

APPENDIX

INLAND  
RAIL 

P

# Operational Railway Noise and Vibration Technical Report

Part 2 of 2

HELIDON TO CALVERT ENVIRONMENTAL IMPACT STATEMENT

APPENDIX

P

# Operational Railway Noise and Vibration Technical Report

## **Appendix A** Sensitive Receptors

HELIDON TO CALVERT ENVIRONMENTAL IMPACT STATEMENT



# APPENDIX A

Sensitive receptors





# HELIDON TO CALVERT

## Sensitive Receptors

200 m

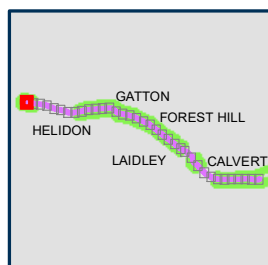
Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4  
Date: 23-Jun-2020  
Author: JG

Scale: 1:7,500

- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Sensitive Receptors (Residential)
- Sensitive Receptors (Other)



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# HELIDON TO CALVERT

## Sensitive Receptors

## APPENDIX A - Map 2 of 36

200 m

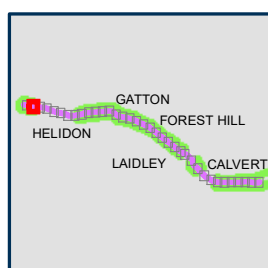
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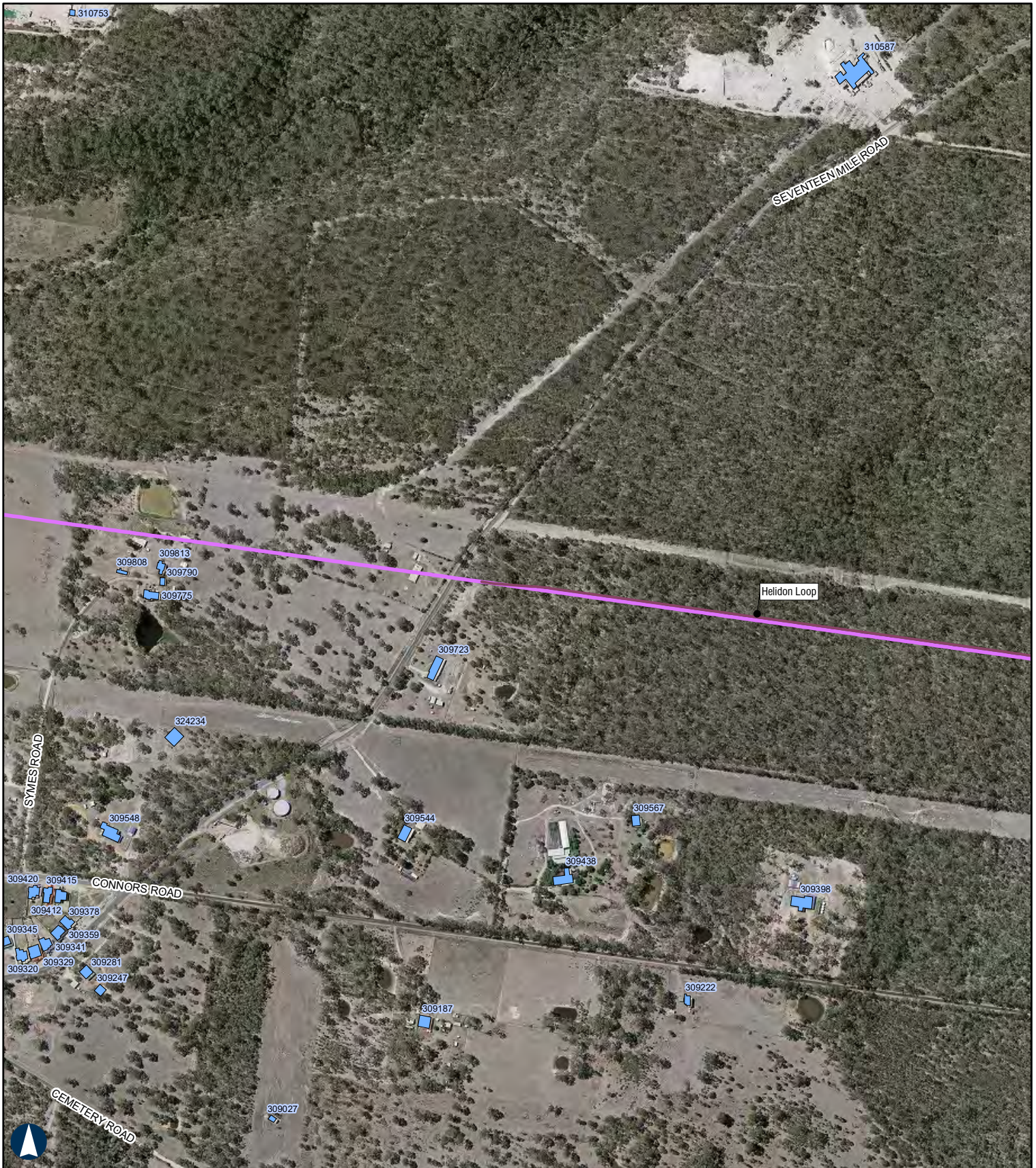
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## Sensitive Receptors

APPENDIX A - Map 3 of 36

200 m

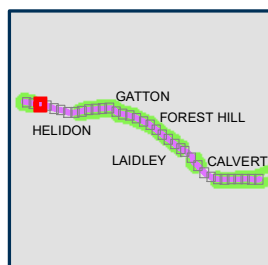
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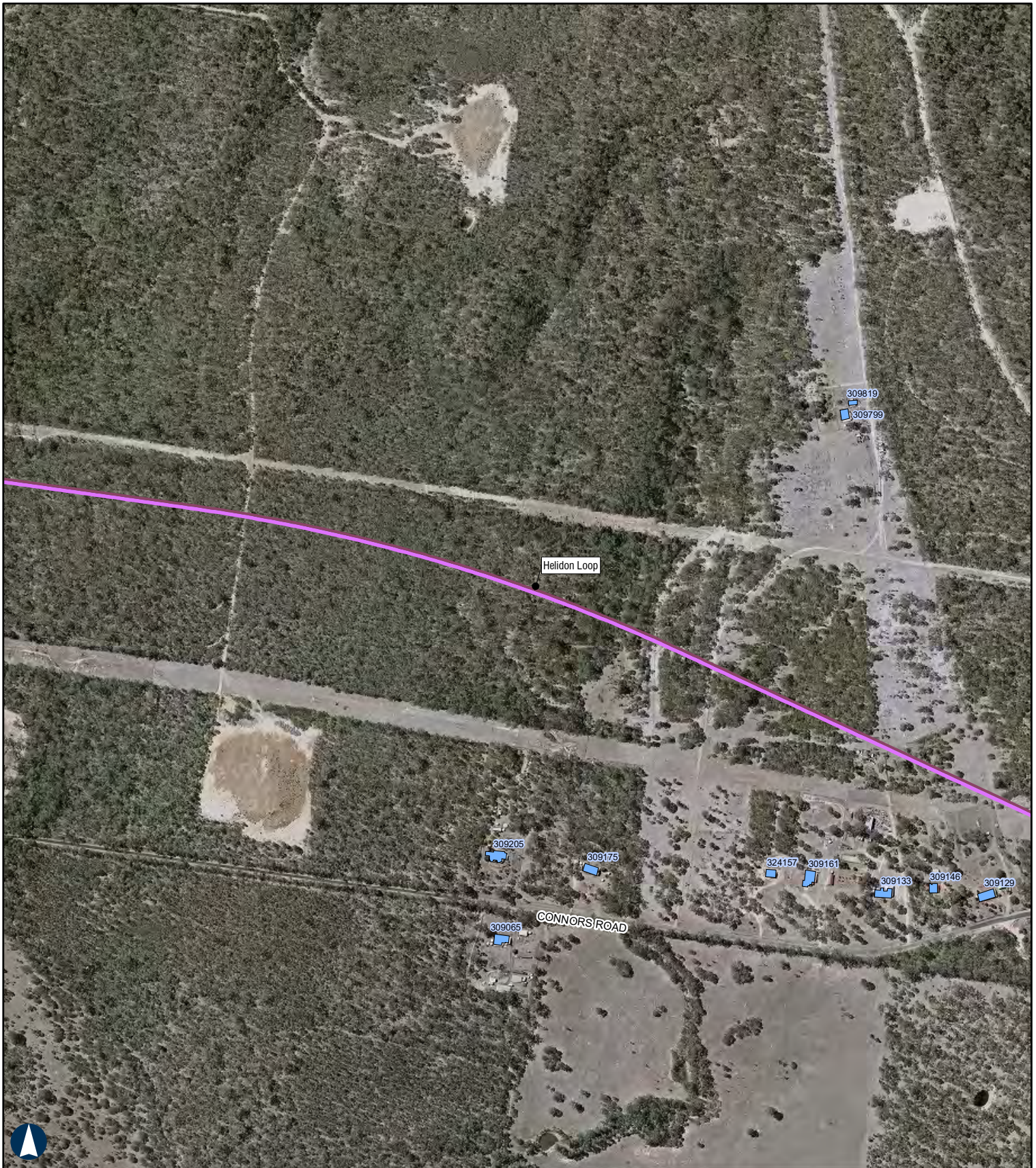
Scale: 1:7,500

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## Sensitive Receptors

APPENDIX A - Map 4 of 36

200 m

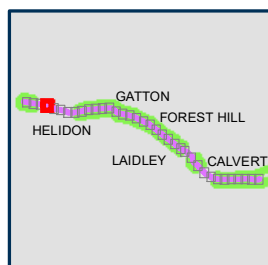
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 Author: JG

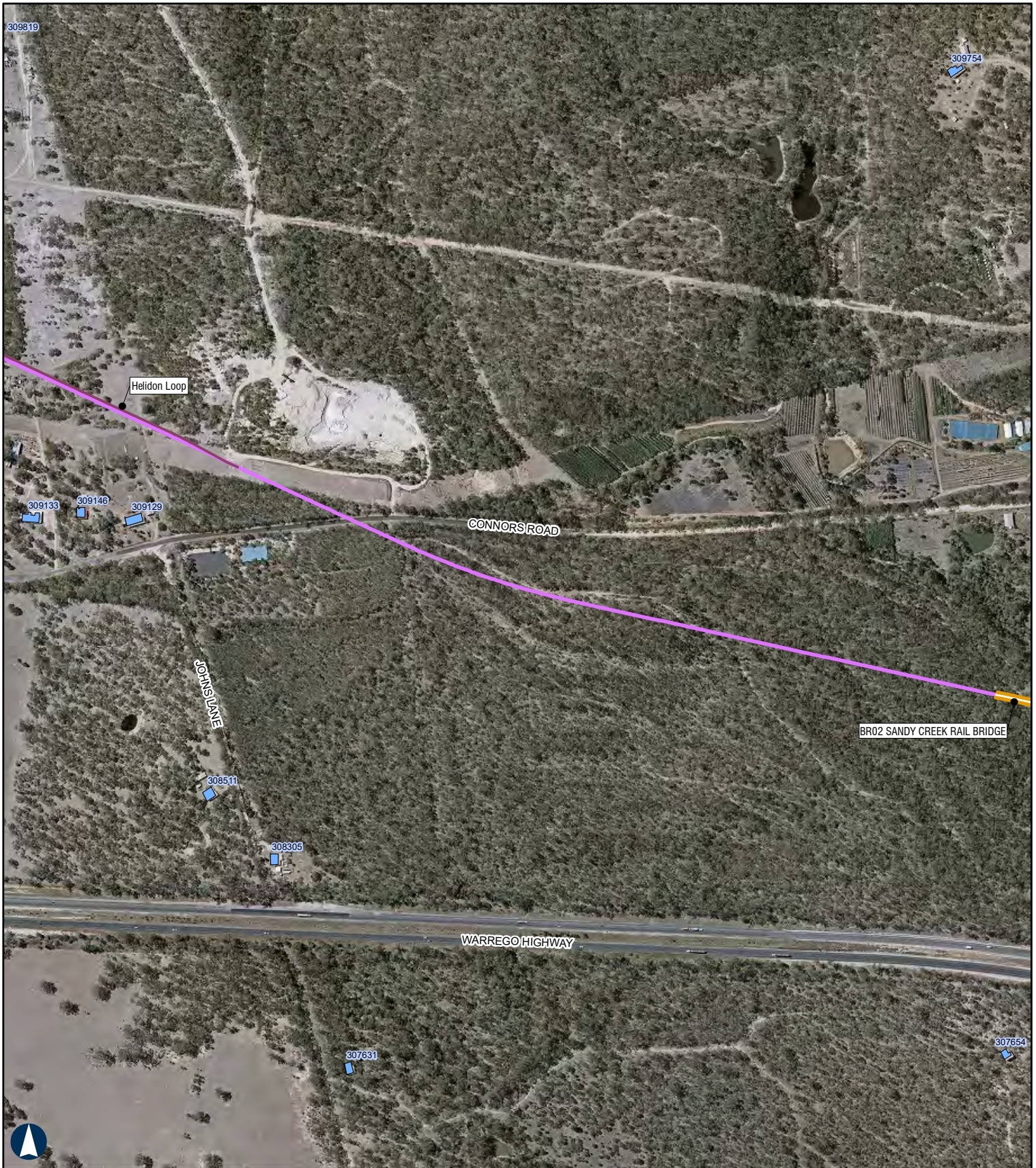
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200 m

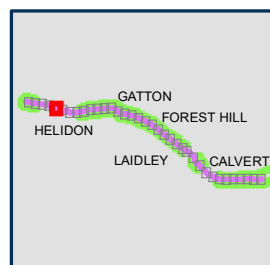
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## Sensitive Receptors

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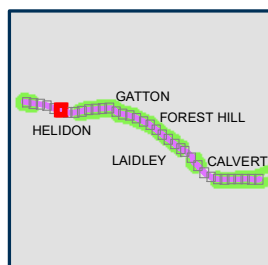
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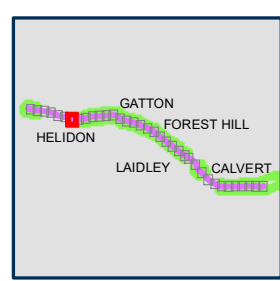
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## Sensitive Receptors

APPENDIX A - Map 8 of 36

200 m

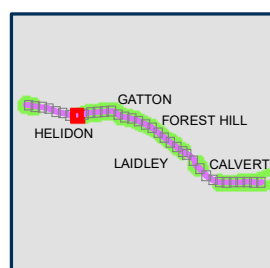
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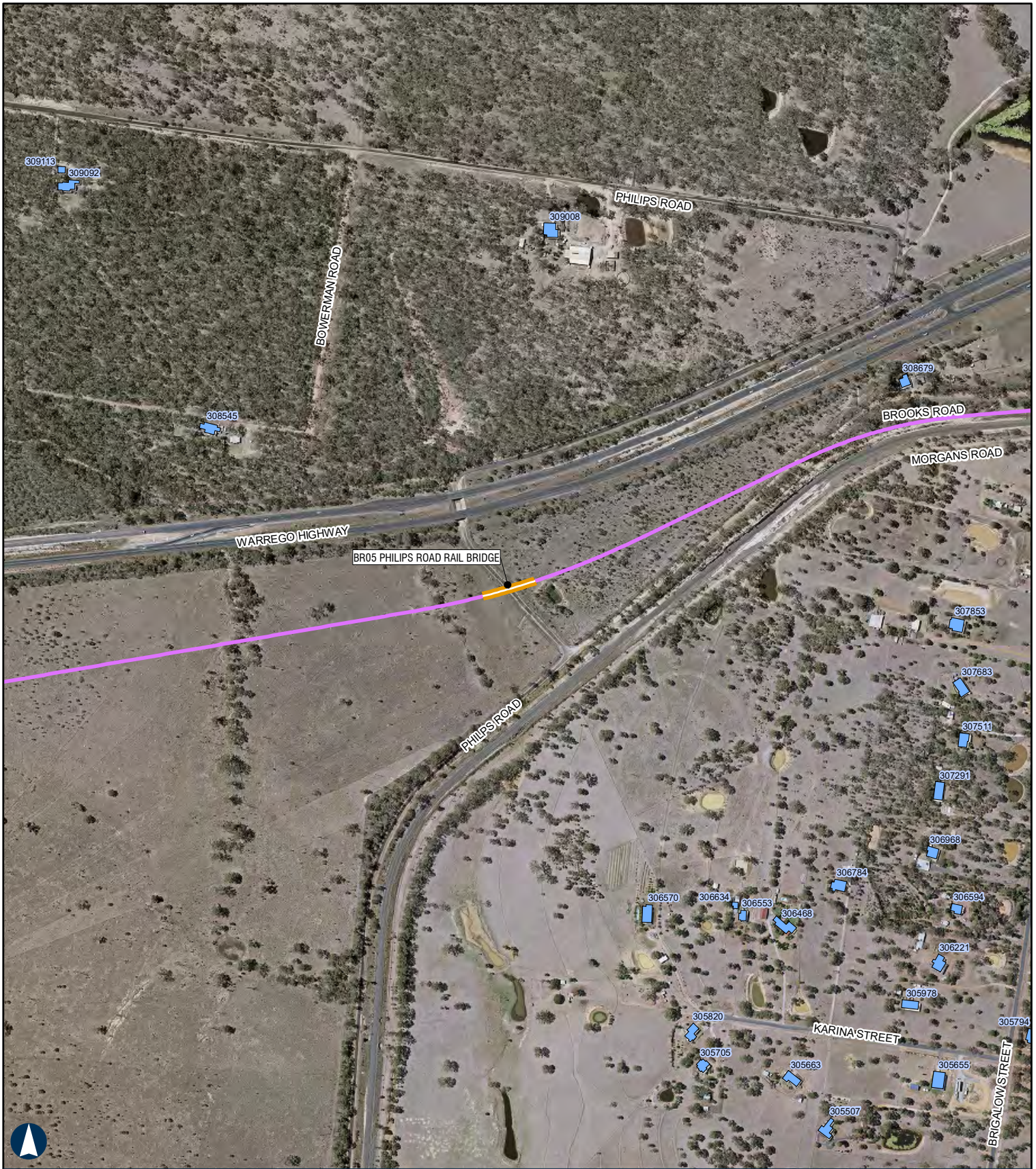
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200 m

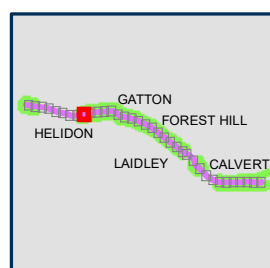
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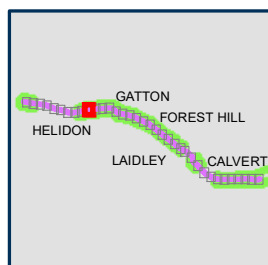
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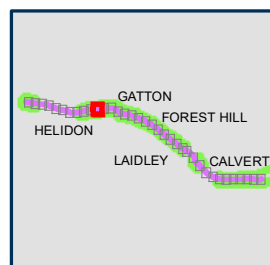
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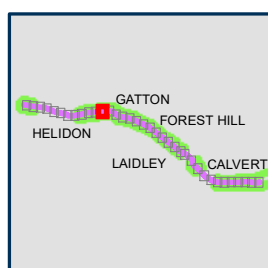
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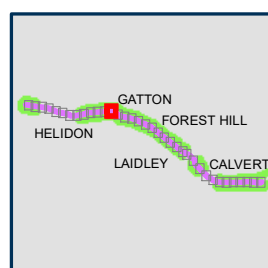
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## Sensitive Receptors

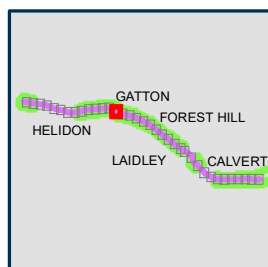
## APPENDIX A - Map 14 of 36

200 m

Coordinate System: GDA 1994 MGA Zone 56

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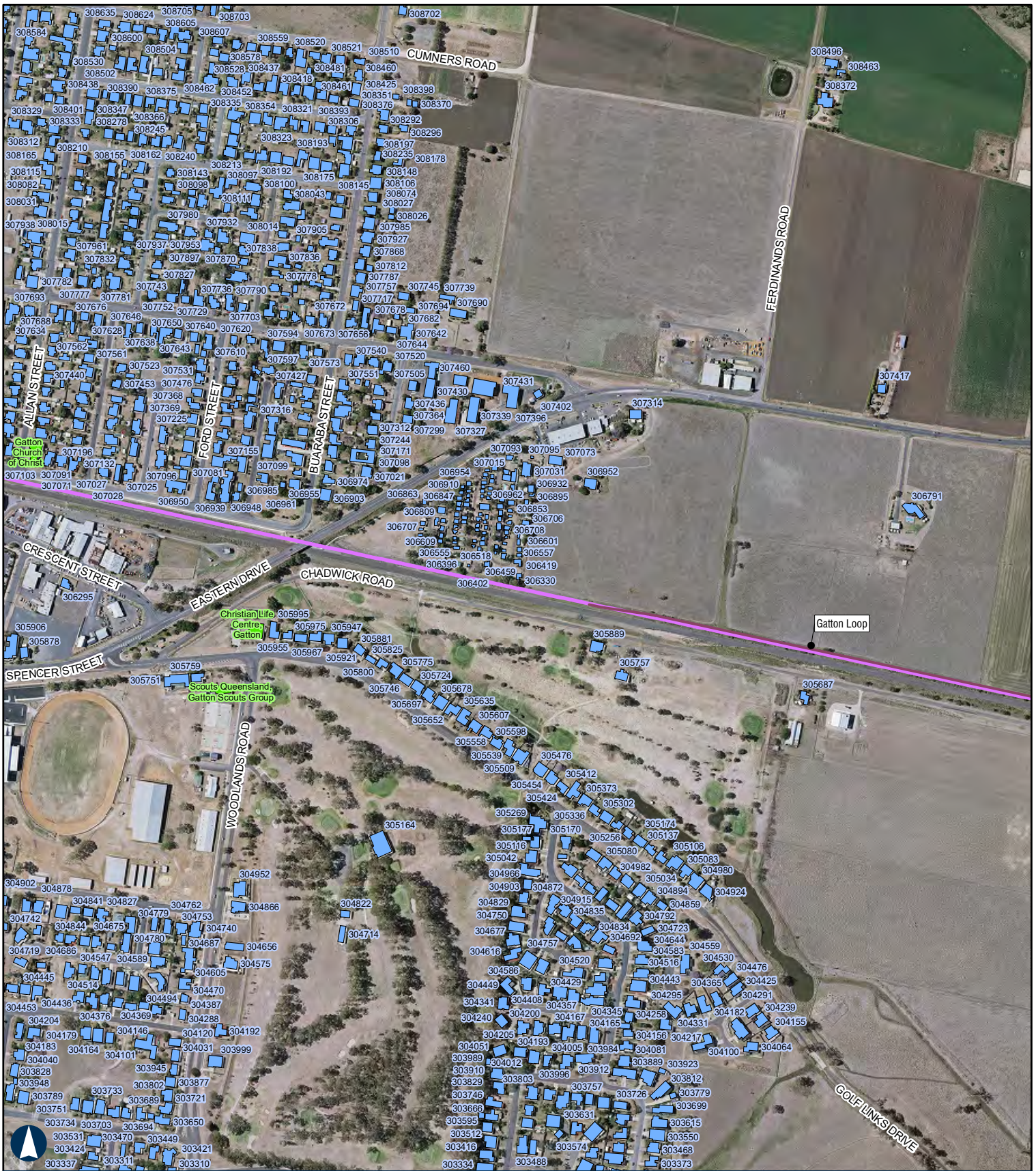
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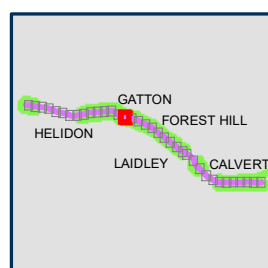
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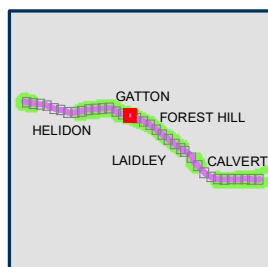
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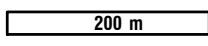
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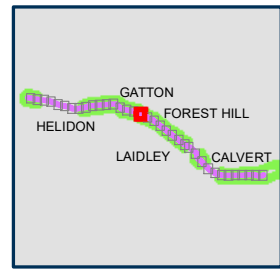
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## Sensitive Receptors

APPENDIX A - Map 18 of 36

200 m

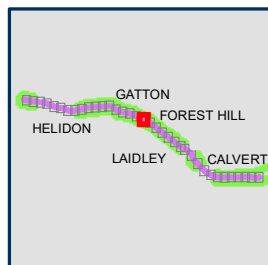
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APPENDIX A - Map 19 of 36

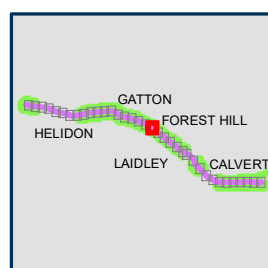
200 m

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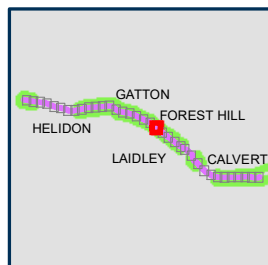
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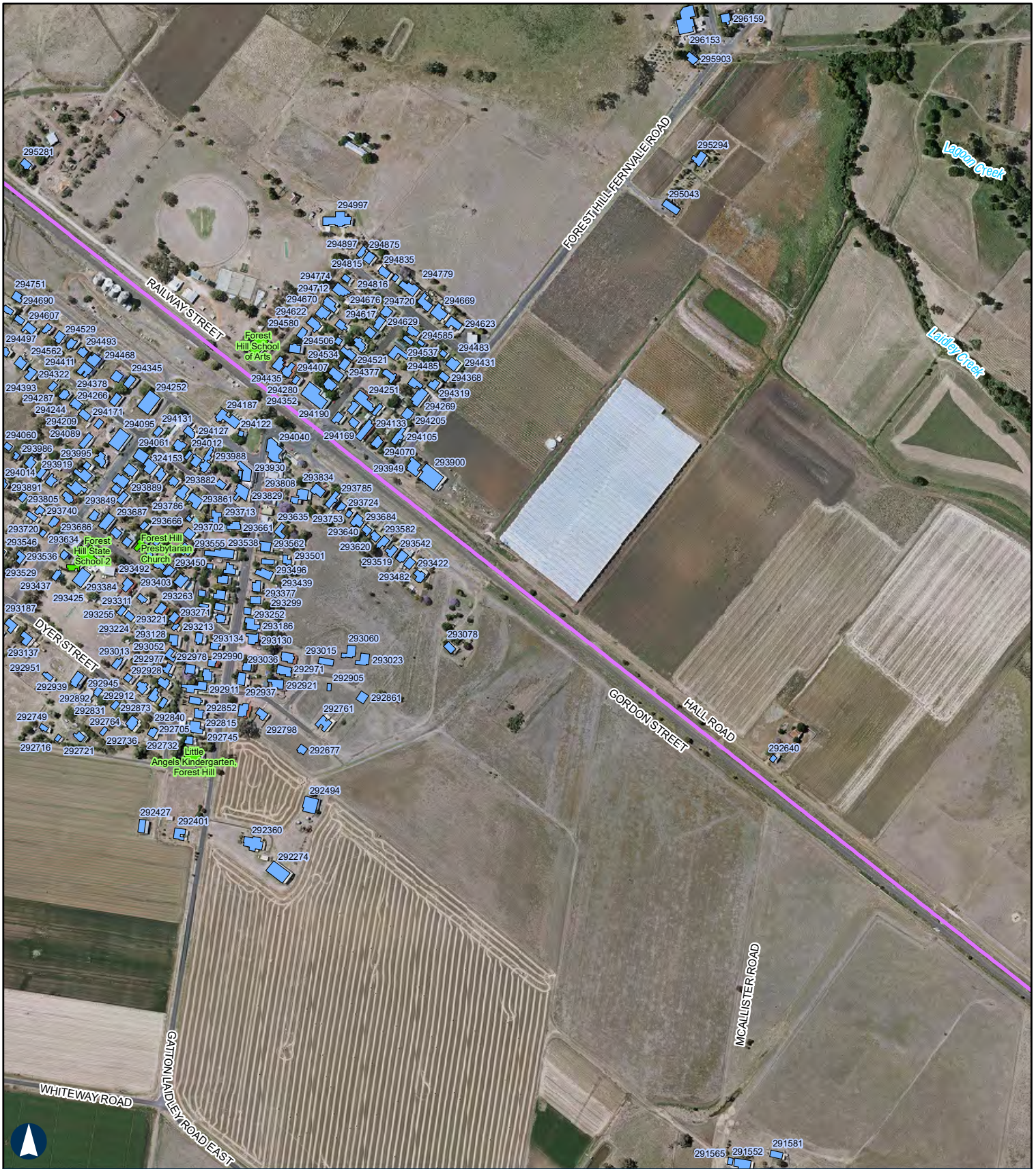
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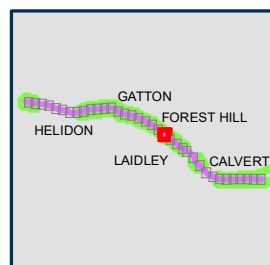
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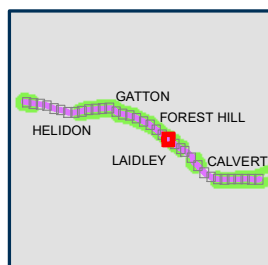
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 Scale: 1:7,500

- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Sensitive Receptors (Residential)
- Sensitive Receptors (Other)



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# HELIDON TO CALVERT

## Sensitive Receptors

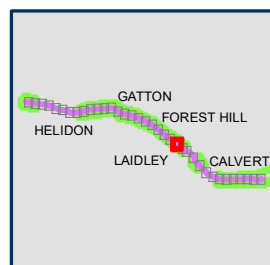
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Coordinate System: GDA 1994 MGA Zone 56

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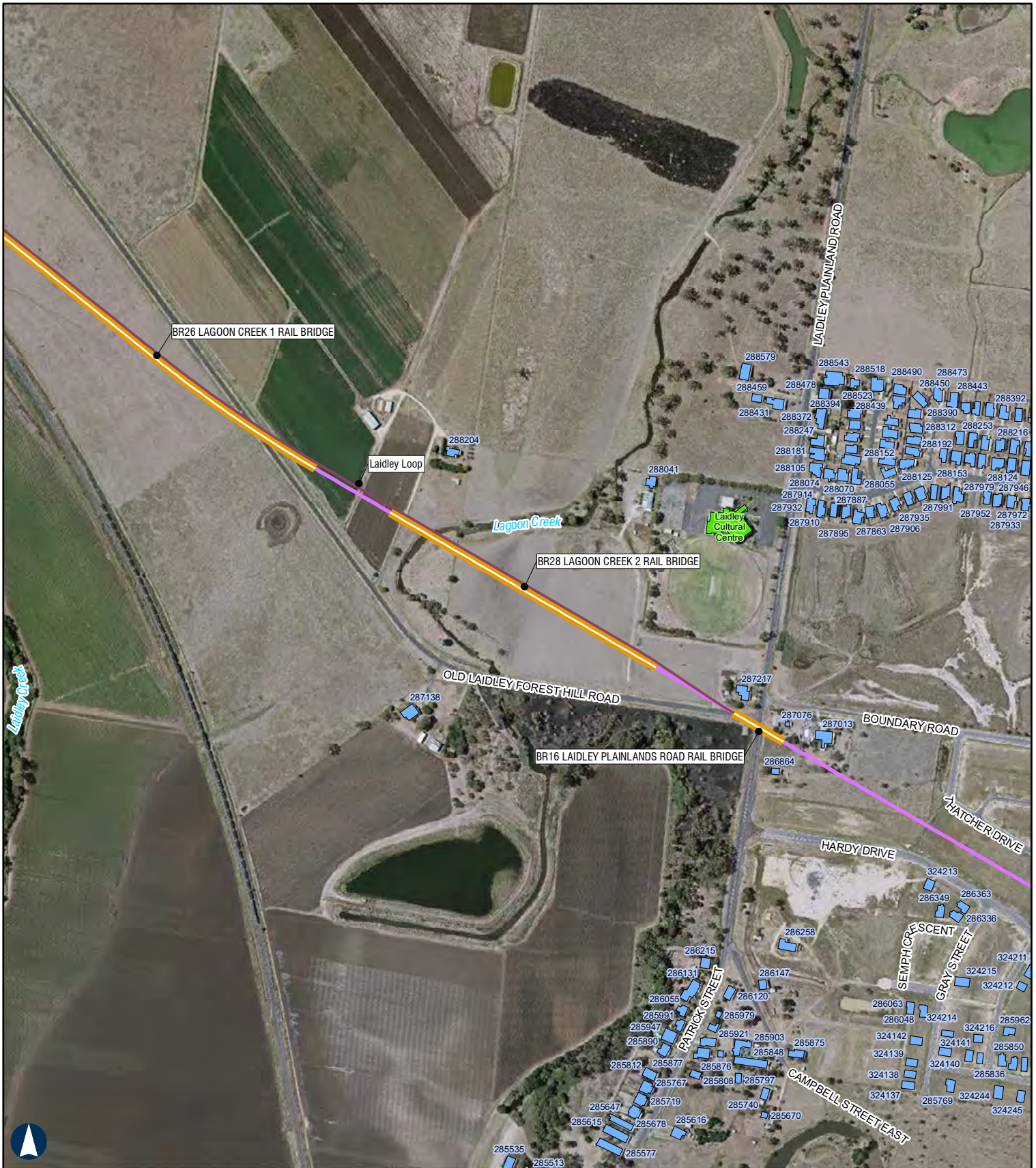
Paper: A4  
 Date: 23-Jun-2020  
 Author: JG  
 Scale: 1:7,500

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## Sensitive Receptors

## APPENDIX A - Map 24 of 36

200 m

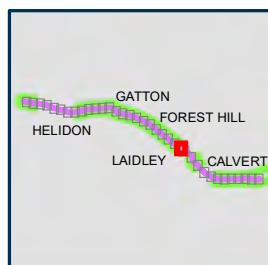
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Date: 01/02/2021  
Author: JG

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## Sensitive Receptors

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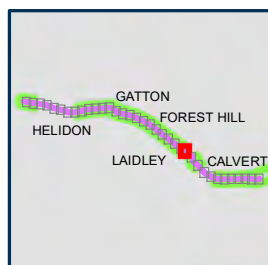
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## Sensitive Receptors

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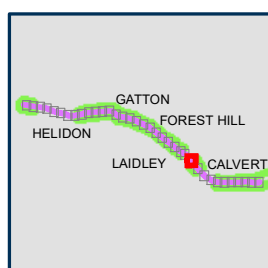
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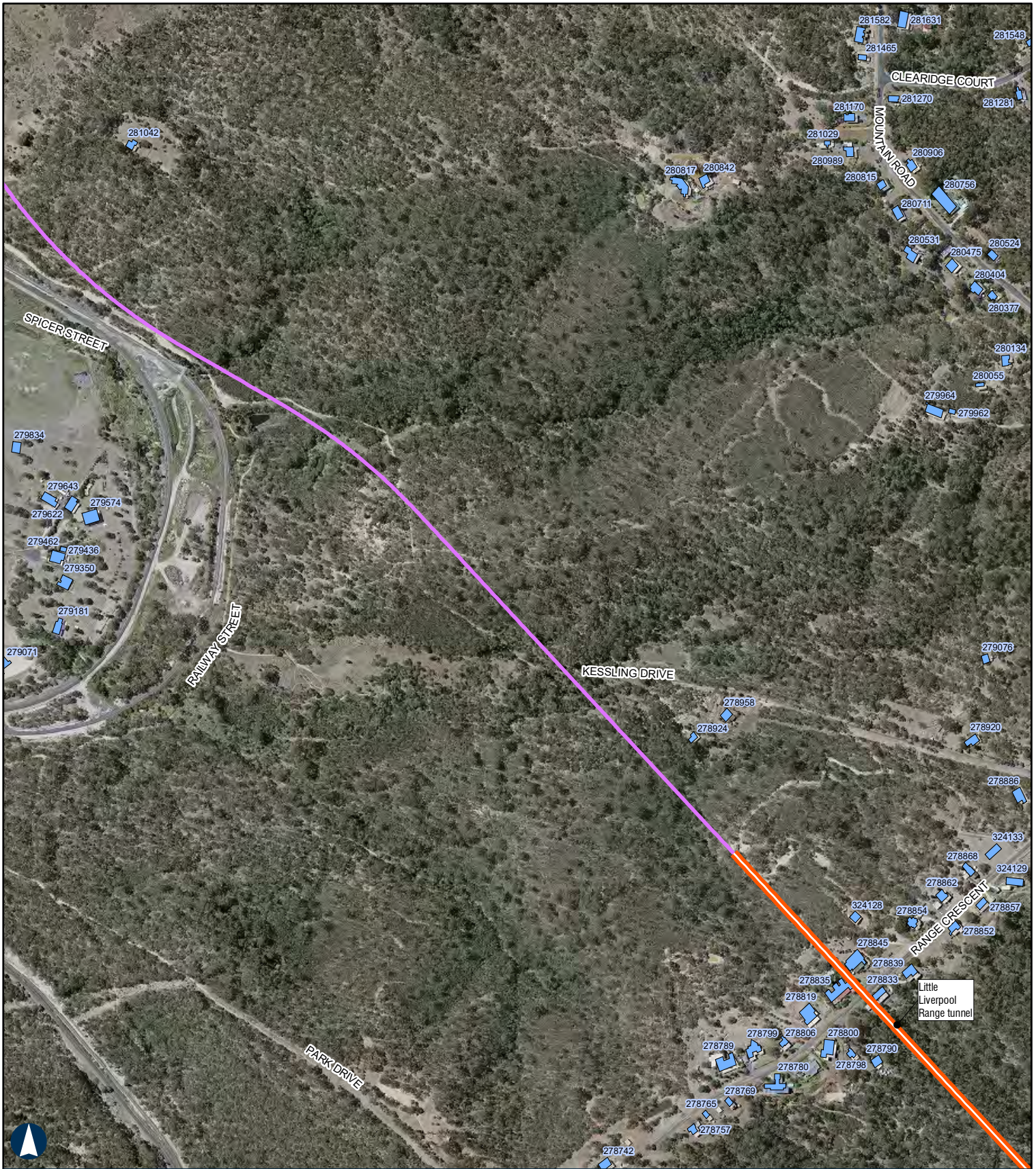
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- Project Extent
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## Sensitive Receptors

200 m

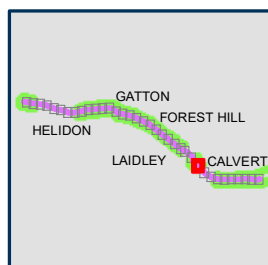
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## Sensitive Receptors

APPENDIX A - Map 28 of 36

200 m

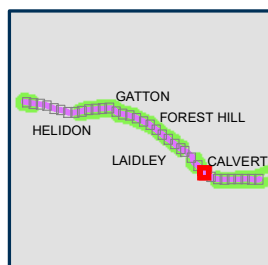
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 Author: JG

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- Project Extent
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## Sensitive Receptors

200 m

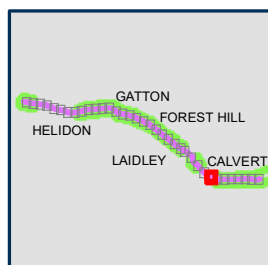
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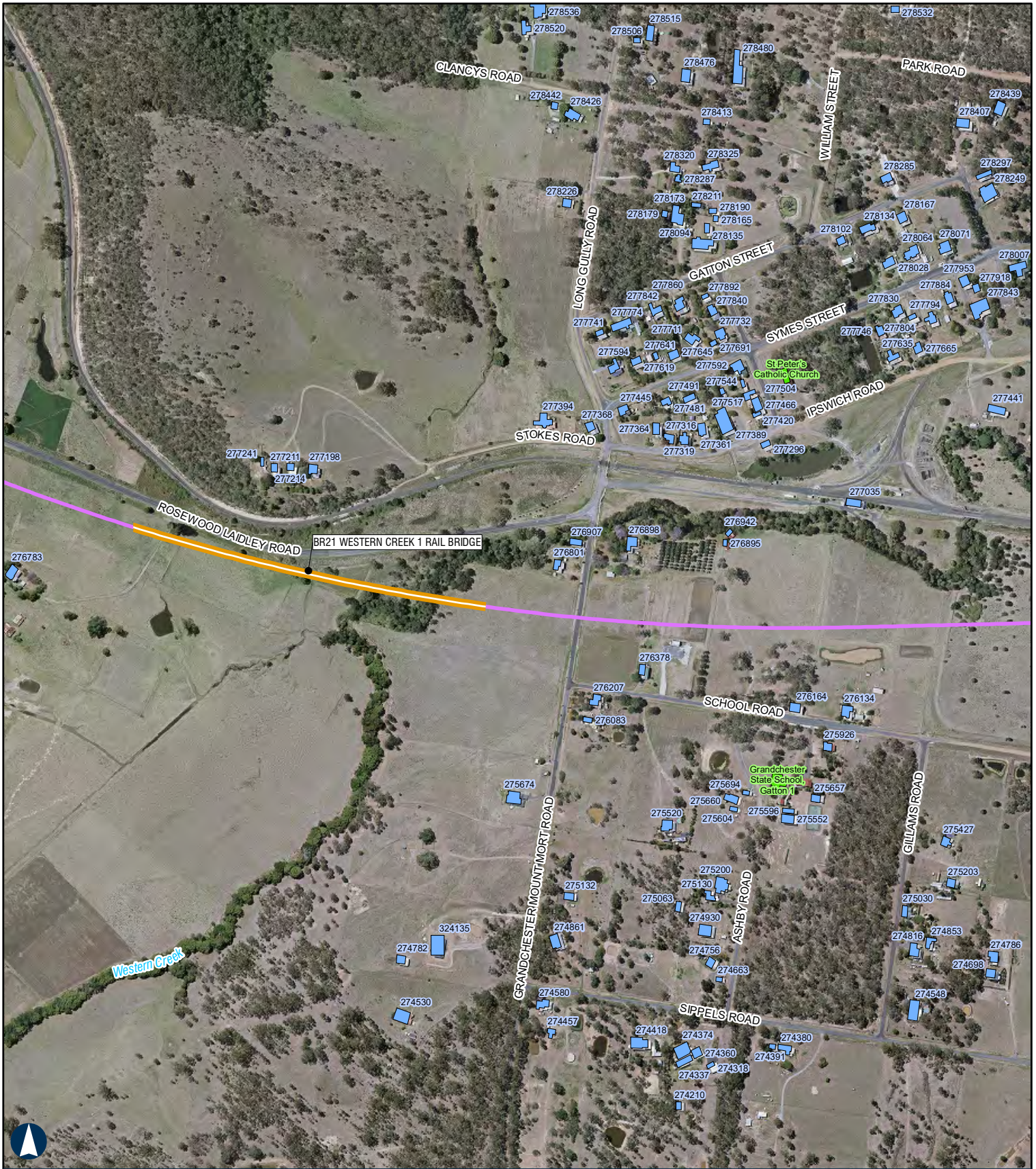
Scale: 1:7,500

- Project Extent
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## Sensitive Receptors

## APPENDIX A - Map 30 of 36

200 m

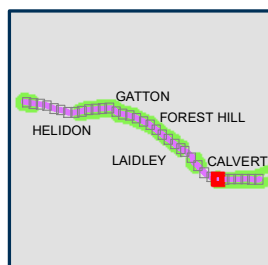
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Author: JG

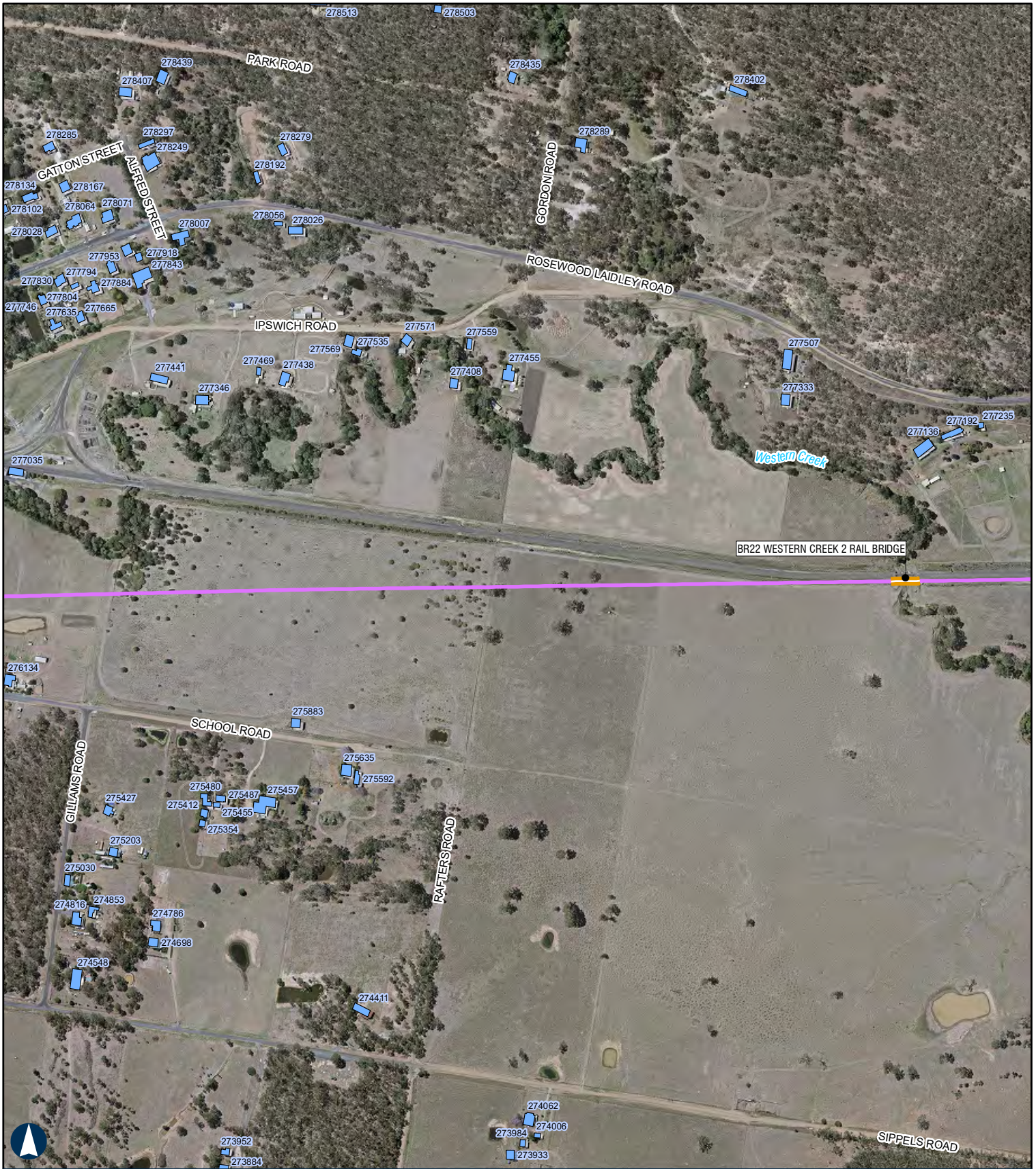
Scale: 1:7,500

- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Sensitive Receptors (Residential)
- Sensitive Receptors (Other)



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**HELIDON TO CALVERT** Sensitive Receptors APPENDIX A - Map 31 of 36

200 m

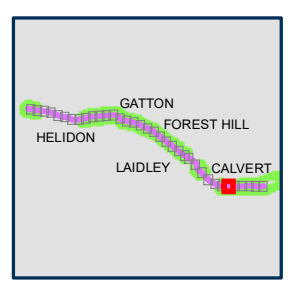
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- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- ▭ Bridges and Viaducts
- ▭ Little Liverpool Range tunnel
- ▭ Sensitive Receptors (Residential)
- ▭ Sensitive Receptors (Other)



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## Sensitive Receptors

200 m

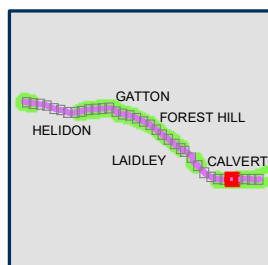
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## Sensitive Receptors

200 m

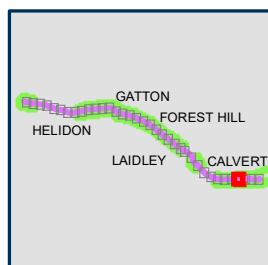
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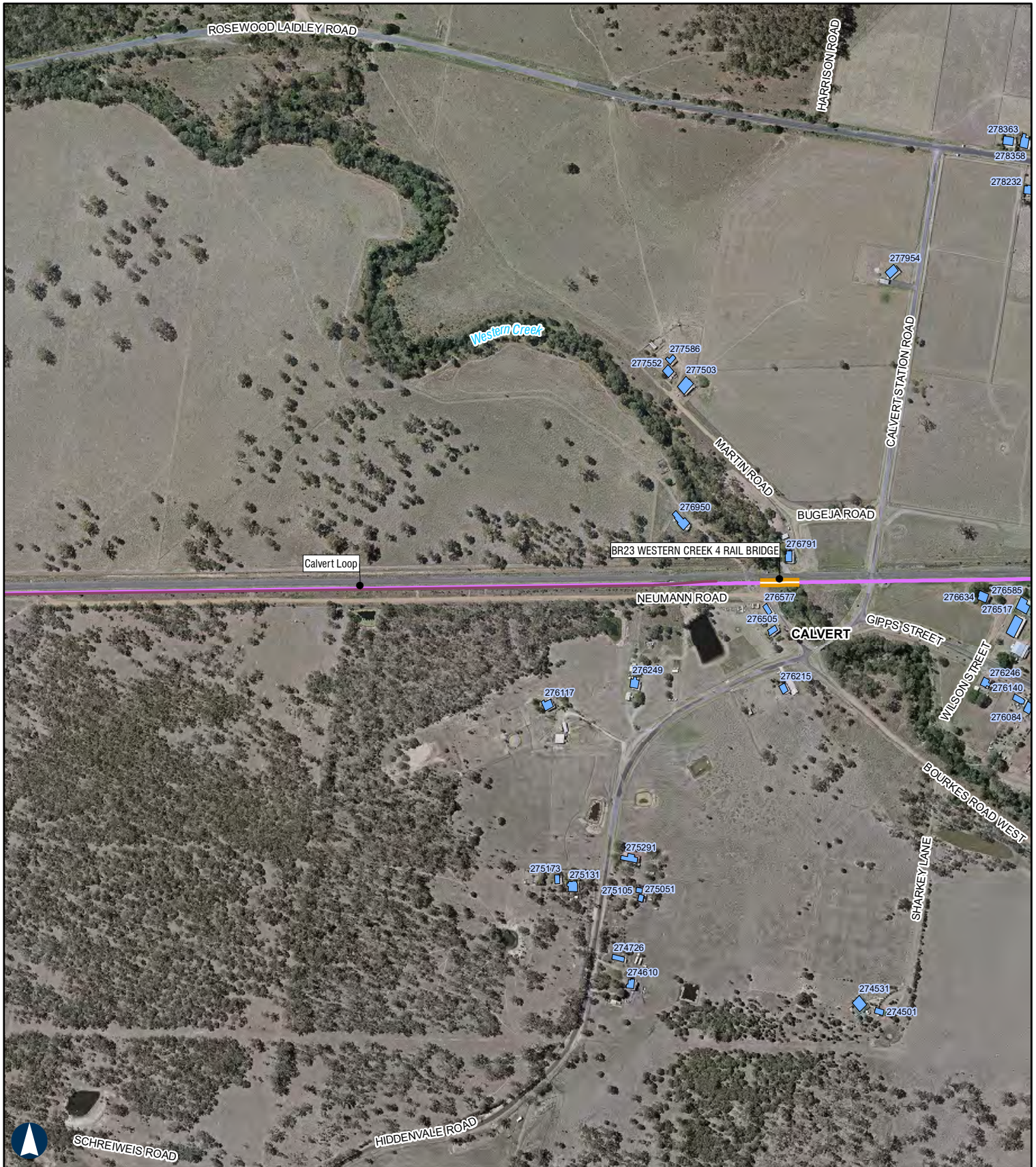
Scale: 1:7,500

- Project Extent
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## Sensitive Receptors

APPENDIX A - Map 34 of 36

200 m

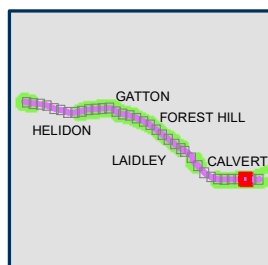
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## Sensitive Receptors

APPENDIX A - Map 35 of 36

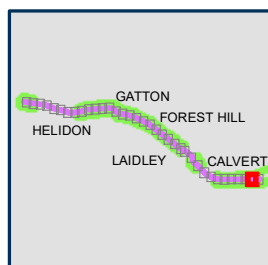
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 Author: JG  
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- Project Extent
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- Rail Alignment/Centreline
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- Little Liverpool Range tunnel
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- Sensitive Receptors (Other)



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## Sensitive Receptors

APPENDIX A - Map 36 of 36

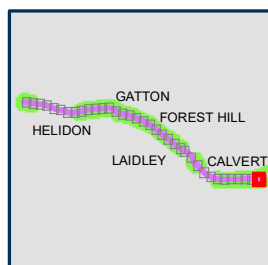
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Coordinate System: GDA 1994 MGA Zone 56

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- Sensitive Receptors (Other)



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APPENDIX

P

# Operational Railway Noise and Vibration Technical Report

## **Appendix B** Noise Prediction Model Verification (Queensland)

HELIDON TO CALVERT ENVIRONMENTAL IMPACT STATEMENT



# APPENDIX B

Noise prediction model verification (Queensland)



## Overview

The level and character of railway noise within the local environment is specific to the rollingstock operations, condition of the rails and the daily rail traffic. Because of the wide range in variability of these factors, noise prediction models for railway infrastructure are commonly developed from a database of verified source noise emission levels for the rollingstock.

Organisations such as TfNSW and QR provide train noise emission databases for the use in noise modelling and railway noise impact assessments. A similar verified noise emission database has been adopted for the Inland Rail project (refer **Table 26** of this report).

The methodology to predict railway noise within the environment adjacent to the Inland Rail project has also been verified with reference to existing railway noise levels monitored by SLR at sections of existing QR West Moreton System rail corridor.

The details of the railway noise monitoring and noise model verification in three townships in Queensland are provided in the following sections. Whilst the specific verification sites are outside the Project study area, the outcomes of the verification are reliable for the verification of the noise model and modelling methodology.

## Noise monitoring locations and methodology

The noise monitoring locations were selected based on the following criteria, designed to provide a consistent approach across the noise monitoring locations:

- At monitoring sites adjacent to the rail line(s) that could be safely and regularly accessed without requiring entry to the rail corridor.
- Generally, locations were within 50 m of the rail corridor to be representative of the nearest sensitive receptors that align the rail corridor and to be close enough to limit the potential influence of local weather conditions.
- Where the track was generally straight and observed to be in relatively good condition. This requirement limited the potential influence of unique factors such as curving noise or prominent track wear which can substantially increase localised rail noise levels.
- Where daily rail traffic was comparable to the proposed rail movements on Inland Rail
- Railway operations were predominately heavy rail traffic (coal and freight trains) and the locomotives were expected to generally be at a constant speed to minimise potential for discrete events such as braking or acceleration (high notch).

Railway noise levels for the daily existing trains movements were monitored at five individual locations at the townships of Gatton, Forest Hill and Calvert, as summarised in **Table B1** and presented in **Figure B1**.

**Table B1 Noise monitoring locations in QLD**

SLR ID	Location	Monitoring dates	Equipment <sup>1,2</sup>
1	Smithfield Road, Gatton 40 m from the outer rail	20 to 27 March 2019	SVAN 957 noise logger (27580)
2	Chadwick Road, Gatton 17 m from the outer rail	20 to 27 March 2019	SVAN 957 noise logger (23241)
3	Railway Street, Forest Hill 15 m from the outer rail	20 to 27 March 2019	NGARA noise logger (8781A5)
4	Gordon Street, Forest Hill 18 m from the outer rail	20 to 27 March 2019	NGARA noise logger (8780FF)
5	Newcastle Street, Calvert 78 m from the outer rail	21 to 27 March 2019	NGARA noise logger (8780AF)

Note 1 All monitoring equipment complies with the requirements of Australian Standard AS1259-1990 (part 1 and 2) and IEC 61672.

Note 2 All equipment was calibrated before and after the monitoring period with any drift in signal less than 1 dB.





## QLD NOISE MODEL VERIFICATION

FIGURE B1 - Map 1 of 3

200 metres

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- Noise Monitoring Locations
- Rail Alignment/Centreline
- Bridges and Viaducts
- Watercourses

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## QLD NOISE MODEL VERIFICATION

FIGURE B1 - Map 2 of 3

200 metres

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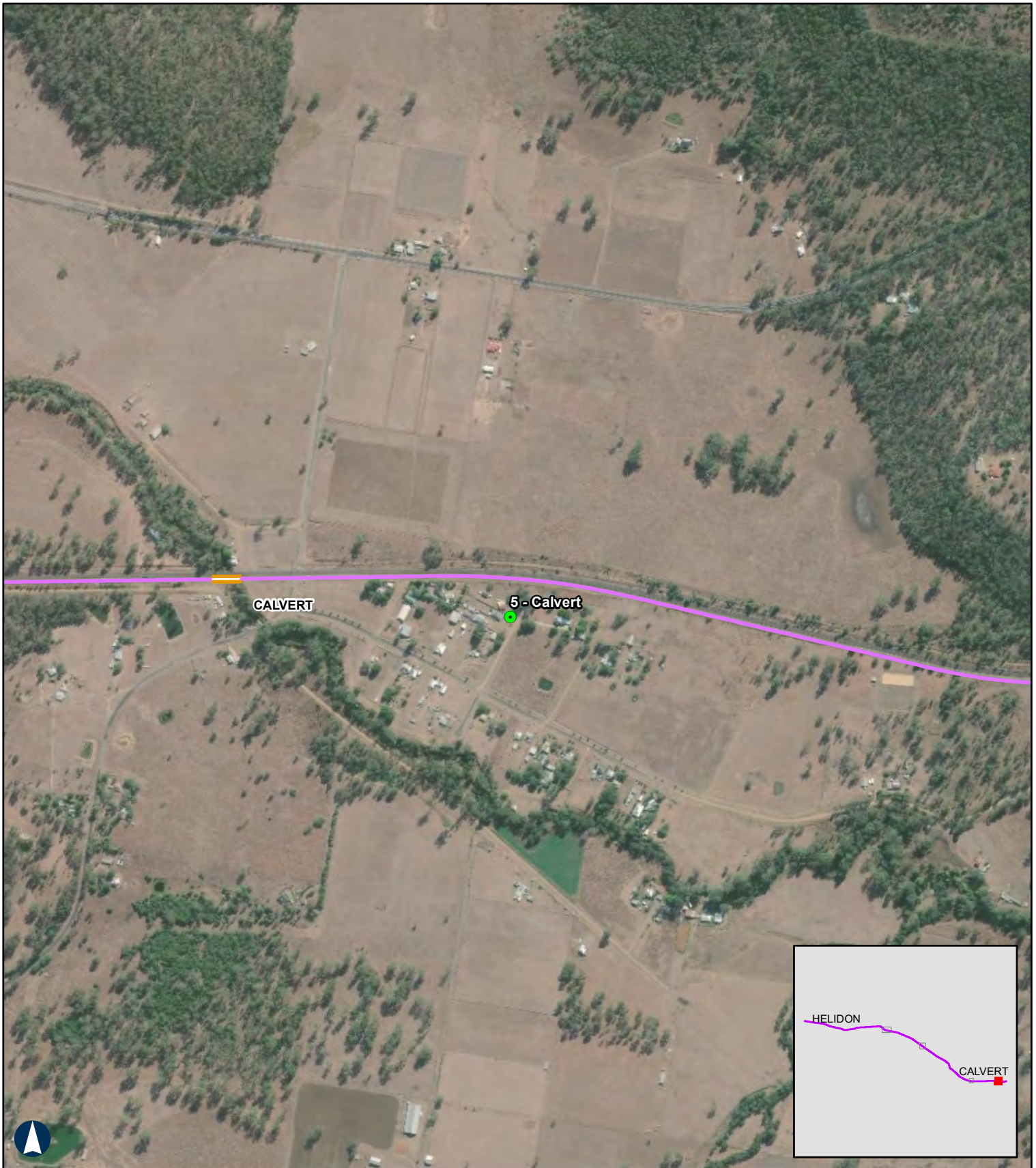
- Noise Monitoring Locations
- Rail Alignment/Centreline
- Bridges and Viaducts
- Watercourses

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 Date: 24-Jun-2020  
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## QLD NOISE MODEL VERIFICATION

FIGURE B1 - Map 3 of 3

200 metres

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To avoid the influence of surrounding buildings and structures on the railway noise levels, the railway noise levels were monitored in the free-field environment at 1.5 m above ground level for a period of seven consecutive days at each location. The noise levels were measured at intervals of 1/10<sup>th</sup> of a second in order to isolate the discrete noise contribution from the train passby events.

The noise monitoring data was analysed to determine the noise emission level and duration of each clearly discernible train passby event. Applying principles from ISO 3095, the noise levels were analysed to define each train passby event. The analytical process for each location adopted the following approach:

- Identifying all noise level events above an initial threshold and sustained for a defined period of time; this was site specific and provided a first pass filter to identify likely train passby events.
- The length of each event was identified from the start and end points where the noise levels were within 10 dBA of the ambient noise level.
- Each event was visually inspected to identify statistically valid train profiles i.e. a train passby signature that can be used to refine the processing of identifying each passby event.
- The audio data for each identified noise event was reviewed to confirm it was a train passby and no other, erroneous, activity nearby to the monitoring location.

### Monitored daily rail noise levels

The highest daily L<sub>Aeq</sub> and L<sub>Amax</sub> railway noise levels at each monitoring location are detailed in the following table. The L<sub>Aeq</sub> and L<sub>Amax</sub> noise levels are the highest noise levels reported over a 24-hour period.

The L<sub>Amax</sub> railway noise levels have been determined as the 95<sup>th</sup> percentile in line with ARTC’s noise assessment criteria for Inland Rail. The 24-hour L<sub>Amax</sub> noise level has been reported as the Single Event Maximum (SEM), which is the arithmetic average of the 15 highest L<sub>Amax</sub> passby noise levels in a 24-hour period or the arithmetic average of all L<sub>Amax</sub> noise levels where there were fewer than 15 train passbys in a 24-hour period. The L<sub>Amax</sub> noise levels exclude the influence from train horns and level crossing alarm bells.

Weather data was referenced from the nearest Bureau of Meteorology weather station at Gatton, station number 94562. The local weather conditions, principally wind speed and precipitation, were found to not have influenced the monitoring noise levels for the train passby events. This was also, in part, due to the proximity of the monitoring locations to the rail lines.

The monitored railway noise levels at the locations in Gatton, Forest Hill and Calvert are detailed in **Table B2**.

**Table B2 Monitored daily railway noise levels**

Monitoring location	Monitored railway noise levels, dBA				
	Daytime	Night-time	Daytime	Night-time	24-hour
	L <sub>Aeq,15hr</sub>	L <sub>Aeq,9hr</sub>	L <sub>Amax</sub> <sup>1</sup>	L <sub>Amax</sub> <sup>1</sup>	SEM <sup>2</sup>
ID 1 Gatton	56.0	56.7	88.6	85.7	83.6
ID 2 Gatton	55.4	56.0	85.9	87.6	83.7
ID 3 Forest Hill	61.2	59.2	88.1	88.1	86.4
ID 4 Forest Hill	59.7	61.1	88.9	89.7	86.3
ID 5 Calvert	47.0	47.8	77.4	78.3	71.6

Note 1 Maximum railway noise levels determined as the 95<sup>th</sup> percentile L<sub>Amax</sub> noise level per period.

Note 2 Single Event Maximum as defined by Section 3.1.3 of the DTMR Interim Guideline, Operational Railway Noise and Vibration, March 2019.



The analysis of the monitored noise levels and audio recordings for the train passbys, along with on-site observations, identified the following:

- At ID 1 in Gatton, the nearby steel framed railway bridge did not substantially influence the rolling noise, when compared to the adjacent surface track sections. The trains speed of approximately 50 km/h in Gatton may not have been sufficient for the bridge structure to be a source of elevated rolling noise.
- The  $L_{Amax}$  noise levels in Gatton were, at times, influenced by trains accelerating using short-lived higher notch settings as the train departed the centre of Gatton. The specific notch settings and acceleration was dependent on the driver and varied for each train.
- The monitored noise levels vary by 1 dBA to 2 dBA between the two monitoring locations at Forest Hill and demonstrate rail noise levels are generally consistent either side of the immediate rail corridor.
- At Calvert, whilst the train passbys were clearly audible, the ambient noise levels and local environment (buildings and vegetation) had an influence on the ability to isolate the complete duration, and  $L_{Aeq}$  noise level, of some train passbys events. The  $L_{Amax}$  noise levels were clearly defined.
- At all monitoring locations the SEM was in the order of 1 dBA to 6 dBA lower than the daytime or night-time 95<sup>th</sup> percentile  $L_{Amax}$  noise levels.

### Noise modelling

To enable verification of the monitored noise levels, the SoundPLAN noise modelling developed for the Inland Rail project, as discussed in **Section 6** of this report, was applied to calculate railway noise levels at each noise monitoring location.

A summary of the key noise modelling data and methodologies for the existing railway noise levels is provided in **Table B3**.

**Table B3 Noise modelling inputs**

Noise model attribute	Source data/ modelling approach
Daily train movements	Refer to Table C1 for the QR West Moreton System
Rail line speeds	Referencing the monitored data the train speeds were estimated as 50 km/h in Gatton, 60 km/h in Forest Hill and Calvert.
Railway acoustic corrections	Nil, all track was straight with no tight-radius curves, turnouts etc. within 100 m of each monitoring location.
Track strings	The alignment of the existing rail tracks was referenced from publicly available datasets and rail corridor designs supplied by ARTC.
Consist information	All trains modelled with consist 850 m in length
Passenger rail traffic	There were no passenger rail movements on the QR West Moreton System
Local environment	3-dimensional digital terrain models were developed for the existing environment at each monitoring location. Ground conditions were modelled as hard ground (ground absorption coefficient of 0.0).



Noise model attribute	Source data/ modelling approach			
Locomotive source noise emission levels	The rollingstock classes were determined from on-site observations and datasets of the rollingstock in use on each rail line. The following noise emission levels were assigned based on the Inland Rail noise emission database, with reference to comparable datasets developed by TfNSW and QR.			
	Rollingstock category	Reference length	Reference noise level, dBA	
			SEL	L <sub>Amax</sub>
	<b>QR West Moreton System, Queensland</b>			
	82 Class locomotive (two per train) (representative of typical coal train locomotives)	22 m	83	89
NR Class locomotive (two per train) (representative of typical freight locomotives)	22 m	85	90	
Note All noise levels are referenced at a distance of 15 m for a speed of 80 km/h.				

### Noise model verification

The predicted and monitored L<sub>Aeq</sub> and L<sub>Amax</sub> railway noise levels at each location were compared as part of the noise model verification, as detailed in **Table B4**. The model is determined to be verified to a suitable accuracy where the predicted noise levels were within ±2 dBA of the measured railway noise levels.

The modelled locomotive noise emissions at location ID 1 in Gatton included a +4 dBA adjustment to the modelled source levels to account for the intermittent localised increases in notch setting which were observed and monitored as trains had passed through the centre of Gatton.

**Table B4 Modelled railway noise levels**

Monitoring location	Railway noise levels, dBA			
	Daytime	Night-time	Daytime	Night-time
	L <sub>Aeq,15hr</sub>	L <sub>Aeq,9hr</sub>	L <sub>Amax</sub> <sup>1</sup>	L <sub>Amax</sub> <sup>1</sup>
<b>West Moreton System, QLD</b>				
ID 1 Gatton	57.4	57.5	88.5	88.6
ID 2 Gatton	59.5	59.8	91.6	91.6
ID 3 Forest Hill	60.9	61.2	91.2	91.2
ID 4 Forest Hill	60.8	61.1	91.1	91.1
ID 5 Calvert	52.8	53.2	79.3	79.3

Note 1 Daytime and Night-time L<sub>Amax</sub> is the 95<sup>th</sup> percentile L<sub>Amax</sub> rail noise level

The monitored and modelled L<sub>Aeq</sub> and L<sub>Amax</sub> noise levels at each location were compared, as detailed in **Table B5**. The noise model validation was determined for all five noise monitoring locations. Because the monitored L<sub>Aeq</sub> noise levels at Calvert were at times influenced by the local environment the validation was also undertaken for the locations at Gatton and Forest Hill (total four monitoring locations).

Overall, the L<sub>Aeq</sub> noise levels verify within 2 dBA of the monitored L<sub>Aeq</sub> noise levels during the daytime and night-time periods and meets DTMR guidelines on transport noise model validation. The L<sub>Amax</sub> noise levels are a relatively minor 0.5 dBA to 1 dBA more than the desired 2 dBA verification and this is discussed further after **Table B5**. At the EIS stage it is satisfactory to over-predict the railway noise levels to provide conservatism in both the assessment of potential noise impacts and the recommendations for potential noise mitigations.



**Table B5 Noise model verification**

Monitoring location	Noise model verification, dBA				
	Daytime	Night-time	Daytime	Night-time	24-hour
	LAeq,15hr	LAeq,9hr	L <sub>Amax</sub> <sup>1</sup>	L <sub>Amax</sub> <sup>1</sup>	SEM <sup>2</sup>
<b>West Moreton System, QLD</b>					
ID 1 Gatton	1.4	0.8	-0.1	2.9	5.0
ID 2 Gatton	4.1	3.8	5.7	4.0	7.9
ID 3 Forest Hill	-0.3	2.0	3.1	3.1	4.8
ID 4 Forest Hill	1.1	0.0	2.2	1.4	4.8
ID 5 Calvert	5.8	5.4	1.9	1.0	7.7
Model validation all locations	2.4	2.4	2.6	2.5	6.0
Model validation locations ID 1,2,3 & 4	1.6	1.7	2.7	2.9	5.6

Note 1 Daytime and Night-time L<sub>Amax</sub> is the 95<sup>th</sup> percentile L<sub>Amax</sub> rail noise level

Note 2 Single Event Maximum level for the L<sub>Amax</sub> railway noise levels.

The following features of the existing railway operations and the noise modelling methodology are considered to have influenced the noise model validation.

- In Gatton the noise monitoring data and on-site observations identify potential for the speed of individual trains to vary depending on the time of day and driver behaviour. The monitored L<sub>Aeq</sub> noise levels are sensitive to variations to factors such as train speed. The noise model assumes a consistent train speed of 50 km/h in Gatton and does not account for individual trains travelling at varying speeds.
- In Forest Hill the train speed was observed to be generally consistent and is suitably replicated by the consistent train speed applied in the noise model.
- The modelling of L<sub>Aeq</sub> noise levels at Calvert does not account for the localised ambient noise which at times influenced the monitored L<sub>Aeq</sub> railway noise levels.

The monitored 95<sup>th</sup> percentile L<sub>Amax</sub> noise levels are less sensitive to outliers than the arithmetically averaged SEM noise levels. Consequently, the noise model, which adopted a consistent L<sub>Amax</sub> noise emission, provided closer validation to the 95<sup>th</sup> percentile L<sub>Amax</sub> than the SEM.



APPENDIX

P

# Operational Railway Noise and Vibration Technical Report

## **Appendix C** Noise and Vibration from Double-stacked Freight Wagons

HELIDON TO CALVERT ENVIRONMENTAL IMPACT STATEMENT



# APPENDIX C

Noise and vibration from double stacked freight wagons



The load on the axles from freight wagons has the potential to influence the noise and vibration emission levels during the train passby event. The load will vary depending on the configuration of single stacked and double stacked containers and the contents of the containers which can vary from empty to the capacity weight.

To investigate the noise and vibration emission levels, SLR conducted a noise and vibration monitoring survey in January 2019 at a section of straight track near to Merriton, approximately 170 km north of Adelaide. The freight trains in the area were known to have both single stacked and double stacked containers on the wagons.

Based on site observations from outside the rail corridor area, the following features of the track were identified:

- The track was single line, on a ballasted track with concrete sleepers with train movements in both directions.
- The depth of the ballast was estimated at 700 mm on clay and sandy top soil.
- Based on site observations the train speeds ranged from 80 km/h to 100 km/h.

During train passby events, noise and vibration levels were monitored simultaneously at six locations (three noise and three vibration) along the track section. A comparison of the noise and vibration level across the whole train passby was made for the trains that had only single stacked containers on the wagons and those trains with a combination of double stacked and single stacked containers. It was noted that no trains had all wagons loaded with double stacked containers and the analysis did not isolate those wagons that were empty or stacked with empty containers.

The noise level over the duration of the train passby events are presented for the three noise monitoring locations (Channel 4, Channel 5 and Channel 6) in **Figure C1**. Spot 2D acoustic intensity measurements confirmed the rail and wheel are key noise sources (and not radiated vibration of containers).

The locomotives at the front of the train are the initial elevated noise levels with the sections of known single stacked and double stacked containers identified thereafter. It can be seen that the noise levels at the three monitoring locations were approximately 2 dBA or less during the passby of the double stacked wagons.

As shown in **Figure C2**, consistent with the measured noise levels, albeit a more marginal difference, the vibration velocity levels (in dBV) are higher with the single stacked container wagons.

It is considered that if a noise emission correction factor were to be applied to the stacking configuration, this would be complicated by many factors in practice, particularly the:

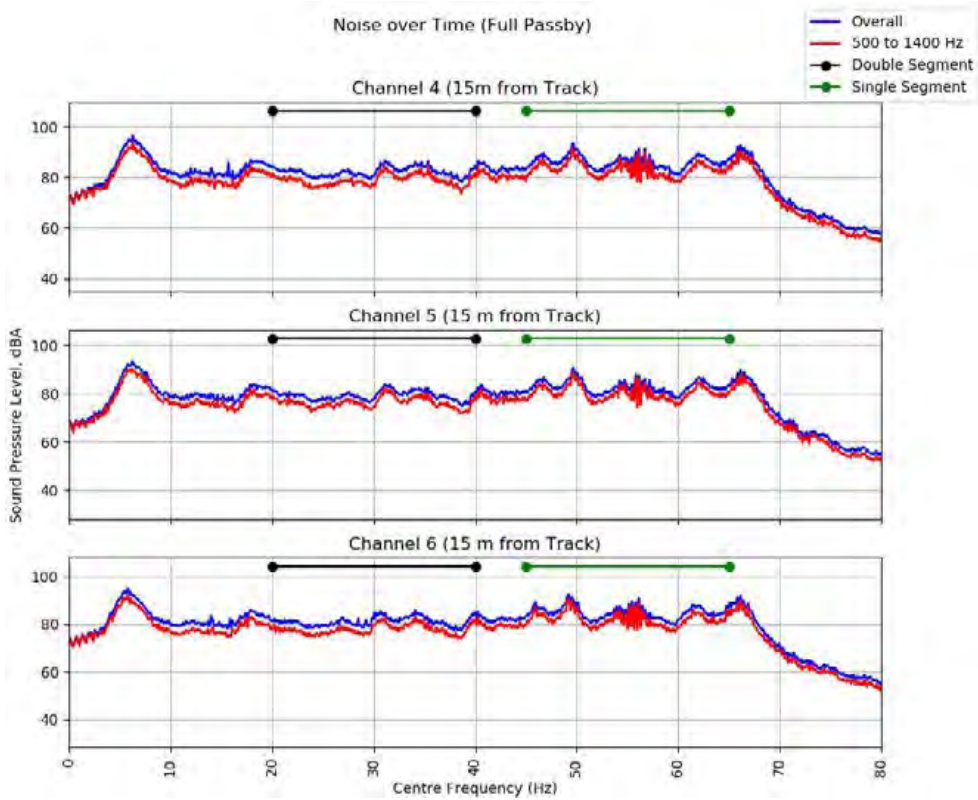
- Proportion of wagons with single and double stacked containers and where they are located.
- Number and position of empty wagons (no containers).
- Load of the individual wagons, which can vary from empty to the maximum load capacity.

Consequently, whilst the loading of the freight consist can vary considerably depending on the mix of empty or fully loaded containers, the measurements find it insignificant with respect to rolling noise and vibration emissions compared to other factors such as individual wheel and track condition.

On the basis of the above analysis, correction factors to the noise and/or vibration emissions from double stacked wagons have not be considered in the Inland Rail operational rail noise and vibration assessments (at the EIS stage).

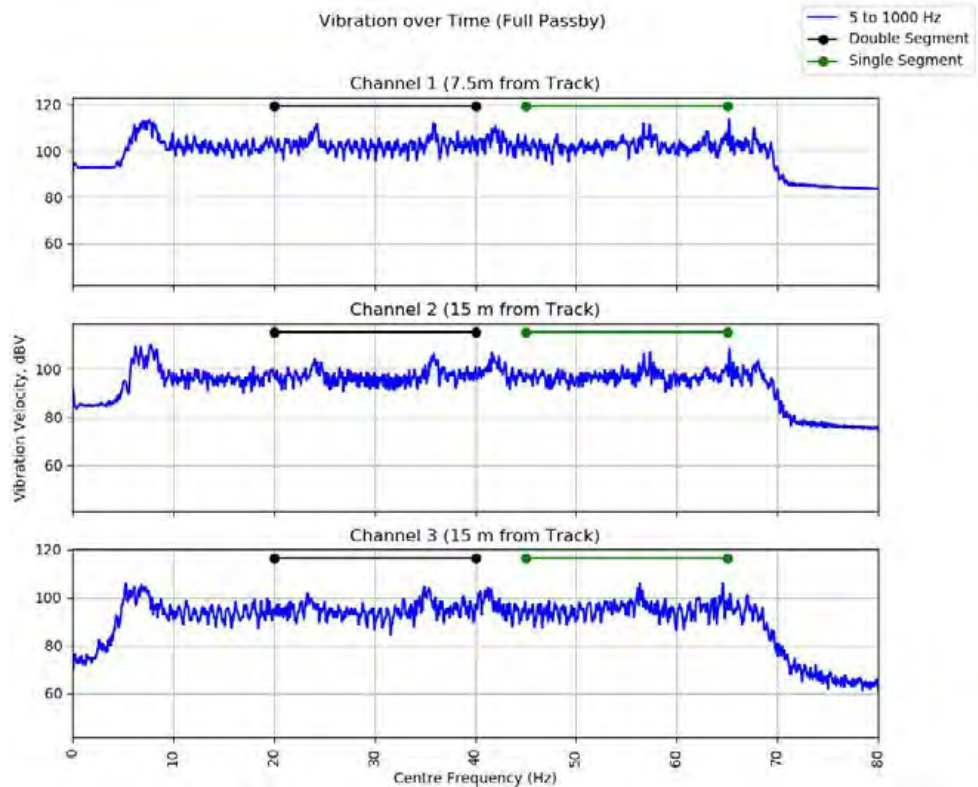


Figure C1 A-weighted noise levels for the entire train passby



The ground vibration levels at three locations (Channel 1, Channel 2 and Channel 3) for the same train passby event is presented in **Figure C2**.

Figure C2 Vibration velocity levels for the entire train passby





APPENDIX

P

Operational Railway Noise and  
Vibration Technical Report

**Appendix D** Predicted Airborne Railway  
Noise Level—Year 2026  
Project Opening

HELIDON TO CALVERT ENVIRONMENTAL IMPACT STATEMENT



## **APPENDIX D**

Predicted airborne railway noise levels – Year 2026 Project opening



The predicted railway noise levels at the commencement of railway operations in year 2026 are detailed in the following table and noise contour maps.

The predicted noise levels are provided for the identified sensitive receptors within the study area. This includes all sensitive receptors where the predicted noise levels triggered an investigation of noise mitigation. The sensitive receptors above the tunnel alignment are not included as there were no airborne noise emissions from train passbys within the tunnel.

The symbol (-) in the table denotes there was not a prediction of future rail noise as the sensitive receptor was located more than 2 km from the source of noise or, for existing rail noise, the receptors were outside the assessment area where the Project tied into the existing rail corridors.

Following the tabulated results are the predicted noise contour maps for the railway operations at the project opening in year 2026. The noise contours have been presented as the daytime and night-time assessment criteria applied by ARTC on the Project. All noise contours are predicted at 2.4 m above ground level and there are no airborne noise predictions where the trains are within the Little Liverpool Range Tunnel.

The noise contour maps cover the entire project route and provide a detailed presentation of the assessment of noise based on the daytime and night-time railway noise assessment criteria. There are some sensitive receptors not shown in the noise contour maps as they are outside of the mapping extent. Identified receptors that are not presented in the maps are further from the alignment, where the predicted noise levels are lower than presented in the maps and the daytime and night-time noise criteria are expected to be readily achieved.

The noise contours are calculated from the interpolation of thousands of calculation points and provide an overview of the railway noise levels to assist the interpretation of the assessment and its outcomes. The tabulated noise levels at the individual sensitive receptors should be referenced when assessing railway noise levels against the criteria.



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
270543	Upgrade	65	60	85	34	35	60	40	41	65	5.4	6.0	4.7
270697	Upgrade	65	60	85	36	37	62	41	42	66	5.0	5.7	4.4
270905	Upgrade	65	60	85	0	0	0	19	20	44	18.8	19.8	44.2
271010	Upgrade	65	60	85	35	34	57	42	43	67	7.7	9.0	9.6
271236	Upgrade	65	60	85	12	12	36	34	34	55	22.4	22.4	19.0
271258	Upgrade	65	60	85	21	21	45	25	26	51	4.1	4.8	6.0
271265	Upgrade	65	60	85	14	14	38	34	34	55	20.7	20.7	17.3
271324	Upgrade	65	60	85	22	22	45	26	27	51	4.1	4.9	6.4
271370	Upgrade	65	60	85	37	37	60	43	43	66	5.2	6.8	6.2
271377	Upgrade	65	60	85	37	36	60	42	42	66	4.5	6.3	5.6
271388	Upgrade	65	60	85	32	32	57	42	43	67	10.6	11.0	10.0
271392	Upgrade	65	60	85	30	28	54	35	35	56	4.9	6.7	1.5
271399	Upgrade	65	60	85	36	36	60	42	43	66	5.5	6.9	6.2
271407	Upgrade	65	60	85	36	36	60	42	43	67	6.3	6.9	7.5
271420	Upgrade	65	60	85	39	38	62	43	44	67	4.8	6.4	5.3
271498	Upgrade	65	60	85	30	30	54	36	36	59	5.5	6.9	4.7
271504	Upgrade	65	60	85	40	41	64	46	47	71	5.6	6.3	6.5
271519	Upgrade	65	60	85	41	41	64	46	47	71	5.5	6.2	6.3
271540	Upgrade	65	60	85	41	41	65	46	47	71	5.5	6.1	6.0
271541	Upgrade	65	60	85	38	38	61	44	46	69	6.7	7.4	8.1
271556	Upgrade	65	60	85	39	39	63	44	45	68	5.1	6.6	5.7
271583	Upgrade	65	60	85	43	43	67	47	48	72	4.6	5.3	5.2
271603	Upgrade	65	60	85	41	41	65	47	48	71	5.6	6.2	6.3
271670	Upgrade	65	60	85	23	24	45	27	28	52	4.1	4.7	6.6
271684	Upgrade	65	60	85	41	42	65	47	48	71	5.4	6.1	6.3
271788	Upgrade	65	60	85	24	24	46	28	29	53	4.0	4.7	6.5
271854	Upgrade	65	60	85	42	42	64	46	47	70	4.4	5.2	5.6
271859	Upgrade	65	60	85	26	26	48	30	31	54	4.0	4.7	6.2
271902	Upgrade	65	60	85	43	43	65	48	48	71	4.5	5.2	5.7
272056	Upgrade	65	60	85	42	42	66	45	46	70	3.2	4.0	4.3
272075	Upgrade	65	60	85	27	27	49	31	32	56	4.0	4.7	6.2
272166	Upgrade	65	60	85	27	27	49	31	32	55	4.0	4.6	6.5
272681	Upgrade	65	60	85	44	44	66	48	49	73	4.2	4.8	6.4
272726	Upgrade	65	60	85	44	44	67	48	49	73	4.2	4.9	6.2
272815	Upgrade	65	60	85	37	37	60	44	45	69	7.7	8.5	9.0
272898	Upgrade	65	60	85	44	44	67	48	49	73	4.2	5.0	5.6
272950	Upgrade	65	60	85	44	44	67	48	49	73	4.0	4.8	5.6
273099	Upgrade	65	60	85	45	44	66	50	51	72	5.0	6.2	6.3
273101	Upgrade	65	60	85	31	32	56	40	41	65	9.0	9.6	9.4
273114	Upgrade	65	60	85	32	33	57	42	43	67	9.6	10.2	9.4
273123	Upgrade	65	60	85	43	43	63	49	50	71	5.9	6.9	8.1
273140	Upgrade	65	60	85	46	45	69	50	51	74	4.6	5.9	5.2
273181	Upgrade	65	60	85	38	38	62	45	46	70	7.2	7.9	8.4
273191	Upgrade	65	60	85	43	43	63	49	50	72	6.0	7.1	8.3
273209	Upgrade	65	60	85	36	36	61	44	45	69	8.4	9.0	8.6
273221	Upgrade	65	60	85	41	41	64	47	48	70	5.5	7.0	5.7
273229	Upgrade	65	60	85	41	41	65	47	47	70	5.1	6.5	4.7
273232	Upgrade	65	60	85	41	41	63	47	48	71	5.8	7.1	7.5
273248	Upgrade	65	60	85	46	46	69	49	50	74	3.8	4.5	5.4
273255	Upgrade	65	60	85	46	46	69	50	51	75	4.2	4.9	5.6
273281	Upgrade	65	60	85	42	42	65	46	47	69	4.6	5.4	4.8



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax
273326	Upgrade	65	60	85	36	36	60	43	44	68	7.7	8.3	8.7
273373	Upgrade	65	60	85	46	46	68	48	49	73	2.4	3.1	4.8
273393	Upgrade	65	60	85	40	40	63	47	48	72	7.4	8.0	8.7
273443	Upgrade	65	60	85	35	35	58	43	44	68	8.6	9.2	9.5
273456	Upgrade	65	60	85	42	41	65	46	47	69	4.8	6.3	4.1
273464	Upgrade	65	60	85	38	38	62	46	46	70	7.6	8.1	7.9
273499	Upgrade	65	60	85	37	37	61	45	46	69	8.1	8.7	8.7
273506	Upgrade	65	60	85	45	45	68	50	51	73	5.1	6.5	5.0
273512	Upgrade	65	60	85	34	34	58	40	41	65	6.4	7.1	7.1
273518	Upgrade	65	60	85	38	38	62	45	46	69	7.3	7.8	7.2
273528	Upgrade	65	60	85	36	36	60	43	44	68	7.4	7.9	8.0
273543	Upgrade	65	60	85	40	41	64	48	49	72	7.3	7.9	8.5
273589	Upgrade	65	60	85	43	43	68	47	48	72	4.2	4.9	4.5
273610	Upgrade	65	60	85	43	43	68	47	49	73	4.5	5.3	4.9
273626	Upgrade	65	60	85	43	43	68	47	48	73	4.4	5.1	4.8
273646	Upgrade	65	60	85	45	45	70	49	50	74	4.1	4.7	4.3
273661	Upgrade	65	60	85	38	37	62	43	44	65	4.9	6.4	3.4
273667	Upgrade	65	60	85	39	38	61	44	45	66	5.1	6.6	4.4
273669	Upgrade	65	60	85	46	46	67	51	52	74	4.9	6.0	6.9
273721	Upgrade	65	60	85	46	46	68	50	51	73	4.3	5.8	5.1
273737	Upgrade	65	60	85	46	46	68	50	51	74	4.0	4.8	5.9
273742	Upgrade	65	60	85	40	40	63	47	48	71	6.2	7.1	8.6
273745	Upgrade	65	60	85	47	47	69	49	50	73	2.0	2.7	4.0
273762	Upgrade	65	60	85	44	44	66	50	51	73	5.6	6.5	7.7
273763	Upgrade	65	60	85	37	37	60	42	42	63	4.6	5.9	3.9
273771	Upgrade	65	60	85	47	47	69	49	50	73	2.0	2.7	4.0
273776	Upgrade	65	60	85	37	37	59	42	43	64	5.0	6.3	4.4
273842	Upgrade	65	60	85	44	44	67	48	49	73	4.5	5.3	5.8
273883	Upgrade	65	60	85	39	39	62	45	46	69	6.3	7.2	7.6
273884	Upgrade	65	60	85	44	44	67	48	49	73	4.2	5.0	6.0
273886	Upgrade	65	60	85	45	45	67	51	52	75	6.2	7.2	7.8
273933	Upgrade	65	60	85	46	46	70	50	51	75	4.2	5.0	5.0
273952	Upgrade	65	60	85	46	46	70	51	52	75	4.4	5.3	5.2
273958	Upgrade	65	60	85	48	48	70	50	51	75	2.5	3.1	4.4
273984	Upgrade	65	60	85	46	46	69	50	51	74	4.2	5.0	4.9
273989	Upgrade	65	60	85	40	40	63	47	47	71	6.2	7.0	8.5
274006	Upgrade	65	60	85	47	47	71	51	52	76	4.1	4.7	5.6
274020	Upgrade	65	60	85	41	41	64	47	48	72	6.1	6.9	7.8
274062	Upgrade	65	60	85	48	48	71	52	53	76	3.9	4.8	5.3
274073	Upgrade	65	60	85	48	48	71	52	53	77	3.9	4.5	5.7
274111	Upgrade	65	60	85	48	48	70	49	51	74	1.8	2.6	4.0
274210	Upgrade	65	60	85	47	47	71	54	54	76	6.3	7.8	4.7
274318	Upgrade	65	60	85	49	49	70	54	55	77	5.7	6.5	7.2
274337	Upgrade	65	60	85	44	44	69	50	51	73	5.9	7.4	3.4
274360	Upgrade	65	60	85	50	50	71	56	57	78	6.2	7.0	7.2
274374	Upgrade	65	60	85	51	50	73	56	57	78	5.3	6.4	4.7
274380	Upgrade	65	60	85	49	49	70	55	56	77	5.8	6.8	7.0
274391	Upgrade	65	60	85	49	49	70	54	55	78	5.0	6.2	7.2
274397	Upgrade	65	60	85	49	49	70	54	55	78	5.3	6.3	7.9
274401	Upgrade	65	60	85	49	48	70	54	55	78	5.2	6.2	8.0
274411	Upgrade	65	60	85	48	48	71	52	53	77	4.5	5.2	5.9



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmaz	LAeq,15hr	LAeq,9hr	LAmaz	LAeq,15hr	LAeq,9hr	LAmaz
274418	Upgrade	65	60	85	50	49	73	57	57	78	6.9	8.0	4.7
274421	Upgrade	65	60	85	48	48	70	54	55	77	5.3	6.3	7.9
274457	Upgrade	65	60	85	47	46	71	54	55	75	7.8	9.0	4.5
274486	Upgrade	65	60	85	48	47	69	53	54	76	5.3	6.6	7.2
274501	Upgrade	65	60	85	49	48	72	53	54	76	4.6	6.3	4.6
274514	Upgrade	65	60	85	47	47	69	53	53	75	5.7	6.8	6.5
274530	Upgrade	65	60	85	48	48	71	56	56	77	7.1	8.2	6.1
274531	Upgrade	65	60	85	48	48	71	54	54	77	5.1	6.6	5.9
274538	Upgrade	65	60	85	49	49	72	54	55	78	4.7	5.9	5.9
274548	Upgrade	65	60	85	48	48	70	53	54	76	4.9	5.8	5.8
274563	Upgrade	65	60	85	49	48	72	54	55	76	5.0	6.4	3.8
274580	Upgrade	65	60	85	50	49	74	57	57	79	7.1	8.3	4.7
274610	Upgrade	65	60	85	49	47	75	53	54	75	4.5	6.3	0.3
274663	Upgrade	65	60	85	48	48	70	54	54	76	5.7	6.5	5.7
274698	Upgrade	65	60	85	47	47	70	52	53	76	4.9	5.7	5.7
274702	Upgrade	65	60	85	51	52	75	56	57	81	4.7	5.5	5.5
274726	Upgrade	65	60	85	52	50	76	55	55	75	3.4	5.3	-0.7
274756	Upgrade	65	60	85	49	48	71	55	56	77	6.1	7.2	6.2
274782	Upgrade	65	60	85	49	49	73	57	57	79	7.3	8.4	6.2
274786	Upgrade	65	60	85	48	48	71	53	53	77	4.7	5.6	5.7
274816	Upgrade	65	60	85	49	49	71	55	56	78	5.9	7.0	6.8
274853	Upgrade	65	60	85	49	49	71	54	55	77	4.6	5.6	6.7
274861	Upgrade	65	60	85	49	48	73	56	57	78	7.0	8.2	4.5
274930	Upgrade	65	60	85	50	50	74	57	58	79	6.8	8.1	4.5
275030	Upgrade	65	60	85	50	50	73	56	57	79	5.9	6.9	6.3
275051	Upgrade	65	60	85	53	51	78	57	57	78	4.1	6.1	0.9
275063	Upgrade	65	60	85	51	50	75	57	58	80	6.5	7.8	4.7
275088	Upgrade	65	60	85	50	50	73	56	57	80	5.7	6.8	7.6
275105	Upgrade	65	60	85	53	52	78	58	58	79	4.6	6.4	0.3
275130	Upgrade	65	60	85	53	52	77	59	60	80	6.3	7.9	3.5
275131	Upgrade	65	60	85	53	52	80	58	58	79	4.7	6.4	-0.8
275132	Upgrade	65	60	85	52	51	77	59	59	80	6.3	8.0	3.0
275135	Upgrade	65	60	85	50	50	72	56	56	80	5.8	6.7	7.9
275137	Upgrade	65	60	85	51	52	75	55	56	81	4.2	4.9	5.4
275173	Upgrade	65	60	85	52	51	77	56	56	78	3.8	5.7	1.2
275197	Upgrade	65	60	85	49	49	71	54	55	78	4.8	6.1	6.3
275200	Upgrade	65	60	85	52	52	76	59	60	81	7.0	8.2	4.9
275203	Upgrade	65	60	85	51	51	73	56	57	80	4.5	5.7	7.1
275240	Upgrade	65	60	85	51	50	72	56	57	80	5.6	6.7	8.3
275283	Upgrade	65	60	85	53	53	77	59	60	84	5.8	6.5	6.6
275291	Upgrade	65	60	85	55	54	81	60	61	82	5.4	7.1	0.9
275295	Upgrade	65	60	85	51	51	73	56	57	80	5.0	6.2	7.7
275297	Upgrade	65	60	85	53	53	77	59	60	83	5.9	6.6	6.9
275308	Upgrade	65	60	85	50	49	74	54	55	76	4.3	5.9	1.9
275354	Upgrade	65	60	85	49	49	72	55	55	79	5.6	6.7	6.5
275357	Upgrade	65	60	85	50	49	72	55	55	77	4.8	6.1	5.2
275359	Upgrade	65	60	85	51	51	72	56	57	80	5.5	6.6	8.5
275380	Upgrade	65	60	85	52	52	76	56	57	82	4.2	5.0	5.4
275399	Upgrade	65	60	85	51	51	73	56	57	80	5.5	6.7	7.4
275412	Upgrade	65	60	85	49	49	72	55	56	79	6.2	7.3	6.6
275415	Upgrade	65	60	85	53	53	78	57	58	82	4.2	4.8	4.1



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
275424	Upgrade	65	60	85	49	49	71	54	55	79	5.2	6.3	7.8
275427	Upgrade	65	60	85	52	52	76	58	59	82	6.0	6.9	6.0
275455	Upgrade	65	60	85	47	47	72	52	53	77	4.7	5.7	5.3
275457	Upgrade	65	60	85	53	53	76	58	59	82	4.8	6.0	6.3
275461	Upgrade	65	60	85	50	49	74	54	55	77	4.3	6.0	3.2
275480	Upgrade	65	60	85	53	52	76	58	59	82	5.4	6.5	6.2
275487	Upgrade	65	60	85	53	53	75	57	58	82	4.6	5.9	6.9
275500	Upgrade	65	60	85	52	52	74	57	58	81	5.2	6.4	6.7
275520	Upgrade	65	60	85	54	53	80	61	62	83	7.2	8.7	3.8
275538	Upgrade	65	60	85	52	51	77	56	57	80	3.8	5.5	3.1
275552	Upgrade	65	60	85	52	51	77	59	59	81	6.7	8.4	3.9
275561	Upgrade	65	60	85	52	51	75	57	58	81	5.0	6.4	5.6
275565	Upgrade	65	60	85	51	50	76	55	56	77	4.0	5.7	1.7
275589	New	60	55	80	-	-	-	50	51	74	-	-	-
275592	Upgrade	65	60	85	53	53	77	58	59	83	5.2	5.9	5.8
275596	Upgrade	65	60	85	50	49	73	56	56	77	6.0	7.3	4.2
275604	Upgrade	65	60	85	48	47	73	57	58	79	9.1	10.6	5.8
275635	Upgrade	65	60	85	53	53	77	58	59	83	5.1	6.1	6.7
275643	Upgrade	65	60	85	52	52	76	57	58	81	5.0	6.4	4.7
275644	Upgrade	65	60	85	54	53	80	58	59	81	3.9	5.6	1.8
275657	Upgrade	65	60	85	51	50	74	57	57	80	5.8	6.8	6.3
275660	Upgrade	65	60	85	53	53	78	62	63	84	9.1	10.3	5.5
275674	Upgrade	65	60	85	54	53	80	62	63	85	8.1	9.5	5.3
275752	Upgrade	65	60	85	53	52	77	57	58	79	4.4	6.1	2.1
275775	Upgrade	65	60	85	55	54	81	59	59	81	3.4	5.3	0.1
275783	Upgrade	65	60	85	54	53	79	58	59	81	4.5	6.2	2.7
275926	Upgrade	65	60	85	55	54	79	62	62	84	7.1	8.5	5.8
275977	Upgrade	65	60	85	56	55	82	60	61	82	4.5	6.3	0.6
276007	Upgrade	65	60	85	56	54	81	61	61	83	5.0	6.7	1.6
276055	New	60	55	80	-	-	-	52	53	76	-	-	-
276084	Upgrade	65	60	85	56	55	83	62	62	84	5.2	6.9	1.3
276117	Upgrade	65	60	85	57	56	81	62	63	85	5.2	6.5	3.8
276134	Upgrade	65	60	85	55	54	78	63	64	87	8.2	9.3	8.8
276140	Upgrade	65	60	85	57	56	84	62	63	85	4.9	6.8	1.3
276186	Upgrade	65	60	85	55	55	80	61	62	86	6.7	7.8	5.9
276207	Upgrade	65	60	85	56	55	82	68	68	90	11.5	13.0	8.0
276215	Upgrade	65	60	85	60	59	84	65	65	86	4.4	6.3	2.2
276244	Upgrade	65	60	85	53	53	77	59	60	83	5.7	7.2	5.9
276246	Upgrade	65	60	85	60	58	85	65	65	87	5.0	7.0	1.7
276249	Upgrade	65	60	85	61	59	87	67	67	90	5.8	7.7	3.3
276288	Upgrade	65	60	85	57	56	83	61	62	83	4.3	6.1	0.1
276378	Upgrade	65	60	85	57	55	83	72	72	96	15.5	17.0	13.7
276388	Upgrade	65	60	85	55	55	78	61	62	85	5.8	7.1	6.5
276470	Upgrade	65	60	85	58	58	86	66	67	91	7.4	8.1	5.1
276505	Upgrade	65	60	85	65	63	90	67	68	90	2.8	5.0	-0.5
276507	Upgrade	65	60	85	57	57	84	64	65	89	7.1	8.1	4.2
276517	Upgrade	65	60	85	61	60	86	68	68	90	6.7	8.5	3.4
276534	Upgrade	65	60	85	63	63	90	70	71	96	7.2	7.9	5.8
276546	Upgrade	65	60	85	58	58	85	66	67	91	7.4	8.3	5.2
276577	Upgrade	65	60	85	72	70	99	70	71	94	-1.3	1.2	-5.7
276585	Upgrade	65	60	85	62	61	89	71	72	95	9.4	10.3	5.8



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
276593	Upgrade	65	60	85	62	61	88	69	70	94	7.6	8.5	5.5
276634	Upgrade	65	60	85	65	64	91	75	75	97	9.5	10.8	6.0
276783	New	60	55	80	-	-	-	63	64	88	-	-	-
276791	Upgrade	65	60	85	72	71	100	70	71	94	-2.1	0.2	-5.6
276801	Upgrade	65	60	85	63	62	91	69	70	93	6.0	7.8	2.1
276829	New	60	55	80	-	-	-	58	59	82	-	-	-
276898	Upgrade	65	60	85	66	64	92	69	70	93	3.6	5.3	1.4
276907	Upgrade	65	60	85	64	63	89	66	67	88	1.9	3.7	-1.2
276942	Upgrade	65	60	85	65	64	91	65	65	87	-0.3	1.2	-4.3
276950	Upgrade	65	60	85	63	62	90	70	71	94	6.9	8.5	4.4
277035	Upgrade	65	60	85	75	75	105	62	62	85	-12.9	-12.6	-19.4
277136	Upgrade	65	60	85	55	56	81	59	60	84	3.6	4.3	3.8
277192	Upgrade	65	60	85	55	55	80	59	60	84	3.7	4.4	4.1
277198	Upgrade	65	60	85	58	57	82	62	62	85	4.3	5.8	2.6
277235	Upgrade	65	60	85	55	55	80	58	59	84	3.7	4.4	4.0
277265	Upgrade	65	60	85	52	52	76	57	58	81	4.8	5.5	5.8
277296	Upgrade	65	60	85	64	64	89	61	62	82	-3.2	-2.1	-6.5
277316	Upgrade	65	60	85	74	72	102	63	63	86	-10.9	-8.9	-16.0
277319	Upgrade	65	60	85	73	71	100	63	63	86	-9.9	-7.7	-14.8
277333	Upgrade	65	60	85	55	55	79	58	59	83	3.3	4.1	4.0
277346	Upgrade	65	60	85	57	57	82	58	59	83	0.5	1.3	0.7
277361	Upgrade	65	60	85	69	68	96	62	62	83	-7.4	-5.4	-13.2
277364	Upgrade	65	60	85	70	69	97	62	62	83	-8.3	-6.3	-14.1
277368	Upgrade	65	60	85	67	66	92	62	63	83	-5.3	-3.7	-9.0
277389	Upgrade	65	60	85	65	64	92	61	61	83	-4.4	-2.8	-9.4
277394	Upgrade	65	60	85	71	69	98	62	63	83	-8.6	-6.6	-15.0
277408	Upgrade	65	60	85	56	56	80	58	59	83	2.0	2.7	2.4
277438	Upgrade	65	60	85	57	57	82	58	59	83	1.6	2.4	1.7
277441	Upgrade	65	60	85	57	57	82	58	58	82	0.4	1.2	0.0
277445	Upgrade	65	60	85	67	65	94	61	61	82	-5.9	-4.0	-11.4
277455	Upgrade	65	60	85	54	55	79	57	58	82	2.7	3.4	3.1
277466	Upgrade	65	60	85	59	58	83	59	60	81	0.5	1.7	-2.1
277469	Upgrade	65	60	85	56	56	81	57	58	82	1.4	2.0	1.2
277481	Upgrade	65	60	85	66	65	93	62	62	83	-4.6	-2.6	-9.8
277491	Upgrade	65	60	85	64	63	91	59	59	82	-5.5	-3.5	-9.6
277503	Upgrade	65	60	85	58	57	83	60	61	83	2.6	4.5	0.2
277504	Upgrade	65	60	85	60	59	85	61	61	83	1.0	2.4	-2.1
277507	Upgrade	65	60	85	52	53	76	56	57	81	3.3	4.0	4.1
277517	Upgrade	65	60	85	61	60	86	59	60	81	-2.0	-0.2	-4.7
277535	Upgrade	65	60	85	55	55	79	57	58	82	2.0	2.9	2.4
277544	Upgrade	65	60	85	57	56	82	58	59	80	0.6	2.2	-2.5
277552	Upgrade	65	60	85	56	55	82	59	59	82	2.5	4.4	0.4
277558	Upgrade	65	60	85	53	54	77	57	58	82	4.1	4.8	5.0
277559	Upgrade	65	60	85	54	54	79	56	57	81	2.5	3.1	2.5
277568	New	60	55	80	-	-	-	45	46	68	-	-	-
277569	Upgrade	65	60	85	54	54	78	55	56	80	1.9	2.8	2.0
277571	Upgrade	65	60	85	54	54	79	56	57	81	2.4	3.2	2.4
277586	Upgrade	65	60	85	54	53	79	57	58	80	2.8	4.4	1.0
277592	Upgrade	65	60	85	60	59	84	61	61	82	0.8	2.5	-1.9
277594	Upgrade	65	60	85	63	61	87	58	59	80	-4.5	-2.4	-7.5
277601	New	60	55	80	-	-	-	63	64	88	-	-	-



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
277619	Upgrade	65	60	85	61	60	87	60	60	80	-1.8	0.1	-6.7
277635	Upgrade	65	60	85	54	54	78	56	57	79	1.8	2.8	1.1
277641	Upgrade	65	60	85	58	57	84	57	58	80	-1.0	0.9	-3.6
277645	Upgrade	65	60	85	59	58	84	58	59	79	-1.2	0.7	-4.6
277665	Upgrade	65	60	85	55	55	79	57	57	80	1.5	2.3	0.6
277691	Upgrade	65	60	85	57	56	82	59	59	80	1.9	3.2	-1.3
277711	Upgrade	65	60	85	58	57	85	61	61	81	2.3	4.0	-3.7
277720	Upgrade	65	60	85	52	53	78	56	57	82	3.8	4.5	4.1
277732	Upgrade	65	60	85	57	56	82	59	59	80	1.9	3.4	-2.4
277741	Upgrade	65	60	85	58	57	84	58	58	79	-0.1	1.6	-5.2
277746	Upgrade	65	60	85	54	53	77	56	56	77	2.0	2.9	0.4
277773	Upgrade	65	60	85	52	52	76	56	57	81	3.9	4.6	5.2
277774	Upgrade	65	60	85	59	57	84	60	60	82	1.0	2.6	-2.4
277794	Upgrade	65	60	85	54	53	77	56	57	79	2.6	3.6	1.8
277798	Upgrade	65	60	85	49	50	73	53	54	78	3.9	4.5	4.9
277804	Upgrade	65	60	85	53	53	76	56	56	77	2.8	3.7	1.8
277808	Upgrade	65	60	85	51	52	76	55	56	80	3.7	4.4	4.2
277830	Upgrade	65	60	85	51	50	74	52	53	75	0.7	2.3	0.2
277840	Upgrade	65	60	85	59	57	84	59	59	79	-0.1	1.8	-4.8
277842	Upgrade	65	60	85	56	54	82	56	57	79	0.5	2.5	-3.4
277843	Upgrade	65	60	85	53	53	77	56	56	79	2.3	3.1	1.7
277860	Upgrade	65	60	85	58	56	82	58	58	79	0.4	2.2	-3.2
277884	Upgrade	65	60	85	54	53	77	55	56	79	1.6	2.6	1.7
277892	Upgrade	65	60	85	57	56	81	57	57	78	-0.1	1.8	-3.5
277918	Upgrade	65	60	85	52	52	76	54	55	78	2.0	3.0	1.8
277921	New	60	55	80	-	-	-	60	61	85	-	-	-
277952	Upgrade	65	60	85	52	52	77	58	58	80	5.3	6.8	3.4
277953	Upgrade	65	60	85	53	53	77	55	56	78	2.1	3.1	1.8
277954	Upgrade	65	60	85	55	53	79	59	59	80	3.9	5.7	1.4
278007	Upgrade	65	60	85	52	52	76	55	55	78	2.2	3.2	2.5
278026	Upgrade	65	60	85	52	52	75	55	56	78	3.3	4.1	3.5
278028	Upgrade	65	60	85	52	52	75	54	55	77	1.9	3.1	2.3
278034	Upgrade	65	60	85	50	50	74	54	55	79	3.7	4.4	4.8
278036	New	60	55	80	-	-	-	43	44	66	-	-	-
278056	Upgrade	65	60	85	52	52	75	55	56	78	2.8	3.9	3.5
278061	Upgrade	65	60	85	50	50	74	53	54	79	3.8	4.5	4.7
278064	Upgrade	65	60	85	53	52	76	56	56	79	2.8	3.9	2.7
278071	Upgrade	65	60	85	52	52	76	55	56	78	2.6	3.5	2.7
278094	Upgrade	65	60	85	57	55	81	57	58	80	0.8	2.4	-1.3
278102	Upgrade	65	60	85	51	51	75	53	54	77	2.1	3.2	2.2
278106	Upgrade	65	60	85	50	51	74	55	56	79	4.2	4.8	5.6
278111	New	60	55	80	-	-	-	42	43	66	-	-	-
278118	Upgrade	65	60	85	49	49	70	54	55	78	5.3	6.3	8.2
278134	Upgrade	65	60	85	50	50	73	52	52	75	1.2	2.5	1.8
278135	Upgrade	65	60	85	51	51	74	53	54	77	1.5	2.8	2.6
278156	Upgrade	65	60	85	50	50	74	54	55	79	4.3	4.8	5.4
278163	Upgrade	65	60	85	47	47	68	53	54	77	5.8	6.7	9.2
278165	Upgrade	65	60	85	53	52	76	54	55	78	1.6	2.9	1.9
278167	Upgrade	65	60	85	51	50	74	54	54	77	2.8	3.8	2.8
278173	Upgrade	65	60	85	53	52	77	56	57	77	3.0	4.5	-0.1
278174	Upgrade	65	60	85	52	52	76	57	57	79	4.3	5.9	3.2



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmaz	LAeq,15hr	LAeq,9hr	LAmaz	LAeq,15hr	LAeq,9hr	LAmaz
278179	Upgrade	65	60	85	53	52	77	56	56	77	3.2	4.7	0.5
278190	Upgrade	65	60	85	50	50	73	52	53	76	2.0	3.0	2.9
278192	Upgrade	65	60	85	52	51	75	54	55	78	2.3	3.4	3.7
278211	Upgrade	65	60	85	51	50	76	54	54	74	2.2	3.8	-1.9
278226	Upgrade	65	60	85	54	53	80	54	54	76	-0.9	1.1	-4.3
278232	Upgrade	65	60	85	52	51	76	57	57	79	4.1	5.8	2.9
278233	Upgrade	65	60	85	49	49	73	52	53	78	3.7	4.3	4.7
278249	Upgrade	65	60	85	52	52	75	55	55	78	2.8	3.8	3.5
278266	Upgrade	65	60	85	49	49	72	53	54	77	4.0	4.7	5.4
278279	Upgrade	65	60	85	51	51	74	54	55	78	2.7	3.7	3.8
278284	Upgrade	65	60	85	49	50	74	53	54	78	3.9	4.6	4.6
278285	Upgrade	65	60	85	51	50	73	53	53	76	2.1	3.3	3.1
278287	Upgrade	65	60	85	52	50	76	54	55	76	2.9	4.4	0.1
278289	Upgrade	65	60	85	50	50	74	53	54	78	2.9	3.9	4.1
278297	Upgrade	65	60	85	51	50	73	53	54	77	2.7	3.9	3.5
278320	Upgrade	65	60	85	51	50	76	53	53	74	1.9	3.5	-2.1
278323	Upgrade	65	60	85	49	49	74	53	54	79	4.0	4.7	4.9
278325	Upgrade	65	60	85	52	51	74	54	55	78	2.4	3.5	3.7
278348	Upgrade	65	60	85	46	46	68	52	53	76	6.2	7.2	8.7
278358	Upgrade	65	60	85	51	50	75	55	56	77	4.1	5.8	2.4
278363	Upgrade	65	60	85	51	50	75	55	56	78	4.1	5.8	2.9
278401	New	60	55	80	-	-	-	60	61	84	-	-	-
278402	Upgrade	65	60	85	47	47	71	51	52	76	3.6	4.4	4.4
278407	Upgrade	65	60	85	51	51	73	54	55	77	2.8	3.8	3.8
278413	Upgrade	65	60	85	48	48	71	51	52	75	2.6	3.7	3.4
278421	Upgrade	65	60	85	50	50	72	54	55	78	4.0	4.7	6.1
278426	Upgrade	65	60	85	53	51	79	54	54	76	0.8	2.8	-2.7
278435	Upgrade	65	60	85	49	50	74	53	54	78	3.4	4.2	4.1
278437	Upgrade	65	60	85	49	50	72	53	54	78	3.9	4.7	5.9
278439	Upgrade	65	60	85	49	49	73	52	53	77	2.5	3.3	3.7
278442	Upgrade	65	60	85	51	49	77	51	51	72	-0.1	2.0	-4.9
278465	Upgrade	65	60	85	48	48	71	52	53	77	3.9	4.6	5.6
278470	Upgrade	65	60	85	50	51	73	55	55	79	4.2	4.9	5.7
278476	Upgrade	65	60	85	50	49	71	52	52	75	2.2	3.5	3.4
278480	Upgrade	65	60	85	47	47	70	49	50	74	2.0	3.3	3.6
278483	Upgrade	65	60	85	48	48	71	52	53	77	4.0	4.7	6.0
278485	Upgrade	65	60	85	48	48	72	52	53	77	4.0	4.8	5.5
278490	Upgrade	65	60	85	47	47	70	51	52	76	3.9	4.7	5.9
278491	Upgrade	65	60	85	48	48	72	52	53	77	4.2	4.9	5.0
278503	Upgrade	65	60	85	47	48	71	51	52	76	3.3	4.1	4.7
278506	Upgrade	65	60	85	49	49	72	53	53	75	3.3	4.6	3.7
278513	Upgrade	65	60	85	49	49	71	52	53	76	3.4	4.3	4.6
278515	Upgrade	65	60	85	49	49	72	52	53	75	2.6	3.9	2.8
278520	Upgrade	65	60	85	52	50	78	52	53	74	0.6	2.6	-3.9
278529	Upgrade	65	60	85	48	48	70	54	54	78	5.3	6.6	7.4
278532	Upgrade	65	60	85	49	48	71	53	53	76	3.9	5.0	5.0
278536	Upgrade	65	60	85	51	49	77	52	53	74	1.4	3.4	-2.9
278537	Upgrade	65	60	85	49	49	71	52	53	76	3.5	4.4	4.5
278542	Upgrade	65	60	85	37	36	61	41	42	63	3.8	5.1	1.6
278547	Upgrade	65	60	85	48	47	70	52	52	75	4.1	5.3	5.2
278552	Upgrade	65	60	85	49	49	71	52	53	75	3.1	4.2	4.5



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA				Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	
278555	Upgrade	65	60	85	85	50	50	73	53	54	78	3.2	4.0	4.3
278558	Upgrade	65	60	85	48	48	71	50	51	74	2.2	3.6	3.0	
278559	Upgrade	65	60	85	42	42	66	46	47	70	3.6	4.6	4.1	
278563	Upgrade	65	60	85	47	47	69	50	51	73	2.7	4.0	4.0	
278566	Upgrade	65	60	85	49	50	72	53	54	78	4.0	4.7	5.8	
278569	New	60	55	80	-	-	-	59	60	82	-	-	-	
278570	Upgrade	65	60	85	46	46	69	49	50	73	2.9	3.9	3.5	
278571	Upgrade	65	60	85	47	47	70	50	51	74	2.4	3.8	3.8	
278588	Upgrade	65	60	85	45	45	68	48	48	72	2.7	3.8	3.4	
278598	Upgrade	65	60	85	48	49	71	52	53	77	3.9	4.6	6.1	
278601	Upgrade	65	60	85	47	47	69	52	52	75	4.6	5.6	6.3	
278604	Upgrade	65	60	85	43	43	68	46	47	71	3.6	4.4	3.6	
278611	Upgrade	65	60	85	43	42	66	48	49	72	5.2	6.5	5.8	
278618	Upgrade	65	60	85	42	42	67	46	47	71	3.4	4.3	3.8	
278624	Upgrade	65	60	85	42	42	66	45	46	70	3.4	4.3	4.0	
278627	Upgrade	65	60	85	47	47	68	51	52	75	4.5	5.5	6.5	
278630	Upgrade	65	60	85	43	42	66	46	47	70	3.0	4.4	4.3	
278640	New	60	55	80	-	-	-	60	61	85	-	-	-	
278641	Upgrade	65	60	85	46	46	67	50	51	74	4.6	5.4	6.5	
278642	Upgrade	65	60	85	44	44	67	49	50	74	4.9	6.0	6.4	
278643	Upgrade	65	60	85	46	46	70	49	50	74	3.5	4.2	4.8	
278646	Upgrade	65	60	85	44	44	67	48	49	73	3.4	4.2	5.5	
278647	New	60	55	80	-	-	-	46	47	69	-	-	-	
278648	Upgrade	65	60	85	48	49	76	30	31	52	-17.8	-17.8	-23.4	
278649	Upgrade	65	60	85	43	42	64	48	49	72	5.2	6.4	7.6	
278651	Upgrade	65	60	85	38	38	61	44	45	68	5.8	6.9	7.4	
278662	Upgrade	65	60	85	43	43	68	47	47	72	3.6	4.5	3.9	
278664	Upgrade	65	60	85	41	41	66	45	45	70	3.6	4.4	4.0	
278675	Upgrade	65	60	85	39	39	64	43	44	68	3.4	4.4	3.8	
278679	New	60	55	80	-	-	-	46	47	69	-	-	-	
278680	Upgrade	65	60	85	39	38	62	44	44	67	4.5	6.1	4.5	
278682	Upgrade	65	60	85	39	38	63	43	44	67	3.8	5.6	3.6	
278688	Upgrade	65	60	85	46	46	68	49	50	73	3.3	4.2	4.1	
278689	New	60	55	80	-	-	-	38	39	59	-	-	-	
278692	Upgrade	65	60	85	37	36	61	39	39	60	1.6	3.4	-1.6	
278693	Upgrade	65	60	85	62	62	92	32	33	55	-29.6	-29.6	-37.2	
278700	New	60	55	80	-	-	-	38	39	60	-	-	-	
278705	Upgrade	65	60	85	51	52	78	34	34	55	-17.9	-17.9	-22.4	
278707	Upgrade	65	60	85	45	45	67	50	51	74	5.5	6.7	6.7	
278708	Upgrade	65	60	85	46	46	68	49	50	73	3.0	4.0	4.6	
278709	Upgrade	65	60	85	42	41	64	47	48	72	5.6	6.9	7.6	
278715	New	60	55	80	-	-	-	49	50	73	-	-	-	
278718	Upgrade	65	60	85	48	48	71	35	36	57	-12.2	-12.2	-13.4	
278720	Upgrade	65	60	85	47	47	72	33	33	54	-14.0	-13.9	-17.5	
278722	Upgrade	65	60	85	47	47	71	33	33	54	-14.2	-14.1	-17.1	
278723	Upgrade	65	60	85	47	47	70	33	33	54	-13.7	-13.7	-15.3	
278724	Upgrade	65	60	85	46	47	71	31	31	51	-15.6	-15.3	-19.9	
278730	Upgrade	65	60	85	46	46	69	33	33	54	-12.9	-12.8	-14.8	
278731	Upgrade	65	60	85	46	47	71	30	31	51	-16.3	-16.0	-20.2	
278732	Upgrade	65	60	85	39	40	63	30	31	50	-9.3	-9.1	-13.5	
278733	Upgrade	65	60	85	40	40	63	31	31	51	-9.0	-8.8	-11.9	



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax
278734	Upgrade	65	60	85	44	44	66	48	49	72	4.2	5.0	5.8
278737	Upgrade	65	60	85	43	43	65	47	48	71	4.2	4.9	6.0
278739	Upgrade	65	60	85	37	37	60	26	27	48	-10.3	-9.9	-12.0
278742	New	60	55	80	-	-	-	48	49	71	-	-	-
278743	Upgrade	65	60	85	41	41	65	44	45	69	3.6	4.5	4.2
278744	Upgrade	65	60	85	43	43	66	32	33	53	-10.5	-10.2	-13.9
278746	Upgrade	65	60	85	38	38	59	24	25	48	-13.3	-12.4	-10.6
278747	Upgrade	65	60	85	41	42	64	31	32	52	-9.9	-9.7	-11.9
278750	Upgrade	65	60	85	41	41	63	29	30	50	-11.5	-11.1	-12.9
278754	Upgrade	65	60	85	46	47	69	35	35	57	-11.2	-11.1	-12.4
278757	New	60	55	80	-	-	-	47	48	72	-	-	-
278759	Upgrade	65	60	85	43	43	65	46	47	71	3.8	4.5	5.8
278765	New	60	55	80	-	-	-	48	49	69	-	-	-
278766	Upgrade	65	60	85	48	48	71	37	38	60	-10.8	-10.5	-11.5
278769	New	60	55	80	-	-	-	45	46	69	-	-	-
278770	Upgrade	65	60	85	43	43	66	47	48	72	4.0	4.7	5.5
278775	Upgrade	65	60	85	41	41	64	45	46	70	3.9	4.6	6.0
278777	Upgrade	65	60	85	37	38	62	41	42	67	4.0	4.6	4.8
278779	Upgrade	65	60	85	43	43	65	47	47	70	3.8	4.8	5.5
278780	New	60	55	80	-	-	-	48	49	72	-	-	-
278782	Upgrade	65	60	85	42	43	65	31	31	51	-11.5	-11.3	-14.6
278789	New	60	55	80	-	-	-	48	49	72	-	-	-
278790	New	60	55	80	-	-	-	45	46	70	-	-	-
278792	Upgrade	65	60	85	38	38	60	28	29	50	-9.8	-9.6	-10.3
278797	Upgrade	65	60	85	39	39	63	45	46	69	5.3	6.4	6.3
278799	New	60	55	80	-	-	-	49	50	71	-	-	-
278800	New	60	55	80	-	-	-	48	49	73	-	-	-
278805	Upgrade	65	60	85	37	36	60	41	41	64	4.1	5.3	4.2
278806	New	60	55	80	-	-	-	49	50	70	-	-	-
278815	Upgrade	65	60	85	44	44	68	29	30	48	-14.9	-14.5	-20.1
278816	Upgrade	65	60	85	43	43	67	29	29	47	-14.3	-13.9	-19.5
278817	Upgrade	65	60	85	42	43	67	29	29	47	-13.9	-13.5	-19.1
278819	New	60	55	80	-	-	-	47	49	74	-	-	-
278820	Upgrade	65	60	85	40	41	64	44	45	70	4.0	4.7	6.2
278821	Upgrade	65	60	85	36	36	61	40	41	66	4.3	5.0	5.1
278825	Upgrade	65	60	85	42	42	66	46	47	72	4.0	4.6	5.6
278839	New	60	55	80	-	-	-	49	50	73	-	-	-
278842	Upgrade	65	60	85	40	40	62	30	31	57	-9.6	-9.1	-4.6
278846	Upgrade	65	60	85	41	41	62	30	31	58	-10.3	-9.8	-4.2
278852	New	60	55	80	-	-	-	49	50	73	-	-	-
278854	New	60	55	80	-	-	-	48	49	72	-	-	-
278857	New	60	55	80	-	-	-	48	49	72	-	-	-
278862	New	60	55	80	-	-	-	46	47	70	-	-	-
278866	New	60	55	80	-	-	-	49	50	72	-	-	-
278868	New	60	55	80	-	-	-	47	48	71	-	-	-
278870	Upgrade	65	60	85	39	39	61	32	33	58	-7.5	-6.9	-3.2
278871	New	60	55	80	-	-	-	50	51	73	-	-	-
278876	New	60	55	80	-	-	-	47	48	70	-	-	-
278881	Upgrade	65	60	85	39	38	61	22	23	50	-16.3	-15.0	-10.6
278882	Upgrade	65	60	85	40	40	62	31	32	57	-8.9	-7.8	-4.6
278883	Upgrade	65	60	85	39	39	61	30	31	58	-9.1	-8.0	-3.3



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		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax
278884	Upgrade	65	60	85	39	39	62	31	32	59	-8.3	-7.0	-3.5
278886	New	60	55	80	-	-	-	45	46	72	-	-	-
278887	New	60	55	80	-	-	-	49	50	72	-	-	-
278888	Upgrade	65	60	85	41	41	64	34	35	61	-6.9	-6.3	-3.1
278889	New	60	55	80	-	-	-	48	49	72	-	-	-
278891	Upgrade	65	60	85	38	39	60	28	30	55	-10.0	-9.0	-4.9
278892	Upgrade	65	60	85	41	41	62	34	35	61	-6.9	-6.4	-1.7
278896	Upgrade	65	60	85	39	39	60	35	36	63	-3.9	-2.9	2.9
278897	New	60	55	80	-	-	-	45	46	72	-	-	-
278898	Upgrade	65	60	85	41	41	64	35	36	62	-5.8	-5.1	-2.0
278903	New	60	55	80	-	-	-	46	47	69	-	-	-
278905	New	60	55	80	-	-	-	42	43	67	-	-	-
278906	Upgrade	65	60	85	39	39	60	30	31	58	-8.9	-7.4	-1.6
278909	New	60	55	80	-	-	-	47	48	74	-	-	-
278911	Upgrade	65	60	85	41	41	62	31	33	59	-9.3	-8.1	-2.7
278920	New	60	55	80	-	-	-	45	46	73	-	-	-
278926	Upgrade	65	60	85	41	41	63	34	35	63	-7.5	-6.2	-0.5
278927	Upgrade	65	60	85	41	41	61	33	34	60	-8.1	-7.1	-1.0
278928	New	60	55	80	-	-	-	45	46	68	-	-	-
278930	New	60	55	80	-	-	-	45	46	68	-	-	-
278943	Upgrade	65	60	85	41	41	61	34	35	61	-7.3	-6.4	0.0
278951	New	60	55	80	-	-	-	42	43	68	-	-	-
278953	Upgrade	65	60	85	41	41	62	37	38	64	-3.8	-2.9	1.8
278958	New	60	55	80	-	-	-	55	56	84	-	-	-
278965	New	60	55	80	-	-	-	43	45	68	-	-	-
278971	Upgrade	65	60	85	40	40	62	33	34	60	-6.9	-6.2	-1.8
278976	New	60	55	80	-	-	-	37	38	63	-	-	-
278977	New	60	55	80	-	-	-	44	45	67	-	-	-
278982	New	60	55	80	-	-	-	32	34	60	-	-	-
278990	Upgrade	65	60	85	41	41	63	32	33	57	-9.0	-7.9	-6.3
279002	Upgrade	65	60	85	42	42	63	33	34	58	-8.5	-8.0	-5.2
279007	Upgrade	65	60	85	42	42	62	36	37	62	-6.1	-5.2	-0.7
279009	Upgrade	65	60	85	40	41	62	43	44	66	2.5	3.1	4.5
279017	New	60	55	80	-	-	-	42	44	66	-	-	-
279018	Upgrade	65	60	85	38	38	58	31	32	60	-7.3	-6.0	2.5
279030	Upgrade	65	60	85	43	44	67	47	48	70	3.2	3.8	3.6
279035	New	60	55	80	-	-	-	46	47	70	-	-	-
279040	Upgrade	65	60	85	42	42	62	43	44	66	1.5	2.3	4.0
279041	Upgrade	65	60	85	42	42	65	44	45	68	2.4	3.1	2.9
279045	Upgrade	65	60	85	40	40	61	32	33	61	-7.7	-6.3	-0.1
279052	Upgrade	65	60	85	42	42	63	33	34	59	-8.9	-8.1	-4.5
279053	Upgrade	65	60	85	39	39	59	33	34	61	-6.6	-5.3	1.8
279070	Upgrade	65	60	85	41	41	63	45	46	68	4.4	5.2	5.3
279071	Upgrade	65	60	85	58	59	87	52	53	74	-6.0	-5.4	-12.2
279072	Upgrade	65	60	85	40	40	63	43	44	66	3.3	4.1	3.8
279076	New	60	55	80	-	-	-	40	41	70	-	-	-
279084	Upgrade	65	60	85	42	42	62	35	36	63	-6.4	-5.3	0.9
279088	New	60	55	80	-	-	-	46	47	70	-	-	-
279089	Upgrade	65	60	85	42	42	64	35	36	61	-7.3	-6.2	-2.3
279094	New	60	55	80	-	-	-	39	40	63	-	-	-
279098	Upgrade	65	60	85	41	41	63	43	44	67	2.5	3.3	3.6



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
279100	Upgrade	65	60	85	42	41	62	34	35	61	-7.8	-6.6	-1.4
279103	Upgrade	65	60	85	41	41	62	30	31	55	-10.7	-9.4	-6.4
279113	New	60	55	80	-	-	-	39	40	66	-	-	-
279123	Upgrade	65	60	85	38	39	63	43	44	66	4.6	5.3	3.3
279126	Upgrade	65	60	85	39	40	62	35	36	61	-4.1	-3.5	-1.3
279159	Upgrade	65	60	85	40	40	63	33	34	60	-7.4	-5.9	-2.4
279161	New	60	55	80	-	-	-	39	41	66	-	-	-
279170	Upgrade	65	60	85	40	40	61	32	33	59	-8.2	-7.1	-1.5
279174	Upgrade	65	60	85	40	41	62	44	45	67	3.3	4.0	4.8
279181	Upgrade	65	60	85	57	57	84	52	53	76	-5.0	-4.5	-7.8
279183	Upgrade	65	60	85	41	42	63	44	45	67	2.3	3.1	4.6
279191	Upgrade	65	60	85	42	42	64	35	36	61	-7.2	-6.3	-2.8
279196	Upgrade	65	60	85	38	38	59	31	32	59	-7.7	-6.5	0.2
279215	Upgrade	65	60	85	54	55	79	50	51	72	-4.4	-3.8	-6.8
279217	Upgrade	65	60	85	60	60	90	50	51	72	-9.6	-9.1	-17.7
279227	Upgrade	65	60	85	56	56	85	48	49	69	-7.9	-7.2	-15.9
279234	Upgrade	65	60	85	42	43	66	46	47	70	3.4	4.2	3.7
279240	Upgrade	65	60	85	43	43	65	38	39	64	-5.1	-4.4	-1.6
279250	Upgrade	65	60	85	58	58	85	49	50	71	-8.5	-7.9	-14.6
279251	Upgrade	65	60	85	57	58	85	50	51	71	-7.2	-6.6	-13.4
279252	Upgrade	65	60	85	40	40	64	39	40	64	-0.3	0.4	0.4
279255	Upgrade	65	60	85	34	35	59	33	34	60	-1.0	-0.4	1.3
279266	New	60	55	80	-	-	-	42	43	68	-	-	-
279267	Upgrade	65	60	85	37	38	59	39	40	63	1.5	2.5	4.2
279271	Upgrade	65	60	85	43	43	64	35	36	61	-7.3	-6.6	-2.3
279274	Upgrade	65	60	85	51	52	76	46	47	68	-5.0	-4.3	-8.2
279282	Upgrade	65	60	85	51	51	77	47	48	68	-3.6	-3.0	-8.8
279303	Upgrade	65	60	85	28	29	52	29	30	53	0.7	1.4	1.0
279307	Upgrade	65	60	85	55	56	83	49	50	71	-6.5	-5.8	-11.9
279311	Upgrade	65	60	85	37	37	61	37	38	62	-0.1	0.6	1.1
279312	Upgrade	65	60	85	43	44	65	39	40	66	-4.4	-3.7	0.6
279328	Upgrade	65	60	85	39	39	63	42	43	66	3.5	4.1	2.8
279338	Upgrade	65	60	85	57	57	85	49	49	70	-8.6	-8.0	-15.3
279340	Upgrade	65	60	85	47	47	69	47	47	70	-0.3	0.2	1.1
279350	Upgrade	65	60	85	55	56	81	52	53	77	-3.7	-2.8	-4.4
279352	Upgrade	65	60	85	50	50	76	46	47	69	-3.7	-3.1	-7.0
279367	Upgrade	65	60	85	38	39	63	41	42	65	2.5	3.2	2.1
279369	Upgrade	65	60	85	49	49	77	47	48	71	-2.1	-1.3	-6.3
279370	Upgrade	65	60	85	43	43	66	32	33	53	-11.0	-10.2	-12.7
279371	Upgrade	65	60	85	44	44	67	41	42	65	-3.3	-2.8	-1.8
279379	Upgrade	65	60	85	37	37	59	39	40	65	1.9	2.7	5.8
279382	Upgrade	65	60	85	50	50	77	48	49	70	-1.8	-1.1	-7.3
279384	Upgrade	65	60	85	54	54	81	47	49	71	-6.3	-5.4	-10.7
279385	Upgrade	65	60	85	50	50	76	50	51	72	0.1	0.7	-3.5
279388	Upgrade	65	60	85	36	36	60	41	42	66	5.3	6.0	5.9
279399	Upgrade	65	60	85	45	45	67	39	40	63	-6.1	-5.5	-3.5
279401	Upgrade	65	60	85	50	50	79	48	49	71	-1.4	-0.7	-7.9
279403	Upgrade	65	60	85	38	38	61	41	42	68	3.4	4.3	6.9
279423	Upgrade	65	60	85	41	41	63	43	44	66	1.9	2.7	3.2
279425	Upgrade	65	60	85	45	45	68	38	39	63	-7.5	-6.7	-4.6
279426	Upgrade	65	60	85	46	46	69	38	39	63	-7.3	-6.9	-5.5



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax
279429	Upgrade	65	60	85	44	44	65	38	39	65	-5.2	-4.4	-0.4
279436	Upgrade	65	60	85	55	55	81	52	53	77	-2.1	-1.4	-4.7
279441	Upgrade	65	60	85	52	52	78	51	52	74	-1.0	-0.3	-4.0
279444	Upgrade	65	60	85	46	46	69	35	36	62	-10.9	-10.0	-6.4
279445	Upgrade	65	60	85	52	52	79	51	52	73	-0.4	0.1	-5.6
279449	Upgrade	65	60	85	41	41	64	44	45	67	2.7	3.5	3.4
279452	Upgrade	65	60	85	43	43	66	39	40	64	-4.2	-3.3	-1.5
279454	Upgrade	65	60	85	41	41	63	43	44	66	1.9	2.6	3.1
279457	Upgrade	65	60	85	44	44	66	37	38	62	-7.3	-6.6	-4.0
279458	Upgrade	65	60	85	44	44	67	36	37	61	-7.8	-7.1	-6.0
279461	Upgrade	65	60	85	45	45	67	45	46	67	-0.1	0.6	0.5
279462	Upgrade	65	60	85	54	54	80	53	54	77	-0.2	0.3	-3.0
279464	Upgrade	65	60	85	47	47	69	43	44	70	-3.8	-3.3	0.6
279469	Upgrade	65	60	85	44	44	66	42	43	67	-2.1	-1.6	0.7
279473	Upgrade	65	60	85	43	43	64	37	38	62	-6.1	-5.1	-1.9
279482	Upgrade	65	60	85	38	38	60	41	42	66	3.5	4.2	6.1
279484	Upgrade	65	60	85	46	46	69	35	36	61	-10.3	-9.6	-7.7
279500	Upgrade	65	60	85	44	44	64	38	39	64	-5.9	-4.9	0.1
279504	Upgrade	65	60	85	50	50	78	48	49	72	-1.3	-0.8	-6.3
279507	Upgrade	65	60	85	40	40	63	33	34	61	-7.1	-6.2	-1.4
279512	Upgrade	65	60	85	45	46	69	42	43	68	-3.2	-2.7	-0.3
279515	Upgrade	65	60	85	50	50	78	49	50	72	-0.6	0.0	-5.6
279517	Upgrade	65	60	85	41	41	64	35	36	63	-5.6	-4.7	-1.2
279533	Upgrade	65	60	85	44	44	66	39	40	64	-5.5	-4.8	-1.9
279540	Upgrade	65	60	85	42	42	65	34	35	59	-8.1	-7.3	-6.0
279561	Upgrade	65	60	85	50	50	75	50	51	73	-0.3	0.3	-2.2
279563	Upgrade	65	60	85	36	37	59	39	40	64	2.7	3.6	5.0
279569	Upgrade	65	60	85	44	45	67	39	40	65	-5.1	-4.7	-1.8
279574	Upgrade	65	60	85	54	54	83	53	54	78	-0.6	0.0	-5.2
279588	Upgrade	65	60	85	50	50	76	50	51	75	0.3	0.9	-1.1
279590	Upgrade	65	60	85	50	50	74	50	51	72	0.2	0.8	-1.6
279594	Upgrade	65	60	85	41	41	64	34	35	61	-7.4	-6.4	-3.5
279595	Upgrade	65	60	85	51	51	76	53	53	76	2.0	2.5	-0.7
279601	Upgrade	65	60	85	43	43	66	37	38	65	-5.7	-4.8	-1.1
279612	Upgrade	65	60	85	47	47	69	46	46	69	-0.9	-0.4	-0.4
279621	Upgrade	65	60	85	36	36	59	38	39	63	2.3	3.1	4.8
279622	Upgrade	65	60	85	53	54	79	56	57	81	2.5	3.3	2.1
279634	Upgrade	65	60	85	47	48	70	47	48	69	0.1	0.8	-1.0
279636	Upgrade	65	60	85	42	42	63	31	32	59	-10.8	-9.7	-4.4
279640	Upgrade	65	60	85	49	49	76	49	50	72	-0.1	0.7	-3.5
279643	Upgrade	65	60	85	53	53	78	55	56	80	1.8	2.5	1.8
279647	Upgrade	65	60	85	48	48	75	48	49	71	0.3	1.0	-4.0
279650	Upgrade	65	60	85	44	44	66	38	39	63	-5.7	-4.8	-2.9
279658	Upgrade	65	60	85	44	45	67	39	40	64	-5.6	-4.9	-2.9
279660	Upgrade	65	60	85	22	23	42	25	26	47	2.4	3.1	4.1
279661	Upgrade	65	60	85	46	47	69	45	46	70	-1.9	-1.2	1.2
279663	Upgrade	65	60	85	49	50	74	50	50	72	0.1	0.6	-2.0
279666	Upgrade	65	60	85	35	36	58	38	39	63	2.3	3.1	4.9
279682	Upgrade	65	60	85	51	52	74	53	54	77	1.5	2.2	2.7
279705	Upgrade	65	60	85	22	23	43	25	26	47	2.2	2.9	4.0
279707	Upgrade	65	60	85	44	45	67	36	37	64	-8.1	-7.2	-3.1



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
279715	Upgrade	65	60	85	46	46	70	43	44	70	-3.0	-2.2	0.3
279726	Upgrade	65	60	85	24	24	43	25	27	47	1.8	2.7	4.0
279728	Upgrade	65	60	85	50	50	74	50	51	75	0.4	1.0	0.8
279729	Upgrade	65	60	85	47	48	70	46	47	69	-1.3	-0.8	-0.4
279740	Upgrade	65	60	85	51	51	74	52	53	78	1.5	2.2	3.6
279741	Upgrade	65	60	85	48	49	70	48	49	70	-0.7	0.0	-0.5
279762	Upgrade	65	60	85	24	24	43	25	26	47	1.5	2.3	3.5
279765	Upgrade	65	60	85	25	26	45	27	28	49	1.5	2.3	4.3
279768	Upgrade	65	60	85	46	47	70	46	47	71	-0.4	0.3	1.3
279773	Upgrade	65	60	85	50	50	74	50	51	75	0.4	0.8	0.3
279774	Upgrade	65	60	85	46	46	69	41	42	68	-4.7	-4.1	-0.5
279794	Upgrade	65	60	85	50	50	73	51	52	75	1.2	1.9	1.6
279806	Upgrade	65	60	85	46	46	68	43	43	68	-3.2	-2.7	-0.1
279807	Upgrade	65	60	85	46	47	70	44	45	69	-1.9	-1.1	-0.9
279813	Upgrade	65	60	85	45	45	68	40	41	67	-4.8	-4.1	-1.0
279826	Upgrade	65	60	85	42	42	63	35	36	61	-6.8	-5.6	-2.6
279827	Upgrade	65	60	85	34	34	59	35	37	64	1.4	2.3	5.0
279831	Upgrade	65	60	85	45	45	68	42	43	68	-3.0	-2.2	-0.3
279832	Upgrade	65	60	85	44	44	67	39	40	66	-4.7	-4.0	-1.4
279834	Upgrade	65	60	85	52	53	77	54	55	79	1.9	2.6	2.1
279837	Upgrade	65	60	85	48	49	71	49	50	72	0.4	1.2	0.6
279843	Upgrade	65	60	85	51	51	75	54	55	78	2.5	3.2	2.6
279846	Upgrade	65	60	85	43	43	65	34	35	57	-9.1	-7.9	-7.8
279852	Upgrade	65	60	85	43	43	65	38	39	63	-4.8	-3.9	-1.4
279854	Upgrade	65	60	85	45	46	69	41	42	67	-4.1	-3.4	-1.7
279856	Upgrade	65	60	85	48	49	72	49	49	72	0.3	0.9	0.1
279868	Upgrade	65	60	85	41	41	64	38	39	64	-3.6	-2.4	0.2
279877	Upgrade	65	60	85	42	42	65	38	39	64	-3.6	-2.9	-0.4
279884	Upgrade	65	60	85	43	43	65	41	42	67	-1.5	-0.6	1.7
279888	Upgrade	65	60	85	43	43	65	36	38	64	-6.4	-5.2	-0.8
279894	Upgrade	65	60	85	41	41	62	38	39	63	-2.9	-2.0	1.0
279895	Upgrade	65	60	85	47	47	70	44	45	69	-3.0	-2.4	-0.9
279899	Upgrade	65	60	85	44	44	67	40	41	66	-4.4	-3.6	-1.3
279905	Upgrade	65	60	85	43	43	64	39	40	64	-3.8	-2.7	0.0
279907	Upgrade	65	60	85	41	41	62	39	40	64	-1.5	-0.7	1.9
279917	Upgrade	65	60	85	44	43	65	38	39	62	-6.0	-4.9	-2.8
279918	Upgrade	65	60	85	48	48	71	48	49	71	0.3	1.1	0.3
279931	Upgrade	65	60	85	44	44	66	39	40	64	-4.6	-3.6	-1.5
279933	Upgrade	65	60	85	47	47	70	43	44	69	-3.4	-2.8	-1.0
279941	Upgrade	65	60	85	48	48	72	45	46	70	-3.2	-2.4	-1.3
279946	Upgrade	65	60	85	42	42	66	40	41	64	-2.1	-1.0	-1.3
279947	Upgrade	65	60	85	51	51	74	52	53	76	1.0	1.6	2.0
279950	Upgrade	65	60	85	43	43	65	39	40	64	-3.5	-2.5	-1.0
279962	New	60	55	80	-	-	-	41	42	69	-	-	-
279964	New	60	55	80	-	-	-	46	47	72	-	-	-
279969	Upgrade	65	60	85	43	43	64	35	37	61	-7.3	-6.0	-3.2
279974	Upgrade	65	60	85	44	44	66	40	41	66	-3.7	-2.9	-0.1
279978	Upgrade	65	60	85	43	43	64	38	40	64	-4.3	-3.0	-0.2
279986	Upgrade	65	60	85	43	43	64	40	41	65	-3.0	-2.1	1.8
279993	Upgrade	65	60	85	38	38	61	42	43	67	3.6	4.4	6.0
279995	Upgrade	65	60	85	46	46	69	42	43	68	-3.4	-2.7	-1.1



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmix	LAeq,15hr	LAeq,9hr	LAmix	LAeq,15hr	LAeq,9hr	LAmix
279998	Upgrade	65	60	85	33	33	57	36	37	64	3.3	4.1	6.5
280003	Upgrade	65	60	85	26	27	48	30	31	52	3.5	4.3	4.2
280006	Upgrade	65	60	85	49	49	71	48	49	70	-1.0	-0.3	-0.6
280007	Upgrade	65	60	85	44	44	65	42	43	67	-2.3	-1.3	1.8
280010	Upgrade	65	60	85	33	33	57	36	38	64	3.6	4.5	7.1
280025	Upgrade	65	60	85	46	46	69	42	43	67	-4.1	-3.4	-2.0
280029	Upgrade	65	60	85	47	48	69	46	47	69	-1.3	-0.6	-0.2
280033	Upgrade	65	60	85	43	43	64	41	42	64	-2.9	-1.8	0.0
280054	Upgrade	65	60	85	30	30	55	36	37	63	6.2	7.0	8.2
280055	New	60	55	80	-	-	-	45	46	70	-	-	-
280062	Upgrade	65	60	85	42	42	64	39	40	63	-3.6	-2.7	-1.7
280064	Upgrade	65	60	85	40	40	63	42	43	68	2.5	3.5	4.7
280068	Upgrade	65	60	85	42	42	63	37	38	61	-5.1	-4.5	-2.1
280081	Upgrade	65	60	85	44	44	67	38	39	64	-6.1	-4.9	-3.3
280089	Upgrade	65	60	85	47	48	70	45	46	70	-1.9	-1.2	-0.4
280090	Upgrade	65	60	85	46	46	69	42	42	67	-4.2	-3.6	-1.6
280092	Upgrade	65	60	85	44	43	64	41	42	66	-3.0	-1.8	1.9
280103	Upgrade	65	60	85	44	44	64	37	38	61	-6.6	-5.6	-3.2
280114	Upgrade	65	60	85	30	30	55	34	35	62	3.9	4.7	7.5
280117	Upgrade	65	60	85	47	47	70	42	43	67	-5.3	-4.4	-2.4
280122	Upgrade	65	60	85	44	44	67	41	42	67	-2.4	-1.5	-0.3
280124	Upgrade	65	60	85	38	38	61	42	43	69	4.2	4.9	7.6
280126	Upgrade	65	60	85	46	47	69	43	44	70	-3.6	-2.9	0.4
280127	Upgrade	65	60	85	27	28	47	30	32	53	3.2	4.0	6.4
280128	Upgrade	65	60	85	48	49	71	48	49	70	-0.8	-0.1	-0.6
280134	New	60	55	80	-	-	-	43	44	67	-	-	-
280143	Upgrade	65	60	85	44	44	65	41	42	64	-3.3	-2.1	-0.4
280148	Upgrade	65	60	85	45	44	65	40	41	63	-4.4	-3.0	-1.8
280150	Upgrade	65	60	85	45	45	68	42	43	68	-2.8	-2.1	-0.1
280152	Upgrade	65	60	85	46	47	70	41	42	68	-5.1	-4.3	-1.6
280159	Upgrade	65	60	85	42	42	63	40	40	64	-2.3	-1.5	1.5
280160	Upgrade	65	60	85	44	44	64	41	42	65	-2.2	-1.1	0.5
280170	Upgrade	65	60	85	46	46	68	43	44	68	-2.9	-2.0	-0.5
280174	Upgrade	65	60	85	48	48	71	46	47	70	-2.1	-1.3	-1.0
280184	Upgrade	65	60	85	41	41	63	38	39	63	-3.3	-2.4	0.6
280212	Upgrade	65	60	85	44	45	67	42	43	67	-2.7	-1.9	-0.1
280215	Upgrade	65	60	85	43	43	63	40	41	64	-3.0	-1.7	1.1
280217	Upgrade	65	60	85	46	46	70	45	46	69	-1.4	-0.5	-1.2
280218	Upgrade	65	60	85	44	44	67	41	42	65	-3.4	-2.5	-2.6
280222	Upgrade	65	60	85	43	43	67	41	42	65	-1.6	-0.7	-2.3
280224	Upgrade	65	60	85	45	45	67	41	42	65	-3.8	-3.0	-1.7
280226	Upgrade	65	60	85	42	42	63	37	38	63	-5.0	-3.7	-0.2
280245	Upgrade	65	60	85	46	47	69	42	43	68	-4.6	-3.6	-1.9
280248	Upgrade	65	60	85	50	50	74	50	51	74	-0.2	0.5	-0.1
280249	Upgrade	65	60	85	48	49	72	42	43	70	-6.2	-5.5	-2.5
280256	Upgrade	65	60	85	42	42	65	39	40	64	-3.1	-2.2	-0.9
280263	Upgrade	65	60	85	49	49	72	46	47	71	-2.7	-2.0	-0.6
280267	Upgrade	65	60	85	37	38	61	42	43	65	4.8	5.6	4.0
280273	Upgrade	65	60	85	45	45	67	43	44	66	-1.8	-0.8	-1.0
280281	Upgrade	65	60	85	44	44	67	42	43	65	-2.1	-1.0	-1.7
280284	Upgrade	65	60	85	42	42	63	37	38	61	-5.1	-3.5	-1.7



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		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmix	LAeq,15hr	LAeq,9hr	LAmix	LAeq,15hr	LAeq,9hr	LAmix
280290	Upgrade	65	60	85	40	40	66	38	40	62	-2.2	-0.8	-4.0
280296	Upgrade	65	60	85	42	42	65	38	40	62	-3.7	-2.4	-2.6
280300	Upgrade	65	60	85	43	43	63	41	42	64	-2.5	-1.4	1.1
280301	Upgrade	65	60	85	42	42	62	38	39	63	-4.3	-3.1	1.0
280304	Upgrade	65	60	85	41	41	65	37	39	62	-3.6	-2.4	-2.8
280306	Upgrade	65	60	85	42	42	67	39	40	63	-3.5	-2.0	-3.5
280307	Upgrade	65	60	85	43	43	64	42	43	65	-1.4	-0.3	1.0
280310	Upgrade	65	60	85	43	43	62	42	43	65	-0.9	0.3	2.2
280323	Upgrade	65	60	85	47	48	71	44	45	69	-3.3	-2.6	-2.3
280325	Upgrade	65	60	85	43	43	64	42	43	65	-1.0	0.1	1.8
280333	Upgrade	65	60	85	42	42	64	35	36	60	-7.8	-5.9	-3.7
280336	Upgrade	65	60	85	40	40	64	37	38	60	-3.0	-1.8	-3.7
280339	Upgrade	65	60	85	43	43	63	42	43	66	-1.5	-0.3	2.7
280343	Upgrade	65	60	85	48	48	71	42	43	69	-5.3	-4.6	-2.3
280348	Upgrade	65	60	85	44	44	68	40	41	64	-4.0	-2.7	-4.2
280352	Upgrade	65	60	85	44	44	67	38	39	64	-6.1	-4.9	-3.6
280360	Upgrade	65	60	85	49	50	73	49	50	72	-0.5	0.3	-1.4
280367	Upgrade	65	60	85	48	49	72	46	47	71	-2.1	-1.3	-0.3
280368	Upgrade	65	60	85	44	44	68	40	41	65	-4.1	-2.7	-3.0
280371	Upgrade	65	60	85	39	39	63	45	46	68	5.8	6.6	5.4
280372	Upgrade	65	60	85	45	45	68	38	39	61	-6.8	-5.6	-6.4
280375	Upgrade	65	60	85	44	44	68	39	41	64	-4.8	-3.4	-4.2
280377	Upgrade	65	60	85	39	39	62	42	44	67	3.8	4.7	5.1
280378	Upgrade	65	60	85	44	44	64	40	41	62	-4.0	-2.7	-2.4
280379	Upgrade	65	60	85	44	44	66	36	37	58	-8.3	-6.7	-8.1
280389	Upgrade	65	60	85	44	44	66	38	40	64	-5.9	-4.5	-2.3
280390	Upgrade	65	60	85	46	46	68	39	40	64	-6.3	-5.3	-4.6
280396	Upgrade	65	60	85	39	39	62	43	44	67	4.2	5.1	4.9
280397	Upgrade	65	60	85	45	45	67	40	42	65	-4.8	-3.6	-2.2
280404	Upgrade	65	60	85	41	41	64	45	46	70	4.1	4.9	5.4
280408	Upgrade	65	60	85	45	45	67	40	41	62	-5.4	-4.3	-5.2
280410	Upgrade	65	60	85	44	44	65	40	41	64	-4.1	-3.0	-1.7
280412	Upgrade	65	60	85	46	46	69	40	41	61	-6.6	-5.3	-7.5
280413	Upgrade	65	60	85	50	50	73	48	49	72	-2.4	-1.7	-1.3
280415	Upgrade	65	60	85	49	49	72	43	44	66	-6.1	-5.3	-5.8
280435	Upgrade	65	60	85	49	49	72	45	45	71	-4.0	-3.6	-1.5
280437	Upgrade	65	60	85	43	42	64	39	40	62	-4.0	-2.6	-2.3
280442	Upgrade	65	60	85	43	43	65	39	40	62	-4.5	-2.9	-2.7
280444	Upgrade	65	60	85	44	43	64	40	41	64	-3.7	-2.4	0.9
280445	Upgrade	65	60	85	49	49	74	47	48	74	-1.7	-1.3	0.2
280464	Upgrade	65	60	85	43	43	65	38	39	64	-4.9	-3.3	-1.0
280466	Upgrade	65	60	85	50	50	74	47	48	71	-2.4	-1.8	-2.4
280475	Upgrade	65	60	85	38	39	62	42	44	68	3.9	4.8	5.7
280494	Upgrade	65	60	85	43	43	65	39	40	64	-4.3	-2.7	-1.2
280505	Upgrade	65	60	85	44	43	65	38	39	60	-5.9	-4.5	-4.9
280515	Upgrade	65	60	85	46	46	71	45	46	68	-0.5	0.1	-3.8
280524	Upgrade	65	60	85	32	33	56	34	35	58	1.4	2.2	2.0
280527	Upgrade	65	60	85	45	45	68	37	38	60	-8.4	-7.2	-8.2
280531	Upgrade	65	60	85	41	42	65	45	46	70	3.7	4.7	5.5
280535	Upgrade	65	60	85	44	44	69	35	36	59	-9.6	-8.2	-10.2
280542	Upgrade	65	60	85	45	45	70	38	39	63	-6.9	-5.9	-6.7



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
280548	Upgrade	65	60	85	40	40	63	44	46	68	4.8	5.6	4.5
280553	Upgrade	65	60	85	45	45	69	42	43	64	-3.7	-2.7	-5.0
280561	Upgrade	65	60	85	46	46	68	40	41	64	-5.5	-4.3	-3.5
280570	Upgrade	65	60	85	45	45	69	43	44	67	-1.6	-0.5	-2.8
280576	Upgrade	65	60	85	48	48	71	44	45	71	-3.3	-2.7	-0.9
280578	Upgrade	65	60	85	48	48	71	43	44	69	-4.4	-3.8	-2.0
280583	Upgrade	65	60	85	44	43	66	39	40	62	-4.9	-3.2	-4.1
280586	Upgrade	65	60	85	49	49	72	46	47	71	-2.7	-1.8	-1.7
280591	Upgrade	65	60	85	46	46	68	41	42	64	-4.9	-3.8	-4.1
280592	Upgrade	65	60	85	48	48	71	45	46	71	-2.4	-1.8	0.6
280595	Upgrade	65	60	85	43	43	65	38	39	62	-5.7	-4.2	-2.6
280603	Upgrade	65	60	85	43	43	69	34	35	58	-9.0	-7.7	-10.7
280604	Upgrade	65	60	85	44	43	66	38	39	63	-5.4	-3.5	-3.9
280605	Upgrade	65	60	85	46	46	72	40	41	64	-5.6	-4.5	-7.9
280609	Upgrade	65	60	85	47	48	70	44	45	69	-3.3	-2.6	-1.5
280612	Upgrade	65	60	85	44	43	66	39	39	61	-5.6	-4.1	-4.7
280621	Upgrade	65	60	85	44	44	66	40	41	65	-4.0	-2.5	-1.7
280622	Upgrade	65	60	85	26	26	52	32	33	54	6.1	6.7	2.2
280623	Upgrade	65	60	85	46	46	68	41	42	64	-4.7	-3.5	-4.1
280627	Upgrade	65	60	85	48	48	72	45	45	69	-3.0	-2.3	-3.0
280640	Upgrade	65	60	85	45	45	69	44	45	67	-1.6	-0.6	-2.3
280647	Upgrade	65	60	85	47	47	70	44	45	68	-3.1	-2.3	-2.2
280649	Upgrade	65	60	85	45	45	69	42	43	66	-3.3	-2.2	-3.3
280661	Upgrade	65	60	85	46	46	69	44	45	68	-2.4	-1.5	-0.3
280671	Upgrade	65	60	85	49	49	73	47	48	71	-2.3	-1.4	-1.5
280673	Upgrade	65	60	85	45	44	67	39	40	62	-6.0	-4.2	-5.0
280674	Upgrade	65	60	85	46	47	71	43	45	67	-3.0	-2.0	-3.5
280675	Upgrade	65	60	85	45	45	68	42	43	65	-3.0	-2.4	-2.5
280677	Upgrade	65	60	85	45	45	70	41	43	66	-3.3	-2.2	-3.8
280684	Upgrade	65	60	85	46	45	69	40	41	65	-5.8	-3.9	-4.0
280687	Upgrade	65	60	85	35	36	59	36	37	61	0.4	1.3	1.5
280691	Upgrade	65	60	85	49	49	73	47	48	72	-1.8	-1.0	-0.8
280697	Upgrade	65	60	85	49	49	74	45	46	71	-3.5	-2.8	-2.6
280698	Upgrade	65	60	85	46	46	69	44	45	67	-2.1	-1.3	-2.0
280699	Upgrade	65	60	85	50	50	74	47	48	73	-2.4	-1.7	-1.7
280700	Upgrade	65	60	85	51	52	76	49	50	74	-2.0	-1.2	-1.4
280709	Upgrade	65	60	85	46	46	70	42	43	67	-4.0	-2.8	-3.7
280711	Upgrade	65	60	85	39	39	63	42	43	70	3.4	4.3	6.4
280722	Upgrade	65	60	85	46	46	68	41	42	63	-5.0	-3.9	-4.9
280730	Upgrade	65	60	85	46	46	72	41	42	64	-5.4	-4.6	-8.0
280735	Upgrade	65	60	85	46	46	71	43	43	67	-3.0	-2.3	-3.6
280739	Upgrade	65	60	85	47	47	73	44	45	68	-2.9	-1.9	-4.5
280756	Upgrade	65	60	85	32	32	55	34	35	57	2.3	3.2	2.6
280762	Upgrade	65	60	85	48	48	72	42	43	66	-6.2	-5.2	-5.8
280764	Upgrade	65	60	85	48	48	74	46	47	70	-1.4	-0.6	-3.5
280768	Upgrade	65	60	85	48	48	73	43	45	69	-4.6	-3.6	-4.6
280773	Upgrade	65	60	85	46	46	72	40	41	66	-6.5	-5.4	-6.7
280786	Upgrade	65	60	85	47	47	73	44	45	68	-3.0	-2.0	-4.8
280802	Upgrade	65	60	85	49	49	73	47	48	72	-1.6	-1.0	-0.5
280805	Upgrade	65	60	85	45	45	67	41	42	64	-4.2	-3.2	-3.6
280807	Upgrade	65	60	85	44	43	67	41	42	64	-3.1	-1.5	-2.5



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		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmix	LAeq,15hr	LAeq,9hr	LAmix	LAeq,15hr	LAeq,9hr	LAmix
280808	Upgrade	65	60	85	48	48	73	42	44	67	-5.5	-4.6	-5.8
280811	Upgrade	65	60	85	44	44	66	39	40	63	-5.2	-4.0	-3.4
280812	Upgrade	65	60	85	47	47	73	41	42	65	-5.8	-5.0	-7.5
280815	Upgrade	65	60	85	38	38	62	40	41	68	2.4	3.3	6.1
280817	Upgrade	65	60	85	44	44	68	49	50	75	4.8	5.6	6.4
280818	Upgrade	65	60	85	49	49	76	44	46	70	-4.2	-3.3	-5.6
280819	Upgrade	65	60	85	47	47	73	45	46	71	-2.4	-1.7	-1.7
280820	Upgrade	65	60	85	47	47	72	43	44	66	-4.1	-3.0	-6.6
280823	Upgrade	65	60	85	49	49	76	48	49	72	-0.6	0.0	-4.3
280833	Upgrade	65	60	85	50	50	73	48	49	72	-1.4	-0.8	-1.4
280835	Upgrade	65	60	85	47	47	71	42	43	66	-4.7	-3.6	-5.5
280839	Upgrade	65	60	85	46	46	71	43	44	68	-3.5	-2.6	-3.2
280842	Upgrade	65	60	85	39	40	63	44	45	70	5.1	5.8	6.8
280849	Upgrade	65	60	85	47	48	72	43	44	69	-4.1	-3.1	-3.9
280850	Upgrade	65	60	85	47	47	73	43	45	68	-3.6	-2.7	-5.1
280857	Upgrade	65	60	85	46	46	71	41	42	65	-4.9	-3.8	-5.6
280874	Upgrade	65	60	85	47	47	72	43	44	66	-3.8	-3.0	-6.6
280875	Upgrade	65	60	85	45	45	67	41	42	66	-3.7	-2.7	-1.5
280879	Upgrade	65	60	85	48	48	73	43	44	68	-4.3	-3.6	-5.0
280886	Upgrade	65	60	85	50	50	76	46	47	71	-4.5	-3.8	-5.4
280888	Upgrade	65	60	85	48	48	75	46	47	70	-1.8	-1.2	-4.9
280889	Upgrade	65	60	85	43	43	67	39	40	64	-4.3	-2.4	-3.7
280890	Upgrade	65	60	85	47	48	74	43	44	66	-4.1	-3.3	-7.7
280891	Upgrade	65	60	85	44	44	66	41	42	64	-3.9	-2.6	-1.7
280897	Upgrade	65	60	85	47	47	72	44	45	68	-3.1	-2.2	-4.0
280898	Upgrade	65	60	85	47	48	73	43	44	67	-4.7	-3.7	-5.7
280899	Upgrade	65	60	85	52	52	77	49	50	74	-3.1	-2.5	-2.4
280903	Upgrade	65	60	85	47	47	72	39	40	65	-7.5	-6.6	-6.7
280906	Upgrade	65	60	85	38	39	62	38	39	64	-0.4	0.5	1.3
280909	Upgrade	65	60	85	51	52	77	47	48	74	-4.1	-3.6	-2.9
280913	Upgrade	65	60	85	47	47	73	41	42	66	-5.9	-4.7	-7.7
280915	Upgrade	65	60	85	47	47	72	40	41	64	-7.0	-6.0	-8.2
280917	Upgrade	65	60	85	21	22	42	27	28	47	5.7	6.6	4.7
280919	Upgrade	65	60	85	48	48	74	43	44	68	-5.0	-4.1	-6.0
280930	Upgrade	65	60	85	51	51	76	47	47	73	-4.4	-4.0	-2.7
280934	Upgrade	65	60	85	50	50	77	44	45	71	-6.0	-5.1	-5.7
280935	Upgrade	65	60	85	48	48	73	41	42	65	-7.2	-6.1	-7.8
280936	Upgrade	65	60	85	47	47	73	41	42	66	-6.4	-5.6	-6.4
280941	Upgrade	65	60	85	46	47	73	40	41	67	-6.2	-5.4	-5.9
280942	Upgrade	65	60	85	45	45	67	41	42	65	-4.5	-3.3	-2.8
280943	Upgrade	65	60	85	48	48	75	45	46	67	-3.6	-2.8	-7.5
280946	Upgrade	65	60	85	51	51	76	49	49	74	-2.2	-1.6	-1.7
280948	Upgrade	65	60	85	48	48	71	39	41	64	-8.3	-7.1	-7.4
280949	Upgrade	65	60	85	51	51	76	47	47	73	-4.0	-3.5	-2.7
280952	Upgrade	65	60	85	48	48	74	42	43	68	-5.5	-4.6	-6.3
280962	Upgrade	65	60	85	46	46	71	41	42	65	-5.6	-4.4	-5.7
280963	Upgrade	65	60	85	48	48	71	39	40	64	-9.0	-8.2	-6.9
280969	Upgrade	65	60	85	49	49	76	45	46	71	-3.8	-3.0	-5.6
280972	Upgrade	65	60	85	47	47	72	44	45	67	-3.4	-2.6	-5.1
280974	Upgrade	65	60	85	51	52	77	48	48	75	-3.8	-3.3	-2.0
280978	Upgrade	65	60	85	46	46	71	38	39	63	-8.3	-7.2	-7.7



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
280979	Upgrade	65	60	85	49	49	75	42	43	68	-6.3	-5.5	-7.2
280981	Upgrade	65	60	85	47	47	72	39	40	62	-7.8	-6.7	-10.3
280989	Upgrade	65	60	85	39	40	64	39	40	68	-0.6	0.3	4.3
280992	Upgrade	65	60	85	49	49	75	44	45	69	-4.7	-3.9	-6.0
280993	Upgrade	65	60	85	47	47	73	39	40	65	-7.4	-6.5	-8.0
280997	Upgrade	65	60	85	45	44	69	39	40	63	-5.8	-3.8	-5.9
280998	Upgrade	65	60	85	45	44	67	41	42	65	-3.4	-1.9	-2.2
281001	Upgrade	65	60	85	46	46	71	39	40	63	-7.4	-6.3	-8.6
281003	Upgrade	65	60	85	47	47	74	42	43	66	-4.8	-3.9	-8.1
281007	Upgrade	65	60	85	48	48	74	42	43	68	-5.6	-4.6	-5.7
281012	Upgrade	65	60	85	49	50	75	45	45	70	-4.8	-4.3	-5.9
281019	Upgrade	65	60	85	48	48	74	39	40	64	-9.4	-8.5	-10.1
281023	Upgrade	65	60	85	52	53	79	49	49	74	-3.7	-3.2	-4.5
281027	Upgrade	65	60	85	49	49	76	41	42	68	-7.6	-6.8	-8.0
281028	Upgrade	65	60	85	48	48	73	42	43	66	-5.4	-4.5	-7.4
281029	Upgrade	65	60	85	37	38	61	41	42	64	3.8	4.6	2.3
281032	Upgrade	65	60	85	44	44	70	40	41	63	-4.5	-3.5	-7.5
281034	Upgrade	65	60	85	47	47	72	40	41	65	-6.9	-5.8	-6.8
281035	Upgrade	65	60	85	46	46	71	39	40	64	-6.9	-6.0	-6.7
281039	Upgrade	65	60	85	45	44	66	40	41	63	-4.4	-3.0	-3.2
281042	Upgrade	65	60	85	50	50	74	56	56	80	5.7	6.1	5.6
281045	Upgrade	65	60	85	48	49	75	43	44	68	-5.5	-4.8	-7.0
281053	Upgrade	65	60	85	45	44	69	38	39	62	-6.8	-5.3	-7.0
281060	Upgrade	65	60	85	46	46	71	38	39	63	-7.9	-6.6	-8.6
281061	Upgrade	65	60	85	50	51	76	47	48	73	-3.3	-2.8	-3.0
281065	Upgrade	65	60	85	47	47	73	41	42	66	-6.0	-5.1	-7.3
281076	Upgrade	65	60	85	45	44	68	39	40	63	-5.8	-4.1	-4.5
281077	Upgrade	65	60	85	49	50	78	45	46	71	-4.3	-3.9	-6.4
281078	Upgrade	65	60	85	48	48	74	41	42	67	-6.9	-5.9	-7.6
281079	Upgrade	65	60	85	55	55	81	49	50	75	-6.1	-5.4	-5.9
281083	Upgrade	65	60	85	45	45	67	42	43	64	-3.4	-1.8	-3.5
281084	Upgrade	65	60	85	45	45	69	39	40	63	-6.0	-4.6	-5.5
281087	Upgrade	65	60	85	49	49	74	45	46	70	-4.0	-3.2	-3.6
281088	Upgrade	65	60	85	48	48	73	41	42	64	-7.1	-6.0	-8.7
281089	Upgrade	65	60	85	47	47	71	38	39	63	-8.4	-7.3	-8.6
281092	Upgrade	65	60	85	55	55	81	48	49	74	-7.0	-6.4	-6.9
281093	Upgrade	65	60	85	47	47	72	41	42	66	-6.4	-5.4	-5.4
281097	Upgrade	65	60	85	46	46	71	39	41	64	-6.3	-5.3	-6.8
281098	Upgrade	65	60	85	47	47	70	39	40	65	-7.5	-6.3	-5.3
281100	Upgrade	65	60	85	49	49	75	43	44	66	-5.6	-4.8	-9.0
281101	Upgrade	65	60	85	47	48	74	38	39	63	-9.0	-8.2	-10.8
281104	Upgrade	65	60	85	55	56	81	47	48	74	-7.9	-7.5	-7.4
281105	Upgrade	65	60	85	46	45	69	40	41	65	-6.1	-4.0	-4.3
281114	Upgrade	65	60	85	47	48	74	43	44	67	-4.3	-3.3	-6.4
281115	Upgrade	65	60	85	47	47	72	41	42	65	-6.0	-5.2	-7.2
281119	Upgrade	65	60	85	47	47	71	40	41	64	-6.9	-5.8	-7.2
281125	Upgrade	65	60	85	55	56	81	47	48	74	-8.3	-7.8	-7.7
281127	Upgrade	65	60	85	47	48	71	42	43	64	-5.7	-4.8	-6.5
281128	Upgrade	65	60	85	48	49	76	44	45	68	-4.5	-3.7	-8.3
281130	Upgrade	65	60	85	47	47	71	37	38	62	-10.5	-9.4	-9.6
281134	Upgrade	65	60	85	55	55	81	49	50	75	-5.9	-5.4	-5.5



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
281140	Upgrade	65	60	85	48	48	75	40	41	64	-8.0	-7.2	-10.9
281145	Upgrade	65	60	85	50	50	77	48	49	73	-1.5	-1.1	-4.6
281146	Upgrade	65	60	85	50	50	77	42	44	68	-7.1	-6.3	-9.3
281148	Upgrade	65	60	85	47	47	70	40	41	66	-7.3	-6.0	-3.6
281150	Upgrade	65	60	85	46	46	69	39	40	65	-6.6	-5.5	-3.1
281156	Upgrade	65	60	85	55	55	81	47	48	73	-7.8	-7.2	-8.6
281158	Upgrade	65	60	85	48	48	74	42	43	65	-6.2	-5.4	-8.2
281162	Upgrade	65	60	85	46	46	71	41	42	64	-4.6	-3.8	-7.2
281165	Upgrade	65	60	85	51	52	78	44	45	67	-7.1	-6.5	-10.3
281167	Upgrade	65	60	85	50	50	77	46	47	70	-3.5	-3.2	-6.7
281169	Upgrade	65	60	85	42	42	67	40	42	64	-1.9	-0.5	-3.1
281170	Upgrade	65	60	85	29	29	51	40	41	65	10.7	11.5	13.5
281172	Upgrade	65	60	85	48	49	74	43	44	67	-5.9	-5.1	-7.7
281179	Upgrade	65	60	85	45	45	67	39	40	64	-5.8	-4.4	-3.7
281181	Upgrade	65	60	85	48	48	74	40	41	65	-8.5	-7.6	-9.5
281189	Upgrade	65	60	85	43	43	68	38	39	62	-5.4	-4.0	-5.1
281190	Upgrade	65	60	85	48	48	74	43	44	66	-5.0	-4.3	-7.6
281199	Upgrade	65	60	85	44	44	66	40	41	64	-4.7	-3.5	-1.7
281203	Upgrade	65	60	85	50	50	77	45	46	70	-4.4	-4.3	-6.7
281206	Upgrade	65	60	85	48	48	74	41	42	65	-7.3	-6.3	-9.6
281209	Upgrade	65	60	85	55	55	79	48	49	73	-7.3	-6.8	-6.6
281212	Upgrade	65	60	85	43	42	67	39	40	64	-3.6	-2.4	-3.3
281220	Upgrade	65	60	85	51	52	78	45	46	69	-6.7	-6.0	-9.4
281221	Upgrade	65	60	85	55	55	80	46	47	72	-9.1	-8.8	-8.1
281227	Upgrade	65	60	85	49	49	75	40	41	66	-8.5	-7.7	-9.4
281239	Upgrade	65	60	85	49	49	75	40	41	64	-9.2	-8.1	-10.9
281243	Upgrade	65	60	85	50	50	77	44	45	68	-5.5	-5.0	-8.7
281246	Upgrade	65	60	85	44	44	68	39	40	63	-5.4	-3.6	-4.6
281254	Upgrade	65	60	85	52	52	77	45	46	71	-6.6	-6.2	-6.2
281256	Upgrade	65	60	85	48	48	75	40	41	64	-8.3	-7.3	-11.0
281259	Upgrade	65	60	85	55	56	81	47	47	73	-8.5	-8.1	-7.7
281261	Upgrade	65	60	85	50	50	76	39	40	63	-11.2	-10.4	-12.6
281262	Upgrade	65	60	85	46	46	68	41	42	66	-5.1	-4.1	-2.6
281267	Upgrade	65	60	85	47	47	74	39	40	63	-7.7	-6.7	-11.7
281269	Upgrade	65	60	85	42	42	66	39	40	63	-3.4	-2.1	-3.8
281270	Upgrade	65	60	85	25	26	45	38	39	61	12.8	13.7	16.7
281274	Upgrade	65	60	85	47	47	74	39	40	63	-8.5	-7.4	-10.9
281276	Upgrade	65	60	85	48	48	75	38	39	64	-10.1	-9.1	-10.5
281277	Upgrade	65	60	85	49	49	75	41	42	65	-8.3	-7.4	-10.7
281281	Upgrade	65	60	85	22	22	42	28	29	48	6.1	6.9	5.9
281282	Upgrade	65	60	85	51	52	76	45	46	71	-6.5	-6.1	-5.6
281285	Upgrade	65	60	85	55	56	81	46	47	71	-8.8	-8.5	-10.1
281291	Upgrade	65	60	85	44	44	70	38	39	63	-6.2	-4.9	-6.6
281293	Upgrade	65	60	85	44	44	68	39	40	63	-5.4	-3.5	-4.6
281299	Upgrade	65	60	85	51	51	77	45	46	70	-5.9	-5.3	-6.8
281305	Upgrade	65	60	85	55	56	79	45	46	71	-9.9	-9.7	-8.7
281313	Upgrade	65	60	85	45	44	68	40	41	63	-4.6	-3.3	-4.7
281314	Upgrade	65	60	85	44	43	66	39	40	63	-5.3	-3.6	-3.6
281315	Upgrade	65	60	85	50	51	76	44	45	68	-6.7	-6.1	-7.9
281316	Upgrade	65	60	85	52	52	77	40	41	65	-11.6	-10.9	-12.1
281318	Upgrade	65	60	85	51	52	78	42	44	66	-9.0	-8.1	-11.8



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA				Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	
281320	Upgrade	65	60	85	85	55	56	82	46	46	71	-9.6	-9.4	-10.5
281330	Upgrade	65	60	85	51	51	75	45	46	70	-5.6	-5.1	-5.1	
281335	Upgrade	65	60	85	45	44	69	39	40	63	-5.9	-4.6	-5.7	
281337	Upgrade	65	60	85	47	47	71	42	43	66	-4.9	-4.1	-5.2	
281339	Upgrade	65	60	85	55	55	81	46	47	70	-8.8	-8.6	-10.9	
281340	Upgrade	65	60	85	52	52	78	41	42	67	-10.9	-10.1	-10.6	
281349	Upgrade	65	60	85	44	44	68	40	41	64	-4.8	-2.8	-4.0	
281350	Upgrade	65	60	85	52	53	76	40	41	67	-12.0	-11.2	-9.6	
281360	Upgrade	65	60	85	53	53	77	41	42	68	-11.9	-11.2	-8.9	
281363	Upgrade	65	60	85	55	56	81	47	48	72	-8.0	-7.8	-9.0	
281372	Upgrade	65	60	85	46	46	69	41	42	66	-5.1	-4.0	-3.3	
281376	Upgrade	65	60	85	42	42	67	40	41	63	-2.5	-1.0	-3.3	
281378	Upgrade	65	60	85	55	55	81	46	47	72	-8.9	-8.3	-9.0	
281379	Upgrade	65	60	85	52	53	76	40	41	65	-12.3	-11.4	-11.7	
281383	Upgrade	65	60	85	53	53	76	41	42	67	-11.1	-10.5	-9.8	
281398	Upgrade	65	60	85	52	53	77	41	41	66	-11.8	-11.3	-10.9	
281399	Upgrade	65	60	85	47	47	74	41	42	63	-6.3	-5.2	-11.1	
281400	Upgrade	65	60	85	46	46	71	40	41	63	-5.7	-4.6	-8.5	
281407	Upgrade	65	60	85	45	44	69	39	40	64	-6.2	-4.2	-5.6	
281414	Upgrade	65	60	85	52	53	76	43	43	68	-9.8	-9.3	-8.5	
281415	Upgrade	65	60	85	55	56	80	44	45	70	-10.8	-10.3	-9.4	
281416	Upgrade	65	60	85	47	47	75	39	39	61	-8.1	-7.3	-14.4	
281421	Upgrade	65	60	85	46	46	71	41	42	63	-4.8	-3.6	-7.7	
281427	Upgrade	65	60	85	52	53	76	41	42	66	-11.4	-10.9	-10.6	
281428	Upgrade	65	60	85	47	47	72	39	40	62	-7.8	-6.8	-10.2	
281430	Upgrade	65	60	85	43	43	68	39	40	64	-3.8	-2.4	-4.4	
281437	Upgrade	65	60	85	55	55	81	45	45	69	-10.5	-10.1	-12.3	
281444	Upgrade	65	60	85	52	53	76	42	42	65	-10.7	-10.1	-11.4	
281445	Upgrade	65	60	85	52	53	77	40	41	65	-12.4	-11.9	-11.6	
281448	Upgrade	65	60	85	47	47	71	42	43	64	-5.7	-4.7	-6.6	
281451	Upgrade	65	60	85	45	44	68	40	41	64	-4.8	-2.9	-4.0	
281452	Upgrade	65	60	85	47	47	72	41	42	65	-5.8	-4.7	-7.4	
281454	Upgrade	65	60	85	55	56	82	44	45	71	-11.1	-10.7	-10.6	
281464	Upgrade	65	60	85	55	55	81	43	44	70	-11.9	-11.1	-10.8	
281465	Upgrade	65	60	85	27	27	52	39	40	62	12.3	13.2	11.3	
281467	Upgrade	65	60	85	47	47	72	42	43	64	-5.6	-4.2	-8.0	
281468	Upgrade	65	60	85	52	52	76	40	40	65	-12.5	-12.0	-11.5	
281479	Upgrade	65	60	85	44	43	68	40	41	64	-3.7	-2.4	-4.7	
281482	Upgrade	65	60	85	55	55	79	42	43	70	-12.5	-11.7	-9.0	
281484	Upgrade	65	60	85	52	53	77	41	41	66	-11.9	-11.3	-10.7	
281491	Upgrade	65	60	85	52	52	77	40	41	65	-12.4	-11.8	-11.2	
281499	Upgrade	65	60	85	55	55	81	44	45	68	-11.0	-10.5	-13.0	
281507	Upgrade	65	60	85	46	45	70	40	41	65	-5.7	-3.8	-5.2	
281512	Upgrade	65	60	85	51	51	76	41	41	65	-9.9	-9.3	-11.5	
281520	Upgrade	65	60	85	55	55	80	44	45	68	-10.7	-10.1	-11.7	
281524	Upgrade	65	60	85	53	53	79	43	44	67	-9.6	-9.0	-12.4	
281526	Upgrade	65	60	85	54	54	79	45	46	70	-9.4	-8.7	-9.9	
281528	Upgrade	65	60	85	46	45	70	39	40	62	-7.6	-5.5	-8.0	
281537	Upgrade	65	60	85	48	48	73	39	40	64	-8.9	-7.9	-8.9	
281539	Upgrade	65	60	85	46	46	70	40	41	63	-5.6	-4.3	-7.1	
281543	Upgrade	65	60	85	49	49	73	40	41	64	-9.1	-8.2	-8.7	



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
281544	Upgrade	65	60	85	49	49	75	40	41	63	-9.0	-8.0	-11.9
281548	Upgrade	65	60	85	21	21	42	28	29	47	6.8	7.5	5.8
281555	Upgrade	65	60	85	50	50	76	40	41	65	-9.3	-8.6	-11.8
281557	Upgrade	65	60	85	48	46	72	39	40	63	-9.3	-6.7	-8.8
281563	Upgrade	65	60	85	47	46	69	42	43	64	-5.0	-3.7	-5.2
281567	Upgrade	65	60	85	49	49	74	40	41	66	-8.5	-7.8	-8.5
281574	Upgrade	65	60	85	48	48	70	39	40	64	-8.8	-7.8	-6.5
281581	Upgrade	65	60	85	20	21	41	27	28	47	7.0	7.6	5.3
281582	Upgrade	65	60	85	27	27	52	39	41	62	12.9	13.6	10.7
281585	Upgrade	65	60	85	46	46	72	40	41	63	-5.5	-5.0	-9.1
281587	Upgrade	65	60	85	54	55	80	45	45	70	-9.7	-9.3	-10.8
281591	Upgrade	65	60	85	49	47	74	39	40	64	-9.5	-7.0	-9.9
281601	Upgrade	65	60	85	48	47	73	41	42	65	-6.1	-5.1	-7.9
281604	Upgrade	65	60	85	46	46	70	40	42	65	-6.0	-4.5	-5.3
281610	Upgrade	65	60	85	48	48	72	41	42	66	-6.9	-5.4	-6.1
281631	Upgrade	65	60	85	27	27	51	37	38	60	10.2	10.9	9.3
281634	Upgrade	65	60	85	48	47	70	42	43	66	-5.9	-4.9	-4.8
281635	Upgrade	65	60	85	54	54	78	42	43	67	-11.6	-10.9	-11.2
281638	Upgrade	65	60	85	45	45	69	41	42	64	-4.2	-3.2	-4.4
281639	Upgrade	65	60	85	51	51	77	36	37	59	-14.6	-14.0	-18.0
281647	Upgrade	65	60	85	47	46	69	41	42	63	-5.7	-4.2	-5.7
281650	Upgrade	65	60	85	48	47	72	41	42	65	-7.0	-5.1	-7.1
281652	Upgrade	65	60	85	47	46	74	40	41	65	-7.6	-5.1	-9.3
281653	Upgrade	65	60	85	55	55	82	45	45	69	-10.0	-9.4	-13.2
281662	Upgrade	65	60	85	52	52	77	38	39	61	-13.3	-12.5	-15.9
281680	Upgrade	65	60	85	51	51	78	40	41	65	-10.8	-9.9	-13.0
281681	Upgrade	65	60	85	47	46	70	41	42	65	-6.2	-4.6	-5.3
281684	Upgrade	65	60	85	46	45	71	41	42	65	-5.7	-3.5	-6.1
281686	Upgrade	65	60	85	51	51	76	40	41	62	-11.3	-10.3	-14.5
281691	Upgrade	65	60	85	47	47	70	42	43	65	-5.5	-3.9	-4.9
281694	Upgrade	65	60	85	49	49	77	42	43	65	-7.0	-6.1	-12.7
281702	Upgrade	65	60	85	47	47	70	41	42	65	-6.4	-4.8	-5.5
281705	Upgrade	65	60	85	50	50	77	40	41	62	-10.0	-9.1	-14.9
281714	Upgrade	65	60	85	56	56	84	46	46	69	-10.4	-10.0	-14.8
281720	Upgrade	65	60	85	47	47	75	40	41	62	-7.7	-6.4	-13.2
281723	Upgrade	65	60	85	48	48	74	40	42	63	-7.8	-6.3	-10.9
281731	Upgrade	65	60	85	47	45	72	40	41	65	-6.7	-4.4	-7.4
281738	Upgrade	65	60	85	51	51	78	39	40	65	-12.0	-11.0	-12.4
281743	Upgrade	65	60	85	48	48	71	43	44	68	-4.7	-3.1	-3.6
281745	Upgrade	65	60	85	49	49	75	41	42	65	-8.3	-7.0	-10.9
281747	Upgrade	65	60	85	27	27	52	39	40	62	12.2	13.0	9.5
281759	Upgrade	65	60	85	52	52	77	38	39	60	-14.0	-13.0	-16.8
281770	Upgrade	65	60	85	45	45	71	41	42	64	-4.7	-3.2	-7.4
281776	Upgrade	65	60	85	49	49	74	40	41	64	-9.0	-7.9	-10.3
281779	Upgrade	65	60	85	46	45	71	38	39	62	-7.7	-5.6	-8.8
281793	Upgrade	65	60	85	59	60	87	46	47	69	-13.3	-12.8	-17.6
281794	Upgrade	65	60	85	47	47	72	40	41	64	-7.0	-5.4	-7.7
281796	Upgrade	65	60	85	46	46	70	39	40	63	-6.9	-5.1	-6.6
281798	Upgrade	65	60	85	54	54	80	41	42	64	-12.8	-12.0	-15.9
281800	Upgrade	65	60	85	52	52	79	40	41	63	-11.9	-11.2	-15.3
281802	Upgrade	65	60	85	55	55	80	41	42	64	-13.5	-12.8	-16.0



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
281809	Upgrade	65	60	85	48	47	73	40	41	65	-8.2	-5.7	-7.7
281814	Upgrade	65	60	85	28	28	53	43	44	66	14.8	15.4	12.5
281826	Upgrade	65	60	85	47	46	71	40	41	65	-7.3	-5.4	-5.9
281848	Upgrade	65	60	85	47	47	73	39	40	63	-8.3	-6.9	-10.2
281858	Upgrade	65	60	85	49	49	76	41	42	64	-8.2	-7.2	-12.4
281867	Upgrade	65	60	85	51	49	76	41	42	66	-9.7	-7.0	-10.5
281868	Upgrade	65	60	85	47	47	74	39	40	65	-7.3	-6.4	-9.4
281875	Upgrade	65	60	85	48	47	73	41	43	66	-7.0	-4.4	-7.1
281888	Upgrade	65	60	85	49	47	74	38	39	63	-10.6	-7.8	-10.9
281889	Upgrade	65	60	85	50	49	75	42	43	67	-8.1	-5.5	-8.1
281894	Upgrade	65	60	85	52	52	79	41	42	64	-11.2	-10.5	-15.6
281908	Upgrade	65	60	85	50	50	78	40	41	63	-9.4	-8.2	-14.7
281909	Upgrade	65	60	85	49	48	74	42	43	65	-6.7	-4.8	-9.0
281941	Upgrade	65	60	85	49	49	75	41	42	65	-8.4	-7.2	-10.2
281948	Upgrade	65	60	85	56	56	84	41	42	64	-15.1	-14.5	-20.0
281951	Upgrade	65	60	85	48	47	74	41	42	65	-6.8	-5.4	-8.6
281977	Upgrade	65	60	85	50	50	78	42	43	66	-7.8	-6.9	-12.0
281984	Upgrade	65	60	85	44	44	67	41	42	65	-2.6	-1.6	-2.2
281995	Upgrade	65	60	85	46	46	73	40	41	63	-6.8	-5.6	-10.1
282005	Upgrade	65	60	85	27	28	54	34	34	59	6.3	6.9	4.8
282025	Upgrade	65	60	85	47	46	71	41	42	65	-5.5	-3.4	-5.8
282030	Upgrade	65	60	85	47	46	69	42	43	65	-5.0	-3.3	-3.7
282034	Upgrade	65	60	85	60	60	87	42	42	64	-18.0	-17.4	-23.5
282045	Upgrade	65	60	85	47	47	72	40	41	64	-6.6	-5.4	-8.7
282053	Upgrade	65	60	85	48	47	73	40	41	64	-8.6	-6.5	-8.9
282060	Upgrade	65	60	85	57	57	84	41	42	63	-15.8	-14.9	-20.3
282068	Upgrade	65	60	85	57	57	83	41	42	64	-16.1	-15.4	-19.4
282070	Upgrade	65	60	85	30	30	54	41	42	64	11.3	12.0	9.5
282074	Upgrade	65	60	85	54	54	82	41	42	65	-12.7	-11.8	-17.0
282076	Upgrade	65	60	85	19	19	40	27	28	47	7.9	8.7	6.5
282077	Upgrade	65	60	85	50	49	75	40	41	65	-9.6	-7.3	-9.5
282078	Upgrade	65	60	85	49	48	73	40	41	63	-9.2	-7.0	-10.0
282082	Upgrade	65	60	85	51	51	78	41	42	65	-9.9	-9.0	-13.2
282099	Upgrade	65	60	85	49	48	75	40	41	64	-8.8	-6.4	-10.9
282105	Upgrade	65	60	85	50	50	76	41	42	65	-9.3	-8.3	-10.0
282108	Upgrade	65	60	85	51	51	75	41	42	64	-10.1	-8.9	-11.3
282112	Upgrade	65	60	85	57	57	83	44	45	66	-13.1	-12.7	-17.3
282116	Upgrade	65	60	85	52	51	75	42	43	66	-9.5	-8.2	-8.9
282132	Upgrade	65	60	85	48	47	72	42	43	66	-6.6	-4.6	-6.0
282133	Upgrade	65	60	85	47	46	70	40	41	64	-6.8	-5.2	-5.6
282136	Upgrade	65	60	85	28	28	54	36	37	60	7.7	8.4	5.4
282156	Upgrade	65	60	85	48	47	75	40	41	63	-8.8	-6.6	-11.6
282157	Upgrade	65	60	85	47	46	73	39	40	63	-8.6	-6.2	-10.1
282165	Upgrade	65	60	85	28	28	54	41	42	64	13.0	13.8	10.3
282167	Upgrade	65	60	85	51	50	76	41	42	64	-10.2	-7.8	-11.9
282184	Upgrade	65	60	85	55	55	82	43	43	64	-12.1	-11.6	-17.7
282199	Upgrade	65	60	85	59	59	88	44	45	68	-15.0	-14.3	-20.2
282201	Upgrade	65	60	85	20	21	42	28	29	48	7.4	8.1	5.8
282211	Upgrade	65	60	85	47	46	70	40	41	63	-6.7	-4.9	-7.4
282214	Upgrade	65	60	85	25	25	52	35	36	59	10.0	10.8	7.4
282218	Upgrade	65	60	85	58	58	87	42	43	65	-15.5	-14.7	-21.4



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
282219	Upgrade	65	60	85	48	47	71	41	42	65	-6.8	-5.2	-5.9
282221	Upgrade	65	60	85	51	49	77	40	42	64	-10.4	-7.8	-12.5
282222	Upgrade	65	60	85	43	42	69	37	38	61	-6.5	-4.5	-7.6
282229	Upgrade	65	60	85	59	59	89	43	44	65	-15.5	-15.0	-24.0
282230	Upgrade	65	60	85	53	54	82	41	42	64	-12.4	-11.6	-18.1
282231	Upgrade	65	60	85	48	47	70	41	42	65	-6.9	-5.1	-5.1
282233	Upgrade	65	60	85	49	47	75	41	42	66	-7.2	-4.9	-9.4
282235	Upgrade	65	60	85	49	48	72	41	42	64	-8.1	-6.2	-8.1
282261	Upgrade	65	60	85	51	49	75	42	43	67	-8.5	-6.0	-8.3
282264	Upgrade	65	60	85	49	48	72	41	42	65	-7.5	-5.7	-7.6
282265	Upgrade	65	60	85	50	50	78	44	45	68	-6.4	-5.1	-10.3
282268	Upgrade	65	60	85	51	49	78	39	40	63	-12.0	-9.1	-15.5
282279	Upgrade	65	60	85	50	48	74	39	40	63	-10.6	-8.5	-11.5
282280	Upgrade	65	60	85	49	47	74	39	40	63	-9.5	-7.1	-10.3
282285	Upgrade	65	60	85	50	49	73	40	42	64	-9.1	-7.0	-9.3
282290	Upgrade	65	60	85	47	47	75	42	43	66	-5.1	-4.2	-9.2
282291	Upgrade	65	60	85	52	50	76	41	42	65	-10.4	-7.9	-11.0
282292	Upgrade	65	60	85	50	49	75	40	41	63	-10.3	-8.1	-11.7
282296	Upgrade	65	60	85	49	47	73	40	41	64	-8.6	-6.2	-8.9
282297	Upgrade	65	60	85	55	55	86	42	43	64	-12.7	-12.0	-21.7
282299	Upgrade	65	60	85	48	48	72	42	43	65	-6.7	-5.1	-7.2
282303	Upgrade	65	60	85	50	49	75	40	41	64	-10.5	-8.2	-10.7
282310	Upgrade	65	60	85	53	54	84	41	42	64	-12.1	-11.6	-19.2
282311	Upgrade	65	60	85	57	57	89	44	45	68	-13.2	-12.5	-20.9
282313	Upgrade	65	60	85	50	48	74	41	42	64	-8.9	-6.6	-9.3
282314	Upgrade	65	60	85	47	47	71	42	43	65	-5.5	-4.4	-6.4
282316	Upgrade	65	60	85	50	49	74	41	42	65	-8.3	-6.3	-9.1
282319	Upgrade	65	60	85	49	48	75	40	41	64	-9.4	-6.7	-11.4
282323	Upgrade	65	60	85	50	49	73	40	41	64	-9.4	-7.2	-8.9
282324	Upgrade	65	60	85	59	59	87	43	44	66	-15.4	-14.7	-20.4
282327	Upgrade	65	60	85	51	50	75	43	45	67	-7.2	-5.2	-8.1
282331	Upgrade	65	60	85	49	48	75	41	42	65	-7.6	-6.0	-9.9
282334	Upgrade	65	60	85	52	51	77	40	41	64	-12.7	-10.0	-13.2
282335	Upgrade	65	60	85	27	27	55	41	43	65	14.4	15.2	10.4
282336	Upgrade	65	60	85	49	48	74	42	43	66	-6.5	-4.9	-8.5
282339	Upgrade	65	60	85	51	49	75	40	42	65	-10.1	-7.9	-10.3
282340	Upgrade	65	60	85	24	24	46	33	34	55	9.2	10.0	9.0
282349	Upgrade	65	60	85	47	47	71	41	42	64	-6.5	-4.9	-7.0
282350	Upgrade	65	60	85	53	51	77	41	42	64	-12.0	-9.6	-13.3
282365	Upgrade	65	60	85	53	51	79	42	43	66	-10.2	-7.5	-12.8
282368	Upgrade	65	60	85	51	50	76	42	43	66	-9.6	-7.4	-9.8
282371	Upgrade	65	60	85	50	49	73	42	43	66	-7.3	-5.4	-6.5
282373	Upgrade	65	60	85	47	47	70	42	43	65	-5.6	-4.0	-5.4
282374	Upgrade	65	60	85	59	59	87	46	46	70	-13.1	-12.4	-17.2
282383	Upgrade	65	60	85	49	48	73	42	43	65	-7.2	-5.6	-7.7
282395	Upgrade	65	60	85	50	49	77	44	45	68	-5.6	-4.3	-8.4
282396	Upgrade	65	60	85	52	50	79	41	42	65	-11.2	-8.5	-13.5
282398	Upgrade	65	60	85	50	48	75	42	43	66	-7.4	-5.0	-9.6
282399	Upgrade	65	60	85	51	49	77	42	43	66	-8.8	-6.2	-11.3
282400	Upgrade	65	60	85	49	48	74	40	41	63	-9.4	-7.1	-11.1
282402	Upgrade	65	60	85	58	58	87	45	46	70	-12.9	-12.1	-17.0



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax
282403	Upgrade	65	60	85	49	49	76	43	44	68	-6.1	-4.8	-7.8
282405	Upgrade	65	60	85	50	48	75	41	42	66	-8.8	-6.3	-9.3
282406	Upgrade	65	60	85	51	50	79	43	44	68	-7.5	-6.0	-11.4
282407	Upgrade	65	60	85	52	51	79	42	43	65	-10.5	-7.9	-13.9
282409	Upgrade	65	60	85	52	50	78	43	44	66	-9.2	-6.5	-11.7
282411	Upgrade	65	60	85	27	27	53	42	43	65	15.1	15.9	12.2
282417	Upgrade	65	60	85	49	48	74	41	42	65	-8.5	-6.2	-9.3
282427	Upgrade	65	60	85	50	50	81	45	46	70	-5.3	-4.4	-10.6
282435	Upgrade	65	60	85	50	49	76	43	44	67	-7.1	-4.7	-8.9
282437	Upgrade	65	60	85	50	50	77	44	45	69	-5.9	-4.5	-8.5
282438	Upgrade	65	60	85	63	64	93	46	47	70	-17.6	-17.0	-23.1
282440	Upgrade	65	60	85	52	52	79	44	45	69	-8.2	-7.2	-10.7
282441	Upgrade	65	60	85	45	44	68	39	40	63	-5.6	-3.6	-4.4
282443	Upgrade	65	60	85	50	49	74	42	43	66	-7.4	-5.3	-7.4
282447	Upgrade	65	60	85	52	52	81	45	46	70	-6.7	-5.8	-11.4
282449	Upgrade	65	60	85	51	51	80	45	46	69	-5.6	-4.6	-10.7
282450	Upgrade	65	60	85	48	47	72	42	43	66	-6.3	-4.5	-6.0
282452	Upgrade	65	60	85	51	49	77	42	43	65	-9.5	-6.9	-11.7
282454	Upgrade	65	60	85	52	50	77	39	40	63	-12.8	-10.2	-14.3
282455	Upgrade	65	60	85	53	52	80	40	41	64	-13.3	-10.6	-15.4
282460	Upgrade	65	60	85	49	49	76	43	44	67	-6.0	-4.5	-8.3
282463	Upgrade	65	60	85	53	53	82	45	46	69	-8.3	-7.3	-12.8
282468	Upgrade	65	60	85	51	49	77	40	41	65	-11.1	-8.6	-12.1
282469	Upgrade	65	60	85	51	49	77	40	41	64	-10.6	-8.1	-13.2
282470	Upgrade	65	60	85	51	49	77	41	42	66	-9.4	-7.0	-11.2
282471	Upgrade	65	60	85	25	26	51	37	38	60	12.1	12.9	9.9
282473	Upgrade	65	60	85	50	49	75	43	44	66	-7.7	-5.3	-9.1
282475	Upgrade	65	60	85	52	52	81	45	46	70	-6.4	-5.4	-10.8
282477	Upgrade	65	60	85	51	49	78	41	42	65	-10.2	-7.6	-13.1
282480	Upgrade	65	60	85	50	49	76	40	41	65	-9.9	-7.7	-11.6
282486	Upgrade	65	60	85	58	58	87	46	47	70	-12.2	-11.5	-16.5
282487	Upgrade	65	60	85	49	48	72	42	43	66	-6.6	-4.8	-5.8
282490	Upgrade	65	60	85	27	28	53	42	43	65	14.2	15.0	11.1
282495	Upgrade	65	60	85	50	50	78	38	39	62	-11.5	-10.6	-15.8
282497	Upgrade	65	60	85	52	50	78	41	42	65	-10.5	-7.8	-13.7
282498	Upgrade	65	60	85	50	50	78	44	45	68	-6.1	-4.8	-9.7
282502	Upgrade	65	60	85	47	47	71	42	43	65	-5.1	-3.9	-6.2
282503	Upgrade	65	60	85	48	48	78	43	45	69	-4.9	-3.7	-9.8
282504	Upgrade	65	60	85	49	48	76	42	43	66	-6.8	-5.3	-10.2
282505	Upgrade	65	60	85	49	49	80	44	45	69	-4.7	-3.6	-10.5
282511	Upgrade	65	60	85	52	51	77	42	44	66	-9.6	-7.4	-10.8
282512	Upgrade	65	60	85	49	48	75	40	41	64	-9.0	-6.5	-11.2
282527	Upgrade	65	60	85	51	50	76	41	42	65	-10.2	-7.8	-11.3
282532	Upgrade	65	60	85	50	50	77	44	45	68	-6.1	-4.5	-8.9
282534	Upgrade	65	60	85	48	48	77	45	46	70	-3.9	-2.7	-7.9
282536	Upgrade	65	60	85	51	51	80	46	47	71	-4.8	-3.9	-8.9
282537	Upgrade	65	60	85	50	49	76	40	41	64	-9.4	-7.2	-12.3
282539	Upgrade	65	60	85	49	48	74	43	44	67	-6.7	-4.4	-7.2
282540	Upgrade	65	60	85	48	48	76	42	43	66	-5.6	-4.4	-9.7
282543	Upgrade	65	60	85	45	45	70	44	45	69	-0.9	0.5	-0.5
282551	Upgrade	65	60	85	52	50	79	40	41	63	-12.1	-9.5	-15.4



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
282556	Upgrade	65	60	85	49	48	74	39	40	62	-10.5	-8.0	-12.1
282559	Upgrade	65	60	85	50	48	76	40	41	64	-10.0	-7.5	-11.1
282561	Upgrade	65	60	85	50	49	74	43	44	67	-7.4	-5.2	-7.4
282562	Upgrade	65	60	85	51	49	77	41	42	65	-9.5	-6.9	-11.6
282568	Upgrade	65	60	85	26	26	50	41	42	65	15.4	16.2	14.3
282569	Upgrade	65	60	85	52	52	79	45	46	69	-7.4	-6.2	-9.9
282570	Upgrade	65	60	85	52	52	80	45	46	69	-6.7	-5.4	-10.4
282571	Upgrade	65	60	85	49	49	78	45	46	71	-3.3	-2.2	-7.1
282572	Upgrade	65	60	85	47	47	76	46	47	71	-1.3	-0.3	-5.2
282583	Upgrade	65	60	85	51	50	74	43	44	67	-7.6	-5.5	-7.0
282589	Upgrade	65	60	85	48	47	73	43	44	67	-4.6	-2.8	-5.6
282592	Upgrade	65	60	85	49	48	77	46	47	71	-2.7	-1.3	-5.9
282595	Upgrade	65	60	85	51	51	78	45	46	69	-6.4	-5.0	-8.8
282599	Upgrade	65	60	85	50	50	78	46	47	71	-4.3	-3.2	-6.1
282601	Upgrade	65	60	85	54	54	83	44	45	68	-9.5	-8.6	-15.3
282605	Upgrade	65	60	85	51	49	77	41	42	65	-10.1	-7.4	-12.1
282610	Upgrade	65	60	85	59	59	86	45	46	69	-13.6	-12.8	-16.8
282613	Upgrade	65	60	85	51	50	78	40	42	64	-10.9	-8.2	-14.0
282615	Upgrade	65	60	85	52	51	77	40	41	64	-11.6	-9.2	-13.4
282627	Upgrade	65	60	85	50	49	73	43	44	67	-7.1	-5.4	-6.7
282630	Upgrade	65	60	85	49	49	73	43	44	67	-6.0	-4.4	-5.9
282637	Upgrade	65	60	85	48	48	77	45	46	70	-3.7	-2.4	-6.9
282638	Upgrade	65	60	85	25	25	52	44	45	67	18.5	19.3	15.2
282640	Upgrade	65	60	85	50	49	75	42	43	66	-8.0	-5.8	-9.8
282648	Upgrade	65	60	85	50	51	82	43	44	68	-7.5	-6.6	-14.1
282659	Upgrade	65	60	85	51	50	76	39	40	63	-12.2	-9.7	-13.0
282663	Upgrade	65	60	85	51	51	79	45	46	69	-6.3	-5.2	-9.3
282666	Upgrade	65	60	85	57	57	86	46	47	71	-10.3	-9.5	-14.8
282668	Upgrade	65	60	85	50	50	76	46	47	71	-4.3	-3.3	-5.3
282669	Upgrade	65	60	85	47	47	74	44	45	69	-2.8	-1.7	-5.3
282676	Upgrade	65	60	85	48	48	76	50	51	74	1.9	2.9	-2.0
282681	Upgrade	65	60	85	49	49	77	49	50	73	-0.6	0.4	-3.9
282689	Upgrade	65	60	85	49	49	77	45	46	70	-4.1	-2.4	-7.3
282694	Upgrade	65	60	85	51	50	76	44	45	68	-7.3	-5.1	-7.8
282702	Upgrade	65	60	85	48	48	77	48	49	74	0.4	1.8	-3.2
282704	Upgrade	65	60	85	49	48	75	38	39	63	-10.9	-8.3	-12.2
282705	Upgrade	65	60	85	49	49	73	43	44	66	-6.4	-4.9	-7.0
282712	Upgrade	65	60	85	54	54	83	46	47	71	-7.3	-6.4	-11.6
282713	Upgrade	65	60	85	49	49	76	49	50	73	-0.2	0.9	-2.5
282715	Upgrade	65	60	85	55	54	82	43	44	67	-12.6	-10.0	-14.9
282717	Upgrade	65	60	85	58	58	84	45	46	69	-13.1	-12.4	-14.2
282719	Upgrade	65	60	85	49	49	77	43	44	68	-5.5	-4.3	-9.4
282721	Upgrade	65	60	85	49	49	76	46	47	71	-3.1	-2.0	-4.9
282722	Upgrade	65	60	85	52	52	80	46	47	70	-6.3	-5.3	-9.5
282724	Upgrade	65	60	85	49	48	74	39	40	64	-10.5	-8.2	-10.7
282731	Upgrade	65	60	85	52	51	78	46	47	70	-6.7	-4.5	-7.9
282732	Upgrade	65	60	85	45	45	70	47	48	72	1.9	3.3	2.0
282737	Upgrade	65	60	85	50	49	76	40	41	64	-9.7	-7.5	-12.5
282739	Upgrade	65	60	85	49	48	73	47	48	72	-1.9	-0.6	-0.6
282741	Upgrade	65	60	85	50	50	78	46	47	71	-4.5	-3.4	-7.1
282744	Upgrade	65	60	85	25	25	49	42	43	66	16.8	17.7	16.7



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmix	LAeq,15hr	LAeq,9hr	LAmix	LAeq,15hr	LAeq,9hr	LAmix
282753	Upgrade	65	60	85	47	46	72	48	49	73	0.9	2.1	0.9
282756	Upgrade	65	60	85	56	56	84	47	48	72	-8.7	-7.7	-12.6
282759	Upgrade	65	60	85	53	52	79	43	44	66	-10.9	-8.4	-12.5
282761	Upgrade	65	60	85	60	60	88	47	48	72	-12.3	-11.6	-16.7
282763	Upgrade	65	60	85	52	51	77	45	46	69	-6.7	-4.5	-7.8
282764	Upgrade	65	60	85	24	24	48	42	43	66	17.8	18.6	17.1
282765	Upgrade	65	60	85	51	51	78	45	46	69	-6.5	-5.2	-8.8
282779	Upgrade	65	60	85	53	51	80	40	41	64	-12.5	-9.7	-15.7
282784	Upgrade	65	60	85	55	55	84	48	49	72	-7.1	-6.1	-12.1
282786	Upgrade	65	60	85	52	51	79	45	46	69	-6.1	-4.8	-10.0
282788	Upgrade	65	60	85	49	48	72	47	48	72	-1.8	-0.7	-0.3
282792	Upgrade	65	60	85	54	53	80	45	46	70	-9.6	-7.4	-9.8
282809	Upgrade	65	60	85	24	25	45	44	45	68	19.2	20.0	22.5
282816	Upgrade	65	60	85	52	51	79	46	47	71	-5.9	-3.8	-7.9
282820	Upgrade	65	60	85	58	56	84	46	47	71	-11.1	-8.5	-12.5
282821	Upgrade	65	60	85	52	50	79	42	43	66	-10.5	-7.8	-12.9
282822	Upgrade	65	60	85	59	60	88	49	50	73	-10.6	-9.8	-14.4
282825	Upgrade	65	60	85	58	59	85	45	46	70	-13.3	-12.5	-14.8
282828	Upgrade	65	60	85	50	49	76	41	42	66	-9.2	-7.0	-10.1
282829	Upgrade	65	60	85	50	50	78	44	45	68	-5.7	-4.5	-10.0
282838	Upgrade	65	60	85	52	51	79	39	40	63	-12.8	-10.2	-15.2
282843	Upgrade	65	60	85	52	52	81	49	50	74	-2.7	-1.7	-6.6
282850	Upgrade	65	60	85	45	44	68	51	52	76	6.4	8.1	8.7
282856	Upgrade	65	60	85	46	46	68	51	52	76	4.6	6.1	8.2
282857	Upgrade	65	60	85	47	47	70	46	47	71	-1.3	0.3	0.6
282861	Upgrade	65	60	85	48	48	70	47	48	71	-1.9	-0.4	1.0
282865	Upgrade	65	60	85	46	46	69	51	52	76	4.9	6.6	7.1
282867	Upgrade	65	60	85	57	56	83	46	47	69	-11.7	-9.8	-13.5
282873	Upgrade	65	60	85	50	49	73	46	47	71	-3.7	-2.4	-1.3
282875	Upgrade	65	60	85	49	48	71	50	51	74	0.9	2.6	2.5
282879	Upgrade	65	60	85	49	49	74	46	47	71	-3.7	-2.4	-3.4
282886	Upgrade	65	60	85	53	52	80	47	48	72	-5.6	-3.6	-8.6
282889	Upgrade	65	60	85	52	52	78	47	48	72	-4.7	-3.6	-6.7
282890	Upgrade	65	60	85	54	54	82	47	48	71	-6.9	-5.7	-11.5
282891	Upgrade	65	60	85	53	53	84	48	49	72	-4.7	-3.4	-12.0
282892	Upgrade	65	60	85	58	59	85	46	47	71	-12.1	-11.2	-14.4
282893	Upgrade	65	60	85	50	49	75	40	41	65	-10.0	-8.2	-9.9
282894	Upgrade	65	60	85	23	24	48	41	42	64	17.6	18.4	16.2
282896	Upgrade	65	60	85	56	54	83	43	44	67	-13.2	-10.4	-16.4
282908	Upgrade	65	60	85	69	68	97	48	49	73	-21.1	-18.5	-23.9
282910	Upgrade	65	60	85	49	48	75	40	41	64	-9.7	-7.2	-11.1
282912	Upgrade	65	60	85	60	60	89	51	52	75	-9.5	-8.6	-14.2
282914	Upgrade	65	60	85	52	52	78	42	43	66	-9.9	-8.8	-12.2
282917	Upgrade	65	60	85	24	25	45	44	45	68	19.5	20.3	22.4
282924	Upgrade	65	60	85	58	57	83	44	45	70	-13.3	-11.3	-13.4
282926	Upgrade	65	60	85	55	54	81	42	43	67	-12.9	-10.6	-13.5
282927	Upgrade	65	60	85	49	48	74	47	48	72	-2.0	-0.7	-2.3
282930	Upgrade	65	60	85	59	59	87	49	50	73	-10.5	-9.4	-14.1
282933	Upgrade	65	60	85	53	52	80	45	46	70	-8.3	-6.1	-10.1
282934	Upgrade	65	60	85	60	60	86	47	48	72	-13.0	-12.1	-14.8
282935	Upgrade	65	60	85	19	19	41	30	31	51	10.8	11.5	10.4



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax
282936	Upgrade	65	60	85	47	46	69	49	51	75	2.7	4.2	5.7
282944	Upgrade	65	60	85	47	47	75	47	48	72	0.0	1.0	-2.6
282946	Upgrade	65	60	85	54	53	82	48	49	72	-6.2	-4.4	-10.0
282947	Upgrade	65	60	85	47	46	69	48	49	73	1.2	2.8	3.6
282948	Upgrade	65	60	85	59	57	86	41	42	66	-17.2	-14.5	-19.7
282949	Upgrade	65	60	85	47	47	71	46	47	70	-1.4	-0.1	-1.1
282955	Upgrade	65	60	85	49	49	74	48	49	73	-0.8	0.6	-1.2
282957	Upgrade	65	60	85	57	56	83	45	46	69	-12.7	-9.9	-14.5
282966	Upgrade	65	60	85	47	47	70	48	49	73	0.8	2.5	3.0
282972	Upgrade	65	60	85	59	60	87	45	46	69	-14.3	-13.4	-17.8
282978	Upgrade	65	60	85	47	47	70	49	50	75	2.1	3.5	4.3
282980	Upgrade	65	60	85	49	49	77	48	49	73	-0.5	0.4	-4.0
282983	Upgrade	65	60	85	54	53	81	42	43	67	-12.0	-9.9	-13.7
282994	Upgrade	65	60	85	62	61	87	50	51	75	-12.2	-10.4	-12.2
282998	Upgrade	65	60	85	60	60	89	49	50	73	-10.9	-10.1	-16.3
283001	Upgrade	65	60	85	60	60	88	44	45	68	-15.8	-14.9	-19.2
283002	Upgrade	65	60	85	48	48	71	43	44	68	-5.1	-3.6	-2.6
283003	Upgrade	65	60	85	47	47	71	48	49	73	0.6	2.4	1.8
283009	Upgrade	65	60	85	57	56	86	50	51	74	-6.6	-5.3	-12.7
283014	Upgrade	65	60	85	63	62	89	48	49	73	-15.1	-12.9	-16.4
283015	Upgrade	65	60	85	50	50	78	47	48	72	-3.1	-1.9	-6.1
283017	Upgrade	65	60	85	47	47	69	49	50	73	1.1	2.4	4.3
283021	Upgrade	65	60	85	57	57	87	50	51	75	-7.0	-5.8	-11.8
283022	New	60	55	80	-	-	-	52	53	76	-	-	-
283036	Upgrade	65	60	85	59	57	85	42	43	66	-16.7	-14.1	-18.9
283037	New	60	55	80	-	-	-	53	54	77	-	-	-
283041	Upgrade	65	60	85	53	52	77	43	44	67	-10.3	-8.2	-10.1
283045	Upgrade	65	60	85	54	53	81	44	45	69	-10.5	-8.0	-12.0
283053	Upgrade	65	60	85	48	48	71	49	50	74	1.1	2.5	3.6
283056	Upgrade	65	60	85	48	48	73	45	46	69	-3.2	-1.9	-4.2
283060	Upgrade	65	60	85	58	58	86	45	47	70	-12.5	-11.7	-16.3
283061	Upgrade	65	60	85	59	58	88	49	50	74	-9.2	-8.1	-13.7
283066	New	60	55	80	-	-	-	49	50	74	-	-	-
283077	Upgrade	65	60	85	74	72	102	47	48	71	-26.9	-24.0	-30.5
283082	Upgrade	65	60	85	63	62	88	50	51	75	-12.3	-10.5	-13.5
283085	Upgrade	65	60	85	49	49	73	49	50	74	-0.7	0.8	0.8
283089	Upgrade	65	60	85	53	53	83	45	46	69	-8.0	-6.8	-14.4
283095	New	60	55	80	-	-	-	49	50	74	-	-	-
283096	Upgrade	65	60	85	62	60	89	43	44	68	-19.1	-16.4	-21.1
283100	Upgrade	65	60	85	47	46	70	49	50	74	2.7	4.5	3.9
283105	Upgrade	65	60	85	59	60	86	46	47	70	-13.5	-12.7	-15.9
283115	Upgrade	65	60	85	50	50	76	47	48	72	-3.0	-1.6	-4.4
283118	Upgrade	65	60	85	59	59	86	46	47	70	-13.6	-12.7	-16.4
283121	Upgrade	65	60	85	61	60	88	46	47	70	-15.7	-13.4	-17.9
283122	Upgrade	65	60	85	52	52	79	48	49	73	-4.0	-2.7	-6.5
283128	Upgrade	65	60	85	59	57	86	45	46	69	-14.3	-11.5	-17.5
283129	Upgrade	65	60	85	47	47	70	50	51	75	3.2	4.7	4.8
283131	New	60	55	80	-	-	-	50	51	75	-	-	-
283134	Upgrade	65	60	85	60	60	87	45	46	70	-14.9	-14.0	-17.2
283136	Upgrade	65	60	85	51	51	77	48	49	73	-3.3	-1.9	-4.6
283140	New	60	55	80	-	-	-	51	52	76	-	-	-



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA				Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	
283142	Upgrade	65	60	85	25	25	49	40	41	63	15.7	16.5	14.0	
283145	New	60	55	80	-	-	-	50	51	75	-	-	-	
283146	Upgrade	65	60	85	59	58	86	46	47	70	-13.1	-11.2	-15.4	
283148	Upgrade	65	60	85	48	48	73	50	51	75	1.5	3.0	2.3	
283154	Upgrade	65	60	85	68	66	93	47	48	71	-20.4	-17.8	-22.0	
283155	Upgrade	65	60	85	48	48	70	50	51	75	2.2	3.6	5.0	
283161	Upgrade	65	60	85	51	50	79	47	48	71	-3.8	-2.6	-7.5	
283162	Upgrade	65	60	85	60	60	87	45	46	70	-14.7	-13.9	-17.0	
283165	New	60	55	80	-	-	-	51	53	76	-	-	-	
283168	Upgrade	65	60	85	47	47	73	50	51	75	2.5	3.9	1.8	
283173	Upgrade	65	60	85	57	56	82	44	45	68	-13.2	-10.8	-13.5	
283175	Upgrade	65	60	85	47	47	70	50	51	75	2.9	4.5	4.4	
283178	Upgrade	65	60	85	48	47	74	48	49	72	0.1	1.6	-1.3	
283182	Upgrade	65	60	85	23	23	47	41	42	65	18.6	19.3	17.2	
283188	Upgrade	65	60	85	61	59	86	46	47	70	-14.6	-12.4	-16.4	
283194	Upgrade	65	60	85	50	50	75	48	49	73	-2.4	-1.0	-2.5	
283195	Upgrade	65	60	85	58	56	84	44	45	69	-13.4	-10.6	-15.1	
283196	New	60	55	80	-	-	-	50	51	74	-	-	-	
283197	Upgrade	65	60	85	60	61	90	47	48	72	-13.5	-12.7	-18.1	
283204	Upgrade	65	60	85	47	47	70	51	52	75	3.5	5.0	5.7	
283209	Upgrade	65	60	85	51	51	81	46	47	70	-4.8	-3.7	-10.7	
283211	Upgrade	65	60	85	65	63	92	46	47	69	-19.3	-16.5	-22.9	
283212	Upgrade	65	60	85	50	50	78	46	47	70	-4.0	-3.0	-7.2	
283213	Upgrade	65	60	85	64	63	90	46	47	70	-18.3	-15.8	-20.7	
283214	New	60	55	80	-	-	-	53	54	77	-	-	-	
283215	New	60	55	80	-	-	-	49	50	74	-	-	-	
283217	Upgrade	65	60	85	60	60	87	48	49	72	-12.0	-11.1	-15.7	
283219	Upgrade	65	60	85	49	48	76	46	47	71	-2.8	-1.4	-5.0	
283220	New	60	55	80	-	-	-	54	55	78	-	-	-	
283227	Upgrade	65	60	85	23	23	46	44	45	67	20.8	21.6	21.9	
283229	Upgrade	65	60	85	64	63	90	46	47	69	-18.2	-16.0	-20.6	
283231	Upgrade	65	60	85	60	60	88	48	49	72	-12.1	-11.2	-16.4	
283233	Upgrade	65	60	85	47	47	71	51	52	76	3.7	5.4	5.1	
283234	Upgrade	65	60	85	61	59	88	44	45	68	-16.9	-14.0	-20.3	
283237	Upgrade	65	60	85	52	52	81	46	47	70	-5.7	-4.3	-10.6	
283242	Upgrade	65	60	85	60	60	89	49	50	73	-11.1	-10.2	-15.6	
283246	Upgrade	65	60	85	50	50	78	48	49	71	-2.9	-1.5	-6.8	
283248	Upgrade	65	60	85	45	44	72	49	50	74	4.0	5.6	2.0	
283252	New	60	55	80	-	-	-	52	53	76	-	-	-	
283256	Upgrade	65	60	85	49	48	74	46	47	69	-2.4	-0.8	-4.8	
283267	Upgrade	65	60	85	60	60	89	49	50	74	-10.5	-9.6	-15.9	
283270	Upgrade	65	60	85	50	50	77	47	48	72	-3.1	-1.4	-5.8	
283271	New	60	55	80	-	-	-	49	50	74	-	-	-	
283274	Upgrade	65	60	85	52	52	81	48	49	72	-4.6	-3.4	-8.7	
283288	Upgrade	65	60	85	58	58	87	49	50	72	-9.1	-7.9	-14.9	
283305	Upgrade	65	60	85	48	47	72	49	50	74	1.0	2.7	1.1	
283306	Upgrade	65	60	85	52	51	80	46	47	70	-5.2	-3.7	-10.0	
283307	New	60	55	80	-	-	-	52	53	76	-	-	-	
283316	Upgrade	65	60	85	53	52	85	51	52	74	-2.1	-0.8	-11.1	
283322	Upgrade	65	60	85	49	48	76	47	48	71	-1.9	-0.3	-4.9	
283326	Upgrade	65	60	85	60	59	85	44	45	68	-16.2	-13.7	-17.1	



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA			
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmaz	LAeq,15hr	LAeq,9hr	LAmaz	LAeq,15hr	LAeq,9hr	LAmaz	
283328	Upgrade	65	60	85	85	58	58	85	49	50	73	-9.4	-7.8	-11.9
283329	Upgrade	65	60	85	50	50	83	50	51	74	-0.7	0.9	-9.5	
283330	Upgrade	65	60	85	69	67	96	45	46	69	-23.3	-20.8	-26.8	
283331	Upgrade	65	60	85	66	65	93	45	46	68	-21.8	-19.5	-24.6	
283332	New	60	55	80	-	-	-	52	53	76	-	-	-	
283335	Upgrade	65	60	85	51	50	76	46	47	69	-4.7	-2.9	-6.2	
283338	Upgrade	65	60	85	58	58	86	50	51	73	-8.7	-7.1	-13.2	
283342	Upgrade	65	60	85	65	64	91	45	46	70	-20.4	-18.3	-21.7	
283346	Upgrade	65	60	85	70	68	97	46	47	70	-24.2	-21.3	-27.6	
283347	Upgrade	65	60	85	52	51	79	47	48	72	-4.8	-3.2	-6.8	
283351	Upgrade	65	60	85	62	62	89	46	47	70	-16.1	-14.7	-18.7	
283352	Upgrade	65	60	85	48	47	72	49	50	74	1.6	3.3	2.2	
283354	New	60	55	80	-	-	-	52	53	76	-	-	-	
283355	Upgrade	65	60	85	58	58	87	49	50	72	-9.2	-7.5	-14.2	
283357	Upgrade	65	60	85	63	61	90	46	47	70	-17.4	-14.6	-20.6	
283365	New	60	55	80	-	-	-	55	56	79	-	-	-	
283367	Upgrade	65	60	85	70	68	98	44	45	68	-25.8	-22.8	-29.3	
283370	Upgrade	65	60	85	50	49	78	46	47	70	-3.9	-2.2	-8.4	
283375	Upgrade	65	60	85	61	59	88	47	48	71	-14.0	-11.3	-17.2	
283380	Upgrade	65	60	85	63	62	88	44	45	67	-19.2	-17.4	-21.4	
283382	Upgrade	65	60	85	62	61	89	45	46	68	-17.3	-15.9	-20.7	
283389	New	60	55	80	-	-	-	50	51	75	-	-	-	
283395	Upgrade	65	60	85	72	70	98	48	49	71	-24.0	-21.9	-26.9	
283396	Upgrade	65	60	85	60	59	86	46	48	70	-13.2	-11.4	-15.2	
283398	Upgrade	65	60	85	70	68	98	47	48	71	-23.5	-20.6	-26.9	
283410	Upgrade	65	60	85	71	70	99	45	46	68	-26.8	-23.8	-30.8	
283412	Upgrade	65	60	85	48	47	73	49	50	73	0.9	2.8	-0.3	
283413	Upgrade	65	60	85	60	60	87	45	46	69	-15.0	-13.5	-17.5	
283414	Upgrade	65	60	85	60	59	86	46	48	71	-13.2	-11.5	-15.1	
283418	Upgrade	65	60	85	48	47	73	50	51	75	2.6	4.5	2.2	
283423	Upgrade	65	60	85	70	68	97	44	46	69	-25.4	-22.5	-28.0	
283426	Upgrade	65	60	85	49	48	74	46	47	70	-2.9	-1.1	-3.6	
283427	Upgrade	65	60	85	50	49	77	46	47	70	-3.4	-1.8	-6.9	
283429	Upgrade	65	60	85	67	66	94	45	46	70	-22.2	-19.8	-24.3	
283433	Upgrade	65	60	85	49	48	75	47	48	70	-2.5	-0.5	-4.8	
283442	Upgrade	65	60	85	74	72	100	46	47	71	-27.6	-25.2	-29.1	
283448	Upgrade	65	60	85	66	65	92	45	46	69	-20.7	-18.4	-22.9	
283450	Upgrade	65	60	85	61	60	87	45	46	68	-16.9	-14.8	-18.8	
283451	Upgrade	65	60	85	67	65	95	45	46	70	-21.9	-19.0	-25.0	
283455	Upgrade	65	60	85	49	48	75	45	46	68	-4.5	-2.6	-6.8	
283461	Upgrade	65	60	85	57	56	83	43	44	67	-13.6	-11.7	-16.4	
283463	New	60	55	80	-	-	-	51	52	76	-	-	-	
283467	Upgrade	65	60	85	57	57	86	45	46	68	-12.9	-11.6	-17.4	
283469	Upgrade	65	60	85	60	59	87	46	47	70	-14.4	-11.8	-17.5	
283471	Upgrade	65	60	85	69	68	95	46	47	71	-22.6	-20.4	-24.5	
283472	Upgrade	65	60	85	59	58	84	45	46	68	-14.1	-12.2	-15.6	
283475	Upgrade	65	60	85	63	62	90	44	45	69	-18.9	-16.4	-21.4	
283489	Upgrade	65	60	85	52	51	78	46	47	71	-5.9	-3.7	-6.8	
283505	Upgrade	65	60	85	57	56	83	45	46	69	-12.1	-9.7	-14.0	
283517	Upgrade	65	60	85	56	55	83	45	46	69	-11.2	-9.3	-14.2	
283519	Upgrade	65	60	85	58	56	84	44	45	68	-13.2	-10.7	-15.8	



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA				Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	
283521	Upgrade	65	60	85	67	65	95	45	46	69	-21.3	-18.4	-25.2	
283524	Upgrade	65	60	85	65	63	92	46	47	70	-19.6	-16.6	-21.9	
283526	Upgrade	65	60	85	68	66	96	46	47	70	-21.7	-18.9	-25.1	
283533	Upgrade	65	60	85	50	49	76	48	49	73	-1.4	0.3	-3.0	
283534	Upgrade	65	60	85	55	55	81	45	46	69	-10.5	-8.7	-12.6	
283549	Upgrade	65	60	85	53	53	81	46	47	70	-7.4	-5.9	-11.5	
283551	Upgrade	65	60	85	48	47	73	51	52	75	3.1	5.1	2.4	
283556	Upgrade	65	60	85	49	47	73	50	52	75	1.9	4.2	1.9	
283559	Upgrade	65	60	85	49	48	76	47	48	70	-2.3	-0.4	-5.6	
283562	Upgrade	65	60	85	51	50	78	47	48	71	-4.0	-1.8	-6.9	
283567	Upgrade	65	60	85	50	49	77	47	48	70	-3.3	-1.5	-7.3	
283575	Upgrade	65	60	85	54	53	81	48	49	71	-6.5	-4.5	-9.8	
283580	Upgrade	65	60	85	62	60	89	45	46	69	-17.4	-14.6	-20.8	
283581	Upgrade	65	60	85	60	58	84	43	44	67	-16.2	-13.4	-16.9	
283587	Upgrade	65	60	85	64	62	92	45	46	69	-19.1	-16.2	-23.0	
283596	Upgrade	65	60	85	47	46	71	50	51	75	3.0	4.9	4.0	
283598	Upgrade	65	60	85	55	54	81	44	45	69	-11.1	-8.7	-12.1	
283599	Upgrade	65	60	85	71	69	99	45	46	68	-26.6	-23.8	-30.7	
283600	Upgrade	65	60	85	54	53	79	45	46	69	-9.1	-7.0	-10.4	
283608	Upgrade	65	60	85	49	48	73	46	47	69	-3.2	-1.0	-3.9	
283611	Upgrade	65	60	85	68	66	95	46	47	70	-21.9	-19.1	-24.8	
283613	Upgrade	65	60	85	57	56	83	46	47	70	-11.7	-9.5	-12.7	
283615	Upgrade	65	60	85	52	52	80	45	46	69	-7.0	-5.6	-10.9	
283618	Upgrade	65	60	85	49	48	73	46	47	69	-2.7	-0.6	-3.6	
283619	Upgrade	65	60	85	49	48	73	46	47	70	-3.0	-1.2	-3.2	
283620	Upgrade	65	60	85	50	49	76	45	46	69	-4.7	-2.9	-7.4	
283625	Upgrade	65	60	85	51	50	79	47	48	71	-4.1	-2.3	-8.5	
283649	Upgrade	65	60	85	50	49	74	46	47	70	-3.7	-1.8	-4.0	
283651	Upgrade	65	60	85	50	49	75	46	47	69	-4.1	-2.4	-5.3	
283652	Upgrade	65	60	85	58	56	85	45	47	70	-12.4	-9.7	-15.5	
283655	Upgrade	65	60	85	57	55	84	42	43	67	-14.5	-11.8	-17.1	
283664	Upgrade	65	60	85	56	55	83	44	45	68	-11.9	-9.4	-14.9	
283670	Upgrade	65	60	85	53	52	78	45	46	69	-8.6	-6.2	-9.6	
283672	Upgrade	65	60	85	50	49	76	46	47	70	-3.8	-2.1	-5.8	
283674	Upgrade	65	60	85	62	60	89	45	46	69	-16.6	-13.7	-19.8	
283681	Upgrade	65	60	85	80	78	107	46	47	71	-33.1	-30.6	-35.9	
283682	Upgrade	65	60	85	51	50	78	44	45	68	-7.4	-5.1	-9.1	
283683	Upgrade	65	60	85	67	65	95	46	47	71	-20.9	-18.0	-24.1	
283690	Upgrade	65	60	85	56	55	81	45	46	69	-11.5	-9.2	-12.9	
283694	Upgrade	65	60	85	61	59	88	45	46	69	-15.9	-13.1	-18.7	
283700	Upgrade	65	60	85	47	46	72	46	47	69	-1.4	0.5	-3.2	
283703	Upgrade	65	60	85	52	51	77	47	48	71	-5.0	-2.8	-6.0	
283711	Upgrade	65	60	85	49	48	75	48	49	72	-1.3	0.5	-3.5	
283715	Upgrade	65	60	85	62	60	89	45	46	69	-16.9	-14.0	-20.2	
283717	Upgrade	65	60	85	77	77	107	50	51	74	-27.8	-25.8	-33.1	
283724	Upgrade	65	60	85	46	45	70	52	53	76	5.5	7.6	6.4	
283732	Upgrade	65	60	85	58	57	86	43	44	67	-15.5	-12.8	-18.5	
283734	Upgrade	65	60	85	61	59	88	45	46	69	-16.2	-13.3	-19.5	
283735	Upgrade	65	60	85	68	66	96	46	47	70	-22.4	-19.4	-25.9	
283739	Upgrade	65	60	85	51	50	75	48	49	72	-2.2	-0.1	-2.9	
283740	Upgrade	65	60	85	72	70	100	44	45	68	-27.7	-24.8	-31.5	



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA				Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmix	LAeq,15hr	LAeq,9hr	LAmix	LAeq,15hr	LAeq,9hr	LAmix	
283741	Upgrade	65	60	85	85	58	56	84	46	47	70	-11.7	-9.2	-14.6
283744	Upgrade	65	60	85	51	50	76	47	48	70	-4.1	-1.9	-5.2	
283749	Upgrade	65	60	85	54	52	78	47	48	71	-6.7	-4.5	-6.9	
283754	Upgrade	65	60	85	53	52	79	44	45	68	-8.7	-6.7	-11.2	
283755	Upgrade	65	60	85	45	44	69	50	51	74	5.4	7.5	5.4	
283759	Upgrade	65	60	85	61	59	89	45	46	70	-15.9	-13.0	-19.3	
283761	Upgrade	65	60	85	48	47	73	49	50	72	0.5	2.7	-0.9	
283763	Upgrade	65	60	85	51	50	76	46	47	70	-5.0	-2.7	-6.3	
283764	Upgrade	65	60	85	59	57	83	46	47	70	-13.1	-10.5	-13.3	
283767	Upgrade	65	60	85	52	51	79	45	46	70	-7.1	-4.8	-9.2	
283771	Upgrade	65	60	85	45	44	71	48	49	72	3.2	4.9	0.2	
283774	Upgrade	65	60	85	51	50	76	46	47	69	-5.5	-3.3	-7.2	
283788	Upgrade	65	60	85	51	50	77	47	48	71	-4.2	-2.2	-6.2	
283791	Upgrade	65	60	85	48	47	71	47	48	72	-0.5	1.6	0.5	
283797	Upgrade	65	60	85	58	56	85	45	46	69	-12.8	-10.1	-16.1	
283798	Upgrade	65	60	85	59	57	86	45	46	69	-14.0	-11.2	-17.3	
283800	Upgrade	65	60	85	48	47	72	47	48	70	-1.2	0.8	-1.8	
283801	Upgrade	65	60	85	57	55	81	46	47	70	-11.0	-8.3	-11.3	
283805	Upgrade	65	60	85	54	53	79	46	47	70	-7.6	-5.4	-8.7	
283813	Upgrade	65	60	85	49	48	73	48	49	72	-1.7	0.2	-1.8	
283815	Upgrade	65	60	85	56	54	81	45	47	69	-10.1	-7.4	-12.7	
283818	Upgrade	65	60	85	57	55	83	43	44	67	-14.1	-11.3	-16.4	
283819	Upgrade	65	60	85	54	52	78	47	48	71	-6.6	-4.2	-7.2	
283823	Upgrade	65	60	85	49	49	75	49	50	72	-0.6	1.1	-2.7	
283833	Upgrade	65	60	85	45	44	73	47	48	71	2.6	3.8	-2.1	
283838	Upgrade	65	60	85	60	58	87	46	47	71	-13.4	-10.6	-16.0	
283851	Upgrade	65	60	85	51	50	76	49	50	72	-2.8	-0.6	-4.2	
283854	Upgrade	65	60	85	58	57	86	46	47	70	-12.7	-9.8	-15.6	
283857	Upgrade	65	60	85	56	54	83	46	47	70	-9.9	-7.1	-12.4	
283858	Upgrade	65	60	85	64	62	91	45	46	70	-18.4	-15.4	-21.2	
283862	Upgrade	65	60	85	53	51	79	46	47	69	-7.2	-4.8	-9.7	
283866	Upgrade	65	60	85	64	63	92	45	46	70	-19.1	-16.2	-22.2	
283874	Upgrade	65	60	85	61	59	87	44	45	68	-16.6	-14.1	-19.5	
283877	Upgrade	65	60	85	55	54	82	44	45	67	-11.6	-8.9	-14.4	
283881	Upgrade	65	60	85	55	54	81	47	48	70	-8.2	-5.7	-10.2	
283882	Upgrade	65	60	85	66	64	94	44	45	68	-22.2	-19.4	-25.5	
283888	New	60	55	80	-	-	-	47	48	70	-	-	-	
283891	New	60	55	80	-	-	-	50	51	74	-	-	-	
283893	Upgrade	65	60	85	59	57	86	46	47	70	-12.2	-9.3	-15.6	
283896	Upgrade	65	60	85	67	66	95	46	47	71	-21.1	-18.4	-23.4	
283897	New	60	55	80	-	-	-	46	47	71	-	-	-	
283901	Upgrade	65	60	85	56	54	83	46	47	70	-9.8	-7.2	-13.3	
283902	Upgrade	65	60	85	48	46	72	47	48	71	-0.7	1.4	-1.0	
283905	Upgrade	65	60	85	60	58	87	45	46	68	-14.7	-11.9	-18.8	
283911	Upgrade	65	60	85	54	53	81	46	47	71	-8.2	-5.8	-10.0	
283912	Upgrade	65	60	85	49	49	73	49	50	74	-0.9	0.9	0.9	
283914	Upgrade	65	60	85	47	46	71	46	47	71	-1.1	1.1	0.2	
283919	Upgrade	65	60	85	53	52	77	46	47	70	-6.9	-4.6	-7.4	
283921	Upgrade	65	60	85	47	46	71	46	47	70	-1.7	0.3	-0.8	
283927	Upgrade	65	60	85	50	49	74	47	49	71	-2.3	-0.4	-3.6	
283933	Upgrade	65	60	85	50	48	74	48	49	72	-2.0	0.1	-1.9	



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		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmix	LAeq,15hr	LAeq,9hr	LAmix	LAeq,15hr	LAeq,9hr	LAmix
283936	Upgrade	65	60	85	49	48	75	48	49	72	-1.0	1.2	-3.0
283937	Upgrade	65	60	85	50	49	74	47	48	70	-3.1	-1.2	-3.2
283939	Upgrade	65	60	85	53	52	79	46	47	70	-7.3	-4.9	-8.7
283940	Upgrade	65	60	85	59	57	86	47	48	71	-11.4	-8.5	-14.2
283944	Upgrade	65	60	85	52	51	78	47	48	71	-4.8	-2.4	-6.9
283946	Upgrade	65	60	85	55	54	82	45	46	69	-10.2	-7.6	-12.6
283949	New	60	55	80	-	-	-	50	51	73	-	-	-
283952	Upgrade	65	60	85	52	50	76	47	48	71	-4.4	-2.0	-5.4
283953	Upgrade	65	60	85	54	52	78	46	47	70	-7.8	-5.3	-8.5
283959	Upgrade	65	60	85	51	50	76	45	46	70	-5.4	-3.1	-6.2
283964	Upgrade	65	60	85	51	50	75	47	48	71	-4.1	-2.0	-4.5
283966	Upgrade	65	60	85	56	55	83	47	48	71	-8.9	-6.1	-12.2
283967	Upgrade	65	60	85	52	51	77	47	48	71	-4.7	-2.2	-6.1
283972	Upgrade	65	60	85	51	50	75	48	49	72	-3.0	-0.6	-3.3
283973	Upgrade	65	60	85	54	52	80	47	48	71	-7.0	-4.6	-8.8
283976	New	60	55	80	-	-	-	48	49	71	-	-	-
283981	Upgrade	65	60	85	52	51	76	46	47	69	-6.6	-4.4	-7.5
283984	New	60	55	80	-	-	-	47	48	71	-	-	-
283985	Upgrade	65	60	85	52	50	76	46	47	70	-5.8	-3.4	-6.4
283987	Upgrade	65	60	85	56	55	80	44	45	69	-11.7	-9.7	-11.2
283990	Upgrade	65	60	85	51	50	75	45	46	68	-5.9	-4.0	-6.7
283992	Upgrade	65	60	85	56	55	80	45	46	70	-10.5	-8.6	-9.2
283993	Upgrade	65	60	85	51	50	75	48	49	72	-2.8	-0.5	-3.5
283994	Upgrade	65	60	85	61	61	87	48	49	72	-13.2	-11.7	-14.7
283997	Upgrade	65	60	85	52	50	78	45	46	69	-7.0	-4.7	-9.1
283998	Upgrade	65	60	85	59	59	85	46	47	70	-13.3	-11.6	-14.5
284000	New	60	55	80	-	-	-	48	49	71	-	-	-
284005	Upgrade	65	60	85	50	49	76	48	49	72	-2.7	-0.3	-3.8
284006	Upgrade	65	60	85	58	57	83	45	46	70	-12.6	-10.5	-13.4
284007	Upgrade	65	60	85	54	53	80	47	48	70	-7.5	-4.9	-10.3
284009	New	60	55	80	-	-	-	48	49	71	-	-	-
284010	Upgrade	65	60	85	14	15	39	30	31	52	15.6	16.4	13.3
284014	Upgrade	65	60	85	54	53	81	47	48	71	-7.0	-4.7	-9.9
284016	Upgrade	65	60	85	47	46	71	48	49	71	1.4	3.6	0.5
284017	Upgrade	65	60	85	50	49	77	45	46	68	-5.6	-3.3	-8.4
284020	Upgrade	65	60	85	47	46	71	49	50	72	1.7	3.8	0.2
284026	Upgrade	65	60	85	52	51	79	46	47	70	-5.9	-3.5	-9.4
284028	Upgrade	65	60	85	47	46	71	48	49	72	1.2	2.8	0.5
284030	Upgrade	65	60	85	50	49	74	47	48	71	-3.0	-0.8	-3.6
284032	Upgrade	65	60	85	52	50	79	46	47	70	-6.1	-3.6	-8.3
284035	Upgrade	65	60	85	60	60	86	48	49	72	-12.1	-10.9	-14.5
284043	Upgrade	65	60	85	53	51	77	45	46	68	-8.3	-5.8	-9.0
284056	Upgrade	65	60	85	50	49	75	45	46	70	-4.4	-2.2	-5.5
284057	Upgrade	65	60	85	54	53	81	47	48	71	-7.1	-4.6	-10.6
284073	Upgrade	65	60	85	49	48	72	46	47	69	-3.3	-1.3	-3.0
284074	New	60	55	80	-	-	-	51	52	75	-	-	-
284075	Upgrade	65	60	85	56	55	81	45	46	70	-10.4	-8.3	-10.7
284078	Upgrade	65	60	85	50	49	75	44	45	68	-6.1	-3.8	-7.0
284080	Upgrade	65	60	85	57	57	85	48	49	71	-9.5	-8.5	-14.0
284082	Upgrade	65	60	85	55	53	79	46	47	70	-9.0	-6.3	-9.6
284084	Upgrade	65	60	85	58	57	85	47	48	71	-10.9	-9.0	-14.1



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		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax
284086	Upgrade	65	60	85	49	48	72	48	49	71	-1.0	1.2	-1.0
284087	Upgrade	65	60	85	52	51	79	48	49	71	-4.5	-2.1	-7.9
284089	Upgrade	65	60	85	51	49	75	45	46	69	-5.7	-3.3	-6.4
284090	Upgrade	65	60	85	57	56	84	46	47	71	-11.3	-8.5	-13.5
284091	Upgrade	65	60	85	57	55	82	47	48	71	-9.4	-6.8	-10.4
284094	Upgrade	65	60	85	55	54	81	46	47	69	-9.8	-7.8	-11.8
284098	Upgrade	65	60	85	53	51	78	44	45	69	-8.5	-5.8	-8.6
284101	Upgrade	65	60	85	51	50	76	46	47	70	-5.1	-2.7	-5.7
284104	New	60	55	80	-	-	-	45	46	70	-	-	-
284105	Upgrade	65	60	85	51	51	79	46	47	70	-5.5	-4.4	-9.2
284106	New	60	55	80	-	-	-	46	47	71	-	-	-
284108	Upgrade	65	60	85	49	48	75	45	46	70	-3.9	-1.7	-4.9
284109	Upgrade	65	60	85	56	55	80	46	47	71	-10.2	-8.3	-8.8
284110	Upgrade	65	60	85	50	49	74	48	50	72	-2.0	0.4	-2.0
284111	New	60	55	80	-	-	-	45	46	70	-	-	-
284114	Upgrade	65	60	85	51	50	76	47	48	72	-4.0	-1.5	-4.6
284117	New	60	55	80	-	-	-	46	47	69	-	-	-
284118	Upgrade	65	60	85	51	50	77	46	47	69	-5.3	-2.7	-7.3
284121	Upgrade	65	60	85	53	51	77	45	46	69	-7.6	-5.0	-7.9
284122	Upgrade	65	60	85	55	54	79	48	49	72	-6.9	-4.6	-6.6
284123	Upgrade	65	60	85	53	51	79	44	45	69	-8.8	-6.2	-10.8
284125	Upgrade	65	60	85	48	47	72	47	48	70	-1.0	1.2	-1.7
284128	Upgrade	65	60	85	57	57	82	47	48	71	-10.6	-9.0	-10.7
284129	New	60	55	80	-	-	-	47	48	71	-	-	-
284130	Upgrade	65	60	85	52	51	77	48	49	72	-4.4	-2.0	-5.2
284131	Upgrade	65	60	85	57	55	84	45	46	70	-11.4	-8.6	-13.9
284132	New	60	55	80	-	-	-	46	47	70	-	-	-
284133	Upgrade	65	60	85	48	47	72	48	49	71	0.0	2.2	-1.0
284134	Upgrade	65	60	85	48	47	72	48	50	72	0.6	2.6	0.7
284136	New	60	55	80	-	-	-	48	49	72	-	-	-
284138	Upgrade	65	60	85	53	51	80	45	46	69	-7.8	-5.1	-10.3
284139	Upgrade	65	60	85	48	47	73	45	46	67	-3.5	-1.1	-5.5
284148	New	60	55	80	-	-	-	50	51	74	-	-	-
284152	Upgrade	65	60	85	56	54	81	48	49	72	-7.7	-5.0	-9.1
284153	Upgrade	65	60	85	49	47	74	47	48	70	-1.8	0.7	-4.2
284154	Upgrade	65	60	85	50	49	76	46	47	70	-4.2	-1.7	-5.5
284155	New	60	55	80	-	-	-	54	55	78	-	-	-
284158	Upgrade	65	60	85	54	53	78	47	49	72	-6.4	-4.2	-6.6
284163	Upgrade	65	60	85	51	49	75	47	48	71	-3.3	-0.8	-4.4
284164	Upgrade	65	60	85	48	47	74	48	49	73	-0.4	1.7	-1.0
284165	New	60	55	80	-	-	-	50	52	75	-	-	-
284167	Upgrade	65	60	85	49	48	73	47	48	71	-1.9	0.4	-1.9
284168	Upgrade	65	60	85	52	50	78	45	46	70	-6.6	-3.9	-7.8
284170	Upgrade	65	60	85	55	53	81	44	45	69	-10.6	-7.8	-12.2
284177	New	60	55	80	-	-	-	49	50	72	-	-	-
284178	Upgrade	65	60	85	54	54	77	46	47	71	-7.7	-6.5	-5.9
284180	Upgrade	65	60	85	50	49	75	49	50	72	-1.6	0.7	-2.7
284183	Upgrade	65	60	85	48	47	74	47	49	72	-0.9	1.5	-1.9
284184	Upgrade	65	60	85	51	49	76	47	48	70	-4.2	-1.6	-6.0
284187	Upgrade	65	60	85	64	64	93	49	50	73	-14.7	-13.6	-20.4
284190	New	60	55	80	-	-	-	49	50	72	-	-	-



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmix	LAeq,15hr	LAeq,9hr	LAmix	LAeq,15hr	LAeq,9hr	LAmix
284192	New	60	55	80	-	-	-	49	50	74	-	-	-
284193	Upgrade	65	60	85	52	50	78	45	46	69	-6.9	-4.3	-9.0
284195	New	60	55	80	-	-	-	49	50	72	-	-	-
284203	Upgrade	65	60	85	54	53	79	47	48	71	-7.1	-4.5	-7.3
284204	Upgrade	65	60	85	58	58	85	48	49	72	-10.4	-9.1	-13.0
284205	Upgrade	65	60	85	48	47	72	49	50	74	1.0	3.2	1.6
284207	Upgrade	65	60	85	55	54	80	47	48	72	-7.9	-6.1	-8.3
284208	New	60	55	80	-	-	-	48	50	72	-	-	-
284209	Upgrade	65	60	85	52	50	77	47	48	70	-4.7	-2.1	-6.2
284215	Upgrade	65	60	85	49	48	76	45	46	69	-4.3	-2.0	-6.3
284219	New	60	55	80	-	-	-	50	51	73	-	-	-
284226	Upgrade	65	60	85	51	49	75	44	45	69	-6.5	-4.0	-6.8
284227	Upgrade	65	60	85	50	48	74	48	49	72	-2.0	0.6	-2.2
284228	Upgrade	65	60	85	52	50	78	45	46	70	-6.3	-3.8	-7.4
284229	New	60	55	80	-	-	-	49	51	73	-	-	-
284235	Upgrade	65	60	85	50	48	77	45	46	70	-4.6	-2.2	-6.8
284241	Upgrade	65	60	85	52	50	77	47	48	70	-5.0	-2.6	-6.5
284243	Upgrade	65	60	85	56	54	82	45	46	70	-11.0	-8.3	-12.7
284246	Upgrade	65	60	85	49	48	75	48	49	71	-1.6	1.0	-3.6
284247	Upgrade	65	60	85	56	55	82	49	50	73	-6.2	-5.0	-9.5
284250	Upgrade	65	60	85	52	50	78	48	49	72	-4.0	-1.6	-5.1
284251	Upgrade	65	60	85	61	62	91	50	51	74	-11.8	-10.9	-17.0
284253	Upgrade	65	60	85	56	56	83	49	50	73	-7.3	-6.4	-9.8
284258	Upgrade	65	60	85	49	47	75	44	45	69	-4.4	-1.9	-6.5
284265	New	60	55	80	-	-	-	50	51	74	-	-	-
284266	Upgrade	65	60	85	55	53	80	48	49	72	-7.2	-4.5	-8.8
284269	Upgrade	65	60	85	45	44	71	46	47	70	0.6	2.5	-1.0
284271	Upgrade	65	60	85	56	55	80	49	50	73	-6.8	-5.4	-7.7
284274	Upgrade	65	60	85	49	48	74	47	48	72	-2.2	0.0	-2.7
284277	Upgrade	65	60	85	50	48	77	45	46	70	-5.4	-2.8	-7.0
284279	Upgrade	65	60	85	47	46	71	45	46	69	-1.8	0.2	-1.9
284281	Upgrade	65	60	85	50	49	74	47	48	71	-2.9	-0.5	-3.2
284283	Upgrade	65	60	85	53	52	77	47	48	73	-5.3	-3.7	-4.1
284284	Upgrade	65	60	85	53	52	76	48	49	73	-4.7	-3.2	-3.0
284292	New	60	55	80	-	-	-	51	52	75	-	-	-
284293	Upgrade	65	60	85	49	48	74	47	48	70	-1.8	0.6	-3.2
284294	New	60	55	80	-	-	-	48	49	71	-	-	-
284295	Upgrade	65	60	85	49	47	75	42	43	66	-6.7	-4.2	-9.3
284296	New	60	55	80	-	-	-	48	49	70	-	-	-
284298	Upgrade	65	60	85	53	51	79	47	48	72	-5.9	-3.4	-6.3
284300	Upgrade	65	60	85	52	50	78	45	46	69	-6.7	-3.9	-9.1
284302	Upgrade	65	60	85	48	46	73	45	47	69	-2.3	0.1	-3.9
284303	Upgrade	65	60	85	52	52	76	49	50	73	-3.7	-2.1	-2.9
284306	New	60	55	80	-	-	-	50	51	73	-	-	-
284311	Upgrade	65	60	85	52	51	77	47	48	72	-5.2	-3.0	-4.7
284315	New	60	55	80	-	-	-	47	48	71	-	-	-
284316	Upgrade	65	60	85	54	54	77	48	49	73	-5.9	-4.4	-4.4
284317	Upgrade	65	60	85	49	47	73	48	49	72	-1.1	1.2	-1.4
284319	Upgrade	65	60	85	53	52	79	48	49	72	-5.2	-2.7	-6.7
284323	Upgrade	65	60	85	47	46	71	45	46	70	-1.9	0.3	-1.1
284324	New	60	55	80	-	-	-	48	49	72	-	-	-

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmix	LAeq,15hr	LAeq,9hr	LAmix	LAeq,15hr	LAeq,9hr	LAmix
284326	New	60	55	80	-	-	-	49	50	74	-	-	-
284328	Upgrade	65	60	85	50	48	76	45	46	69	-4.7	-2.1	-7.3
284330	Upgrade	65	60	85	54	53	79	47	48	72	-7.0	-4.4	-7.0
284331	Upgrade	65	60	85	48	47	73	46	47	70	-2.1	0.2	-2.3
284332	Upgrade	65	60	85	51	50	73	48	49	73	-2.9	-1.3	-0.7
284333	Upgrade	65	60	85	52	51	76	47	48	72	-4.5	-2.3	-4.1
284335	Upgrade	65	60	85	49	48	73	46	47	70	-2.5	-0.1	-3.4
284336	New	60	55	80	-	-	-	47	48	71	-	-	-
284337	Upgrade	65	60	85	53	51	79	48	49	73	-4.9	-2.2	-5.5
284338	Upgrade	65	60	85	52	52	75	49	50	73	-3.2	-1.8	-1.6
284342	Upgrade	65	60	85	49	48	73	47	48	71	-2.5	-0.6	-1.3
284346	Upgrade	65	60	85	46	44	71	43	44	67	-2.9	-0.5	-4.0
284348	Upgrade	65	60	85	51	49	76	47	48	71	-3.9	-1.3	-4.3
284349	New	60	55	80	-	-	-	47	48	70	-	-	-
284352	Upgrade	65	60	85	50	49	77	44	45	68	-6.1	-3.4	-8.1
284356	Upgrade	65	60	85	50	48	77	46	47	70	-4.5	-1.9	-6.2
284362	Upgrade	65	60	85	48	47	72	47	48	71	-1.0	1.0	-0.8
284365	New	60	55	80	-	-	-	50	51	75	-	-	-
284366	New	60	55	80	-	-	-	48	49	72	-	-	-
284368	New	60	55	80	-	-	-	52	53	76	-	-	-
284369	Upgrade	65	60	85	53	52	78	48	49	72	-5.5	-2.9	-5.9
284370	Upgrade	65	60	85	45	44	70	47	48	71	2.2	3.7	1.3
284371	Upgrade	65	60	85	49	48	73	47	48	72	-1.7	0.6	-1.4
284380	Upgrade	65	60	85	53	53	77	49	50	74	-4.2	-2.7	-3.1
284386	New	60	55	80	-	-	-	50	51	74	-	-	-
284387	Upgrade	65	60	85	46	45	70	48	49	71	2.0	3.9	1.0
284391	Upgrade	65	60	85	52	50	78	49	50	74	-2.7	-0.1	-3.8
284392	Upgrade	65	60	85	45	44	69	49	50	73	4.1	5.8	3.7
284393	New	60	55	80	-	-	-	51	52	75	-	-	-
284394	Upgrade	65	60	85	50	50	73	48	49	72	-2.5	-1.0	-0.9
284396	Upgrade	65	60	85	44	43	68	47	48	71	2.7	4.8	3.3
284398	Upgrade	65	60	85	50	48	76	49	50	73	-1.0	1.5	-2.3
284399	Upgrade	65	60	85	47	46	73	49	50	73	2.1	4.3	-0.4
284401	New	60	55	80	-	-	-	49	50	72	-	-	-
284404	Upgrade	65	60	85	48	48	71	48	49	72	0.1	1.1	1.0
284407	New	60	55	80	-	-	-	49	50	73	-	-	-
284412	New	60	55	80	-	-	-	49	50	73	-	-	-
284419	Upgrade	65	60	85	45	44	71	46	47	71	1.6	3.7	0.0
284420	New	60	55	80	-	-	-	49	50	73	-	-	-
284421	Upgrade	65	60	85	48	47	73	48	50	73	0.2	2.7	0.2
284425	Upgrade	65	60	85	43	43	66	45	46	70	2.0	3.2	4.0
284426	New	60	55	80	-	-	-	50	51	74	-	-	-
284430	Upgrade	65	60	85	46	45	71	49	50	72	2.3	4.3	1.3
284431	Upgrade	65	60	85	52	51	75	45	46	70	-6.7	-4.9	-4.8
284436	New	60	55	80	-	-	-	50	51	74	-	-	-
284438	New	60	55	80	-	-	-	49	50	72	-	-	-
284440	Upgrade	65	60	85	48	47	73	47	48	72	-1.0	0.9	-0.9
284444	New	60	55	80	-	-	-	48	50	72	-	-	-
284446	Upgrade	65	60	85	49	48	74	50	51	75	0.6	2.8	0.5
284450	Upgrade	65	60	85	47	46	71	47	48	72	0.6	2.8	0.4
284453	New	60	55	80	-	-	-	49	50	73	-	-	-



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
284454	Upgrade	65	60	85	48	47	73	48	49	72	0.0	2.4	-1.0
284456	Upgrade	65	60	85	46	46	70	47	48	72	0.9	2.7	2.5
284462	New	60	55	80	-	-	-	48	49	72	-	-	-
284466	Upgrade	65	60	85	49	48	74	48	49	72	-1.3	1.1	-1.4
284475	Upgrade	65	60	85	46	45	70	48	49	72	2.3	4.2	2.6
284486	Upgrade	65	60	85	49	48	73	49	50	73	0.0	2.3	0.0
284488	New	60	55	80	-	-	-	49	50	72	-	-	-
284494	Upgrade	65	60	85	49	49	71	48	49	72	-0.6	0.7	1.4
284496	New	60	55	80	-	-	-	50	51	73	-	-	-
284499	New	60	55	80	-	-	-	51	52	75	-	-	-
284502	Upgrade	65	60	85	49	48	71	48	49	73	-0.2	1.3	2.1
284509	New	60	55	80	-	-	-	52	53	77	-	-	-
284511	Upgrade	65	60	85	52	51	76	46	47	71	-5.1	-3.4	-4.5
284512	Upgrade	65	60	85	55	53	81	51	52	76	-3.8	-1.1	-4.9
284519	Upgrade	65	60	85	47	46	72	51	52	75	4.1	6.1	3.8
284524	New	60	55	80	-	-	-	54	55	78	-	-	-
284528	Upgrade	65	60	85	47	46	70	49	50	73	1.8	3.7	2.8
284532	New	60	55	80	-	-	-	54	55	79	-	-	-
284542	New	60	55	80	-	-	-	54	55	79	-	-	-
284545	Upgrade	65	60	85	52	50	75	50	51	75	-1.5	0.8	-0.3
284548	New	60	55	80	-	-	-	53	54	77	-	-	-
284549	Upgrade	65	60	85	48	47	73	49	50	73	1.0	3.3	-0.4
284553	New	60	55	80	-	-	-	53	54	77	-	-	-
284556	Upgrade	65	60	85	49	48	74	48	49	73	-1.6	0.9	-1.3
284557	New	60	55	80	-	-	-	49	51	74	-	-	-
284568	New	60	55	80	-	-	-	53	54	77	-	-	-
284569	New	60	55	80	-	-	-	52	53	76	-	-	-
284571	Upgrade	65	60	85	55	55	79	49	50	74	-5.9	-4.8	-4.9
284581	New	60	55	80	-	-	-	53	54	77	-	-	-
284582	New	60	55	80	-	-	-	51	52	76	-	-	-
284595	Upgrade	65	60	85	49	48	70	49	50	74	0.1	1.5	3.6
284596	New	60	55	80	-	-	-	53	54	77	-	-	-
284603	New	60	55	80	-	-	-	53	54	77	-	-	-
284605	Upgrade	65	60	85	48	47	73	50	51	75	2.1	4.5	2.1
284607	New	60	55	80	-	-	-	52	53	77	-	-	-
284613	New	60	55	80	-	-	-	53	55	78	-	-	-
284618	New	60	55	80	-	-	-	53	54	78	-	-	-
284621	New	60	55	80	-	-	-	53	54	77	-	-	-
284627	New	60	55	80	-	-	-	54	55	79	-	-	-
284633	Upgrade	65	60	85	50	48	75	51	52	76	1.7	4.1	1.4
284634	Upgrade	65	60	85	45	44	68	50	51	75	5.7	7.6	6.9
284650	Upgrade	65	60	85	55	54	77	49	50	73	-5.9	-4.2	-4.7
284651	New	60	55	80	-	-	-	52	53	76	-	-	-
284658	New	60	55	80	-	-	-	52	53	76	-	-	-
284665	New	60	55	80	-	-	-	59	60	84	-	-	-
284683	New	60	55	80	-	-	-	51	52	75	-	-	-
284709	Upgrade	65	60	85	54	53	78	49	50	73	-4.6	-2.3	-5.3
284713	Upgrade	65	60	85	55	54	77	47	48	70	-7.7	-6.2	-6.9
284725	Upgrade	65	60	85	51	50	75	51	52	75	-0.1	2.2	0.7
284765	Upgrade	65	60	85	54	54	77	49	50	74	-4.7	-3.6	-3.2
284772	New	60	55	80	-	-	-	61	62	86	-	-	-

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA				Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	
284810	Upgrade	65	60	85	52	51	76	49	50	73	-2.4	-0.3	-2.3	
284813	Upgrade	65	60	85	51	50	76	51	52	76	0.0	2.4	-0.3	
284820	Upgrade	65	60	85	55	55	78	47	48	72	-7.7	-6.5	-5.5	
284825	New	60	55	80	-	-	-	53	54	77	-	-	-	
284834	Upgrade	65	60	85	48	48	69	48	49	73	0.2	1.3	3.7	
284843	Upgrade	65	60	85	52	51	74	47	48	70	-4.5	-2.6	-4.3	
284868	Upgrade	65	60	85	12	12	38	32	33	53	20.5	21.0	15.3	
284878	Upgrade	65	60	85	55	55	78	46	47	71	-9.0	-7.6	-6.4	
284889	Upgrade	65	60	85	53	52	77	47	48	70	-6.1	-4.6	-7.6	
284958	Upgrade	65	60	85	50	49	74	47	48	72	-2.7	-0.7	-1.8	
284960	Upgrade	65	60	85	50	49	71	50	51	75	0.7	1.9	3.5	
284964	Upgrade	65	60	85	51	50	74	46	47	70	-4.3	-2.2	-4.3	
284971	Upgrade	65	60	85	52	50	76	48	49	72	-3.8	-1.6	-3.8	
284982	Upgrade	65	60	85	51	51	75	47	48	72	-4.1	-2.3	-3.4	
284987	Upgrade	65	60	85	53	52	76	47	48	71	-5.7	-4.2	-5.8	
284996	Upgrade	65	60	85	53	52	77	47	48	72	-5.7	-4.0	-5.3	
284997	Upgrade	65	60	85	41	41	61	42	43	67	0.5	1.4	5.7	
284998	Upgrade	65	60	85	54	54	76	49	50	73	-5.2	-3.8	-3.1	
285052	Upgrade	65	60	85	49	48	73	50	51	75	0.5	2.5	2.0	
285058	Upgrade	65	60	85	51	50	74	47	48	72	-3.7	-1.7	-2.0	
285072	Upgrade	65	60	85	53	52	79	47	48	72	-6.2	-4.0	-7.6	
285078	Upgrade	65	60	85	54	53	77	48	49	73	-5.9	-4.4	-3.6	
285095	Upgrade	65	60	85	49	48	72	49	50	74	0.6	2.5	1.7	
285110	Upgrade	65	60	85	49	48	74	47	48	72	-1.7	0.5	-2.2	
285118	Upgrade	65	60	85	53	53	75	48	49	73	-5.5	-4.2	-2.6	
285137	Upgrade	65	60	85	49	47	72	49	50	74	0.5	2.7	1.4	
285144	Upgrade	65	60	85	48	47	73	47	48	72	-0.9	1.1	-1.0	
285154	Upgrade	65	60	85	53	53	75	48	49	73	-5.0	-3.8	-2.3	
285174	Upgrade	65	60	85	49	48	73	49	50	73	-0.3	1.8	0.5	
285190	Upgrade	65	60	85	48	47	72	48	49	73	-0.1	1.9	0.6	
285208	Upgrade	65	60	85	53	53	75	47	48	73	-5.8	-4.4	-2.5	
285209	New	60	55	80	-	-	-	50	51	74	-	-	-	
285232	Upgrade	65	60	85	48	47	73	47	48	70	-1.9	0.2	-3.0	
285238	Upgrade	65	60	85	52	52	75	48	49	73	-4.5	-3.5	-2.1	
285267	New	60	55	80	-	-	-	52	53	77	-	-	-	
285276	New	60	55	80	-	-	-	51	52	76	-	-	-	
285284	Upgrade	65	60	85	52	52	75	50	51	75	-2.5	-1.3	0.0	
285292	New	60	55	80	-	-	-	52	54	77	-	-	-	
285293	Upgrade	65	60	85	42	42	63	45	46	70	2.2	3.1	7.1	
285305	Upgrade	65	60	85	42	42	63	45	46	70	2.2	3.1	6.9	
285319	New	60	55	80	-	-	-	52	53	76	-	-	-	
285351	New	60	55	80	-	-	-	50	51	76	-	-	-	
285382	New	60	55	80	-	-	-	51	52	76	-	-	-	
285389	Upgrade	65	60	85	41	41	63	43	44	68	1.4	2.4	4.7	
285415	New	60	55	80	-	-	-	51	52	76	-	-	-	
285425	New	60	55	80	-	-	-	58	59	83	-	-	-	
285426	Upgrade	65	60	85	43	43	64	46	47	71	3.4	4.3	7.3	
285427	Upgrade	65	60	85	42	42	63	44	45	69	2.7	3.7	6.2	
285463	New	60	55	80	-	-	-	52	53	77	-	-	-	
285492	Upgrade	65	60	85	43	44	65	46	47	71	2.4	3.3	6.2	
285505	New	60	55	80	-	-	-	57	58	81	-	-	-	



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		L <sub>Aeq</sub> Day	L <sub>Aeq</sub> Night	L <sub>max</sub>	L <sub>Aeq,15hr</sub>	L <sub>Aeq,9hr</sub>	L <sub>max</sub>	L <sub>Aeq,15hr</sub>	L <sub>Aeq,9hr</sub>	L <sub>max</sub>	L <sub>Aeq,15hr</sub>	L <sub>Aeq,9hr</sub>	L <sub>max</sub>
285513	New	60	55	80	-	-	-	54	55	79	-	-	-
285535	New	60	55	80	-	-	-	53	54	77	-	-	-
285538	Upgrade	65	60	85	43	43	64	46	47	71	2.6	3.4	7.3
285577	New	60	55	80	-	-	-	52	53	77	-	-	-
285615	New	60	55	80	-	-	-	52	53	77	-	-	-
285616	New	60	55	80	-	-	-	52	53	76	-	-	-
285617	Upgrade	65	60	85	44	44	64	47	48	71	3.0	3.9	7.7
285647	New	60	55	80	-	-	-	53	54	78	-	-	-
285670	New	60	55	80	-	-	-	53	55	78	-	-	-
285678	New	60	55	80	-	-	-	53	54	78	-	-	-
285719	New	60	55	80	-	-	-	53	54	78	-	-	-
285740	New	60	55	80	-	-	-	53	54	78	-	-	-
285767	New	60	55	80	-	-	-	53	54	77	-	-	-
285769	New	60	55	80	-	-	-	55	56	80	-	-	-
285796	New	60	55	80	-	-	-	58	59	83	-	-	-
285797	New	60	55	80	-	-	-	50	51	75	-	-	-
285798	New	60	55	80	-	-	-	57	58	82	-	-	-
285802	New	60	55	80	-	-	-	58	59	84	-	-	-
285808	New	60	55	80	-	-	-	51	52	75	-	-	-
285812	New	60	55	80	-	-	-	52	53	77	-	-	-
285813	New	60	55	80	-	-	-	56	57	82	-	-	-
285827	New	60	55	80	-	-	-	56	57	81	-	-	-
285836	New	60	55	80	-	-	-	57	58	82	-	-	-
285848	New	60	55	80	-	-	-	54	55	80	-	-	-
285850	New	60	55	80	-	-	-	57	58	82	-	-	-
285873	New	60	55	80	-	-	-	58	59	84	-	-	-
285875	New	-	-	-	-	-	-	56	-	-	-	-	-
285876	New	60	55	80	-	-	-	53	54	78	-	-	-
285877	New	60	55	80	-	-	-	52	53	77	-	-	-
285890	New	60	55	80	-	-	-	51	52	75	-	-	-
285902	New	60	55	80	-	-	-	59	60	84	-	-	-
285903	New	60	55	80	-	-	-	56	57	81	-	-	-
285909	Upgrade	65	60	85	44	44	65	47	48	72	3.6	4.3	7.4
285918	New	60	55	80	-	-	-	58	59	83	-	-	-
285921	New	60	55	80	-	-	-	53	54	78	-	-	-
285946	New	60	55	80	-	-	-	61	63	87	-	-	-
285947	New	60	55	80	-	-	-	53	54	78	-	-	-
285960	Upgrade	65	60	85	44	45	67	48	49	73	3.8	4.6	6.3
285962	New	60	55	80	-	-	-	58	59	83	-	-	-
285964	New	60	55	80	-	-	-	61	62	86	-	-	-
285978	Upgrade	65	60	85	48	49	71	51	52	75	2.7	3.5	4.2
285979	New	60	55	80	-	-	-	53	54	78	-	-	-
285988	New	60	55	80	-	-	-	58	59	84	-	-	-
285991	New	60	55	80	-	-	-	53	54	78	-	-	-
286034	New	60	55	80	-	-	-	54	55	79	-	-	-
286035	New	60	55	80	-	-	-	58	59	84	-	-	-
286048	New	60	55	80	-	-	-	59	60	84	-	-	-
286055	New	60	55	80	-	-	-	54	55	79	-	-	-
286063	New	60	55	80	-	-	-	59	60	84	-	-	-
286080	New	60	55	80	-	-	-	59	60	84	-	-	-
286120	New	60	55	80	-	-	-	56	57	81	-	-	-

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmix	LAeq,15hr	LAeq,9hr	LAmix	LAeq,15hr	LAeq,9hr	LAmix
286124	New	60	55	80	-	-	-	62	63	88	-	-	-
286131	New	60	55	80	-	-	-	55	56	80	-	-	-
286147	New	60	55	80	-	-	-	57	58	82	-	-	-
286156	New	60	55	80	-	-	-	62	64	88	-	-	-
286173	Upgrade	65	60	85	31	31	56	34	36	60	3.3	4.1	3.8
286204	Upgrade	65	60	85	35	35	59	37	38	63	2.5	3.2	3.5
286215	New	60	55	80	-	-	-	57	58	82	-	-	-
286222	New	60	55	80	-	-	-	66	67	92	-	-	-
286232	Upgrade	65	60	85	41	41	64	46	47	71	4.9	5.6	6.2
286268	Upgrade	65	60	85	37	37	60	40	41	65	2.8	3.4	5.0
286270	Upgrade	65	60	85	43	43	67	48	49	73	5.1	5.8	6.3
286288	Upgrade	65	60	85	37	37	60	40	41	65	2.8	3.4	4.5
286293	Upgrade	65	60	85	43	43	67	48	49	73	5.2	5.9	6.0
286313	Upgrade	65	60	85	40	40	64	45	46	70	4.9	5.6	6.1
286327	Upgrade	65	60	85	32	33	58	35	36	60	2.4	3.2	2.2
286336	New	60	55	80	-	-	-	61	62	87	-	-	-
286349	New	60	55	80	-	-	-	62	63	88	-	-	-
286363	New	60	55	80	-	-	-	64	65	90	-	-	-
286385	Upgrade	65	60	85	36	36	60	39	40	64	3.4	4.1	4.8
286405	Upgrade	65	60	85	46	46	67	50	51	74	4.0	4.7	6.8
286481	Upgrade	65	60	85	40	41	65	45	46	70	4.6	5.3	5.5
286495	Upgrade	65	60	85	40	40	61	44	45	69	4.4	5.2	7.9
286525	Upgrade	65	60	85	39	40	63	44	45	69	4.2	4.9	5.6
286549	Upgrade	65	60	85	40	40	64	44	45	69	4.0	4.6	5.6
286558	Upgrade	65	60	85	39	39	61	43	44	68	3.8	4.5	7.0
286574	Upgrade	65	60	85	38	38	62	42	43	67	4.4	5.0	5.3
286577	Upgrade	65	60	85	40	40	62	44	45	69	4.0	4.7	6.6
286594	Upgrade	65	60	85	41	41	64	45	46	70	4.5	5.1	5.8
286610	Upgrade	65	60	85	38	38	62	43	44	68	5.1	5.8	6.0
286625	Upgrade	65	60	85	40	41	64	45	46	70	4.3	5.0	5.9
286683	Upgrade	65	60	85	45	45	69	51	52	75	5.6	6.3	6.8
286699	Upgrade	65	60	85	40	41	63	45	46	70	4.6	5.2	6.7
286760	Upgrade	65	60	85	42	43	67	47	48	72	4.8	5.4	5.2
286768	Upgrade	65	60	85	41	41	63	45	46	70	4.2	4.9	6.2
286783	Upgrade	65	60	85	41	41	64	45	46	70	4.5	5.2	5.9
286786	Upgrade	65	60	85	43	43	66	47	48	72	4.6	5.2	5.6
286788	Upgrade	65	60	85	42	43	66	47	48	72	5.0	5.7	6.0
286792	Upgrade	65	60	85	42	42	64	46	47	71	4.8	5.5	6.8
286814	Upgrade	65	60	85	43	43	66	48	49	72	4.9	5.5	5.8
286827	Upgrade	65	60	85	43	43	65	47	48	72	4.8	5.5	7.6
286836	Upgrade	65	60	85	41	42	65	46	47	71	4.9	5.6	6.6
286859	Upgrade	65	60	85	43	43	66	48	49	72	5.0	5.6	6.7
286864	New	60	55	80	-	-	-	67	68	92	-	-	-
286895	Upgrade	65	60	85	42	43	65	47	48	72	5.0	5.7	6.9
286928	New	60	55	80	-	-	-	56	57	81	-	-	-
286949	Upgrade	65	60	85	42	42	66	47	48	72	4.9	5.5	5.3
286959	Upgrade	65	60	85	42	42	66	47	48	72	5.0	5.8	6.2
287013	New	60	55	80	-	-	-	68	69	94	-	-	-
287076	New	60	55	80	-	-	-	69	70	94	-	-	-
287099	Upgrade	65	60	85	46	47	71	51	52	76	4.2	5.0	5.2
287107	Upgrade	65	60	85	42	42	65	46	47	71	4.5	5.1	5.8



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax
287126	Upgrade	65	60	85	45	45	69	50	51	75	4.9	5.5	6.0
287135	Upgrade	65	60	85	42	42	65	46	47	71	4.8	5.5	6.6
287138	Upgrade	65	60	85	51	52	75	59	60	84	7.4	8.3	9.0
287159	Upgrade	65	60	85	43	44	66	48	49	73	4.7	5.4	6.8
287201	Upgrade	65	60	85	46	46	70	51	52	75	4.6	5.3	4.8
287217	New	60	55	80	-	-	-	68	69	94	-	-	-
287230	Upgrade	65	60	85	43	43	66	47	48	72	4.2	4.9	6.0
287234	Upgrade	65	60	85	39	39	64	44	45	69	5.1	5.8	5.2
287243	Upgrade	65	60	85	43	44	67	48	49	73	4.8	5.4	6.0
287249	Upgrade	65	60	85	49	49	73	53	54	78	4.2	4.9	5.8
287257	Upgrade	65	60	85	41	41	65	46	47	71	4.9	5.6	5.6
287267	Upgrade	65	60	85	44	44	68	49	50	74	5.1	5.8	6.4
287275	Upgrade	65	60	85	43	43	67	48	49	73	5.2	5.9	5.9
287311	Upgrade	65	60	85	41	41	65	46	47	71	4.8	5.6	6.0
287353	Upgrade	65	60	85	44	44	67	49	50	74	5.3	5.9	6.6
287358	Upgrade	65	60	85	44	44	67	49	50	74	4.9	5.6	6.5
287386	Upgrade	65	60	85	42	42	66	47	48	72	4.9	5.6	5.9
287394	Upgrade	65	60	85	45	45	69	50	51	75	5.2	5.8	5.9
287402	Upgrade	65	60	85	44	45	69	49	50	74	5.1	5.8	5.6
287409	Upgrade	65	60	85	44	45	68	50	51	74	5.3	6.0	6.4
287416	Upgrade	65	60	85	42	42	66	47	48	72	4.8	5.5	5.5
287432	Upgrade	65	60	85	40	41	64	45	46	70	5.1	5.8	6.1
287445	Upgrade	65	60	85	43	43	66	48	49	73	5.1	5.8	6.5
287450	Upgrade	65	60	85	43	43	66	48	49	73	5.4	6.1	7.3
287477	Upgrade	65	60	85	41	42	65	46	47	71	5.0	5.7	5.9
287483	Upgrade	65	60	85	44	44	67	49	50	74	5.1	5.7	6.4
287518	Upgrade	65	60	85	48	49	71	53	54	77	5.0	5.6	6.2
287534	New	60	55	80	-	-	-	57	58	83	-	-	-
287541	Upgrade	65	60	85	45	46	69	50	51	75	5.1	5.8	6.6
287545	Upgrade	65	60	85	43	43	68	48	49	73	5.2	5.9	5.3
287550	Upgrade	65	60	85	45	45	69	50	51	75	5.1	5.8	6.2
287552	Upgrade	65	60	85	42	43	67	48	49	73	5.2	5.8	6.0
287557	Upgrade	65	60	85	41	41	65	46	47	71	5.3	5.9	6.2
287564	Upgrade	65	60	85	43	43	67	48	49	73	5.1	5.7	5.7
287571	New	60	55	80	-	-	-	54	55	80	-	-	-
287576	Upgrade	65	60	85	42	42	66	47	48	72	5.5	6.2	6.0
287579	Upgrade	65	60	85	43	43	67	48	49	73	5.4	6.1	6.1
287583	Upgrade	65	60	85	47	47	71	52	53	77	4.6	5.2	6.0
287585	Upgrade	65	60	85	48	48	71	53	54	77	4.6	5.3	6.2
287614	New	60	55	80	-	-	-	54	55	79	-	-	-
287627	New	60	55	80	-	-	-	56	57	81	-	-	-
287631	Upgrade	65	60	85	42	42	67	47	48	72	5.1	5.8	5.2
287637	Upgrade	65	60	85	54	54	78	56	57	81	2.2	3.0	3.4
287639	Upgrade	65	60	85	42	42	67	47	48	72	5.3	6.0	5.6
287650	Upgrade	65	60	85	44	44	68	49	50	74	5.4	6.1	5.8
287654	Upgrade	65	60	85	40	41	64	46	47	70	5.2	5.9	6.2
287668	New	60	55	80	-	-	-	53	54	78	-	-	-
287677	Upgrade	65	60	85	41	41	65	47	48	71	5.7	6.4	6.8
287678	New	60	55	80	-	-	-	54	55	80	-	-	-
287683	Upgrade	65	60	85	44	45	69	50	51	75	5.2	5.9	6.0
287686	Upgrade	65	60	85	43	44	67	48	49	73	5.0	5.7	5.8

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax
287688	Upgrade	65	60	85	40	40	64	44	45	69	4.8	5.5	5.6
287709	Upgrade	65	60	85	39	39	62	43	44	68	4.6	5.3	5.8
287716	Upgrade	65	60	85	46	46	70	51	52	76	5.2	5.9	6.0
287725	New	60	55	80	-	-	-	52	53	77	-	-	-
287732	New	60	55	80	-	-	-	54	55	79	-	-	-
287780	New	60	55	80	-	-	-	55	56	80	-	-	-
287783	New	60	55	80	-	-	-	53	53	77	-	-	-
287807	Upgrade	65	60	85	41	42	65	47	48	72	5.3	6.0	6.4
287818	New	60	55	80	-	-	-	55	56	80	-	-	-
287823	New	60	55	80	-	-	-	53	54	78	-	-	-
287850	New	60	55	80	-	-	-	53	54	78	-	-	-
287853	New	60	55	80	-	-	-	53	54	78	-	-	-
287856	New	60	55	80	-	-	-	56	57	81	-	-	-
287863	New	60	55	80	-	-	-	57	58	82	-	-	-
287887	New	60	55	80	-	-	-	56	57	81	-	-	-
287895	New	60	55	80	-	-	-	57	58	82	-	-	-
287896	New	60	55	80	-	-	-	52	53	77	-	-	-
287905	New	60	55	80	-	-	-	55	56	80	-	-	-
287906	New	60	55	80	-	-	-	56	57	81	-	-	-
287910	New	60	55	80	-	-	-	57	58	82	-	-	-
287914	New	60	55	80	-	-	-	58	59	83	-	-	-
287919	New	60	55	80	-	-	-	55	56	81	-	-	-
287927	New	60	55	80	-	-	-	53	54	78	-	-	-
287932	New	60	55	80	-	-	-	57	58	82	-	-	-
287933	New	60	55	80	-	-	-	55	56	81	-	-	-
287935	New	60	55	80	-	-	-	55	56	81	-	-	-
287946	New	60	55	80	-	-	-	55	56	81	-	-	-
287952	New	60	55	80	-	-	-	56	57	81	-	-	-
287969	New	60	55	80	-	-	-	55	56	80	-	-	-
287972	New	60	55	80	-	-	-	55	56	81	-	-	-
287979	New	60	55	80	-	-	-	56	57	81	-	-	-
287980	New	60	55	80	-	-	-	52	53	77	-	-	-
287986	New	60	55	80	-	-	-	52	53	76	-	-	-
287991	New	60	55	80	-	-	-	55	56	80	-	-	-
287999	New	60	55	80	-	-	-	55	56	81	-	-	-
288001	New	60	55	80	-	-	-	56	57	81	-	-	-
288025	New	60	55	80	-	-	-	52	53	76	-	-	-
288027	New	60	55	80	-	-	-	52	54	78	-	-	-
288040	New	60	55	80	-	-	-	51	52	76	-	-	-
288041	New	60	55	80	-	-	-	57	58	83	-	-	-
288043	New	60	55	80	-	-	-	52	53	77	-	-	-
288048	Upgrade	65	60	85	38	38	61	43	44	68	4.6	5.3	6.3
288050	New	60	55	80	-	-	-	52	53	77	-	-	-
288055	New	60	55	80	-	-	-	53	54	78	-	-	-
288056	Upgrade	65	60	85	37	38	61	43	44	68	5.3	6.0	6.6
288070	New	60	55	80	-	-	-	53	54	78	-	-	-
288071	Upgrade	65	60	85	39	39	61	44	45	69	5.6	6.2	7.6
288073	New	60	55	80	-	-	-	51	52	75	-	-	-
288074	New	60	55	80	-	-	-	55	56	81	-	-	-
288076	New	60	55	80	-	-	-	53	54	78	-	-	-
288078	New	60	55	80	-	-	-	53	54	78	-	-	-



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax
288082	New	60	55	80	-	-	-	52	53	77	-	-	-
288083	New	60	55	80	-	-	-	51	52	76	-	-	-
288086	New	60	55	80	-	-	-	51	52	76	-	-	-
288105	New	60	55	80	-	-	-	57	58	82	-	-	-
288106	New	60	55	80	-	-	-	52	53	76	-	-	-
288107	Upgrade	65	60	85	0	0	0	43	44	69	43.4	44.4	68.7
288112	Upgrade	65	60	85	40	40	63	44	45	69	4.7	5.3	6.0
288120	New	60	55	80	-	-	-	52	53	77	-	-	-
288124	New	60	55	80	-	-	-	52	53	77	-	-	-
288125	New	60	55	80	-	-	-	52	53	77	-	-	-
288132	New	60	55	80	-	-	-	49	50	73	-	-	-
288138	Upgrade	65	60	85	41	41	64	46	47	70	4.7	5.4	6.3
288143	New	60	55	80	-	-	-	51	52	76	-	-	-
288144	New	60	55	80	-	-	-	53	54	78	-	-	-
288146	New	60	55	80	-	-	-	49	50	74	-	-	-
288150	New	60	55	80	-	-	-	52	53	77	-	-	-
288152	New	60	55	80	-	-	-	50	51	75	-	-	-
288153	New	60	55	80	-	-	-	53	54	78	-	-	-
288156	Upgrade	65	60	85	39	39	62	44	45	68	5.1	5.7	6.5
288164	New	60	55	80	-	-	-	53	54	78	-	-	-
288172	New	60	55	80	-	-	-	48	50	73	-	-	-
288173	New	60	55	80	-	-	-	53	54	77	-	-	-
288175	New	60	55	80	-	-	-	50	51	75	-	-	-
288181	New	60	55	80	-	-	-	56	57	81	-	-	-
288189	Upgrade	65	60	85	39	40	62	44	45	68	4.7	5.3	6.2
288192	New	60	55	80	-	-	-	51	52	76	-	-	-
288193	New	60	55	80	-	-	-	48	49	72	-	-	-
288198	Upgrade	65	60	85	39	40	62	44	45	69	4.9	5.5	6.2
288199	New	60	55	80	-	-	-	51	52	76	-	-	-
288204	Upgrade	65	60	85	49	49	71	62	63	87	13.0	13.8	16.3
288207	New	60	55	80	-	-	-	48	49	72	-	-	-
288210	New	60	55	80	-	-	-	52	53	77	-	-	-
288211	New	60	55	80	-	-	-	50	51	75	-	-	-
288216	New	60	55	80	-	-	-	48	49	73	-	-	-
288222	New	60	55	80	-	-	-	48	49	73	-	-	-
288224	Upgrade	65	60	85	45	46	70	50	51	75	4.9	5.6	5.3
288227	New	60	55	80	-	-	-	51	52	76	-	-	-
288229	Upgrade	65	60	85	41	41	65	46	47	71	5.0	5.7	5.7
288230	New	60	55	80	-	-	-	48	49	73	-	-	-
288231	New	60	55	80	-	-	-	51	52	76	-	-	-
288247	New	60	55	80	-	-	-	55	56	80	-	-	-
288249	New	60	55	80	-	-	-	51	52	76	-	-	-
288251	New	60	55	80	-	-	-	51	52	76	-	-	-
288253	New	60	55	80	-	-	-	47	48	72	-	-	-
288254	New	60	55	80	-	-	-	51	51	76	-	-	-
288258	New	60	55	80	-	-	-	51	52	76	-	-	-
288264	New	60	55	80	-	-	-	49	50	74	-	-	-
288265	New	60	55	80	-	-	-	52	53	77	-	-	-
288268	New	60	55	80	-	-	-	50	51	74	-	-	-
288271	Upgrade	65	60	85	39	39	60	52	53	77	13.0	13.7	16.4
288275	New	60	55	80	-	-	-	51	52	75	-	-	-

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA				Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	
288281	Upgrade	65	60	85	43	43	67	48	49	73	5.1	5.8	6.1	
288296	New	60	55	80	-	-	-	51	52	76	-	-	-	
288297	Upgrade	65	60	85	46	46	70	51	52	76	5.2	5.9	6.0	
288300	Upgrade	65	60	85	43	44	67	48	49	73	4.9	5.5	6.5	
288305	Upgrade	65	60	85	42	42	65	47	48	71	5.2	5.9	6.7	
288312	New	60	55	80	-	-	-	51	52	76	-	-	-	
288327	New	60	55	80	-	-	-	51	52	76	-	-	-	
288329	New	60	55	80	-	-	-	50	51	74	-	-	-	
288348	New	60	55	80	-	-	-	50	51	75	-	-	-	
288349	New	60	55	80	-	-	-	51	52	76	-	-	-	
288362	New	60	55	80	-	-	-	50	51	74	-	-	-	
288364	New	60	55	80	-	-	-	50	51	74	-	-	-	
288369	Upgrade	65	60	85	38	39	61	51	52	76	13.1	13.8	15.7	
288372	New	60	55	80	-	-	-	56	57	81	-	-	-	
288379	Upgrade	65	60	85	50	50	73	54	55	79	4.7	5.5	5.6	
288384	New	60	55	80	-	-	-	50	51	74	-	-	-	
288389	Upgrade	65	60	85	46	47	71	51	52	76	4.9	5.6	5.3	
288390	New	60	55	80	-	-	-	50	52	75	-	-	-	
288392	New	60	55	80	-	-	-	51	52	75	-	-	-	
288394	New	60	55	80	-	-	-	52	53	76	-	-	-	
288405	New	60	55	80	-	-	-	50	51	74	-	-	-	
288408	New	60	55	80	-	-	-	51	52	75	-	-	-	
288414	New	60	55	80	-	-	-	52	53	77	-	-	-	
288431	New	60	55	80	-	-	-	57	58	82	-	-	-	
288434	Upgrade	65	60	85	40	41	63	45	46	69	5.1	5.9	6.4	
288439	New	60	55	80	-	-	-	51	53	76	-	-	-	
288442	Upgrade	65	60	85	38	38	60	50	51	75	12.6	13.3	15.5	
288443	New	60	55	80	-	-	-	52	53	76	-	-	-	
288450	New	60	55	80	-	-	-	52	53	76	-	-	-	
288467	Upgrade	65	60	85	43	43	67	48	49	72	5.0	5.7	5.4	
288473	New	60	55	80	-	-	-	51	52	76	-	-	-	
288475	Upgrade	65	60	85	46	46	70	50	51	75	4.8	5.4	5.5	
288478	New	60	55	80	-	-	-	53	54	78	-	-	-	
288489	Upgrade	65	60	85	46	46	71	51	52	76	4.8	5.4	5.3	
288490	New	60	55	80	-	-	-	50	51	75	-	-	-	
288497	Upgrade	65	60	85	47	47	71	52	53	77	5.0	5.7	5.7	
288513	Upgrade	65	60	85	46	46	69	51	52	75	5.0	5.7	6.0	
288518	New	60	55	80	-	-	-	52	53	77	-	-	-	
288523	New	60	55	80	-	-	-	52	53	77	-	-	-	
288539	Upgrade	65	60	85	43	43	67	48	49	73	5.2	6.0	6.1	
288543	New	60	55	80	-	-	-	52	53	77	-	-	-	
288551	Upgrade	65	60	85	45	45	69	50	51	74	4.9	5.6	5.6	
288601	Upgrade	65	60	85	38	38	60	48	49	74	10.7	11.4	13.2	
288645	Upgrade	65	60	85	45	46	69	50	51	75	5.1	5.7	6.1	
288648	Upgrade	65	60	85	36	36	60	49	50	74	13.1	13.8	14.1	
288665	Upgrade	65	60	85	47	47	71	51	52	76	4.9	5.6	5.7	
288784	Upgrade	65	60	85	46	46	70	51	52	76	5.1	5.8	5.7	
288871	Upgrade	65	60	85	44	45	68	50	51	74	5.2	5.9	5.7	
288895	Upgrade	65	60	85	46	46	69	51	52	75	4.8	5.5	6.4	
288905	Upgrade	65	60	85	44	44	68	49	50	74	5.1	5.7	5.7	
288910	Upgrade	65	60	85	45	45	70	50	51	75	4.9	5.7	4.9	



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax
288917	Upgrade	65	60	85	45	45	69	50	51	75	5.2	5.9	6.3
289007	Upgrade	65	60	85	47	47	71	52	53	77	5.1	5.8	6.0
289030	Upgrade	65	60	85	47	47	71	52	53	77	5.3	6.0	6.2
289054	Upgrade	65	60	85	47	47	71	52	53	77	5.4	6.0	6.3
289086	Upgrade	65	60	85	46	46	70	51	52	76	5.3	6.0	6.0
289558	Upgrade	65	60	85	42	42	66	47	48	72	4.8	5.5	5.7
289656	Upgrade	65	60	85	32	32	55	39	40	62	6.7	7.7	6.8
289689	Upgrade	65	60	85	35	36	60	42	43	67	6.8	7.5	7.3
289755	Upgrade	65	60	85	36	36	60	43	44	68	7.4	8.0	7.7
289759	Upgrade	65	60	85	43	43	64	48	49	70	5.3	5.9	6.2
289802	Upgrade	65	60	85	33	32	56	39	40	62	6.8	7.9	6.3
289822	Upgrade	65	60	85	46	46	69	51	52	75	5.2	5.8	5.5
289879	Upgrade	65	60	85	48	49	70	53	54	77	5.0	5.6	6.7
289917	Upgrade	65	60	85	42	42	65	50	51	74	8.8	9.5	9.6
289940	Upgrade	65	60	85	40	40	63	50	51	74	9.9	10.5	11.3
289949	Upgrade	65	60	85	45	46	68	52	53	77	7.3	7.9	9.0
289963	Upgrade	65	60	85	43	43	66	51	52	75	8.5	9.2	9.6
289974	Upgrade	65	60	85	41	41	65	48	49	73	7.8	8.5	7.8
289991	Upgrade	65	60	85	49	49	73	54	55	78	5.1	5.9	5.7
290000	Upgrade	65	60	85	48	49	70	53	54	77	5.0	5.8	6.9
290058	Upgrade	65	60	85	47	47	70	52	53	76	5.3	6.0	5.3
290066	Upgrade	65	60	85	49	49	70	54	55	78	5.2	6.0	7.4
290067	Upgrade	65	60	85	43	43	66	51	52	75	7.8	8.5	8.8
290100	Upgrade	65	60	85	38	39	63	46	48	70	8.2	9.0	7.4
290103	Upgrade	65	60	85	43	43	65	50	51	75	7.3	8.0	9.5
290179	Upgrade	65	60	85	47	47	70	52	53	76	5.3	6.0	5.9
290210	Upgrade	65	60	85	47	47	71	52	53	76	5.2	6.0	5.4
290247	Upgrade	65	60	85	47	47	71	52	53	76	5.2	5.9	5.3
290315	Upgrade	65	60	85	48	48	72	53	54	77	5.0	5.8	5.6
290334	Upgrade	65	60	85	45	45	67	51	52	74	5.8	6.6	6.8
290337	Upgrade	65	60	85	44	44	66	50	51	73	5.7	6.4	6.7
290345	Upgrade	65	60	85	36	37	61	48	49	72	11.9	12.6	11.7
290375	Upgrade	65	60	85	45	45	69	51	52	75	5.8	6.6	5.9
290380	Upgrade	65	60	85	48	48	71	53	54	77	5.0	5.8	5.6
290389	Upgrade	65	60	85	0	0	0	26	27	52	26.0	27.1	51.5
290390	Upgrade	65	60	85	0	0	0	20	21	45	19.9	20.9	44.9
290409	Upgrade	65	60	85	41	41	64	50	51	74	9.1	9.8	10.2
290414	Upgrade	65	60	85	48	48	71	53	54	76	5.0	5.8	5.4
290425	Upgrade	65	60	85	34	34	59	46	47	70	12.8	13.5	12.0
290426	Upgrade	65	60	85	0	0	0	44	45	70	44.3	45.4	69.8
290429	Upgrade	65	60	85	45	45	68	51	52	76	6.7	7.4	8.1
290440	Upgrade	65	60	85	48	48	72	53	54	77	5.0	5.7	5.4
290443	Upgrade	65	60	85	47	48	71	53	54	76	5.2	6.0	5.5
290452	Upgrade	65	60	85	44	44	68	51	52	75	7.0	7.8	7.0
290460	Upgrade	65	60	85	0	0	0	34	35	60	34.0	35.1	59.6
290478	Upgrade	65	60	85	0	0	0	42	43	67	42.0	43.0	67.4
290483	Upgrade	65	60	85	0	0	0	47	48	72	46.8	47.9	71.6
290498	Upgrade	65	60	85	45	45	69	51	52	75	6.0	6.8	6.9
290500	Upgrade	65	60	85	49	49	73	54	55	79	5.1	5.9	5.5
290510	Upgrade	65	60	85	47	48	70	53	54	76	5.4	6.0	5.8
290513	Upgrade	65	60	85	0	0	0	41	42	66	40.6	41.7	66.0

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmix	LAeq,15hr	LAeq,9hr	LAmix	LAeq,15hr	LAeq,9hr	LAmix
290535	Upgrade	65	60	85	47	47	70	53	54	76	5.3	6.1	5.8
290574	Upgrade	65	60	85	48	48	72	54	55	78	5.4	6.1	5.6
290635	Upgrade	65	60	85	44	44	67	50	51	74	5.9	6.8	6.4
290677	Upgrade	65	60	85	0	0	0	47	48	72	46.6	47.6	71.5
290714	Upgrade	65	60	85	42	42	65	50	51	74	7.9	8.6	9.8
290717	Upgrade	65	60	85	44	44	68	50	51	74	6.0	6.8	6.2
290718	Upgrade	65	60	85	0	0	0	48	49	73	47.8	48.8	72.8
290727	Upgrade	65	60	85	44	44	67	51	52	75	7.1	7.9	8.1
290734	Upgrade	65	60	85	41	41	63	48	48	71	7.0	7.9	8.2
290736	Upgrade	65	60	85	44	44	66	50	51	74	6.3	7.2	7.4
290745	Upgrade	65	60	85	0	0	0	46	47	71	46.4	47.4	71.3
290747	Upgrade	65	60	85	43	44	67	50	51	75	7.1	7.7	8.0
290764	Upgrade	65	60	85	41	40	64	47	48	70	6.2	7.1	5.9
290779	Upgrade	65	60	85	36	36	57	42	43	66	6.5	7.6	9.5
290816	Upgrade	65	60	85	0	0	0	46	47	71	45.5	46.5	70.7
290819	Upgrade	65	60	85	43	44	67	50	51	73	6.1	6.9	6.2
290824	Upgrade	65	60	85	44	44	67	51	52	74	6.5	7.5	7.5
290854	Upgrade	65	60	85	43	43	66	49	50	73	6.5	7.4	7.0
290856	Upgrade	65	60	85	42	43	65	49	50	73	7.0	7.7	8.1
290872	Upgrade	65	60	85	42	42	66	50	51	73	7.5	8.1	7.7
290878	Upgrade	65	60	85	41	41	66	46	47	71	5.4	6.2	5.7
290933	Upgrade	65	60	85	41	41	64	49	50	72	7.6	8.3	8.6
291074	Upgrade	65	60	85	42	43	66	49	50	73	6.5	7.2	7.1
291115	Upgrade	65	60	85	41	42	65	48	49	72	6.9	7.7	6.6
291118	Upgrade	65	60	85	46	46	69	52	53	76	6.5	7.2	6.9
291126	Upgrade	65	60	85	0	0	0	45	46	70	44.7	45.6	70.1
291130	Upgrade	65	60	85	51	51	75	56	57	81	5.1	5.8	5.9
291138	Upgrade	65	60	85	49	49	73	54	55	78	4.9	5.6	4.9
291141	Upgrade	65	60	85	40	41	64	48	49	71	7.4	8.1	7.0
291147	Upgrade	65	60	85	47	48	71	53	54	77	5.4	6.2	6.6
291187	Upgrade	65	60	85	0	0	0	45	46	70	45.0	46.0	70.4
291199	Upgrade	65	60	85	37	37	62	44	45	68	7.1	7.7	5.6
291212	Upgrade	65	60	85	48	49	72	53	54	78	5.0	5.8	6.3
291234	Upgrade	65	60	85	36	36	61	45	46	71	9.2	9.9	9.8
291237	Upgrade	65	60	85	38	38	63	44	45	69	6.4	7.1	5.7
291240	Upgrade	65	60	85	51	51	75	55	56	80	4.8	5.6	4.5
291282	Upgrade	65	60	85	42	42	65	48	49	73	6.3	6.9	7.8
291284	Upgrade	65	60	85	38	39	62	45	46	69	6.6	7.4	7.3
291321	Upgrade	65	60	85	42	42	65	49	50	72	6.7	7.5	7.6
291328	Upgrade	65	60	85	43	43	66	49	51	73	6.4	7.2	7.5
291330	Upgrade	65	60	85	50	50	73	55	56	79	5.4	6.2	5.6
291347	Upgrade	65	60	85	37	38	61	44	45	69	6.1	6.8	7.6
291351	Upgrade	65	60	85	29	30	53	37	38	62	8.0	8.7	9.5
291357	Upgrade	65	60	85	31	31	56	38	39	63	7.5	8.3	6.8
291366	Upgrade	65	60	85	34	35	58	42	43	66	7.3	7.9	8.1
291368	Upgrade	65	60	85	32	32	55	40	41	64	7.9	8.5	8.7
291381	Upgrade	65	60	85	38	38	62	47	48	72	8.8	9.5	10.4
291385	Upgrade	65	60	85	36	37	61	45	46	68	8.4	9.1	6.4
291392	Upgrade	65	60	85	39	40	64	46	47	70	6.5	7.2	5.8
291399	Upgrade	65	60	85	37	38	62	44	45	68	6.4	7.2	6.8
291403	Upgrade	65	60	85	37	37	60	44	45	67	6.8	7.5	7.5



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax
291407	Upgrade	65	60	85	37	37	61	44	46	69	7.6	8.4	8.2
291415	Upgrade	65	60	85	33	33	57	40	41	65	7.4	8.1	7.8
291429	Upgrade	65	60	85	41	41	62	47	48	69	5.9	6.9	7.1
291434	Upgrade	65	60	85	44	44	68	49	50	75	5.3	6.0	6.8
291441	Upgrade	65	60	85	32	32	56	39	40	63	6.8	7.5	6.8
291444	Upgrade	65	60	85	50	50	75	56	57	80	5.4	6.2	4.9
291452	Upgrade	65	60	85	39	38	60	44	45	67	5.5	6.9	6.7
291453	Upgrade	65	60	85	47	47	70	52	53	76	5.3	6.0	6.5
291464	Upgrade	65	60	85	42	42	65	49	50	73	7.1	7.7	7.9
291465	Upgrade	65	60	85	41	41	65	48	49	72	7.1	7.8	7.6
291469	Upgrade	65	60	85	39	40	63	47	48	72	7.8	8.5	8.8
291476	Upgrade	65	60	85	42	41	62	47	48	70	5.9	7.1	7.6
291488	Upgrade	65	60	85	42	42	66	48	49	73	5.9	6.5	6.8
291498	Upgrade	65	60	85	41	41	64	48	49	72	7.4	8.1	8.5
291502	Upgrade	65	60	85	40	40	62	46	47	68	5.6	6.8	6.0
291505	Upgrade	65	60	85	41	42	65	48	49	73	6.5	7.2	7.1
291520	Upgrade	65	60	85	41	42	64	48	49	72	6.3	7.0	7.6
291552	Upgrade	65	60	85	50	50	74	56	57	80	5.4	6.2	5.7
291557	Upgrade	65	60	85	38	38	60	45	46	69	7.4	8.1	8.3
291565	Upgrade	65	60	85	50	50	74	56	57	80	5.5	6.3	5.7
291566	Upgrade	65	60	85	41	41	62	47	48	69	5.9	7.0	6.9
291567	Upgrade	65	60	85	37	38	61	44	45	68	6.6	7.3	7.7
291575	Upgrade	65	60	85	40	41	64	47	48	71	6.6	7.3	7.2
291581	Upgrade	65	60	85	51	52	76	57	57	81	5.2	5.9	5.2
291582	Upgrade	65	60	85	43	43	64	49	50	71	5.7	6.8	7.5
291623	Upgrade	65	60	85	45	45	65	50	51	72	5.5	6.6	7.1
291849	Upgrade	65	60	85	47	47	69	52	53	76	5.2	5.8	6.9
291862	Upgrade	65	60	85	42	41	62	47	48	70	5.7	6.9	7.7
291872	Upgrade	65	60	85	39	39	62	45	45	67	5.1	6.4	5.4
291883	Upgrade	65	60	85	40	40	63	46	47	69	5.3	6.3	6.1
291951	Upgrade	65	60	85	39	39	62	44	45	68	5.4	6.6	5.9
291963	Upgrade	65	60	85	44	44	66	49	51	73	5.5	6.3	7.1
291974	Upgrade	65	60	85	42	42	63	48	49	71	5.5	6.7	7.3
292000	Upgrade	65	60	85	41	41	62	47	48	70	5.9	7.2	8.0
292048	Upgrade	65	60	85	43	43	66	48	49	73	5.2	5.8	6.9
292051	Upgrade	65	60	85	62	62	87	67	68	92	5.6	6.3	4.8
292075	Upgrade	65	60	85	45	44	66	50	51	73	5.4	6.5	6.9
292150	Upgrade	65	60	85	43	43	67	49	50	74	6.1	6.8	6.5
292274	Upgrade	65	60	85	50	49	72	56	57	78	6.0	7.2	6.4
292323	Upgrade	65	60	85	47	47	70	52	53	76	5.1	5.8	6.5
292360	Upgrade	65	60	85	51	51	75	57	58	79	5.6	7.0	4.2
292401	Upgrade	65	60	85	50	49	74	55	55	76	4.8	6.5	1.8
292427	Upgrade	65	60	85	48	47	71	53	54	74	5.0	6.6	3.1
292494	Upgrade	65	60	85	51	50	74	57	58	79	6.4	7.7	5.9
292640	Upgrade	65	60	85	61	61	88	69	70	94	8.4	9.1	5.2
292677	Upgrade	65	60	85	52	51	75	57	58	79	5.3	6.9	3.4
292705	Upgrade	65	60	85	48	47	73	53	53	74	4.3	5.8	1.4
292716	Upgrade	65	60	85	48	46	71	52	52	71	4.1	5.9	0.1
292721	Upgrade	65	60	85	49	48	72	53	54	74	4.6	6.3	1.8
292732	Upgrade	65	60	85	50	48	75	54	55	75	4.5	6.3	0.1
292736	Upgrade	65	60	85	47	46	72	53	53	72	5.3	6.9	0.1

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA				Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	
292745	Upgrade	65	60	85	51	50	77	56	57	77	5.7	7.2	-0.2	
292749	Upgrade	65	60	85	48	47	71	52	53	72	4.5	6.3	0.9	
292761	Upgrade	65	60	85	53	52	78	58	58	79	4.8	6.4	1.9	
292764	Upgrade	65	60	85	50	49	75	53	54	75	3.4	5.3	-0.2	
292798	Upgrade	65	60	85	51	50	75	56	56	77	4.9	6.6	1.5	
292802	Upgrade	65	60	85	49	48	75	55	55	74	5.2	6.7	-0.7	
292815	Upgrade	65	60	85	53	51	79	56	56	78	2.8	4.8	-1.3	
292831	Upgrade	65	60	85	49	48	73	53	53	73	3.7	5.5	-0.1	
292840	Upgrade	65	60	85	48	47	74	53	54	75	5.4	7.0	1.1	
292849	Upgrade	65	60	85	49	48	73	53	54	75	3.4	5.3	2.2	
292852	Upgrade	65	60	85	51	49	77	55	55	77	4.3	6.1	-0.4	
292861	Upgrade	65	60	85	53	52	76	60	60	81	6.9	8.0	5.1	
292873	Upgrade	65	60	85	47	45	72	53	53	75	6.1	7.5	2.6	
292882	Upgrade	65	60	85	48	47	70	52	53	74	4.4	6.1	3.5	
292892	Upgrade	65	60	85	49	48	75	53	54	73	4.2	6.1	-1.3	
292905	Upgrade	65	60	85	52	51	77	57	58	79	5.4	7.0	1.7	
292911	Upgrade	65	60	85	49	48	75	54	54	76	4.7	6.3	0.6	
292912	Upgrade	65	60	85	49	48	73	53	54	75	4.3	6.1	1.7	
292921	Upgrade	65	60	85	54	52	80	56	57	78	2.5	4.4	-2.3	
292928	Upgrade	65	60	85	47	46	73	54	54	76	6.5	8.1	2.7	
292929	Upgrade	65	60	85	47	47	69	52	53	75	5.1	5.8	6.3	
292937	Upgrade	65	60	85	52	50	78	55	55	75	3.1	5.0	-3.2	
292939	Upgrade	65	60	85	50	48	75	54	54	74	4.1	5.9	-1.3	
292945	Upgrade	65	60	85	49	47	74	53	54	73	4.6	6.4	-1.0	
292951	Upgrade	65	60	85	49	48	73	54	54	74	4.3	6.0	1.4	
292954	Upgrade	65	60	85	49	48	76	55	56	78	6.0	7.6	2.4	
292971	Upgrade	65	60	85	52	51	78	57	58	78	5.1	6.8	0.2	
292977	Upgrade	65	60	85	51	49	76	55	56	77	4.6	6.4	1.4	
292978	Upgrade	65	60	85	48	47	74	55	55	76	6.8	8.5	1.9	
292990	Upgrade	65	60	85	52	51	79	57	57	80	4.8	6.6	1.3	
293012	Upgrade	65	60	85	52	50	78	56	56	76	4.1	6.0	-2.2	
293013	Upgrade	65	60	85	49	48	75	54	54	76	4.7	6.6	1.6	
293015	Upgrade	65	60	85	54	53	79	61	61	84	6.7	8.3	4.1	
293023	Upgrade	65	60	85	56	54	82	62	62	85	6.4	8.0	3.0	
293036	Upgrade	65	60	85	55	54	81	60	61	81	5.0	6.8	-0.2	
293052	Upgrade	65	60	85	50	48	75	56	56	78	5.9	7.7	2.9	
293060	Upgrade	65	60	85	56	55	82	61	61	82	4.2	6.1	0.4	
293070	Upgrade	65	60	85	44	44	66	49	50	73	5.3	5.9	7.0	
293078	Upgrade	65	60	85	57	57	80	65	66	87	7.9	8.8	6.9	
293098	Upgrade	65	60	85	51	49	76	56	57	77	5.5	7.3	0.4	
293128	Upgrade	65	60	85	52	50	77	55	55	76	3.3	5.2	-0.9	
293130	Upgrade	65	60	85	53	52	80	59	59	80	5.5	7.2	0.1	
293134	Upgrade	65	60	85	50	49	75	56	56	76	5.3	6.9	0.9	
293137	Upgrade	65	60	85	50	49	75	54	54	75	4.0	5.8	-0.4	
293160	Upgrade	65	60	85	47	46	73	50	51	72	2.9	4.7	-0.1	
293167	Upgrade	65	60	85	44	44	66	49	50	73	5.2	5.8	6.9	
293176	Upgrade	65	60	85	51	49	77	55	56	77	4.6	6.5	0.2	
293186	Upgrade	65	60	85	57	55	84	60	60	82	3.3	5.3	-1.6	
293187	Upgrade	65	60	85	49	48	73	54	54	74	4.3	6.0	0.7	
293213	Upgrade	65	60	85	52	51	78	58	58	80	6.0	7.6	2.2	
293221	Upgrade	65	60	85	51	50	76	56	56	77	4.8	6.6	0.7	



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmix	LAeq,15hr	LAeq,9hr	LAmix	LAeq,15hr	LAeq,9hr	LAmix
293224	Upgrade	65	60	85	49	47	75	54	54	75	4.8	6.6	-0.2
293252	Upgrade	65	60	85	55	53	82	58	59	81	3.4	5.4	-0.9
293255	Upgrade	65	60	85	49	48	73	53	53	74	3.7	5.6	0.2
293263	Upgrade	65	60	85	52	50	76	56	56	76	3.9	5.8	0.3
293271	Upgrade	65	60	85	51	50	77	58	58	78	6.4	8.0	1.2
293276	Upgrade	65	60	85	51	49	76	55	55	76	3.8	5.6	-0.3
293278	Upgrade	65	60	85	50	48	73	54	54	74	4.0	5.8	1.0
293292	Upgrade	65	60	85	50	49	73	54	54	74	3.8	5.7	1.2
293299	Upgrade	65	60	85	57	55	84	58	59	79	1.3	3.5	-4.9
293311	Upgrade	65	60	85	50	49	75	56	56	76	5.6	7.3	1.3
293331	Upgrade	65	60	85	52	51	79	55	56	78	3.0	5.0	-1.6
293340	Upgrade	65	60	85	51	49	75	56	56	76	5.0	6.8	0.3
293376	Upgrade	65	60	85	47	47	70	52	53	75	5.2	6.0	5.0
293377	Upgrade	65	60	85	55	54	82	58	58	79	2.4	4.4	-3.0
293384	Upgrade	65	60	85	51	49	77	54	55	75	3.3	5.3	-2.4
293403	Upgrade	65	60	85	54	52	80	57	57	79	3.1	5.1	-0.9
293408	Upgrade	65	60	85	46	46	70	51	52	76	4.8	5.5	5.9
293410	Upgrade	65	60	85	54	53	81	55	55	77	0.2	2.4	-4.2
293422	Upgrade	65	60	85	63	62	88	71	71	95	8.6	9.7	6.4
293439	Upgrade	65	60	85	57	55	83	59	60	80	2.8	4.8	-3.4
293450	Upgrade	65	60	85	50	49	75	57	57	78	6.4	7.9	3.5
293460	Upgrade	65	60	85	55	54	80	60	60	81	5.0	6.8	1.3
293465	Upgrade	65	60	85	44	44	67	49	50	73	5.3	5.9	6.2
293474	Upgrade	65	60	85	51	49	77	55	55	77	4.4	6.1	-0.5
293482	Upgrade	65	60	85	64	63	90	72	73	96	8.4	9.7	6.4
293492	Upgrade	65	60	85	53	52	80	56	57	78	3.2	5.2	-2.1
293496	Upgrade	65	60	85	56	54	83	57	58	78	1.2	3.3	-4.9
293501	Upgrade	65	60	85	59	58	86	64	64	86	4.3	6.3	-0.9
293519	Upgrade	65	60	85	65	64	91	73	73	96	7.9	9.3	5.5
293528	Upgrade	65	60	85	52	50	79	56	56	76	3.8	5.7	-2.7
293529	Upgrade	65	60	85	50	49	75	54	54	74	3.6	5.5	-0.5
293538	Upgrade	65	60	85	55	53	79	58	59	80	3.6	5.6	0.3
293542	Upgrade	65	60	85	65	64	92	72	72	95	7.0	8.5	3.9
293546	Upgrade	65	60	85	50	49	74	53	54	75	3.3	5.1	0.3
293555	Upgrade	65	60	85	55	53	79	58	59	80	3.7	5.7	1.0
293562	Upgrade	65	60	85	60	58	88	61	62	84	1.5	3.6	-3.4
293573	Upgrade	65	60	85	50	49	74	54	54	75	4.1	5.9	0.6
293582	Upgrade	65	60	85	66	65	93	72	72	95	5.4	7.2	1.4
293589	Upgrade	65	60	85	52	51	78	57	57	78	4.4	6.3	-0.6
293597	Upgrade	65	60	85	53	52	78	57	57	77	3.4	5.4	-0.4
293602	Upgrade	65	60	85	50	49	72	54	54	76	4.1	5.8	4.3
293617	Upgrade	65	60	85	44	44	66	49	50	73	5.1	5.7	6.8
293620	Upgrade	65	60	85	61	60	87	72	72	96	11.0	11.8	8.4
293627	Upgrade	65	60	85	54	52	80	58	58	79	4.1	6.0	-0.6
293631	Upgrade	65	60	85	53	52	78	57	57	79	3.6	5.5	0.2
293634	Upgrade	65	60	85	50	49	76	54	54	73	3.4	5.3	-2.3
293635	Upgrade	65	60	85	61	59	88	64	64	87	2.9	4.8	-1.1
293640	Upgrade	65	60	85	70	68	97	69	69	90	-0.9	1.4	-7.3
293661	Upgrade	65	60	85	57	55	83	59	60	81	2.6	4.6	-1.6
293666	Upgrade	65	60	85	53	52	79	58	58	79	4.4	6.3	0.0
293682	Upgrade	65	60	85	43	43	65	48	49	72	5.0	5.7	6.9

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA				Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	
293684	Upgrade	65	60	85	71	69	99	71	71	94	0.2	2.4	-4.8	
293686	Upgrade	65	60	85	51	50	76	54	55	75	3.5	5.4	-0.9	
293687	Upgrade	65	60	85	53	52	79	56	56	77	2.9	4.9	-1.8	
293692	Upgrade	65	60	85	51	49	75	55	55	76	4.0	5.9	0.4	
293699	Upgrade	65	60	85	45	46	69	51	52	74	5.3	6.0	5.7	
293702	Upgrade	65	60	85	51	50	77	58	59	81	7.5	9.1	3.7	
293713	Upgrade	65	60	85	56	55	82	59	60	81	3.2	5.2	-1.1	
293720	Upgrade	65	60	85	48	47	74	52	53	74	4.0	5.8	-0.7	
293721	Upgrade	65	60	85	53	51	78	55	55	76	1.9	3.9	-1.6	
293723	Upgrade	65	60	85	46	46	68	51	52	74	5.2	6.0	6.2	
293724	Upgrade	65	60	85	70	68	98	70	71	91	0.0	2.2	-7.0	
293740	Upgrade	65	60	85	50	49	74	54	55	75	4.1	5.9	1.0	
293753	Upgrade	65	60	85	70	69	98	71	72	93	1.0	3.1	-5.0	
293769	Upgrade	65	60	85	50	49	73	54	55	76	3.9	5.6	3.1	
293785	Upgrade	65	60	85	72	70	100	72	72	95	0.3	2.4	-4.9	
293786	Upgrade	65	60	85	56	54	81	60	60	81	4.2	6.1	-0.3	
293804	Upgrade	65	60	85	54	53	81	57	58	77	2.6	4.7	-3.7	
293805	Upgrade	65	60	85	52	50	77	54	55	75	2.6	4.6	-2.9	
293808	Upgrade	65	60	85	63	62	89	70	71	94	7.3	8.8	5.2	
293810	Upgrade	65	60	85	50	49	73	54	54	75	4.1	5.8	2.5	
293829	Upgrade	65	60	85	59	58	87	60	61	82	1.1	3.3	-4.3	
293831	Upgrade	65	60	85	54	53	79	59	59	80	4.6	6.4	1.4	
293834	Upgrade	65	60	85	68	67	95	72	72	95	3.6	5.5	0.6	
293845	Upgrade	65	60	85	51	49	77	54	54	75	3.1	5.0	-1.8	
293849	Upgrade	65	60	85	53	51	78	55	56	76	2.4	4.5	-2.2	
293861	Upgrade	65	60	85	59	57	84	59	60	82	0.3	2.6	-2.1	
293880	Upgrade	65	60	85	53	51	78	55	56	77	2.7	4.6	-0.5	
293882	Upgrade	65	60	85	55	53	79	58	58	79	3.1	5.1	0.1	
293889	Upgrade	65	60	85	52	50	77	57	57	78	5.0	6.8	0.4	
293891	Upgrade	65	60	85	52	51	78	54	55	76	1.8	3.7	-1.7	
293900	Upgrade	65	60	85	68	66	95	74	74	97	6.3	8.1	2.6	
293902	Upgrade	65	60	85	46	45	67	50	51	73	4.5	5.7	6.0	
293916	Upgrade	65	60	85	51	50	74	54	54	76	3.1	4.7	2.3	
293917	Upgrade	65	60	85	58	56	85	57	58	79	-0.3	2.0	-5.2	
293919	Upgrade	65	60	85	55	53	82	56	57	78	1.4	3.4	-3.9	
293921	Upgrade	65	60	85	57	56	83	59	59	80	1.5	3.6	-3.3	
293928	Upgrade	65	60	85	52	51	77	55	56	76	3.0	4.8	-0.6	
293930	Upgrade	65	60	85	64	62	91	65	65	87	1.1	3.2	-3.9	
293940	Upgrade	65	60	85	56	54	82	56	57	78	0.6	2.8	-4.7	
293949	Upgrade	65	60	85	72	70	100	72	73	94	0.2	2.5	-5.9	
293956	Upgrade	65	60	85	51	50	76	55	56	78	3.9	5.7	1.8	
293961	Upgrade	65	60	85	54	53	79	58	59	81	4.2	6.0	2.0	
293968	Upgrade	65	60	85	55	53	81	56	57	78	1.4	3.6	-3.3	
293986	Upgrade	65	60	85	51	50	74	55	56	78	4.7	6.2	4.0	
293987	Upgrade	65	60	85	56	55	83	61	61	83	4.2	6.1	-0.4	
293988	Upgrade	65	60	85	59	58	85	63	63	84	3.5	5.4	-0.3	
293995	Upgrade	65	60	85	55	53	81	57	57	78	2.1	4.2	-3.1	
294012	Upgrade	65	60	85	56	55	83	58	59	81	1.9	4.0	-2.1	
294014	Upgrade	65	60	85	53	52	78	56	57	79	3.3	5.2	0.6	
294030	Upgrade	65	60	85	45	45	68	51	52	74	5.4	6.1	5.6	
294040	Upgrade	65	60	85	67	66	94	74	75	98	7.0	8.6	4.4	



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax
294041	Upgrade	65	60	85	51	50	74	55	56	78	4.1	5.8	4.0
294060	Upgrade	65	60	85	52	51	76	56	57	79	3.9	5.6	2.5
294061	Upgrade	65	60	85	58	56	85	61	62	83	3.3	5.3	-1.9
294070	Upgrade	65	60	85	71	70	99	73	74	96	2.0	4.3	-3.3
294089	Upgrade	65	60	85	57	56	85	56	57	78	-1.5	0.8	-7.0
294095	Upgrade	65	60	85	58	56	85	59	60	81	1.1	3.3	-3.4
294105	Upgrade	65	60	85	71	69	98	68	69	91	-2.2	0.2	-7.7
294125	Upgrade	65	60	85	50	49	72	55	56	78	5.5	6.8	6.8
294127	Upgrade	65	60	85	64	62	91	64	65	86	0.3	2.5	-5.2
294131	Upgrade	65	60	85	61	60	89	61	61	84	-0.6	1.8	-5.0
294135	Upgrade	65	60	85	47	47	69	52	53	75	5.2	5.7	6.6
294147	Upgrade	65	60	85	51	50	73	55	56	78	4.3	6.0	4.4
294169	Upgrade	65	60	85	68	67	95	76	76	101	8.2	9.9	5.5
294171	Upgrade	65	60	85	55	54	81	58	59	81	3.5	5.4	-0.2
294187	Upgrade	65	60	85	72	70	99	68	69	91	-3.3	-0.8	-8.8
294205	Upgrade	65	60	85	62	61	90	64	65	86	2.1	4.2	-4.0
294209	Upgrade	65	60	85	54	53	79	59	59	81	4.8	6.4	1.8
294229	Upgrade	65	60	85	61	60	87	74	74	99	12.9	14.3	11.5
294233	Upgrade	65	60	85	45	45	67	50	51	73	5.3	6.1	6.3
294244	Upgrade	65	60	85	54	53	79	59	60	82	5.1	6.7	3.2
294251	Upgrade	65	60	85	59	58	85	69	69	93	9.5	11.1	8.3
294266	Upgrade	65	60	85	54	53	79	59	59	82	4.5	6.2	3.2
294269	Upgrade	65	60	85	59	58	85	64	64	87	5.0	6.8	1.8
294277	Upgrade	65	60	85	52	51	74	56	57	79	4.7	6.2	4.7
294287	Upgrade	65	60	85	55	53	80	58	59	81	3.2	5.1	0.9
294319	Upgrade	65	60	85	54	52	80	59	60	81	5.4	7.2	0.9
294322	Upgrade	65	60	85	52	51	76	57	58	79	4.9	6.6	2.9
294323	Upgrade	65	60	85	62	60	88	71	71	95	9.3	11.0	7.0
294331	Upgrade	65	60	85	61	60	88	63	63	86	1.4	3.6	-1.9
294340	Upgrade	65	60	85	50	49	73	55	55	78	4.8	6.4	4.8
294352	Upgrade	65	60	85	69	67	96	71	72	94	2.3	4.5	-2.7
294368	Upgrade	65	60	85	54	53	79	61	61	83	7.2	8.6	3.5
294377	Upgrade	65	60	85	58	57	84	63	63	86	4.8	6.7	2.0
294378	Upgrade	65	60	85	59	58	83	63	64	87	4.1	5.8	3.5
294381	Upgrade	65	60	85	60	58	87	67	67	91	7.4	9.2	4.2
294393	Upgrade	65	60	85	53	52	75	58	59	81	5.1	6.5	5.3
294407	Upgrade	65	60	85	71	69	98	71	72	93	0.2	2.5	-5.1
294408	Upgrade	65	60	85	46	46	68	51	52	74	5.6	6.3	6.5
294411	Upgrade	65	60	85	54	53	80	60	60	83	6.0	7.2	3.4
294431	Upgrade	65	60	85	55	53	81	60	60	82	5.3	7.1	1.0
294432	Upgrade	65	60	85	51	51	74	57	58	81	5.8	7.1	6.2
294433	Upgrade	65	60	85	57	55	84	64	65	88	7.8	9.3	4.5
294435	Upgrade	65	60	85	72	71	100	71	72	94	-1.2	1.3	-6.2
294448	Upgrade	65	60	85	44	44	66	49	50	72	5.5	6.2	6.4
294452	Upgrade	65	60	85	53	52	77	58	58	80	4.7	6.2	3.8
294464	Upgrade	65	60	85	51	50	73	55	56	78	4.8	6.4	5.1
294468	Upgrade	65	60	85	58	57	82	63	64	86	5.3	6.7	4.7
294472	Upgrade	65	60	85	52	51	74	56	57	79	4.6	6.1	5.4
294473	Upgrade	65	60	85	45	45	68	50	51	74	5.4	6.1	6.2
294483	Upgrade	65	60	85	54	52	80	58	58	80	3.5	5.5	0.8
294485	Upgrade	65	60	85	57	55	84	61	62	85	4.7	6.6	1.1

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA				Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	
294486	Upgrade	65	60	85	56	55	83	63	63	86	7.2	8.8	3.4	
294493	Upgrade	65	60	85	57	57	81	63	63	86	5.3	6.7	5.5	
294497	Upgrade	65	60	85	52	52	76	57	58	80	4.9	6.4	4.5	
294499	Upgrade	65	60	85	51	51	74	56	57	79	4.6	6.1	5.1	
294506	Upgrade	65	60	85	67	65	95	62	63	85	-4.8	-2.2	-9.3	
294521	Upgrade	65	60	85	56	55	82	63	64	87	7.0	8.7	4.5	
294525	Upgrade	65	60	85	58	56	85	60	60	82	2.4	4.4	-2.5	
294529	Upgrade	65	60	85	58	57	81	63	64	86	5.0	6.6	5.8	
294532	Upgrade	65	60	85	53	53	77	57	58	80	3.9	5.3	3.6	
294537	Upgrade	65	60	85	56	54	83	58	59	80	2.3	4.4	-3.0	
294562	Upgrade	65	60	85	57	57	81	62	63	86	4.9	6.4	5.3	
294580	Upgrade	65	60	85	64	62	91	62	62	84	-1.8	0.5	-7.8	
294583	Upgrade	65	60	85	55	53	81	60	61	83	5.8	7.7	1.9	
294585	Upgrade	65	60	85	58	56	85	59	59	81	1.2	3.4	-4.2	
294604	Upgrade	65	60	85	57	57	81	62	63	86	4.8	6.2	5.0	
294607	Upgrade	65	60	85	55	55	79	61	62	85	6.2	7.2	5.4	
294617	Upgrade	65	60	85	57	55	82	60	60	81	2.8	4.8	-1.1	
294622	Upgrade	65	60	85	64	62	92	62	63	85	-1.9	0.5	-6.8	
294623	Upgrade	65	60	85	53	52	80	60	61	81	6.8	8.3	1.2	
294629	Upgrade	65	60	85	54	52	80	60	60	82	6.0	7.7	1.7	
294645	Upgrade	65	60	85	46	46	69	51	52	75	5.1	6.0	6.0	
294648	Upgrade	65	60	85	54	53	79	59	60	83	5.5	6.8	3.7	
294656	Upgrade	65	60	85	45	46	69	51	52	75	5.7	6.4	5.6	
294662	Upgrade	65	60	85	52	51	75	55	56	77	3.7	5.2	2.4	
294669	Upgrade	65	60	85	55	53	81	59	59	81	4.4	6.2	-0.4	
294670	Upgrade	65	60	85	63	61	90	59	60	81	-3.6	-1.1	-9.5	
294673	Upgrade	65	60	85	51	50	73	55	56	77	4.0	5.4	3.7	
294676	Upgrade	65	60	85	54	53	81	60	60	82	5.5	7.3	1.4	
294690	Upgrade	65	60	85	56	55	80	60	61	83	4.0	5.9	3.1	
294712	Upgrade	65	60	85	63	61	91	60	60	82	-3.7	-1.2	-9.1	
294719	Upgrade	65	60	85	54	53	79	60	61	84	6.2	7.2	5.3	
294720	Upgrade	65	60	85	55	53	80	59	59	80	4.1	5.9	0.0	
294751	Upgrade	65	60	85	59	58	83	63	64	86	4.3	5.9	3.5	
294752	Upgrade	65	60	85	45	46	68	51	52	74	5.8	6.5	6.8	
294761	Upgrade	65	60	85	46	46	69	52	53	75	5.6	6.3	6.2	
294774	Upgrade	65	60	85	59	57	86	59	60	81	0.3	2.6	-5.3	
294779	Upgrade	65	60	85	54	52	78	58	59	80	4.3	6.2	1.5	
294807	Upgrade	65	60	85	52	51	76	56	56	77	3.8	5.5	0.1	
294815	Upgrade	65	60	85	59	57	86	58	58	80	-1.4	1.0	-6.2	
294816	Upgrade	65	60	85	53	52	78	58	58	78	4.5	6.3	-0.1	
294822	Upgrade	65	60	85	55	55	79	61	62	85	5.7	6.9	5.7	
294835	Upgrade	65	60	85	54	53	79	58	59	80	4.2	6.0	1.2	
294844	Upgrade	65	60	85	53	52	77	57	58	79	4.0	5.6	2.0	
294875	Upgrade	65	60	85	53	52	78	58	59	79	5.4	7.1	1.4	
294897	Upgrade	65	60	85	57	56	84	59	59	80	1.2	3.4	-3.6	
294903	Upgrade	65	60	85	44	45	67	50	51	73	5.7	6.4	6.6	
294930	Upgrade	65	60	85	57	57	84	63	64	88	5.7	6.9	4.1	
294959	Upgrade	65	60	85	44	44	66	49	50	73	5.5	6.3	6.5	
294976	Upgrade	65	60	85	45	45	67	51	51	74	6.0	6.7	7.2	
294996	Upgrade	65	60	85	44	44	66	49	50	73	5.5	6.3	6.5	
294997	Upgrade	65	60	85	57	55	84	58	59	80	1.3	3.4	-3.2	



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmix	LAeq,15hr	LAeq,9hr	LAmix	LAeq,15hr	LAeq,9hr	LAmix
295043	Upgrade	65	60	85	51	50	76	56	57	77	4.9	6.5	0.7
295049	Upgrade	65	60	85	44	45	66	50	51	73	5.8	6.6	6.8
295052	Upgrade	65	60	85	60	60	87	66	67	91	5.9	6.8	3.1
295068	Upgrade	65	60	85	46	46	67	52	53	75	6.2	7.0	7.5
295083	Upgrade	65	60	85	44	44	66	50	51	73	5.6	6.4	6.3
295116	Upgrade	65	60	85	42	43	64	48	49	71	5.9	6.7	7.3
295138	Upgrade	65	60	85	44	44	66	49	50	72	5.5	6.3	6.7
295206	Upgrade	65	60	85	45	45	67	51	52	74	6.2	7.2	7.5
295281	Upgrade	65	60	85	60	61	87	68	69	93	8.0	8.9	6.0
295294	Upgrade	65	60	85	50	49	74	55	55	75	4.9	6.4	1.1
295334	Upgrade	65	60	85	44	44	68	49	50	73	5.6	6.3	5.9
295387	Upgrade	65	60	85	57	56	82	61	61	83	3.7	5.3	1.0
295412	Upgrade	65	60	85	42	43	65	47	48	71	4.4	5.2	5.9
295424	Upgrade	65	60	85	47	47	69	52	53	76	5.8	6.6	7.3
295438	Upgrade	65	60	85	44	44	66	50	51	73	5.9	6.7	6.9
295511	Upgrade	65	60	85	44	45	66	50	51	73	5.8	6.5	7.2
295546	Upgrade	65	60	85	44	44	65	50	51	73	6.6	7.6	8.4
295658	Upgrade	65	60	85	45	45	66	51	52	74	5.8	6.7	7.7
295688	Upgrade	65	60	85	39	40	63	44	45	69	5.2	5.9	5.4
295773	Upgrade	65	60	85	37	37	59	43	44	65	5.2	6.3	6.7
295849	Upgrade	65	60	85	45	45	67	51	52	74	6.4	7.1	6.1
295856	Upgrade	65	60	85	44	44	65	50	51	72	6.1	7.1	7.4
295887	Upgrade	65	60	85	43	43	66	49	50	72	6.0	6.8	6.5
295903	Upgrade	65	60	85	49	48	71	54	55	76	5.1	6.6	5.3
296048	Upgrade	65	60	85	42	42	64	48	49	72	6.0	6.8	7.3
296087	Upgrade	65	60	85	32	32	55	38	39	60	6.0	7.1	5.8
296153	Upgrade	65	60	85	47	46	67	53	53	74	6.2	7.4	7.2
296159	Upgrade	65	60	85	48	47	70	54	54	76	5.9	7.2	5.9
296222	Upgrade	65	60	85	43	43	65	49	50	72	6.1	6.9	7.4
296235	Upgrade	65	60	85	41	41	63	47	48	70	5.3	6.6	7.7
296275	Upgrade	65	60	85	41	41	63	47	47	70	5.6	6.5	7.5
296295	Upgrade	65	60	85	40	40	62	45	46	67	5.0	6.3	5.5
296372	Upgrade	65	60	85	37	37	61	42	43	67	4.8	5.6	5.5
296426	Upgrade	65	60	85	31	30	55	37	38	60	6.4	7.5	4.9
296459	Upgrade	65	60	85	30	30	54	36	36	58	5.4	6.6	4.1
296545	Upgrade	65	60	85	35	35	60	41	42	65	5.7	6.5	5.0
296549	Upgrade	65	60	85	35	35	61	41	42	66	5.8	6.5	5.0
296590	Upgrade	65	60	85	38	38	59	44	45	67	6.4	7.4	8.4
296756	Upgrade	65	60	85	39	39	61	45	46	67	5.5	6.8	5.7
296865	Upgrade	65	60	85	41	41	65	47	47	70	5.3	6.8	4.6
297186	Upgrade	65	60	85	29	30	53	37	38	61	7.4	8.0	8.3
297257	Upgrade	65	60	85	45	45	67	49	50	73	4.7	5.6	5.5
297282	Upgrade	65	60	85	66	64	92	68	69	91	2.8	4.5	-0.8
297312	Upgrade	65	60	85	67	66	92	73	73	95	5.7	7.3	3.2
297320	Upgrade	65	60	85	38	37	60	44	44	67	5.9	7.4	6.9
297470	Upgrade	65	60	85	37	37	59	44	45	67	6.3	7.4	8.0
297473	Upgrade	65	60	85	35	34	58	41	42	64	6.2	7.4	6.1
297544	Upgrade	65	60	85	37	36	58	43	43	66	5.9	7.1	7.3
297582	Upgrade	65	60	85	34	34	57	40	41	64	6.8	7.4	7.4
297583	Upgrade	65	60	85	41	41	64	45	46	70	4.4	5.2	6.6
297598	Upgrade	65	60	85	42	43	66	47	48	72	4.6	5.3	6.0

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
297614	Upgrade	65	60	85	37	36	60	42	43	65	5.2	6.8	5.1
297665	Upgrade	65	60	85	37	36	61	42	43	66	5.2	6.8	4.6
297667	Upgrade	65	60	85	41	41	64	46	47	71	4.5	5.3	6.8
297676	Upgrade	65	60	85	36	36	60	43	44	68	7.0	7.7	8.0
297690	Upgrade	65	60	85	38	37	61	43	44	67	5.2	6.7	5.5
297705	Upgrade	65	60	85	35	36	58	42	43	66	7.1	7.7	8.0
297713	Upgrade	65	60	85	34	34	59	41	42	66	6.9	7.6	7.1
297740	Upgrade	65	60	85	31	32	55	38	39	62	6.6	7.3	7.2
297767	Upgrade	65	60	85	35	34	57	41	41	64	6.1	7.2	6.9
297854	Upgrade	65	60	85	34	35	58	41	42	66	7.0	7.7	7.9
297861	Upgrade	65	60	85	36	37	60	44	45	67	7.5	8.0	7.9
297864	Upgrade	65	60	85	35	34	57	40	41	65	5.8	6.9	7.5
297889	Upgrade	65	60	85	45	45	67	51	52	73	5.5	6.7	6.1
297905	Upgrade	65	60	85	35	35	56	41	42	65	6.5	7.6	8.7
297913	Upgrade	65	60	85	45	45	67	51	52	73	5.5	6.8	6.4
298001	Upgrade	65	60	85	44	43	67	49	50	71	4.8	6.3	4.2
298030	Upgrade	65	60	85	34	33	57	39	40	62	5.4	6.7	5.6
298170	Upgrade	65	60	85	37	37	61	44	44	67	6.2	7.5	6.3
298180	Upgrade	65	60	85	38	38	60	44	45	68	6.4	7.7	8.2
298183	Upgrade	65	60	85	43	43	64	49	50	71	5.6	6.7	7.5
298218	Upgrade	65	60	85	36	35	58	42	43	65	6.4	7.7	7.6
298575	Upgrade	65	60	85	52	52	76	57	57	80	4.5	5.5	4.5
298644	Upgrade	65	60	85	36	36	58	43	44	67	6.9	7.9	8.3
298675	Upgrade	65	60	85	53	53	76	58	59	81	4.3	5.3	5.3
298683	Upgrade	65	60	85	36	36	58	43	44	66	7.1	8.1	8.3
298692	Upgrade	65	60	85	34	33	56	40	41	64	6.3	7.7	8.0
298713	Upgrade	65	60	85	33	32	57	38	39	60	5.3	6.8	3.0
298798	Upgrade	65	60	85	0	0	0	38	39	63	38.3	39.4	63.1
298819	Upgrade	65	60	85	52	52	75	56	57	80	4.5	5.4	4.9
298829	Upgrade	65	60	85	34	34	57	42	43	65	7.5	8.5	7.9
298840	Upgrade	65	60	85	29	29	55	39	40	62	9.7	10.2	7.3
298858	Upgrade	65	60	85	58	58	83	62	63	87	4.4	5.2	3.6
298890	Upgrade	65	60	85	38	38	60	45	46	69	6.3	7.5	8.9
298902	Upgrade	65	60	85	45	45	67	51	52	74	5.6	6.6	6.8
298942	Upgrade	65	60	85	47	46	68	51	52	75	4.9	6.1	7.6
298971	Upgrade	65	60	85	41	41	63	47	48	71	6.2	7.4	8.2
298997	Upgrade	65	60	85	52	52	76	57	58	81	4.5	5.3	4.7
299021	Upgrade	65	60	85	38	37	60	44	45	68	6.2	7.5	8.0
299047	Upgrade	65	60	85	45	45	68	50	51	74	5.2	6.3	6.7
299057	Upgrade	65	60	85	48	47	69	53	54	76	4.9	6.2	6.9
299089	Upgrade	65	60	85	42	42	63	48	49	70	5.7	6.9	7.1
299098	Upgrade	65	60	85	42	42	63	48	49	71	5.8	7.2	8.3
299173	Upgrade	65	60	85	43	42	64	49	50	72	6.2	7.3	8.2
299251	Upgrade	65	60	85	50	49	72	55	55	77	4.7	5.9	5.2
299262	Upgrade	65	60	85	47	46	72	51	52	73	4.0	5.5	1.6
299280	Upgrade	65	60	85	50	49	71	54	55	77	4.7	5.8	6.0
299307	Upgrade	65	60	85	50	49	71	54	55	77	4.7	5.8	5.9
299417	Upgrade	65	60	85	42	43	66	47	48	72	4.5	5.2	5.6
299465	Upgrade	65	60	85	45	45	68	50	51	74	4.9	6.0	5.7
299469	Upgrade	65	60	85	43	43	64	49	50	71	5.7	6.9	7.5
299478	Upgrade	65	60	85	43	44	67	48	49	73	4.4	5.1	5.4



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmaz	LAeq,15hr	LAeq,9hr	LAmaz	LAeq,15hr	LAeq,9hr	LAmaz
299488	Upgrade	65	60	85	42	42	62	48	48	70	5.6	6.9	8.4
299515	Upgrade	65	60	85	29	29	52	35	36	59	6.3	7.1	6.9
299542	Upgrade	65	60	85	28	29	53	34	35	59	5.9	6.4	6.3
299544	Upgrade	65	60	85	26	26	53	33	33	59	6.6	7.1	6.0
299570	Upgrade	65	60	85	46	47	68	51	52	75	4.5	5.3	6.6
299577	Upgrade	65	60	85	28	28	51	35	36	58	6.8	7.5	6.8
299581	Upgrade	65	60	85	27	27	50	33	34	57	6.0	6.5	7.1
299582	Upgrade	65	60	85	32	33	57	39	40	64	6.9	7.6	6.6
299583	Upgrade	65	60	85	27	28	51	33	34	58	6.2	6.9	7.3
299586	Upgrade	65	60	85	31	32	55	38	39	62	6.2	6.9	6.5
299588	Upgrade	65	60	85	28	29	53	35	36	60	7.0	7.6	6.2
299607	Upgrade	65	60	85	32	31	57	35	36	59	2.7	4.5	2.7
299618	Upgrade	65	60	85	30	30	53	36	37	61	5.5	6.4	7.4
299646	Upgrade	65	60	85	46	47	68	51	52	74	4.5	5.3	6.3
299651	Upgrade	65	60	85	28	27	54	29	30	54	0.9	3.0	-0.3
299659	Upgrade	65	60	85	34	33	58	38	39	62	3.9	5.4	4.5
299666	Upgrade	65	60	85	34	34	57	38	39	63	4.2	5.7	5.5
299667	Upgrade	65	60	85	33	33	57	37	38	62	3.6	5.3	4.9
299668	Upgrade	65	60	85	32	32	57	38	39	62	5.4	6.6	5.4
299669	Upgrade	65	60	85	26	25	52	29	30	54	2.7	4.6	1.8
299674	Upgrade	65	60	85	32	31	57	36	37	61	3.7	5.4	3.9
299677	Upgrade	65	60	85	33	32	57	36	37	61	3.3	5.1	3.9
299680	Upgrade	65	60	85	29	28	54	32	33	57	3.1	5.0	2.8
299681	Upgrade	65	60	85	36	36	59	40	42	65	4.4	6.0	6.3
299682	Upgrade	65	60	85	34	33	57	38	39	62	4.0	5.6	5.2
299688	Upgrade	65	60	85	32	32	57	35	36	60	2.8	4.7	2.9
299691	Upgrade	65	60	85	32	31	57	34	35	59	1.9	3.9	2.1
299692	Upgrade	65	60	85	33	32	58	35	36	60	1.3	3.6	1.9
299697	Upgrade	65	60	85	36	35	60	40	41	64	3.9	5.5	4.5
299703	Upgrade	65	60	85	33	33	57	37	38	61	3.3	5.0	3.8
299708	Upgrade	65	60	85	30	29	55	31	32	55	0.6	2.9	0.7
299710	Upgrade	65	60	85	30	29	56	31	32	56	1.7	3.8	0.3
299726	Upgrade	65	60	85	32	30	56	33	34	58	1.8	4.0	1.8
299741	Upgrade	65	60	85	32	31	57	34	35	59	2.1	4.2	2.1
299742	Upgrade	65	60	85	36	35	60	40	41	65	4.3	5.8	5.0
299744	Upgrade	65	60	85	35	34	58	39	40	63	4.3	5.9	4.9
299745	Upgrade	65	60	85	28	27	54	31	32	56	2.9	4.8	2.3
299749	Upgrade	65	60	85	28	28	54	31	32	56	2.8	4.7	2.3
299750	Upgrade	65	60	85	28	27	54	31	32	56	2.6	4.6	2.0
299757	Upgrade	65	60	85	31	30	56	34	35	58	2.4	4.4	2.1
299764	Upgrade	65	60	85	33	32	56	36	37	61	3.8	5.4	4.6
299766	Upgrade	65	60	85	35	35	57	40	41	64	4.8	6.2	7.0
299770	Upgrade	65	60	85	34	33	57	37	38	62	3.7	5.3	4.5
299787	Upgrade	65	60	85	33	32	56	37	38	62	4.1	5.6	5.4
299789	Upgrade	65	60	85	34	34	57	38	39	63	4.3	5.8	5.8
299793	Upgrade	65	60	85	35	34	57	39	40	63	4.6	6.0	6.0
299797	Upgrade	65	60	85	33	32	57	35	36	60	2.7	4.7	2.7
299810	Upgrade	65	60	85	33	33	56	38	39	63	4.9	6.3	6.8
299812	Upgrade	65	60	85	33	32	57	36	37	60	2.8	4.7	3.7
299817	Upgrade	65	60	85	35	34	58	39	40	63	3.8	5.4	4.4
299829	Upgrade	65	60	85	32	31	55	35	36	60	3.1	5.1	5.2

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA				Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	
299830	Upgrade	65	60	85	33	32	57	36	37	61	2.6	4.6	3.6	
299843	Upgrade	65	60	85	34	34	58	38	39	63	3.8	5.4	4.6	
299860	Upgrade	65	60	85	35	35	57	39	40	63	4.2	5.7	6.4	
299864	Upgrade	65	60	85	32	31	55	34	35	59	2.8	4.8	4.6	
299866	Upgrade	65	60	85	32	31	56	34	35	59	2.2	4.3	3.0	
299871	Upgrade	65	60	85	45	45	67	50	51	74	5.3	6.5	7.0	
299877	Upgrade	65	60	85	34	33	57	36	37	61	2.8	4.7	4.4	
299882	Upgrade	65	60	85	36	36	59	40	41	64	4.1	5.7	5.9	
299884	Upgrade	65	60	85	33	32	57	35	36	60	2.3	4.3	2.9	
299886	Upgrade	65	60	85	29	28	54	30	31	55	0.2	2.6	0.2	
299888	Upgrade	65	60	85	29	28	54	30	31	55	1.0	3.3	1.3	
299889	Upgrade	65	60	85	36	35	57	40	41	64	4.0	5.6	6.3	
299890	Upgrade	65	60	85	33	32	55	37	38	62	4.3	6.0	6.9	
299891	Upgrade	65	60	85	33	31	56	34	35	59	1.5	3.7	2.4	
299894	Upgrade	65	60	85	47	47	68	51	52	75	4.5	5.2	6.3	
299911	Upgrade	65	60	85	31	30	54	33	34	58	2.2	4.3	3.6	
299915	Upgrade	65	60	85	30	29	55	32	33	56	1.6	3.8	1.7	
299918	Upgrade	65	60	85	33	32	55	37	38	62	4.2	5.8	6.6	
299919	Upgrade	65	60	85	31	31	55	35	36	60	3.9	5.6	5.4	
299928	Upgrade	65	60	85	31	30	55	34	35	59	2.4	4.4	3.9	
299932	Upgrade	65	60	85	30	29	54	32	33	57	1.5	3.7	2.7	
299941	Upgrade	65	60	85	36	35	58	40	41	64	4.0	5.6	6.0	
299942	Upgrade	65	60	85	35	34	58	39	40	64	3.8	5.6	6.1	
299945	Upgrade	65	60	85	30	28	55	31	32	56	0.9	3.2	0.2	
299952	Upgrade	65	60	85	45	45	67	50	51	74	5.2	6.3	6.6	
299953	Upgrade	65	60	85	35	34	56	39	40	63	4.5	6.0	7.5	
299963	Upgrade	65	60	85	33	33	56	38	39	62	4.8	6.2	6.1	
299965	Upgrade	65	60	85	30	29	53	33	34	58	3.2	5.0	4.2	
299972	Upgrade	65	60	85	33	32	55	37	38	61	3.8	5.6	6.1	
299984	Upgrade	65	60	85	43	42	64	48	49	71	5.4	6.6	6.4	
299993	Upgrade	65	60	85	32	31	56	34	35	59	2.1	4.2	3.5	
299995	Upgrade	65	60	85	31	30	54	35	36	59	3.7	5.5	5.4	
299996	Upgrade	65	60	85	35	34	57	39	40	63	3.6	5.3	5.9	
300005	Upgrade	65	60	85	33	33	55	38	39	62	4.4	6.0	7.2	
300006	Upgrade	65	60	85	28	27	54	31	32	56	2.7	4.6	2.2	
300009	Upgrade	65	60	85	44	44	67	48	49	73	4.5	5.1	5.3	
300015	Upgrade	65	60	85	33	33	55	38	39	62	4.2	5.8	6.9	
300021	Upgrade	65	60	85	33	32	55	36	37	61	3.5	5.3	5.7	
300025	Upgrade	65	60	85	35	34	57	39	40	63	3.9	5.5	6.0	
300030	Upgrade	65	60	85	34	34	57	38	39	63	4.0	5.6	5.6	
300037	Upgrade	65	60	85	30	29	55	33	34	58	3.1	5.0	2.9	
300040	Upgrade	65	60	85	32	31	55	34	35	58	2.3	4.3	3.4	
300043	Upgrade	65	60	85	35	34	58	39	40	63	3.3	5.1	4.9	
300048	Upgrade	65	60	85	34	33	58	36	37	61	2.1	4.2	3.1	
300052	Upgrade	65	60	85	36	35	57	40	41	64	4.1	5.5	7.3	
300057	Upgrade	65	60	85	33	32	55	36	37	61	3.6	5.5	5.2	
300062	Upgrade	65	60	85	37	37	60	41	42	65	3.6	4.9	5.2	
300063	Upgrade	65	60	85	31	30	55	33	34	57	1.8	4.0	2.7	
300064	Upgrade	65	60	85	44	43	65	49	50	72	5.5	6.5	7.8	
300067	Upgrade	65	60	85	46	47	68	51	52	74	4.5	5.3	6.5	
300080	Upgrade	65	60	85	32	31	57	34	36	59	2.1	4.3	2.6	



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA				Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	
300083	Upgrade	65	60	85	31	31	54	34	35	59	3.0	4.9	4.8	
300084	Upgrade	65	60	85	34	33	57	38	39	62	3.8	5.5	4.7	
300088	Upgrade	65	60	85	35	34	59	39	40	63	3.3	5.2	4.2	
300092	Upgrade	65	60	85	41	40	63	46	47	69	5.4	6.6	6.3	
300100	Upgrade	65	60	85	36	35	59	39	40	63	3.5	5.2	4.0	
300102	Upgrade	65	60	85	35	34	58	38	39	63	3.2	5.0	4.7	
300104	Upgrade	65	60	85	33	32	55	36	37	61	3.3	5.1	5.3	
300106	Upgrade	65	60	85	33	32	57	34	35	58	0.8	3.1	1.3	
300107	Upgrade	65	60	85	36	35	58	40	41	65	4.9	6.3	7.7	
300108	Upgrade	65	60	85	35	34	59	39	40	64	4.3	5.9	5.7	
300111	Upgrade	65	60	85	33	32	57	34	35	59	1.2	3.4	2.3	
300115	Upgrade	65	60	85	42	42	64	47	48	71	4.8	5.8	6.3	
300121	Upgrade	65	60	85	35	34	58	37	38	62	2.7	4.7	3.8	
300122	Upgrade	65	60	85	31	30	55	33	34	58	1.7	3.9	2.8	
300126	Upgrade	65	60	85	34	34	57	38	39	63	4.0	5.7	6.2	
300129	Upgrade	65	60	85	35	35	57	39	40	64	4.3	5.7	7.0	
300133	Upgrade	65	60	85	52	52	77	30	31	55	-22.1	-21.3	-22.8	
300135	Upgrade	65	60	85	33	33	55	38	39	62	4.1	5.7	6.6	
300142	Upgrade	65	60	85	34	34	58	37	38	62	3.0	4.9	3.8	
300144	Upgrade	65	60	85	53	53	78	33	34	58	-19.9	-19.2	-20.5	
300146	Upgrade	65	60	85	34	34	56	39	40	63	4.9	6.3	7.6	
300147	Upgrade	65	60	85	34	33	58	36	37	61	1.7	4.0	2.8	
300149	Upgrade	65	60	85	36	36	58	41	42	65	4.6	6.0	7.1	
300155	Upgrade	65	60	85	37	37	60	41	42	66	4.0	5.2	6.0	
300159	Upgrade	65	60	85	33	32	57	36	38	61	3.1	5.1	3.8	
300165	Upgrade	65	60	85	35	35	58	39	40	63	3.7	5.5	5.0	
300166	Upgrade	65	60	85	36	35	58	39	40	64	3.8	5.5	5.7	
300169	Upgrade	65	60	85	35	34	57	38	39	62	3.3	5.2	5.0	
300172	Upgrade	65	60	85	32	31	55	34	35	58	1.9	4.0	3.1	
300175	Upgrade	65	60	85	51	51	76	36	37	61	-14.8	-14.0	-15.5	
300177	Upgrade	65	60	85	35	34	58	39	40	63	3.7	5.4	5.0	
300184	Upgrade	65	60	85	35	34	58	38	39	62	2.9	4.8	4.3	
300188	Upgrade	65	60	85	38	37	61	43	43	66	4.7	6.0	5.1	
300189	Upgrade	65	60	85	32	30	55	32	33	57	0.9	3.2	2.1	
300192	Upgrade	65	60	85	35	34	58	38	39	63	3.3	5.2	4.9	
300199	Upgrade	65	60	85	36	36	57	41	42	65	4.6	5.9	7.5	
300201	Upgrade	65	60	85	32	31	56	35	36	60	3.0	5.0	3.6	
300204	Upgrade	65	60	85	39	39	61	45	46	69	5.8	6.9	7.9	
300215	Upgrade	65	60	85	46	47	68	51	52	74	4.5	5.3	6.7	
300217	Upgrade	65	60	85	38	38	60	42	43	67	4.1	5.4	6.6	
300221	Upgrade	65	60	85	46	47	68	51	52	74	4.5	5.3	6.4	
300223	Upgrade	65	60	85	35	35	58	39	40	63	4.0	5.8	5.8	
300224	Upgrade	65	60	85	55	55	80	39	40	64	-15.2	-14.5	-15.9	
300227	Upgrade	65	60	85	34	33	58	35	36	60	1.2	3.5	2.0	
300229	Upgrade	65	60	85	40	40	62	45	46	69	5.5	6.6	7.5	
300231	Upgrade	65	60	85	51	51	75	40	41	65	-11.2	-10.5	-10.7	
300232	Upgrade	65	60	85	35	34	58	38	39	62	2.8	4.9	3.5	
300240	Upgrade	65	60	85	50	51	75	33	34	57	-17.3	-16.5	-17.3	
300243	Upgrade	65	60	85	35	34	58	38	39	63	3.7	5.3	5.1	
300246	Upgrade	65	60	85	40	40	63	45	46	70	4.6	5.6	6.4	
300249	Upgrade	65	60	85	36	35	59	39	40	63	3.0	4.8	3.8	

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmix	LAeq,15hr	LAeq,9hr	LAmix	LAeq,15hr	LAeq,9hr	LAmix
300250	Upgrade	65	60	85	41	40	63	46	47	69	5.1	6.3	6.0
300255	Upgrade	65	60	85	34	33	56	38	39	62	4.1	5.8	6.6
300257	Upgrade	65	60	85	32	31	57	34	35	59	2.2	4.3	2.3
300258	Upgrade	65	60	85	36	35	58	40	41	64	4.2	5.7	6.1
300259	Upgrade	65	60	85	35	34	57	38	39	63	3.7	5.5	6.1
300263	Upgrade	65	60	85	34	34	56	39	40	62	4.4	5.9	6.3
300264	Upgrade	65	60	85	33	32	57	35	36	59	1.4	3.6	2.2
300266	Upgrade	65	60	85	31	30	55	32	33	57	0.9	3.2	2.0
300267	Upgrade	65	60	85	54	54	78	39	40	63	-15.0	-14.3	-14.9
300268	Upgrade	65	60	85	51	51	74	35	36	59	-16.1	-15.4	-15.1
300269	Upgrade	65	60	85	36	35	60	39	40	64	3.5	5.2	4.2
300271	Upgrade	65	60	85	59	59	85	37	38	61	-22.1	-21.6	-23.2
300272	Upgrade	65	60	85	36	36	58	40	41	64	4.2	5.7	6.3
300274	Upgrade	65	60	85	33	33	56	37	38	61	3.4	5.1	5.3
300275	Upgrade	65	60	85	39	39	62	43	44	68	4.5	5.4	6.2
300276	Upgrade	65	60	85	54	54	80	38	39	63	-16.2	-15.5	-17.1
300284	Upgrade	65	60	85	35	34	57	39	40	63	4.4	5.9	6.5
300289	Upgrade	65	60	85	37	36	60	40	41	64	2.9	4.6	4.1
300291	Upgrade	65	60	85	47	46	69	52	52	74	5.0	6.0	5.4
300295	Upgrade	65	60	85	35	34	57	38	39	63	3.9	5.6	6.0
300302	Upgrade	65	60	85	35	34	58	39	40	63	4.2	5.8	5.6
300304	Upgrade	65	60	85	33	33	56	37	38	62	3.7	5.4	6.0
300305	Upgrade	65	60	85	54	54	78	35	36	59	-19.2	-18.5	-18.9
300310	Upgrade	65	60	85	35	35	59	39	40	64	4.3	5.8	5.1
300314	Upgrade	65	60	85	37	37	60	40	41	65	3.1	4.5	5.3
300322	Upgrade	65	60	85	37	36	60	41	42	65	3.8	5.6	5.4
300327	Upgrade	65	60	85	32	31	56	34	35	58	1.7	4.0	2.9
300329	Upgrade	65	60	85	34	34	57	38	39	62	3.5	5.2	5.2
300330	Upgrade	65	60	85	32	30	55	33	34	58	1.3	3.6	2.5
300332	Upgrade	65	60	85	36	35	57	40	41	64	4.3	5.6	7.2
300333	Upgrade	65	60	85	35	35	58	39	40	63	3.7	5.2	5.2
300335	Upgrade	65	60	85	35	34	57	39	40	63	3.9	5.6	5.9
300339	Upgrade	65	60	85	31	29	55	30	31	55	-1.2	1.3	-0.6
300340	Upgrade	65	60	85	59	60	85	38	39	62	-21.7	-21.0	-22.7
300343	Upgrade	65	60	85	51	52	77	40	41	64	-11.5	-10.7	-12.1
300345	Upgrade	65	60	85	34	33	56	38	39	62	4.1	5.7	6.3
300349	Upgrade	65	60	85	35	34	58	38	39	63	2.7	4.8	4.3
300353	Upgrade	65	60	85	36	36	60	40	41	64	3.4	5.1	4.2
300354	Upgrade	65	60	85	40	39	62	45	46	68	5.2	6.4	6.6
300358	Upgrade	65	60	85	37	36	59	41	42	66	4.7	5.9	6.7
300359	Upgrade	65	60	85	34	33	56	38	39	63	4.1	5.8	6.4
300362	Upgrade	65	60	85	36	35	59	39	40	63	3.0	5.1	4.6
300370	Upgrade	65	60	85	38	38	61	43	44	66	4.9	6.0	4.8
300378	Upgrade	65	60	85	53	53	78	39	40	64	-13.6	-13.0	-14.2
300379	Upgrade	65	60	85	39	40	64	44	45	70	5.0	5.9	5.8
300382	Upgrade	65	60	85	40	40	62	45	46	68	4.6	6.0	6.0
300389	Upgrade	65	60	85	34	34	58	38	39	62	3.1	4.9	4.2
300390	Upgrade	65	60	85	33	32	57	34	35	59	1.0	3.2	1.2
300391	Upgrade	65	60	85	33	32	56	36	37	61	3.1	5.0	5.0
300392	Upgrade	65	60	85	34	33	58	35	36	60	1.4	3.7	2.1
300395	Upgrade	65	60	85	38	37	60	41	42	65	3.4	4.8	4.9



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax
300396	Upgrade	65	60	85	36	35	60	39	40	64	2.7	4.7	3.3
300406	Upgrade	65	60	85	59	60	85	41	42	65	-18.6	-17.9	-19.6
300407	Upgrade	65	60	85	33	32	56	35	36	60	2.3	4.3	3.7
300410	Upgrade	65	60	85	33	32	56	36	37	60	2.8	4.8	3.8
300412	Upgrade	65	60	85	38	37	61	42	43	67	4.8	6.0	6.7
300413	Upgrade	65	60	85	36	35	59	39	40	63	3.2	5.1	3.8
300416	Upgrade	65	60	85	52	52	76	40	41	64	-12.2	-11.5	-12.0
300420	Upgrade	65	60	85	36	35	59	40	41	64	3.3	5.1	5.0
300425	Upgrade	65	60	85	35	35	57	40	41	64	4.8	6.2	7.3
300426	Upgrade	65	60	85	35	34	59	38	39	62	3.4	5.2	3.8
300434	Upgrade	65	60	85	35	34	59	39	40	63	3.4	5.3	4.0
300436	Upgrade	65	60	85	52	52	77	40	41	65	-11.8	-11.2	-12.4
300445	Upgrade	65	60	85	34	33	58	35	36	60	1.1	3.5	2.2
300446	Upgrade	65	60	85	34	34	56	38	39	63	4.0	5.5	6.7
300447	Upgrade	65	60	85	40	40	63	44	45	69	4.4	5.4	5.5
300449	Upgrade	65	60	85	53	53	78	41	42	66	-11.4	-10.7	-12.3
300450	Upgrade	65	60	85	40	40	64	44	45	69	4.3	5.3	5.3
300451	Upgrade	65	60	85	39	39	63	42	43	68	3.3	4.5	4.3
300453	Upgrade	65	60	85	50	50	75	40	41	65	-10.1	-9.4	-10.8
300456	Upgrade	65	60	85	35	35	57	40	41	64	4.4	5.8	6.9
300457	Upgrade	65	60	85	34	33	58	34	35	59	0.4	2.7	1.1
300458	Upgrade	65	60	85	37	36	59	41	42	65	3.9	5.5	6.3
300460	Upgrade	65	60	85	35	34	58	38	39	62	3.3	5.0	4.3
300466	Upgrade	65	60	85	38	38	60	42	43	67	4.1	5.4	6.9
300468	Upgrade	65	60	85	37	37	59	41	42	66	4.4	5.9	6.9
300471	Upgrade	65	60	85	36	35	58	39	40	64	3.6	5.3	5.5
300473	Upgrade	65	60	85	51	52	76	40	41	65	-10.8	-10.1	-11.3
300474	Upgrade	65	60	85	34	33	58	37	38	62	3.0	4.8	4.1
300476	Upgrade	65	60	85	40	40	63	45	46	69	5.0	6.0	6.5
300478	Upgrade	65	60	85	45	45	68	50	50	73	4.7	5.7	5.0
300490	Upgrade	65	60	85	37	36	60	41	42	65	3.5	5.4	5.4
300491	Upgrade	65	60	85	50	50	75	40	41	65	-9.6	-8.9	-10.4
300493	Upgrade	65	60	85	35	35	59	39	40	64	3.4	5.3	4.9
300502	Upgrade	65	60	85	34	33	57	37	38	62	3.5	5.2	5.1
300503	Upgrade	65	60	85	34	34	58	38	39	62	3.2	5.0	3.6
300506	Upgrade	65	60	85	36	35	59	39	40	64	3.6	5.3	4.6
300508	Upgrade	65	60	85	38	38	62	43	44	68	4.7	5.8	6.2
300510	Upgrade	65	60	85	37	37	62	42	43	67	4.2	5.3	5.1
300513	Upgrade	65	60	85	35	34	60	38	39	63	3.3	5.2	3.0
300514	Upgrade	65	60	85	38	38	61	43	44	67	4.3	5.6	5.7
300517	Upgrade	65	60	85	33	32	57	34	35	59	1.1	3.4	2.0
300518	Upgrade	65	60	85	38	38	62	43	44	68	4.3	5.6	5.9
300522	Upgrade	65	60	85	51	51	76	43	44	67	-7.9	-7.2	-8.2
300528	Upgrade	65	60	85	35	34	58	39	40	63	3.9	5.6	4.8
300529	Upgrade	65	60	85	36	35	60	38	39	63	2.4	4.5	3.4
300534	Upgrade	65	60	85	36	35	59	39	40	63	2.9	4.9	4.3
300543	Upgrade	65	60	85	36	35	59	39	41	64	3.9	5.7	5.6
300545	Upgrade	65	60	85	37	37	60	41	42	65	4.1	5.8	5.3
300546	Upgrade	65	60	85	37	36	61	40	41	65	3.3	5.1	4.1
300558	Upgrade	65	60	85	38	38	62	43	44	68	4.8	6.0	6.3
300559	Upgrade	65	60	85	36	35	60	40	41	64	3.5	5.4	3.9

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA				Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	
300560	Upgrade	65	60	85	34	33	57	37	38	61	2.8	4.8	4.4	
300563	Upgrade	65	60	85	46	47	68	51	52	75	4.5	5.2	6.3	
300568	Upgrade	65	60	85	49	50	75	43	44	67	-6.7	-6.0	-7.5	
300572	Upgrade	65	60	85	34	33	58	36	37	60	2.4	4.5	2.5	
300592	Upgrade	65	60	85	44	44	67	49	50	72	5.1	6.1	5.2	
300596	Upgrade	65	60	85	35	35	58	40	41	64	4.7	6.0	6.2	
300597	Upgrade	65	60	85	35	35	59	39	40	63	3.7	5.4	4.3	
300598	Upgrade	65	60	85	34	33	58	36	37	60	1.6	3.8	2.4	
300602	Upgrade	65	60	85	36	35	59	40	41	64	4.2	5.8	4.9	
300605	Upgrade	65	60	85	33	32	57	36	37	60	2.6	4.6	3.7	
300607	Upgrade	65	60	85	34	33	58	35	36	60	1.3	3.5	2.0	
300609	Upgrade	65	60	85	34	33	58	36	37	61	2.1	4.2	2.1	
300610	Upgrade	65	60	85	35	34	59	37	38	61	1.9	4.0	2.8	
300611	Upgrade	65	60	85	39	39	62	43	44	68	3.9	5.1	5.6	
300614	Upgrade	65	60	85	50	50	75	42	43	67	-7.8	-7.1	-8.5	
300617	Upgrade	65	60	85	39	38	62	42	44	67	3.8	5.3	5.9	
300620	Upgrade	65	60	85	37	36	59	41	42	65	3.6	5.3	5.6	
300623	Upgrade	65	60	85	41	41	64	45	46	70	4.7	5.7	5.9	
300635	Upgrade	65	60	85	36	35	58	39	40	64	3.6	5.3	5.7	
300641	Upgrade	65	60	85	36	35	58	40	41	64	4.1	5.6	6.1	
300646	Upgrade	65	60	85	36	36	59	40	41	64	3.6	5.4	5.5	
300648	Upgrade	65	60	85	37	36	59	41	42	66	4.3	5.9	6.3	
300662	Upgrade	65	60	85	40	40	64	44	45	69	4.0	5.2	5.7	
300672	Upgrade	65	60	85	37	36	59	40	42	65	3.9	5.6	5.7	
300673	Upgrade	65	60	85	37	36	60	41	42	65	3.6	5.4	5.1	
300676	Upgrade	65	60	85	34	32	58	35	36	59	1.1	3.3	1.5	
300687	Upgrade	65	60	85	37	36	59	41	42	65	3.7	5.4	6.2	
300688	Upgrade	65	60	85	37	36	59	40	41	65	3.6	5.4	5.8	
300692	Upgrade	65	60	85	36	36	60	40	41	64	3.4	5.1	3.7	
300697	Upgrade	65	60	85	37	37	60	41	42	65	4.0	5.7	5.7	
300710	Upgrade	65	60	85	37	37	60	42	43	66	4.3	5.7	6.2	
300715	Upgrade	65	60	85	37	36	60	40	41	64	3.2	5.1	4.0	
300722	Upgrade	65	60	85	35	34	58	38	40	63	3.2	5.2	4.9	
300725	Upgrade	65	60	85	36	35	59	39	40	63	2.8	4.8	4.3	
300730	Upgrade	65	60	85	40	39	62	44	45	69	4.6	5.7	6.5	
300731	Upgrade	65	60	85	36	36	58	39	40	64	3.2	4.7	5.4	
300732	Upgrade	65	60	85	37	36	59	41	42	66	4.7	6.3	7.0	
300735	Upgrade	65	60	85	36	35	59	39	40	63	2.6	4.5	3.2	
300736	Upgrade	65	60	85	36	35	59	39	40	62	3.1	4.8	3.8	
300739	Upgrade	65	60	85	35	34	58	38	39	63	2.7	4.8	4.4	
300742	Upgrade	65	60	85	38	38	60	42	43	66	4.1	5.5	6.1	
300743	Upgrade	65	60	85	36	35	60	39	40	63	3.1	5.0	3.0	
300744	Upgrade	65	60	85	37	36	60	39	40	64	2.7	4.6	3.6	
300750	Upgrade	65	60	85	36	36	60	40	41	65	3.7	5.6	4.9	
300766	Upgrade	65	60	85	50	50	73	54	55	78	4.4	5.2	5.2	
300768	Upgrade	65	60	85	36	34	59	38	39	62	2.1	4.2	3.1	
300769	Upgrade	65	60	85	39	39	63	44	45	69	4.5	5.7	5.8	
300774	Upgrade	65	60	85	45	45	69	50	51	75	5.0	5.7	5.4	
300776	Upgrade	65	60	85	35	34	59	37	38	62	1.7	3.9	2.6	
300782	Upgrade	65	60	85	39	39	62	43	44	68	4.5	5.6	6.2	
300784	Upgrade	65	60	85	38	38	61	42	43	67	4.1	5.3	6.0	



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA				Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	
300786	Upgrade	65	60	85	35	34	59	37	38	61	1.5	3.7	2.5	
300789	Upgrade	65	60	85	35	34	57	38	39	63	3.8	5.5	5.8	
300793	Upgrade	65	60	85	34	32	58	31	32	56	-2.6	0.2	-2.6	
300794	Upgrade	65	60	85	35	34	57	39	40	63	3.9	5.6	6.2	
300798	Upgrade	65	60	85	39	38	61	42	43	67	3.7	5.1	6.0	
300800	Upgrade	65	60	85	35	34	59	36	37	61	1.1	3.4	1.5	
300801	Upgrade	65	60	85	35	34	59	39	40	63	3.5	5.3	4.3	
300806	Upgrade	65	60	85	44	45	68	49	50	73	4.9	5.6	5.3	
300811	Upgrade	65	60	85	36	35	57	40	41	64	4.5	6.0	7.0	
300812	Upgrade	65	60	85	32	31	56	33	34	58	0.8	3.1	1.6	
300814	Upgrade	65	60	85	37	36	60	41	42	64	3.7	5.4	4.2	
300815	Upgrade	65	60	85	39	38	61	43	44	68	4.3	5.7	6.5	
300816	Upgrade	65	60	85	35	33	59	35	36	60	0.6	2.9	1.2	
300818	Upgrade	65	60	85	39	38	61	43	44	68	4.1	5.5	6.7	
300821	Upgrade	65	60	85	37	37	60	41	42	65	3.8	5.5	5.8	
300824	Upgrade	65	60	85	47	47	69	51	52	75	4.6	5.3	6.3	
300826	Upgrade	65	60	85	38	38	62	43	44	68	5.4	6.2	5.9	
300828	Upgrade	65	60	85	35	35	58	39	40	64	4.0	5.7	6.2	
300834	Upgrade	65	60	85	39	39	62	43	44	68	4.0	5.2	5.5	
300839	Upgrade	65	60	85	32	30	56	32	33	57	0.5	2.9	0.8	
300844	Upgrade	65	60	85	36	36	59	40	41	65	4.2	5.8	5.9	
300845	Upgrade	65	60	85	36	35	59	40	41	64	3.6	5.3	5.6	
300849	Upgrade	65	60	85	37	37	60	41	42	66	4.2	5.7	6.2	
300851	Upgrade	65	60	85	37	36	59	41	42	66	4.6	6.2	7.3	
300854	Upgrade	65	60	85	37	36	60	41	42	65	4.0	5.7	5.9	
300857	Upgrade	65	60	85	39	39	63	42	43	67	3.2	4.3	4.4	
300859	Upgrade	65	60	85	36	35	59	39	40	64	3.6	5.3	4.4	
300860	Upgrade	65	60	85	50	50	75	55	56	80	4.5	5.2	4.5	
300864	Upgrade	65	60	85	40	40	63	44	45	69	3.9	5.1	5.7	
300875	Upgrade	65	60	85	39	39	61	43	44	67	3.9	5.3	6.0	
300877	Upgrade	65	60	85	37	36	59	40	41	64	3.5	5.0	5.6	
300882	Upgrade	65	60	85	37	36	58	41	42	66	4.8	6.1	7.4	
300886	Upgrade	65	60	85	37	36	60	39	40	64	2.8	4.8	4.2	
300891	Upgrade	65	60	85	39	39	63	43	44	68	3.9	5.0	4.7	
300893	Upgrade	65	60	85	37	36	60	40	41	64	3.2	4.8	4.3	
300895	Upgrade	65	60	85	35	35	59	38	40	63	3.1	5.0	4.0	
300902	Upgrade	65	60	85	37	36	60	40	41	64	3.6	5.5	4.1	
300906	Upgrade	65	60	85	37	36	61	40	41	65	3.3	5.2	3.8	
300907	Upgrade	65	60	85	51	51	74	55	56	80	4.5	5.2	5.6	
300909	Upgrade	65	60	85	36	35	60	39	40	63	2.8	4.8	3.8	
300912	Upgrade	65	60	85	40	40	63	43	44	68	3.1	4.4	4.5	
300913	Upgrade	65	60	85	38	37	60	42	43	66	3.9	5.5	6.1	
300917	Upgrade	65	60	85	37	37	60	41	42	66	4.3	5.5	5.9	
300922	Upgrade	65	60	85	34	33	57	36	38	61	2.6	4.7	3.9	
300923	Upgrade	65	60	85	50	51	75	55	56	80	4.6	5.3	4.8	
300930	Upgrade	65	60	85	36	35	59	39	40	64	2.7	4.5	4.3	
300932	Upgrade	65	60	85	36	35	60	39	40	63	2.7	4.7	3.8	
300936	Upgrade	65	60	85	36	35	59	38	39	63	2.0	4.1	3.1	
300938	Upgrade	65	60	85	35	34	59	37	39	62	2.2	4.4	3.1	
300940	Upgrade	65	60	85	35	35	59	39	40	63	3.1	4.9	3.3	
300942	Upgrade	65	60	85	37	36	59	41	42	65	4.2	5.9	6.1	

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax
300945	Upgrade	65	60	85	39	38	61	42	43	67	3.3	4.7	5.4
300955	Upgrade	65	60	85	37	36	61	40	41	65	3.4	5.2	3.8
300962	Upgrade	65	60	85	39	39	62	43	44	68	3.7	5.1	5.8
300967	Upgrade	65	60	85	37	36	60	40	41	65	3.4	5.2	4.7
300968	Upgrade	65	60	85	36	35	59	38	39	63	2.0	4.2	3.1
300969	Upgrade	65	60	85	36	36	59	40	41	64	3.7	5.4	4.7
300970	Upgrade	65	60	85	37	36	60	40	41	65	3.3	5.0	5.0
300972	Upgrade	65	60	85	34	33	57	38	39	62	3.5	5.4	4.6
300974	Upgrade	65	60	85	38	38	61	42	43	67	4.4	5.7	6.6
300980	Upgrade	65	60	85	37	36	60	41	42	65	3.7	5.5	5.5
300984	Upgrade	65	60	85	38	37	60	42	43	66	3.9	5.5	5.9
300991	Upgrade	65	60	85	39	39	62	43	44	67	3.6	4.9	5.4
300997	Upgrade	65	60	85	37	36	60	41	42	65	4.3	5.8	5.4
300998	Upgrade	65	60	85	33	32	57	35	36	60	2.2	4.3	3.4
301001	Upgrade	65	60	85	38	37	61	41	42	65	2.8	4.7	3.5
301003	Upgrade	65	60	85	33	32	57	35	36	60	2.1	4.3	3.3
301012	Upgrade	65	60	85	34	33	58	36	37	60	1.9	4.0	1.6
301015	Upgrade	65	60	85	37	37	60	41	42	66	4.3	5.9	5.6
301019	Upgrade	65	60	85	37	36	60	39	40	63	2.6	4.4	3.3
301020	Upgrade	65	60	85	38	37	60	42	43	66	3.8	5.5	5.8
301021	Upgrade	65	60	85	37	37	59	41	42	66	4.1	5.6	6.9
301025	Upgrade	65	60	85	37	36	59	41	42	65	4.2	5.7	6.2
301026	Upgrade	65	60	85	37	36	60	40	41	64	3.0	4.9	4.4
301031	Upgrade	65	60	85	39	38	62	43	44	68	4.2	5.4	5.8
301033	Upgrade	65	60	85	33	32	58	34	35	58	0.4	2.9	0.7
301034	Upgrade	65	60	85	37	36	61	39	40	64	2.0	4.1	2.5
301038	Upgrade	65	60	85	41	41	64	44	45	69	3.6	4.8	5.1
301041	Upgrade	65	60	85	49	50	74	34	35	59	-15.1	-14.4	-14.8
301043	Upgrade	65	60	85	35	35	59	39	40	64	3.5	4.9	5.1
301046	Upgrade	65	60	85	37	37	59	41	42	65	3.7	5.1	5.6
301047	Upgrade	65	60	85	32	31	58	34	35	58	1.7	4.0	-0.2
301048	Upgrade	65	60	85	34	34	57	38	39	62	4.0	5.7	4.9
301049	Upgrade	65	60	85	52	52	77	56	57	81	4.6	5.3	4.8
301053	Upgrade	65	60	85	38	37	60	42	43	66	3.8	5.4	6.1
301057	Upgrade	65	60	85	37	36	59	41	42	65	3.7	5.4	5.9
301059	Upgrade	65	60	85	37	37	59	41	42	65	4.1	5.7	6.3
301060	Upgrade	65	60	85	37	37	59	41	42	65	4.3	5.5	6.2
301067	Upgrade	65	60	85	49	49	73	41	42	65	-8.4	-7.7	-7.5
301069	Upgrade	65	60	85	40	40	63	43	44	68	3.3	4.6	5.1
301070	Upgrade	65	60	85	36	35	59	39	40	63	2.9	4.8	4.1
301072	Upgrade	65	60	85	26	25	52	28	29	53	1.9	4.1	0.7
301073	Upgrade	65	60	85	39	38	62	42	43	67	3.6	4.8	4.7
301074	Upgrade	65	60	85	37	36	60	41	42	66	3.7	5.5	5.7
301077	Upgrade	65	60	85	39	39	63	44	45	69	4.5	5.7	5.8
301079	Upgrade	65	60	85	34	33	56	38	39	62	3.8	5.5	5.4
301094	Upgrade	65	60	85	37	36	60	40	41	65	3.0	4.9	4.6
301097	Upgrade	65	60	85	48	49	71	40	41	64	-8.8	-8.0	-7.6
301100	Upgrade	65	60	85	36	36	59	40	41	64	3.4	5.0	4.2
301107	Upgrade	65	60	85	37	37	61	41	42	65	3.8	4.7	4.2
301110	Upgrade	65	60	85	38	37	60	42	43	67	4.4	5.8	6.8
301126	Upgrade	65	60	85	39	39	62	43	44	68	3.8	5.2	5.7



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax
301128	Upgrade	65	60	85	37	36	60	40	41	65	3.4	5.2	4.6
301132	Upgrade	65	60	85	36	36	59	39	40	64	2.7	4.6	4.6
301134	Upgrade	65	60	85	39	39	63	42	43	67	3.1	4.5	4.5
301138	Upgrade	65	60	85	36	35	59	39	40	64	3.9	5.6	5.1
301140	Upgrade	65	60	85	37	37	60	41	42	65	4.1	5.2	5.0
301141	Upgrade	65	60	85	36	35	59	39	40	64	2.7	4.6	4.3
301142	Upgrade	65	60	85	37	37	59	40	41	64	3.2	4.6	5.2
301144	Upgrade	65	60	85	36	35	59	39	41	64	3.5	5.4	5.8
301149	Upgrade	65	60	85	36	35	59	38	39	62	2.0	4.0	3.2
301151	Upgrade	65	60	85	42	42	64	48	49	71	5.6	6.6	7.7
301152	Upgrade	65	60	85	38	38	62	42	43	66	3.6	5.4	4.8
301158	Upgrade	65	60	85	36	34	59	37	38	62	1.7	3.9	3.0
301165	Upgrade	65	60	85	43	44	66	49	50	74	5.6	6.3	7.5
301166	Upgrade	65	60	85	39	39	61	43	44	67	4.1	5.3	6.0
301167	Upgrade	65	60	85	37	36	60	41	42	66	4.1	5.9	5.8
301172	Upgrade	65	60	85	38	37	60	42	43	66	3.9	5.5	6.0
301173	Upgrade	65	60	85	50	50	72	36	37	60	-13.7	-13.0	-11.4
301176	Upgrade	65	60	85	37	37	61	41	42	65	3.2	4.4	4.4
301177	Upgrade	65	60	85	38	37	60	41	42	66	3.5	5.3	5.3
301178	Upgrade	65	60	85	35	35	58	39	40	64	3.9	5.1	5.6
301179	Upgrade	65	60	85	39	38	62	42	43	67	3.0	4.4	4.9
301180	Upgrade	65	60	85	35	34	59	36	37	61	1.1	3.3	2.1
301184	Upgrade	65	60	85	33	32	57	35	36	60	1.9	4.1	2.6
301186	Upgrade	65	60	85	37	36	60	41	42	66	4.2	5.7	6.1
301187	Upgrade	65	60	85	36	35	60	38	39	62	1.9	4.1	2.7
301193	Upgrade	65	60	85	38	38	60	42	43	66	4.0	5.3	5.9
301199	Upgrade	65	60	85	37	37	60	42	43	66	4.3	5.9	6.4
301202	Upgrade	65	60	85	33	31	58	33	34	57	0.3	2.6	-0.7
301204	Upgrade	65	60	85	39	39	62	43	44	68	3.9	5.1	5.8
301208	Upgrade	65	60	85	38	37	62	40	41	65	2.6	4.6	2.7
301209	Upgrade	65	60	85	27	26	50	31	32	55	3.8	5.6	5.3
301220	Upgrade	65	60	85	30	29	56	31	32	55	0.6	2.9	-1.2
301222	Upgrade	65	60	85	38	37	61	40	41	65	2.3	3.9	3.2
301223	Upgrade	65	60	85	37	36	60	41	42	66	4.2	6.0	5.6
301225	Upgrade	65	60	85	38	38	62	42	43	66	3.9	4.9	4.9
301226	Upgrade	65	60	85	45	45	67	50	51	73	5.0	5.7	6.3
301227	Upgrade	65	60	85	27	26	51	30	31	55	3.2	5.1	4.1
301229	Upgrade	65	60	85	34	33	59	32	33	57	-2.1	0.6	-2.2
301233	Upgrade	65	60	85	38	38	61	42	43	66	3.7	5.1	5.8
301235	Upgrade	65	60	85	30	29	55	32	34	57	2.4	4.5	1.5
301237	Upgrade	65	60	85	38	37	61	40	41	64	2.8	4.5	2.4
301240	Upgrade	65	60	85	37	37	59	41	42	65	3.3	4.8	6.0
301250	Upgrade	65	60	85	29	27	53	29	30	54	0.3	2.6	0.7
301252	Upgrade	65	60	85	49	49	72	31	32	55	-18.0	-17.2	-16.4
301255	Upgrade	65	60	85	34	33	58	35	36	60	1.0	3.4	1.2
301258	Upgrade	65	60	85	29	28	54	31	32	55	1.9	4.0	1.4
301260	Upgrade	65	60	85	42	42	64	48	49	72	5.6	6.6	7.2
301263	Upgrade	65	60	85	39	39	62	43	44	68	3.8	5.2	5.9
301269	Upgrade	65	60	85	38	37	62	41	42	66	3.1	5.1	4.2
301280	Upgrade	65	60	85	36	35	60	38	39	63	2.6	4.2	3.2
301281	Upgrade	65	60	85	37	36	60	41	42	66	4.4	5.9	5.8

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax
301282	Upgrade	65	60	85	31	30	57	32	33	56	0.7	3.0	-1.2
301283	Upgrade	65	60	85	33	32	58	32	33	57	-1.3	1.3	-1.1
301284	Upgrade	65	60	85	38	37	62	42	43	66	3.4	5.3	4.0
301293	Upgrade	65	60	85	36	36	60	40	41	64	4.1	5.7	4.8
301294	Upgrade	65	60	85	33	32	58	33	34	58	0.3	2.7	-0.3
301297	Upgrade	65	60	85	27	26	51	30	32	55	3.2	5.2	4.4
301298	Upgrade	65	60	85	39	39	62	42	43	67	2.8	4.2	4.7
301300	Upgrade	65	60	85	32	31	59	34	35	58	1.5	3.7	-0.3
301301	Upgrade	65	60	85	24	24	44	29	30	54	5.6	6.8	9.2
301302	Upgrade	65	60	85	38	37	61	41	42	65	3.2	5.0	4.6
301308	Upgrade	65	60	85	38	37	61	41	43	66	3.8	5.6	5.0
301309	Upgrade	65	60	85	31	30	57	32	33	57	1.0	3.3	-0.2
301310	Upgrade	65	60	85	30	29	55	32	33	57	1.8	3.9	1.5
301313	Upgrade	65	60	85	30	28	54	32	33	56	2.0	4.3	1.8
301314	Upgrade	65	60	85	37	37	60	41	42	65	3.3	4.7	5.4
301317	Upgrade	65	60	85	36	36	60	40	41	65	3.9	5.0	4.7
301318	Upgrade	65	60	85	30	28	54	31	32	56	1.7	3.9	1.4
301320	Upgrade	65	60	85	31	30	56	32	33	56	1.4	3.7	0.3
301321	Upgrade	65	60	85	37	37	60	41	41	65	3.2	4.7	4.4
301324	Upgrade	65	60	85	40	40	63	44	45	69	4.1	5.2	5.9
301326	Upgrade	65	60	85	29	28	55	30	31	54	0.8	3.1	-0.6
301329	Upgrade	65	60	85	38	38	61	42	43	67	3.8	5.1	5.7
301335	Upgrade	65	60	85	33	32	59	34	35	59	1.1	3.4	0.1
301336	Upgrade	65	60	85	42	41	64	47	48	70	5.0	6.1	6.4
301337	Upgrade	65	60	85	50	50	72	38	39	63	-11.1	-10.4	-8.8
301338	Upgrade	65	60	85	34	34	57	38	39	62	3.1	4.7	4.8
301344	Upgrade	65	60	85	32	31	57	34	35	58	1.9	4.1	0.4
301347	Upgrade	65	60	85	29	28	54	32	33	56	2.7	4.8	2.3
301348	Upgrade	65	60	85	27	26	51	31	32	55	3.8	5.5	4.0
301349	Upgrade	65	60	85	33	31	58	33	34	58	0.8	3.2	-0.3
301353	Upgrade	65	60	85	33	31	57	32	33	57	-0.6	2.0	-0.3
301357	Upgrade	65	60	85	34	32	58	33	34	58	-0.7	1.8	0.0
301359	Upgrade	65	60	85	29	28	56	31	32	55	1.5	3.7	-0.5
301365	Upgrade	65	60	85	36	36	59	40	41	65	3.9	5.8	5.6
301370	Upgrade	65	60	85	37	36	59	41	42	66	4.2	5.8	6.7
301374	Upgrade	65	60	85	39	38	62	43	44	67	3.8	5.7	5.2
301376	Upgrade	65	60	85	38	38	62	40	41	64	1.8	3.6	1.8
301378	Upgrade	65	60	85	28	27	53	31	32	56	2.6	4.7	2.7
301379	Upgrade	65	60	85	37	36	59	40	41	64	3.3	4.9	4.7
301380	Upgrade	65	60	85	39	39	63	44	45	69	4.8	5.7	5.8
301384	Upgrade	65	60	85	36	36	60	40	41	65	4.8	5.7	5.0
301385	Upgrade	65	60	85	31	30	56	33	34	57	1.9	4.0	0.8
301386	Upgrade	65	60	85	33	31	58	34	35	58	0.8	3.2	-0.4
301388	Upgrade	65	60	85	39	39	62	43	44	68	3.9	5.6	5.6
301389	Upgrade	65	60	85	36	36	59	40	42	65	4.0	5.7	6.1
301390	Upgrade	65	60	85	33	31	57	33	34	57	0.0	2.6	0.0
301393	Upgrade	65	60	85	37	37	61	42	43	66	4.1	5.7	5.3
301399	Upgrade	65	60	85	38	37	61	41	42	66	3.2	5.1	4.6
301402	Upgrade	65	60	85	46	46	70	42	43	66	-4.2	-3.5	-4.0
301403	Upgrade	65	60	85	37	36	61	41	42	65	3.4	5.3	4.1
301404	Upgrade	65	60	85	39	39	63	44	45	69	4.4	5.5	6.0



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
301406	Upgrade	65	60	85	34	34	57	38	39	63	3.7	4.9	5.2
301409	Upgrade	65	60	85	28	27	53	31	32	55	3.1	5.1	2.1
301413	Upgrade	65	60	85	34	32	58	35	36	59	1.4	3.7	1.5
301414	Upgrade	65	60	85	42	42	64	48	49	71	5.4	6.4	7.4
301418	Upgrade	65	60	85	48	48	71	42	43	67	-5.4	-4.7	-4.3
301419	Upgrade	65	60	85	39	39	63	44	45	69	4.8	5.8	5.9
301421	Upgrade	65	60	85	37	36	61	40	41	64	3.0	4.7	3.8
301423	Upgrade	65	60	85	30	29	56	30	31	55	0.4	2.8	-0.5
301426	Upgrade	65	60	85	49	50	72	42	43	67	-7.2	-6.6	-5.0
301429	Upgrade	65	60	85	30	29	54	31	32	56	0.8	3.2	1.6
301431	Upgrade	65	60	85	38	37	60	40	41	65	2.7	4.3	4.2
301433	Upgrade	65	60	85	34	32	59	33	34	58	-0.7	1.8	-1.0
301436	Upgrade	65	60	85	42	42	64	47	48	70	5.0	5.9	6.4
301438	Upgrade	65	60	85	33	32	57	33	34	57	-0.2	2.3	0.2
301439	Upgrade	65	60	85	36	36	58	40	41	64	3.9	5.6	6.0
301440	Upgrade	65	60	85	39	38	63	43	44	67	3.7	5.6	4.9
301444	Upgrade	65	60	85	37	37	61	41	42	66	3.7	5.4	4.8
301445	Upgrade	65	60	85	48	49	71	34	35	59	-14.1	-13.4	-12.5
301449	Upgrade	65	60	85	39	39	62	43	44	68	3.9	4.9	5.3
301452	Upgrade	65	60	85	34	34	58	38	39	63	4.5	5.5	5.2
301455	Upgrade	65	60	85	41	41	64	45	46	70	4.3	5.5	5.7
301456	Upgrade	65	60	85	38	37	61	42	43	67	4.3	6.0	6.1
301457	Upgrade	65	60	85	39	38	62	43	44	67	3.9	5.6	5.2
301458	Upgrade	65	60	85	32	31	57	32	33	56	0.0	2.5	-0.4
301459	Upgrade	65	60	85	37	37	61	42	43	67	4.4	5.6	6.0
301460	Upgrade	65	60	85	37	36	60	40	41	65	3.1	4.5	4.8
301465	Upgrade	65	60	85	37	37	60	41	42	66	3.6	5.3	5.4
301472	Upgrade	65	60	85	29	28	54	30	31	55	1.4	3.6	0.5
301473	Upgrade	65	60	85	50	50	73	39	40	63	-10.9	-10.2	-9.7
301475	Upgrade	65	60	85	32	30	56	33	34	56	1.0	3.3	0.4
301479	Upgrade	65	60	85	49	50	73	44	45	69	-5.1	-4.4	-4.4
301480	Upgrade	65	60	85	39	39	62	42	43	66	2.3	3.9	4.1
301482	Upgrade	65	60	85	33	32	58	35	36	59	1.4	3.6	1.5
301485	Upgrade	65	60	85	36	35	59	39	40	63	3.4	5.0	4.3
301486	Upgrade	65	60	85	36	35	60	40	41	64	3.4	5.3	3.6
301489	Upgrade	65	60	85	28	27	53	31	32	55	3.0	5.0	2.5
301494	Upgrade	65	60	85	29	27	54	30	31	55	1.9	4.1	1.0
301495	Upgrade	65	60	85	31	30	57	33	34	56	1.3	3.6	-0.7
301496	Upgrade	65	60	85	35	35	59	40	41	64	4.3	5.3	5.2
301500	Upgrade	65	60	85	37	37	61	41	42	66	4.1	5.7	5.3
301502	Upgrade	65	60	85	30	29	56	31	32	55	0.7	3.0	-1.3
301504	Upgrade	65	60	85	40	40	64	45	46	70	4.9	6.0	6.0
301506	Upgrade	65	60	85	35	34	58	38	39	63	3.3	4.6	4.7
301507	Upgrade	65	60	85	36	35	58	40	41	64	3.8	5.6	5.9
301513	Upgrade	65	60	85	36	36	60	41	42	66	4.7	5.6	5.4
301516	Upgrade	65	60	85	35	35	60	37	39	61	2.1	4.0	1.9
301517	Upgrade	65	60	85	30	29	54	34	35	58	3.8	5.6	3.7
301522	Upgrade	65	60	85	36	36	58	40	41	63	3.5	5.0	5.8
301523	Upgrade	65	60	85	31	30	55	32	33	56	0.6	3.0	0.4
301526	Upgrade	65	60	85	39	38	62	42	43	67	3.8	5.5	5.0
301532	Upgrade	65	60	85	33	32	58	35	36	59	2.5	4.6	1.5

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax
301533	Upgrade	65	60	85	38	37	62	41	42	66	3.3	5.1	3.7
301535	Upgrade	65	60	85	38	37	61	42	43	67	4.3	5.9	5.5
301537	Upgrade	65	60	85	30	28	55	32	33	56	2.3	4.5	1.6
301540	Upgrade	65	60	85	31	30	55	33	34	57	1.7	3.9	1.6
301543	Upgrade	65	60	85	38	37	61	40	41	64	1.8	3.6	3.4
301545	Upgrade	65	60	85	28	27	53	32	33	56	3.7	5.6	2.9
301546	Upgrade	65	60	85	48	49	73	42	43	66	-6.7	-6.0	-6.5
301550	Upgrade	65	60	85	36	36	59	41	42	65	4.7	5.7	6.1
301552	Upgrade	65	60	85	36	35	60	40	41	64	3.8	5.6	4.0
301555	Upgrade	65	60	85	33	32	58	34	36	59	1.5	3.8	1.0
301556	Upgrade	65	60	85	38	37	61	41	42	66	3.4	5.3	4.8
301560	Upgrade	65	60	85	40	40	63	45	46	69	4.9	5.8	5.9
301561	Upgrade	65	60	85	39	39	63	44	45	69	4.5	5.5	5.4
301562	Upgrade	65	60	85	33	31	57	33	34	58	0.7	3.1	0.5
301563	Upgrade	65	60	85	33	32	57	35	36	59	1.6	3.8	2.3
301565	Upgrade	65	60	85	30	29	56	33	34	58	2.4	4.4	1.8
301568	Upgrade	65	60	85	33	32	57	35	36	59	1.7	4.0	2.2
301573	Upgrade	65	60	85	37	36	59	40	41	65	3.6	5.1	6.2
301576	Upgrade	65	60	85	38	38	63	43	44	68	4.8	5.7	5.3
301578	Upgrade	65	60	85	40	40	62	44	45	69	4.3	5.4	6.3
301580	Upgrade	65	60	85	37	37	60	42	43	66	4.3	5.8	5.7
301584	Upgrade	65	60	85	33	31	58	33	34	57	0.2	2.7	-0.4
301592	Upgrade	65	60	85	36	36	61	38	39	62	1.8	3.6	1.3
301594	Upgrade	65	60	85	31	30	55	33	34	57	2.3	4.4	1.9
301596	Upgrade	65	60	85	39	38	62	43	44	67	4.0	5.8	4.8
301599	Upgrade	65	60	85	37	36	61	40	41	65	3.1	5.0	4.0
301604	Upgrade	65	60	85	31	30	55	34	35	58	2.6	4.7	3.5
301608	Upgrade	65	60	85	40	40	64	45	46	70	4.6	5.8	5.8
301609	Upgrade	65	60	85	37	36	61	38	39	62	1.4	3.7	1.8
301612	Upgrade	65	60	85	37	37	62	41	42	66	4.1	5.0	4.1
301614	Upgrade	65	60	85	37	37	61	41	42	65	3.3	5.2	4.1
301616	Upgrade	65	60	85	38	37	61	40	41	65	2.7	4.7	3.7
301617	Upgrade	65	60	85	39	38	63	42	43	67	3.3	5.2	3.9
301620	Upgrade	65	60	85	41	41	66	45	46	70	4.4	5.2	4.6
301622	Upgrade	65	60	85	47	47	70	44	45	68	-3.2	-2.5	-1.8
301623	Upgrade	65	60	85	31	30	56	32	33	57	0.3	2.7	0.1
301624	Upgrade	65	60	85	38	38	62	42	43	67	3.7	4.9	5.0
301626	Upgrade	65	60	85	38	38	62	42	43	67	4.2	5.4	5.1
301629	Upgrade	65	60	85	37	36	59	41	42	65	3.8	5.5	6.3
301634	Upgrade	65	60	85	31	30	56	33	34	57	1.9	4.1	1.8
301636	Upgrade	65	60	85	38	38	61	43	44	67	4.5	5.7	6.4
301638	Upgrade	65	60	85	37	37	60	41	42	66	3.7	5.4	5.8
301639	Upgrade	65	60	85	33	32	57	33	34	57	-0.3	2.2	-0.3
301643	Upgrade	65	60	85	38	37	61	42	43	66	3.5	5.2	4.8
301645	Upgrade	65	60	85	35	33	59	36	37	61	1.5	3.8	1.4
301646	Upgrade	65	60	85	37	36	61	40	41	64	3.0	4.9	3.1
301647	Upgrade	65	60	85	33	32	59	34	35	58	0.7	3.1	-0.1
301649	Upgrade	65	60	85	32	31	58	34	35	58	1.8	3.9	0.6
301650	Upgrade	65	60	85	40	40	63	45	46	69	5.0	6.0	6.2
301654	Upgrade	65	60	85	30	29	55	33	34	57	2.9	4.9	2.0
301655	Upgrade	65	60	85	37	36	61	40	41	64	2.8	4.8	3.6



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA				Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	
301659	Upgrade	65	60	85	34	33	58	35	36	59	1.4	3.7	1.6	
301661	Upgrade	65	60	85	38	37	63	41	42	64	2.3	4.4	1.7	
301662	Upgrade	65	60	85	37	36	60	39	41	65	2.5	4.1	4.6	
301666	Upgrade	65	60	85	35	34	59	37	38	61	1.8	4.0	1.7	
301669	Upgrade	65	60	85	47	48	70	44	45	69	-3.1	-2.4	-1.5	
301672	Upgrade	65	60	85	39	39	63	43	44	68	4.1	5.9	4.9	
301673	Upgrade	65	60	85	35	34	59	38	39	62	2.9	4.8	3.0	
301676	Upgrade	65	60	85	39	39	62	44	45	68	4.5	6.1	6.0	
301677	Upgrade	65	60	85	38	38	62	43	44	68	4.3	5.7	5.8	
301681	Upgrade	65	60	85	34	33	59	36	37	60	1.9	4.1	0.9	
301682	Upgrade	65	60	85	40	40	63	45	46	69	5.2	6.0	6.1	
301685	Upgrade	65	60	85	31	30	56	32	33	57	1.5	3.8	0.7	
301686	Upgrade	65	60	85	39	38	64	42	43	66	2.3	4.5	2.1	
301690	Upgrade	65	60	85	31	30	57	31	32	56	0.3	2.7	-0.5	
301691	Upgrade	65	60	85	37	36	62	39	40	63	1.8	4.0	1.5	
301692	Upgrade	65	60	85	40	39	64	43	44	67	3.3	5.1	3.5	
301693	Upgrade	65	60	85	42	42	66	46	47	71	3.9	4.8	4.8	
301694	Upgrade	65	60	85	38	38	62	40	41	64	1.2	3.1	2.0	
301695	Upgrade	65	60	85	45	45	69	40	41	65	-4.5	-3.8	-4.3	
301697	Upgrade	65	60	85	40	40	64	45	46	70	4.8	5.9	5.9	
301698	Upgrade	65	60	85	33	32	57	35	36	59	1.4	3.7	1.6	
301700	Upgrade	65	60	85	40	40	64	45	46	69	4.8	5.7	5.8	
301701	Upgrade	65	60	85	38	37	61	41	42	65	2.6	4.6	4.0	
301703	Upgrade	65	60	85	34	33	58	35	36	59	0.7	3.1	1.3	
301707	Upgrade	65	60	85	37	37	61	41	42	66	3.6	5.3	4.6	
301708	Upgrade	65	60	85	38	37	60	42	43	67	4.4	6.0	6.5	
301710	Upgrade	65	60	85	30	29	55	32	33	57	2.5	4.7	2.0	
301717	Upgrade	65	60	85	37	36	59	42	42	66	4.6	6.0	6.7	
301722	Upgrade	65	60	85	34	32	58	35	36	59	1.2	3.5	0.8	
301724	Upgrade	65	60	85	37	36	61	40	41	65	3.0	4.8	3.7	
301727	Upgrade	65	60	85	40	39	63	43	44	68	3.7	5.5	4.7	
301728	Upgrade	65	60	85	40	40	63	45	46	70	5.0	6.0	6.5	
301732	Upgrade	65	60	85	39	39	63	43	44	68	3.7	4.8	4.4	
301733	Upgrade	65	60	85	40	40	64	44	46	69	4.7	5.7	5.7	
301736	Upgrade	65	60	85	25	25	49	31	32	56	5.9	7.1	7.1	
301738	Upgrade	65	60	85	34	34	56	39	40	63	5.0	6.0	6.4	
301744	Upgrade	65	60	85	46	46	71	42	43	67	-4.1	-3.4	-4.5	
301748	Upgrade	65	60	85	38	37	61	41	42	65	2.8	4.3	4.2	
301750	Upgrade	65	60	85	39	39	63	44	45	69	4.7	6.3	5.8	
301753	Upgrade	65	60	85	39	38	63	41	42	66	2.0	4.2	3.1	
301754	Upgrade	65	60	85	41	41	64	46	47	71	4.7	5.9	6.3	
301755	Upgrade	65	60	85	37	37	60	40	41	65	2.6	4.1	4.7	
301759	Upgrade	65	60	85	39	38	62	43	44	67	4.2	5.8	5.9	
301760	Upgrade	65	60	85	33	32	58	34	35	58	1.1	3.4	-0.4	
301774	Upgrade	65	60	85	34	33	58	35	36	59	1.0	3.3	1.0	
301777	Upgrade	65	60	85	38	37	61	41	42	65	3.2	5.1	4.6	
301779	Upgrade	65	60	85	40	39	63	44	45	69	4.3	5.9	6.0	
301780	Upgrade	65	60	85	38	37	62	41	42	65	3.3	5.3	3.3	
301783	Upgrade	65	60	85	39	38	63	41	42	65	2.4	4.4	2.2	
301784	Upgrade	65	60	85	41	42	66	46	47	71	4.6	5.6	5.4	
301788	Upgrade	65	60	85	42	42	65	46	47	71	4.2	5.3	5.5	

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax
301789	Upgrade	65	60	85	38	37	61	41	42	66	3.3	5.2	4.7
301792	Upgrade	65	60	85	40	40	64	45	46	70	4.5	5.6	5.9
301793	Upgrade	65	60	85	37	36	59	40	41	65	3.3	5.1	5.2
301795	Upgrade	65	60	85	38	37	62	40	41	64	2.4	4.3	2.5
301804	Upgrade	65	60	85	33	32	57	36	37	60	3.2	5.1	2.7
301806	Upgrade	65	60	85	38	36	61	39	40	63	1.6	3.9	2.3
301807	Upgrade	65	60	85	34	33	58	35	36	59	0.7	3.1	0.9
301808	Upgrade	65	60	85	38	37	61	42	43	66	3.8	5.4	5.3
301809	Upgrade	65	60	85	39	39	63	44	45	68	4.4	6.0	5.2
301810	Upgrade	65	60	85	39	39	61	43	44	68	4.1	5.5	6.6
301811	Upgrade	65	60	85	31	31	56	35	36	59	3.4	5.2	2.8
301815	Upgrade	65	60	85	37	36	59	40	41	65	3.4	5.2	5.3
301817	Upgrade	65	60	85	47	47	72	42	43	66	-5.3	-4.6	-5.5
301821	Upgrade	65	60	85	38	37	62	40	41	64	2.7	4.5	1.8
301822	Upgrade	65	60	85	38	37	60	42	43	67	4.2	5.8	6.7
301836	Upgrade	65	60	85	35	34	60	36	37	61	1.2	3.5	0.8
301837	Upgrade	65	60	85	40	41	64	45	46	70	4.8	5.6	5.5
301838	Upgrade	65	60	85	44	45	69	43	44	67	-1.6	-0.9	-2.3
301839	Upgrade	65	60	85	36	34	60	36	37	61	0.6	3.1	1.0
301840	Upgrade	65	60	85	39	39	61	43	44	67	3.9	5.0	5.9
301842	Upgrade	65	60	85	35	34	59	37	38	61	2.1	4.2	2.5
301843	Upgrade	65	60	85	28	27	50	33	34	57	5.3	6.6	7.2
301845	Upgrade	65	60	85	37	36	61	38	39	62	0.8	3.2	1.4
301847	Upgrade	65	60	85	32	30	58	32	34	57	0.9	3.3	-0.9
301855	Upgrade	65	60	85	39	38	62	43	44	67	3.8	5.6	5.3
301856	Upgrade	65	60	85	39	39	63	43	44	67	3.1	5.0	4.0
301857	Upgrade	65	60	85	34	33	59	34	35	58	0.4	2.4	-1.2
301859	Upgrade	65	60	85	38	37	62	41	42	65	2.8	4.9	3.9
301860	Upgrade	65	60	85	38	37	61	41	42	65	3.4	5.1	4.0
301862	Upgrade	65	60	85	36	35	60	39	40	64	3.0	5.0	4.1
301865	Upgrade	65	60	85	38	38	61	43	44	68	5.0	6.3	7.1
301866	Upgrade	65	60	85	37	36	62	40	41	64	2.6	4.7	2.6
301867	Upgrade	65	60	85	38	37	62	41	42	65	2.9	4.8	3.1
301870	Upgrade	65	60	85	40	39	63	44	45	69	4.0	5.8	5.8
301871	Upgrade	65	60	85	47	48	71	37	38	62	-10.1	-9.5	-9.0
301874	Upgrade	65	60	85	38	37	62	41	42	65	3.1	5.0	2.7
301877	Upgrade	65	60	85	41	41	65	44	45	69	3.3	4.5	4.2
301878	Upgrade	65	60	85	36	35	61	38	39	62	1.6	3.9	1.2
301885	Upgrade	65	60	85	34	33	58	37	38	60	2.8	4.9	2.1
301892	Upgrade	65	60	85	38	37	62	42	43	66	3.4	5.1	4.5
301893	Upgrade	65	60	85	47	47	70	32	33	56	-15.0	-14.3	-13.6
301894	Upgrade	65	60	85	38	37	62	41	42	66	3.1	5.1	3.6
301899	Upgrade	65	60	85	39	38	62	42	43	67	3.1	5.0	5.1
301901	Upgrade	65	60	85	40	39	63	44	45	68	3.7	5.5	4.5
301911	Upgrade	65	60	85	35	34	58	38	39	63	3.3	5.3	4.3
301912	Upgrade	65	60	85	35	34	60	37	38	60	1.7	3.9	0.0
301918	Upgrade	65	60	85	43	43	67	30	31	54	-13.0	-12.2	-13.1
301919	Upgrade	65	60	85	46	46	71	40	41	64	-6.1	-5.4	-6.5
301924	Upgrade	65	60	85	40	40	64	44	45	69	4.2	5.3	4.9
301928	Upgrade	65	60	85	42	42	66	47	48	71	4.2	5.3	5.8
301929	Upgrade	65	60	85	41	41	65	46	47	70	4.9	5.8	5.7



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
301931	Upgrade	65	60	85	35	34	58	38	39	62	2.9	4.9	3.6
301932	Upgrade	65	60	85	40	39	64	42	43	65	2.0	4.0	1.2
301933	Upgrade	65	60	85	41	41	65	45	46	69	4.0	5.0	4.6
301934	Upgrade	65	60	85	35	34	58	38	39	63	2.7	4.8	4.2
301938	Upgrade	65	60	85	40	40	64	43	45	68	3.5	4.7	4.3
301940	Upgrade	65	60	85	39	38	62	43	44	67	3.9	5.7	5.1
301941	Upgrade	65	60	85	39	38	64	42	43	66	2.9	4.9	2.7
301947	Upgrade	65	60	85	39	38	62	42	43	67	3.7	5.6	4.8
301953	Upgrade	65	60	85	39	38	63	41	42	65	2.2	4.3	2.0
301958	Upgrade	65	60	85	46	46	70	40	41	65	-6.2	-5.5	-5.1
301959	Upgrade	65	60	85	35	34	58	38	39	62	2.8	4.8	3.8
301963	Upgrade	65	60	85	40	39	64	44	45	68	3.5	5.3	4.4
301965	Upgrade	65	60	85	39	38	63	43	44	67	3.4	5.2	4.1
301967	Upgrade	65	60	85	36	34	60	37	38	62	1.5	3.8	1.7
301968	Upgrade	65	60	85	37	36	61	39	40	63	2.1	4.2	2.8
301973	Upgrade	65	60	85	38	37	62	40	41	65	2.1	4.1	2.9
301980	Upgrade	65	60	85	45	45	67	50	51	75	5.3	6.1	7.3
301983	Upgrade	65	60	85	44	45	67	50	51	74	5.3	6.1	7.2
301985	Upgrade	65	60	85	41	41	66	46	47	71	4.9	5.8	5.4
301986	Upgrade	65	60	85	40	39	64	43	44	68	3.5	5.3	3.8
301989	Upgrade	65	60	85	35	34	58	37	38	62	2.5	4.6	3.7
301991	Upgrade	65	60	85	38	37	62	41	42	66	3.2	5.0	4.6
301992	Upgrade	65	60	85	46	46	69	43	44	67	-2.8	-2.1	-1.5
301997	Upgrade	65	60	85	38	38	61	42	43	67	4.4	5.5	5.8
301998	Upgrade	65	60	85	39	39	63	42	43	66	2.5	4.3	3.1
302003	Upgrade	65	60	85	37	36	61	41	42	65	3.9	5.7	4.2
302006	Upgrade	65	60	85	35	34	60	37	38	62	1.6	3.9	1.9
302009	Upgrade	65	60	85	38	37	62	40	41	64	1.8	4.1	2.4
302012	Upgrade	65	60	85	41	41	64	45	46	70	3.8	4.8	5.4
302015	Upgrade	65	60	85	38	38	61	42	43	67	4.0	5.3	5.4
302016	Upgrade	65	60	85	33	32	58	36	37	61	2.9	4.8	2.6
302017	Upgrade	65	60	85	38	37	62	41	42	65	2.8	4.9	3.0
302019	Upgrade	65	60	85	42	42	65	46	47	70	4.0	5.1	5.4
302020	Upgrade	65	60	85	41	41	65	45	46	70	4.3	5.3	5.0
302021	Upgrade	65	60	85	46	46	71	41	42	65	-4.9	-4.2	-5.5
302022	Upgrade	65	60	85	41	40	63	45	46	69	4.0	5.3	6.1
302023	Upgrade	65	60	85	38	37	62	40	41	64	1.6	3.8	2.5
302024	Upgrade	65	60	85	43	43	67	48	49	72	4.3	5.4	5.5
302025	Upgrade	65	60	85	39	38	63	42	43	66	2.7	4.6	2.9
302026	Upgrade	65	60	85	34	33	58	36	37	61	2.0	4.1	2.8
302027	Upgrade	65	60	85	36	35	59	38	39	62	2.4	4.5	3.1
302029	Upgrade	65	60	85	46	46	71	43	44	67	-3.4	-2.7	-3.3
302031	Upgrade	65	60	85	39	38	64	42	43	66	2.4	4.5	2.1
302034	Upgrade	65	60	85	38	38	61	42	43	66	3.9	5.5	5.2
302035	Upgrade	65	60	85	39	38	63	42	43	66	3.0	5.0	3.2
302038	Upgrade	65	60	85	40	40	64	44	45	69	3.6	4.7	4.5
302042	Upgrade	65	60	85	39	38	64	42	43	66	2.1	4.3	2.4
302043	Upgrade	65	60	85	41	41	65	46	47	71	4.9	5.9	5.6
302044	Upgrade	65	60	85	34	33	58	37	38	61	2.5	4.5	3.0
302047	Upgrade	65	60	85	41	40	64	42	43	66	1.7	3.4	2.4
302052	Upgrade	65	60	85	39	38	62	41	42	65	2.0	4.1	3.0

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA				Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	
302054	Upgrade	65	60	85	33	32	58	36	37	61	2.6	4.7	2.7	
302062	Upgrade	65	60	85	37	37	60	41	42	65	3.4	5.2	4.9	
302064	Upgrade	65	60	85	41	40	65	44	45	68	3.2	5.0	3.6	
302065	Upgrade	65	60	85	41	40	63	44	45	69	3.7	5.0	5.9	
302066	Upgrade	65	60	85	42	42	65	46	47	70	3.8	5.0	5.5	
302067	Upgrade	65	60	85	39	39	62	42	43	66	2.8	4.2	4.5	
302068	Upgrade	65	60	85	33	32	58	35	36	60	2.1	4.2	2.1	
302070	Upgrade	65	60	85	39	38	61	42	43	66	3.3	5.2	5.0	
302071	Upgrade	65	60	85	39	39	62	44	45	68	4.8	6.4	6.8	
302072	Upgrade	65	60	85	38	38	61	42	43	66	3.7	5.5	5.6	
302074	Upgrade	65	60	85	38	37	62	41	42	66	2.9	4.7	4.0	
302083	Upgrade	65	60	85	37	36	62	40	41	64	2.5	4.6	2.2	
302088	Upgrade	65	60	85	33	32	58	34	35	59	1.4	3.7	0.9	
302091	Upgrade	65	60	85	49	49	72	54	55	78	4.4	5.1	5.7	
302094	Upgrade	65	60	85	39	38	64	40	41	64	1.1	3.4	0.0	
302095	Upgrade	65	60	85	37	36	60	40	41	64	3.4	5.4	4.4	
302102	Upgrade	65	60	85	41	41	64	44	45	69	3.3	4.7	4.8	
302103	Upgrade	65	60	85	32	31	58	34	35	58	1.8	4.0	0.1	
302106	Upgrade	65	60	85	45	46	70	43	44	67	-2.6	-1.8	-2.4	
302107	Upgrade	65	60	85	40	39	64	42	43	67	2.1	4.2	2.5	
302109	Upgrade	65	60	85	37	36	61	41	42	65	4.0	5.7	4.1	
302111	Upgrade	65	60	85	39	38	63	41	42	65	2.5	4.5	1.7	
302112	Upgrade	65	60	85	39	39	63	43	44	68	4.2	5.1	4.8	
302121	Upgrade	65	60	85	36	35	59	40	41	64	3.9	5.7	5.6	
302122	Upgrade	65	60	85	40	40	63	43	44	68	3.3	4.5	4.8	
302123	Upgrade	65	60	85	39	39	61	42	43	67	3.1	4.6	5.6	
302124	Upgrade	65	60	85	40	39	64	43	44	67	2.8	4.8	2.9	
302125	Upgrade	65	60	85	40	40	64	44	45	68	3.5	4.6	4.5	
302129	Upgrade	65	60	85	45	46	70	42	43	67	-3.3	-2.6	-3.7	
302130	Upgrade	65	60	85	38	37	62	40	41	64	2.3	4.3	2.2	
302135	Upgrade	65	60	85	38	37	62	41	42	65	2.6	4.7	2.8	
302139	Upgrade	65	60	85	36	35	59	40	41	64	3.6	5.5	5.2	
302144	Upgrade	65	60	85	40	39	64	43	44	67	2.5	4.7	2.6	
302145	Upgrade	65	60	85	38	37	62	41	42	66	3.1	5.0	4.2	
302148	Upgrade	65	60	85	39	38	63	43	44	68	4.6	6.2	5.2	
302149	Upgrade	65	60	85	38	37	61	41	42	65	2.8	4.9	3.8	
302150	Upgrade	65	60	85	39	39	63	43	44	68	3.8	4.9	4.6	
302152	Upgrade	65	60	85	32	31	58	34	35	58	2.0	4.2	0.1	
302154	Upgrade	65	60	85	35	34	58	38	39	63	3.1	5.0	4.5	
302155	Upgrade	65	60	85	49	49	72	31	32	54	-17.9	-17.2	-17.2	
302160	Upgrade	65	60	85	37	37	60	41	42	66	3.9	5.5	5.4	
302163	Upgrade	65	60	85	39	39	63	43	44	67	3.5	4.6	4.7	
302166	Upgrade	65	60	85	36	35	59	39	40	63	3.3	5.3	4.8	
302167	Upgrade	65	60	85	35	34	58	38	39	63	3.2	5.1	4.4	
302169	Upgrade	65	60	85	46	47	70	38	39	63	-7.9	-7.2	-6.9	
302170	Upgrade	65	60	85	39	38	63	42	43	67	2.7	4.7	3.3	
302171	Upgrade	65	60	85	41	40	64	44	45	69	3.4	4.7	5.1	
302172	Upgrade	65	60	85	47	48	71	32	33	55	-15.6	-14.8	-15.3	
302176	Upgrade	65	60	85	38	37	61	41	42	64	2.9	4.8	3.0	
302183	Upgrade	65	60	85	36	35	57	40	41	64	4.3	5.6	7.3	
302184	Upgrade	65	60	85	38	36	61	40	41	64	2.7	4.8	2.8	



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax
302185	Upgrade	65	60	85	39	38	62	43	44	67	3.7	5.5	4.9
302186	Upgrade	65	60	85	41	40	65	44	45	69	3.3	5.1	4.0
302189	Upgrade	65	60	85	45	46	69	30	31	54	-15.1	-14.4	-15.0
302192	Upgrade	65	60	85	46	46	68	42	43	67	-3.5	-2.7	-1.5
302196	Upgrade	65	60	85	40	40	63	44	45	69	3.9	5.2	5.5
302197	Upgrade	65	60	85	37	36	61	40	41	64	3.0	4.9	3.3
302198	Upgrade	65	60	85	34	33	58	37	38	61	2.4	4.4	2.7
302199	Upgrade	65	60	85	45	46	70	41	42	66	-3.9	-3.2	-4.3
302200	Upgrade	65	60	85	31	30	54	35	36	60	4.7	6.2	5.6
302202	Upgrade	65	60	85	38	38	62	43	44	67	4.7	6.3	5.3
302203	Upgrade	65	60	85	16	16	40	17	18	41	1.2	2.0	1.1
302204	Upgrade	65	60	85	38	37	62	40	41	65	2.1	4.0	2.3
302205	Upgrade	65	60	85	40	40	64	44	45	68	4.1	5.0	4.6
302207	Upgrade	65	60	85	39	38	63	41	42	65	2.1	4.3	2.4
302208	Upgrade	65	60	85	49	49	72	31	32	55	-17.7	-17.1	-17.0
302209	Upgrade	65	60	85	39	38	63	41	42	65	2.4	4.4	2.2
302211	Upgrade	65	60	85	38	37	61	41	42	65	3.5	5.3	4.8
302213	Upgrade	65	60	85	38	37	61	41	42	65	3.2	5.0	4.9
302214	Upgrade	65	60	85	40	39	63	43	44	68	3.7	4.9	5.3
302215	Upgrade	65	60	85	38	38	60	42	43	66	4.4	5.4	6.0
302218	Upgrade	65	60	85	40	39	63	43	44	68	3.8	5.0	5.5
302219	Upgrade	65	60	85	37	36	61	41	42	65	3.3	5.3	3.4
302221	Upgrade	65	60	85	35	34	61	36	37	60	0.8	3.1	-0.7
302225	Upgrade	65	60	85	31	30	57	31	32	56	-0.1	2.4	-1.3
302229	Upgrade	65	60	85	39	38	62	42	43	67	3.1	4.7	4.6
302233	Upgrade	65	60	85	33	32	59	34	35	58	1.4	3.7	-1.0
302236	Upgrade	65	60	85	38	37	62	42	43	66	3.6	5.4	3.9
302237	Upgrade	65	60	85	38	38	62	43	44	68	4.8	5.8	5.9
302242	Upgrade	65	60	85	39	38	62	42	43	67	3.5	5.5	4.3
302245	Upgrade	65	60	85	39	38	63	42	43	66	3.1	5.1	3.4
302246	Upgrade	65	60	85	40	39	64	41	42	66	1.2	3.4	1.9
302249	Upgrade	65	60	85	41	41	64	44	45	67	2.8	4.4	3.7
302251	Upgrade	65	60	85	35	35	59	39	40	63	3.7	5.5	4.6
302252	Upgrade	65	60	85	41	40	63	44	45	68	2.9	4.6	5.0
302256	Upgrade	65	60	85	36	35	60	38	39	62	2.1	4.3	2.2
302260	Upgrade	65	60	85	40	40	64	43	44	68	3.8	4.8	4.4
302261	Upgrade	65	60	85	40	38	64	42	43	66	2.1	4.2	1.8
302262	Upgrade	65	60	85	41	40	64	45	46	70	4.5	6.1	5.7
302263	Upgrade	65	60	85	38	38	62	42	44	67	4.3	6.0	5.0
302269	Upgrade	65	60	85	39	38	62	42	43	66	3.0	5.1	4.1
302270	Upgrade	65	60	85	42	42	66	47	48	72	4.8	5.6	5.4
302275	Upgrade	65	60	85	38	38	61	42	43	66	3.5	5.2	4.7
302277	Upgrade	65	60	85	45	45	70	41	42	65	-4.5	-3.8	-5.0
302278	Upgrade	65	60	85	37	36	58	40	41	64	3.5	4.9	6.1
302279	Upgrade	65	60	85	37	36	61	41	42	65	3.6	5.5	4.2
302280	Upgrade	65	60	85	44	44	69	44	45	68	-0.1	0.6	-0.1
302284	Upgrade	65	60	85	41	41	63	46	47	70	4.4	6.0	7.1
302287	Upgrade	65	60	85	39	39	63	42	43	66	2.4	4.1	2.3
302288	Upgrade	65	60	85	37	36	59	41	42	65	4.1	5.8	6.1
302289	Upgrade	65	60	85	33	32	59	36	37	60	2.9	4.9	1.8
302291	Upgrade	65	60	85	45	45	68	43	44	68	-2.0	-1.3	-0.6

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
302293	Upgrade	65	60	85	32	31	58	34	35	58	1.2	3.5	-0.8
302295	Upgrade	65	60	85	40	39	62	42	43	67	2.6	4.2	4.9
302296	Upgrade	65	60	85	38	38	61	42	43	66	3.3	5.0	5.1
302299	Upgrade	65	60	85	47	47	69	40	41	64	-6.8	-6.1	-5.2
302301	Upgrade	65	60	85	39	38	63	41	42	66	2.8	4.7	2.7
302303	Upgrade	65	60	85	40	39	63	43	44	67	3.6	5.4	4.6
302305	Upgrade	65	60	85	61	61	86	44	45	68	-16.6	-15.8	-17.9
302306	Upgrade	65	60	85	38	37	63	41	42	65	2.2	4.2	1.7
302307	Upgrade	65	60	85	41	40	65	44	45	68	3.2	5.1	3.6
302309	Upgrade	65	60	85	35	34	60	38	39	62	2.3	4.3	2.0
302310	Upgrade	65	60	85	40	40	64	43	45	68	3.6	4.7	4.6
302313	Upgrade	65	60	85	40	40	63	44	45	68	3.4	4.9	5.2
302320	Upgrade	65	60	85	56	57	82	45	46	69	-11.5	-10.8	-13.1
302323	Upgrade	65	60	85	38	38	61	42	43	66	3.7	5.0	5.2
302324	Upgrade	65	60	85	40	40	63	44	45	68	3.5	4.8	5.3
302325	Upgrade	65	60	85	40	39	63	43	44	67	3.7	5.5	4.4
302327	Upgrade	65	60	85	40	40	63	43	45	68	3.3	4.8	5.3
302328	Upgrade	65	60	85	40	39	65	42	43	66	1.6	3.7	1.0
302329	Upgrade	65	60	85	38	38	60	42	43	66	3.6	5.0	6.2
302330	Upgrade	65	60	85	36	36	60	42	43	66	5.3	6.8	5.6
302335	Upgrade	65	60	85	30	29	56	30	31	55	-0.2	2.3	-0.7
302336	Upgrade	65	60	85	39	38	63	42	43	67	3.3	5.1	4.4
302337	Upgrade	65	60	85	41	40	65	45	46	69	3.9	5.5	4.4
302338	Upgrade	65	60	85	39	38	63	41	42	65	1.8	4.0	1.8
302339	Upgrade	65	60	85	34	33	59	37	38	61	3.7	5.6	2.4
302341	Upgrade	65	60	85	39	39	63	43	44	68	4.0	5.1	4.8
302342	Upgrade	65	60	85	41	40	64	44	45	69	3.6	5.4	5.1
302343	Upgrade	65	60	85	41	40	65	45	46	69	3.6	5.5	4.1
302344	Upgrade	65	60	85	37	37	59	41	42	65	3.9	5.3	6.6
302347	Upgrade	65	60	85	50	51	73	45	46	70	-5.3	-4.5	-3.6
302348	Upgrade	65	60	85	38	37	60	42	43	66	4.2	6.0	6.3
302356	Upgrade	65	60	85	36	35	61	39	40	64	3.3	5.2	2.6
302357	Upgrade	65	60	85	33	32	58	35	36	59	2.1	4.2	0.4
302362	Upgrade	65	60	85	37	36	59	41	42	65	4.1	5.9	5.9
302371	Upgrade	65	60	85	40	39	65	42	43	66	2.1	4.2	1.5
302372	Upgrade	65	60	85	39	38	63	42	43	66	2.7	4.7	3.0
302373	Upgrade	65	60	85	36	36	60	40	41	65	4.2	5.3	5.2
302374	Upgrade	65	60	85	39	38	62	42	43	67	3.7	5.6	4.4
302376	Upgrade	65	60	85	43	43	66	46	47	71	3.4	4.6	5.2
302377	Upgrade	65	60	85	42	41	64	46	47	69	3.8	5.2	5.7
302380	Upgrade	65	60	85	41	40	62	43	44	67	2.4	3.9	5.2
302386	Upgrade	65	60	85	43	42	66	45	46	69	2.7	4.3	3.3
302387	Upgrade	65	60	85	43	42	65	46	47	71	3.9	5.1	5.4
302388	Upgrade	65	60	85	46	47	69	36	37	59	-10.8	-10.1	-9.9
302394	Upgrade	65	60	85	40	40	64	43	44	68	3.1	4.9	3.5
302395	Upgrade	65	60	85	38	37	61	41	42	65	3.7	5.5	4.3
302398	Upgrade	65	60	85	33	32	59	35	36	60	2.2	4.3	0.8
302399	Upgrade	65	60	85	43	43	66	46	47	71	3.5	4.7	5.4
302400	Upgrade	65	60	85	33	32	59	36	37	60	2.5	4.5	0.9
302402	Upgrade	65	60	85	39	38	64	42	43	67	2.9	4.9	2.9
302403	Upgrade	65	60	85	37	36	62	40	41	64	3.1	5.1	2.5



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax
302405	Upgrade	65	60	85	38	37	60	40	41	65	2.6	4.1	5.1
302406	Upgrade	65	60	85	38	38	62	42	43	67	4.2	5.8	4.4
302410	Upgrade	65	60	85	42	41	64	45	46	69	3.4	4.8	4.4
302411	Upgrade	65	60	85	43	43	67	43	44	67	0.0	0.7	0.4
302412	Upgrade	65	60	85	40	39	62	43	44	67	3.1	4.5	4.9
302414	Upgrade	65	60	85	41	42	66	46	47	71	4.5	5.2	5.1
302416	Upgrade	65	60	85	39	38	62	42	43	66	3.2	5.3	4.3
302418	Upgrade	65	60	85	37	37	60	40	42	65	3.0	4.4	4.9
302422	Upgrade	65	60	85	40	39	64	43	44	67	3.4	5.4	3.8
302424	Upgrade	65	60	85	42	41	64	47	48	71	5.0	6.5	7.3
302426	Upgrade	65	60	85	45	45	70	43	44	68	-1.6	-0.8	-2.0
302432	Upgrade	65	60	85	44	44	69	44	45	68	0.1	0.8	-0.3
302433	Upgrade	65	60	85	46	47	68	41	42	65	-5.3	-4.5	-3.0
302434	Upgrade	65	60	85	40	39	64	43	44	67	3.0	5.0	3.6
302439	Upgrade	65	60	85	38	38	63	42	43	67	4.0	5.6	3.8
302443	Upgrade	65	60	85	40	39	63	43	44	67	3.4	5.3	3.9
302448	Upgrade	65	60	85	52	52	77	36	37	60	-16.2	-15.4	-16.4
302449	Upgrade	65	60	85	40	40	63	43	44	67	3.8	4.9	4.8
302450	Upgrade	65	60	85	42	42	66	43	44	68	1.6	2.3	2.0
302452	Upgrade	65	60	85	33	32	59	36	37	60	2.7	4.9	1.2
302453	Upgrade	65	60	85	38	37	62	41	42	65	2.9	5.0	3.2
302454	Upgrade	65	60	85	31	31	55	35	36	60	4.0	5.7	4.4
302455	Upgrade	65	60	85	40	40	63	44	45	68	3.9	5.1	5.3
302458	Upgrade	65	60	85	38	37	63	40	41	64	2.1	4.2	1.4
302460	Upgrade	65	60	85	42	42	67	47	48	71	4.3	5.3	4.7
302463	Upgrade	65	60	85	47	47	70	33	34	57	-13.8	-13.1	-13.3
302464	Upgrade	65	60	85	39	39	62	43	44	67	3.8	5.5	4.6
302465	Upgrade	65	60	85	43	42	68	45	46	69	2.0	4.1	1.5
302467	Upgrade	65	60	85	39	38	61	43	44	67	4.1	5.4	6.1
302470	Upgrade	65	60	85	32	31	59	33	34	57	0.2	2.6	-2.0
302473	Upgrade	65	60	85	43	43	65	47	48	70	4.1	5.7	4.8
302474	Upgrade	65	60	85	37	36	61	41	42	65	3.7	5.5	4.1
302477	Upgrade	65	60	85	38	37	60	41	42	65	3.8	5.6	5.5
302481	Upgrade	65	60	85	47	47	68	45	46	70	-1.4	-0.6	1.6
302482	Upgrade	65	60	85	44	44	69	45	46	69	0.6	1.3	0.0
302483	Upgrade	65	60	85	43	43	67	48	49	73	4.6	5.3	5.3
302484	Upgrade	65	60	85	38	37	61	40	41	65	2.1	4.2	3.3
302485	Upgrade	65	60	85	41	40	64	45	46	70	4.3	5.9	5.8
302487	Upgrade	65	60	85	39	38	63	42	43	66	2.6	4.7	2.9
302489	Upgrade	65	60	85	44	44	68	35	36	58	-8.4	-7.7	-10.1
302491	Upgrade	65	60	85	46	47	69	51	53	75	5.1	5.9	6.7
302494	Upgrade	65	60	85	36	35	60	38	39	62	2.6	4.6	2.0
302498	Upgrade	65	60	85	41	40	65	44	45	67	2.8	4.7	2.5
302499	Upgrade	65	60	85	35	35	60	40	41	65	5.3	6.0	5.0
302503	Upgrade	65	60	85	33	32	59	36	37	60	2.2	4.3	0.9
302508	Upgrade	65	60	85	39	38	62	43	44	67	4.1	5.6	5.8
302510	Upgrade	65	60	85	41	41	65	45	46	70	3.7	4.9	5.0
302512	Upgrade	65	60	85	40	40	63	44	45	69	4.5	5.4	5.3
302513	Upgrade	65	60	85	43	43	66	47	48	72	4.5	5.7	5.8
302517	Upgrade	65	60	85	41	40	63	44	45	68	3.4	4.7	4.8
302519	Upgrade	65	60	85	40	40	62	44	45	68	3.6	5.0	5.6

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
302521	Upgrade	65	60	85	39	38	63	42	43	66	2.7	4.7	2.9
302522	Upgrade	65	60	85	38	36	62	38	39	62	0.5	2.9	0.8
302525	Upgrade	65	60	85	35	34	59	39	40	62	3.4	5.2	2.7
302527	Upgrade	65	60	85	38	38	62	42	43	66	3.4	5.1	4.2
302529	Upgrade	65	60	85	39	38	64	42	43	65	2.3	4.4	1.2
302531	Upgrade	65	60	85	39	38	63	42	43	66	3.8	5.6	3.0
302532	Upgrade	65	60	85	42	42	65	45	46	69	2.5	4.1	4.3
302536	Upgrade	65	60	85	45	46	68	44	45	69	-1.1	-0.4	0.9
302537	Upgrade	65	60	85	40	41	64	36	37	60	-4.6	-4.0	-4.7
302540	Upgrade	65	60	85	45	44	71	47	48	72	1.9	4.0	0.9
302545	Upgrade	65	60	85	36	36	60	41	42	66	5.6	6.1	5.9
302555	Upgrade	65	60	85	39	38	61	43	44	67	4.2	5.9	5.9
302557	Upgrade	65	60	85	44	44	68	48	49	73	4.3	5.3	5.5
302559	Upgrade	65	60	85	34	33	59	36	37	60	2.0	4.1	1.0
302560	Upgrade	65	60	85	38	38	63	41	42	66	2.6	4.6	2.4
302561	Upgrade	65	60	85	35	34	60	37	38	61	2.5	4.6	1.4
302562	Upgrade	65	60	85	40	39	64	41	42	65	1.2	3.4	1.3
302563	Upgrade	65	60	85	41	40	66	43	44	67	1.6	3.8	1.0
302564	Upgrade	65	60	85	42	42	64	46	47	70	3.8	5.1	5.4
302570	Upgrade	65	60	85	38	37	62	40	41	64	2.1	4.2	2.2
302574	Upgrade	65	60	85	36	35	62	37	38	62	1.0	3.3	-0.3
302575	Upgrade	65	60	85	43	42	66	46	47	70	3.8	5.5	4.4
302576	Upgrade	65	60	85	42	41	64	46	47	69	3.9	5.3	5.7
302578	Upgrade	65	60	85	40	40	63	44	46	69	4.1	5.2	5.4
302579	Upgrade	65	60	85	39	38	63	40	41	64	1.0	3.3	0.5
302582	Upgrade	65	60	85	43	41	67	45	46	69	2.4	4.5	2.3
302588	Upgrade	65	60	85	40	38	64	40	41	65	0.6	3.0	0.8
302594	Upgrade	65	60	85	40	39	64	41	42	65	0.8	3.2	0.5
302595	Upgrade	65	60	85	42	41	64	45	46	70	3.2	4.5	5.1
302597	Upgrade	65	60	85	38	37	63	41	42	66	3.1	5.0	3.0
302598	Upgrade	65	60	85	37	36	62	40	41	64	2.9	4.8	1.6
302599	Upgrade	65	60	85	47	47	70	32	33	55	-14.8	-14.1	-15.4
302601	Upgrade	65	60	85	38	38	61	43	44	67	4.4	6.1	5.4
302602	Upgrade	65	60	85	42	41	65	45	46	70	3.6	4.9	5.1
302603	Upgrade	65	60	85	43	42	68	45	46	70	2.2	4.3	1.9
302604	Upgrade	65	60	85	43	43	66	47	48	71	4.0	5.5	5.0
302606	Upgrade	65	60	85	43	42	65	47	48	70	3.9	5.2	5.3
302607	Upgrade	65	60	85	42	41	67	43	44	67	1.3	3.5	0.7
302611	Upgrade	65	60	85	40	39	64	41	42	64	0.8	3.2	0.5
302614	Upgrade	65	60	85	46	47	69	43	43	67	-3.8	-3.3	-1.8
302617	Upgrade	65	60	85	34	34	57	39	40	64	5.2	5.9	6.1
302620	Upgrade	65	60	85	41	41	63	44	45	68	2.5	4.1	4.5
302621	Upgrade	65	60	85	39	38	62	42	43	67	3.2	5.0	5.1
302624	Upgrade	65	60	85	38	38	62	42	43	66	3.2	5.0	3.8
302626	Upgrade	65	60	85	45	45	69	49	50	74	4.3	5.2	5.1
302628	Upgrade	65	60	85	34	33	59	36	37	59	2.3	4.4	0.0
302630	Upgrade	65	60	85	37	36	60	39	40	63	2.6	4.6	3.4
302631	Upgrade	65	60	85	40	39	64	42	43	66	1.9	4.0	2.2
302632	Upgrade	65	60	85	30	29	56	33	34	57	2.6	4.6	1.2
302635	Upgrade	65	60	85	41	39	64	43	44	66	2.2	4.3	2.6
302637	Upgrade	65	60	85	43	42	68	46	47	70	2.7	4.8	2.3



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
302639	Upgrade	65	60	85	39	39	61	44	45	68	4.4	6.0	6.6
302642	Upgrade	65	60	85	25	25	45	31	32	55	6.0	7.2	10.2
302646	Upgrade	65	60	85	37	35	61	38	39	61	0.9	3.2	0.0
302648	Upgrade	65	60	85	40	39	64	42	43	66	1.6	3.7	1.7
302649	Upgrade	65	60	85	38	37	62	40	41	64	1.6	3.9	1.8
302660	Upgrade	65	60	85	40	39	64	43	44	67	3.4	5.3	3.3
302662	Upgrade	65	60	85	41	41	65	45	46	70	3.7	4.8	4.5
302665	Upgrade	65	60	85	39	38	62	41	42	65	2.0	4.1	2.5
302667	Upgrade	65	60	85	42	42	65	45	46	70	3.1	4.4	4.6
302670	Upgrade	65	60	85	35	34	60	37	38	61	2.6	4.6	1.0
302672	Upgrade	65	60	85	47	47	70	33	34	57	-14.3	-13.5	-13.7
302675	Upgrade	65	60	85	41	41	64	44	45	69	3.5	4.7	4.7
302676	Upgrade	65	60	85	39	38	63	43	44	67	3.9	5.7	4.8
302678	Upgrade	65	60	85	41	41	64	44	45	69	3.5	4.7	4.5
302680	Upgrade	65	60	85	42	42	67	43	44	67	1.4	2.1	0.8
302687	Upgrade	65	60	85	43	42	67	45	46	69	2.6	4.6	2.4
302688	Upgrade	65	60	85	41	40	64	44	45	68	3.4	5.2	4.7
302690	Upgrade	65	60	85	34	33	60	37	38	60	2.4	4.4	0.5
302695	Upgrade	65	60	85	37	38	61	42	44	67	5.2	6.0	5.3
302698	Upgrade	65	60	85	41	41	64	46	47	70	4.3	5.9	5.2
302700	Upgrade	65	60	85	43	43	66	35	36	59	-7.7	-7.0	-7.3
302701	Upgrade	65	60	85	39	39	63	43	44	68	3.7	5.4	4.5
302704	Upgrade	65	60	85	42	42	65	45	46	70	3.7	4.8	4.9
302705	Upgrade	65	60	85	40	40	64	44	45	68	3.5	4.7	4.7
302710	Upgrade	65	60	85	51	51	75	56	57	80	4.7	5.4	5.1
302716	Upgrade	65	60	85	38	37	63	39	40	63	1.0	3.3	0.3
302720	Upgrade	65	60	85	34	33	57	37	38	61	3.2	4.5	4.2
302721	Upgrade	65	60	85	61	61	86	29	30	55	-31.2	-30.6	-31.2
302724	Upgrade	65	60	85	39	38	61	43	44	67	4.6	6.2	6.3
302726	Upgrade	65	60	85	40	39	64	40	41	65	0.3	2.6	0.7
302729	Upgrade	65	60	85	40	40	63	44	45	68	3.6	4.8	4.8
302731	Upgrade	65	60	85	40	40	63	43	44	68	3.5	4.8	4.6
302733	Upgrade	65	60	85	46	46	69	32	33	56	-13.9	-13.2	-13.4
302735	Upgrade	65	60	85	40	39	64	42	43	66	2.5	4.3	2.6
302737	Upgrade	65	60	85	41	41	64	44	45	68	2.7	4.2	4.9
302738	Upgrade	65	60	85	41	40	64	44	45	68	2.9	4.9	4.0
302740	Upgrade	65	60	85	40	39	64	42	43	66	1.5	3.6	1.7
302743	Upgrade	65	60	85	38	37	61	41	42	65	3.0	5.1	4.4
302744	Upgrade	65	60	85	40	39	64	42	43	67	2.1	4.2	2.9
302746	Upgrade	65	60	85	35	34	62	35	36	58	-0.3	2.1	-3.9
302750	Upgrade	65	60	85	42	42	65	46	47	68	3.4	5.0	3.0
302755	Upgrade	65	60	85	42	41	64	45	46	68	3.1	4.5	4.5
302759	Upgrade	65	60	85	48	49	71	46	47	70	-2.9	-2.2	-1.4
302763	Upgrade	65	60	85	40	39	62	42	43	67	2.9	4.7	4.3
302764	Upgrade	65	60	85	41	40	65	42	43	67	1.6	3.8	1.8
302766	Upgrade	65	60	85	42	41	65	45	46	68	2.8	4.5	2.9
302768	Upgrade	65	60	85	39	38	63	42	43	67	2.9	4.9	3.8
302771	Upgrade	65	60	85	40	39	64	41	42	65	1.0	3.3	1.0
302773	Upgrade	65	60	85	50	50	73	46	47	70	-4.0	-3.3	-3.0
302774	Upgrade	65	60	85	38	37	62	41	42	65	2.3	4.3	2.9
302775	Upgrade	65	60	85	42	41	67	44	45	68	1.4	3.4	1.1

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmix	LAeq,15hr	LAeq,9hr	LAmix	LAeq,15hr	LAeq,9hr	LAmix
302776	Upgrade	65	60	85	39	39	64	43	44	67	3.2	4.9	3.6
302779	Upgrade	65	60	85	40	39	64	42	43	65	1.4	3.7	1.1
302780	Upgrade	65	60	85	41	40	64	44	45	68	3.0	5.0	4.0
302782	Upgrade	65	60	85	44	43	68	47	48	71	3.2	5.2	3.6
302786	Upgrade	65	60	85	41	40	65	44	45	69	3.4	5.2	3.6
302787	Upgrade	65	60	85	46	46	70	34	35	58	-12.0	-11.3	-12.2
302790	Upgrade	65	60	85	41	40	65	44	45	68	2.8	4.8	2.6
302794	Upgrade	65	60	85	55	55	81	39	40	62	-15.8	-15.0	-18.4
302795	Upgrade	65	60	85	38	37	63	41	42	65	3.0	4.9	2.6
302798	Upgrade	65	60	85	42	41	65	44	45	68	2.7	4.7	3.2
302799	Upgrade	65	60	85	33	32	60	34	35	57	0.5	2.9	-2.2
302803	Upgrade	65	60	85	38	37	61	42	42	66	3.3	5.1	4.5
302812	Upgrade	65	60	85	40	39	64	42	43	66	1.9	4.2	2.3
302822	Upgrade	65	60	85	47	48	70	44	45	68	-3.5	-2.8	-1.9
302823	Upgrade	65	60	85	41	39	64	42	43	66	1.8	4.0	2.0
302824	Upgrade	65	60	85	35	34	60	38	39	62	3.2	5.1	1.6
302829	Upgrade	65	60	85	40	40	64	44	45	69	4.2	5.2	4.9
302835	Upgrade	65	60	85	50	51	75	43	45	68	-7.0	-6.2	-6.4
302836	Upgrade	65	60	85	40	39	64	44	45	67	3.2	5.1	3.1
302837	Upgrade	65	60	85	44	43	66	48	49	71	4.2	5.8	5.0
302838	Upgrade	65	60	85	41	40	65	44	45	68	2.5	4.5	3.3
302842	Upgrade	65	60	85	41	41	63	46	47	69	4.3	5.9	5.4
302849	Upgrade	65	60	85	41	41	64	39	40	63	-1.6	-1.0	-0.6
302853	Upgrade	65	60	85	38	38	62	42	43	67	4.0	5.5	5.5
302855	Upgrade	65	60	85	44	43	67	47	48	72	3.7	5.5	4.7
302856	Upgrade	65	60	85	40	39	64	43	44	67	2.8	4.7	2.8
302860	Upgrade	65	60	85	42	41	66	45	46	70	3.2	5.1	3.8
302861	Upgrade	65	60	85	38	38	60	41	42	65	3.1	4.5	5.2
302863	Upgrade	65	60	85	42	42	66	45	46	70	3.6	4.7	4.2
302868	Upgrade	65	60	85	39	39	62	43	44	67	3.5	4.7	4.6
302874	Upgrade	65	60	85	38	37	60	42	43	66	4.1	5.7	5.7
302875	Upgrade	65	60	85	40	39	62	42	43	66	2.6	4.1	4.4
302878	Upgrade	65	60	85	41	40	66	45	46	69	3.8	5.6	3.1
302880	Upgrade	65	60	85	39	38	62	42	43	66	2.5	4.6	3.2
302881	Upgrade	65	60	85	40	40	63	45	46	68	4.7	6.2	4.8
302883	Upgrade	65	60	85	41	41	64	45	46	69	3.9	5.0	5.0
302890	Upgrade	65	60	85	41	40	66	43	44	68	2.2	4.3	1.5
302895	Upgrade	65	60	85	49	50	74	43	44	67	-6.2	-5.5	-7.2
302900	Upgrade	65	60	85	34	34	59	40	41	64	5.6	6.3	5.3
302905	Upgrade	65	60	85	39	39	62	43	44	67	3.9	4.9	5.4
302906	Upgrade	65	60	85	42	43	65	41	42	65	-1.0	-0.4	0.0
302908	Upgrade	65	60	85	39	39	62	43	44	67	3.7	5.0	4.7
302909	Upgrade	65	60	85	41	40	65	45	46	68	3.5	5.3	3.7
302913	Upgrade	65	60	85	46	47	70	36	37	60	-10.6	-9.8	-10.6
302915	Upgrade	65	60	85	39	39	63	43	44	67	3.7	4.8	4.4
302918	Upgrade	65	60	85	40	39	64	42	43	66	2.0	4.1	2.0
302919	Upgrade	65	60	85	38	36	61	40	41	64	2.5	4.6	3.3
302922	Upgrade	65	60	85	41	40	64	44	45	68	3.3	5.1	4.4
302925	Upgrade	65	60	85	38	37	62	41	42	65	2.3	4.3	3.0
302926	Upgrade	65	60	85	42	41	65	46	47	70	4.0	5.7	5.1
302927	Upgrade	65	60	85	41	40	63	43	44	67	2.7	4.1	4.3



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
302928	Upgrade	65	60	85	37	37	63	42	44	67	5.0	6.2	4.6
302929	Upgrade	65	60	85	42	41	66	45	46	70	3.4	5.4	3.6
302930	Upgrade	65	60	85	39	39	63	44	45	68	4.5	5.5	4.6
302931	Upgrade	65	60	85	40	40	63	44	45	68	3.5	4.8	4.7
302936	Upgrade	65	60	85	56	57	81	35	36	60	-21.4	-20.7	-21.6
302938	Upgrade	65	60	85	45	46	69	31	33	56	-13.9	-13.1	-13.4
302941	Upgrade	65	60	85	30	30	50	33	34	56	2.5	3.2	6.2
302942	Upgrade	65	60	85	40	39	64	43	44	66	2.3	4.4	2.4
302944	Upgrade	65	60	85	42	40	66	43	44	67	1.7	3.9	1.6
302948	Upgrade	65	60	85	40	39	63	44	45	68	3.9	5.6	5.1
302950	Upgrade	65	60	85	40	38	63	41	42	65	1.8	4.0	1.9
302951	Upgrade	65	60	85	42	41	66	45	46	69	3.0	4.8	3.0
302953	Upgrade	65	60	85	45	46	67	44	45	69	-1.3	-0.6	1.4
302957	Upgrade	65	60	85	40	39	62	43	44	67	3.6	5.0	5.5
302961	Upgrade	65	60	85	40	39	64	43	44	67	3.6	5.5	3.3
302971	Upgrade	65	60	85	37	38	61	43	44	68	5.4	6.3	7.0
302977	Upgrade	65	60	85	37	36	61	41	42	64	3.6	5.5	3.6
302980	Upgrade	65	60	85	40	39	64	44	45	68	3.6	5.6	3.5
302989	Upgrade	65	60	85	42	41	66	44	45	68	2.4	4.1	2.3
302990	Upgrade	65	60	85	40	39	63	42	43	67	2.4	4.4	3.9
302991	Upgrade	65	60	85	44	44	68	32	33	55	-12.1	-11.4	-12.6
302992	Upgrade	65	60	85	40	39	63	42	43	66	2.5	4.5	2.6
302994	Upgrade	65	60	85	41	40	65	44	45	68	3.0	4.9	3.0
302998	Upgrade	65	60	85	42	41	65	44	46	68	2.9	4.9	3.8
302999	Upgrade	65	60	85	34	34	57	39	40	63	5.0	5.7	5.8
303003	Upgrade	65	60	85	33	32	58	36	37	60	3.1	5.1	1.6
303005	Upgrade	65	60	85	39	39	62	43	44	67	3.3	4.6	5.0
303007	Upgrade	65	60	85	42	41	66	44	45	69	2.3	4.3	2.4
303008	Upgrade	65	60	85	41	40	65	44	45	68	2.8	4.7	2.6
303010	Upgrade	65	60	85	43	42	66	46	47	71	3.0	5.0	4.9
303011	Upgrade	65	60	85	40	40	62	45	46	68	4.5	6.2	6.2
303012	Upgrade	65	60	85	40	39	64	41	42	65	0.5	2.8	0.7
303015	Upgrade	65	60	85	40	39	61	42	43	67	2.7	4.2	5.2
303018	Upgrade	65	60	85	41	40	64	44	45	68	3.1	5.0	4.1
303019	Upgrade	65	60	85	41	41	65	44	45	69	2.8	4.7	3.6
303022	Upgrade	65	60	85	37	36	61	41	42	65	4.2	5.9	4.1
303023	Upgrade	65	60	85	40	39	64	43	44	67	2.6	4.7	2.4
303027	Upgrade	65	60	85	38	38	60	42	43	67	4.5	5.6	6.3
303029	Upgrade	65	60	85	40	39	65	42	43	66	1.9	4.1	1.2
303033	Upgrade	65	60	85	42	40	66	42	43	67	0.8	3.0	0.4
303034	Upgrade	65	60	85	39	38	62	42	43	67	3.5	5.1	4.8
303035	Upgrade	65	60	85	42	42	65	46	47	70	3.8	4.8	5.3
303040	Upgrade	65	60	85	38	38	62	40	41	64	1.9	3.6	2.4
303046	Upgrade	65	60	85	41	40	63	44	45	68	3.6	5.3	4.9
303048	Upgrade	65	60	85	40	38	64	42	43	66	2.1	4.4	2.1
303049	Upgrade	65	60	85	38	37	61	42	43	66	3.9	5.6	4.4
303051	Upgrade	65	60	85	39	39	63	43	44	67	3.8	5.6	4.0
303053	Upgrade	65	60	85	41	40	64	43	44	67	2.3	4.5	2.9
303056	Upgrade	65	60	85	39	38	62	41	42	64	1.9	3.7	2.7
303057	Upgrade	65	60	85	32	32	53	35	35	58	2.4	3.0	4.8
303058	Upgrade	65	60	85	41	40	64	44	45	68	3.5	5.3	4.4

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
303060	Upgrade	65	60	85	40	40	64	44	45	68	3.2	5.1	4.0
303066	Upgrade	65	60	85	41	40	63	44	45	68	3.3	4.6	5.4
303077	Upgrade	65	60	85	34	33	58	37	38	61	3.8	5.4	2.5
303079	Upgrade	65	60	85	41	40	64	42	43	67	1.2	3.1	2.1
303082	Upgrade	65	60	85	42	42	66	46	47	71	4.4	5.2	5.1
303085	Upgrade	65	60	85	42	41	65	44	45	68	1.9	4.0	3.3
303087	Upgrade	65	60	85	39	38	62	41	42	64	2.0	3.8	2.7
303090	Upgrade	65	60	85	42	41	67	44	45	68	1.9	4.2	1.4
303093	Upgrade	65	60	85	41	40	64	44	45	68	3.1	5.0	4.0
303096	Upgrade	65	60	85	39	39	62	43	44	67	3.9	5.6	4.8
303101	Upgrade	65	60	85	41	40	65	44	45	68	3.0	4.9	2.8
303104	Upgrade	65	60	85	38	37	61	39	40	63	1.4	3.2	1.9
303105	Upgrade	65	60	85	39	38	62	41	42	65	2.0	3.8	2.6
303106	Upgrade	65	60	85	40	39	63	43	44	67	2.8	4.8	3.4
303114	Upgrade	65	60	85	37	38	61	42	44	67	5.0	5.9	5.7
303115	Upgrade	65	60	85	48	48	71	53	54	76	4.7	5.4	5.7
303117	Upgrade	65	60	85	38	38	60	42	43	66	3.8	5.0	6.0
303118	Upgrade	65	60	85	42	41	65	44	45	69	1.9	4.1	3.2
303122	Upgrade	65	60	85	31	31	52	35	36	59	4.1	4.8	6.3
303124	Upgrade	65	60	85	46	46	70	44	45	69	-1.5	-0.8	-1.0
303125	Upgrade	65	60	85	41	40	62	44	45	67	3.1	4.6	4.3
303127	Upgrade	65	60	85	36	35	61	38	39	62	2.4	4.4	0.7
303128	Upgrade	65	60	85	41	40	66	45	46	68	3.2	5.2	2.2
303131	Upgrade	65	60	85	40	40	62	43	44	67	3.0	4.6	5.0
303134	Upgrade	65	60	85	41	40	66	45	46	68	3.8	5.5	2.6
303136	Upgrade	65	60	85	39	39	62	42	43	65	2.3	4.0	2.8
303137	Upgrade	65	60	85	40	39	62	42	43	65	2.3	3.9	3.0
303140	Upgrade	65	60	85	41	40	66	45	46	68	3.7	5.6	2.6
303144	Upgrade	65	60	85	37	36	60	41	42	65	4.7	6.2	5.6
303148	Upgrade	65	60	85	37	37	60	41	42	65	3.4	4.7	5.2
303153	Upgrade	65	60	85	35	35	56	38	39	61	3.3	4.8	4.4
303157	Upgrade	65	60	85	42	41	67	44	45	68	1.7	4.0	1.2
303158	Upgrade	65	60	85	42	41	66	44	45	68	2.5	4.5	2.7
303166	Upgrade	65	60	85	41	41	64	45	46	69	3.3	4.7	4.9
303167	Upgrade	65	60	85	37	37	61	43	44	67	5.4	6.1	5.7
303170	Upgrade	65	60	85	32	31	58	36	37	60	3.6	5.5	2.1
303178	Upgrade	65	60	85	41	40	64	43	44	67	2.1	4.1	3.0
303182	Upgrade	65	60	85	39	38	61	41	42	65	2.1	3.8	3.6
303183	Upgrade	65	60	85	43	42	65	46	47	70	3.7	5.3	4.6
303184	Upgrade	65	60	85	44	44	68	48	49	73	4.3	5.1	4.5
303185	Upgrade	65	60	85	40	40	63	44	45	68	3.4	5.2	5.5
303186	Upgrade	65	60	85	47	47	69	45	46	69	-1.5	-0.8	0.2
303187	Upgrade	65	60	85	43	42	65	46	47	71	3.3	5.2	5.3
303190	Upgrade	65	60	85	42	41	65	45	46	69	3.3	5.1	4.1
303193	Upgrade	65	60	85	42	41	66	45	46	70	3.4	5.3	3.7
303206	Upgrade	65	60	85	43	43	66	47	48	70	3.5	5.2	3.4
303208	Upgrade	65	60	85	43	42	64	47	48	70	4.2	5.5	5.4
303214	Upgrade	65	60	85	42	41	66	44	45	68	1.6	3.7	2.6
303217	Upgrade	65	60	85	42	41	66	45	46	70	2.8	4.8	3.2
303219	Upgrade	65	60	85	42	41	67	44	45	68	1.6	3.8	0.1
303226	Upgrade	65	60	85	43	42	65	47	48	70	3.7	5.4	4.8



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA				Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	
303228	Upgrade	65	60	85	44	43	68	47	48	71	3.4	5.1	3.4	
303230	Upgrade	65	60	85	42	41	66	44	45	69	2.9	4.8	2.9	
303236	Upgrade	65	60	85	43	43	67	47	48	70	3.3	5.1	3.6	
303238	Upgrade	65	60	85	37	37	59	40	41	63	2.8	4.4	4.6	
303251	Upgrade	65	60	85	40	39	64	44	45	68	3.3	5.2	3.6	
303252	Upgrade	65	60	85	36	36	58	39	40	63	3.1	4.6	5.3	
303254	Upgrade	65	60	85	38	37	61	39	40	62	1.1	3.1	0.7	
303255	Upgrade	65	60	85	41	40	64	44	45	68	2.9	4.9	3.4	
303265	Upgrade	65	60	85	36	35	62	38	39	62	2.0	4.2	0.4	
303268	Upgrade	65	60	85	41	40	65	44	45	68	3.0	5.0	3.3	
303272	Upgrade	65	60	85	34	33	60	35	36	57	0.6	2.8	-3.2	
303273	Upgrade	65	60	85	42	41	65	45	46	69	3.6	5.5	3.9	
303278	Upgrade	65	60	85	33	32	60	35	36	59	1.6	3.9	-0.7	
303279	Upgrade	65	60	85	43	44	67	48	50	73	5.1	5.9	6.3	
303282	Upgrade	65	60	85	40	39	65	43	44	68	2.9	4.7	2.4	
303283	Upgrade	65	60	85	37	37	60	41	42	66	4.7	5.4	5.6	
303284	Upgrade	65	60	85	45	45	67	40	41	64	-4.8	-4.1	-3.7	
303288	Upgrade	65	60	85	46	46	69	44	45	68	-2.3	-1.6	-1.2	
303290	Upgrade	65	60	85	41	42	65	41	42	66	-0.3	0.4	0.8	
303295	Upgrade	65	60	85	44	43	67	47	49	72	3.8	5.6	4.7	
303298	Upgrade	65	60	85	35	35	56	40	41	63	5.5	6.4	6.5	
303304	Upgrade	65	60	85	41	40	65	43	44	68	2.2	4.2	3.0	
303310	Upgrade	65	60	85	41	40	65	45	46	69	3.5	5.4	3.7	
303311	Upgrade	65	60	85	42	41	67	43	44	67	0.7	3.1	0.3	
303314	Upgrade	65	60	85	40	40	65	44	45	68	3.8	5.6	3.8	
303319	Upgrade	65	60	85	42	41	65	46	47	70	3.4	5.3	4.6	
303325	Upgrade	65	60	85	35	35	58	40	41	64	5.3	6.1	6.4	
303330	Upgrade	65	60	85	39	39	62	43	44	68	4.0	5.1	5.5	
303334	Upgrade	65	60	85	38	37	62	39	40	62	0.7	2.8	0.1	
303337	Upgrade	65	60	85	43	42	68	45	46	69	1.4	3.7	0.6	
303338	Upgrade	65	60	85	43	42	66	46	47	70	2.7	4.6	3.9	
303343	Upgrade	65	60	85	42	41	67	45	46	70	2.6	4.5	2.9	
303344	Upgrade	65	60	85	42	41	67	44	45	68	2.0	4.1	1.3	
303345	Upgrade	65	60	85	43	42	66	45	46	70	2.2	4.3	3.1	
303347	Upgrade	65	60	85	62	62	88	39	40	64	-22.6	-22.1	-24.0	
303351	Upgrade	65	60	85	38	38	60	38	39	62	0.4	1.0	1.6	
303353	Upgrade	65	60	85	61	61	86	39	40	63	-21.9	-21.5	-23.0	
303356	Upgrade	65	60	85	43	42	67	46	47	71	3.0	4.9	4.0	
303358	Upgrade	65	60	85	42	41	65	45	46	69	3.1	5.0	3.7	
303361	Upgrade	65	60	85	30	30	50	33	34	57	3.2	3.9	6.3	
303365	Upgrade	65	60	85	35	34	61	36	37	59	0.7	2.9	-2.1	
303368	Upgrade	65	60	85	42	41	65	46	47	69	3.8	5.5	4.5	
303372	Upgrade	65	60	85	63	63	88	43	44	67	-20.0	-19.5	-21.9	
303373	Upgrade	65	60	85	44	44	68	49	50	74	5.2	5.9	6.4	
303377	Upgrade	65	60	85	42	41	65	43	44	68	1.9	3.9	3.1	
303381	Upgrade	65	60	85	42	41	66	44	45	68	1.8	4.0	2.3	
303384	Upgrade	65	60	85	43	42	67	45	46	69	2.5	4.6	2.4	
303388	Upgrade	65	60	85	54	54	78	38	39	64	-15.6	-14.9	-14.9	
303389	Upgrade	65	60	85	41	40	63	45	46	68	4.1	5.8	5.5	
303390	Upgrade	65	60	85	42	41	63	47	48	71	5.4	6.8	8.4	
303393	Upgrade	65	60	85	38	38	61	42	43	66	4.4	5.2	5.5	

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA				Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	
303397	Upgrade	65	60	85	43	42	67	47	48	71	3.6	5.4	4.1	
303401	Upgrade	65	60	85	44	43	67	47	48	70	3.3	5.2	3.7	
303404	Upgrade	65	60	85	58	58	86	41	42	65	-17.0	-16.5	-20.7	
303411	Upgrade	65	60	85	34	33	60	36	37	59	1.6	3.7	-1.0	
303414	Upgrade	65	60	85	31	31	52	34	35	58	3.8	4.4	5.5	
303416	Upgrade	65	60	85	38	37	62	39	40	63	1.3	3.2	1.2	
303418	Upgrade	65	60	85	41	41	64	45	46	69	3.8	5.5	4.5	
303421	Upgrade	65	60	85	43	42	68	45	46	69	2.0	4.1	1.0	
303424	Upgrade	65	60	85	42	41	69	42	43	66	-0.6	1.8	-2.8	
303427	Upgrade	65	60	85	35	35	57	40	41	63	4.5	5.6	6.2	
303428	Upgrade	65	60	85	33	33	53	36	37	59	2.7	3.4	5.7	
303430	Upgrade	65	60	85	52	52	77	40	41	63	-12.2	-11.5	-13.3	
303432	Upgrade	65	60	85	37	36	62	40	41	64	3.1	5.0	1.7	
303434	Upgrade	65	60	85	56	56	82	41	42	65	-15.0	-14.6	-16.9	
303441	Upgrade	65	60	85	45	46	68	40	41	64	-5.3	-4.5	-3.6	
303443	Upgrade	65	60	85	44	43	66	48	49	72	4.0	5.8	6.3	
303446	Upgrade	65	60	85	30	29	51	34	35	57	4.7	6.0	6.5	
303449	Upgrade	65	60	85	44	43	69	46	47	70	1.7	3.9	0.8	
303458	Upgrade	65	60	85	40	39	64	43	44	68	2.9	4.7	3.5	
303461	Upgrade	65	60	85	34	33	60	36	37	59	2.1	4.1	-0.5	
303465	Upgrade	65	60	85	31	31	55	35	36	59	3.7	5.5	3.5	
303467	Upgrade	65	60	85	43	41	67	45	46	69	2.3	4.4	2.5	
303468	Upgrade	65	60	85	44	45	68	49	51	74	5.0	5.9	6.4	
303469	Upgrade	65	60	85	36	36	58	41	42	65	4.7	5.5	6.2	
303470	Upgrade	65	60	85	42	41	68	44	45	68	1.2	3.5	0.0	
303474	Upgrade	65	60	85	32	33	54	37	38	60	4.5	5.3	6.7	
303479	Upgrade	65	60	85	35	35	57	39	40	62	4.5	5.5	5.7	
303483	Upgrade	65	60	85	43	42	66	46	47	71	3.7	5.6	4.6	
303485	Upgrade	65	60	85	52	52	76	38	38	61	-14.2	-13.9	-15.2	
303488	Upgrade	65	60	85	37	36	60	39	39	62	1.7	3.5	1.6	
303489	Upgrade	65	60	85	43	41	68	43	44	68	0.6	3.1	-0.9	
303503	Upgrade	65	60	85	43	42	67	44	45	68	1.4	3.7	1.6	
303504	Upgrade	65	60	85	40	39	64	43	44	67	2.7	4.7	3.3	
303511	Upgrade	65	60	85	33	32	59	35	36	59	1.5	3.6	-0.8	
303512	Upgrade	65	60	85	39	37	64	38	39	61	-0.9	1.5	-3.3	
303513	Upgrade	65	60	85	37	37	60	37	38	61	0.6	1.3	1.3	
303525	Upgrade	65	60	85	41	40	65	43	44	68	2.3	4.4	2.9	
303530	Upgrade	65	60	85	42	41	66	44	45	69	1.9	4.1	3.1	
303531	Upgrade	65	60	85	42	41	68	44	45	68	1.7	3.8	0.8	
303533	Upgrade	65	60	85	43	42	68	47	48	72	4.4	6.1	4.0	
303544	Upgrade	65	60	85	44	43	66	48	49	72	4.2	5.9	6.0	
303546	Upgrade	65	60	85	40	39	65	43	44	67	3.0	5.0	1.8	
303547	Upgrade	65	60	85	45	45	69	33	34	57	-11.5	-10.9	-12.3	
303549	Upgrade	65	60	85	36	34	62	36	37	60	0.5	2.9	-2.3	
303550	Upgrade	65	60	85	44	44	67	49	50	74	5.1	5.9	6.8	
303552	Upgrade	65	60	85	39	38	62	43	44	67	3.6	5.3	4.8	
303556	Upgrade	65	60	85	39	39	61	43	44	67	3.9	5.2	6.0	
303558	Upgrade	65	60	85	42	41	65	45	47	70	3.4	5.2	5.3	
303562	Upgrade	65	60	85	35	34	62	34	35	57	-1.1	1.4	-4.8	
303563	Upgrade	65	60	85	36	36	57	40	41	64	4.2	5.5	7.0	
303568	Upgrade	65	60	85	42	42	67	44	45	68	1.8	2.4	1.5	



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmix	LAeq,15hr	LAeq,9hr	LAmix	LAeq,15hr	LAeq,9hr	LAmix
303569	Upgrade	65	60	85	42	42	63	47	48	71	5.1	6.5	7.8
303570	Upgrade	65	60	85	42	41	66	45	46	69	3.3	5.2	3.3
303573	Upgrade	65	60	85	57	58	82	41	42	65	-15.9	-15.5	-17.9
303574	Upgrade	65	60	85	37	37	60	42	43	66	4.5	5.4	6.1
303577	Upgrade	65	60	85	33	32	59	34	35	57	0.9	3.1	-2.1
303582	Upgrade	65	60	85	39	38	65	43	44	67	3.3	5.3	2.3
303584	Upgrade	65	60	85	34	33	60	35	36	58	1.4	3.5	-1.9
303586	Upgrade	65	60	85	35	35	56	40	41	64	5.4	6.2	7.8
303587	Upgrade	65	60	85	42	42	63	47	48	70	4.8	6.3	6.8
303592	Upgrade	65	60	85	56	56	81	42	43	65	-13.7	-13.4	-16.2
303595	Upgrade	65	60	85	38	36	62	37	39	61	-0.3	2.1	-1.3
303601	Upgrade	65	60	85	51	51	76	40	41	64	-10.6	-10.1	-12.2
303606	Upgrade	65	60	85	41	40	64	45	46	69	3.8	5.6	5.1
303614	Upgrade	65	60	85	43	43	65	47	48	72	4.2	5.9	6.7
303615	Upgrade	65	60	85	44	44	67	49	50	74	4.9	5.8	6.7
303616	Upgrade	65	60	85	42	40	65	43	44	68	1.9	4.1	2.6
303621	Upgrade	65	60	85	35	35	57	38	39	62	3.1	4.8	4.6
303622	Upgrade	65	60	85	43	44	67	34	35	57	-9.5	-8.8	-9.2
303626	Upgrade	65	60	85	37	36	62	38	39	62	1.5	3.7	0.0
303631	Upgrade	65	60	85	37	37	60	41	42	65	4.1	5.1	5.1
303636	Upgrade	65	60	85	39	38	63	43	44	66	4.0	5.6	3.1
303642	Upgrade	65	60	85	42	41	67	44	45	68	1.6	3.8	0.7
303644	Upgrade	65	60	85	40	40	63	45	46	70	5.2	6.0	7.0
303650	Upgrade	65	60	85	44	43	69	46	47	70	1.9	4.2	1.3
303651	Upgrade	65	60	85	42	41	66	45	46	69	3.4	5.3	3.4
303657	Upgrade	65	60	85	35	34	60	37	38	60	2.0	4.0	0.3
303660	Upgrade	65	60	85	35	35	59	38	39	62	2.8	4.3	2.5
303666	Upgrade	65	60	85	39	38	63	40	41	63	0.5	2.6	-0.3
303667	Upgrade	65	60	85	43	41	68	43	44	67	0.8	3.1	-0.3
303669	Upgrade	65	60	85	38	37	62	39	40	62	0.8	3.0	-0.2
303671	Upgrade	65	60	85	41	41	64	46	47	70	4.9	5.8	5.8
303679	Upgrade	65	60	85	43	42	68	46	47	70	3.2	5.1	2.2
303687	Upgrade	65	60	85	42	41	66	44	45	68	2.6	4.6	2.2
303689	Upgrade	65	60	85	43	42	68	45	46	69	2.0	4.1	1.0
303691	Upgrade	65	60	85	35	35	56	39	40	62	4.0	4.7	6.0
303694	Upgrade	65	60	85	41	40	68	43	44	67	2.0	4.1	-0.6
303696	Upgrade	65	60	85	43	42	66	46	47	70	2.9	4.8	3.6
303699	Upgrade	65	60	85	45	45	68	50	51	74	5.0	5.8	6.7
303701	Upgrade	65	60	85	37	36	64	38	39	62	1.0	3.3	-1.5
303702	Upgrade	65	60	85	43	42	67	45	46	70	2.0	4.1	2.6
303703	Upgrade	65	60	85	44	43	69	45	46	69	1.2	3.6	0.3
303704	Upgrade	65	60	85	36	35	59	38	39	62	2.1	4.0	2.7
303708	Upgrade	65	60	85	43	42	67	46	47	70	2.7	4.7	3.6
303709	Upgrade	65	60	85	43	42	65	48	49	71	4.5	6.2	5.9
303717	Upgrade	65	60	85	43	41	66	45	46	69	2.4	4.5	3.0
303719	Upgrade	65	60	85	44	44	67	48	49	72	3.4	5.3	5.4
303721	Upgrade	65	60	85	44	43	69	46	47	71	2.1	4.3	1.7
303724	Upgrade	65	60	85	42	41	66	45	46	69	2.9	4.9	3.4
303726	Upgrade	65	60	85	41	41	63	46	47	70	4.7	5.8	6.8
303729	Upgrade	65	60	85	44	45	66	40	41	63	-4.8	-4.0	-2.7
303730	Upgrade	65	60	85	36	37	59	41	42	65	4.9	5.7	6.3

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
303733	Upgrade	65	60	85	43	42	68	45	46	69	1.5	3.6	1.2
303734	Upgrade	65	60	85	43	41	67	44	45	68	1.5	3.8	0.7
303737	Upgrade	65	60	85	43	42	66	45	46	69	2.4	4.5	2.8
303738	Upgrade	65	60	85	41	40	63	44	45	69	3.6	5.4	5.5
303743	Upgrade	65	60	85	46	47	67	46	47	71	-0.3	0.4	3.5
303744	Upgrade	65	60	85	40	39	61	44	45	67	4.2	5.3	6.2
303746	Upgrade	65	60	85	39	38	63	40	41	63	1.3	3.3	0.7
303751	Upgrade	65	60	85	44	43	70	44	45	68	0.0	2.5	-2.2
303754	Upgrade	65	60	85	44	43	68	45	46	70	1.3	3.5	1.4
303757	Upgrade	65	60	85	40	40	61	43	44	67	3.3	4.5	5.6
303762	Upgrade	65	60	85	43	42	67	46	47	69	2.5	4.5	1.7
303764	Upgrade	65	60	85	40	40	62	45	46	68	4.7	5.8	6.5
303769	Upgrade	65	60	85	39	39	60	43	44	67	4.1	5.3	7.2
303772	Upgrade	65	60	85	41	41	64	46	47	70	4.5	6.1	6.3
303777	Upgrade	65	60	85	41	40	66	45	46	69	4.6	6.3	2.9
303778	Upgrade	65	60	85	48	49	71	50	51	74	1.5	2.2	3.1
303779	Upgrade	65	60	85	45	46	69	51	52	75	5.3	6.1	6.8
303780	Upgrade	65	60	85	34	34	55	37	38	61	3.2	3.9	5.8
303781	Upgrade	65	60	85	45	43	69	46	47	70	1.4	3.7	0.9
303786	Upgrade	65	60	85	37	36	63	39	40	62	1.7	3.9	-0.2
303789	Upgrade	65	60	85	43	41	67	45	45	68	2.0	4.0	1.4
303790	Upgrade	65	60	85	40	40	62	44	45	68	3.6	4.8	5.6
303791	Upgrade	65	60	85	39	39	64	44	45	67	4.3	6.0	3.5
303801	Upgrade	65	60	85	42	41	66	45	46	70	2.8	4.8	3.2
303802	Upgrade	65	60	85	45	43	69	47	47	71	2.0	4.1	1.5
303803	Upgrade	65	60	85	42	42	64	45	46	69	2.6	4.0	4.6
303804	Upgrade	65	60	85	43	42	67	46	47	71	3.1	4.9	4.0
303810	Upgrade	65	60	85	35	35	57	39	40	62	4.2	4.9	5.5
303811	Upgrade	65	60	85	40	39	64	43	44	67	2.7	4.7	3.1
303812	Upgrade	65	60	85	46	46	70	51	52	76	5.1	5.8	6.0
303816	Upgrade	65	60	85	44	43	69	47	48	71	2.8	4.8	2.5
303823	Upgrade	65	60	85	42	40	66	43	44	67	1.3	3.7	1.4
303828	Upgrade	65	60	85	42	40	66	43	44	66	1.2	3.5	0.7
303829	Upgrade	65	60	85	40	39	63	42	43	66	2.1	3.8	3.1
303833	Upgrade	65	60	85	42	41	66	45	46	69	3.0	5.0	3.6
303836	Upgrade	65	60	85	35	35	57	39	40	63	4.4	5.0	5.8
303842	Upgrade	65	60	85	42	41	66	44	45	69	2.4	4.3	3.2
303845	Upgrade	65	60	85	33	33	56	37	38	61	4.4	5.1	5.6
303846	Upgrade	65	60	85	44	44	67	48	49	73	4.5	5.3	6.0
303848	Upgrade	65	60	85	35	35	56	39	40	62	4.3	5.0	5.7
303849	Upgrade	65	60	85	40	41	62	44	45	68	3.2	3.8	5.6
303853	Upgrade	65	60	85	39	39	63	44	45	68	4.7	6.1	5.2
303855	Upgrade	65	60	85	43	41	67	44	45	68	1.2	3.4	0.9
303863	Upgrade	65	60	85	38	37	63	40	41	64	2.3	4.4	0.7
303866	Upgrade	65	60	85	41	40	64	45	46	68	3.5	5.4	4.3
303875	Upgrade	65	60	85	46	47	69	48	49	72	1.1	1.8	2.2
303877	Upgrade	65	60	85	44	43	68	46	47	71	2.6	4.6	2.4
303887	Upgrade	65	60	85	43	43	66	41	42	64	-2.5	-1.8	-2.4
303889	Upgrade	65	60	85	46	46	69	52	53	77	5.6	6.4	7.4
303890	Upgrade	65	60	85	34	34	56	38	39	61	3.7	4.4	5.4
303892	Upgrade	65	60	85	42	41	66	44	45	69	2.2	4.1	2.5



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
303893	Upgrade	65	60	85	44	43	68	46	47	70	1.6	3.8	2.1
303908	Upgrade	65	60	85	43	41	67	43	44	68	0.9	3.2	0.6
303910	Upgrade	65	60	85	39	38	62	41	42	65	2.7	4.5	3.3
303912	Upgrade	65	60	85	38	38	63	44	45	68	5.1	6.4	5.2
303923	Upgrade	65	60	85	46	46	69	51	52	76	5.3	6.1	6.9
303925	Upgrade	65	60	85	44	43	69	47	48	72	2.7	4.7	2.9
303927	Upgrade	65	60	85	45	44	69	48	49	72	3.2	5.2	3.2
303929	Upgrade	65	60	85	43	42	68	45	46	69	1.4	3.5	1.0
303932	Upgrade	65	60	85	40	39	64	45	46	68	4.7	6.2	4.7
303933	Upgrade	65	60	85	40	39	65	44	45	67	3.1	5.2	2.8
303934	Upgrade	65	60	85	41	41	64	45	46	69	3.6	5.5	5.4
303936	Upgrade	65	60	85	45	44	68	48	49	72	3.0	4.9	3.6
303937	Upgrade	65	60	85	43	41	67	44	45	68	1.3	3.6	1.0
303945	Upgrade	65	60	85	45	44	70	46	47	71	1.4	3.7	0.6
303948	Upgrade	65	60	85	44	43	69	44	45	68	0.2	2.6	-0.6
303952	Upgrade	65	60	85	43	42	67	45	46	69	2.1	4.3	1.8
303959	Upgrade	65	60	85	32	33	56	37	38	62	4.9	5.7	6.2
303960	Upgrade	65	60	85	46	46	67	46	47	70	-0.2	0.5	3.1
303962	Upgrade	65	60	85	43	43	67	47	48	70	3.3	5.2	3.3
303963	Upgrade	65	60	85	44	44	68	48	49	72	3.4	5.3	4.0
303966	Upgrade	65	60	85	46	45	70	48	49	72	2.3	4.4	2.1
303969	Upgrade	65	60	85	40	40	64	43	44	67	2.4	4.4	3.6
303972	Upgrade	65	60	85	44	43	68	48	49	72	4.4	6.1	4.3
303984	Upgrade	65	60	85	47	48	70	53	54	78	5.4	6.2	7.3
303986	Upgrade	65	60	85	42	41	63	45	46	70	3.1	4.6	6.4
303989	Upgrade	65	60	85	41	40	63	45	46	70	4.1	5.8	6.2
303991	Upgrade	65	60	85	43	42	68	45	46	70	1.9	3.9	2.3
303996	Upgrade	65	60	85	41	41	63	45	46	68	3.8	5.1	5.8
303999	Upgrade	65	60	85	44	44	68	48	49	72	3.5	5.3	3.9
304002	Upgrade	65	60	85	41	41	65	47	48	71	5.1	6.5	5.5
304005	Upgrade	65	60	85	43	43	66	49	50	73	5.5	6.3	7.1
304011	Upgrade	65	60	85	43	42	66	46	47	70	3.7	5.5	4.1
304012	Upgrade	65	60	85	42	41	64	45	46	69	3.9	5.0	4.9
304014	Upgrade	65	60	85	45	44	69	46	47	71	1.7	3.9	2.2
304015	Upgrade	65	60	85	53	53	77	41	42	64	-11.5	-11.2	-13.3
304018	Upgrade	65	60	85	41	40	63	44	46	68	3.8	5.7	4.8
304020	Upgrade	65	60	85	42	41	64	45	46	70	3.6	5.5	5.3
304026	Upgrade	65	60	85	40	40	63	45	46	68	4.7	6.1	5.7
304027	Upgrade	65	60	85	43	42	67	45	46	69	1.8	3.8	2.4
304031	Upgrade	65	60	85	43	42	69	45	46	70	1.9	4.1	1.0
304033	Upgrade	65	60	85	45	46	69	47	48	71	1.3	2.0	2.1
304037	Upgrade	65	60	85	44	44	68	48	49	72	3.7	4.4	4.0
304039	Upgrade	65	60	85	41	41	63	44	45	68	3.1	4.6	4.7
304040	Upgrade	65	60	85	44	42	68	45	46	69	0.9	3.2	0.3
304041	Upgrade	65	60	85	43	42	66	46	47	70	2.6	4.5	4.1
304042	Upgrade	65	60	85	45	44	69	48	49	72	2.7	4.7	2.9
304045	Upgrade	65	60	85	43	42	65	46	47	70	3.5	5.3	5.0
304051	Upgrade	65	60	85	43	43	66	48	49	72	4.3	5.9	5.9
304052	Upgrade	65	60	85	42	42	67	47	48	71	4.6	6.2	4.7
304064	Upgrade	65	60	85	45	45	68	49	50	73	3.8	4.9	5.3
304065	Upgrade	65	60	85	44	43	67	48	49	72	4.3	6.1	5.2

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmaz	LAeq,15hr	LAeq,9hr	LAmaz	LAeq,15hr	LAeq,9hr	LAmaz
304069	Upgrade	65	60	85	44	45	66	48	49	73	3.9	4.6	6.5
304072	Upgrade	65	60	85	48	48	71	47	48	71	-1.3	-0.7	-0.3
304081	Upgrade	65	60	85	48	48	70	52	53	77	4.7	5.6	6.8
304086	Upgrade	65	60	85	35	34	60	37	38	60	2.0	3.9	0.1
304088	Upgrade	65	60	85	43	42	67	44	45	68	0.5	2.8	1.2
304093	Upgrade	65	60	85	42	41	65	45	47	70	3.5	5.4	4.6
304100	Upgrade	65	60	85	47	47	69	51	53	76	4.9	6.0	6.9
304101	Upgrade	65	60	85	46	44	71	47	48	72	1.8	4.0	1.1
304112	Upgrade	65	60	85	42	41	65	45	46	68	2.9	4.8	3.2
304113	Upgrade	65	60	85	33	32	57	37	38	61	4.3	6.0	4.4
304115	Upgrade	65	60	85	43	42	67	46	47	70	2.3	4.3	2.7
304119	Upgrade	65	60	85	43	42	68	45	46	69	1.6	3.7	1.3
304120	Upgrade	65	60	85	44	43	69	46	47	70	1.5	3.7	1.2
304125	Upgrade	65	60	85	42	42	65	47	48	72	5.2	6.0	6.5
304133	Upgrade	65	60	85	33	33	55	37	38	61	4.1	4.7	6.0
304142	Upgrade	65	60	85	47	47	69	52	53	77	5.3	6.2	7.9
304143	Upgrade	65	60	85	45	44	70	47	48	71	1.9	4.0	1.3
304145	Upgrade	65	60	85	43	42	66	46	47	69	2.8	4.7	3.0
304146	Upgrade	65	60	85	44	42	69	45	46	69	1.2	3.4	0.2
304153	Upgrade	65	60	85	42	41	65	46	47	70	3.7	5.5	5.4
304155	Upgrade	65	60	85	50	50	72	55	56	80	5.5	6.5	7.9
304156	Upgrade	65	60	85	47	48	70	52	53	77	5.0	5.8	6.6
304160	Upgrade	65	60	85	47	47	71	48	49	73	1.3	2.0	1.9
304162	Upgrade	65	60	85	45	44	68	48	49	73	3.6	5.5	4.5
304164	Upgrade	65	60	85	43	42	69	44	45	68	0.5	2.8	-0.7
304165	Upgrade	65	60	85	45	45	67	49	50	74	4.5	5.5	6.3
304167	Upgrade	65	60	85	46	45	67	49	50	73	3.4	4.8	5.6
304174	Upgrade	65	60	85	43	42	67	44	45	68	1.3	3.5	1.2
304175	Upgrade	65	60	85	36	36	62	38	39	61	1.9	3.8	-0.6
304176	Upgrade	65	60	85	43	43	67	46	47	71	2.8	4.7	4.0
304179	Upgrade	65	60	85	46	44	71	46	47	70	0.2	2.6	-0.8
304182	Upgrade	65	60	85	44	44	67	50	51	74	5.7	6.6	7.0
304183	Upgrade	65	60	85	45	44	69	46	47	70	1.7	3.8	1.3
304188	Upgrade	65	60	85	53	53	78	42	43	65	-10.7	-10.3	-13.2
304190	Upgrade	65	60	85	35	35	57	39	40	61	4.2	4.9	4.1
304192	Upgrade	65	60	85	45	44	66	49	50	74	4.4	5.9	7.6
304193	Upgrade	65	60	85	46	46	69	50	51	75	4.0	5.1	5.2
304198	Upgrade	65	60	85	40	39	65	44	45	68	4.2	5.9	3.2
304200	Upgrade	65	60	85	46	46	68	50	51	74	4.2	5.3	5.7
304204	Upgrade	65	60	85	44	43	69	46	47	70	2.0	4.1	1.1
304205	Upgrade	65	60	85	45	45	67	50	51	75	4.7	6.0	7.3
304207	Upgrade	65	60	85	44	43	68	47	48	71	3.0	4.9	3.4
304209	Upgrade	65	60	85	33	33	54	36	37	59	3.1	3.8	4.9
304211	Upgrade	65	60	85	45	45	68	49	50	74	4.7	5.7	6.2
304212	Upgrade	65	60	85	43	42	66	46	47	70	3.4	5.3	3.9
304217	Upgrade	65	60	85	46	46	69	51	52	75	4.5	5.4	5.7
304219	Upgrade	65	60	85	33	34	57	38	39	62	4.7	5.3	5.4
304220	Upgrade	65	60	85	36	36	59	41	42	65	4.9	5.6	5.6
304222	Upgrade	65	60	85	45	44	69	46	47	70	1.4	3.7	1.5
304227	Upgrade	65	60	85	53	53	77	43	43	66	-10.1	-9.8	-11.3
304229	Upgrade	65	60	85	33	33	55	37	38	60	3.9	4.6	5.8



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
304238	Upgrade	65	60	85	43	42	68	46	47	70	3.0	5.0	2.3
304239	Upgrade	65	60	85	48	48	70	53	54	78	5.6	6.3	8.2
304240	Upgrade	65	60	85	45	44	67	49	50	74	4.2	5.7	6.6
304241	Upgrade	65	60	85	35	35	56	39	40	62	4.4	5.1	6.4
304245	Upgrade	65	60	85	41	41	64	45	46	69	4.3	4.9	5.3
304248	Upgrade	65	60	85	44	43	69	45	46	70	1.3	3.5	1.0
304255	Upgrade	65	60	85	44	42	68	46	47	69	2.3	4.5	1.4
304258	Upgrade	65	60	85	43	43	67	49	50	74	5.1	6.2	6.2
304260	Upgrade	65	60	85	41	41	64	47	48	71	5.9	6.6	7.2
304261	Upgrade	65	60	85	42	41	65	46	47	70	3.5	5.3	4.7
304266	Upgrade	65	60	85	35	35	57	38	39	61	3.5	4.3	3.6
304267	Upgrade	65	60	85	44	43	68	49	50	73	4.8	6.3	5.0
304269	Upgrade	65	60	85	41	42	64	47	48	71	6.0	6.6	6.5
304276	Upgrade	65	60	85	45	43	69	45	46	70	0.6	3.0	0.2
304282	Upgrade	65	60	85	44	43	70	46	47	71	2.3	4.3	1.0
304283	Upgrade	65	60	85	42	41	67	45	46	69	2.7	4.7	1.4
304288	Upgrade	65	60	85	44	43	69	47	48	72	3.0	5.0	3.2
304291	Upgrade	65	60	85	48	48	70	53	55	78	5.4	6.3	8.1
304292	Upgrade	65	60	85	44	43	68	48	49	73	4.6	6.2	4.6
304295	Upgrade	65	60	85	47	47	71	53	54	78	6.1	6.9	7.5
304298	Upgrade	65	60	85	46	46	69	52	53	77	6.2	7.0	7.9
304304	Upgrade	65	60	85	33	33	54	36	37	59	3.2	3.9	4.8
304309	Upgrade	65	60	85	42	41	65	44	46	69	2.4	4.5	3.3
304311	Upgrade	65	60	85	40	39	64	44	45	67	4.1	6.0	3.4
304316	Upgrade	65	60	85	46	44	70	47	48	71	1.4	3.7	1.1
304320	Upgrade	65	60	85	45	44	68	49	50	72	3.7	5.5	3.9
304321	Upgrade	65	60	85	44	43	66	48	49	72	3.8	5.6	5.7
304322	Upgrade	65	60	85	44	43	68	45	46	69	1.6	3.8	1.0
304330	Upgrade	65	60	85	47	47	71	46	47	71	-0.7	-0.1	0.2
304331	Upgrade	65	60	85	46	46	69	52	53	77	5.8	6.7	7.9
304335	Upgrade	65	60	85	42	42	65	46	47	71	4.0	5.8	6.0
304336	Upgrade	65	60	85	29	29	52	34	35	58	5.0	6.4	6.3
304337	Upgrade	65	60	85	43	42	65	46	47	71	3.5	5.4	5.2
304338	Upgrade	65	60	85	45	43	71	44	45	69	-0.4	2.0	-2.3
304341	Upgrade	65	60	85	46	45	67	50	51	75	4.3	5.6	8.0
304344	Upgrade	65	60	85	44	43	70	44	45	68	0.1	2.4	-1.4
304345	Upgrade	65	60	85	45	45	70	51	52	76	5.9	6.9	5.9
304347	Upgrade	65	60	85	28	28	47	34	35	57	6.1	7.0	9.2
304348	Upgrade	65	60	85	45	44	70	48	49	72	2.4	4.4	1.9
304351	Upgrade	65	60	85	48	49	72	47	48	71	-1.7	-1.1	-0.6
304357	Upgrade	65	60	85	47	47	69	52	53	77	5.3	6.4	8.0
304361	Upgrade	65	60	85	44	43	68	46	47	70	1.9	4.1	2.7
304362	Upgrade	65	60	85	45	45	70	48	50	72	3.0	5.0	2.3
304365	Upgrade	65	60	85	46	46	68	51	52	75	4.7	5.8	7.4
304369	Upgrade	65	60	85	46	44	71	45	46	69	-0.8	1.6	-2.6
304376	Upgrade	65	60	85	46	45	71	45	47	69	-0.6	2.0	-1.9
304382	Upgrade	65	60	85	46	45	70	49	50	73	2.4	4.5	2.6
304384	Upgrade	65	60	85	38	39	61	44	45	68	5.3	5.9	6.8
304386	Upgrade	65	60	85	44	43	69	44	45	68	0.2	2.6	-1.1
304387	Upgrade	65	60	85	40	39	63	44	45	68	3.9	5.6	5.4
304389	Upgrade	65	60	85	46	46	68	52	53	76	6.0	7.1	8.2

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
304397	Upgrade	65	60	85	46	45	71	46	47	70	-0.4	2.0	-1.9
304398	Upgrade	65	60	85	43	42	67	45	46	71	2.1	4.2	3.9
304404	Upgrade	65	60	85	35	35	57	40	41	63	4.9	5.7	6.1
304408	Upgrade	65	60	85	45	45	66	50	51	74	4.9	6.0	8.6
304409	Upgrade	65	60	85	43	42	66	46	47	70	3.6	5.4	4.9
304410	Upgrade	65	60	85	41	40	66	43	44	67	2.2	4.4	0.4
304413	Upgrade	65	60	85	39	39	62	40	41	64	1.2	1.9	2.2
304417	Upgrade	65	60	85	46	45	71	49	50	73	2.9	4.8	1.7
304420	Upgrade	65	60	85	43	43	67	48	49	71	4.6	6.1	4.9
304421	Upgrade	65	60	85	42	41	67	45	46	69	2.1	4.2	1.1
304424	Upgrade	65	60	85	33	32	58	35	36	59	2.5	4.3	0.5
304425	Upgrade	65	60	85	49	49	71	54	55	79	5.5	6.4	7.1
304426	Upgrade	65	60	85	48	48	70	53	54	78	4.8	5.9	7.3
304429	Upgrade	65	60	85	47	47	69	53	54	77	5.3	6.5	8.6
304434	Upgrade	65	60	85	38	39	61	44	45	67	5.4	6.0	5.9
304436	Upgrade	65	60	85	45	44	70	46	47	70	1.5	3.6	0.2
304440	Upgrade	65	60	85	43	42	67	46	47	70	2.4	4.4	2.2
304442	Upgrade	65	60	85	46	45	70	49	51	73	3.2	5.2	2.5
304443	Upgrade	65	60	85	47	47	70	52	53	77	5.2	6.2	7.0
304445	Upgrade	65	60	85	45	44	69	47	48	71	2.0	4.0	1.4
304447	Upgrade	65	60	85	47	47	71	49	50	73	2.0	2.8	2.7
304448	Upgrade	65	60	85	42	41	67	46	47	70	4.0	5.8	2.6
304449	Upgrade	65	60	85	47	47	69	52	54	77	5.7	6.8	8.2
304453	Upgrade	65	60	85	44	42	69	44	45	68	0.6	3.0	-0.7
304454	Upgrade	65	60	85	33	32	57	37	38	58	4.3	5.9	0.9
304461	Upgrade	65	60	85	45	44	68	49	50	72	3.9	5.7	4.9
304462	Upgrade	65	60	85	48	48	72	40	41	64	-7.8	-7.2	-7.8
304464	Upgrade	65	60	85	48	48	70	53	54	78	5.5	6.6	8.5
304468	Upgrade	65	60	85	45	44	71	46	47	70	0.8	3.2	-0.1
304470	Upgrade	65	60	85	46	45	71	48	49	72	1.9	4.1	1.1
304472	Upgrade	65	60	85	44	43	69	45	46	71	0.8	3.2	2.0
304474	Upgrade	65	60	85	37	38	58	42	43	64	4.5	5.2	6.2
304475	Upgrade	65	60	85	46	45	72	47	48	71	0.5	2.8	-1.1
304476	Upgrade	65	60	85	48	49	70	54	55	79	5.8	6.5	8.4
304478	Upgrade	65	60	85	34	34	56	39	40	62	4.7	5.4	6.0
304481	Upgrade	65	60	85	39	40	62	45	46	68	5.5	6.1	6.1
304483	Upgrade	65	60	85	39	39	61	46	47	70	6.9	7.5	9.5
304485	Upgrade	65	60	85	46	45	71	47	48	71	0.4	2.7	0.4
304486	Upgrade	65	60	85	45	44	71	46	47	71	1.3	3.5	0.2
304487	Upgrade	65	60	85	44	43	68	47	48	71	2.9	4.9	3.3
304488	Upgrade	65	60	85	43	42	66	46	47	70	3.3	5.2	4.6
304491	Upgrade	65	60	85	45	44	70	49	50	72	3.8	5.6	2.5
304492	Upgrade	65	60	85	47	47	69	52	53	77	4.7	5.8	7.3
304494	Upgrade	65	60	85	46	45	71	47	48	72	1.5	3.8	0.5
304496	Upgrade	65	60	85	33	32	58	36	37	59	3.2	5.0	0.7
304500	Upgrade	65	60	85	37	37	59	42	43	65	4.7	5.3	5.7
304502	Upgrade	65	60	85	44	43	69	47	48	70	2.2	4.3	1.5
304503	Upgrade	65	60	85	46	45	72	46	47	70	-0.4	2.1	-2.2
304505	Upgrade	65	60	85	45	44	69	49	50	73	3.9	5.7	3.4
304506	Upgrade	65	60	85	45	44	67	49	50	73	4.4	6.1	6.1
304507	Upgrade	65	60	85	43	43	65	48	49	72	5.5	6.2	6.3



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
304508	Upgrade	65	60	85	44	43	68	46	47	70	1.8	3.9	2.3
304514	Upgrade	65	60	85	47	46	73	47	48	71	-0.5	1.9	-2.1
304515	Upgrade	65	60	85	44	43	68	46	47	70	1.8	4.0	2.0
304516	Upgrade	65	60	85	49	49	72	54	55	79	5.2	6.3	7.3
304518	Upgrade	65	60	85	44	45	67	41	42	65	-3.4	-2.8	-2.3
304520	Upgrade	65	60	85	49	49	70	54	55	79	5.5	6.5	8.6
304521	Upgrade	65	60	85	41	40	66	45	46	69	4.1	5.8	2.9
304526	Upgrade	65	60	85	43	42	66	46	47	70	3.3	5.2	3.7
304530	Upgrade	65	60	85	50	50	73	56	57	81	6.1	7.0	8.0
304531	Upgrade	65	60	85	45	44	69	48	49	71	2.5	4.6	1.9
304532	Upgrade	65	60	85	46	44	72	45	46	69	-0.2	2.2	-2.2
304533	Upgrade	65	60	85	41	41	65	37	38	61	-4.1	-3.4	-4.2
304536	Upgrade	65	60	85	45	44	71	46	47	69	0.6	3.0	-1.4
304537	Upgrade	65	60	85	47	47	69	51	52	76	4.9	5.6	6.5
304541	Upgrade	65	60	85	45	44	69	48	49	72	2.7	4.7	2.9
304547	Upgrade	65	60	85	45	44	71	45	46	69	0.4	2.7	-2.3
304548	Upgrade	65	60	85	49	49	70	54	55	79	5.8	6.7	8.6
304550	Upgrade	65	60	85	46	45	70	47	48	72	1.3	3.6	1.3
304554	Upgrade	65	60	85	35	34	60	39	40	61	3.9	5.7	0.7
304558	Upgrade	65	60	85	43	42	65	47	48	71	3.9	5.7	5.7
304559	Upgrade	65	60	85	49	49	71	55	56	79	5.9	6.7	8.8
304564	Upgrade	65	60	85	43	42	67	47	48	70	3.4	5.3	3.2
304567	Upgrade	65	60	85	49	49	71	54	55	79	5.1	6.3	8.0
304568	Upgrade	65	60	85	43	42	68	46	47	70	2.7	4.7	2.4
304569	Upgrade	65	60	85	45	44	68	49	50	73	4.6	6.1	5.6
304571	Upgrade	65	60	85	42	41	67	46	47	69	3.8	5.6	2.8
304574	Upgrade	65	60	85	46	45	72	47	48	71	1.1	3.4	-1.1
304575	Upgrade	65	60	85	47	46	72	50	51	75	2.4	4.4	3.0
304576	Upgrade	65	60	85	44	44	66	49	50	73	5.1	5.8	6.6
304577	Upgrade	65	60	85	36	36	59	39	40	63	3.1	3.9	3.5
304581	Upgrade	65	60	85	42	43	64	48	49	71	5.5	6.1	6.6
304583	Upgrade	65	60	85	48	48	71	53	54	78	4.7	5.7	7.1
304586	Upgrade	65	60	85	48	48	71	54	55	79	5.9	6.8	8.0
304589	Upgrade	65	60	85	47	46	73	48	49	72	1.0	3.5	-0.3
304592	Upgrade	65	60	85	45	44	69	47	48	71	2.1	4.3	2.0
304603	New	60	55	80	-	-	-	42	43	66	-	-	-
304605	Upgrade	65	60	85	47	46	73	49	50	73	1.7	4.1	0.5
304609	Upgrade	65	60	85	43	43	68	46	47	71	2.7	4.6	2.4
304611	Upgrade	65	60	85	31	30	55	36	36	57	4.7	6.2	2.3
304612	Upgrade	65	60	85	56	56	81	36	36	56	-20.2	-20.2	-24.8
304616	Upgrade	65	60	85	47	46	68	52	53	77	5.2	6.6	8.3
304617	Upgrade	65	60	85	45	44	70	45	46	70	0.2	2.5	-0.3
304619	Upgrade	65	60	85	45	44	69	47	48	72	1.8	4.1	2.6
304621	Upgrade	65	60	85	41	41	63	46	47	69	5.3	6.0	6.2
304623	Upgrade	65	60	85	42	42	66	47	48	71	4.7	6.1	4.8
304627	Upgrade	65	60	85	42	42	66	46	47	70	3.9	5.6	4.4
304629	Upgrade	65	60	85	38	37	63	40	41	63	2.5	4.6	-0.2
304630	Upgrade	65	60	85	44	43	67	47	48	71	3.1	5.1	3.5
304635	Upgrade	65	60	85	48	48	70	54	55	79	5.7	6.6	8.6
304636	Upgrade	65	60	85	61	61	87	65	66	90	3.4	4.2	3.0
304642	Upgrade	65	60	85	44	43	67	48	49	72	3.7	5.6	5.1

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax
304643	Upgrade	65	60	85	42	42	67	46	47	70	3.5	5.5	2.7
304644	Upgrade	65	60	85	49	50	72	55	56	80	5.6	6.4	8.0
304645	Upgrade	65	60	85	56	56	81	35	36	56	-20.8	-20.8	-25.0
304647	Upgrade	65	60	85	34	34	57	38	39	62	4.4	5.1	5.1
304648	Upgrade	65	60	85	49	47	74	49	50	73	0.2	2.6	-1.0
304656	Upgrade	65	60	85	47	46	69	50	51	75	3.3	5.0	5.3
304660	Upgrade	65	60	85	46	45	72	46	47	70	-0.3	2.2	-2.2
304667	Upgrade	65	60	85	47	47	69	53	54	77	5.7	6.7	7.8
304673	Upgrade	65	60	85	46	45	69	49	50	73	3.3	5.3	3.8
304675	Upgrade	65	60	85	47	46	73	47	48	71	-0.4	2.0	-2.1
304677	Upgrade	65	60	85	47	47	70	52	53	77	4.6	5.9	7.0
304678	New	60	55	80	-	-	-	47	48	71	-	-	-
304679	Upgrade	65	60	85	47	45	72	45	46	69	-1.6	1.0	-3.3
304681	Upgrade	65	60	85	45	44	68	47	48	71	2.6	4.7	3.1
304683	Upgrade	65	60	85	43	42	66	47	48	71	3.5	5.4	4.6
304686	Upgrade	65	60	85	46	45	73	45	46	69	-1.6	1.0	-3.8
304687	Upgrade	65	60	85	42	41	66	45	47	70	3.5	5.3	3.7
304688	Upgrade	65	60	85	46	45	72	48	49	72	1.1	3.3	0.4
304689	Upgrade	65	60	85	40	39	65	43	43	66	2.9	4.9	0.8
304692	Upgrade	65	60	85	49	49	72	55	56	80	5.6	6.6	7.8
304695	Upgrade	65	60	85	45	44	67	49	50	72	4.2	6.1	5.6
304696	Upgrade	65	60	85	47	46	74	46	47	69	-1.8	0.8	-4.5
304697	Upgrade	65	60	85	48	48	71	54	55	79	6.2	7.0	8.5
304698	Upgrade	65	60	85	46	45	72	47	48	71	0.9	3.1	-0.4
304701	Upgrade	65	60	85	48	47	74	47	48	70	-1.8	0.9	-3.8
304703	Upgrade	65	60	85	45	44	69	48	49	71	2.3	4.5	1.8
304706	Upgrade	65	60	85	37	38	61	41	42	64	4.1	4.8	3.5
304707	Upgrade	65	60	85	41	42	65	47	48	71	5.6	6.3	5.5
304711	Upgrade	65	60	85	42	42	65	47	48	71	4.8	5.6	6.0
304714	Upgrade	65	60	85	49	48	71	52	53	75	3.4	5.1	3.6
304715	New	60	55	80	-	-	-	48	49	72	-	-	-
304716	Upgrade	65	60	85	41	41	65	47	48	71	5.7	6.4	5.6
304719	Upgrade	65	60	85	47	46	73	46	47	70	-1.1	1.4	-3.4
304723	Upgrade	65	60	85	49	49	71	55	56	80	6.1	6.8	8.7
304730	New	60	55	80	-	-	-	37	38	61	-	-	-
304739	Upgrade	65	60	85	51	51	73	57	58	82	6.0	7.1	8.2
304740	Upgrade	65	60	85	48	47	71	51	52	76	3.9	5.5	4.8
304742	Upgrade	65	60	85	47	46	74	48	49	72	0.2	2.6	-1.9
304746	Upgrade	65	60	85	46	45	70	50	51	74	3.7	5.6	4.2
304750	Upgrade	65	60	85	46	46	69	52	53	77	6.0	7.1	7.7
304751	Upgrade	65	60	85	42	41	65	45	45	68	3.0	4.9	2.8
304753	Upgrade	65	60	85	47	46	70	50	51	74	2.6	4.6	3.7
304755	Upgrade	65	60	85	40	40	63	45	46	69	5.3	5.9	6.1
304756	New	60	55	80	-	-	-	38	39	63	-	-	-
304757	Upgrade	65	60	85	48	48	69	53	54	77	4.8	6.1	8.0
304762	Upgrade	65	60	85	48	47	74	49	50	73	0.6	2.9	-0.4
304764	Upgrade	65	60	85	44	43	66	48	49	71	3.7	5.5	4.5
304766	New	60	55	80	-	-	-	47	48	72	-	-	-
304775	Upgrade	65	60	85	43	42	66	47	48	71	4.0	5.8	4.5
304776	Upgrade	65	60	85	46	45	71	47	48	71	0.5	2.9	0.1
304779	Upgrade	65	60	85	49	47	74	48	49	72	-0.9	1.6	-2.4



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmaz	LAeq,15hr	LAeq,9hr	LAmaz	LAeq,15hr	LAeq,9hr	LAmaz
304780	Upgrade	65	60	85	47	46	73	49	50	73	1.5	3.7	0.3
304782	Upgrade	65	60	85	49	49	72	55	56	80	6.0	6.9	8.7
304783	Upgrade	65	60	85	46	45	70	49	50	73	3.0	5.1	3.9
304787	Upgrade	65	60	85	49	49	73	48	49	72	-1.6	-0.9	-1.0
304788	Upgrade	65	60	85	40	40	63	45	46	69	5.7	6.4	5.9
304790	Upgrade	65	60	85	45	44	70	46	47	70	0.5	2.7	0.0
304792	Upgrade	65	60	85	49	49	72	55	57	80	6.2	7.1	8.8
304800	Upgrade	65	60	85	49	49	73	46	47	70	-2.8	-2.0	-2.5
304801	Upgrade	65	60	85	47	45	71	46	47	70	-0.8	1.6	-1.1
304804	Upgrade	65	60	85	44	43	68	45	46	70	1.2	3.4	1.8
304807	Upgrade	65	60	85	46	45	70	49	50	73	2.6	4.6	3.2
304808	Upgrade	65	60	85	42	41	67	45	46	67	3.0	5.0	0.8
304818	Upgrade	65	60	85	41	41	64	47	48	70	5.6	6.2	6.5
304822	Upgrade	65	60	85	49	49	71	53	54	77	3.8	5.4	5.1
304824	Upgrade	65	60	85	42	42	66	47	48	71	4.8	5.4	5.6
304825	Upgrade	65	60	85	43	42	66	47	48	70	3.8	5.6	4.3
304826	Upgrade	65	60	85	58	59	83	43	44	67	-15.0	-14.6	-16.7
304827	Upgrade	65	60	85	49	47	75	48	49	72	-1.0	1.5	-3.0
304829	Upgrade	65	60	85	47	47	71	54	55	79	6.3	7.3	8.1
304830	Upgrade	65	60	85	40	41	64	46	47	70	5.4	6.1	5.9
304832	Upgrade	65	60	85	42	43	65	47	48	71	4.9	5.6	5.5
304833	Upgrade	65	60	85	39	40	63	44	46	69	5.1	5.9	5.9
304834	Upgrade	65	60	85	49	49	71	55	56	80	6.1	7.1	8.9
304835	Upgrade	65	60	85	50	50	72	56	57	80	6.1	7.0	8.3
304839	Upgrade	65	60	85	43	42	67	46	47	70	3.0	5.0	3.4
304841	Upgrade	65	60	85	47	46	73	48	49	72	0.8	3.1	-1.0
304844	Upgrade	65	60	85	47	46	73	47	48	71	-0.7	1.8	-2.5
304846	Upgrade	65	60	85	41	41	65	46	47	69	4.5	6.2	4.3
304850	Upgrade	65	60	85	45	45	66	50	51	75	5.3	6.0	8.4
304856	Upgrade	65	60	85	48	46	74	46	47	70	-1.3	1.4	-3.3
304859	Upgrade	65	60	85	49	49	71	55	56	80	6.3	7.0	8.8
304863	Upgrade	65	60	85	49	49	71	55	56	80	5.8	6.8	9.0
304866	Upgrade	65	60	85	48	47	72	50	51	74	2.4	4.4	2.1
304872	Upgrade	65	60	85	50	50	72	56	57	81	5.9	7.0	8.6
304878	Upgrade	65	60	85	49	48	75	48	49	72	-1.4	1.1	-2.6
304882	Upgrade	65	60	85	50	48	77	47	48	71	-2.7	-0.1	-5.8
304884	Upgrade	65	60	85	38	39	62	44	45	68	5.3	6.1	5.9
304888	Upgrade	65	60	85	40	40	63	45	47	69	5.6	6.4	6.6
304890	Upgrade	65	60	85	47	46	72	47	49	71	0.6	3.0	-0.6
304894	Upgrade	65	60	85	50	50	72	55	56	80	5.8	6.7	8.4
304895	Upgrade	65	60	85	43	42	67	46	47	70	2.9	4.8	3.2
304897	Upgrade	65	60	85	48	47	73	48	49	73	0.3	2.7	-0.2
304902	Upgrade	65	60	85	47	46	73	48	49	72	0.9	3.1	-0.6
304903	Upgrade	65	60	85	48	48	71	53	54	78	5.1	6.4	7.5
304908	Upgrade	65	60	85	39	40	62	45	46	69	5.4	6.0	6.9
304909	Upgrade	65	60	85	44	43	66	47	48	71	3.7	5.6	4.8
304914	Upgrade	65	60	85	49	48	74	50	51	74	0.6	3.0	0.7
304915	Upgrade	65	60	85	50	50	73	56	57	81	6.1	7.0	8.3
304919	Upgrade	65	60	85	49	47	74	48	49	73	-0.5	2.0	-1.0
304924	Upgrade	65	60	85	49	50	73	55	56	80	5.7	6.6	7.2
304930	Upgrade	65	60	85	44	45	66	50	51	73	5.4	6.1	6.9

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax
304932	Upgrade	65	60	85	49	50	72	55	56	80	6.0	6.9	8.6
304933	Upgrade	65	60	85	42	41	67	47	48	71	5.0	6.3	4.1
304936	Upgrade	65	60	85	45	46	67	47	48	72	2.0	2.7	5.4
304942	Upgrade	65	60	85	42	42	65	47	48	71	4.7	5.4	5.3
304944	Upgrade	65	60	85	45	43	68	47	48	70	2.2	4.4	2.0
304945	Upgrade	65	60	85	50	50	73	56	57	81	5.7	6.8	8.3
304948	Upgrade	65	60	85	44	43	68	47	48	70	2.3	4.4	2.6
304949	Upgrade	65	60	85	37	38	61	40	41	63	2.7	3.4	2.7
304952	Upgrade	65	60	85	49	48	73	52	53	76	2.8	4.8	3.3
304955	Upgrade	65	60	85	39	39	61	44	45	67	5.4	6.1	5.9
304958	Upgrade	65	60	85	54	55	80	44	45	68	-10.2	-9.8	-12.0
304962	Upgrade	65	60	85	47	45	72	47	48	73	0.2	2.6	1.4
304965	Upgrade	65	60	85	44	43	67	48	49	72	3.7	5.6	4.8
304966	Upgrade	65	60	85	45	45	67	51	52	75	5.4	6.8	8.1
304967	Upgrade	65	60	85	44	43	68	47	48	69	2.3	4.3	1.0
304968	Upgrade	65	60	85	42	42	64	47	48	71	5.7	6.4	6.3
304969	Upgrade	65	60	85	45	44	68	50	51	75	5.5	6.7	6.7
304972	Upgrade	65	60	85	48	47	73	49	50	74	1.5	3.7	0.3
304980	Upgrade	65	60	85	49	49	72	55	56	80	5.7	6.7	7.3
304982	Upgrade	65	60	85	50	50	72	56	57	80	5.7	6.5	8.4
304987	Upgrade	65	60	85	50	50	72	56	57	81	5.8	6.9	8.5
304988	Upgrade	65	60	85	46	45	69	49	50	73	3.7	5.5	4.8
304991	Upgrade	65	60	85	45	45	67	50	51	73	4.9	6.4	5.7
304992	Upgrade	65	60	85	39	39	63	44	45	69	5.3	6.1	5.7
304993	Upgrade	65	60	85	44	43	68	46	47	70	2.0	4.1	1.9
305007	Upgrade	65	60	85	46	44	70	47	48	70	1.6	3.9	0.7
305013	Upgrade	65	60	85	43	43	67	47	48	72	4.6	5.3	5.5
305015	Upgrade	65	60	85	44	45	67	52	53	76	7.3	7.9	9.0
305022	Upgrade	65	60	85	50	50	73	56	57	81	5.6	6.5	7.7
305031	Upgrade	65	60	85	36	37	60	42	43	66	5.4	6.1	5.6
305034	Upgrade	65	60	85	49	49	72	55	56	80	5.9	6.7	8.2
305037	Upgrade	65	60	85	45	45	70	50	51	75	4.9	6.2	4.7
305038	New	60	55	80	-	-	-	39	40	63	-	-	-
305039	Upgrade	65	60	85	41	42	64	46	47	70	4.9	5.5	5.4
305040	Upgrade	65	60	85	45	44	70	47	48	71	2.4	4.5	0.9
305042	Upgrade	65	60	85	48	48	71	53	54	78	5.6	6.7	6.8
305043	Upgrade	65	60	85	45	44	71	46	47	70	1.0	3.4	-0.5
305046	Upgrade	65	60	85	45	44	69	48	49	72	2.6	4.5	2.9
305048	Upgrade	65	60	85	51	51	73	57	58	81	6.0	7.1	8.1
305049	Upgrade	65	60	85	47	45	73	47	48	73	-0.2	2.3	-0.3
305053	Upgrade	65	60	85	44	44	66	49	50	72	5.4	6.1	6.5
305062	Upgrade	65	60	85	48	47	73	50	51	74	1.2	3.4	1.0
305068	Upgrade	65	60	85	48	48	71	46	47	70	-2.1	-1.4	-1.4
305072	Upgrade	65	60	85	43	44	66	48	49	72	4.7	5.5	6.2
305075	Upgrade	65	60	85	43	43	67	48	49	73	4.9	5.7	5.5
305080	Upgrade	65	60	85	50	50	72	56	57	81	5.8	6.7	8.2
305081	New	60	55	80	-	-	-	44	45	68	-	-	-
305083	Upgrade	65	60	85	51	51	75	57	58	82	5.9	6.8	7.1
305089	Upgrade	65	60	85	37	38	62	43	44	68	5.5	6.3	5.4
305096	Upgrade	65	60	85	45	44	67	49	50	73	4.3	5.9	5.5
305105	Upgrade	65	60	85	42	42	65	47	48	71	5.3	5.9	6.2



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA				Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmix	LAeq,15hr	LAeq,9hr	LAmix	LAeq,15hr	LAeq,9hr	LAmix	
305106	Upgrade	65	60	85	51	51	73	57	58	81	5.7	6.6	7.9	
305108	Upgrade	65	60	85	46	44	71	46	47	71	0.8	3.1	0.2	
305111	Upgrade	65	60	85	45	44	68	50	51	74	4.9	6.4	5.5	
305114	Upgrade	65	60	85	42	42	65	46	47	70	4.0	5.5	4.6	
305116	Upgrade	65	60	85	49	48	71	54	55	79	5.1	6.4	7.2	
305117	Upgrade	65	60	85	48	48	71	54	55	79	5.9	6.9	7.6	
305123	Upgrade	65	60	85	50	50	72	56	57	80	5.9	6.8	8.7	
305124	Upgrade	65	60	85	42	41	65	46	47	70	4.2	5.8	4.5	
305125	Upgrade	65	60	85	47	46	72	47	48	74	-0.2	2.2	1.8	
305127	Upgrade	65	60	85	46	44	72	47	48	71	0.8	3.1	-1.4	
305130	Upgrade	65	60	85	46	45	71	48	49	72	1.7	3.9	1.5	
305136	Upgrade	65	60	85	62	62	87	65	66	90	3.3	4.0	3.0	
305137	Upgrade	65	60	85	51	51	75	57	58	82	6.0	6.9	7.4	
305139	Upgrade	65	60	85	45	44	68	49	50	73	3.9	5.7	4.7	
305151	Upgrade	65	60	85	45	44	69	49	50	73	3.6	5.4	3.9	
305156	Upgrade	65	60	85	45	44	70	47	48	71	1.3	3.5	0.9	
305160	Upgrade	65	60	85	45	44	70	47	48	70	1.5	3.8	0.0	
305162	Upgrade	65	60	85	50	49	75	51	52	75	0.9	3.2	-0.2	
305163	Upgrade	65	60	85	46	45	72	46	47	72	-0.2	2.4	-0.6	
305164	Upgrade	65	60	85	51	51	74	55	56	80	3.9	5.6	6.7	
305170	Upgrade	65	60	85	50	50	72	56	57	80	5.9	6.8	8.4	
305173	Upgrade	65	60	85	44	43	66	47	48	71	3.0	4.9	4.3	
305174	Upgrade	65	60	85	50	51	73	56	57	81	5.9	6.7	8.2	
305175	Upgrade	65	60	85	45	44	69	48	49	72	2.5	4.5	2.9	
305177	Upgrade	65	60	85	49	49	73	54	55	78	5.1	6.2	5.9	
305181	Upgrade	65	60	85	42	43	66	49	50	72	6.3	7.0	6.4	
305182	Upgrade	65	60	85	42	42	66	47	48	71	5.3	6.1	5.5	
305187	Upgrade	65	60	85	39	39	64	45	46	69	5.7	6.4	5.2	
305188	Upgrade	65	60	85	43	43	68	48	49	71	4.2	5.8	3.2	
305189	New	60	55	80	-	-	-	44	45	68	-	-	-	
305193	Upgrade	65	60	85	39	40	62	45	46	69	5.2	5.9	6.3	
305194	Upgrade	65	60	85	46	45	71	50	51	74	3.6	5.5	3.3	
305199	Upgrade	65	60	85	47	46	69	50	51	74	3.9	5.5	4.6	
305203	Upgrade	65	60	85	45	44	67	49	50	73	4.1	5.8	5.6	
305207	Upgrade	65	60	85	45	45	67	50	51	73	5.5	6.2	6.7	
305208	Upgrade	65	60	85	56	56	81	42	43	66	-13.4	-13.0	-15.4	
305211	Upgrade	65	60	85	50	50	73	56	57	81	5.8	6.7	7.6	
305215	Upgrade	65	60	85	45	44	71	48	49	72	3.0	4.9	1.2	
305216	Upgrade	65	60	85	36	37	60	42	43	66	5.6	6.3	5.7	
305218	Upgrade	65	60	85	42	42	65	47	48	71	5.4	6.2	6.0	
305219	Upgrade	65	60	85	42	42	66	48	49	72	5.4	6.2	5.9	
305223	Upgrade	65	60	85	46	45	70	47	48	71	0.9	3.1	0.3	
305225	Upgrade	65	60	85	45	44	68	49	50	72	3.7	5.4	3.4	
305235	Upgrade	65	60	85	46	46	71	50	51	73	3.3	5.2	2.2	
305236	Upgrade	65	60	85	46	45	71	46	47	71	0.5	2.8	0.0	
305239	Upgrade	65	60	85	40	39	63	44	45	67	3.9	5.6	4.3	
305241	Upgrade	65	60	85	45	44	69	48	49	71	2.9	4.9	2.8	
305244	Upgrade	65	60	85	42	42	64	47	48	71	5.0	5.7	6.3	
305248	Upgrade	65	60	85	44	44	69	50	51	74	5.5	6.7	5.6	
305253	Upgrade	65	60	85	45	44	70	48	49	72	2.8	4.8	2.1	
305254	Upgrade	65	60	85	47	46	74	47	48	70	-0.3	2.2	-3.6	

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax
305256	Upgrade	65	60	85	50	51	74	56	57	81	5.8	6.7	6.7
305257	Upgrade	65	60	85	44	44	68	48	49	72	3.7	5.5	4.0
305269	Upgrade	65	60	85	51	51	74	57	58	82	6.2	7.3	8.2
305280	Upgrade	65	60	85	45	43	70	46	47	70	1.5	3.8	-0.4
305284	Upgrade	65	60	85	41	40	67	44	45	68	2.4	4.4	1.2
305286	Upgrade	65	60	85	55	56	81	45	46	69	-9.9	-9.4	-11.4
305295	Upgrade	65	60	85	56	56	81	43	44	67	-13.1	-12.6	-14.1
305296	Upgrade	65	60	85	56	56	81	41	42	66	-14.5	-14.0	-15.2
305298	Upgrade	65	60	85	40	40	62	46	47	69	5.9	6.5	7.2
305299	Upgrade	65	60	85	45	44	70	47	48	70	2.4	4.5	0.5
305302	Upgrade	65	60	85	50	51	74	56	57	81	5.7	6.5	7.4
305303	Upgrade	65	60	85	41	41	64	46	47	70	5.3	6.0	6.0
305308	Upgrade	65	60	85	46	46	70	50	51	74	3.8	5.6	4.6
305311	Upgrade	65	60	85	45	44	70	47	48	71	2.0	4.2	0.9
305315	Upgrade	65	60	85	42	42	65	43	44	67	1.4	2.1	2.6
305316	Upgrade	65	60	85	46	45	71	47	48	71	1.3	3.7	0.1
305322	Upgrade	65	60	85	46	45	73	47	48	70	0.5	2.8	-2.5
305323	Upgrade	65	60	85	54	54	79	43	44	67	-10.9	-10.4	-11.7
305326	Upgrade	65	60	85	46	45	69	50	51	73	3.5	5.3	4.3
305327	Upgrade	65	60	85	40	39	64	43	43	65	2.5	4.4	1.0
305328	Upgrade	65	60	85	47	47	71	47	48	71	-0.1	0.7	0.5
305330	Upgrade	65	60	85	45	44	69	48	49	71	2.5	4.6	1.5
305331	Upgrade	65	60	85	47	46	69	51	52	75	4.2	5.8	5.5
305334	Upgrade	65	60	85	44	43	67	49	50	73	4.7	6.4	5.3
305336	Upgrade	65	60	85	50	50	73	56	57	81	5.8	6.7	7.3
305341	Upgrade	65	60	85	51	52	77	44	45	69	-7.1	-6.6	-8.0
305342	Upgrade	65	60	85	44	44	68	48	49	72	4.0	5.7	3.9
305353	Upgrade	65	60	85	47	45	71	47	48	70	0.4	2.8	-0.6
305355	Upgrade	65	60	85	45	44	68	48	49	72	3.3	5.0	4.7
305361	Upgrade	65	60	85	41	41	66	47	48	72	6.7	7.6	5.5
305362	Upgrade	65	60	85	48	46	74	47	48	71	-0.4	2.1	-2.7
305363	Upgrade	65	60	85	46	45	72	47	48	70	0.7	3.1	-1.6
305365	Upgrade	65	60	85	46	45	69	49	50	73	3.4	5.3	4.1
305367	Upgrade	65	60	85	43	42	67	47	48	71	3.8	5.6	3.7
305368	Upgrade	65	60	85	43	43	67	47	48	71	3.6	5.4	4.1
305371	Upgrade	65	60	85	46	45	70	49	50	73	2.7	4.6	2.7
305373	Upgrade	65	60	85	51	51	75	57	58	82	6.1	6.9	7.2
305380	Upgrade	65	60	85	50	51	75	43	44	68	-7.1	-6.5	-7.1
305382	Upgrade	65	60	85	44	43	68	46	47	70	2.2	4.4	1.6
305385	Upgrade	65	60	85	46	45	72	48	49	72	1.9	4.1	0.6
305404	Upgrade	65	60	85	46	45	71	47	48	71	0.9	3.2	0.3
305409	Upgrade	65	60	85	43	42	68	47	48	71	3.5	5.3	3.2
305410	Upgrade	65	60	85	45	44	69	48	49	73	3.4	5.2	3.5
305412	Upgrade	65	60	85	52	52	75	58	59	82	5.8	6.6	7.4
305413	Upgrade	65	60	85	42	41	66	46	47	69	3.3	5.2	3.1
305418	Upgrade	65	60	85	45	43	68	47	48	70	2.2	4.3	2.1
305421	Upgrade	65	60	85	48	46	73	47	48	71	-0.9	1.8	-2.6
305424	Upgrade	65	60	85	51	52	76	58	59	83	6.1	7.0	7.1
305427	Upgrade	65	60	85	42	41	66	45	46	68	2.9	4.8	2.7
305428	Upgrade	65	60	85	46	45	72	48	49	72	1.9	4.1	0.4
305430	Upgrade	65	60	85	46	45	71	47	48	71	1.4	3.7	0.1



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax
305433	Upgrade	65	60	85	43	42	66	46	47	70	3.0	5.0	3.5
305443	Upgrade	65	60	85	45	44	69	48	49	71	2.6	4.6	2.0
305446	Upgrade	65	60	85	46	45	70	50	51	75	4.4	6.0	5.0
305450	Upgrade	65	60	85	49	50	73	46	47	70	-2.9	-2.4	-2.6
305454	Upgrade	65	60	85	52	52	75	58	59	82	5.7	6.6	7.3
305456	Upgrade	65	60	85	46	45	70	48	49	72	2.7	4.7	2.3
305458	Upgrade	65	60	85	46	45	71	50	51	74	3.5	5.3	2.9
305462	Upgrade	65	60	85	47	46	70	50	51	74	3.1	5.0	4.3
305468	Upgrade	65	60	85	47	46	70	49	50	73	2.1	4.3	2.5
305474	Upgrade	65	60	85	43	42	69	48	49	72	4.5	6.2	3.0
305476	Upgrade	65	60	85	52	52	75	58	59	83	5.9	6.9	7.5
305481	Upgrade	65	60	85	43	42	67	46	47	69	3.2	5.1	2.7
305488	Upgrade	65	60	85	46	45	69	49	50	73	3.3	5.2	3.4
305489	Upgrade	65	60	85	41	40	64	44	45	67	2.7	4.4	2.9
305490	Upgrade	65	60	85	44	43	68	47	48	71	3.2	5.1	2.8
305491	Upgrade	65	60	85	45	45	70	50	51	74	5.2	6.5	4.4
305493	Upgrade	65	60	85	45	45	67	48	49	71	3.1	3.8	4.6
305499	Upgrade	65	60	85	45	44	70	48	49	72	2.6	4.7	1.9
305503	Upgrade	65	60	85	43	43	66	47	48	72	4.7	5.3	5.8
305507	Upgrade	65	60	85	48	48	72	48	49	73	0.3	1.0	0.6
305509	Upgrade	65	60	85	52	52	76	58	59	83	5.9	6.8	6.3
305512	Upgrade	65	60	85	45	44	70	47	48	71	2.1	4.2	0.8
305516	Upgrade	65	60	85	46	46	68	50	51	74	4.6	5.3	5.9
305517	Upgrade	65	60	85	42	42	65	46	47	70	3.6	5.2	4.5
305519	Upgrade	65	60	85	45	45	67	50	51	73	4.6	5.3	6.0
305523	Upgrade	65	60	85	46	45	69	49	50	73	3.7	5.4	4.2
305525	Upgrade	65	60	85	40	39	62	44	45	67	4.5	5.6	5.1
305530	Upgrade	65	60	85	43	44	66	48	49	72	4.7	5.4	6.0
305532	Upgrade	65	60	85	44	43	68	47	48	71	2.6	4.6	2.2
305533	Upgrade	65	60	85	43	43	65	47	48	71	4.7	5.4	6.2
305534	Upgrade	65	60	85	46	45	70	49	50	74	3.4	5.2	3.6
305539	Upgrade	65	60	85	52	52	77	59	60	84	6.3	7.1	7.0
305541	Upgrade	65	60	85	43	43	66	47	48	72	4.6	5.3	6.0
305544	Upgrade	65	60	85	44	43	69	48	49	71	3.4	5.4	2.2
305545	Upgrade	65	60	85	45	46	68	50	51	74	4.6	5.3	5.9
305548	Upgrade	65	60	85	40	40	63	44	45	68	4.3	5.4	4.6
305552	Upgrade	65	60	85	43	44	66	49	50	72	5.2	6.0	6.8
305555	Upgrade	65	60	85	41	41	64	45	46	69	4.3	5.4	4.8
305557	Upgrade	65	60	85	46	45	70	49	50	73	2.7	4.7	3.0
305558	Upgrade	65	60	85	53	53	77	59	60	84	6.3	7.2	6.9
305566	Upgrade	65	60	85	42	41	64	46	47	68	4.0	5.5	4.3
305567	Upgrade	65	60	85	39	38	61	43	43	65	4.1	5.3	4.6
305568	Upgrade	65	60	85	44	43	68	46	47	70	2.5	4.6	2.3
305570	Upgrade	65	60	85	43	44	66	48	49	72	4.7	5.3	6.3
305571	Upgrade	65	60	85	42	42	65	48	49	72	5.8	6.5	7.1
305572	Upgrade	65	60	85	42	43	65	47	48	71	4.6	5.4	6.1
305574	Upgrade	65	60	85	43	43	66	48	49	72	4.7	5.5	6.0
305577	Upgrade	65	60	85	46	45	72	47	48	71	1.0	3.3	-0.5
305579	Upgrade	65	60	85	43	43	66	47	48	72	4.5	5.2	5.7
305582	Upgrade	65	60	85	45	45	66	49	50	73	4.6	5.3	6.7
305583	Upgrade	65	60	85	45	45	70	49	50	73	3.7	5.4	3.1

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmix	LAeq,15hr	LAeq,9hr	LAmix	LAeq,15hr	LAeq,9hr	LAmix
305584	Upgrade	65	60	85	42	42	64	47	48	71	5.8	6.4	6.6
305585	Upgrade	65	60	85	46	45	70	48	49	72	2.0	4.3	1.8
305588	Upgrade	65	60	85	46	44	70	47	48	71	1.4	3.6	0.2
305590	Upgrade	65	60	85	41	40	63	45	46	68	4.2	5.4	4.7
305592	Upgrade	65	60	85	43	42	67	46	47	70	2.7	4.7	2.6
305598	Upgrade	65	60	85	53	53	77	59	60	84	6.3	7.1	6.8
305599	Upgrade	65	60	85	43	43	69	47	48	71	3.7	5.6	2.0
305600	Upgrade	65	60	85	44	44	66	48	49	72	4.6	5.3	5.9
305601	Upgrade	65	60	85	43	43	66	47	48	71	4.6	5.3	5.9
305602	Upgrade	65	60	85	48	47	74	49	50	74	1.4	3.5	-0.1
305603	Upgrade	65	60	85	41	41	63	47	48	69	5.8	6.6	6.6
305606	Upgrade	65	60	85	45	44	69	47	48	71	2.7	4.6	1.6
305607	Upgrade	65	60	85	52	52	76	58	59	83	6.1	7.0	7.4
305611	Upgrade	65	60	85	41	41	65	46	47	69	4.7	6.3	4.5
305613	Upgrade	65	60	85	44	44	68	49	50	73	5.3	6.1	5.2
305615	Upgrade	65	60	85	38	37	60	42	43	65	4.1	5.3	4.4
305618	Upgrade	65	60	85	43	44	65	48	49	72	4.6	5.4	6.4
305619	Upgrade	65	60	85	40	40	64	45	46	69	4.6	5.3	5.1
305620	Upgrade	65	60	85	45	44	70	47	48	70	1.8	4.0	0.5
305621	Upgrade	65	60	85	40	40	61	45	45	67	4.1	5.4	5.2
305624	Upgrade	65	60	85	44	44	66	48	49	72	4.7	5.4	6.6
305627	Upgrade	65	60	85	43	42	67	46	47	70	3.2	5.1	2.8
305629	Upgrade	65	60	85	42	43	65	48	50	72	6.3	7.0	6.6
305632	Upgrade	65	60	85	44	43	70	46	47	69	1.6	3.9	-0.7
305635	Upgrade	65	60	85	53	53	78	59	60	84	6.2	6.9	6.9
305636	Upgrade	65	60	85	42	42	65	47	48	71	5.5	6.2	6.0
305637	Upgrade	65	60	85	44	44	66	48	50	72	4.5	5.3	5.9
305639	Upgrade	65	60	85	43	43	68	48	49	72	4.7	6.1	4.0
305641	Upgrade	65	60	85	42	42	64	47	47	70	4.2	5.6	5.6
305644	Upgrade	65	60	85	42	41	67	47	48	70	4.8	6.3	3.2
305645	Upgrade	65	60	85	38	37	59	42	43	64	4.1	5.5	5.3
305652	Upgrade	65	60	85	54	54	78	60	61	86	6.3	7.1	7.2
305655	Upgrade	65	60	85	42	43	67	45	46	69	2.8	3.4	2.1
305656	Upgrade	65	60	85	44	43	68	48	49	71	3.9	5.7	3.5
305657	Upgrade	65	60	85	45	43	70	47	48	71	2.7	4.8	1.2
305658	Upgrade	65	60	85	44	43	68	47	48	70	2.4	4.4	1.8
305662	Upgrade	65	60	85	43	42	70	47	48	72	4.4	5.9	1.9
305663	Upgrade	65	60	85	49	49	74	50	51	74	0.9	1.6	0.7
305664	Upgrade	65	60	85	44	44	66	48	49	72	4.8	5.4	6.3
305666	Upgrade	65	60	85	42	42	64	48	49	71	5.8	6.6	6.8
305668	Upgrade	65	60	85	43	43	70	48	49	71	4.3	5.9	1.6
305670	Upgrade	65	60	85	47	45	72	48	49	72	1.4	3.7	0.0
305671	Upgrade	65	60	85	38	37	59	42	42	64	4.1	5.4	4.5
305673	Upgrade	65	60	85	41	42	63	47	48	70	5.5	6.3	6.6
305675	Upgrade	65	60	85	41	42	64	47	48	70	5.6	6.3	6.3
305677	Upgrade	65	60	85	40	40	63	45	46	69	5.9	6.5	6.6
305678	Upgrade	65	60	85	53	54	77	59	60	84	6.0	6.9	7.3
305680	Upgrade	65	60	85	41	41	66	46	46	69	4.2	5.8	3.4
305681	Upgrade	65	60	85	44	43	67	47	48	70	3.1	4.9	3.1
305685	Upgrade	65	60	85	44	43	69	47	48	71	3.1	5.1	1.2
305687	Upgrade	65	60	85	59	60	88	65	66	90	5.8	6.5	2.2



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA			
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	
305697	Upgrade	65	60	85	85	54	54	78	59	61	85	5.9	6.8	6.8
305698	Upgrade	65	60	85	43	44	66	48	49	72	4.6	5.3	5.8	
305700	Upgrade	65	60	85	40	40	62	46	47	69	5.7	6.4	6.4	
305705	Upgrade	65	60	85	52	52	76	52	53	76	0.2	0.8	0.2	
305707	Upgrade	65	60	85	40	40	63	46	47	69	5.8	6.5	5.8	
305714	Upgrade	65	60	85	45	44	70	48	49	72	2.7	4.7	1.5	
305715	Upgrade	65	60	85	37	36	60	41	42	62	4.0	5.4	1.8	
305716	Upgrade	65	60	85	43	43	68	48	48	71	4.4	5.9	3.2	
305717	Upgrade	65	60	85	41	42	63	47	48	69	5.7	6.3	6.7	
305720	Upgrade	65	60	85	44	43	68	48	49	72	3.9	5.6	4.3	
305722	Upgrade	65	60	85	40	40	62	44	45	68	4.8	5.6	5.3	
305724	Upgrade	65	60	85	54	54	77	60	61	85	5.6	6.7	7.2	
305727	Upgrade	65	60	85	42	42	68	47	48	71	4.4	5.8	2.8	
305732	Upgrade	65	60	85	42	42	65	46	47	68	4.1	5.5	2.6	
305733	Upgrade	65	60	85	44	44	66	49	50	73	5.1	5.9	6.3	
305734	Upgrade	65	60	85	46	45	70	49	50	73	3.1	5.0	2.9	
305736	Upgrade	65	60	85	45	45	68	50	51	74	5.5	6.2	5.8	
305738	Upgrade	65	60	85	41	40	62	45	46	67	4.5	5.9	4.5	
305740	Upgrade	65	60	85	43	44	67	49	50	73	5.4	6.1	5.9	
305741	Upgrade	65	60	85	41	42	63	47	48	69	5.6	6.3	6.8	
305742	Upgrade	65	60	85	41	41	65	44	45	66	2.8	4.4	1.2	
305744	Upgrade	65	60	85	35	34	57	39	40	60	4.5	5.9	2.7	
305746	Upgrade	65	60	85	53	54	78	59	60	84	5.9	6.8	6.4	
305748	Upgrade	65	60	85	39	40	63	45	46	68	5.4	6.0	5.3	
305749	Upgrade	65	60	85	44	44	67	48	49	72	4.6	5.6	5.6	
305751	Upgrade	65	60	85	53	52	76	55	56	79	1.7	3.3	2.9	
305753	Upgrade	65	60	85	42	41	68	46	47	70	4.3	6.0	2.2	
305758	Upgrade	65	60	85	46	45	70	49	50	73	2.4	4.6	2.2	
305759	Upgrade	65	60	85	53	52	76	55	56	79	1.8	3.5	3.5	
305760	Upgrade	65	60	85	40	39	61	43	44	65	3.6	5.1	3.9	
305763	Upgrade	65	60	85	36	35	61	40	41	61	4.3	5.7	-0.1	
305764	Upgrade	65	60	85	54	54	79	46	47	71	-7.9	-7.2	-8.5	
305765	Upgrade	65	60	85	41	42	63	46	47	69	4.9	5.6	6.2	
305767	Upgrade	65	60	85	54	54	79	27	28	52	-26.8	-26.1	-26.9	
305768	Upgrade	65	60	85	43	44	66	48	49	72	4.6	5.3	5.9	
305769	Upgrade	65	60	85	48	48	70	53	54	77	4.7	5.5	6.4	
305771	Upgrade	65	60	85	39	38	61	43	44	64	4.1	5.5	2.8	
305772	Upgrade	65	60	85	48	48	70	53	54	77	4.7	5.4	6.4	
305775	Upgrade	65	60	85	54	54	78	60	61	85	5.8	6.7	7.0	
305777	Upgrade	65	60	85	46	45	70	49	50	73	3.1	5.1	2.9	
305787	Upgrade	65	60	85	46	45	69	49	50	72	2.8	4.7	2.6	
305788	Upgrade	65	60	85	42	42	66	47	48	72	4.6	5.4	5.1	
305790	Upgrade	65	60	85	45	44	67	49	50	73	4.6	5.9	5.6	
305794	Upgrade	65	60	85	42	42	66	47	48	71	5.4	6.2	5.4	
305795	Upgrade	65	60	85	54	54	78	45	46	69	-9.3	-8.6	-9.2	
305799	Upgrade	65	60	85	40	40	61	45	46	68	4.9	5.7	6.2	
305800	Upgrade	65	60	85	54	54	79	59	60	84	5.3	6.2	5.3	
305802	Upgrade	65	60	85	46	45	70	49	50	72	2.8	4.8	1.9	
305804	Upgrade	65	60	85	38	37	62	42	42	62	3.8	5.6	-0.2	
305807	Upgrade	65	60	85	43	43	66	48	49	72	5.2	6.0	5.9	
305815	Upgrade	65	60	85	44	43	66	48	49	72	4.1	5.9	5.4	

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA				Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	
305817	Upgrade	65	60	85	44	43	65	48	49	71	4.5	5.7	6.0	
305819	Upgrade	65	60	85	40	40	64	45	46	69	4.8	5.6	5.3	
305820	Upgrade	65	60	85	53	53	78	52	53	77	-0.5	0.3	-0.8	
305821	Upgrade	65	60	85	41	41	61	45	46	67	4.9	5.6	6.4	
305825	Upgrade	65	60	85	51	51	78	57	58	82	5.4	6.5	3.8	
305828	Upgrade	65	60	85	46	46	68	50	51	74	4.6	5.5	5.6	
305829	Upgrade	65	60	85	39	39	63	44	45	68	4.7	5.4	5.0	
305834	Upgrade	65	60	85	48	48	71	53	54	77	4.7	5.3	6.1	
305835	Upgrade	65	60	85	34	34	53	39	40	61	5.3	6.5	7.8	
305837	Upgrade	65	60	85	42	43	66	48	49	71	5.5	6.2	5.5	
305841	Upgrade	65	60	85	55	53	80	52	53	77	-3.3	-0.5	-2.7	
305844	Upgrade	65	60	85	41	42	64	47	48	71	5.4	6.2	6.3	
305848	New	60	55	80	-	-	-	53	54	78	-	-	-	
305850	Upgrade	65	60	85	43	43	66	48	49	72	5.5	6.3	5.9	
305851	Upgrade	65	60	85	52	51	80	51	52	76	-1.2	1.3	-3.5	
305854	Upgrade	65	60	85	54	53	80	52	53	77	-2.0	0.6	-3.2	
305862	Upgrade	65	60	85	38	37	61	42	43	62	4.2	5.7	1.5	
305867	Upgrade	65	60	85	43	44	65	48	49	72	4.7	5.3	6.3	
305868	Upgrade	65	60	85	39	38	58	43	44	64	4.4	5.5	5.9	
305869	Upgrade	65	60	85	46	45	70	50	51	73	3.8	5.6	3.3	
305876	Upgrade	65	60	85	42	42	65	47	48	70	4.8	6.3	4.4	
305878	Upgrade	65	60	85	57	56	85	52	53	77	-4.8	-2.1	-8.2	
305881	Upgrade	65	60	85	55	55	79	60	61	85	4.9	6.1	6.1	
305882	Upgrade	65	60	85	40	40	63	45	46	68	4.8	5.5	4.8	
305889	Upgrade	65	60	85	60	60	88	67	68	92	6.8	7.5	4.1	
305890	Upgrade	65	60	85	38	37	59	42	43	63	4.7	6.2	4.3	
305891	Upgrade	65	60	85	41	40	65	45	46	68	3.3	5.2	2.5	
305892	Upgrade	65	60	85	55	53	80	53	54	77	-1.7	0.8	-3.0	
305893	New	60	55	80	-	-	-	51	52	76	-	-	-	
305897	Upgrade	65	60	85	36	35	61	39	40	60	3.3	5.0	-1.3	
305904	Upgrade	65	60	85	42	42	65	47	48	70	4.6	5.6	5.4	
305906	Upgrade	65	60	85	61	59	89	53	54	81	-7.8	-4.9	-7.9	
305915	Upgrade	65	60	85	43	43	66	49	50	73	5.5	6.3	6.1	
305919	Upgrade	65	60	85	43	43	66	49	50	72	5.8	6.6	6.4	
305921	Upgrade	65	60	85	55	56	79	61	62	86	5.2	6.1	6.3	
305924	Upgrade	65	60	85	44	44	66	49	50	71	4.6	5.6	5.7	
305925	Upgrade	65	60	85	45	45	68	50	51	73	4.5	5.6	4.8	
305930	Upgrade	65	60	85	40	40	62	44	45	69	4.7	5.4	6.4	
305932	Upgrade	65	60	85	45	45	68	49	50	74	4.6	5.4	5.5	
305933	Upgrade	65	60	85	46	47	69	51	52	75	4.6	5.5	5.7	
305934	Upgrade	65	60	85	40	40	63	44	45	68	4.3	5.3	5.2	
305939	Upgrade	65	60	85	50	50	73	55	56	79	4.8	5.4	6.0	
305942	Upgrade	65	60	85	40	40	62	45	46	66	4.5	5.8	4.7	
305946	Upgrade	65	60	85	48	47	73	49	50	74	0.9	3.2	0.1	
305947	Upgrade	65	60	85	55	55	80	60	61	85	4.8	5.8	5.4	
305949	Upgrade	65	60	85	42	42	63	47	48	70	5.0	5.8	6.3	
305952	Upgrade	65	60	85	38	38	60	42	43	64	3.8	5.1	4.4	
305955	Upgrade	65	60	85	54	54	79	59	60	84	4.3	5.5	4.9	
305957	Upgrade	65	60	85	42	42	62	46	47	69	4.7	5.6	6.6	
305959	Upgrade	65	60	85	39	38	60	43	44	64	4.3	5.6	4.5	
305963	Upgrade	65	60	85	47	47	71	52	53	77	4.7	5.4	6.0	

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
305966	Upgrade	65	60	85	41	41	64	46	47	70	5.4	6.1	5.2
305967	Upgrade	65	60	85	56	55	82	60	61	85	4.3	5.5	3.3
305968	Upgrade	65	60	85	43	43	66	48	49	72	5.3	6.0	5.6
305969	Upgrade	65	60	85	44	45	65	49	50	71	4.7	5.5	5.9
305970	Upgrade	65	60	85	44	44	66	49	50	72	4.4	5.6	5.4
305971	Upgrade	65	60	85	41	40	62	45	46	68	4.4	5.6	5.2
305975	Upgrade	65	60	85	54	54	80	59	60	84	4.8	5.7	3.4
305978	Upgrade	65	60	85	44	44	67	47	48	71	3.3	4.0	3.4
305979	Upgrade	65	60	85	41	41	64	45	46	68	4.4	5.3	4.3
305981	Upgrade	65	60	85	49	48	73	51	52	76	2.4	4.4	2.5
305982	Upgrade	65	60	85	46	46	68	50	51	74	4.5	5.4	5.7
305983	Upgrade	65	60	85	57	56	84	52	53	78	-5.8	-2.9	-6.3
305985	Upgrade	65	60	85	41	41	64	45	46	69	4.3	5.4	4.6
305992	Upgrade	65	60	85	46	45	68	50	51	74	4.1	5.8	5.2
305995	Upgrade	65	60	85	55	55	81	60	61	85	4.6	5.6	3.6
305996	Upgrade	65	60	85	53	51	78	52	53	77	-0.6	1.9	-1.4
306000	Upgrade	65	60	85	44	44	66	49	50	73	5.2	6.0	6.2
306002	Upgrade	65	60	85	44	45	67	49	50	72	5.0	5.8	5.4
306004	Upgrade	65	60	85	43	43	64	48	49	71	4.9	6.1	6.6
306007	Upgrade	65	60	85	42	42	63	47	48	70	5.1	5.9	6.8
306008	Upgrade	65	60	85	47	45	71	49	50	73	2.1	4.3	1.9
306009	Upgrade	65	60	85	42	43	66	48	49	71	5.3	5.9	4.7
306010	Upgrade	65	60	85	45	45	67	49	50	73	4.6	5.4	6.1
306011	Upgrade	65	60	85	42	42	65	47	48	70	4.8	5.7	4.9
306012	Upgrade	65	60	85	38	37	62	41	42	62	3.6	5.2	-0.1
306018	Upgrade	65	60	85	46	46	69	51	52	74	4.6	5.3	5.2
306019	Upgrade	65	60	85	46	46	70	51	52	74	4.6	5.4	4.6
306023	Upgrade	65	60	85	42	42	64	46	47	69	4.8	5.5	5.2
306026	Upgrade	65	60	85	39	39	61	44	45	66	4.5	5.3	5.4
306031	Upgrade	65	60	85	38	38	63	43	44	67	4.6	5.3	4.3
306033	Upgrade	65	60	85	42	42	66	47	48	70	4.5	5.6	4.4
306034	New	60	55	80	-	-	-	54	55	79	-	-	-
306039	Upgrade	65	60	85	45	45	67	50	51	74	4.7	5.4	6.5
306043	Upgrade	65	60	85	55	53	79	51	53	77	-3.1	-0.4	-2.5
306052	Upgrade	65	60	85	51	51	76	32	33	55	-19.3	-18.3	-21.1
306055	Upgrade	65	60	85	42	42	64	47	48	70	4.9	5.7	6.1
306057	Upgrade	65	60	85	46	46	70	50	51	75	4.7	5.4	4.9
306059	Upgrade	65	60	85	41	41	62	45	46	67	4.1	5.4	5.0
306061	Upgrade	65	60	85	43	44	67	49	50	73	5.9	6.6	5.7
306062	Upgrade	65	60	85	47	46	71	50	51	74	2.8	4.8	2.7
306064	Upgrade	65	60	85	59	57	86	54	55	81	-4.9	-2.2	-5.2
306070	Upgrade	65	60	85	39	39	61	43	44	64	3.9	5.4	3.3
306073	Upgrade	65	60	85	48	47	73	50	51	74	1.9	4.0	0.9
306074	Upgrade	65	60	85	36	35	59	40	41	61	4.4	5.9	1.4
306075	Upgrade	65	60	85	44	45	68	50	51	73	5.3	6.0	5.5
306077	Upgrade	65	60	85	37	37	60	40	41	63	2.4	4.1	2.8
306079	Upgrade	65	60	85	42	43	66	47	48	72	4.5	5.3	5.5
306084	Upgrade	65	60	85	46	46	68	51	52	74	5.1	5.8	5.6
306086	Upgrade	65	60	85	47	46	67	52	53	75	5.0	6.3	8.0
306089	Upgrade	65	60	85	45	45	68	50	51	74	5.2	5.9	6.2
306094	Upgrade	65	60	85	43	43	65	47	48	71	4.8	5.6	5.5



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmix	LAeq,15hr	LAeq,9hr	LAmix	LAeq,15hr	LAeq,9hr	LAmix
306098	Upgrade	65	60	85	43	43	66	47	48	71	4.7	5.5	5.4
306100	Upgrade	65	60	85	42	43	66	48	49	72	5.8	6.5	6.0
306103	Upgrade	65	60	85	47	46	72	50	51	74	2.7	4.8	1.9
306107	Upgrade	65	60	85	45	45	70	49	50	73	3.5	5.3	3.6
306115	Upgrade	65	60	85	48	47	68	52	53	76	4.7	6.0	7.2
306122	Upgrade	65	60	85	38	38	63	43	44	67	4.6	5.4	4.3
306123	Upgrade	65	60	85	51	51	75	29	30	54	-21.5	-20.6	-20.7
306127	Upgrade	65	60	85	47	46	72	49	50	73	1.8	4.0	1.1
306129	Upgrade	65	60	85	50	49	77	51	52	76	0.9	3.0	-0.8
306131	Upgrade	65	60	85	38	38	61	43	44	68	5.0	5.6	6.3
306133	Upgrade	65	60	85	55	56	81	36	37	61	-19.5	-18.8	-20.0
306134	Upgrade	65	60	85	45	45	68	50	51	74	5.3	6.0	5.4
306137	Upgrade	65	60	85	47	47	67	53	54	76	5.2	6.4	8.7
306138	New	60	55	80	-	-	-	53	54	78	-	-	-
306139	Upgrade	65	60	85	44	44	67	49	50	72	5.2	5.8	5.2
306141	Upgrade	65	60	85	46	45	71	48	49	72	1.8	4.1	0.5
306144	Upgrade	65	60	85	44	44	66	48	49	71	4.3	5.3	4.8
306145	Upgrade	65	60	85	55	54	81	54	56	82	-0.6	2.0	1.1
306148	Upgrade	65	60	85	45	44	69	47	48	71	2.1	4.2	2.1
306150	Upgrade	65	60	85	35	34	56	40	40	61	4.5	5.9	4.8
306153	Upgrade	65	60	85	46	46	69	50	51	74	4.4	5.3	5.0
306154	Upgrade	65	60	85	48	46	73	49	50	72	1.1	3.4	-0.3
306156	Upgrade	65	60	85	42	42	65	47	48	70	4.4	5.5	4.9
306157	Upgrade	65	60	85	55	55	80	33	34	58	-21.4	-20.8	-22.0
306159	Upgrade	65	60	85	37	38	61	42	43	67	4.7	5.4	5.3
306163	Upgrade	65	60	85	47	47	67	52	53	76	5.2	6.3	8.9
306174	Upgrade	65	60	85	35	35	59	40	41	61	4.6	6.1	2.3
306179	Upgrade	65	60	85	42	42	64	47	48	70	5.4	6.1	6.3
306181	Upgrade	65	60	85	41	40	62	43	44	65	2.6	4.2	3.4
306183	Upgrade	65	60	85	54	55	80	34	35	59	-20.3	-19.6	-21.2
306184	Upgrade	65	60	85	46	45	69	50	51	73	3.8	5.5	4.2
306185	Upgrade	65	60	85	31	31	54	35	37	59	4.6	5.3	5.2
306193	Upgrade	65	60	85	43	43	66	48	49	71	4.7	5.6	5.6
306194	Upgrade	65	60	85	47	47	69	52	53	76	5.2	6.4	7.5
306196	Upgrade	65	60	85	51	51	76	32	33	56	-19.3	-18.3	-19.4
306198	Upgrade	65	60	85	37	37	60	42	43	66	4.8	5.4	5.8
306200	Upgrade	65	60	85	38	38	62	43	44	67	4.7	5.4	5.0
306202	Upgrade	65	60	85	45	45	68	50	51	74	5.0	5.8	5.4
306206	Upgrade	65	60	85	53	53	78	29	30	54	-23.5	-22.6	-24.1
306208	Upgrade	65	60	85	44	44	67	49	50	72	4.6	5.6	4.8
306215	Upgrade	65	60	85	41	41	63	46	47	69	5.4	6.2	6.4
306217	Upgrade	65	60	85	44	45	68	50	51	74	5.3	6.0	5.4
306219	Upgrade	65	60	85	41	40	62	46	47	69	5.3	6.7	7.3
306221	Upgrade	65	60	85	45	45	69	50	51	74	5.1	5.8	5.5
306223	Upgrade	65	60	85	47	46	69	52	53	76	5.4	6.5	7.5
306224	Upgrade	65	60	85	46	46	69	51	52	74	4.7	5.5	5.7
306226	Upgrade	65	60	85	46	46	68	50	51	73	4.6	5.5	5.7
306228	Upgrade	65	60	85	50	51	74	34	35	57	-16.3	-15.4	-17.0
306229	Upgrade	65	60	85	42	41	63	45	46	67	3.0	4.6	4.6
306230	Upgrade	65	60	85	49	49	71	53	54	77	4.5	5.3	5.5
306232	Upgrade	65	60	85	48	48	69	52	53	75	4.4	5.3	6.0

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA				
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax		
306236	Upgrade	65	60	85	85	54	53	81	82	54	55	82	-0.6	1.9	0.7
306238	Upgrade	65	60	85	85	45	44	70	72	48	49	72	2.3	4.5	1.9
306243	Upgrade	65	60	85	85	47	46	72	74	49	50	74	2.4	4.4	1.5
306244	Upgrade	65	60	85	85	46	46	68	70	51	52	74	5.0	5.9	5.7
306245	Upgrade	65	60	85	85	48	48	71	73	26	27	51	-21.9	-20.6	-20.6
306255	Upgrade	65	60	85	85	45	45	68	70	50	51	74	5.2	5.9	6.0
306256	Upgrade	65	60	85	85	42	42	64	66	47	48	70	5.7	6.4	5.9
306260	Upgrade	65	60	85	85	47	47	69	71	52	53	74	4.8	5.6	5.4
306263	Upgrade	65	60	85	85	40	40	62	64	46	47	68	5.6	6.3	6.1
306264	Upgrade	65	60	85	85	44	44	67	69	49	50	71	4.5	5.5	4.8
306266	Upgrade	65	60	85	85	45	46	69	71	50	51	74	4.5	5.4	4.5
306268	Upgrade	65	60	85	85	46	46	69	71	52	53	76	5.6	6.7	7.0
306271	Upgrade	65	60	85	85	45	45	68	70	49	50	73	4.7	5.6	4.7
306273	Upgrade	65	60	85	85	47	46	73	75	49	50	73	1.2	3.5	0.0
306279	Upgrade	65	60	85	85	49	49	72	74	53	54	77	4.5	5.3	5.6
306281	Upgrade	65	60	85	85	39	39	63	65	44	45	68	4.9	5.5	5.3
306282	Upgrade	65	60	85	85	45	45	69	71	51	52	74	5.6	6.3	5.7
306295	Upgrade	65	60	85	85	58	56	83	85	55	56	79	-3.2	-0.6	-3.7
306301	Upgrade	65	60	85	85	44	45	68	70	49	50	74	4.7	5.6	5.5
306303	Upgrade	65	60	85	85	51	51	75	77	30	31	54	-21.1	-20.2	-20.9
306308	Upgrade	65	60	85	85	61	59	88	90	55	56	80	-5.8	-3.0	-7.6
306309	Upgrade	65	60	85	85	46	45	72	74	47	48	71	0.3	2.7	-0.8
306314	Upgrade	65	60	85	85	43	43	67	69	48	49	72	4.7	5.4	5.2
306319	Upgrade	65	60	85	85	52	52	76	78	31	32	54	-21.1	-20.4	-22.0
306329	Upgrade	65	60	85	85	42	42	64	66	47	47	69	4.1	5.3	5.5
306333	Upgrade	65	60	85	85	47	47	70	72	51	52	75	4.2	5.2	4.8
306334	Upgrade	65	60	85	85	46	44	71	73	46	47	72	-0.2	2.2	0.8
306335	Upgrade	65	60	85	85	46	46	70	72	51	52	74	5.0	5.8	4.5
306336	Upgrade	65	60	85	85	48	48	70	72	29	30	54	-18.9	-17.6	-16.3
306337	Upgrade	65	60	85	85	44	43	67	69	48	49	72	4.5	5.9	4.9
306338	Upgrade	65	60	85	85	44	44	66	68	49	50	72	4.9	5.7	6.4
306339	Upgrade	65	60	85	85	53	53	78	80	31	32	55	-21.8	-21.1	-22.9
306342	Upgrade	65	60	85	85	44	44	65	67	48	49	71	4.6	5.5	5.9
306343	Upgrade	65	60	85	85	47	47	71	73	51	52	75	4.2	5.8	4.1
306345	Upgrade	65	60	85	85	54	54	79	81	35	36	60	-18.9	-18.2	-19.5
306347	Upgrade	65	60	85	85	47	47	70	72	51	52	75	4.5	5.4	5.1
306355	Upgrade	65	60	85	85	45	45	68	70	50	51	73	4.9	5.7	5.0
306362	Upgrade	65	60	85	85	45	45	69	71	51	52	75	5.7	6.3	5.5
306364	Upgrade	65	60	85	85	45	45	68	70	50	51	74	4.7	5.5	5.3
306366	Upgrade	65	60	85	85	47	46	72	74	49	50	74	2.4	4.4	1.6
306367	Upgrade	65	60	85	85	46	44	70	72	46	47	70	0.8	3.1	-0.2
306368	Upgrade	65	60	85	85	56	54	83	85	54	55	80	-2.0	0.7	-3.0
306371	Upgrade	65	60	85	85	43	42	64	66	47	48	70	4.1	5.7	6.0
306375	Upgrade	65	60	85	85	55	55	80	82	35	36	60	-19.1	-18.4	-19.8
306379	Upgrade	65	60	85	85	47	47	68	70	32	33	57	-15.5	-14.0	-11.9
306381	Upgrade	65	60	85	85	55	54	82	84	56	57	84	0.6	2.9	2.3
306382	Upgrade	65	60	85	85	46	45	70	72	48	49	70	1.4	3.6	-0.3
306383	Upgrade	65	60	85	85	43	42	64	66	46	47	68	3.5	5.1	4.0
306385	Upgrade	65	60	85	85	45	45	67	69	50	51	73	5.0	5.8	6.1
306389	Upgrade	65	60	85	85	44	44	67	69	49	50	73	5.6	6.3	5.7
306391	Upgrade	65	60	85	85	30	31	54	56	35	37	60	5.1	5.9	6.3

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax
306394	Upgrade	65	60	85	46	46	69	50	51	74	3.9	5.5	5.0
306399	Upgrade	65	60	85	39	39	63	44	45	68	4.9	5.5	5.3
306402	Upgrade	65	60	85	61	62	90	70	71	95	8.6	9.3	4.7
306403	Upgrade	65	60	85	47	47	71	51	52	76	4.8	5.6	5.0
306407	Upgrade	65	60	85	40	40	64	44	45	69	4.8	5.5	5.5
306411	Upgrade	65	60	85	39	39	63	44	45	68	4.5	5.3	5.7
306412	Upgrade	65	60	85	45	45	68	50	51	73	4.4	5.3	4.8
306416	Upgrade	65	60	85	30	30	55	34	35	59	4.4	5.2	4.4
306417	Upgrade	65	60	85	43	43	66	47	48	71	4.3	5.4	4.3
306421	Upgrade	65	60	85	44	44	65	48	49	70	3.8	5.2	4.6
306423	Upgrade	65	60	85	47	45	71	48	49	71	1.0	3.3	-0.2
306424	Upgrade	65	60	85	54	55	80	34	35	58	-20.9	-20.2	-21.4
306425	Upgrade	65	60	85	57	57	83	41	42	66	-16.0	-15.3	-16.5
306426	Upgrade	65	60	85	47	46	69	31	32	56	-15.7	-14.1	-12.7
306428	Upgrade	65	60	85	42	42	64	46	47	70	4.9	5.7	5.9
306432	Upgrade	65	60	85	45	46	70	51	52	75	5.3	6.1	4.9
306434	Upgrade	65	60	85	58	56	86	54	55	81	-3.8	-1.2	-4.2
306435	Upgrade	65	60	85	50	50	74	55	56	79	4.7	5.4	5.2
306443	Upgrade	65	60	85	44	43	65	48	49	70	3.8	5.1	5.2
306446	Upgrade	65	60	85	48	46	74	49	50	74	1.7	4.0	0.4
306448	Upgrade	65	60	85	50	50	75	34	34	58	-16.6	-15.8	-16.8
306450	Upgrade	65	60	85	46	46	68	51	52	74	4.7	5.6	5.7
306451	Upgrade	65	60	85	42	42	65	48	49	71	6.1	6.7	6.4
306452	Upgrade	65	60	85	44	43	65	48	49	70	3.9	5.3	5.3
306454	Upgrade	65	60	85	55	55	80	34	35	59	-20.6	-19.9	-21.1
306456	Upgrade	65	60	85	52	52	76	57	58	81	4.6	5.3	5.2
306457	Upgrade	65	60	85	41	41	64	46	47	70	5.0	5.7	5.1
306458	Upgrade	65	60	85	42	42	64	31	32	56	-10.8	-9.5	-7.5
306462	Upgrade	65	60	85	35	35	60	40	41	65	4.7	5.5	4.3
306464	Upgrade	65	60	85	47	46	69	33	34	57	-14.1	-12.5	-11.6
306466	Upgrade	65	60	85	47	47	70	52	53	75	4.7	5.5	5.8
306468	Upgrade	65	60	85	51	51	75	53	54	77	1.8	2.4	2.7
306470	Upgrade	65	60	85	43	42	65	47	48	69	4.0	5.2	4.1
306473	Upgrade	65	60	85	40	40	62	45	46	68	5.6	6.2	5.9
306476	Upgrade	65	60	85	48	48	72	51	52	75	2.7	4.6	2.9
306478	Upgrade	65	60	85	56	54	82	57	58	84	1.2	3.4	2.8
306480	Upgrade	65	60	85	44	43	65	47	48	70	3.8	5.1	5.3
306481	Upgrade	65	60	85	48	47	73	50	51	74	2.2	4.3	0.8
306485	Upgrade	65	60	85	51	51	76	33	34	58	-18.3	-17.5	-18.6
306486	Upgrade	65	60	85	41	41	64	45	46	68	4.3	5.5	4.3
306491	Upgrade	65	60	85	55	56	81	36	37	61	-19.6	-18.9	-20.1
306501	Upgrade	65	60	85	47	46	72	49	50	73	2.3	4.3	1.4
306505	Upgrade	65	60	85	47	47	70	52	53	75	4.7	5.6	5.4
306508	Upgrade	65	60	85	34	34	58	38	39	63	4.5	5.3	4.5
306509	Upgrade	65	60	85	47	46	71	48	49	73	1.1	3.3	1.3
306513	Upgrade	65	60	85	52	53	77	33	34	57	-19.7	-18.8	-20.1
306515	Upgrade	65	60	85	44	45	69	49	50	74	4.9	5.6	4.5
306520	Upgrade	65	60	85	47	46	71	36	37	61	-11.3	-9.3	-10.5
306523	Upgrade	65	60	85	45	45	68	50	51	74	4.9	5.7	5.4
306528	Upgrade	65	60	85	44	44	65	48	49	71	3.9	5.2	5.6
306529	Upgrade	65	60	85	47	47	70	32	33	56	-15.2	-13.9	-13.3



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmix	LAeq,15hr	LAeq,9hr	LAmix	LAeq,15hr	LAeq,9hr	LAmix
306532	Upgrade	65	60	85	47	47	69	52	53	75	4.8	5.6	6.1
306535	Upgrade	65	60	85	41	41	63	46	47	69	5.3	6.0	6.1
306537	Upgrade	65	60	85	45	44	68	34	35	58	-11.5	-9.8	-9.8
306540	Upgrade	65	60	85	34	35	57	39	40	63	4.6	5.4	5.9
306541	Upgrade	65	60	85	46	46	69	50	51	73	4.4	5.3	4.6
306543	Upgrade	65	60	85	47	46	71	50	51	74	3.0	4.9	3.0
306544	Upgrade	65	60	85	47	48	70	52	53	76	4.7	5.5	5.3
306551	Upgrade	65	60	85	44	44	67	48	49	72	4.8	5.5	5.0
306553	Upgrade	65	60	85	51	51	76	51	52	75	-0.1	0.7	-1.1
306554	Upgrade	65	60	85	49	49	72	54	55	78	4.6	6.0	5.7
306556	Upgrade	65	60	85	50	50	73	55	56	78	4.8	5.5	5.3
306565	Upgrade	65	60	85	48	48	71	35	36	60	-13.0	-11.6	-10.8
306569	Upgrade	65	60	85	44	45	67	49	50	73	5.0	5.8	6.1
306570	Upgrade	65	60	85	53	53	78	54	55	78	1.4	2.1	0.7
306572	Upgrade	65	60	85	49	50	73	54	55	79	4.7	5.4	5.8
306575	Upgrade	65	60	85	61	60	88	60	61	85	-0.8	1.6	-3.1
306577	Upgrade	65	60	85	41	40	63	45	46	67	4.0	5.4	3.3
306578	Upgrade	65	60	85	40	41	63	45	47	69	5.0	5.8	5.7
306581	Upgrade	65	60	85	35	35	59	39	40	64	4.6	5.3	5.2
306582	Upgrade	65	60	85	44	44	65	49	49	71	4.3	5.3	6.0
306584	Upgrade	65	60	85	60	59	87	59	60	86	-1.2	1.3	-0.4
306585	Upgrade	65	60	85	46	46	69	35	36	59	-11.6	-10.0	-10.0
306588	Upgrade	65	60	85	49	49	72	34	35	59	-15.5	-13.9	-13.3
306589	Upgrade	65	60	85	47	47	69	52	53	75	4.6	5.5	5.6
306591	Upgrade	65	60	85	48	47	72	50	51	75	2.6	4.6	2.3
306592	Upgrade	65	60	85	44	43	68	34	35	59	-9.6	-8.1	-8.9
306594	Upgrade	65	60	85	44	45	68	50	51	74	5.7	6.4	6.2
306595	Upgrade	65	60	85	45	45	68	50	51	73	4.7	5.6	5.2
306596	Upgrade	65	60	85	55	55	80	42	43	67	-12.9	-12.2	-12.9
306600	Upgrade	65	60	85	48	47	70	53	54	78	5.8	7.0	7.7
306602	Upgrade	65	60	85	40	40	63	45	46	69	5.6	6.3	5.9
306607	Upgrade	65	60	85	48	47	73	50	51	75	2.5	4.5	2.4
306617	Upgrade	65	60	85	46	46	70	34	35	59	-12.5	-11.0	-11.7
306618	Upgrade	65	60	85	47	47	70	51	52	75	4.1	5.6	5.5
306621	Upgrade	65	60	85	45	44	66	49	50	72	4.6	5.7	6.3
306629	Upgrade	65	60	85	47	46	71	50	51	73	2.8	4.7	2.5
306631	Upgrade	65	60	85	62	61	88	62	63	89	-0.3	2.1	1.1
306633	Upgrade	65	60	85	52	52	82	59	60	84	6.9	7.8	2.1
306634	Upgrade	65	60	85	51	51	75	52	53	76	1.2	1.8	1.6
306635	Upgrade	65	60	85	47	47	71	52	53	76	4.5	5.4	4.9
306642	Upgrade	65	60	85	40	40	64	44	45	69	4.9	5.5	5.4
306644	Upgrade	65	60	85	47	48	70	52	53	76	4.6	5.4	5.6
306645	Upgrade	65	60	85	46	46	70	35	36	60	-11.5	-9.7	-10.3
306653	Upgrade	65	60	85	56	56	81	36	37	60	-19.9	-19.2	-20.8
306657	Upgrade	65	60	85	48	47	74	51	52	76	2.8	4.7	1.2
306661	Upgrade	65	60	85	61	59	87	60	61	87	-1.3	1.2	0.0
306668	Upgrade	65	60	85	51	51	82	57	58	84	6.2	7.4	2.7
306669	Upgrade	65	60	85	47	46	70	35	36	60	-11.6	-9.8	-9.6
306672	Upgrade	65	60	85	40	40	62	45	46	68	5.3	6.1	6.4
306673	Upgrade	65	60	85	46	46	69	51	52	74	5.0	5.7	5.2
306676	Upgrade	65	60	85	61	60	86	62	63	88	0.3	2.5	1.6

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
306680	Upgrade	65	60	85	52	52	81	58	59	84	6.5	7.4	3.0
306681	Upgrade	65	60	85	45	45	68	50	51	73	4.9	5.8	5.6
306685	Upgrade	65	60	85	45	45	69	49	50	73	4.8	5.7	4.7
306687	Upgrade	65	60	85	42	42	64	48	49	71	6.0	6.7	6.8
306690	Upgrade	65	60	85	47	46	71	36	37	61	-11.1	-9.2	-10.8
306692	Upgrade	65	60	85	52	52	81	58	59	84	5.9	7.1	2.4
306694	Upgrade	65	60	85	46	45	70	51	52	75	5.3	6.6	5.7
306695	Upgrade	65	60	85	50	50	75	32	33	55	-18.6	-17.8	-19.8
306697	Upgrade	65	60	85	44	44	66	49	50	72	4.4	5.5	5.9
306698	Upgrade	65	60	85	48	49	73	53	54	78	4.8	5.5	5.1
306699	Upgrade	65	60	85	52	52	76	35	36	59	-17.3	-16.2	-17.1
306700	Upgrade	65	60	85	43	44	66	48	49	72	4.9	5.7	6.2
306704	Upgrade	65	60	85	48	47	71	52	52	75	4.1	5.2	4.0
306714	Upgrade	65	60	85	43	43	66	48	48	70	4.5	5.9	3.4
306715	Upgrade	65	60	85	48	48	70	52	53	76	4.4	5.3	6.0
306716	Upgrade	65	60	85	49	48	75	52	53	76	2.9	4.8	1.2
306717	Upgrade	65	60	85	44	44	67	35	36	59	-9.8	-8.4	-7.9
306719	Upgrade	65	60	85	49	49	78	55	56	80	6.2	7.3	2.7
306724	Upgrade	65	60	85	46	45	69	50	51	72	4.3	5.6	2.2
306727	Upgrade	65	60	85	44	44	68	49	50	73	5.0	6.4	4.9
306730	Upgrade	65	60	85	53	53	82	58	59	84	5.7	6.9	2.5
306731	Upgrade	65	60	85	50	50	75	33	34	58	-16.7	-15.7	-17.0
306733	Upgrade	65	60	85	53	52	82	58	59	84	5.8	7.1	2.0
306735	Upgrade	65	60	85	36	36	60	41	42	65	5.0	5.7	4.8
306736	Upgrade	65	60	85	48	47	72	35	37	60	-12.7	-10.5	-11.7
306737	Upgrade	65	60	85	51	51	76	55	56	81	4.8	5.5	4.7
306738	Upgrade	65	60	85	48	48	70	52	53	76	4.3	5.3	5.6
306739	Upgrade	65	60	85	48	47	72	35	36	60	-12.5	-10.7	-11.7
306742	Upgrade	65	60	85	50	50	78	55	57	81	5.3	6.7	2.6
306744	Upgrade	65	60	85	52	52	81	58	59	83	5.8	7.0	2.5
306748	Upgrade	65	60	85	46	46	68	50	51	74	4.4	5.5	5.8
306750	Upgrade	65	60	85	51	51	81	58	59	84	6.4	7.3	2.7
306751	Upgrade	65	60	85	31	31	55	36	37	60	4.7	5.3	5.9
306754	Upgrade	65	60	85	46	47	71	51	52	76	5.1	5.9	5.1
306755	Upgrade	65	60	85	50	50	78	35	36	60	-14.4	-13.6	-17.8
306756	Upgrade	65	60	85	48	48	71	53	54	76	4.3	5.8	5.3
306757	Upgrade	65	60	85	50	50	80	56	57	82	5.8	7.0	2.7
306761	Upgrade	65	60	85	23	23	48	29	30	54	5.6	6.3	5.4
306764	Upgrade	65	60	85	51	51	79	58	60	84	7.1	8.2	5.0
306766	Upgrade	65	60	85	48	48	73	51	52	75	2.9	4.8	2.3
306768	Upgrade	65	60	85	43	43	67	48	49	72	5.7	6.2	5.3
306769	Upgrade	65	60	85	48	49	72	53	54	77	4.6	5.4	5.4
306770	Upgrade	65	60	85	48	48	72	53	54	76	4.7	5.5	4.7
306771	Upgrade	65	60	85	44	43	63	48	48	70	4.0	5.5	6.5
306773	Upgrade	65	60	85	63	62	88	63	64	91	0.2	2.5	2.6
306774	Upgrade	65	60	85	49	49	76	54	55	79	4.7	6.2	3.2
306775	Upgrade	65	60	85	52	52	81	57	59	84	5.5	6.9	2.3
306782	Upgrade	65	60	85	46	46	69	39	40	63	-7.9	-6.3	-5.3
306784	Upgrade	65	60	85	50	51	76	55	56	79	4.4	5.0	2.9
306786	Upgrade	65	60	85	47	46	69	51	52	74	4.7	5.8	5.7
306787	Upgrade	65	60	85	50	50	79	56	57	81	5.3	6.7	2.5

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
306788	Upgrade	65	60	85	45	45	68	50	50	73	4.2	5.4	5.1
306789	Upgrade	65	60	85	48	47	71	35	36	59	-13.0	-11.1	-11.4
306791	Upgrade	65	60	85	52	53	77	59	60	84	6.9	7.7	7.8
306793	Upgrade	65	60	85	42	43	64	47	48	71	4.9	5.6	6.5
306795	Upgrade	65	60	85	13	14	38	21	22	45	7.1	7.8	7.7
306799	Upgrade	65	60	85	49	48	74	52	52	76	2.8	4.6	2.1
306801	Upgrade	65	60	85	49	48	73	51	52	75	1.7	3.9	2.5
306803	Upgrade	65	60	85	42	42	64	47	48	70	5.2	5.9	5.5
306804	Upgrade	65	60	85	51	51	78	58	59	83	6.9	7.8	4.9
306806	Upgrade	65	60	85	49	48	71	53	54	77	4.5	5.9	5.5
306807	Upgrade	65	60	85	44	44	66	48	49	71	4.3	5.3	5.7
306809	Upgrade	65	60	85	52	52	79	57	58	82	4.5	5.9	3.1
306810	Upgrade	65	60	85	47	48	70	52	53	76	4.9	5.6	5.4
306811	Upgrade	65	60	85	45	45	69	34	35	59	-11.5	-9.7	-10.4
306812	Upgrade	65	60	85	46	46	69	50	51	74	4.4	5.3	5.0
306814	Upgrade	65	60	85	49	49	78	55	56	80	5.8	6.9	2.3
306818	Upgrade	65	60	85	46	46	74	51	52	75	4.6	6.0	0.9
306819	Upgrade	65	60	85	43	42	67	47	48	69	3.6	5.3	1.7
306822	Upgrade	65	60	85	47	48	70	52	53	76	4.7	5.4	5.6
306825	Upgrade	65	60	85	50	50	80	55	56	82	5.2	6.5	2.2
306826	Upgrade	65	60	85	47	46	70	36	37	61	-10.6	-8.8	-9.1
306827	Upgrade	65	60	85	44	44	66	49	49	71	4.4	5.6	5.7
306831	Upgrade	65	60	85	49	49	73	31	32	56	-18.5	-17.2	-17.3
306833	Upgrade	65	60	85	49	49	79	55	56	82	5.5	6.9	3.0
306834	Upgrade	65	60	85	44	44	67	49	49	72	4.2	5.7	4.8
306836	Upgrade	65	60	85	48	48	73	52	53	76	3.4	5.2	3.0
306838	Upgrade	65	60	85	48	48	73	53	54	77	4.8	5.5	4.7
306839	Upgrade	65	60	85	61	61	86	34	35	57	-27.0	-26.2	-29.4
306842	Upgrade	65	60	85	47	47	74	51	52	75	3.4	5.3	0.8
306843	Upgrade	65	60	85	50	50	79	56	57	81	5.2	6.6	2.3
306845	Upgrade	65	60	85	42	43	65	48	49	72	5.2	5.9	6.4
306846	Upgrade	65	60	85	43	43	64	48	49	71	4.4	5.7	6.3
306847	Upgrade	65	60	85	51	50	79	56	57	81	4.8	6.1	2.1
306848	Upgrade	65	60	85	50	49	73	55	56	79	4.9	6.3	5.5
306849	Upgrade	65	60	85	61	61	86	33	34	57	-28.0	-27.3	-29.3
306852	Upgrade	65	60	85	49	49	73	53	54	77	4.2	5.8	4.3
306853	Upgrade	65	60	85	51	52	76	58	59	83	6.9	7.8	6.8
306856	Upgrade	65	60	85	47	46	72	51	52	75	4.3	5.9	3.6
306858	Upgrade	65	60	85	48	48	70	52	53	76	4.6	5.4	5.7
306859	Upgrade	65	60	85	48	48	70	52	53	75	4.4	5.5	4.6
306860	Upgrade	65	60	85	48	47	72	36	37	61	-11.3	-9.4	-11.1
306862	Upgrade	65	60	85	49	47	74	39	40	64	-9.4	-7.3	-9.7
306866	Upgrade	65	60	85	48	49	71	53	54	76	4.9	5.6	5.4
306867	Upgrade	65	60	85	45	44	66	50	51	72	4.7	6.2	6.6
306868	Upgrade	65	60	85	47	47	68	52	53	74	4.4	5.6	5.7
306869	Upgrade	65	60	85	50	49	78	55	56	81	5.2	6.6	2.5
306870	Upgrade	65	60	85	50	49	75	55	56	80	5.2	6.6	4.2
306872	New	60	55	80	-	-	-	53	54	78	-	-	-
306874	Upgrade	65	60	85	48	47	72	39	40	63	-9.1	-7.0	-8.9
306875	Upgrade	65	60	85	51	50	73	55	56	79	4.0	5.6	5.4
306876	Upgrade	65	60	85	47	47	70	52	53	76	5.1	5.9	5.4



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmaz	LAeq,15hr	LAeq,9hr	LAmaz	LAeq,15hr	LAeq,9hr	LAmaz
306877	Upgrade	65	60	85	48	47	70	52	53	74	4.1	5.4	4.3
306878	Upgrade	65	60	85	49	49	72	54	55	78	4.4	5.3	5.1
306879	Upgrade	65	60	85	51	51	78	55	56	81	4.0	5.4	2.2
306881	Upgrade	65	60	85	50	50	79	55	56	81	4.8	6.2	2.0
306882	Upgrade	65	60	85	48	47	70	53	54	78	5.3	6.6	7.8
306884	Upgrade	65	60	85	53	53	78	33	34	57	-19.8	-18.9	-20.6
306885	Upgrade	65	60	85	49	48	73	54	54	77	4.7	6.0	4.3
306887	Upgrade	65	60	85	50	49	77	54	55	79	4.5	6.1	2.4
306890	Upgrade	65	60	85	38	39	63	43	44	68	4.7	5.5	5.0
306891	Upgrade	65	60	85	49	49	74	53	55	78	4.5	5.9	3.7
306893	Upgrade	65	60	85	49	49	78	55	56	81	5.3	6.7	2.5
306897	Upgrade	65	60	85	49	49	72	53	54	77	4.5	5.5	5.1
306898	Upgrade	65	60	85	59	59	88	66	67	92	7.8	8.6	3.9
306899	Upgrade	65	60	85	46	46	71	50	51	72	4.4	4.7	1.7
306903	Upgrade	65	60	85	54	54	81	60	61	86	6.5	7.6	4.4
306904	Upgrade	65	60	85	47	47	69	52	53	75	5.1	6.1	6.4
306906	Upgrade	65	60	85	49	48	79	54	55	81	5.4	6.8	2.4
306908	Upgrade	65	60	85	45	45	67	49	50	72	4.6	5.8	5.8
306909	Upgrade	65	60	85	46	46	69	51	52	75	5.0	5.9	6.2
306910	Upgrade	65	60	85	50	50	75	54	55	78	3.4	4.7	3.2
306911	Upgrade	65	60	85	49	49	73	53	54	78	4.5	5.2	4.9
306914	Upgrade	65	60	85	44	43	65	49	50	73	5.1	6.4	7.7
306917	Upgrade	65	60	85	49	49	72	54	55	77	4.5	5.4	5.1
306918	Upgrade	65	60	85	50	50	71	55	56	79	4.7	6.0	7.7
306919	Upgrade	65	60	85	49	49	77	54	55	79	4.5	6.1	2.1
306920	Upgrade	65	60	85	43	43	66	48	49	72	5.3	6.0	6.1
306921	Upgrade	65	60	85	49	48	77	54	55	80	5.4	6.7	2.4
306922	Upgrade	65	60	85	46	46	69	35	36	60	-11.2	-9.4	-9.2
306927	Upgrade	65	60	85	49	49	72	34	35	59	-15.0	-13.6	-13.2
306928	Upgrade	65	60	85	51	51	75	34	35	58	-17.0	-15.8	-16.4
306930	Upgrade	65	60	85	50	50	72	55	56	79	4.6	6.0	7.2
306932	Upgrade	65	60	85	52	52	76	59	60	84	6.6	7.8	8.0
306934	Upgrade	65	60	85	48	48	78	55	56	80	6.5	7.6	2.0
306937	Upgrade	65	60	85	49	49	72	33	34	58	-16.0	-14.5	-13.8
306939	Upgrade	65	60	85	61	61	88	68	69	93	6.6	7.9	5.3
306940	Upgrade	65	60	85	51	50	75	57	58	82	6.2	7.5	6.9
306941	Upgrade	65	60	85	47	46	71	50	51	74	3.6	5.5	3.0
306942	Upgrade	65	60	85	50	50	75	54	55	79	3.7	5.1	3.6
306943	Upgrade	65	60	85	49	49	76	54	55	78	4.8	6.3	2.1
306945	Upgrade	65	60	85	44	44	67	49	50	72	4.8	6.2	4.8
306946	Upgrade	65	60	85	48	47	74	37	38	62	-11.4	-9.2	-11.9
306947	Upgrade	65	60	85	45	45	68	50	51	72	5.0	5.3	4.1
306948	Upgrade	65	60	85	61	61	89	68	69	93	6.7	8.0	3.9
306950	Upgrade	65	60	85	63	62	89	68	69	93	5.4	7.0	4.3
306954	Upgrade	65	60	85	48	48	74	53	54	77	4.3	5.8	3.0
306956	Upgrade	65	60	85	48	48	73	53	54	78	5.2	6.5	4.8
306958	Upgrade	65	60	85	48	48	71	53	54	77	4.4	5.8	6.1
306959	Upgrade	65	60	85	55	55	80	33	34	56	-21.7	-20.9	-23.7
306960	Upgrade	65	60	85	49	49	72	53	54	77	4.7	5.5	5.0
306961	Upgrade	65	60	85	57	57	84	64	65	89	6.7	7.8	4.7
306962	Upgrade	65	60	85	50	49	76	54	55	78	3.8	5.5	2.2

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax
306963	Upgrade	65	60	85	47	46	71	36	37	61	-11.3	-9.4	-10.5
306965	Upgrade	65	60	85	47	47	69	52	53	75	5.0	5.9	5.9
306966	Upgrade	65	60	85	48	48	78	54	55	80	5.6	6.9	1.9
306967	Upgrade	65	60	85	47	48	70	52	53	76	4.7	5.4	5.7
306968	Upgrade	65	60	85	44	44	68	50	51	74	6.1	6.8	6.1
306971	Upgrade	65	60	85	47	47	70	52	53	75	4.8	5.7	5.8
306973	Upgrade	65	60	85	47	47	69	51	52	75	4.4	5.4	5.9
306974	Upgrade	65	60	85	53	53	80	59	60	84	5.3	6.8	4.1
306975	Upgrade	65	60	85	35	36	60	40	41	65	4.8	5.6	4.8
306976	Upgrade	65	60	85	42	42	65	48	49	72	5.9	6.6	6.4
306977	Upgrade	65	60	85	68	67	96	64	65	89	-4.0	-1.3	-6.6
306978	Upgrade	65	60	85	50	50	74	53	54	78	3.0	4.6	3.1
306980	Upgrade	65	60	85	48	47	74	53	54	78	5.4	6.8	3.6
306983	Upgrade	65	60	85	50	49	74	52	53	76	2.2	4.3	2.9
306984	Upgrade	65	60	85	49	48	71	36	37	60	-13.2	-11.4	-10.8
306985	Upgrade	65	60	85	57	56	83	63	64	88	6.0	7.3	4.8
306987	Upgrade	65	60	85	49	49	74	54	55	79	5.2	6.7	5.5
306988	Upgrade	65	60	85	48	47	74	54	55	78	5.8	7.2	4.1
306990	Upgrade	65	60	85	42	42	65	48	49	71	5.4	6.6	6.1
306992	Upgrade	65	60	85	47	46	71	35	36	60	-12.0	-10.2	-11.0
306993	Upgrade	65	60	85	48	48	73	52	53	76	3.6	5.3	3.3
306996	Upgrade	65	60	85	49	49	75	53	54	78	4.0	5.4	2.9
306998	Upgrade	65	60	85	45	45	67	50	51	73	4.7	5.7	6.1
307001	Upgrade	65	60	85	50	50	76	54	55	79	4.2	5.6	3.0
307003	Upgrade	65	60	85	47	46	72	36	37	61	-10.9	-8.9	-11.1
307005	Upgrade	65	60	85	48	48	71	36	37	61	-11.7	-10.1	-10.0
307007	Upgrade	65	60	85	44	44	68	50	51	74	5.6	6.2	5.3
307008	Upgrade	65	60	85	46	46	68	51	52	74	4.4	5.4	6.3
307009	Upgrade	65	60	85	49	49	70	54	55	78	5.2	6.3	7.5
307010	Upgrade	65	60	85	43	43	64	49	49	72	5.2	6.4	7.5
307011	Upgrade	65	60	85	47	47	69	52	53	75	5.0	5.9	5.9
307013	Upgrade	65	60	85	43	43	66	48	49	72	5.7	6.4	5.8
307014	Upgrade	65	60	85	43	43	65	47	48	72	4.5	5.2	6.5
307015	Upgrade	65	60	85	48	47	75	52	53	77	4.4	6.0	2.3
307016	Upgrade	65	60	85	47	47	69	52	53	75	5.0	5.9	5.8
307017	Upgrade	65	60	85	49	48	71	53	54	77	4.6	5.9	6.3
307019	Upgrade	65	60	85	42	42	66	48	49	71	6.0	6.7	5.3
307020	Upgrade	65	60	85	54	53	79	58	59	83	4.4	6.1	4.4
307021	Upgrade	65	60	85	50	50	76	53	54	78	2.5	4.0	1.7
307022	Upgrade	65	60	85	47	47	68	51	52	74	4.3	5.4	6.1
307023	Upgrade	65	60	85	57	56	83	61	62	87	4.3	6.0	3.2
307026	Upgrade	65	60	85	49	49	72	52	53	76	2.8	4.3	4.3
307027	Upgrade	65	60	85	65	64	90	68	69	93	3.6	5.6	3.1
307028	Upgrade	65	60	85	63	62	88	68	69	93	5.2	6.8	5.3
307029	Upgrade	65	60	85	44	43	65	48	49	71	4.3	5.5	5.6
307031	Upgrade	65	60	85	51	51	75	58	59	83	7.3	8.1	8.6
307033	Upgrade	65	60	85	49	49	71	54	54	76	4.2	5.3	4.7
307034	Upgrade	65	60	85	43	43	66	49	50	72	5.8	6.4	5.8
307035	Upgrade	65	60	85	49	48	73	52	53	77	3.5	5.3	3.8
307036	Upgrade	65	60	85	57	58	83	36	37	59	-21.3	-20.6	-23.8
307040	Upgrade	65	60	85	48	47	76	53	54	78	4.8	6.4	1.8

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmix	LAeq,15hr	LAeq,9hr	LAmix	LAeq,15hr	LAeq,9hr	LAmix
307041	Upgrade	65	60	85	49	49	68	54	55	77	5.1	6.2	9.1
307042	Upgrade	65	60	85	49	48	73	36	37	61	-13.1	-11.1	-12.3
307044	Upgrade	65	60	85	47	46	68	52	53	75	5.1	6.1	7.1
307046	Upgrade	65	60	85	45	45	67	49	50	72	4.7	5.6	5.2
307050	Upgrade	65	60	85	50	50	72	54	55	77	4.2	5.4	5.1
307051	Upgrade	65	60	85	41	41	64	46	47	70	4.8	5.6	5.6
307052	Upgrade	65	60	85	52	51	78	56	57	81	4.5	6.1	3.3
307053	Upgrade	65	60	85	48	48	71	35	36	59	-13.6	-11.9	-11.9
307056	Upgrade	65	60	85	42	42	65	46	48	71	4.7	5.4	5.6
307057	Upgrade	65	60	85	50	50	74	36	37	61	-13.8	-12.2	-13.0
307059	Upgrade	65	60	85	48	47	74	52	53	77	3.8	5.5	3.3
307063	Upgrade	65	60	85	23	23	49	29	30	54	6.0	6.7	4.8
307065	Upgrade	65	60	85	54	54	79	41	42	66	-12.5	-11.8	-13.5
307066	Upgrade	65	60	85	54	53	80	59	60	84	4.9	6.5	3.3
307068	Upgrade	65	60	85	49	49	68	54	55	77	5.0	6.2	9.1
307069	Upgrade	65	60	85	51	50	74	54	55	78	3.0	4.8	3.9
307070	Upgrade	65	60	85	44	43	66	48	48	69	4.1	5.5	3.1
307071	Upgrade	65	60	85	67	65	93	68	70	94	1.7	4.1	0.3
307072	Upgrade	65	60	85	45	45	68	50	51	73	4.8	5.9	5.9
307073	Upgrade	65	60	85	52	52	76	59	60	84	6.8	7.8	8.1
307075	Upgrade	65	60	85	49	49	71	54	54	76	4.5	5.4	5.2
307076	Upgrade	65	60	85	50	49	74	37	39	62	-12.2	-10.2	-11.7
307077	Upgrade	65	60	85	50	50	74	54	55	78	3.8	5.4	3.8
307078	Upgrade	65	60	85	65	63	91	63	64	88	-1.2	1.4	-3.2
307079	Upgrade	65	60	85	49	49	68	54	55	77	5.1	6.3	9.1
307081	Upgrade	65	60	85	54	54	82	59	60	84	5.3	6.7	2.9
307082	Upgrade	65	60	85	47	47	71	52	53	77	4.8	5.4	6.0
307084	Upgrade	65	60	85	47	46	72	36	37	61	-11.0	-9.2	-11.0
307085	Upgrade	65	60	85	55	54	81	59	60	84	3.4	5.2	2.8
307086	Upgrade	65	60	85	50	50	72	54	55	77	4.0	5.3	4.8
307087	Upgrade	65	60	85	50	50	72	56	56	80	5.2	6.4	8.1
307088	Upgrade	65	60	85	49	48	74	35	36	60	-13.9	-11.9	-14.3
307090	Upgrade	65	60	85	50	50	73	54	55	78	4.2	5.3	5.0
307091	Upgrade	65	60	85	70	68	97	68	69	93	-1.7	1.0	-4.1
307092	Upgrade	65	60	85	45	45	69	36	37	61	-9.5	-7.8	-8.9
307093	Upgrade	65	60	85	49	48	73	52	53	77	3.6	5.3	3.8
307094	Upgrade	65	60	85	61	61	87	31	32	55	-30.2	-29.4	-31.7
307095	Upgrade	65	60	85	51	51	75	57	58	82	6.4	7.6	6.8
307096	Upgrade	65	60	85	60	60	86	65	66	90	4.5	6.1	3.7
307098	Upgrade	65	60	85	50	49	75	52	53	76	2.0	3.6	1.6
307099	Upgrade	65	60	85	53	53	80	58	59	83	4.1	5.9	2.7
307100	Upgrade	65	60	85	49	48	73	53	54	77	3.8	5.5	4.6
307103	Upgrade	65	60	85	70	68	97	69	70	94	-1.5	1.2	-3.8
307104	Upgrade	65	60	85	41	42	64	46	48	69	5.2	5.9	5.3
307107	Upgrade	65	60	85	49	49	68	54	55	77	5.1	6.3	9.0
307108	Upgrade	65	60	85	42	42	64	47	48	70	5.3	6.0	6.2
307110	Upgrade	65	60	85	40	40	63	46	47	70	5.7	6.4	6.5
307113	Upgrade	65	60	85	48	48	72	53	54	76	4.8	5.6	4.7
307114	Upgrade	65	60	85	42	42	63	47	48	69	5.5	6.3	6.1
307115	Upgrade	65	60	85	50	49	74	36	37	61	-13.6	-11.6	-13.6
307116	Upgrade	65	60	85	41	41	64	46	47	70	5.3	5.9	5.7



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax
307118	Upgrade	65	60	85	49	49	69	54	55	77	5.0	6.2	8.1
307119	Upgrade	65	60	85	50	50	73	35	36	59	-15.2	-13.6	-13.4
307122	Upgrade	65	60	85	47	47	70	52	53	76	5.0	5.9	5.9
307123	Upgrade	65	60	85	61	61	86	32	33	55	-28.6	-28.0	-31.2
307125	Upgrade	65	60	85	52	51	77	55	56	80	2.9	4.9	2.6
307129	Upgrade	65	60	85	47	48	70	52	53	76	5.0	5.9	5.8
307130	Upgrade	65	60	85	43	43	66	48	49	72	5.2	6.0	5.7
307131	Upgrade	65	60	85	50	50	76	55	56	79	4.3	5.7	3.3
307132	Upgrade	65	60	85	58	57	84	61	62	86	2.5	4.5	2.0
307134	Upgrade	65	60	85	48	47	74	53	54	77	5.1	6.4	2.5
307135	Upgrade	65	60	85	40	41	63	45	46	70	4.8	5.4	6.5
307137	Upgrade	65	60	85	48	48	72	53	54	77	4.6	5.5	5.1
307138	Upgrade	65	60	85	49	48	72	37	38	61	-12.1	-10.2	-10.4
307141	Upgrade	65	60	85	50	50	73	55	56	79	4.7	5.9	6.8
307143	Upgrade	65	60	85	48	47	74	38	39	63	-10.2	-8.2	-11.0
307144	Upgrade	65	60	85	47	47	69	51	52	76	4.6	5.3	6.6
307145	Upgrade	65	60	85	48	48	72	53	54	77	4.7	5.6	4.9
307147	Upgrade	65	60	85	44	44	65	48	49	71	4.3	5.4	5.8
307149	Upgrade	65	60	85	42	43	66	48	49	72	5.8	6.5	5.8
307150	Upgrade	65	60	85	72	70	99	68	69	96	-3.1	-0.4	-3.4
307151	Upgrade	65	60	85	48	48	69	54	54	78	5.3	6.3	8.3
307153	Upgrade	65	60	85	52	52	78	57	58	81	4.4	5.7	3.3
307154	Upgrade	65	60	85	43	42	64	47	48	69	4.5	5.8	4.5
307155	Upgrade	65	60	85	54	53	79	57	58	82	3.1	4.9	2.2
307156	Upgrade	65	60	85	49	47	74	51	52	75	2.3	4.3	1.0
307157	Upgrade	65	60	85	58	57	85	60	61	85	1.7	4.0	0.6
307159	Upgrade	65	60	85	44	44	66	49	50	72	4.8	5.6	5.7
307161	Upgrade	65	60	85	54	53	81	58	59	83	3.8	5.5	2.2
307162	Upgrade	65	60	85	71	69	98	69	70	96	-2.0	0.7	-2.3
307167	Upgrade	65	60	85	54	54	80	57	58	83	3.0	4.8	2.5
307168	Upgrade	65	60	85	48	48	71	53	54	76	4.7	5.6	5.7
307170	Upgrade	65	60	85	43	44	65	49	50	71	5.4	6.1	6.6
307171	Upgrade	65	60	85	50	50	76	52	53	76	1.2	3.0	0.4
307172	Upgrade	65	60	85	48	48	74	53	54	79	4.5	6.2	4.6
307173	Upgrade	65	60	85	60	60	85	34	35	58	-25.5	-24.7	-27.4
307174	Upgrade	65	60	85	50	50	73	54	55	78	4.3	5.3	5.2
307175	Upgrade	65	60	85	41	41	62	46	47	68	5.0	5.7	5.9
307177	Upgrade	65	60	85	48	48	70	53	54	76	4.7	5.6	5.5
307178	Upgrade	65	60	85	52	51	78	56	57	80	3.3	5.2	2.3
307180	Upgrade	65	60	85	50	50	73	55	55	78	4.7	5.4	5.5
307181	Upgrade	65	60	85	49	48	74	35	36	60	-13.7	-11.7	-14.1
307182	Upgrade	65	60	85	70	68	97	68	69	96	-1.4	1.3	-1.0
307183	Upgrade	65	60	85	40	40	63	45	46	69	4.8	5.5	5.9
307185	Upgrade	65	60	85	42	42	66	48	49	71	5.9	6.6	5.5
307187	Upgrade	65	60	85	49	49	69	54	55	78	4.9	6.2	8.8
307188	Upgrade	65	60	85	49	49	72	35	36	59	-14.7	-13.3	-13.0
307190	Upgrade	65	60	85	51	51	77	54	56	79	3.0	5.0	2.7
307191	Upgrade	65	60	85	53	52	79	56	57	81	2.5	4.5	1.8
307192	Upgrade	65	60	85	69	68	97	69	70	96	-0.3	2.3	-0.7
307194	Upgrade	65	60	85	49	49	69	54	55	77	5.0	6.2	8.4
307195	Upgrade	65	60	85	48	49	71	53	54	76	4.6	5.5	5.6

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax
307196	Upgrade	65	60	85	60	58	87	59	60	84	-0.2	2.2	-2.1
307197	Upgrade	65	60	85	46	45	67	51	51	73	4.7	6.0	5.8
307198	Upgrade	65	60	85	58	57	84	60	61	85	1.4	3.6	1.0
307201	Upgrade	65	60	85	45	46	69	50	51	75	4.5	5.2	5.1
307202	Upgrade	65	60	85	60	59	88	58	59	83	-2.3	0.3	-4.7
307203	Upgrade	65	60	85	50	49	76	54	55	81	4.0	5.9	4.9
307204	Upgrade	65	60	85	44	44	67	49	50	73	5.7	6.4	6.0
307206	Upgrade	65	60	85	49	48	74	51	52	75	1.7	3.9	0.5
307208	Upgrade	65	60	85	45	45	66	49	50	71	4.3	5.3	5.6
307209	Upgrade	65	60	85	47	46	71	51	52	72	4.2	5.7	1.7
307213	Upgrade	65	60	85	48	48	71	53	54	76	4.8	5.6	5.5
307216	Upgrade	65	60	85	49	49	71	54	55	76	4.2	5.3	5.7
307220	Upgrade	65	60	85	51	51	78	55	56	80	4.3	5.6	1.9
307221	Upgrade	65	60	85	48	49	71	53	54	76	4.8	5.6	5.8
307223	Upgrade	65	60	85	50	49	75	37	38	62	-12.5	-10.2	-12.8
307225	Upgrade	65	60	85	55	54	80	58	59	83	3.4	5.1	3.0
307227	Upgrade	65	60	85	61	61	87	34	35	57	-26.8	-26.1	-29.7
307228	Upgrade	65	60	85	53	52	78	56	57	81	2.9	4.8	3.1
307229	Upgrade	65	60	85	52	51	74	55	56	80	3.7	5.4	5.7
307231	Upgrade	65	60	85	49	49	69	54	55	78	4.9	6.2	8.3
307232	Upgrade	65	60	85	44	44	66	49	50	73	5.3	6.0	6.2
307233	Upgrade	65	60	85	42	43	65	47	48	71	4.8	5.6	6.9
307235	Upgrade	65	60	85	62	60	89	59	60	87	-2.6	0.2	-2.0
307236	Upgrade	65	60	85	51	50	75	54	55	79	3.7	5.6	4.4
307239	Upgrade	65	60	85	49	49	68	54	55	77	4.9	6.2	9.0
307240	Upgrade	65	60	85	54	53	80	56	57	81	2.0	4.2	1.1
307242	Upgrade	65	60	85	49	49	71	54	55	76	4.5	5.5	5.7
307243	Upgrade	65	60	85	49	48	72	36	37	61	-12.4	-10.7	-11.0
307244	Upgrade	65	60	85	49	49	77	52	53	76	2.6	4.1	-1.2
307245	Upgrade	65	60	85	50	49	72	54	55	77	4.4	5.5	4.6
307247	Upgrade	65	60	85	49	49	72	53	54	77	4.6	5.6	4.8
307249	Upgrade	65	60	85	49	48	69	54	55	77	4.9	6.1	7.7
307250	Upgrade	65	60	85	66	64	94	61	62	88	-4.9	-2.1	-6.1
307251	Upgrade	65	60	85	51	50	74	36	37	60	-15.2	-13.4	-14.4
307253	Upgrade	65	60	85	50	49	74	36	37	60	-14.4	-12.4	-13.8
307254	Upgrade	65	60	85	49	48	72	36	37	61	-12.7	-10.8	-11.4
307256	Upgrade	65	60	85	50	51	75	56	57	81	5.3	5.9	5.5
307259	Upgrade	65	60	85	51	52	75	57	58	82	5.3	6.1	6.5
307260	Upgrade	65	60	85	49	49	73	54	55	77	4.4	5.4	4.5
307261	Upgrade	65	60	85	50	50	74	55	56	79	5.0	5.7	5.6
307262	Upgrade	65	60	85	50	50	73	55	56	78	4.4	5.3	5.0
307263	Upgrade	65	60	85	50	50	73	54	55	78	4.5	5.5	5.2
307264	Upgrade	65	60	85	55	54	80	58	59	83	2.9	4.8	2.9
307265	Upgrade	65	60	85	50	50	73	55	56	78	4.4	5.3	5.2
307266	Upgrade	65	60	85	52	51	77	55	56	79	2.9	4.7	2.5
307267	Upgrade	65	60	85	49	48	74	52	53	78	3.2	5.0	4.0
307268	Upgrade	65	60	85	46	45	69	37	38	62	-8.4	-6.8	-6.4
307269	Upgrade	65	60	85	52	51	79	56	57	81	3.6	5.3	2.0
307271	Upgrade	65	60	85	43	43	67	48	49	72	4.6	5.4	5.7
307273	Upgrade	65	60	85	50	50	72	55	55	78	4.5	5.7	5.8
307274	New	60	55	80	-	-	-	50	51	74	-	-	-

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
307275	Upgrade	65	60	85	59	57	86	58	59	83	-1.1	1.5	-3.0
307276	Upgrade	65	60	85	62	60	89	60	61	88	-1.6	1.1	-0.8
307281	Upgrade	65	60	85	58	57	84	58	59	84	-0.2	2.2	-0.2
307282	Upgrade	65	60	85	50	49	75	37	38	62	-13.5	-11.5	-13.2
307283	Upgrade	65	60	85	53	52	78	55	56	80	2.2	4.2	2.1
307284	Upgrade	65	60	85	60	59	86	64	65	93	4.1	6.0	6.8
307286	Upgrade	65	60	85	51	51	80	56	57	81	5.1	6.2	1.2
307290	Upgrade	65	60	85	42	43	64	47	48	71	4.6	5.2	7.0
307291	Upgrade	65	60	85	44	44	67	50	51	73	6.5	7.2	6.0
307292	Upgrade	65	60	85	50	50	79	56	57	83	5.5	6.9	4.8
307293	Upgrade	65	60	85	41	41	64	45	46	70	4.6	5.3	5.8
307296	Upgrade	65	60	85	49	48	70	53	53	75	4.0	5.3	5.2
307297	Upgrade	65	60	85	70	68	97	69	70	96	-0.6	2.0	-0.4
307299	Upgrade	65	60	85	50	50	77	53	54	77	3.4	4.7	0.5
307300	Upgrade	65	60	85	64	62	92	58	59	86	-5.9	-3.1	-5.6
307301	Upgrade	65	60	85	43	43	65	47	49	71	4.8	5.6	6.3
307303	Upgrade	65	60	85	53	52	79	56	57	81	3.4	5.2	1.9
307304	Upgrade	65	60	85	62	61	88	64	65	88	1.2	3.5	0.3
307305	Upgrade	65	60	85	68	67	95	69	70	96	0.6	3.1	0.4
307306	Upgrade	65	60	85	38	38	63	42	43	67	4.5	5.3	4.4
307307	Upgrade	65	60	85	50	49	75	54	55	78	3.8	5.6	3.6
307309	Upgrade	65	60	85	51	50	75	35	36	60	-15.5	-13.7	-15.1
307310	Upgrade	65	60	85	32	33	56	37	38	62	4.9	5.6	5.6
307312	Upgrade	65	60	85	49	48	76	52	53	76	2.8	4.5	0.1
307313	Upgrade	65	60	85	49	49	69	54	55	78	5.0	6.2	8.8
307314	Upgrade	65	60	85	50	50	74	57	58	82	6.9	7.8	8.6
307316	Upgrade	65	60	85	52	51	78	55	56	80	2.1	4.2	2.1
307317	Upgrade	65	60	85	52	52	75	56	57	81	4.2	5.6	5.4
307321	Upgrade	65	60	85	65	63	92	59	60	86	-5.8	-3.0	-6.5
307322	Upgrade	65	60	85	47	47	71	53	54	78	6.5	7.5	7.6
307323	Upgrade	65	60	85	49	49	70	54	55	77	4.8	6.0	6.9
307326	Upgrade	65	60	85	50	50	74	55	56	79	5.2	6.4	5.2
307327	Upgrade	65	60	85	50	50	76	54	55	78	3.8	5.2	2.9
307328	Upgrade	65	60	85	47	48	72	52	53	76	4.6	5.3	4.8
307329	Upgrade	65	60	85	49	49	72	54	55	77	4.5	5.9	4.3
307330	Upgrade	65	60	85	44	45	66	49	50	71	5.1	5.9	5.7
307331	Upgrade	65	60	85	57	56	83	57	58	82	0.4	2.8	-1.0
307332	Upgrade	65	60	85	50	49	75	38	39	62	-12.3	-10.4	-12.6
307333	Upgrade	65	60	85	51	50	79	55	56	82	3.5	5.4	3.9
307334	Upgrade	65	60	85	49	48	74	51	52	75	1.9	4.0	1.9
307335	Upgrade	65	60	85	50	49	72	54	55	77	4.5	5.9	4.2
307336	Upgrade	65	60	85	44	44	66	49	50	72	5.4	6.0	6.3
307339	Upgrade	65	60	85	50	50	74	54	55	78	4.3	5.6	4.6
307341	Upgrade	65	60	85	72	70	100	69	70	96	-3.4	-0.6	-3.4
307342	Upgrade	65	60	85	45	46	69	50	51	74	5.1	5.8	5.7
307343	Upgrade	65	60	85	51	51	74	34	35	58	-16.9	-15.4	-15.7
307345	Upgrade	65	60	85	56	55	82	57	58	82	0.9	3.1	0.1
307347	Upgrade	65	60	85	50	50	71	55	56	79	4.9	6.1	7.6
307349	Upgrade	65	60	85	54	53	78	56	57	80	2.1	4.1	2.2
307351	Upgrade	65	60	85	50	49	78	54	55	79	3.5	5.4	0.6
307352	Upgrade	65	60	85	43	43	65	48	49	71	4.9	5.6	5.7



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax
307353	Upgrade	65	60	85	60	59	84	61	62	88	0.5	2.9	4.4
307357	Upgrade	65	60	85	63	61	90	57	58	85	-5.5	-2.6	-4.8
307359	Upgrade	65	60	85	38	38	62	43	44	68	4.9	5.6	5.5
307361	Upgrade	65	60	85	50	49	74	53	54	78	3.3	5.3	3.4
307362	Upgrade	65	60	85	50	49	75	51	52	75	0.8	2.8	-0.4
307363	Upgrade	65	60	85	49	48	76	51	52	75	1.3	3.4	-0.4
307364	Upgrade	65	60	85	48	48	75	52	53	76	3.7	5.3	0.3
307367	Upgrade	65	60	85	57	56	84	54	55	80	-2.8	-0.2	-4.4
307368	Upgrade	65	60	85	54	53	79	56	57	81	1.7	3.9	2.0
307369	Upgrade	65	60	85	55	53	81	56	57	80	0.9	3.3	-0.6
307370	Upgrade	65	60	85	51	51	74	36	37	61	-14.9	-13.3	-13.4
307371	Upgrade	65	60	85	45	45	68	50	52	74	5.3	6.1	6.4
307377	Upgrade	65	60	85	50	50	73	36	37	60	-14.8	-13.1	-13.4
307379	Upgrade	65	60	85	49	49	71	54	55	77	4.7	5.9	5.8
307380	Upgrade	65	60	85	67	65	95	63	64	90	-4.4	-1.5	-4.5
307381	Upgrade	65	60	85	49	49	74	54	55	78	4.5	5.9	4.4
307382	Upgrade	65	60	85	62	61	90	58	59	86	-4.9	-2.1	-4.1
307383	Upgrade	65	60	85	50	49	76	52	53	76	1.8	3.8	0.9
307384	Upgrade	65	60	85	48	47	73	51	52	76	3.0	4.8	2.4
307386	Upgrade	65	60	85	50	49	75	52	53	77	2.3	4.3	1.9
307387	Upgrade	65	60	85	50	49	73	39	40	64	-11.1	-9.4	-9.3
307389	Upgrade	65	60	85	55	54	81	56	57	81	1.2	3.3	0.5
307391	Upgrade	65	60	85	50	49	75	51	52	75	0.7	2.9	0.2
307393	Upgrade	65	60	85	58	57	85	56	57	82	-1.9	0.7	-3.9
307396	Upgrade	65	60	85	48	48	72	53	54	77	5.0	6.2	5.0
307397	Upgrade	65	60	85	69	67	97	64	65	92	-5.5	-2.6	-5.1
307399	Upgrade	65	60	85	53	52	81	58	59	84	5.1	6.6	3.9
307402	Upgrade	65	60	85	46	46	72	51	52	76	5.5	6.5	3.9
307403	Upgrade	65	60	85	50	49	70	54	55	77	4.6	5.8	6.2
307406	Upgrade	65	60	85	43	43	64	43	44	68	0.0	0.9	3.6
307407	Upgrade	65	60	85	58	57	84	59	60	87	1.0	3.4	3.6
307408	Upgrade	65	60	85	49	49	72	54	55	78	5.3	6.1	6.5
307409	Upgrade	65	60	85	50	49	77	51	52	76	0.9	3.2	-0.8
307411	Upgrade	65	60	85	51	50	79	56	57	83	5.3	6.8	4.1
307412	Upgrade	65	60	85	51	50	76	37	38	62	-14.3	-12.3	-14.1
307413	Upgrade	65	60	85	59	59	84	63	64	88	4.1	5.8	3.8
307417	Upgrade	65	60	85	49	50	72	56	57	80	6.1	6.9	8.7
307419	Upgrade	65	60	85	53	52	78	54	55	79	1.1	3.3	1.1
307420	Upgrade	65	60	85	53	51	77	54	56	79	1.9	4.1	1.6
307421	Upgrade	65	60	85	46	46	69	51	52	75	5.1	5.8	5.6
307422	Upgrade	65	60	85	50	50	72	55	55	76	4.3	5.6	4.7
307424	Upgrade	65	60	85	48	48	75	50	51	74	1.8	3.7	-0.8
307425	Upgrade	65	60	85	61	59	88	59	60	86	-1.7	0.9	-1.8
307426	Upgrade	65	60	85	61	60	89	56	57	84	-5.6	-2.8	-5.4
307427	Upgrade	65	60	85	51	50	75	53	54	78	2.2	4.1	2.5
307430	Upgrade	65	60	85	49	48	74	52	53	76	2.9	4.5	2.2
307431	Upgrade	65	60	85	47	46	73	51	52	76	4.6	6.3	3.0
307432	Upgrade	65	60	85	64	62	92	57	58	85	-7.0	-4.1	-7.2
307433	Upgrade	65	60	85	45	45	67	50	51	73	5.2	5.9	5.6
307435	Upgrade	65	60	85	52	51	78	55	56	80	3.0	4.9	2.6
307436	Upgrade	65	60	85	49	48	73	51	52	75	2.5	4.5	1.9

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
307438	Upgrade	65	60	85	50	49	75	51	52	76	1.7	3.7	0.7
307439	Upgrade	65	60	85	69	67	97	64	65	92	-5.6	-2.7	-5.1
307440	Upgrade	65	60	85	54	53	80	55	56	80	0.6	2.8	0.0
307441	Upgrade	65	60	85	49	48	73	52	53	76	2.9	4.8	3.2
307442	Upgrade	65	60	85	53	52	76	37	39	62	-15.3	-13.7	-13.8
307443	Upgrade	65	60	85	44	45	67	50	51	73	5.2	6.0	6.6
307445	Upgrade	65	60	85	52	51	74	38	39	62	-14.2	-12.6	-12.0
307448	Upgrade	65	60	85	48	47	73	50	52	75	2.0	4.2	1.9
307449	Upgrade	65	60	85	49	48	75	50	51	74	0.6	2.9	-0.1
307451	Upgrade	65	60	85	40	40	62	40	42	65	0.5	1.9	3.3
307453	Upgrade	65	60	85	56	54	81	55	56	80	-0.4	2.0	-1.3
307454	Upgrade	65	60	85	53	52	80	53	55	78	0.3	2.7	-2.1
307458	Upgrade	65	60	85	47	46	71	50	51	74	3.0	4.8	3.0
307460	Upgrade	65	60	85	48	47	72	49	50	74	1.0	3.1	1.4
307462	Upgrade	65	60	85	53	53	80	57	58	81	3.6	5.0	0.9
307463	Upgrade	65	60	85	52	52	74	56	57	79	3.4	4.9	4.3
307464	Upgrade	65	60	85	58	57	85	58	59	86	0.2	2.7	1.1
307466	Upgrade	65	60	85	52	51	77	53	54	78	1.5	3.5	1.1
307467	Upgrade	65	60	85	58	56	83	57	59	85	-0.4	2.2	1.9
307469	Upgrade	65	60	85	51	51	74	39	40	64	-12.4	-10.9	-10.2
307470	Upgrade	65	60	85	49	48	74	52	53	76	2.3	4.4	2.2
307476	Upgrade	65	60	85	53	52	78	54	55	79	1.2	3.4	0.9
307477	Upgrade	65	60	85	38	38	62	43	44	67	4.7	5.4	5.0
307478	Upgrade	65	60	85	60	58	87	55	56	83	-5.2	-2.3	-4.6
307479	Upgrade	65	60	85	41	41	65	47	49	71	6.3	7.1	6.3
307483	Upgrade	65	60	85	60	58	88	55	56	83	-4.8	-1.9	-5.0
307485	Upgrade	65	60	85	52	51	77	53	54	78	1.2	3.4	1.0
307486	New	60	55	80	-	-	-	56	57	81	-	-	-
307489	Upgrade	65	60	85	56	55	82	60	61	86	4.3	5.9	3.7
307491	Upgrade	65	60	85	47	48	70	53	54	76	5.4	6.1	5.9
307493	Upgrade	65	60	85	53	52	76	38	39	62	-15.4	-13.8	-14.0
307498	Upgrade	65	60	85	41	41	64	46	47	71	4.7	5.5	6.4
307500	Upgrade	65	60	85	57	55	83	57	58	85	0.7	3.0	1.5
307501	Upgrade	65	60	85	54	54	81	59	60	84	4.9	5.9	2.4
307503	Upgrade	65	60	85	51	51	75	37	38	62	-14.0	-12.4	-13.3
307504	Upgrade	65	60	85	56	54	82	55	55	82	-1.4	1.1	-0.7
307505	Upgrade	65	60	85	49	48	73	50	51	74	1.2	3.3	0.7
307506	Upgrade	65	60	85	49	49	75	52	53	77	3.0	4.8	2.4
307508	Upgrade	65	60	85	51	50	77	51	52	76	0.2	2.5	-0.8
307511	Upgrade	65	60	85	46	46	69	52	53	76	6.7	7.4	6.7
307514	Upgrade	65	60	85	56	55	83	54	55	79	-2.1	0.4	-3.8
307518	Upgrade	65	60	85	54	54	83	59	60	84	4.7	5.6	0.4
307519	Upgrade	65	60	85	56	54	82	57	58	84	1.3	3.6	2.6
307520	Upgrade	65	60	85	50	49	74	52	53	76	2.1	4.2	1.1
307521	Upgrade	65	60	85	48	48	72	53	54	77	5.2	5.9	5.1
307522	Upgrade	65	60	85	64	62	92	62	63	86	-2.4	0.3	-5.2
307523	Upgrade	65	60	85	54	53	80	53	54	78	-0.8	1.6	-2.5
307524	Upgrade	65	60	85	44	44	68	50	51	74	6.0	6.7	5.8
307525	Upgrade	65	60	85	58	58	87	64	65	89	5.2	6.2	1.7
307526	Upgrade	65	60	85	55	55	85	60	61	85	4.3	5.4	-0.6
307529	Upgrade	65	60	85	52	51	78	53	55	78	1.0	3.3	0.3

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA			
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	
307531	Upgrade	65	60	85	85	54	53	79	53	54	78	-0.4	1.8	-1.2
307533	Upgrade	65	60	85	61	59	89	55	56	83	-6.0	-3.1	-5.4	
307536	Upgrade	65	60	85	61	59	88	55	56	82	-5.7	-2.9	-6.0	
307537	Upgrade	65	60	85	52	51	75	39	40	64	-12.8	-11.0	-10.7	
307539	Upgrade	65	60	85	53	53	76	36	37	61	-16.5	-15.2	-14.8	
307540	Upgrade	65	60	85	49	48	74	50	51	75	0.8	3.1	0.4	
307541	Upgrade	65	60	85	29	29	51	33	34	58	4.7	5.4	6.6	
307543	Upgrade	65	60	85	42	43	66	48	49	73	5.8	6.5	7.0	
307550	Upgrade	65	60	85	56	55	81	56	57	84	0.1	2.5	2.9	
307551	Upgrade	65	60	85	47	46	71	51	52	74	3.6	5.3	3.8	
307552	Upgrade	65	60	85	33	33	58	38	39	63	4.7	5.3	4.4	
307553	Upgrade	65	60	85	54	54	79	35	36	59	-19.6	-18.7	-19.9	
307555	Upgrade	65	60	85	49	48	74	51	52	75	1.7	3.7	0.7	
307560	Upgrade	65	60	85	63	61	91	61	62	86	-1.7	1.0	-4.4	
307561	Upgrade	65	60	85	55	53	82	54	55	78	-1.0	1.5	-3.6	
307562	Upgrade	65	60	85	55	54	82	52	53	77	-3.1	-0.5	-5.1	
307564	Upgrade	65	60	85	56	54	83	56	57	84	0.6	3.0	1.2	
307567	Upgrade	65	60	85	48	47	74	52	53	76	4.0	5.5	2.4	
307569	Upgrade	65	60	85	49	48	73	51	52	75	2.4	4.3	2.0	
307572	Upgrade	65	60	85	41	41	64	46	47	70	4.9	5.6	6.0	
307573	Upgrade	65	60	85	50	49	74	51	52	75	1.8	3.8	1.0	
307574	Upgrade	65	60	85	58	57	86	54	55	81	-4.7	-1.9	-4.6	
307576	Upgrade	65	60	85	52	51	79	53	54	81	0.9	3.3	1.8	
307577	Upgrade	65	60	85	55	55	79	37	38	61	-18.0	-16.9	-17.9	
307578	Upgrade	65	60	85	53	53	76	39	40	63	-14.8	-13.1	-13.3	
307580	Upgrade	65	60	85	52	52	75	39	40	63	-13.2	-11.8	-12.2	
307582	Upgrade	65	60	85	56	54	82	57	58	85	0.9	3.4	3.3	
307585	Upgrade	65	60	85	58	56	85	54	55	81	-4.0	-1.2	-4.2	
307588	Upgrade	65	60	85	52	51	77	53	54	77	0.7	2.9	-0.3	
307589	Upgrade	65	60	85	27	27	51	32	33	57	4.9	5.6	6.1	
307590	Upgrade	65	60	85	54	53	80	54	55	80	-0.8	1.7	-0.2	
307591	Upgrade	65	60	85	26	26	49	31	32	54	4.9	5.5	5.7	
307593	Upgrade	65	60	85	33	34	56	38	39	62	4.5	5.2	5.9	
307594	Upgrade	65	60	85	52	51	79	51	52	75	-1.3	1.3	-3.4	
307597	Upgrade	65	60	85	49	48	74	51	52	75	1.7	3.8	0.6	
307598	Upgrade	65	60	85	41	41	63	40	41	65	-0.9	0.1	1.9	
307599	Upgrade	65	60	85	60	58	87	60	61	85	-0.1	2.5	-2.1	
307606	Upgrade	65	60	85	46	47	70	52	53	76	6.1	6.8	5.9	
307607	Upgrade	65	60	85	53	52	79	53	54	77	-0.1	2.3	-2.0	
307613	Upgrade	65	60	85	54	53	80	56	57	83	1.9	4.2	3.2	
307614	Upgrade	65	60	85	53	52	79	56	57	84	2.2	4.3	4.9	
307617	Upgrade	65	60	85	42	42	65	46	47	71	4.8	5.5	6.2	
307619	Upgrade	65	60	85	51	50	75	52	54	77	1.7	3.8	1.4	
307620	Upgrade	65	60	85	52	50	77	51	52	75	-0.8	1.6	-1.9	
307621	Upgrade	65	60	85	50	49	73	54	55	76	4.2	5.5	3.1	
307624	Upgrade	65	60	85	57	56	85	53	54	79	-4.2	-1.4	-5.4	
307625	Upgrade	65	60	85	45	45	69	51	52	75	6.4	7.1	6.0	
307627	Upgrade	65	60	85	59	57	86	59	60	84	0.1	2.6	-1.6	
307628	Upgrade	65	60	85	55	53	81	52	53	76	-3.0	-0.3	-5.4	
307630	Upgrade	65	60	85	51	51	75	55	56	77	4.1	5.4	2.1	
307631	New	60	55	80	-	-	-	52	52	73	-	-	-	



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA				Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	
307632	Upgrade	65	60	85	52	51	79	52	53	77	-0.4	2.0	-2.5	
307633	Upgrade	65	60	85	48	49	74	54	55	78	5.1	5.8	4.0	
307634	Upgrade	65	60	85	57	56	84	54	55	81	-3.8	-1.1	-3.8	
307636	Upgrade	65	60	85	18	18	43	25	26	50	7.2	7.9	7.2	
307638	Upgrade	65	60	85	53	52	78	54	55	78	1.1	3.2	0.3	
307639	Upgrade	65	60	85	48	48	73	53	54	77	5.2	5.9	4.6	
307640	Upgrade	65	60	85	52	51	77	53	54	77	1.1	3.3	0.5	
307642	Upgrade	65	60	85	49	48	73	51	52	75	1.5	3.6	1.3	
307643	Upgrade	65	60	85	53	51	78	53	54	77	0.7	3.0	-0.2	
307644	Upgrade	65	60	85	48	47	72	51	52	75	2.8	4.5	2.9	
307645	Upgrade	65	60	85	55	53	78	55	56	82	0.3	2.6	3.7	
307646	Upgrade	65	60	85	53	52	79	54	55	78	0.4	2.7	-1.0	
307647	Upgrade	65	60	85	54	53	79	55	56	82	1.0	3.3	2.6	
307648	Upgrade	65	60	85	49	49	73	54	55	78	5.1	5.9	5.3	
307649	Upgrade	65	60	85	57	56	84	59	60	84	1.8	4.2	-0.2	
307650	Upgrade	65	60	85	54	52	80	52	53	77	-1.2	1.3	-3.3	
307652	Upgrade	65	60	85	41	41	64	46	47	70	4.8	5.5	6.4	
307654	New	60	55	80	-	-	-	53	53	76	-	-	-	
307656	Upgrade	65	60	85	49	48	72	51	52	75	2.5	4.3	2.8	
307658	Upgrade	65	60	85	41	41	62	42	43	67	0.4	1.4	4.4	
307659	Upgrade	65	60	85	41	41	64	46	47	70	4.9	5.6	6.2	
307665	Upgrade	65	60	85	49	48	73	51	52	75	2.7	4.6	2.7	
307667	Upgrade	65	60	85	36	36	61	40	41	65	4.7	5.5	4.8	
307669	Upgrade	65	60	85	52	52	75	37	38	62	-15.6	-14.0	-13.3	
307671	Upgrade	65	60	85	50	50	74	55	56	79	4.9	5.7	5.1	
307672	Upgrade	65	60	85	49	48	73	51	52	75	1.6	3.6	1.8	
307673	Upgrade	65	60	85	51	50	76	51	52	75	0.5	2.6	-1.0	
307674	Upgrade	65	60	85	42	42	65	43	44	68	1.3	2.2	3.8	
307675	Upgrade	65	60	85	54	53	79	55	56	82	0.7	3.1	2.5	
307676	Upgrade	65	60	85	53	52	80	53	54	77	-0.6	1.8	-3.1	
307677	Upgrade	65	60	85	52	51	76	52	54	77	0.7	3.0	0.7	
307678	Upgrade	65	60	85	49	48	72	50	51	74	1.8	3.8	2.6	
307680	Upgrade	65	60	85	51	50	76	52	53	75	0.8	3.1	-0.8	
307682	Upgrade	65	60	85	44	43	71	47	48	71	3.3	4.8	0.0	
307683	Upgrade	65	60	85	46	47	70	53	54	77	6.7	7.3	7.5	
307685	Upgrade	65	60	85	52	50	77	51	52	75	-0.4	2.0	-2.0	
307686	Upgrade	65	60	85	45	45	66	44	45	69	-0.4	0.7	3.5	
307687	Upgrade	65	60	85	26	26	51	31	32	56	5.2	6.0	5.1	
307688	Upgrade	65	60	85	57	55	84	52	53	80	-4.5	-1.6	-4.1	
307689	Upgrade	65	60	85	49	49	74	52	53	75	2.1	4.1	1.4	
307690	Upgrade	65	60	85	47	46	70	50	52	75	3.4	5.1	4.3	
307693	Upgrade	65	60	85	54	53	81	53	54	78	-1.0	1.5	-2.7	
307694	Upgrade	65	60	85	46	45	69	50	51	73	3.6	5.2	3.4	
307698	Upgrade	65	60	85	48	48	71	52	53	77	4.8	5.5	6.1	
307700	Upgrade	65	60	85	48	48	71	54	55	78	5.7	6.4	7.8	
307702	Upgrade	65	60	85	54	53	80	44	45	69	-10.1	-7.6	-11.0	
307703	Upgrade	65	60	85	50	49	75	51	52	75	1.4	3.4	0.3	
307704	Upgrade	65	60	85	49	49	74	54	55	78	5.0	5.7	4.4	
307705	Upgrade	65	60	85	57	55	84	54	55	79	-3.6	-0.8	-4.7	
307706	Upgrade	65	60	85	51	51	74	55	56	78	4.2	5.4	3.7	
307710	Upgrade	65	60	85	57	55	83	53	54	80	-4.0	-1.2	-3.7	

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
307712	Upgrade	65	60	85	50	49	75	52	53	75	1.5	3.5	0.4
307713	Upgrade	65	60	85	53	52	79	56	57	81	2.7	4.8	1.4
307715	Upgrade	65	60	85	51	51	74	56	57	80	5.2	5.9	5.5
307717	Upgrade	65	60	85	49	47	73	49	50	73	0.3	2.6	-0.8
307718	Upgrade	65	60	85	40	40	61	39	40	64	-0.4	0.7	3.5
307723	Upgrade	65	60	85	54	53	79	54	55	80	0.3	2.7	0.7
307726	Upgrade	65	60	85	51	50	75	53	54	76	1.8	3.8	1.0
307727	Upgrade	65	60	85	54	52	79	53	54	77	-0.9	1.6	-1.2
307728	Upgrade	65	60	85	48	47	73	48	49	72	0.5	2.8	-0.7
307729	Upgrade	65	60	85	52	51	78	52	53	76	0.0	2.3	-1.8
307730	Upgrade	65	60	85	55	53	80	52	53	78	-2.5	0.2	-2.1
307732	Upgrade	65	60	85	35	36	59	40	41	65	4.8	5.6	5.9
307734	Upgrade	65	60	85	50	50	74	55	56	79	5.3	5.9	4.9
307736	Upgrade	65	60	85	51	50	76	52	53	76	1.0	3.1	0.0
307738	Upgrade	65	60	85	54	53	80	54	55	81	0.0	2.4	0.7
307739	Upgrade	65	60	85	48	47	72	49	50	73	1.3	3.5	0.6
307740	Upgrade	65	60	85	51	50	76	52	53	76	1.1	3.3	0.2
307743	Upgrade	65	60	85	51	50	76	52	53	75	0.6	2.8	-0.4
307744	Upgrade	65	60	85	50	50	74	55	56	79	5.1	5.8	4.9
307745	Upgrade	65	60	85	47	46	71	49	50	72	2.3	4.2	1.6
307746	Upgrade	65	60	85	52	50	79	51	52	79	-0.2	2.2	0.6
307747	Upgrade	65	60	85	43	43	64	43	44	68	-0.5	0.8	3.9
307748	Upgrade	65	60	85	49	47	73	49	50	72	0.8	2.9	-0.7
307750	Upgrade	65	60	85	56	55	82	58	59	83	2.0	4.2	0.9
307751	Upgrade	65	60	85	54	52	80	55	56	81	1.4	3.8	1.3
307752	Upgrade	65	60	85	52	50	77	52	53	76	0.2	2.6	-1.1
307753	Upgrade	65	60	85	49	47	73	50	51	73	1.1	3.3	0.3
307757	Upgrade	65	60	85	47	46	71	49	50	73	2.0	4.0	1.8
307760	Upgrade	65	60	85	48	48	72	54	55	78	6.6	7.4	6.3
307761	Upgrade	65	60	85	47	46	72	48	49	72	1.8	3.9	-0.1
307762	Upgrade	65	60	85	49	50	73	54	55	78	5.0	5.7	5.1
307764	Upgrade	65	60	85	49	48	74	50	51	74	0.7	2.8	-0.3
307767	Upgrade	65	60	85	38	39	62	43	44	68	5.0	5.8	6.1
307768	Upgrade	65	60	85	50	48	75	50	51	73	0.6	2.9	-2.1
307770	Upgrade	65	60	85	49	50	73	55	56	79	5.5	6.1	5.3
307771	Upgrade	65	60	85	41	41	63	40	41	65	-0.7	0.4	2.2
307772	Upgrade	65	60	85	49	48	74	49	50	72	-0.2	2.1	-2.0
307773	Upgrade	65	60	85	38	39	62	43	44	68	4.9	5.6	5.7
307775	Upgrade	65	60	85	59	57	85	60	61	84	1.1	3.4	-0.6
307777	Upgrade	65	60	85	52	51	76	52	53	76	0.2	2.5	-0.6
307778	Upgrade	65	60	85	48	46	72	49	50	71	1.1	3.3	-0.5
307779	Upgrade	65	60	85	49	49	73	54	55	79	5.3	6.0	6.1
307781	Upgrade	65	60	85	53	52	79	53	54	77	-0.7	1.8	-2.5
307782	Upgrade	65	60	85	54	52	80	53	54	77	-0.3	2.1	-3.6
307783	Upgrade	65	60	85	52	51	77	52	53	76	0.1	2.4	-1.0
307786	Upgrade	65	60	85	45	45	67	49	51	73	4.6	5.4	5.9
307787	Upgrade	65	60	85	47	46	71	49	50	73	1.8	3.9	1.3
307788	Upgrade	65	60	85	24	25	50	31	32	56	6.6	7.4	6.1
307790	Upgrade	65	60	85	49	48	74	50	51	74	0.6	2.9	-0.3
307791	Upgrade	65	60	85	52	50	76	51	52	75	-1.1	1.5	-1.4
307793	Upgrade	65	60	85	50	49	76	50	51	74	-0.6	1.9	-1.8

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA			
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	
307795	Upgrade	65	60	85	85	50	51	75	56	57	80	5.1	5.8	4.5
307799	Upgrade	65	60	85	85	54	53	79	52	53	76	-2.6	0.0	-3.4
307800	Upgrade	65	60	85	85	51	50	76	52	53	76	1.1	3.3	-0.4
307801	Upgrade	65	60	85	85	52	51	79	53	54	77	0.6	2.9	-1.6
307803	Upgrade	65	60	85	85	40	41	64	45	46	70	5.0	5.6	5.8
307807	Upgrade	65	60	85	85	47	46	72	48	49	72	0.8	3.0	-0.3
307808	Upgrade	65	60	85	85	47	47	71	53	54	78	5.8	6.5	6.6
307810	Upgrade	65	60	85	85	50	49	77	49	50	73	-0.6	1.8	-3.5
307812	Upgrade	65	60	85	85	43	43	65	48	49	72	4.8	6.1	6.6
307815	Upgrade	65	60	85	85	48	47	74	49	50	72	0.8	3.0	-1.4
307817	Upgrade	65	60	85	85	50	49	75	50	51	74	-0.1	2.3	-0.9
307818	Upgrade	65	60	85	85	50	48	76	49	51	74	-0.3	2.2	-2.2
307820	Upgrade	65	60	85	85	48	47	73	49	50	74	1.8	3.9	0.8
307824	Upgrade	65	60	85	85	56	56	83	62	63	87	6.3	7.4	4.0
307827	Upgrade	65	60	85	85	51	49	76	50	51	74	-0.9	1.6	-2.0
307829	Upgrade	65	60	85	85	53	52	78	54	55	78	0.6	3.0	-0.6
307830	Upgrade	65	60	85	85	37	37	62	41	43	66	4.8	5.6	4.3
307831	Upgrade	65	60	85	85	54	52	82	51	52	75	-3.2	-0.5	-6.6
307832	Upgrade	65	60	85	85	51	49	75	49	50	73	-1.4	1.1	-1.8
307833	Upgrade	65	60	85	85	55	53	79	54	55	80	-0.7	1.8	1.1
307835	Upgrade	65	60	85	85	53	52	78	54	55	79	0.9	3.3	0.5
307836	Upgrade	65	60	85	85	49	47	73	49	50	73	0.0	2.4	-0.1
307837	Upgrade	65	60	85	85	54	52	80	53	54	78	-0.4	2.1	-2.2
307838	Upgrade	65	60	85	85	48	47	72	49	50	72	0.8	3.0	0.7
307840	Upgrade	65	60	85	85	53	52	78	53	54	79	-0.1	2.4	0.2
307841	Upgrade	65	60	85	85	18	18	41	26	28	51	8.5	9.3	10.1
307845	Upgrade	65	60	85	85	38	38	61	43	44	68	5.1	5.7	6.8
307848	Upgrade	65	60	85	85	61	62	87	36	37	59	-25.2	-24.4	-27.9
307852	Upgrade	65	60	85	85	48	47	74	48	49	72	-0.2	2.2	-2.0
307853	Upgrade	65	60	85	85	48	48	74	57	58	81	9.1	9.8	6.8
307854	Upgrade	65	60	85	85	55	54	80	57	58	81	1.7	4.1	0.9
307857	Upgrade	65	60	85	85	49	48	74	50	51	73	0.9	3.1	-0.8
307858	Upgrade	65	60	85	85	53	52	79	55	56	80	2.6	4.7	0.6
307859	Upgrade	65	60	85	85	59	57	86	58	59	82	-1.1	1.5	-3.8
307867	Upgrade	65	60	85	85	52	50	78	50	51	74	-1.8	0.7	-3.5
307868	Upgrade	65	60	85	85	49	47	73	49	50	72	0.0	2.4	-1.0
307869	Upgrade	65	60	85	85	50	49	75	50	51	74	-0.4	2.1	-1.6
307870	Upgrade	65	60	85	85	50	49	76	49	50	73	-1.5	1.1	-2.9
307872	Upgrade	65	60	85	85	51	49	76	50	51	74	-0.6	1.8	-2.7
307873	Upgrade	65	60	85	85	56	56	82	36	37	58	-20.5	-19.7	-23.3
307874	Upgrade	65	60	85	85	50	49	76	50	51	73	-0.3	2.1	-2.4
307875	Upgrade	65	60	85	85	47	47	70	52	53	76	4.8	5.5	5.9
307876	Upgrade	65	60	85	85	51	49	76	49	50	73	-1.7	0.8	-3.1
307882	Upgrade	65	60	85	85	48	46	73	49	50	72	0.9	3.2	-1.2
307889	Upgrade	65	60	85	85	58	56	85	57	58	83	-0.6	2.0	-1.4
307890	Upgrade	65	60	85	85	48	47	73	48	49	72	-0.3	2.1	-1.0
307891	Upgrade	65	60	85	85	56	55	82	59	60	84	2.2	4.5	2.2
307894	Upgrade	65	60	85	85	57	56	83	40	41	64	-17.2	-15.2	-18.1
307897	Upgrade	65	60	85	85	50	49	74	50	51	74	0.3	2.6	-0.6
307898	Upgrade	65	60	85	85	40	41	64	45	46	70	5.0	5.7	5.9
307899	Upgrade	65	60	85	85	51	49	77	50	51	74	-1.0	1.5	-2.8



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA				Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	
307901	Upgrade	65	60	85	85	52	51	79	53	54	79	0.4	2.8	-0.3
307902	Upgrade	65	60	85	58	57	85	58	59	83	-0.5	2.2	-2.3	
307905	Upgrade	65	60	85	48	47	74	48	49	72	0.1	2.5	-1.8	
307909	Upgrade	65	60	85	43	43	66	48	49	72	4.7	5.5	6.2	
307910	Upgrade	65	60	85	56	55	82	59	60	84	2.9	4.8	1.9	
307911	Upgrade	65	60	85	56	55	83	58	59	83	1.7	4.0	0.3	
307914	Upgrade	65	60	85	51	49	75	50	51	74	-0.6	1.8	-1.3	
307915	Upgrade	65	60	85	53	51	78	52	53	76	-1.4	1.2	-1.7	
307919	Upgrade	65	60	85	57	55	83	56	57	81	-0.2	2.2	-2.3	
307922	Upgrade	65	60	85	46	45	70	48	49	72	2.4	4.4	1.6	
307923	Upgrade	65	60	85	52	52	75	56	57	80	4.9	5.6	4.9	
307925	Upgrade	65	60	85	45	44	69	48	49	72	3.0	4.8	3.0	
307927	Upgrade	65	60	85	49	48	73	50	51	74	0.9	3.0	0.7	
307930	Upgrade	65	60	85	48	48	71	52	53	77	4.6	5.3	5.4	
307932	Upgrade	65	60	85	45	44	69	49	50	72	3.5	5.2	2.1	
307933	Upgrade	65	60	85	56	55	83	56	57	80	-0.8	1.8	-3.0	
307937	Upgrade	65	60	85	47	46	72	49	50	73	1.9	4.0	1.1	
307938	Upgrade	65	60	85	52	50	78	50	51	73	-2.3	0.4	-5.2	
307939	Upgrade	65	60	85	50	49	75	50	51	73	-0.4	1.9	-1.3	
307941	Upgrade	65	60	85	56	55	81	60	61	85	3.8	5.6	3.9	
307944	Upgrade	65	60	85	39	40	64	44	46	69	5.2	6.0	5.7	
307945	Upgrade	65	60	85	48	47	72	49	50	72	0.9	3.1	-0.2	
307947	Upgrade	65	60	85	48	47	74	48	49	72	-0.2	2.3	-1.8	
307952	Upgrade	65	60	85	52	52	76	56	58	81	4.8	5.6	4.5	
307953	Upgrade	65	60	85	49	48	74	49	50	73	0.3	2.6	-1.3	
307954	Upgrade	65	60	85	55	55	82	61	62	86	6.2	7.3	4.0	
307957	New	60	55	80	-	-	-	62	63	86	-	-	-	
307960	Upgrade	65	60	85	34	34	59	39	40	64	4.7	5.4	4.5	
307961	Upgrade	65	60	85	50	49	75	50	51	74	0.4	2.8	-1.3	
307962	Upgrade	65	60	85	56	54	80	40	41	64	-15.9	-13.7	-15.6	
307963	Upgrade	65	60	85	54	54	79	34	35	58	-19.7	-18.8	-20.9	
307966	Upgrade	65	60	85	55	55	83	61	62	86	6.0	7.2	3.0	
307967	Upgrade	65	60	85	44	44	65	44	45	69	-0.2	0.9	3.9	
307968	Upgrade	65	60	85	51	50	78	52	53	77	0.5	2.9	-1.7	
307971	Upgrade	65	60	85	46	45	70	48	49	71	1.6	3.7	0.5	
307976	Upgrade	65	60	85	51	50	76	50	51	75	-0.9	1.6	-1.8	
307980	Upgrade	65	60	85	49	48	74	49	50	73	-0.6	1.8	-1.6	
307983	Upgrade	65	60	85	50	49	76	49	50	74	-0.7	1.8	-2.1	
307984	Upgrade	65	60	85	51	49	76	51	52	75	0.4	2.8	-1.4	
307985	Upgrade	65	60	85	46	45	70	48	49	72	1.8	3.8	1.4	
307988	Upgrade	65	60	85	49	48	74	49	50	73	0.0	2.3	-0.7	
307994	Upgrade	65	60	85	59	58	84	38	39	63	-20.5	-18.4	-20.8	
307995	Upgrade	65	60	85	55	54	81	57	58	81	1.4	3.7	0.4	
307996	Upgrade	65	60	85	48	46	72	48	49	72	0.9	3.1	-0.6	
308001	Upgrade	65	60	85	40	41	64	45	46	70	4.9	5.6	6.0	
308002	Upgrade	65	60	85	38	38	62	43	44	68	4.7	5.5	5.6	
308004	Upgrade	65	60	85	43	44	67	48	49	73	4.9	5.6	5.7	
308005	Upgrade	65	60	85	45	45	68	50	51	74	4.1	5.5	6.0	
308006	Upgrade	65	60	85	50	51	75	58	59	82	7.5	8.2	6.8	
308007	Upgrade	65	60	85	51	50	76	51	52	74	-0.4	2.1	-1.4	
308011	Upgrade	65	60	85	45	44	69	47	48	71	2.3	4.2	1.8	

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax
308012	Upgrade	65	60	85	40	40	63	45	46	70	4.9	5.6	6.4
308014	Upgrade	65	60	85	50	48	75	49	50	72	-0.5	2.0	-2.2
308015	Upgrade	65	60	85	52	50	78	49	50	75	-2.6	0.1	-3.4
308016	Upgrade	65	60	85	55	53	81	56	57	81	1.4	3.7	0.0
308018	Upgrade	65	60	85	46	45	71	48	49	71	1.5	3.6	-0.2
308020	Upgrade	65	60	85	48	49	75	57	58	82	9.1	9.8	6.5
308022	Upgrade	65	60	85	53	53	78	58	59	82	5.2	5.9	4.5
308023	Upgrade	65	60	85	59	58	82	40	41	64	-18.8	-16.8	-18.3
308024	Upgrade	65	60	85	54	53	78	41	42	65	-13.4	-11.3	-12.9
308026	Upgrade	65	60	85	44	44	66	47	48	72	3.2	4.9	5.5
308027	Upgrade	65	60	85	48	47	73	48	49	72	0.4	2.7	-0.9
308029	Upgrade	65	60	85	50	49	77	48	49	72	-2.0	0.6	-4.1
308030	Upgrade	65	60	85	40	41	63	45	46	70	4.9	5.6	6.8
308031	Upgrade	65	60	85	52	50	79	51	52	75	-0.9	1.6	-4.2
308033	Upgrade	65	60	85	39	39	63	44	45	69	5.0	5.7	5.5
308035	Upgrade	65	60	85	49	48	75	49	50	72	-0.4	2.0	-2.2
308036	Upgrade	65	60	85	42	43	66	47	48	72	4.9	5.5	6.1
308037	Upgrade	65	60	85	49	48	75	51	52	75	1.5	3.7	-0.6
308038	Upgrade	65	60	85	53	53	78	58	59	82	4.7	5.5	3.9
308039	Upgrade	65	60	85	49	47	72	50	51	73	1.0	3.3	0.4
308042	Upgrade	65	60	85	52	50	77	51	52	76	-0.2	2.3	-1.4
308043	Upgrade	65	60	85	48	46	72	48	49	71	-0.1	2.2	-0.6
308045	Upgrade	65	60	85	44	44	66	44	45	68	-0.9	0.2	2.0
308046	Upgrade	65	60	85	50	48	75	48	49	72	-1.6	1.0	-3.2
308054	Upgrade	65	60	85	49	48	75	50	51	73	0.7	3.0	-1.4
308055	Upgrade	65	60	85	54	53	81	56	57	81	1.7	3.9	0.3
308057	Upgrade	65	60	85	53	51	79	49	50	75	-3.4	-0.7	-3.6
308061	Upgrade	65	60	85	48	47	72	50	51	73	1.8	3.8	0.3
308062	Upgrade	65	60	85	48	46	73	48	49	71	0.0	2.4	-1.5
308065	Upgrade	65	60	85	46	45	71	47	48	70	0.6	2.9	-0.5
308066	Upgrade	65	60	85	61	61	90	67	68	92	6.4	7.4	2.2
308067	Upgrade	65	60	85	49	47	74	50	51	73	0.9	3.1	-1.0
308070	Upgrade	65	60	85	50	49	77	49	50	73	-1.2	1.3	-4.3
308074	Upgrade	65	60	85	46	45	70	48	49	71	1.7	3.8	0.7
308076	Upgrade	65	60	85	46	45	70	48	49	71	1.6	3.6	0.6
308077	Upgrade	65	60	85	53	53	78	58	59	82	4.8	5.6	4.0
308081	Upgrade	65	60	85	45	44	66	42	43	66	-3.0	-1.7	0.8
308082	Upgrade	65	60	85	51	50	77	50	51	74	-1.3	1.3	-3.6
308083	Upgrade	65	60	85	47	46	72	48	49	72	0.8	3.0	-0.2
308084	Upgrade	65	60	85	47	46	73	49	50	73	2.2	4.2	-0.1
308085	Upgrade	65	60	85	54	54	80	59	60	83	4.8	5.5	3.9
308086	Upgrade	65	60	85	54	54	79	58	59	83	4.8	5.5	4.2
308089	Upgrade	65	60	85	46	45	71	47	48	71	1.1	3.3	-0.3
308091	Upgrade	65	60	85	54	54	78	59	60	83	4.7	5.3	4.5
308095	Upgrade	65	60	85	51	50	77	53	54	77	1.9	4.1	-0.2
308096	Upgrade	65	60	85	49	47	76	47	48	71	-1.4	1.2	-4.3
308097	Upgrade	65	60	85	48	47	73	49	50	73	0.5	2.8	0.0
308098	Upgrade	65	60	85	50	48	76	49	50	73	-0.8	1.7	-3.0
308099	Upgrade	65	60	85	50	48	74	48	49	72	-1.8	0.7	-2.4
308100	Upgrade	65	60	85	48	47	74	48	49	72	-0.4	2.0	-2.8
308104	Upgrade	65	60	85	44	44	65	44	45	69	0.3	1.4	4.6

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
308105	Upgrade	65	60	85	52	50	78	49	50	73	-3.2	-0.6	-5.1
308106	Upgrade	65	60	85	46	45	70	48	49	71	1.9	4.0	1.0
308110	Upgrade	65	60	85	51	49	78	50	51	74	-0.9	1.7	-4.2
308111	Upgrade	65	60	85	44	43	69	48	49	71	3.6	5.3	2.3
308113	Upgrade	65	60	85	48	46	73	48	49	72	0.4	2.7	-1.6
308115	Upgrade	65	60	85	50	49	77	49	50	72	-1.4	1.1	-5.2
308118	Upgrade	65	60	85	37	37	62	42	43	67	5.0	5.6	4.5
308119	Upgrade	65	60	85	55	55	80	59	60	84	4.7	5.5	4.0
308123	Upgrade	65	60	85	55	54	78	39	40	64	-15.2	-13.8	-14.2
308124	Upgrade	65	60	85	52	53	78	59	60	83	6.4	7.1	5.4
308126	Upgrade	65	60	85	54	54	79	58	59	83	4.7	5.4	3.6
308127	Upgrade	65	60	85	59	57	86	40	41	64	-18.5	-15.8	-21.5
308128	Upgrade	65	60	85	50	49	74	54	55	79	4.4	6.0	4.9
308129	Upgrade	65	60	85	51	52	76	56	57	80	4.7	5.4	3.9
308130	Upgrade	65	60	85	52	52	77	56	58	81	4.0	5.7	3.8
308131	Upgrade	65	60	85	54	55	79	59	60	83	4.7	5.4	4.4
308133	Upgrade	65	60	85	36	36	61	41	42	66	5.1	5.7	4.4
308137	Upgrade	65	60	85	48	46	73	48	49	72	0.7	3.0	-1.3
308140	Upgrade	65	60	85	53	54	78	58	59	82	4.6	5.4	4.3
308143	Upgrade	65	60	85	49	48	74	49	50	73	-0.1	2.3	-1.6
308144	Upgrade	65	60	85	52	50	78	48	49	73	-3.2	-0.5	-5.2
308145	Upgrade	65	60	85	46	46	70	49	50	71	2.5	4.4	1.3
308148	Upgrade	65	60	85	46	45	70	49	50	73	2.6	4.4	3.6
308150	Upgrade	65	60	85	44	43	70	49	50	72	4.6	6.1	2.6
308151	Upgrade	65	60	85	33	33	57	38	39	63	4.7	5.4	5.2
308153	Upgrade	65	60	85	54	54	79	58	59	83	4.7	5.4	3.7
308155	Upgrade	65	60	85	49	47	74	48	49	72	-0.6	1.9	-2.0
308157	Upgrade	65	60	85	58	57	83	40	41	64	-18.5	-16.4	-18.9
308160	Upgrade	65	60	85	35	36	60	41	42	66	5.3	6.0	5.3
308161	Upgrade	65	60	85	52	51	77	56	57	81	4.4	6.0	3.5
308162	Upgrade	65	60	85	47	46	73	48	49	71	0.9	3.1	-1.6
308163	Upgrade	65	60	85	47	46	71	49	50	72	2.4	4.4	1.3
308164	Upgrade	65	60	85	35	35	59	41	42	66	6.6	7.2	7.2
308165	Upgrade	65	60	85	50	48	77	50	51	74	0.2	2.7	-2.7
308166	Upgrade	65	60	85	57	56	84	40	41	65	-17.2	-14.7	-18.8
308168	Upgrade	65	60	85	39	39	61	43	44	68	4.7	5.4	6.3
308171	Upgrade	65	60	85	51	49	77	39	40	64	-11.6	-9.3	-13.8
308175	Upgrade	65	60	85	47	46	72	49	50	72	1.3	3.5	-0.5
308177	Upgrade	65	60	85	0	0	0	39	40	63	38.5	39.6	63.4
308178	Upgrade	65	60	85	45	45	68	50	51	74	4.4	5.8	5.9
308179	Upgrade	65	60	85	50	49	76	53	54	77	2.8	4.8	1.2
308181	Upgrade	65	60	85	47	46	74	48	49	71	0.6	2.9	-2.1
308182	Upgrade	65	60	85	52	52	77	57	58	81	4.7	5.4	4.0
308184	Upgrade	65	60	85	47	46	71	49	50	72	2.0	4.0	1.1
308186	Upgrade	65	60	85	46	47	68	52	53	76	5.5	6.3	7.9
308189	Upgrade	65	60	85	57	56	83	41	42	65	-16.0	-13.5	-17.9
308190	Upgrade	65	60	85	55	55	80	59	60	83	4.6	5.3	3.7
308191	Upgrade	65	60	85	51	50	77	49	50	72	-2.6	0.1	-5.0
308192	Upgrade	65	60	85	46	45	69	49	50	72	2.4	4.4	2.5
308193	Upgrade	65	60	85	47	46	71	49	50	72	1.7	3.7	0.5
308194	Upgrade	65	60	85	52	51	78	43	44	67	-8.9	-6.8	-10.1



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax
308197	Upgrade	65	60	85	46	45	70	48	49	72	2.4	4.4	2.6
308198	Upgrade	65	60	85	45	44	69	47	48	70	1.7	3.9	0.6
308200	Upgrade	65	60	85	47	46	71	49	51	72	2.1	4.2	0.7
308203	Upgrade	65	60	85	48	47	75	51	52	75	2.5	4.5	0.5
308205	Upgrade	65	60	85	48	47	72	49	50	72	1.4	3.5	-0.2
308210	Upgrade	65	60	85	50	49	77	49	50	72	-1.5	1.1	-5.1
308212	Upgrade	65	60	85	49	48	71	46	47	71	-2.9	-1.3	-0.6
308213	Upgrade	65	60	85	48	46	71	49	50	72	1.4	3.6	0.2
308218	Upgrade	65	60	85	48	47	73	51	52	75	2.9	4.9	1.9
308221	Upgrade	65	60	85	53	53	76	58	58	80	4.4	5.8	4.4
308223	Upgrade	65	60	85	49	48	74	49	50	73	-0.1	2.3	-1.5
308226	Upgrade	65	60	85	50	48	74	50	51	73	0.2	2.6	-0.2
308228	Upgrade	65	60	85	50	49	76	53	54	78	2.9	4.9	1.3
308231	Upgrade	65	60	85	61	60	88	39	40	64	-22.0	-19.7	-24.2
308234	Upgrade	65	60	85	57	55	84	39	40	64	-17.5	-15.1	-19.7
308235	Upgrade	65	60	85	45	44	69	47	48	70	1.8	3.9	1.5
308236	Upgrade	65	60	85	45	44	69	46	47	69	1.3	3.4	-0.3
308237	Upgrade	65	60	85	59	58	86	42	43	66	-17.4	-14.8	-19.6
308240	Upgrade	65	60	85	48	47	72	49	50	72	1.2	3.4	0.4
308243	Upgrade	65	60	85	48	47	72	49	50	73	1.3	3.5	0.7
308244	Upgrade	65	60	85	46	45	71	47	48	70	0.5	2.8	-1.3
308245	Upgrade	65	60	85	48	47	72	50	51	73	1.5	3.6	0.7
308247	Upgrade	65	60	85	47	46	71	47	48	70	0.5	2.7	-0.9
308248	Upgrade	65	60	85	49	47	74	49	50	73	0.5	2.8	-0.9
308249	Upgrade	65	60	85	53	51	79	39	40	64	-13.3	-11.0	-14.7
308252	Upgrade	65	60	85	55	55	80	60	61	84	4.6	5.3	3.7
308255	Upgrade	65	60	85	48	47	73	50	51	73	1.7	3.9	0.0
308256	Upgrade	65	60	85	50	48	77	49	50	72	-0.9	1.6	-4.4
308263	Upgrade	65	60	85	57	56	83	40	41	65	-16.8	-14.6	-18.7
308267	Upgrade	65	60	85	50	49	76	53	54	77	2.9	4.9	1.4
308268	Upgrade	65	60	85	48	47	73	49	50	72	0.6	2.9	-0.5
308269	Upgrade	65	60	85	48	47	73	48	49	71	-0.2	2.2	-1.7
308270	Upgrade	65	60	85	48	47	73	49	50	73	1.3	3.5	-0.3
308275	Upgrade	65	60	85	56	56	81	62	63	87	6.8	7.4	5.8
308278	Upgrade	65	60	85	48	47	73	49	50	72	0.5	2.8	-0.4
308279	Upgrade	65	60	85	48	46	73	48	49	71	0.8	3.2	-1.6
308284	Upgrade	65	60	85	52	51	78	49	50	73	-3.2	-0.6	-5.1
308289	Upgrade	65	60	85	55	55	81	62	63	87	7.0	7.6	5.3
308290	Upgrade	65	60	85	43	43	67	46	47	70	2.6	4.5	2.9
308291	Upgrade	65	60	85	42	41	67	45	46	68	3.2	5.1	0.9
308292	Upgrade	65	60	85	45	44	68	48	49	72	2.8	4.7	3.8
308296	Upgrade	65	60	85	45	44	69	48	49	72	2.3	4.2	3.0
308299	Upgrade	65	60	85	55	54	80	39	40	64	-15.6	-13.2	-16.0
308301	Upgrade	65	60	85	49	47	74	47	48	71	-1.4	1.1	-3.1
308302	Upgrade	65	60	85	48	46	73	47	48	71	-0.5	1.9	-2.7
308303	Upgrade	65	60	85	63	61	89	41	42	65	-22.0	-19.3	-23.8
308305	New	60	55	80	-	-	-	57	57	79	-	-	-
308306	Upgrade	65	60	85	47	45	71	46	47	70	-0.4	2.0	-1.2
308310	Upgrade	65	60	85	46	45	70	48	49	70	2.0	4.0	0.6
308312	Upgrade	65	60	85	49	48	75	50	51	73	0.3	2.5	-2.2
308316	Upgrade	65	60	85	48	47	72	52	53	76	3.1	5.1	3.6

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA				Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	
308318	Upgrade	65	60	85	85	55	56	80	60	61	84	4.6	5.2	3.9
308319	Upgrade	65	60	85	53	52	80	40	41	65	-12.9	-10.2	-15.0	
308321	Upgrade	65	60	85	47	46	71	48	49	70	0.6	2.8	-1.0	
308323	Upgrade	65	60	85	46	45	70	48	49	70	2.2	4.2	0.8	
308325	Upgrade	65	60	85	65	63	92	40	41	64	-24.5	-22.0	-27.2	
308329	Upgrade	65	60	85	50	48	75	50	51	74	0.2	2.6	-1.9	
308332	Upgrade	65	60	85	47	46	72	50	51	73	2.8	4.8	1.0	
308333	Upgrade	65	60	85	49	48	73	50	51	74	1.2	3.4	0.5	
308334	Upgrade	65	60	85	55	54	80	41	42	65	-14.5	-12.2	-14.8	
308335	Upgrade	65	60	85	48	46	74	47	48	70	-1.1	1.5	-3.5	
308338	Upgrade	65	60	85	45	44	70	47	48	70	2.2	4.2	-0.4	
308340	Upgrade	65	60	85	48	47	74	51	52	75	2.7	4.6	1.4	
308341	Upgrade	65	60	85	46	44	71	47	48	71	1.5	3.7	-0.4	
308343	Upgrade	65	60	85	47	46	72	50	51	74	3.0	4.9	1.8	
308347	Upgrade	65	60	85	49	48	74	49	50	72	0.0	2.4	-1.9	
308351	Upgrade	65	60	85	46	45	70	48	49	71	1.9	4.0	1.3	
308353	Upgrade	65	60	85	53	52	79	39	40	64	-14.0	-11.7	-15.0	
308354	Upgrade	65	60	85	46	45	71	47	48	70	0.4	2.7	-0.9	
308355	Upgrade	65	60	85	60	58	86	41	42	66	-18.4	-16.1	-20.1	
308359	Upgrade	65	60	85	48	46	72	49	50	73	1.3	3.6	0.4	
308360	Upgrade	65	60	85	63	63	87	35	36	59	-27.4	-26.3	-28.9	
308364	Upgrade	65	60	85	45	44	68	47	48	70	2.1	4.2	1.8	
308365	Upgrade	65	60	85	47	46	73	47	48	70	0.2	2.5	-3.0	
308366	Upgrade	65	60	85	45	44	71	47	48	70	2.3	4.3	-0.2	
308369	Upgrade	65	60	85	49	48	74	52	53	77	3.2	5.2	2.9	
308370	Upgrade	65	60	85	45	44	65	49	50	73	4.6	6.0	8.2	
308372	Upgrade	65	60	85	46	46	68	51	52	76	5.7	6.7	8.5	
308373	Upgrade	65	60	85	50	49	77	48	49	71	-2.5	0.2	-5.5	
308374	Upgrade	65	60	85	59	58	85	42	43	66	-17.3	-14.8	-18.8	
308375	Upgrade	65	60	85	47	46	72	48	49	71	1.3	3.5	-0.6	
308376	Upgrade	65	60	85	44	43	68	47	48	70	3.3	5.1	2.4	
308377	Upgrade	65	60	85	45	44	66	49	50	73	4.4	5.7	6.7	
308378	Upgrade	65	60	85	63	63	88	36	37	60	-27.6	-26.5	-28.4	
308383	Upgrade	65	60	85	53	51	79	42	43	67	-11.0	-8.4	-12.7	
308384	New	60	55	80	-	-	-	64	65	89	-	-	-	
308386	Upgrade	65	60	85	42	42	64	39	40	64	-3.3	-2.1	0.0	
308389	Upgrade	65	60	85	47	46	71	48	49	71	1.0	3.3	-0.3	
308390	Upgrade	65	60	85	46	45	71	48	49	71	2.7	4.7	0.3	
308391	Upgrade	65	60	85	56	57	82	61	62	85	4.5	5.2	3.5	
308392	New	60	55	80	-	-	-	51	52	74	-	-	-	
308393	Upgrade	65	60	85	44	43	66	47	48	70	3.2	5.0	3.2	
308394	Upgrade	65	60	85	48	47	73	50	51	74	1.9	4.1	0.6	
308395	Upgrade	65	60	85	47	45	71	48	49	71	1.6	3.8	-0.1	
308398	Upgrade	65	60	85	44	44	65	49	50	72	4.5	5.9	6.7	
308401	Upgrade	65	60	85	48	47	73	49	51	73	1.2	3.5	0.0	
308403	Upgrade	65	60	85	45	45	68	51	52	75	5.5	6.2	7.1	
308404	Upgrade	65	60	85	47	46	72	48	49	71	0.9	3.1	-0.4	
308408	Upgrade	65	60	85	47	46	72	48	49	71	0.6	2.9	-0.9	
308410	Upgrade	65	60	85	57	57	81	36	37	59	-21.2	-19.8	-22.1	
308411	Upgrade	65	60	85	49	47	73	50	51	74	1.8	4.0	1.2	
308413	Upgrade	65	60	85	44	43	67	47	48	70	3.6	5.4	2.8	

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
308414	Upgrade	65	60	85	49	47	74	47	48	71	-1.4	1.1	-3.1
308415	Upgrade	65	60	85	54	53	75	59	60	83	5.4	6.6	8.0
308416	Upgrade	65	60	85	58	57	84	40	41	64	-18.1	-16.0	-19.8
308417	Upgrade	65	60	85	44	45	67	50	51	73	5.1	5.8	6.2
308418	Upgrade	65	60	85	44	43	67	47	48	70	3.0	4.8	3.2
308422	Upgrade	65	60	85	44	43	68	47	48	70	3.1	4.9	1.9
308424	Upgrade	65	60	85	55	53	81	44	45	69	-10.9	-8.4	-12.5
308425	Upgrade	65	60	85	42	41	65	45	46	68	2.9	4.6	3.7
308426	Upgrade	65	60	85	46	45	70	48	49	70	1.7	3.8	-0.1
308430	Upgrade	65	60	85	63	63	87	37	38	61	-26.7	-25.3	-26.9
308432	Upgrade	65	60	85	49	48	73	51	52	75	1.9	4.0	1.3
308433	Upgrade	65	60	85	45	44	68	47	48	70	2.2	4.2	1.3
308437	Upgrade	65	60	85	45	44	68	47	48	69	2.7	4.5	1.7
308438	Upgrade	65	60	85	46	45	72	48	49	71	2.2	4.2	-0.9
308439	Upgrade	65	60	85	49	48	73	52	53	76	3.1	5.1	3.4
308441	Upgrade	65	60	85	72	71	100	38	39	63	-33.9	-31.2	-36.8
308442	Upgrade	65	60	85	60	59	86	43	44	67	-17.6	-15.0	-19.1
308443	Upgrade	65	60	85	48	47	72	51	52	75	3.2	5.1	3.1
308444	Upgrade	65	60	85	47	45	71	48	49	71	1.4	3.5	0.2
308446	Upgrade	65	60	85	46	45	71	47	48	71	1.2	3.4	-0.5
308448	Upgrade	65	60	85	46	45	70	48	49	71	2.6	4.5	1.3
308449	Upgrade	65	60	85	57	56	81	35	37	59	-21.2	-19.8	-21.6
308452	Upgrade	65	60	85	45	44	69	47	48	70	1.7	3.9	1.1
308455	Upgrade	65	60	85	72	70	99	39	40	63	-32.7	-30.0	-35.3
308460	Upgrade	65	60	85	44	43	68	46	47	70	2.2	4.3	2.4
308461	Upgrade	65	60	85	43	42	68	46	47	69	3.1	5.0	1.6
308462	Upgrade	65	60	85	45	44	68	48	49	70	2.4	4.4	1.7
308463	Upgrade	65	60	85	47	47	69	52	53	77	5.5	6.5	8.4
308465	Upgrade	65	60	85	64	63	87	36	37	60	-27.5	-25.9	-27.4
308466	Upgrade	65	60	85	46	45	71	48	49	72	2.7	4.7	1.3
308467	Upgrade	65	60	85	60	58	86	45	46	69	-15.0	-12.2	-17.0
308472	Upgrade	65	60	85	64	63	90	41	42	66	-23.4	-21.1	-24.5
308474	Upgrade	65	60	85	45	45	69	49	50	74	4.5	5.2	5.2
308476	Upgrade	65	60	85	46	44	69	47	48	70	1.7	3.9	0.9
308477	Upgrade	65	60	85	47	45	74	46	47	70	-0.5	2.0	-3.5
308481	Upgrade	65	60	85	43	42	67	45	46	68	2.3	4.3	1.1
308483	Upgrade	65	60	85	60	59	85	42	43	67	-18.2	-15.8	-18.5
308484	Upgrade	65	60	85	63	61	89	43	44	67	-20.2	-17.5	-21.9
308485	Upgrade	65	60	85	52	51	76	54	55	79	2.7	4.6	2.3
308488	Upgrade	65	60	85	51	50	75	53	54	77	2.5	4.4	2.0
308489	Upgrade	65	60	85	44	43	69	46	47	69	1.3	3.4	-0.1
308490	New	60	55	80	-	-	-	55	56	80	-	-	-
308491	Upgrade	65	60	85	57	57	81	35	36	59	-21.8	-20.5	-22.4
308492	Upgrade	65	60	85	49	49	73	53	54	77	3.5	5.3	4.7
308493	Upgrade	65	60	85	71	69	98	40	41	65	-30.6	-28.0	-32.8
308494	Upgrade	65	60	85	46	46	72	50	51	74	3.6	5.4	1.9
308496	Upgrade	65	60	85	44	43	65	48	49	73	4.9	6.0	8.0
308497	Upgrade	65	60	85	59	58	85	37	38	61	-22.4	-20.3	-24.1
308498	Upgrade	65	60	85	46	45	71	48	49	72	2.1	4.2	0.2
308501	Upgrade	65	60	85	50	49	75	53	54	77	3.3	5.0	2.6
308502	Upgrade	65	60	85	46	45	70	47	48	70	1.5	3.7	-0.1



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
308504	Upgrade	65	60	85	45	44	69	47	48	71	2.0	4.1	1.3
308508	Upgrade	65	60	85	45	44	71	46	47	69	0.9	3.2	-2.2
308509	Upgrade	65	60	85	47	46	72	48	49	71	0.3	2.6	-1.0
308510	Upgrade	65	60	85	42	41	63	46	47	70	4.7	6.1	6.6
308511	New	60	55	80	-	-	-	58	58	79	-	-	-
308513	Upgrade	65	60	85	46	45	71	48	49	72	2.4	4.4	0.4
308515	Upgrade	65	60	85	64	63	90	40	41	64	-24.5	-22.2	-26.1
308516	Upgrade	65	60	85	42	42	66	46	47	69	4.0	5.7	2.7
308520	Upgrade	65	60	85	42	42	65	46	47	68	3.3	5.1	3.1
308521	Upgrade	65	60	85	43	42	68	46	47	69	2.8	4.7	1.0
308525	Upgrade	65	60	85	56	54	82	41	42	65	-14.9	-12.4	-17.2
308526	Upgrade	65	60	85	46	46	69	50	52	75	4.5	5.3	5.8
308527	Upgrade	65	60	85	51	51	77	47	48	71	-4.6	-2.7	-5.6
308528	Upgrade	65	60	85	42	42	65	46	47	69	4.1	5.7	4.5
308530	Upgrade	65	60	85	47	45	73	47	48	70	0.1	2.5	-3.1
308531	Upgrade	65	60	85	43	42	68	45	46	68	2.5	4.5	0.3
308537	Upgrade	65	60	85	47	46	72	51	52	75	3.7	5.5	2.8
308538	Upgrade	65	60	85	56	55	80	37	38	61	-18.8	-17.0	-19.1
308540	Upgrade	65	60	85	49	48	71	54	55	78	5.1	6.4	6.9
308543	Upgrade	65	60	85	67	66	93	36	38	61	-30.3	-28.1	-32.2
308545	Upgrade	65	60	85	49	49	73	58	59	82	9.3	10.0	9.1
308546	Upgrade	65	60	85	43	42	67	46	47	69	2.2	4.2	1.8
308548	Upgrade	65	60	85	45	44	71	48	49	71	2.2	4.3	-0.2
308549	Upgrade	65	60	85	45	44	68	47	48	70	1.9	4.1	1.1
308550	Upgrade	65	60	85	63	62	87	42	43	67	-20.9	-19.0	-20.0
308554	Upgrade	65	60	85	56	55	81	36	37	59	-20.3	-18.3	-21.5
308556	Upgrade	65	60	85	69	68	96	41	42	66	-27.8	-25.5	-30.2
308558	Upgrade	65	60	85	43	42	68	46	47	68	2.4	4.5	0.7
308559	Upgrade	65	60	85	42	41	67	45	47	68	3.4	5.3	1.4
308561	Upgrade	65	60	85	49	48	75	48	49	71	-1.5	1.1	-3.1
308564	Upgrade	65	60	85	66	64	93	40	41	65	-25.7	-23.0	-28.2
308566	Upgrade	65	60	85	45	44	69	46	47	69	1.1	3.3	-0.7
308567	Upgrade	65	60	85	46	45	71	47	48	70	1.2	3.6	-0.8
308568	Upgrade	65	60	85	43	42	67	46	47	68	2.3	4.4	1.8
308569	Upgrade	65	60	85	47	46	73	48	49	72	1.1	3.3	-1.8
308572	Upgrade	65	60	85	44	44	65	44	45	69	0.2	1.1	3.9
308574	Upgrade	65	60	85	66	64	92	37	38	61	-28.9	-26.5	-31.5
308578	Upgrade	65	60	85	45	43	70	46	47	69	1.1	3.3	-1.1
308584	Upgrade	65	60	85	47	46	74	47	48	70	0.2	2.6	-3.5
308585	Upgrade	65	60	85	49	49	71	45	46	70	-4.2	-3.3	-1.7
308586	Upgrade	65	60	85	47	46	72	49	50	73	1.4	3.7	0.6
308587	Upgrade	65	60	85	45	43	68	46	47	69	1.6	3.7	1.1
308589	Upgrade	65	60	85	59	57	85	41	42	65	-18.1	-15.8	-19.6
308590	Upgrade	65	60	85	46	44	71	47	48	71	1.6	3.8	0.1
308593	Upgrade	65	60	85	53	52	78	35	37	59	-17.5	-15.3	-19.6
308595	Upgrade	65	60	85	53	52	79	44	45	68	-9.2	-7.0	-10.8
308597	Upgrade	65	60	85	44	44	66	44	46	69	0.6	1.6	3.0
308600	Upgrade	65	60	85	46	44	70	46	47	69	0.1	2.5	-1.5
308601	Upgrade	65	60	85	54	53	81	41	42	65	-13.6	-11.3	-15.7
308603	Upgrade	65	60	85	56	55	80	37	38	61	-18.8	-16.7	-19.6
308605	Upgrade	65	60	85	45	44	71	47	48	70	1.1	3.4	-1.3

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA				Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	
308606	Upgrade	65	60	85	64	63	91	37	38	61	-27.6	-24.9	-30.8	
308607	Upgrade	65	60	85	45	44	70	46	47	69	0.6	3.0	-0.5	
308608	Upgrade	65	60	85	50	49	74	42	43	67	-8.2	-6.0	-6.9	
308609	Upgrade	65	60	85	47	46	74	48	49	71	1.2	3.4	-2.2	
308611	Upgrade	65	60	85	57	56	83	45	46	70	-11.9	-9.5	-13.7	
308612	Upgrade	65	60	85	45	44	68	47	48	70	2.1	4.1	1.4	
308613	Upgrade	65	60	85	46	45	73	47	48	70	0.8	3.1	-3.0	
308619	Upgrade	65	60	85	45	44	68	47	48	70	2.5	4.5	2.1	
308620	Upgrade	65	60	85	47	46	71	50	51	74	2.9	4.9	3.1	
308622	Upgrade	65	60	85	44	43	64	44	45	69	0.7	2.0	5.1	
308624	Upgrade	65	60	85	44	44	69	47	48	69	2.7	4.7	0.2	
308625	Upgrade	65	60	85	68	66	94	44	45	68	-23.9	-21.4	-25.8	
308628	Upgrade	65	60	85	53	52	77	35	36	59	-17.6	-15.7	-17.9	
308629	Upgrade	65	60	85	65	63	92	46	47	70	-19.2	-16.6	-21.5	
308632	Upgrade	65	60	85	51	50	73	55	56	79	4.3	5.8	6.3	
308635	Upgrade	65	60	85	46	44	71	46	47	69	0.3	2.6	-1.1	
308638	Upgrade	65	60	85	55	54	80	35	36	59	-19.8	-17.7	-21.7	
308639	Upgrade	65	60	85	63	61	90	45	46	70	-17.3	-14.6	-20.2	
308640	New	60	55	80	-	-	-	58	59	83	-	-	-	
308643	Upgrade	65	60	85	49	49	71	45	46	70	-4.5	-3.5	-1.7	
308644	Upgrade	65	60	85	45	43	70	46	47	70	1.9	4.1	0.1	
308647	Upgrade	65	60	85	44	44	67	47	48	72	2.9	3.8	4.8	
308650	Upgrade	65	60	85	45	45	65	46	47	71	1.0	2.0	5.5	
308654	Upgrade	65	60	85	55	54	81	43	44	68	-11.5	-9.5	-12.8	
308658	Upgrade	65	60	85	45	45	66	46	47	71	0.6	1.5	4.8	
308659	Upgrade	65	60	85	63	62	90	37	38	61	-26.4	-23.8	-29.2	
308663	Upgrade	65	60	85	44	43	67	47	48	70	2.6	4.7	3.1	
308664	Upgrade	65	60	85	48	47	73	50	51	74	2.8	4.6	0.7	
308665	Upgrade	65	60	85	47	46	71	47	48	71	0.1	2.5	-0.3	
308668	Upgrade	65	60	85	54	53	80	44	45	69	-10.3	-8.0	-11.7	
308669	Upgrade	65	60	85	45	45	66	46	47	70	0.7	1.5	4.4	
308670	Upgrade	65	60	85	45	44	70	48	49	71	3.1	4.9	0.9	
308671	Upgrade	65	60	85	56	55	81	36	37	59	-20.2	-18.0	-21.6	
308672	Upgrade	65	60	85	59	59	86	67	68	91	7.9	8.7	5.1	
308676	Upgrade	65	60	85	71	70	98	40	41	64	-30.9	-28.5	-33.6	
308678	Upgrade	65	60	85	45	46	68	48	49	73	2.3	3.2	5.0	
308679	Upgrade	65	60	85	56	56	84	64	65	91	8.0	8.7	7.5	
308680	Upgrade	65	60	85	48	46	73	48	49	71	-0.3	2.2	-2.2	
308684	Upgrade	65	60	85	54	53	79	36	37	59	-18.7	-16.3	-19.6	
308685	Upgrade	65	60	85	44	44	67	49	50	73	5.1	5.8	6.3	
308688	Upgrade	65	60	85	53	52	76	35	36	59	-18.0	-16.2	-17.5	
308689	Upgrade	65	60	85	56	55	82	41	42	65	-15.1	-12.7	-16.7	
308691	Upgrade	65	60	85	46	44	71	47	48	70	1.5	3.7	-1.0	
308696	Upgrade	65	60	85	44	43	67	46	47	69	1.7	3.8	1.3	
308699	Upgrade	65	60	85	48	47	72	50	51	74	2.1	4.2	1.6	
308701	Upgrade	65	60	85	60	59	86	35	36	59	-25.0	-22.6	-27.5	
308702	Upgrade	65	60	85	44	44	66	49	50	73	4.5	5.9	7.5	
308703	Upgrade	65	60	85	44	43	68	47	48	69	2.5	4.5	1.4	
308704	Upgrade	65	60	85	44	43	68	46	47	69	2.1	4.2	0.8	
308705	Upgrade	65	60	85	44	44	68	47	48	70	3.1	4.9	2.6	
308706	Upgrade	65	60	85	47	46	71	51	52	74	3.5	5.2	3.5	

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA			
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmaz	LAeq,15hr	LAeq,9hr	LAmaz	LAeq,15hr	LAeq,9hr	LAmaz	
308711	Upgrade	65	60	85	85	45	44	69	46	48	69	1.8	4.0	-0.1
308714	Upgrade	65	60	85	73	71	100	44	45	69	-28.3	-25.9	-30.5	
308715	Upgrade	65	60	85	45	44	68	48	49	71	3.2	5.0	3.1	
308720	Upgrade	65	60	85	55	54	81	36	37	59	-19.3	-16.9	-21.5	
308723	Upgrade	65	60	85	53	53	76	58	59	82	5.2	6.4	6.0	
308724	Upgrade	65	60	85	43	43	65	48	49	73	5.5	6.5	8.1	
308725	Upgrade	65	60	85	69	67	96	45	46	70	-24.2	-21.6	-26.6	
308730	Upgrade	65	60	85	56	55	82	45	46	69	-11.2	-8.8	-13.2	
308732	Upgrade	65	60	85	48	48	70	54	55	78	5.4	6.6	8.0	
308733	Upgrade	65	60	85	45	44	69	47	48	69	1.6	3.8	-0.2	
308736	Upgrade	65	60	85	65	64	93	46	47	71	-19.2	-16.7	-21.8	
308740	Upgrade	65	60	85	46	45	69	49	50	72	2.9	4.7	2.8	
308743	Upgrade	65	60	85	44	44	67	49	50	73	5.0	5.7	6.3	
308744	Upgrade	65	60	85	43	42	67	46	47	69	2.7	4.6	2.0	
308746	Upgrade	65	60	85	44	44	68	49	50	73	4.9	5.5	5.8	
308747	Upgrade	65	60	85	62	60	88	65	65	88	3.2	4.9	-0.3	
308750	Upgrade	65	60	85	53	52	77	36	37	60	-16.6	-14.9	-17.0	
308752	Upgrade	65	60	85	59	58	85	36	37	60	-23.0	-20.4	-25.3	
308753	Upgrade	65	60	85	42	42	66	46	47	71	4.5	5.2	4.9	
308754	Upgrade	65	60	85	69	67	96	40	41	65	-28.5	-25.9	-31.3	
308755	Upgrade	65	60	85	54	54	78	37	38	61	-17.4	-15.9	-17.4	
308756	Upgrade	65	60	85	45	44	69	47	48	70	2.4	4.4	0.7	
308757	Upgrade	65	60	85	41	40	67	43	44	66	1.9	4.0	-0.8	
308762	Upgrade	65	60	85	42	41	66	43	44	66	0.4	2.9	-0.1	
308765	Upgrade	65	60	85	47	46	70	50	51	74	2.5	4.6	3.1	
308768	Upgrade	65	60	85	55	55	79	61	62	86	6.2	7.2	6.8	
308779	Upgrade	65	60	85	52	51	76	35	36	58	-16.3	-14.1	-18.4	
308781	Upgrade	65	60	85	43	42	67	44	45	67	1.5	3.6	0.0	
308784	Upgrade	65	60	85	45	44	70	46	47	70	1.2	3.5	-0.1	
308785	Upgrade	65	60	85	58	56	84	36	37	59	-22.0	-19.4	-24.8	
308786	Upgrade	65	60	85	42	41	67	44	45	67	2.4	4.5	0.2	
308791	Upgrade	65	60	85	44	43	68	46	47	70	2.2	4.1	1.6	
308792	Upgrade	65	60	85	41	40	64	45	46	68	4.2	5.8	4.2	
308795	Upgrade	65	60	85	45	44	67	48	49	72	2.9	4.7	4.9	
308798	Upgrade	65	60	85	43	42	68	44	45	67	0.8	3.1	-1.2	
308802	Upgrade	65	60	85	55	53	81	36	37	59	-19.4	-16.9	-22.2	
308808	Upgrade	65	60	85	51	50	77	45	46	69	-6.7	-4.4	-8.7	
308809	Upgrade	65	60	85	42	43	67	47	48	72	4.6	5.2	4.8	
308811	Upgrade	65	60	85	50	49	72	54	55	78	4.2	5.7	6.4	
308813	Upgrade	65	60	85	63	61	89	38	39	62	-24.9	-22.4	-26.8	
308814	Upgrade	65	60	85	71	69	98	40	41	64	-30.9	-28.4	-33.9	
308815	Upgrade	65	60	85	55	54	80	35	36	59	-20.1	-17.5	-21.7	
308821	Upgrade	65	60	85	46	44	70	47	49	71	1.9	4.1	1.2	
308825	Upgrade	65	60	85	40	39	65	43	44	66	2.7	4.6	1.6	
308827	Upgrade	65	60	85	44	43	69	44	45	68	0.1	2.5	-1.0	
308828	Upgrade	65	60	85	53	51	78	45	46	69	-7.8	-5.7	-8.6	
308832	Upgrade	65	60	85	42	41	66	43	44	67	1.2	3.4	1.1	
308835	Upgrade	65	60	85	44	43	69	45	46	69	1.0	3.4	-0.2	
308837	Upgrade	65	60	85	42	41	66	45	46	67	3.0	4.8	1.5	
308838	Upgrade	65	60	85	41	41	64	45	46	68	4.1	5.6	3.9	
308841	Upgrade	65	60	85	41	41	62	46	47	71	5.3	6.5	8.8	



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA				Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmaz	LAeq,15hr	LAeq,9hr	LAmaz	LAeq,15hr	LAeq,9hr	LAmaz	
308842	Upgrade	65	60	85	44	43	67	47	48	70	3.1	4.9	3.1	
308844	Upgrade	65	60	85	73	71	100	42	43	66	-31.0	-28.2	-33.9	
308849	Upgrade	65	60	85	49	49	71	54	55	78	4.6	6.0	7.1	
308853	Upgrade	65	60	85	53	52	78	47	48	72	-5.5	-3.5	-6.1	
308854	Upgrade	65	60	85	42	42	66	46	47	68	3.1	4.9	2.4	
308856	New	60	55	80	-	-	-	51	52	76	-	-	-	
308857	Upgrade	65	60	85	61	59	86	36	37	60	-24.7	-22.3	-26.4	
308858	Upgrade	65	60	85	56	55	82	35	36	58	-21.7	-19.2	-24.6	
308859	Upgrade	65	60	85	43	43	68	48	49	73	4.8	5.6	5.0	
308860	Upgrade	65	60	85	42	43	65	47	48	72	5.1	5.8	6.3	
308866	Upgrade	65	60	85	45	45	68	49	50	73	3.6	5.3	5.2	
308867	Upgrade	65	60	85	43	42	66	45	46	69	2.1	4.2	2.7	
308871	Upgrade	65	60	85	53	52	77	36	37	59	-17.4	-15.4	-18.7	
308872	Upgrade	65	60	85	52	51	77	36	37	60	-16.1	-13.9	-16.6	
308873	Upgrade	65	60	85	54	53	79	37	38	59	-17.2	-15.1	-20.6	
308874	Upgrade	65	60	85	44	44	65	49	50	73	5.2	6.3	7.8	
308877	Upgrade	65	60	85	41	41	65	46	47	70	4.7	5.4	5.2	
308879	Upgrade	65	60	85	45	45	67	50	51	75	5.2	6.2	8.0	
308881	Upgrade	65	60	85	45	45	66	45	46	69	0.3	1.4	3.1	
308883	Upgrade	65	60	85	42	42	65	46	47	71	4.9	5.6	5.6	
308885	Upgrade	65	60	85	51	50	76	44	45	69	-7.1	-5.0	-7.7	
308889	Upgrade	65	60	85	55	53	79	37	38	60	-18.2	-15.9	-19.3	
308892	Upgrade	65	60	85	42	42	64	46	47	69	3.9	5.6	4.1	
308894	Upgrade	65	60	85	56	54	81	37	38	60	-18.8	-16.4	-21.5	
308895	Upgrade	65	60	85	66	64	92	37	38	61	-28.5	-25.9	-31.5	
308896	Upgrade	65	60	85	45	44	68	48	49	73	3.1	4.9	4.3	
308899	Upgrade	65	60	85	54	53	79	45	46	70	-9.0	-7.0	-9.7	
308902	Upgrade	65	60	85	42	41	66	45	46	69	2.8	4.7	2.8	
308903	Upgrade	65	60	85	43	43	65	48	49	73	5.2	6.2	8.2	
308904	Upgrade	65	60	85	45	44	68	47	48	71	2.4	4.4	3.3	
308906	Upgrade	65	60	85	55	55	80	35	36	58	-20.2	-18.3	-21.8	
308911	Upgrade	65	60	85	62	60	89	37	38	60	-25.2	-22.4	-28.8	
308912	Upgrade	65	60	85	65	63	92	38	39	61	-27.0	-24.5	-30.5	
308913	New	60	55	80	-	-	-	55	56	80	-	-	-	
308917	Upgrade	65	60	85	67	65	94	40	41	64	-27.1	-24.5	-29.9	
308919	Upgrade	65	60	85	55	54	81	35	36	58	-20.3	-18.1	-23.0	
308921	Upgrade	65	60	85	68	67	95	40	41	64	-27.8	-25.4	-30.7	
308924	Upgrade	65	60	85	57	56	83	37	38	60	-20.9	-18.5	-23.1	
308925	Upgrade	65	60	85	54	52	78	35	36	58	-18.4	-15.9	-20.2	
308927	Upgrade	65	60	85	45	45	67	46	47	69	1.0	2.0	2.5	
308928	Upgrade	65	60	85	43	43	63	48	49	72	5.4	6.5	8.5	
308929	Upgrade	65	60	85	67	66	94	43	44	67	-24.7	-22.4	-26.8	
308933	Upgrade	65	60	85	59	58	87	38	39	61	-21.7	-19.0	-25.8	
308935	Upgrade	65	60	85	44	43	68	46	47	69	2.2	4.1	1.3	
308936	Upgrade	65	60	85	46	46	69	48	49	73	1.9	2.9	4.5	
308940	Upgrade	65	60	85	44	44	67	49	50	73	4.2	5.9	5.8	
308942	Upgrade	65	60	85	44	44	68	48	49	72	3.5	5.3	4.1	
308943	Upgrade	65	60	85	61	59	88	42	43	67	-18.8	-16.3	-21.2	
308944	Upgrade	65	60	85	47	47	67	48	49	72	1.1	2.0	5.1	
308945	Upgrade	65	60	85	58	56	83	37	38	60	-20.8	-18.2	-23.3	
308947	Upgrade	65	60	85	53	52	79	36	37	60	-17.0	-14.9	-19.2	

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA				Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	
308948	Upgrade	65	60	85	85	54	53	79	35	36	58	-19.2	-16.9	-21.0
308949	Upgrade	65	60	85	44	44	65	49	50	74	5.0	6.1	8.4	
308950	Upgrade	65	60	85	66	65	91	45	46	70	-20.7	-18.9	-21.1	
308951	Upgrade	65	60	85	43	43	64	48	49	72	4.9	6.1	8.2	
308962	Upgrade	65	60	85	54	53	79	36	37	60	-18.2	-16.1	-19.0	
308963	Upgrade	65	60	85	58	57	85	37	38	61	-21.4	-18.7	-24.6	
308965	Upgrade	65	60	85	42	42	65	48	49	73	5.9	6.9	8.0	
308980	Upgrade	65	60	85	43	42	64	47	48	69	4.2	5.8	4.8	
308982	Upgrade	65	60	85	59	58	85	41	42	66	-18.0	-15.6	-19.2	
308983	Upgrade	65	60	85	45	44	68	50	51	74	4.8	6.4	5.8	
308988	Upgrade	65	60	85	55	55	80	60	61	85	5.5	6.1	4.9	
308989	Upgrade	65	60	85	53	52	78	36	37	59	-17.3	-15.2	-18.1	
308990	Upgrade	65	60	85	43	43	63	48	49	71	5.3	6.6	8.1	
308991	Upgrade	65	60	85	54	53	80	36	37	59	-18.1	-16.0	-20.8	
308995	Upgrade	65	60	85	44	44	67	46	47	71	2.0	2.9	3.8	
309002	Upgrade	65	60	85	42	41	63	46	47	70	4.1	5.5	7.0	
309008	Upgrade	65	60	85	48	49	73	56	57	80	7.1	7.8	7.0	
309009	Upgrade	65	60	85	44	43	66	48	49	73	4.5	6.1	6.2	
309010	Upgrade	65	60	85	43	43	65	49	50	73	5.6	6.5	7.8	
309011	New	60	55	80	-	-	-	52	53	77	-	-	-	
309014	Upgrade	65	60	85	43	43	64	48	49	73	5.1	6.3	8.7	
309018	Upgrade	65	60	85	40	39	61	44	45	68	4.3	5.7	6.9	
309019	Upgrade	65	60	85	54	53	79	36	37	60	-17.3	-15.5	-19.1	
309021	Upgrade	65	60	85	55	53	79	38	39	61	-17.1	-14.9	-18.1	
309022	Upgrade	65	60	85	60	59	86	42	43	66	-18.2	-15.7	-19.9	
309027	Upgrade	65	60	85	45	45	69	36	37	58	-9.8	-8.7	-11.4	
309028	Upgrade	65	60	85	52	51	76	47	48	72	-4.6	-2.7	-4.5	
309029	Upgrade	65	60	85	55	54	80	38	39	62	-17.7	-15.4	-18.8	
309034	Upgrade	65	60	85	60	59	86	41	42	65	-19.3	-17.1	-21.2	
309036	Upgrade	65	60	85	42	42	62	47	48	70	4.9	6.3	7.4	
309037	Upgrade	65	60	85	62	62	88	43	45	68	-18.7	-17.4	-19.6	
309039	Upgrade	65	60	85	53	52	76	38	39	61	-15.6	-13.7	-15.0	
309042	Upgrade	65	60	85	51	50	74	36	37	60	-14.6	-12.9	-14.0	
309043	Upgrade	65	60	85	60	59	86	41	42	65	-19.4	-17.4	-20.7	
309044	Upgrade	65	60	85	56	55	82	47	48	72	-8.9	-6.7	-10.1	
309047	Upgrade	65	60	85	64	64	88	46	47	71	-17.6	-16.4	-17.2	
309049	Upgrade	65	60	85	52	51	76	37	38	61	-15.0	-12.9	-15.5	
309050	Upgrade	65	60	85	58	57	84	42	43	66	-16.7	-14.2	-17.8	
309051	Upgrade	65	60	85	46	46	69	48	49	73	2.1	2.9	4.1	
309056	Upgrade	65	60	85	44	45	67	47	48	72	2.2	3.0	4.3	
309057	Upgrade	65	60	85	51	50	75	45	46	70	-6.2	-4.4	-5.6	
309058	Upgrade	65	60	85	55	54	81	38	39	61	-17.6	-15.3	-19.8	
309060	Upgrade	65	60	85	53	53	77	59	60	83	5.5	6.3	5.3	
309062	Upgrade	65	60	85	55	55	80	46	47	70	-9.6	-8.3	-10.1	
309064	Upgrade	65	60	85	44	44	67	49	50	73	4.5	6.1	6.1	
309065	New	60	55	80	-	-	-	53	54	77	-	-	-	
309069	Upgrade	65	60	85	56	54	80	37	38	60	-18.8	-16.4	-19.9	
309072	Upgrade	65	60	85	55	54	79	39	40	64	-15.3	-13.4	-15.3	
309073	Upgrade	65	60	85	54	53	78	37	38	61	-16.8	-14.5	-17.4	
309074	Upgrade	65	60	85	57	55	81	42	43	66	-14.6	-12.3	-15.0	
309079	Upgrade	65	60	85	53	52	79	40	41	64	-13.0	-11.0	-14.4	

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
309080	Upgrade	65	60	85	60	61	88	69	70	93	8.4	9.2	5.8
309082	Upgrade	65	60	85	61	60	84	46	47	70	-15.0	-13.6	-14.1
309083	Upgrade	65	60	85	57	57	81	47	48	71	-10.6	-8.8	-9.5
309084	Upgrade	65	60	85	43	44	68	53	54	77	9.3	9.9	9.4
309086	Upgrade	65	60	85	54	52	79	39	40	63	-14.7	-12.5	-15.9
309087	Upgrade	65	60	85	58	56	82	44	45	68	-13.8	-11.2	-14.0
309091	Upgrade	65	60	85	53	52	78	47	48	72	-5.7	-3.7	-6.1
309092	Upgrade	65	60	85	47	47	71	55	56	79	7.9	8.6	8.3
309093	Upgrade	65	60	85	54	53	80	40	41	65	-13.5	-11.2	-15.8
309094	Upgrade	65	60	85	41	41	63	47	48	71	5.9	6.7	8.1
309096	Upgrade	65	60	85	54	52	80	41	42	65	-12.9	-10.4	-15.2
309100	Upgrade	65	60	85	62	62	87	48	49	72	-14.0	-13.0	-15.2
309101	Upgrade	65	60	85	50	50	74	42	43	66	-8.2	-6.6	-8.4
309105	Upgrade	65	60	85	61	61	88	69	70	93	8.0	8.9	5.4
309106	Upgrade	65	60	85	53	52	79	41	42	65	-12.3	-10.1	-14.3
309107	Upgrade	65	60	85	55	54	78	47	48	72	-7.4	-5.5	-6.4
309108	Upgrade	65	60	85	54	53	79	47	48	71	-7.1	-4.9	-7.3
309113	Upgrade	65	60	85	39	39	62	49	50	73	10.0	10.7	11.4
309116	Upgrade	65	60	85	52	51	76	45	46	69	-7.2	-4.9	-7.2
309118	Upgrade	65	60	85	47	47	67	48	49	72	1.0	2.0	5.2
309119	Upgrade	65	60	85	51	50	74	41	42	66	-9.2	-7.6	-8.2
309120	Upgrade	65	60	85	55	55	79	46	47	70	-9.0	-7.3	-8.4
309121	Upgrade	65	60	85	46	46	68	46	48	71	0.8	2.0	3.3
309124	Upgrade	65	60	85	53	52	77	45	46	70	-8.0	-6.0	-7.3
309125	Upgrade	65	60	85	44	44	68	47	48	71	2.8	3.6	3.6
309126	New	60	55	80	-	-	-	55	56	79	-	-	-
309129	New	60	55	80	-	-	-	63	64	85	-	-	-
309130	Upgrade	65	60	85	45	45	69	47	48	71	1.7	2.5	2.4
309132	Upgrade	65	60	85	52	51	76	41	42	66	-10.3	-8.5	-10.4
309133	New	60	55	80	-	-	-	60	61	84	-	-	-
309134	Upgrade	65	60	85	40	41	65	50	51	75	9.9	10.5	9.9
309137	Upgrade	65	60	85	55	54	81	46	47	70	-8.8	-6.6	-10.4
309144	Upgrade	65	60	85	57	57	81	48	49	72	-9.1	-8.0	-8.9
309146	New	60	55	80	-	-	-	62	63	86	-	-	-
309148	New	60	55	80	-	-	-	43	44	68	-	-	-
309150	Upgrade	65	60	85	54	53	78	46	47	71	-7.6	-5.5	-7.0
309151	Upgrade	65	60	85	53	52	79	44	45	69	-9.1	-7.0	-10.4
309152	Upgrade	65	60	85	46	46	68	48	49	72	1.8	2.6	4.6
309155	Upgrade	65	60	85	52	52	78	43	44	68	-9.1	-7.3	-10.0
309161	New	60	55	80	-	-	-	59	60	83	-	-	-
309169	Upgrade	65	60	85	53	52	77	48	49	73	-4.9	-2.9	-4.5
309170	Upgrade	65	60	85	54	53	78	48	49	72	-6.2	-4.3	-5.3
309173	Upgrade	65	60	85	53	52	78	50	51	74	-3.5	-1.3	-3.4
309174	Upgrade	65	60	85	53	51	79	47	48	72	-5.9	-3.6	-7.8
309175	New	60	55	80	-	-	-	57	58	81	-	-	-
309176	Upgrade	65	60	85	54	53	78	49	50	73	-4.9	-2.7	-4.9
309185	Upgrade	65	60	85	53	52	77	48	49	73	-4.7	-2.7	-4.0
309186	Upgrade	65	60	85	49	49	73	50	51	75	0.8	2.2	2.0
309187	New	60	55	80	-	-	-	46	47	70	-	-	-
309190	Upgrade	65	60	85	53	52	77	50	51	75	-2.9	-0.9	-1.6
309194	Upgrade	65	60	85	47	47	68	48	49	72	0.9	2.1	4.2



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		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
309202	Upgrade	65	60	85	49	49	71	50	51	74	0.6	2.0	3.3
309203	Upgrade	65	60	85	58	58	82	48	50	73	-9.3	-8.0	-8.9
309205	New	60	55	80	-	-	-	57	58	81	-	-	-
309207	Upgrade	65	60	85	52	51	76	48	49	73	-3.8	-1.7	-3.5
309211	Upgrade	65	60	85	65	65	92	48	49	73	-17.0	-16.3	-19.4
309212	Upgrade	65	60	85	43	44	67	45	46	70	2.0	2.9	3.0
309213	New	60	55	80	-	-	-	47	48	72	-	-	-
309217	Upgrade	65	60	85	48	48	69	50	51	74	2.0	2.8	5.3
309219	Upgrade	65	60	85	39	39	64	50	51	74	11.3	11.9	9.8
309222	New	60	55	80	-	-	-	51	52	75	-	-	-
309225	Upgrade	65	60	85	50	49	73	48	49	72	-2.0	-0.1	-1.0
309228	Upgrade	65	60	85	51	50	74	48	49	73	-2.1	-0.3	-1.4
309230	Upgrade	65	60	85	51	50	75	48	49	73	-3.3	-1.0	-2.4
309233	New	60	55	80	-	-	-	47	48	72	-	-	-
309234	Upgrade	65	60	85	45	45	68	47	48	71	1.4	2.3	2.4
309236	Upgrade	65	60	85	49	48	73	48	49	72	-1.6	0.4	-0.8
309237	Upgrade	65	60	85	49	49	74	49	50	74	0.1	1.8	0.5
309238	New	60	55	80	-	-	-	47	48	71	-	-	-
309243	Upgrade	65	60	85	39	39	63	45	46	70	5.8	6.5	7.1
309245	Upgrade	65	60	85	49	48	71	48	49	72	-1.0	0.7	0.7
309246	New	60	55	80	-	-	-	47	48	72	-	-	-
309247	New	60	55	80	-	-	-	42	43	64	-	-	-
309250	Upgrade	65	60	85	59	59	84	48	49	72	-11.5	-10.5	-11.9
309255	New	60	55	80	-	-	-	47	48	71	-	-	-
309256	Upgrade	65	60	85	55	54	77	48	49	73	-7.1	-5.4	-4.9
309259	New	60	55	80	-	-	-	47	48	72	-	-	-
309262	Upgrade	65	60	85	50	49	74	49	50	74	-0.1	1.7	0.4
309263	Upgrade	65	60	85	46	46	69	48	49	73	1.8	2.7	3.9
309265	New	60	55	80	-	-	-	48	49	72	-	-	-
309267	Upgrade	65	60	85	56	56	80	50	51	75	-5.4	-4.3	-5.6
309271	Upgrade	65	60	85	66	67	94	50	51	74	-16.6	-15.9	-19.9
309273	New	60	55	80	-	-	-	47	48	72	-	-	-
309275	Upgrade	65	60	85	55	54	79	50	51	74	-5.4	-3.8	-5.0
309276	Upgrade	65	60	85	51	51	73	50	51	75	-0.8	0.8	1.4
309277	New	60	55	80	-	-	-	47	48	71	-	-	-
309279	Upgrade	65	60	85	37	38	61	42	43	67	5.0	5.7	5.9
309281	New	60	55	80	-	-	-	43	44	68	-	-	-
309283	New	60	55	80	-	-	-	45	46	70	-	-	-
309290	Upgrade	65	60	85	55	55	79	51	52	76	-3.7	-2.4	-2.3
309292	Upgrade	65	60	85	51	50	75	48	49	72	-2.7	-1.0	-2.7
309294	Upgrade	65	60	85	43	44	66	46	47	70	2.3	3.1	4.7
309296	Upgrade	65	60	85	60	60	85	51	52	76	-8.9	-8.0	-9.1
309298	Upgrade	65	60	85	52	51	74	51	52	76	-0.5	1.0	1.5
309299	Upgrade	65	60	85	48	48	69	48	49	72	0.5	1.7	3.0
309300	New	60	55	80	-	-	-	46	47	70	-	-	-
309301	Upgrade	65	60	85	51	50	75	49	50	74	-1.8	-0.2	-0.9
309303	Upgrade	65	60	85	49	49	72	48	49	72	-1.1	0.5	0.0
309304	Upgrade	65	60	85	50	50	77	49	50	74	-1.2	0.0	-3.4
309305	Upgrade	65	60	85	47	47	69	49	50	73	1.4	2.3	3.7
309308	New	60	55	80	-	-	-	47	48	72	-	-	-
309315	Upgrade	65	60	85	50	51	75	51	52	76	0.9	1.6	1.1

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		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	
309316	Upgrade	65	60	85	85	50	49	73	50	51	75	0.2	1.7	1.2
309320	New	60	55	80	-	-	-	-	46	47	71	-	-	-
309322	Upgrade	65	60	85	54	54	79	50	51	75	-3.4	-2.5	-4.1	
309324	Upgrade	65	60	85	50	49	72	47	48	71	-3.1	-1.6	-1.4	
309325	Upgrade	65	60	85	38	38	62	42	43	67	4.8	5.5	5.8	
309326	New	60	55	80	-	-	-	-	46	47	71	-	-	-
309329	New	60	55	80	-	-	-	-	47	48	72	-	-	-
309336	New	60	55	80	-	-	-	-	47	48	71	-	-	-
309337	Upgrade	65	60	85	49	48	71	50	51	74	1.1	2.3	3.0	
309338	Upgrade	65	60	85	46	46	68	48	49	72	2.1	2.9	3.4	
309340	Upgrade	65	60	85	17	17	42	39	40	63	21.9	22.7	21.4	
309341	New	60	55	80	-	-	-	-	48	49	73	-	-	-
309344	Upgrade	65	60	85	53	53	77	52	53	76	-1.8	-0.5	-0.8	
309345	New	60	55	80	-	-	-	-	44	45	69	-	-	-
309349	Upgrade	65	60	85	47	46	69	46	47	71	-0.4	1.3	1.8	
309350	Upgrade	65	60	85	50	50	74	51	52	75	1.3	2.1	1.0	
309351	Upgrade	65	60	85	48	47	72	48	49	72	-0.3	1.4	0.1	
309354	Upgrade	65	60	85	53	53	77	51	52	76	-1.8	-0.7	-1.4	
309357	Upgrade	65	60	85	59	60	85	52	53	76	-7.8	-7.0	-8.5	
309359	New	60	55	80	-	-	-	-	46	47	71	-	-	-
309360	New	60	55	80	-	-	-	-	47	48	71	-	-	-
309362	Upgrade	65	60	85	47	47	68	49	50	73	2.3	3.2	5.0	
309364	Upgrade	65	60	85	45	45	68	48	49	72	2.8	3.7	4.7	
309365	Upgrade	65	60	85	54	54	79	52	53	76	-2.4	-1.7	-2.6	
309366	New	60	55	80	-	-	-	-	49	50	73	-	-	-
309367	Upgrade	65	60	85	50	50	75	50	51	75	0.0	1.2	-0.1	
309369	Upgrade	65	60	85	46	45	69	45	46	70	-0.6	1.1	0.4	
309371	Upgrade	65	60	85	47	46	72	47	48	72	0.0	1.7	0.0	
309372	New	60	55	80	-	-	-	-	50	51	75	-	-	-
309378	New	60	55	80	-	-	-	-	45	46	70	-	-	-
309379	Upgrade	65	60	85	46	45	67	46	47	70	0.1	1.6	2.8	
309380	New	60	55	80	-	-	-	-	48	49	73	-	-	-
309381	Upgrade	65	60	85	50	50	74	50	51	74	-0.5	0.7	0.6	
309382	New	60	55	80	-	-	-	-	50	51	75	-	-	-
309385	Upgrade	65	60	85	56	57	82	52	53	77	-4.5	-3.6	-5.0	
309386	Upgrade	65	60	85	46	45	68	46	47	70	0.2	1.4	2.3	
309388	Upgrade	65	60	85	47	46	72	48	49	72	0.9	2.8	0.9	
309391	Upgrade	65	60	85	46	46	67	48	49	72	2.0	2.9	5.2	
309395	Upgrade	65	60	85	47	47	70	46	47	70	-0.7	0.3	-0.1	
309396	Upgrade	65	60	85	53	53	78	50	51	75	-3.3	-2.2	-3.3	
309398	New	60	55	80	-	-	-	-	51	52	75	-	-	-
309399	Upgrade	65	60	85	49	48	72	48	49	72	-1.1	0.5	-0.4	
309400	New	60	55	80	-	-	-	-	49	50	74	-	-	-
309403	New	60	55	80	-	-	-	-	49	50	74	-	-	-
309406	Upgrade	65	60	85	48	48	72	47	48	72	-0.9	-0.1	-0.7	
309407	Upgrade	65	60	85	47	46	71	47	48	72	0.2	2.2	0.7	
309408	Upgrade	65	60	85	48	47	70	48	49	72	0.1	1.6	1.9	
309412	New	60	55	80	-	-	-	-	51	52	75	-	-	-
309414	Upgrade	65	60	85	45	45	68	48	49	72	2.6	3.5	4.5	
309415	New	60	55	80	-	-	-	-	51	52	75	-	-	-
309416	Upgrade	65	60	85	53	53	79	51	52	75	-1.8	-1.1	-3.4	

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA				Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmix	LAeq,15hr	LAeq,9hr	LAmix	LAeq,15hr	LAeq,9hr	LAmix	
309418	Upgrade	65	60	85	48	48	72	54	55	78	5.9	6.6	5.7	
309420	New	60	55	80	-	-	-	53	54	78	-	-	-	
309422	Upgrade	65	60	85	48	47	71	46	47	70	-2.1	-0.3	-0.4	
309423	Upgrade	65	60	85	48	48	70	48	49	72	-0.1	1.2	1.9	
309426	Upgrade	65	60	85	45	46	69	52	53	75	6.4	7.1	6.0	
309428	New	60	55	80	-	-	-	52	53	77	-	-	-	
309431	New	60	55	80	-	-	-	51	52	76	-	-	-	
309433	New	60	55	80	-	-	-	54	55	79	-	-	-	
309434	New	60	55	80	-	-	-	51	52	76	-	-	-	
309435	New	60	55	80	-	-	-	43	44	64	-	-	-	
309437	Upgrade	65	60	85	46	46	68	48	49	72	2.3	3.1	4.8	
309438	New	60	55	80	-	-	-	50	51	74	-	-	-	
309442	Upgrade	65	60	85	44	44	69	51	52	74	6.9	7.6	5.8	
309443	Upgrade	65	60	85	56	56	81	48	49	72	-8.1	-7.4	-8.9	
309444	New	60	55	80	-	-	-	52	53	76	-	-	-	
309445	Upgrade	65	60	85	48	48	73	47	48	72	-0.9	0.1	-1.1	
309446	Upgrade	65	60	85	48	47	72	46	47	71	-1.7	0.4	-1.4	
309450	Upgrade	65	60	85	47	47	70	48	49	72	0.9	1.9	2.8	
309453	Upgrade	65	60	85	49	48	72	46	47	70	-2.6	-1.0	-2.4	
309454	New	60	55	80	-	-	-	52	53	76	-	-	-	
309455	Upgrade	65	60	85	48	47	70	51	52	75	2.9	4.6	5.1	
309457	Upgrade	65	60	85	46	46	68	49	50	73	2.6	3.6	4.8	
309459	Upgrade	65	60	85	52	51	75	50	51	75	-1.7	-0.2	-0.3	
309460	New	60	55	80	-	-	-	40	41	61	-	-	-	
309461	Upgrade	65	60	85	49	48	72	48	49	72	-1.3	0.6	0.3	
309462	Upgrade	65	60	85	48	48	72	48	49	72	-0.2	0.8	0.5	
309466	Upgrade	65	60	85	47	47	70	48	49	72	0.7	2.2	2.8	
309467	Upgrade	65	60	85	49	49	71	55	56	79	5.9	6.9	8.7	
309471	Upgrade	65	60	85	54	54	80	50	51	74	-4.2	-3.4	-5.6	
309472	Upgrade	65	60	85	47	47	71	46	47	71	-1.3	0.7	-0.1	
309475	Upgrade	65	60	85	51	52	76	50	51	74	-1.6	-0.8	-2.0	
309477	Upgrade	65	60	85	48	47	72	48	49	72	-0.4	1.7	0.5	
309482	Upgrade	65	60	85	45	45	67	51	52	75	5.8	7.1	8.0	
309485	Upgrade	65	60	85	47	47	70	52	54	77	5.3	6.8	7.1	
309489	Upgrade	65	60	85	42	42	63	48	49	72	5.6	6.6	8.7	
309490	Upgrade	65	60	85	49	49	74	50	51	74	1.3	2.3	0.9	
309494	Upgrade	65	60	85	25	25	49	38	40	63	13.5	14.2	13.3	
309495	Upgrade	65	60	85	17	17	42	39	40	63	21.5	22.2	20.9	
309498	Upgrade	65	60	85	51	51	75	48	49	72	-3.2	-2.2	-2.9	
309502	Upgrade	65	60	85	48	48	73	50	51	75	2.1	3.1	1.5	
309505	Upgrade	65	60	85	39	39	64	49	50	73	9.9	10.6	8.8	
309509	Upgrade	65	60	85	48	48	71	53	54	78	4.6	6.0	6.8	
309510	Upgrade	65	60	85	40	40	62	45	46	69	5.0	6.3	6.6	
309512	Upgrade	65	60	85	50	50	75	52	53	76	1.3	2.3	0.8	
309513	Upgrade	65	60	85	48	48	70	53	54	77	4.5	6.0	7.2	
309515	Upgrade	65	60	85	42	42	66	50	51	74	8.4	9.1	8.1	
309516	Upgrade	65	60	85	57	57	83	48	49	73	-9.0	-8.2	-9.9	
309518	Upgrade	65	60	85	48	47	70	53	54	77	4.9	6.4	7.3	
309519	Upgrade	65	60	85	50	50	74	51	52	75	0.7	1.8	1.4	
309520	Upgrade	65	60	85	50	50	73	53	54	78	2.7	4.5	4.9	
309521	Upgrade	65	60	85	46	46	69	48	49	72	1.4	2.2	3.3	



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
309522	Upgrade	65	60	85	39	40	65	47	48	72	8.0	8.6	7.0
309523	Upgrade	65	60	85	49	48	70	53	54	77	3.8	5.2	6.9
309525	Upgrade	65	60	85	49	48	70	53	54	78	4.0	5.6	7.2
309530	Upgrade	65	60	85	51	51	74	51	52	76	0.7	1.8	1.6
309531	Upgrade	65	60	85	49	48	72	52	53	77	3.5	5.3	5.1
309534	New	60	55	80	-	-	-	41	42	61	-	-	-
309535	Upgrade	65	60	85	48	47	70	52	53	77	4.0	5.7	6.8
309537	Upgrade	65	60	85	47	47	70	49	51	74	2.1	3.1	3.6
309538	Upgrade	65	60	85	29	30	55	40	41	64	10.3	11.1	8.9
309539	Upgrade	65	60	85	52	52	75	52	53	76	-0.5	1.0	1.5
309543	Upgrade	65	60	85	58	59	84	49	50	74	-8.9	-8.2	-9.9
309544	New	60	55	80	-	-	-	47	49	71	-	-	-
309546	Upgrade	65	60	85	52	52	76	49	50	74	-2.7	-1.7	-1.9
309548	New	60	55	80	-	-	-	51	52	76	-	-	-
309551	Upgrade	65	60	85	38	38	60	43	44	67	5.1	6.1	7.1
309556	Upgrade	65	60	85	48	48	71	51	52	76	3.2	4.2	4.7
309567	New	60	55	80	-	-	-	50	51	74	-	-	-
309568	Upgrade	65	60	85	40	41	65	48	49	72	7.5	8.3	7.3
309569	Upgrade	65	60	85	47	47	71	48	50	73	1.9	2.8	2.2
309570	Upgrade	65	60	85	57	57	82	50	51	74	-6.9	-6.0	-7.6
309571	Upgrade	65	60	85	51	51	73	52	53	76	0.6	1.9	3.1
309574	New	60	55	80	-	-	-	53	54	78	-	-	-
309579	Upgrade	65	60	85	55	55	80	50	51	75	-4.4	-3.6	-4.5
309589	Upgrade	65	60	85	59	59	85	49	50	74	-9.6	-8.9	-10.4
309590	Upgrade	65	60	85	51	51	74	52	53	77	1.1	2.1	2.8
309591	Upgrade	65	60	85	41	42	64	47	48	70	5.4	6.1	6.3
309592	Upgrade	65	60	85	48	48	72	51	52	75	2.5	3.3	3.7
309595	Upgrade	65	60	85	51	51	73	52	53	77	1.2	2.3	4.2
309596	Upgrade	65	60	85	53	53	77	52	53	77	-0.4	0.6	-0.2
309601	Upgrade	65	60	85	55	55	80	50	51	75	-5.0	-4.2	-5.2
309617	Upgrade	65	60	85	51	51	74	53	54	77	1.9	3.0	3.1
309618	Upgrade	65	60	85	44	44	67	49	50	73	5.3	6.0	5.7
309620	Upgrade	65	60	85	61	62	87	53	54	78	-7.9	-7.2	-8.8
309621	Upgrade	65	60	85	57	57	82	52	53	77	-4.9	-4.1	-5.1
309622	Upgrade	65	60	85	47	47	72	49	50	74	2.6	3.4	2.8
309623	Upgrade	65	60	85	48	49	72	51	52	75	2.5	3.2	3.1
309627	Upgrade	65	60	85	43	43	64	49	50	73	5.6	6.7	9.4
309628	New	60	55	80	-	-	-	53	54	78	-	-	-
309629	Upgrade	65	60	85	47	47	68	53	54	77	6.0	6.9	9.3
309631	Upgrade	65	60	85	48	48	70	54	55	78	5.3	6.7	8.0
309632	Upgrade	65	60	85	22	23	46	36	37	59	13.5	14.1	13.1
309633	Upgrade	65	60	85	51	52	76	54	55	79	3.0	3.9	3.5
309636	Upgrade	65	60	85	52	52	76	53	54	78	1.2	2.0	1.4
309638	Upgrade	65	60	85	57	57	83	54	55	79	-2.7	-2.0	-3.5
309642	Upgrade	65	60	85	39	39	61	44	45	69	5.4	6.4	7.8
309643	Upgrade	65	60	85	0	0	0	40	41	65	40.4	41.4	65.0
309647	Upgrade	65	60	85	39	39	61	45	46	69	5.9	6.8	8.2
309648	Upgrade	65	60	85	43	42	64	48	49	72	5.7	6.9	8.8
309652	Upgrade	65	60	85	39	39	62	44	45	67	5.4	6.7	4.9
309654	Upgrade	65	60	85	49	49	72	55	56	80	6.5	7.6	8.5
309655	Upgrade	65	60	85	0	0	0	41	42	65	40.6	41.6	65.2

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		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmix	LAeq,15hr	LAeq,9hr	LAmix	LAeq,15hr	LAeq,9hr	LAmix
309656	Upgrade	65	60	85	49	49	73	52	53	77	2.8	3.6	3.2
309661	Upgrade	65	60	85	47	48	72	51	52	76	4.0	4.7	4.4
309664	Upgrade	65	60	85	50	51	75	54	55	78	3.2	4.1	3.3
309667	Upgrade	65	60	85	50	50	74	54	55	79	4.2	5.0	4.7
309668	Upgrade	65	60	85	52	52	76	55	56	79	2.8	3.7	3.1
309669	Upgrade	65	60	85	48	48	71	50	51	75	2.6	3.3	4.5
309673	Upgrade	65	60	85	36	36	58	42	43	66	6.3	7.3	8.1
309674	Upgrade	65	60	85	45	45	67	52	53	76	6.3	7.2	8.7
309675	Upgrade	65	60	85	56	56	81	54	55	79	-1.6	-0.8	-2.0
309677	Upgrade	65	60	85	49	50	72	52	53	76	2.4	3.2	4.5
309689	Upgrade	65	60	85	43	43	65	49	50	73	5.8	6.9	7.9
309690	Upgrade	65	60	85	44	44	66	50	51	75	5.9	6.9	8.6
309693	Upgrade	65	60	85	43	43	64	49	50	73	5.7	6.7	9.5
309694	Upgrade	65	60	85	0	0	0	45	46	70	45.2	46.2	69.6
309699	Upgrade	65	60	85	51	51	75	57	58	81	5.6	6.5	6.3
309701	Upgrade	65	60	85	0	0	0	46	48	71	46.4	47.5	71.1
309702	Upgrade	65	60	85	40	39	62	45	46	69	5.2	6.5	7.2
309704	Upgrade	65	60	85	51	51	76	56	57	81	4.6	5.6	4.6
309707	Upgrade	65	60	85	54	54	79	56	57	81	1.7	2.5	1.3
309713	Upgrade	65	60	85	39	39	62	44	45	68	5.0	6.3	6.2
309715	Upgrade	65	60	85	49	49	72	51	52	76	2.2	3.1	3.5
309719	Upgrade	65	60	85	39	39	62	44	45	69	5.2	6.3	6.9
309720	Upgrade	65	60	85	59	59	84	56	57	81	-2.9	-2.2	-3.6
309722	Upgrade	65	60	85	36	37	60	43	44	68	6.9	7.5	8.3
309723	New	60	55	80	-	-	-	50	51	75	-	-	-
309731	Upgrade	65	60	85	52	52	77	56	57	81	4.3	5.0	3.9
309734	Upgrade	65	60	85	50	50	72	55	55	78	4.7	5.8	6.0
309737	Upgrade	65	60	85	51	51	73	56	56	78	4.3	5.6	4.2
309738	Upgrade	65	60	85	51	50	73	55	56	77	4.4	5.6	4.7
309742	Upgrade	65	60	85	51	50	73	55	56	78	4.1	5.5	4.6
309744	Upgrade	65	60	85	50	50	72	54	55	77	4.6	5.5	4.8
309747	Upgrade	65	60	85	50	51	75	58	59	83	7.9	8.7	8.2
309754	Upgrade	65	60	85	0	0	0	49	50	72	48.7	49.6	71.9
309755	Upgrade	65	60	85	52	51	73	56	56	78	4.0	5.4	4.4
309756	Upgrade	65	60	85	52	53	77	56	57	81	3.8	4.7	4.0
309757	Upgrade	65	60	85	40	41	64	48	49	70	7.2	7.8	5.9
309759	Upgrade	65	60	85	50	50	71	55	56	77	4.6	5.6	6.4
309760	Upgrade	65	60	85	57	58	83	56	57	81	-1.2	-0.4	-1.7
309765	Upgrade	65	60	85	41	41	65	48	49	71	7.2	7.9	5.9
309780	Upgrade	65	60	85	0	0	0	48	49	73	48.1	49.1	72.9
309787	Upgrade	65	60	85	0	0	0	47	48	72	46.8	47.9	71.6
309793	Upgrade	65	60	85	36	36	58	42	43	65	5.7	6.4	6.7
309796	Upgrade	65	60	85	60	61	86	59	60	83	-1.8	-1.0	-2.9
309799	New	60	55	80	-	-	-	53	54	77	-	-	-
309801	Upgrade	65	60	85	37	37	58	42	43	64	5.6	6.3	6.7
309812	Upgrade	65	60	85	49	48	70	53	54	75	4.6	5.5	5.3
309813	New	60	55	80	-	-	-	67	69	93	-	-	-
309817	Upgrade	65	60	85	0	0	0	47	48	71	46.6	47.7	71.4
309819	New	60	55	80	-	-	-	53	54	75	-	-	-
309821	Upgrade	65	60	85	37	38	59	43	44	65	5.7	6.4	6.6
309826	Upgrade	65	60	85	42	42	66	50	51	73	7.4	8.1	6.3

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		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
309829	Upgrade	65	60	85	52	53	77	56	58	81	4.2	5.0	4.1
309834	Upgrade	65	60	85	53	54	77	57	58	81	3.5	4.3	4.0
309835	Upgrade	65	60	85	36	37	58	42	43	64	5.4	6.1	5.6
309839	Upgrade	65	60	85	56	57	81	60	61	85	3.6	4.4	3.5
309843	Upgrade	65	60	85	40	40	61	46	47	70	5.6	6.7	9.1
309844	Upgrade	65	60	85	0	0	0	43	44	68	43.1	44.1	67.8
309849	Upgrade	65	60	85	0	0	0	50	50	73	49.7	50.4	72.6
309852	Upgrade	65	60	85	36	37	59	42	43	65	6.0	6.6	6.7
309859	Upgrade	65	60	85	0	0	0	46	47	71	45.7	46.7	70.5
309866	Upgrade	65	60	85	0	0	0	37	38	59	36.7	37.7	58.9
309872	Upgrade	65	60	85	55	55	80	59	60	84	3.9	4.6	4.0
309875	Upgrade	65	60	85	0	0	0	48	48	70	47.5	48.1	69.5
309879	Upgrade	65	60	85	49	48	70	53	54	76	4.4	5.8	5.3
309882	Upgrade	65	60	85	47	46	69	51	52	74	4.2	5.6	4.6
309883	Upgrade	65	60	85	46	45	69	51	52	74	5.1	6.4	5.2
309887	Upgrade	65	60	85	28	29	51	35	36	60	6.8	7.5	9.1
309899	Upgrade	65	60	85	36	36	57	41	42	65	5.3	6.5	7.4
309901	Upgrade	65	60	85	23	23	47	34	35	59	11.0	11.7	11.5
309904	Upgrade	65	60	85	33	33	55	38	39	61	4.6	5.9	6.1
309916	Upgrade	65	60	85	33	33	54	38	39	62	4.6	6.0	8.1
309918	Upgrade	65	60	85	57	58	83	62	63	86	4.2	4.9	3.9
309920	Upgrade	65	60	85	33	33	54	38	39	61	4.5	6.1	7.0
309923	Upgrade	65	60	85	47	47	68	52	53	75	4.9	6.0	6.6
309927	Upgrade	65	60	85	48	47	68	52	53	75	4.9	6.0	6.6
309933	Upgrade	65	60	85	31	31	54	35	36	59	3.9	5.6	5.0
309939	Upgrade	65	60	85	41	41	63	46	47	69	4.9	6.2	6.5
309942	Upgrade	65	60	85	44	43	65	49	50	72	5.0	6.2	6.7
309951	Upgrade	65	60	85	42	42	65	47	48	69	4.5	5.7	4.7
309961	Upgrade	65	60	85	0	0	0	42	43	67	42.0	43.0	66.5
309966	Upgrade	65	60	85	41	41	65	47	49	71	6.6	7.4	6.3
309969	Upgrade	65	60	85	42	42	65	48	48	71	5.2	6.5	6.6
309977	Upgrade	65	60	85	25	25	48	32	33	57	7.3	8.0	9.4
309994	Upgrade	65	60	85	27	27	49	34	35	59	7.2	8.0	9.3
310000	Upgrade	65	60	85	26	26	50	33	34	58	7.2	7.9	8.2
310010	Upgrade	65	60	85	41	42	65	46	47	70	4.9	5.6	5.2
310014	Upgrade	65	60	85	41	41	65	46	47	70	5.0	5.7	5.1
310022	Upgrade	65	60	85	0	0	0	41	42	64	40.5	41.5	64.2
310054	Upgrade	65	60	85	46	45	67	50	51	73	4.7	5.9	5.9
310057	Upgrade	65	60	85	25	25	48	32	33	57	7.1	7.8	9.1
310060	Upgrade	65	60	85	24	24	47	31	32	56	7.4	8.1	9.3
310072	Upgrade	65	60	85	25	25	49	32	33	56	7.0	7.7	7.6
310074	Upgrade	65	60	85	24	24	49	31	32	56	7.3	8.1	7.7
310085	Upgrade	65	60	85	24	24	47	31	32	56	7.4	8.0	8.8
310095	Upgrade	65	60	85	46	46	69	50	51	75	4.7	5.3	5.5
310104	Upgrade	65	60	85	44	44	67	48	49	72	4.6	5.4	5.6
310118	Upgrade	65	60	85	42	42	65	46	47	71	4.8	5.5	5.4
310130	Upgrade	65	60	85	44	43	67	49	50	72	5.1	6.4	5.3
310132	Upgrade	65	60	85	46	46	69	51	52	75	5.1	6.2	6.2
310133	Upgrade	65	60	85	36	36	60	42	43	66	5.9	6.7	6.5
310139	Upgrade	65	60	85	41	42	65	46	47	71	4.8	5.5	5.3
310141	Upgrade	65	60	85	46	45	68	51	52	74	5.1	6.2	6.7

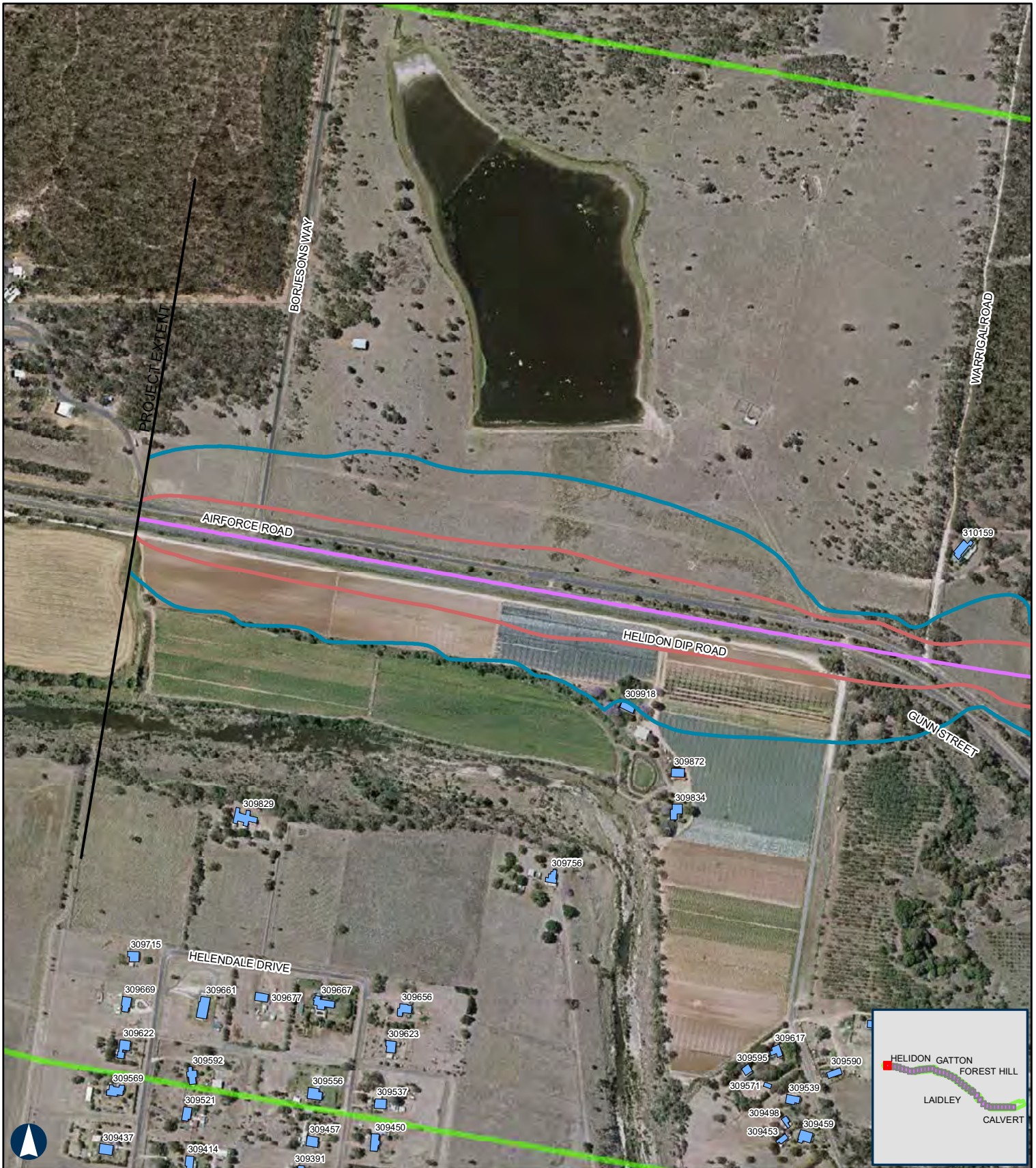


Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
310150	Upgrade	65	60	85	42	43	66	47	48	71	4.7	5.5	5.3
310154	Upgrade	65	60	85	0	0	0	46	47	71	46.0	47.1	70.8
310159	Upgrade	65	60	85	55	56	81	59	60	84	3.8	4.5	3.6
310184	Upgrade	65	60	85	0	0	0	46	47	69	46.0	46.9	69.2
310187	Upgrade	65	60	85	41	41	62	46	47	68	5.1	6.0	5.5
310189	Upgrade	65	60	85	39	39	64	44	45	69	5.2	5.8	4.9
310211	Upgrade	65	60	85	40	40	63	45	46	68	5.2	5.9	5.8
310217	Upgrade	65	60	85	30	31	53	37	38	61	6.5	7.2	8.0
310219	Upgrade	65	60	85	39	38	62	43	44	66	4.5	5.5	4.4
310226	Upgrade	65	60	85	0	0	0	38	38	57	37.5	37.9	57.4
310238	Upgrade	65	60	85	30	30	52	36	37	61	6.8	7.6	9.0
310239	Upgrade	65	60	85	32	32	55	38	39	63	6.6	7.3	8.0
310245	Upgrade	65	60	85	21	22	46	29	30	53	7.5	8.1	7.5
310251	Upgrade	65	60	85	34	34	57	39	40	62	5.1	5.8	5.8
310270	Upgrade	65	60	85	0	0	0	47	48	70	47.3	48.1	70.3
310276	Upgrade	65	60	85	0	0	0	43	44	68	43.3	44.3	67.9
310284	Upgrade	65	60	85	0	0	0	43	44	68	42.9	43.9	67.6
310286	Upgrade	65	60	85	0	0	0	42	43	66	41.7	42.7	66.3
310289	Upgrade	65	60	85	0	0	0	45	46	68	44.9	45.8	68.3
310296	Upgrade	65	60	85	0	0	0	19	20	44	19.1	20.2	43.8
310299	Upgrade	65	60	85	0	0	0	38	39	63	38.1	39.1	62.9
310323	Upgrade	65	60	85	35	35	58	41	42	64	5.9	6.6	6.2
310333	Upgrade	65	60	85	38	39	62	45	46	70	6.6	7.3	8.1
310353	Upgrade	65	60	85	33	34	57	39	40	63	5.5	6.1	5.8
310373	Upgrade	65	60	85	34	34	59	41	42	66	7.1	7.8	6.9
310382	Upgrade	65	60	85	39	40	62	46	47	71	6.8	7.5	9.0
310414	Upgrade	65	60	85	39	39	63	44	45	68	4.5	5.5	4.3
310465	Upgrade	65	60	85	41	41	64	48	49	72	6.1	7.1	8.3
310466	Upgrade	65	60	85	38	38	62	43	44	66	4.7	5.7	4.3
310495	Upgrade	65	60	85	40	40	63	46	47	71	6.0	6.9	7.8
310529	Upgrade	65	60	85	0	0	0	45	46	67	44.9	45.7	67.3
310544	Upgrade	65	60	85	43	43	65	48	49	72	4.8	6.0	6.3
310568	Upgrade	65	60	85	42	42	65	47	48	71	5.0	6.1	5.9
310587	Upgrade	65	60	85	0	0	0	46	47	71	46.4	47.4	70.7
310623	Upgrade	65	60	85	38	38	62	44	45	68	5.4	6.4	5.6
310672	Upgrade	65	60	85	0	0	0	39	40	64	39.2	40.2	64.2
310689	Upgrade	65	60	85	40	40	64	44	45	68	4.7	5.6	4.5
310753	New	60	55	80	-	-	-	50	51	75	-	-	-
310768	Upgrade	65	60	85	39	39	61	44	45	66	4.6	5.5	4.4
310791	Upgrade	65	60	85	42	41	65	46	47	70	4.8	5.9	5.8
310794	Upgrade	65	60	85	37	37	61	42	43	66	5.0	5.6	5.0
310797	Upgrade	65	60	85	38	37	58	42	43	64	4.7	5.9	5.6
310813	Upgrade	65	60	85	0	0	0	42	43	65	42.3	43.1	65.1
310838	Upgrade	65	60	85	39	39	63	44	45	68	5.0	6.0	5.5
310850	Upgrade	65	60	85	0	0	0	45	46	68	45.0	45.8	68.0
310888	Upgrade	65	60	85	41	41	65	45	46	69	4.6	5.5	4.5
310900	Upgrade	65	60	85	38	38	63	43	44	67	4.8	5.4	4.3
310913	Upgrade	65	60	85	43	43	67	48	49	73	4.7	5.5	5.2
310926	Upgrade	65	60	85	0	0	0	45	46	68	44.7	45.5	67.7
310944	Upgrade	65	60	85	37	37	59	42	43	65	4.7	5.8	6.0
310954	Upgrade	65	60	85	39	39	63	44	44	68	4.9	5.8	4.5

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax
310969	Upgrade	65	60	85	44	44	67	50	51	75	6.1	6.9	7.8
310990	Upgrade	65	60	85	36	36	60	41	42	65	4.6	5.7	4.5
311022	Upgrade	65	60	85	37	37	62	42	43	66	4.7	5.4	4.5
311041	Upgrade	65	60	85	38	38	61	43	44	66	4.7	5.8	5.0
311042	Upgrade	65	60	85	0	0	0	42	43	65	42.0	42.8	64.8
311068	Upgrade	65	60	85	40	39	63	44	45	68	4.7	5.7	5.0
311081	Upgrade	65	60	85	35	35	59	40	40	63	4.4	5.6	4.5
311094	Upgrade	65	60	85	41	40	64	46	47	70	5.1	6.1	5.2
311143	Upgrade	65	60	85	38	38	63	43	44	68	5.0	5.7	4.6
311238	Upgrade	65	60	85	37	37	60	42	43	66	4.9	5.8	6.1
311262	Upgrade	65	60	85	39	39	63	44	45	67	4.7	5.6	4.4
311274	Upgrade	65	60	85	37	37	63	42	43	67	5.0	5.7	4.1
311298	Upgrade	65	60	85	0	0	0	44	45	67	44.3	45.0	67.3
311309	Upgrade	65	60	85	40	39	63	44	45	68	4.4	5.6	4.5
311356	Upgrade	65	60	85	35	35	61	40	41	65	5.0	5.8	4.0
311365	Upgrade	65	60	85	34	33	56	39	40	61	5.3	6.3	5.4
311372	Upgrade	65	60	85	38	38	62	43	43	66	4.3	5.5	4.1
311392	Upgrade	65	60	85	35	35	61	40	41	65	5.4	6.1	4.3
311505	Upgrade	65	60	85	37	37	61	42	43	65	4.5	5.6	4.8
311569	Upgrade	65	60	85	33	34	58	40	41	64	6.3	6.9	5.7
311680	Upgrade	65	60	85	0	0	0	40	41	63	39.7	40.5	63.3
311882	Upgrade	65	60	85	39	39	62	43	44	67	3.9	4.5	4.6
312056	Upgrade	65	60	85	0	0	0	36	37	61	36.3	37.3	61.1
312124	Upgrade	65	60	85	0	0	0	34	35	58	33.7	34.7	58.4
312438	Upgrade	65	60	85	43	43	65	48	49	72	5.2	5.9	6.6
312665	Upgrade	65	60	85	38	38	64	44	45	69	5.8	6.6	4.8
324082	Upgrade	65	60	85	59	59	85	41	42	65	-18.6	-17.9	-19.5
324128	New	60	55	80	-	-	-	46	47	71	-	-	-
324129	New	60	55	80	-	-	-	47	49	71	-	-	-
324130	Upgrade	65	60	85	25	25	45	43	44	67	18.8	19.6	22.1
324131	Upgrade	65	60	85	24	25	45	44	45	67	19.4	20.2	22.3
324132	Upgrade	65	60	85	22	23	44	44	45	68	21.5	22.3	23.2
324133	New	60	55	80	-	-	-	46	47	70	-	-	-
324134	Upgrade	65	60	85	44	44	67	48	49	72	4.4	5.2	5.7
324135	Upgrade	65	60	85	50	50	73	58	58	79	7.3	8.4	5.8
324136	New	60	55	80	-	-	-	56	57	81	-	-	-
324137	New	60	55	80	-	-	-	54	55	78	-	-	-
324138	New	60	55	80	-	-	-	54	55	78	-	-	-
324139	New	60	55	80	-	-	-	55	56	79	-	-	-
324140	New	60	55	80	-	-	-	55	56	80	-	-	-
324141	New	60	55	80	-	-	-	57	58	82	-	-	-
324142	New	60	55	80	-	-	-	56	57	81	-	-	-
324143	Upgrade	65	60	85	47	46	71	41	42	66	-5.8	-3.9	-4.9
324144	Upgrade	65	60	85	53	52	79	45	46	68	-8.3	-5.8	-10.5
324148	Upgrade	65	60	85	36	35	61	38	39	62	2.0	4.1	0.7
324153	Upgrade	65	60	85	59	58	86	59	59	81	-0.4	1.9	-4.8
324156	New	60	55	80	-	-	-	54	55	77	-	-	-
324157	New	60	55	80	-	-	-	57	58	81	-	-	-
324160	Upgrade	65	60	85	50	51	73	40	41	65	-10.6	-9.9	-8.8
324162	Upgrade	65	60	85	54	52	79	45	46	69	-9.1	-6.4	-10.2
324163	Upgrade	65	60	85	51	50	75	47	48	71	-4.3	-1.9	-4.4

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax
324164	Upgrade	65	60	85	52	50	77	45	46	69	-6.9	-4.2	-8.6
324165	Upgrade	65	60	85	49	48	75	45	46	69	-4.9	-2.8	-6.3
324166	Upgrade	65	60	85	51	50	76	45	46	68	-6.3	-3.9	-7.7
324167	Upgrade	65	60	85	49	47	75	47	48	71	-1.9	0.6	-4.5
324179	Upgrade	65	60	85	0	0	0	45	46	67	44.7	45.5	67.2
324180	Upgrade	65	60	85	0	0	0	40	41	65	40.0	41.0	64.7
324190	Upgrade	65	60	85	39	39	63	44	45	68	4.7	5.5	5.1
324191	Upgrade	65	60	85	39	39	64	44	45	69	5.0	5.7	4.8
324192	Upgrade	65	60	85	42	43	66	47	48	71	4.6	5.4	5.6
324199	Upgrade	65	60	85	40	40	64	44	45	69	4.5	5.5	4.6
324210	Upgrade	65	60	85	48	48	70	54	54	77	5.8	6.5	6.7
324211	New	60	55	80	-	-	-	63	64	88	-	-	-
324212	New	60	55	80	-	-	-	59	60	84	-	-	-
324213	New	60	55	80	-	-	-	64	65	90	-	-	-
324214	New	60	55	80	-	-	-	58	59	83	-	-	-
324215	New	60	55	80	-	-	-	60	61	85	-	-	-
324216	New	60	55	80	-	-	-	58	59	83	-	-	-
324217	Upgrade	65	60	85	48	48	71	53	54	78	5.2	5.9	6.6
324220	Upgrade	65	60	85	0	0	0	42	43	67	42.0	43.1	67.3
324223	New	60	55	80	-	-	-	59	60	84	-	-	-
324224	New	60	55	80	-	-	-	58	59	83	-	-	-
324225	New	60	55	80	-	-	-	62	63	87	-	-	-
324228	Upgrade	65	60	85	47	46	71	46	47	70	-1.6	0.4	-1.1
324234	New	60	55	80	-	-	-	52	53	76	-	-	-
324236	Upgrade	65	60	85	44	44	67	51	52	75	6.4	7.1	7.8
324243	Upgrade	65	60	85	60	60	88	46	47	71	-13.4	-12.6	-16.7
324244	New	60	55	80	-	-	-	55	56	80	-	-	-
324245	New	60	55	80	-	-	-	55	56	80	-	-	-
324246	Upgrade	65	60	85	43	42	66	47	48	71	3.9	5.7	5.1
324247	Upgrade	65	60	85	42	41	65	46	47	70	3.7	5.5	5.2
324249	Upgrade	65	60	85	43	42	66	47	48	71	4.2	6.0	4.9
324250	Upgrade	65	60	85	46	45	71	46	47	71	0.3	2.1	-0.1
324251	Upgrade	65	60	85	51	50	78	45	46	69	-6.3	-3.6	-8.7
324252	Upgrade	65	60	85	53	51	78	45	46	69	-7.4	-4.7	-8.5
324253	Upgrade	65	60	85	50	48	75	44	45	69	-5.4	-3.0	-6.4
324254	Upgrade	65	60	85	50	48	75	45	46	70	-4.8	-2.4	-5.8
324255	Upgrade	65	60	85	47	46	72	45	46	70	-2.1	0.1	-2.1
324256	Upgrade	65	60	85	50	49	74	46	47	69	-4.1	-2.0	-5.3
324257	Upgrade	65	60	85	50	48	76	46	47	70	-3.6	-1.2	-6.1
324262	New	60	55	80	-	-	-	56	57	81	-	-	-
324263	New	60	55	80	-	-	-	57	58	81	-	-	-
324264	New	60	55	80	-	-	-	57	58	83	-	-	-





## HELIDON TO CALVERT Year 2026 Daytime rail noise levels

APPENDIX D - Map 1 of 36

200 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:7,500  
 Date: 12-Oct-2020  
 Author: JG

- Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway

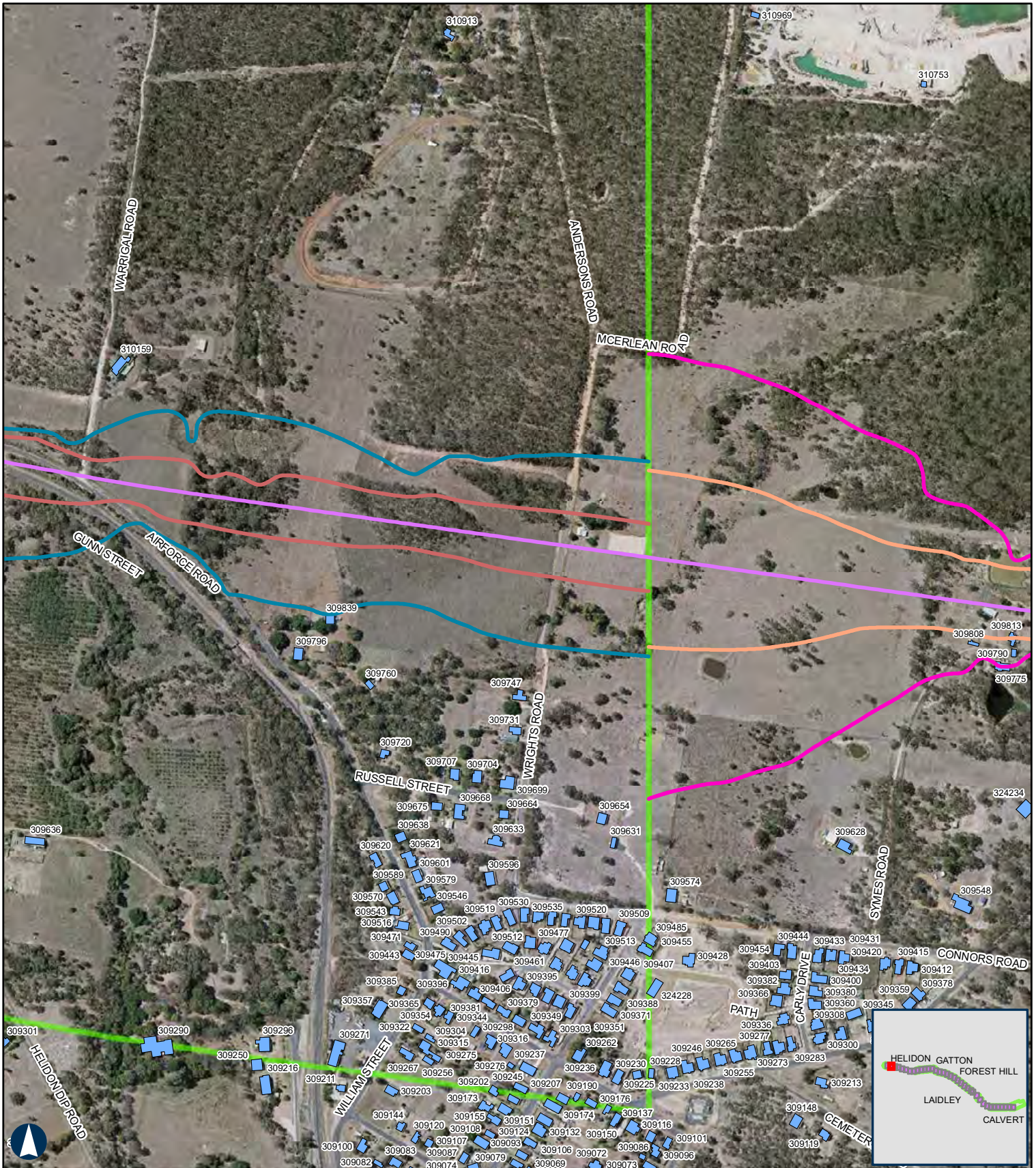
Noise contours are based on a set distance above the local terrain level of 2.4m.

- Daytime noise criteria LAeq15hr 60dBA New rail corridor
- Daytime noise criteria LAeq15hr 65dBA upgrading existing rail corridor
- Daytime noise criteria LA max 80dBA New rail corridor
- Daytime noise criteria LA max 85dBA upgrading existing rail corridor
- Receptors



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**HELIDON TO CALVERT** Year 2026 Daytime rail noise levels APPENDIX D - Map 2 of 36

<p><b>200 m</b></p> <p>Coordinate System: GDA 1994 MGA Zone 56</p> <p>ARTC makes no representation or warranty and assumes no duty of care or other responsibility to any party as to the completeness, accuracy or suitability of the information contained in this GIS map. The GIS map has been prepared from material provided to ARTC by an external source and ARTC has not taken any steps to verify the completeness, accuracy or suitability of that material.</p> <p>ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information contained within this GIS map.</p> <p>Paper: A4 Date: 12-Oct-2020 Author: JG</p>	<ul style="list-style-type: none"> <li><span style="color: red; font-size: 2em;">X</span> Level Crossings</li> <li><span style="border-bottom: 2px solid black; width: 20px; display: inline-block;"></span> Project Extent</li> <li><span style="border-bottom: 2px solid brown; width: 20px; display: inline-block;"></span> Crossing Loops</li> <li><span style="border-bottom: 2px solid magenta; width: 20px; display: inline-block;"></span> Rail Alignment/Centreline</li> <li><span style="border-bottom: 2px solid orange; width: 20px; display: inline-block;"></span> Bridges and Viaducts</li> <li><span style="border-bottom: 2px solid red; width: 20px; display: inline-block;"></span> Little Liverpool Range tunnel</li> <li><span style="border: 2px solid green; width: 20px; display: inline-block;"></span> Noise Assessment Area – Upgrading Existing Railway</li> </ul>	<ul style="list-style-type: none"> <li><span style="border-bottom: 2px solid orange; width: 20px; display: inline-block;"></span> Daytime noise criteria LAeq15hr 60dBA New rail corridor</li> <li><span style="border-bottom: 2px solid red; width: 20px; display: inline-block;"></span> Daytime noise criteria LAeq15hr 65dBA upgrading existing rail corridor</li> <li><span style="border-bottom: 2px solid magenta; width: 20px; display: inline-block;"></span> Daytime noise criteria LA max 80dBA New rail corridor</li> <li><span style="border-bottom: 2px solid blue; width: 20px; display: inline-block;"></span> Daytime noise criteria LA max 85dBA upgrading existing rail corridor</li> <li><span style="background-color: lightblue; width: 10px; height: 10px; display: inline-block;"></span> Receptors</li> </ul>	<p>Noise contours are based on a set distance above the local terrain level of 2.4m.</p>
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## HELIDON TO CALVERT Year 2026 Daytime rail noise levels

APPENDIX D - Map 3 of 36

200 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:7,500  
 Date: 12-Oct-2020  
 Author: JG

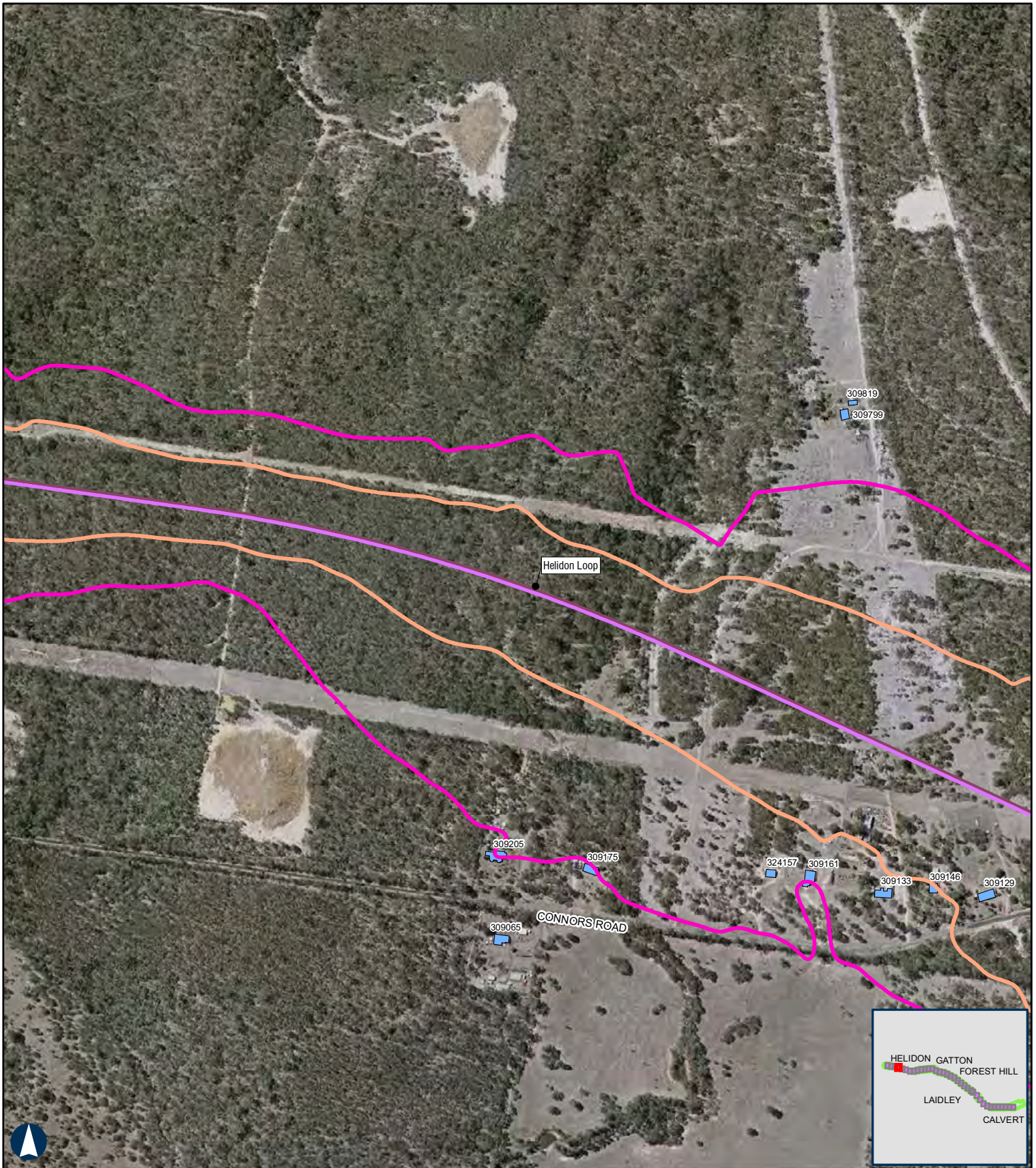
- Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway
- Receptors
- Daytime noise criteria LAeq15hr 60dBA New rail corridor
- Daytime noise criteria LAeq15hr 65dBA upgrading existing rail corridor
- Daytime noise criteria LA max 80dBA New rail corridor
- Daytime noise criteria LA max 85dBA upgrading existing rail corridor

Noise contours are based on a set distance above the local terrain level of 2.4m.



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## HELIDON TO CALVERT Year 2026 Daytime rail noise levels

APPENDIX D - Map 4 of 36

200 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:7,500  
 Date: 12-Oct-2020  
 Author: JG

- Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway
- Receptors
- Daytime noise criteria LAeq15hr 60dBA New rail corridor
- Daytime noise criteria LAeq15hr 65dBA upgrading existing rail corridor
- Daytime noise criteria LA max 80dBA New rail corridor
- Daytime noise criteria LA max 85dBA upgrading existing rail corridor

Noise contours are based on a set distance above the local terrain level of 2.4m.



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# HELIDON TO CALVERT Year 2026 Daytime rail noise levels

200 m

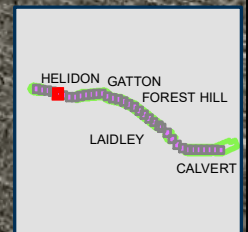
Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:7,500  
 Date: 12-Oct-2020  
 Author: JG

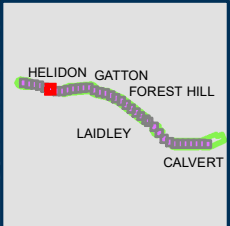
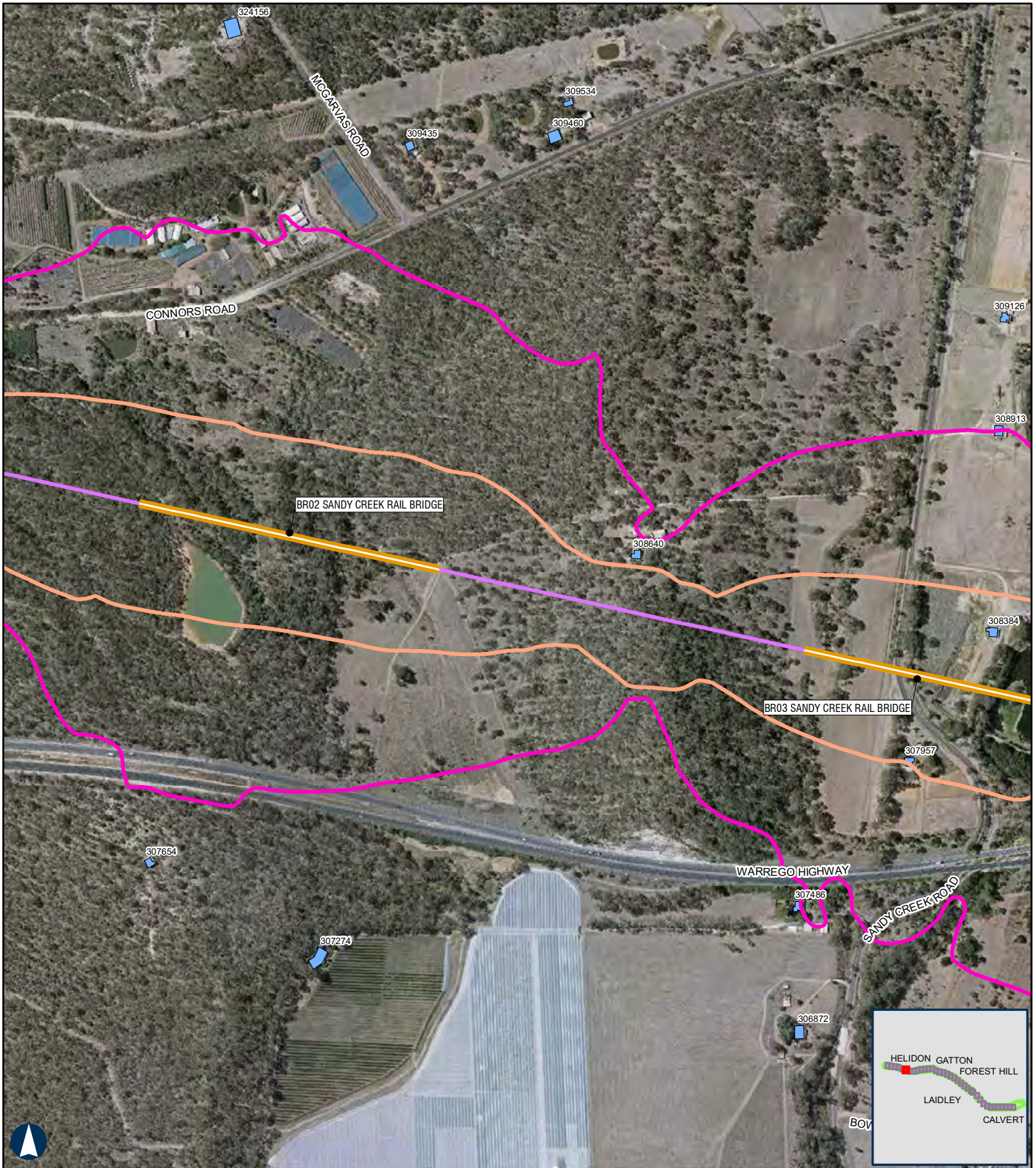
- Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
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- Noise Assessment Area – Upgrading Existing Railway
- Daytime noise criteria LAeq15hr 60dBA New rail corridor
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- Daytime noise criteria LA max 80dBA New rail corridor
- Daytime noise criteria LA max 85dBA upgrading existing rail corridor
- Receptors

Noise contours are based on a set distance above the local terrain level of 2.4m.



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## HELIDON TO CALVERT Year 2026 Daytime rail noise levels

APPENDIX D - Map 6 of 36

200 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:7,500  
 Date: 12-Oct-2020  
 Author: JG

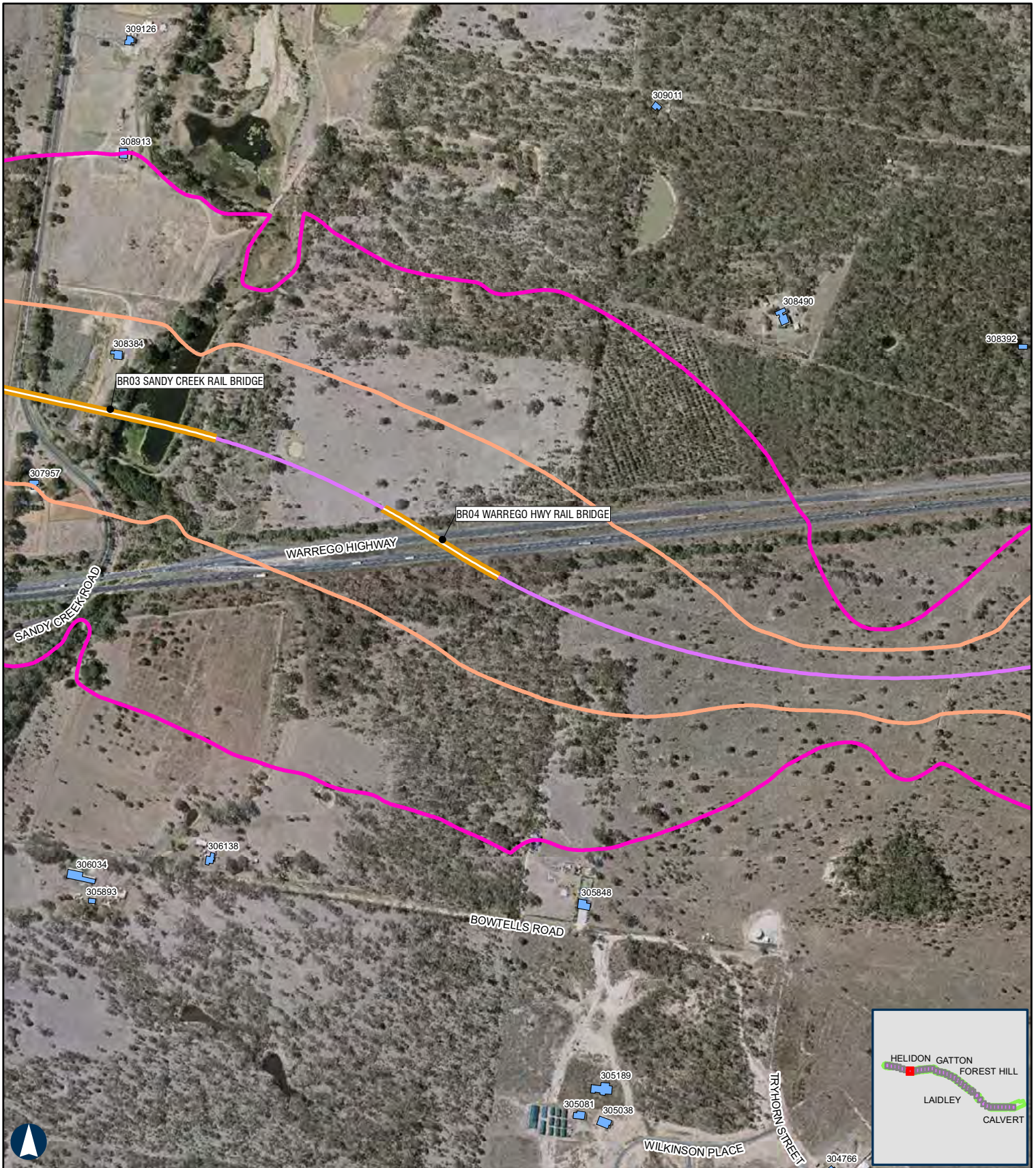
- ✗ Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway
- Daytime noise criteria LAeq15hr 60dBA New rail corridor
- Daytime noise criteria LAeq15hr 65dBA upgrading existing rail corridor
- Daytime noise criteria LA max 80dBA New rail corridor
- Daytime noise criteria LA max 85dBA upgrading existing rail corridor
- Receptors

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# HELIDON TO CALVERT Year 2026 Daytime rail noise levels

APPENDIX D - Map 7 of 36

200 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:7,500  
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 Author: JG

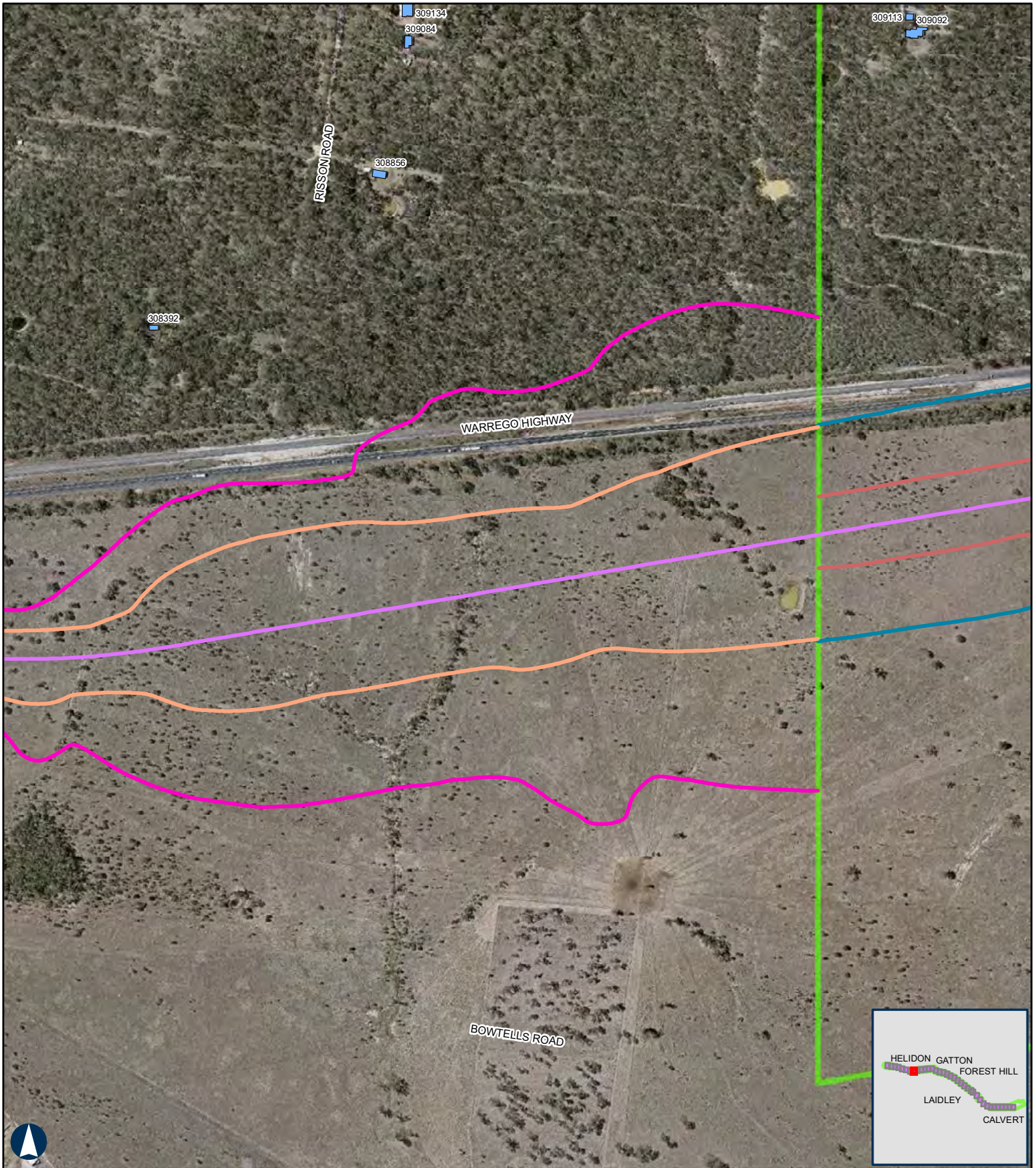
- Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway
- Daytime noise criteria LAeq15hr 60dBA New rail corridor
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- Daytime noise criteria LA max 85dBA upgrading existing rail corridor
- Receptors

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## HELIDON TO CALVERT Year 2026 Daytime rail noise levels

APPENDIX D - Map 8 of 36

200 m

Coordinate System: GDA 1994 MGA Zone 56

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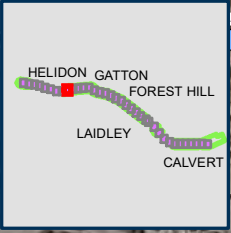
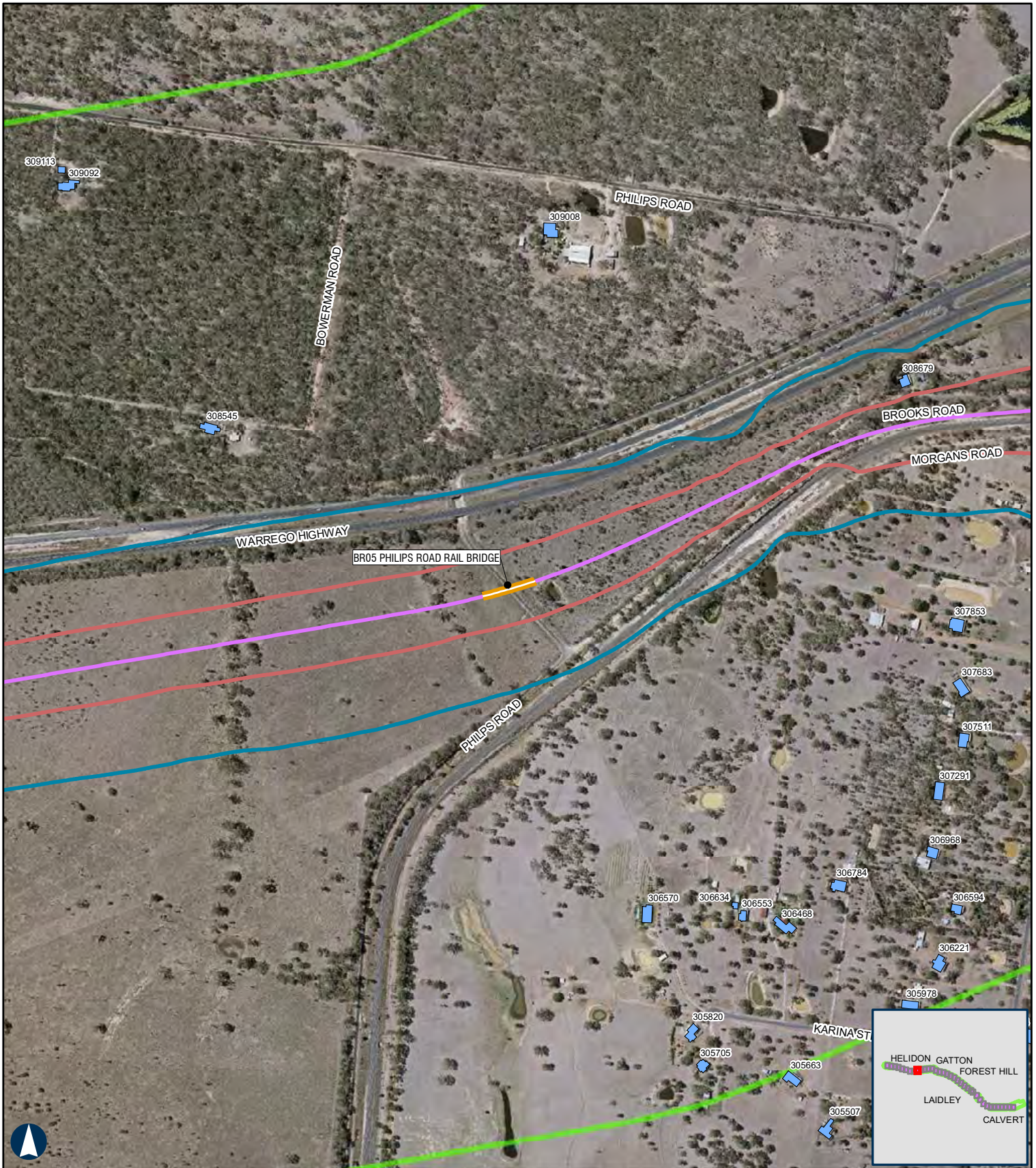
- Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
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Noise contours are based on a set distance above the local terrain level of 2.4m.



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## HELIDON TO CALVERT Year 2026 Daytime rail noise levels

APPENDIX D - Map 9 of 36

200 m

Coordinate System: GDA 1994 MGA Zone 56

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 Date: 12-Oct-2020  
 Author: JG

- Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway

Noise contours are based on a set distance above the local terrain level of 2.4m.

- Daytime noise criteria LAeq15hr 60dBA New rail corridor
- Daytime noise criteria LAeq15hr 65dBA upgrading existing rail corridor
- Daytime noise criteria LA max 80dBA New rail corridor
- Daytime noise criteria LA max 85dBA upgrading existing rail corridor
- Receptors



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## HELIDON TO CALVERT Year 2026 Daytime rail noise levels

APPENDIX D - Map 10 of 36

200 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:7,500  
 Date: 12-Oct-2020  
 Author: JG

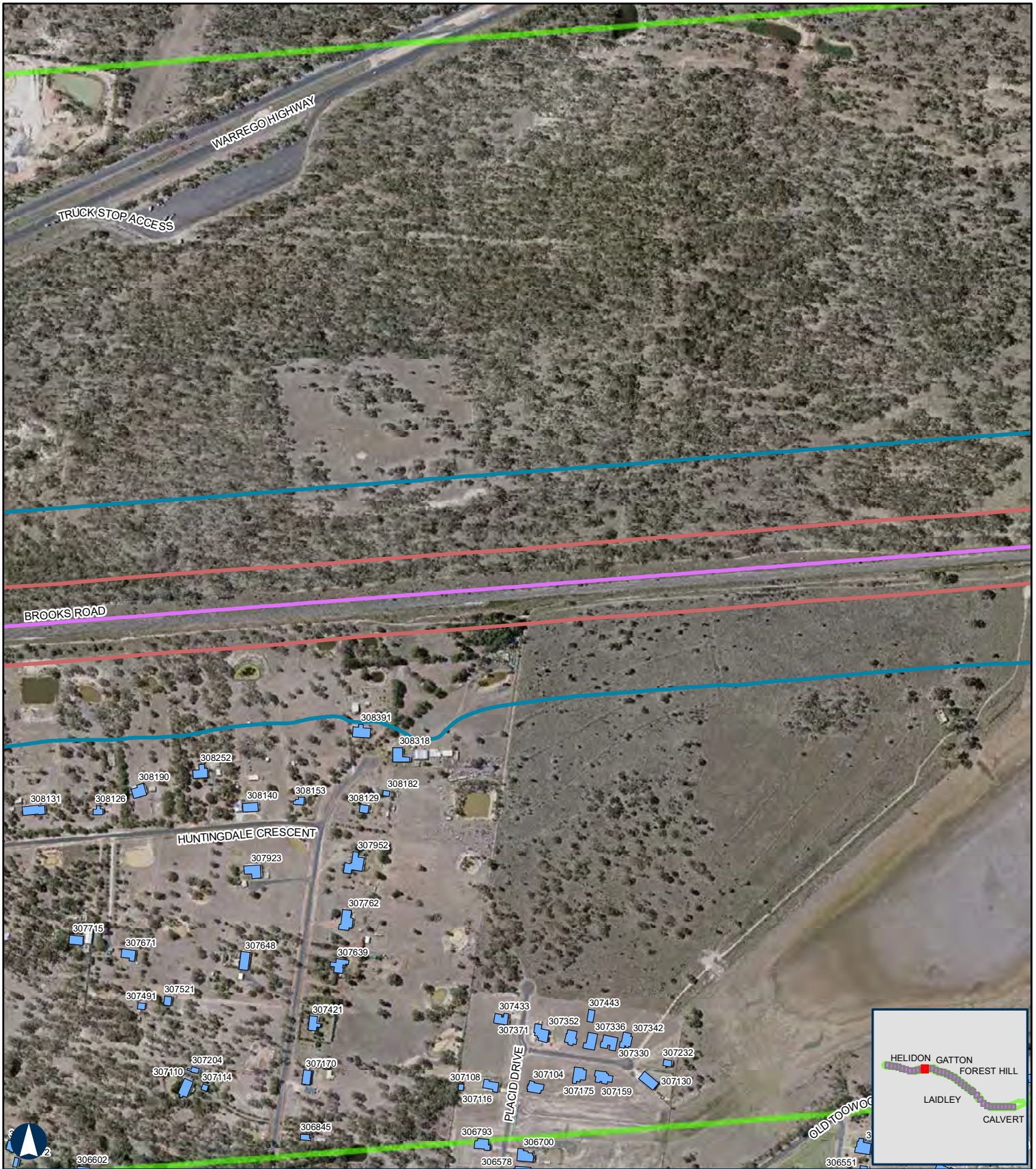
- Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway
- Receptors
- Daytime noise criteria LAeq15hr 60dBA New rail corridor
- Daytime noise criteria LAeq15hr 65dBA upgrading existing rail corridor
- Daytime noise criteria LA max 80dBA New rail corridor
- Daytime noise criteria LA max 85dBA upgrading existing rail corridor

Noise contours are based on a set distance above the local terrain level of 2.4m.



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# HELIDON TO CALVERT Year 2026 Daytime rail noise levels

APPENDIX D - Map 11 of 36

200 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4  
Date: 12-Oct-2020  
Author: JG

Scale: 1:7,500

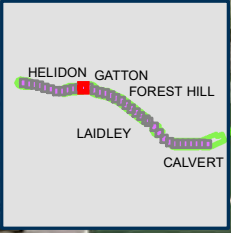
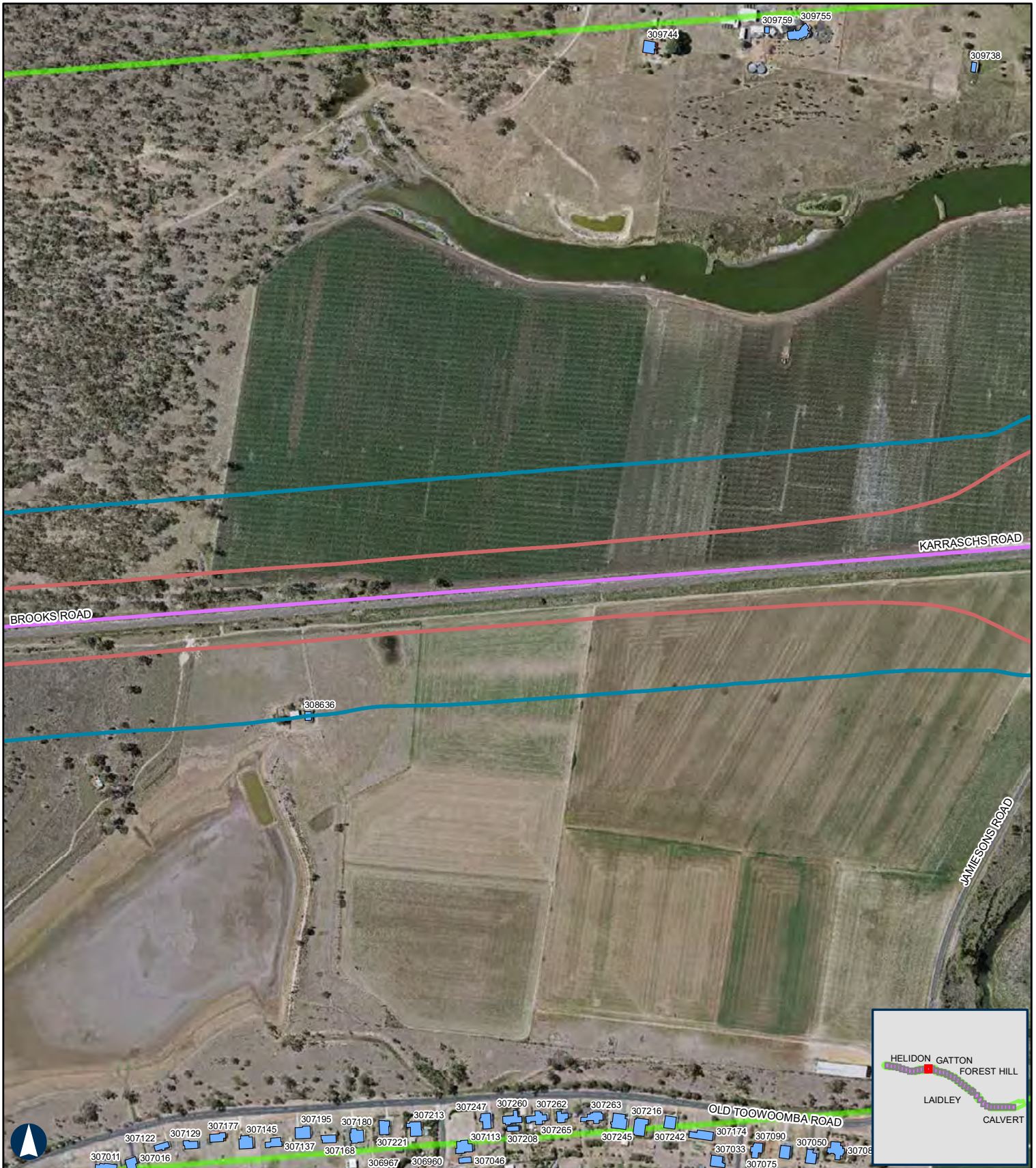
- Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway
- Daytime noise criteria LAeq15hr 60dBA New rail corridor
- Daytime noise criteria LAeq15hr 65dBA upgrading existing rail corridor
- Daytime noise criteria LA max 80dBA New rail corridor
- Daytime noise criteria LA max 85dBA upgrading existing rail corridor
- Receptors

Noise contours are based on a set distance above the local terrain level of 2.4m.



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## HELIDON TO CALVERT Year 2026 Daytime rail noise levels

APPENDIX D - Map 12 of 36

200 m

Coordinate System: GDA 1994 MGA Zone 56

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 Author: JG

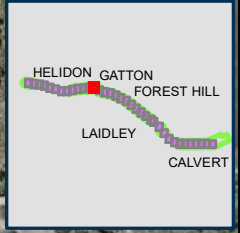
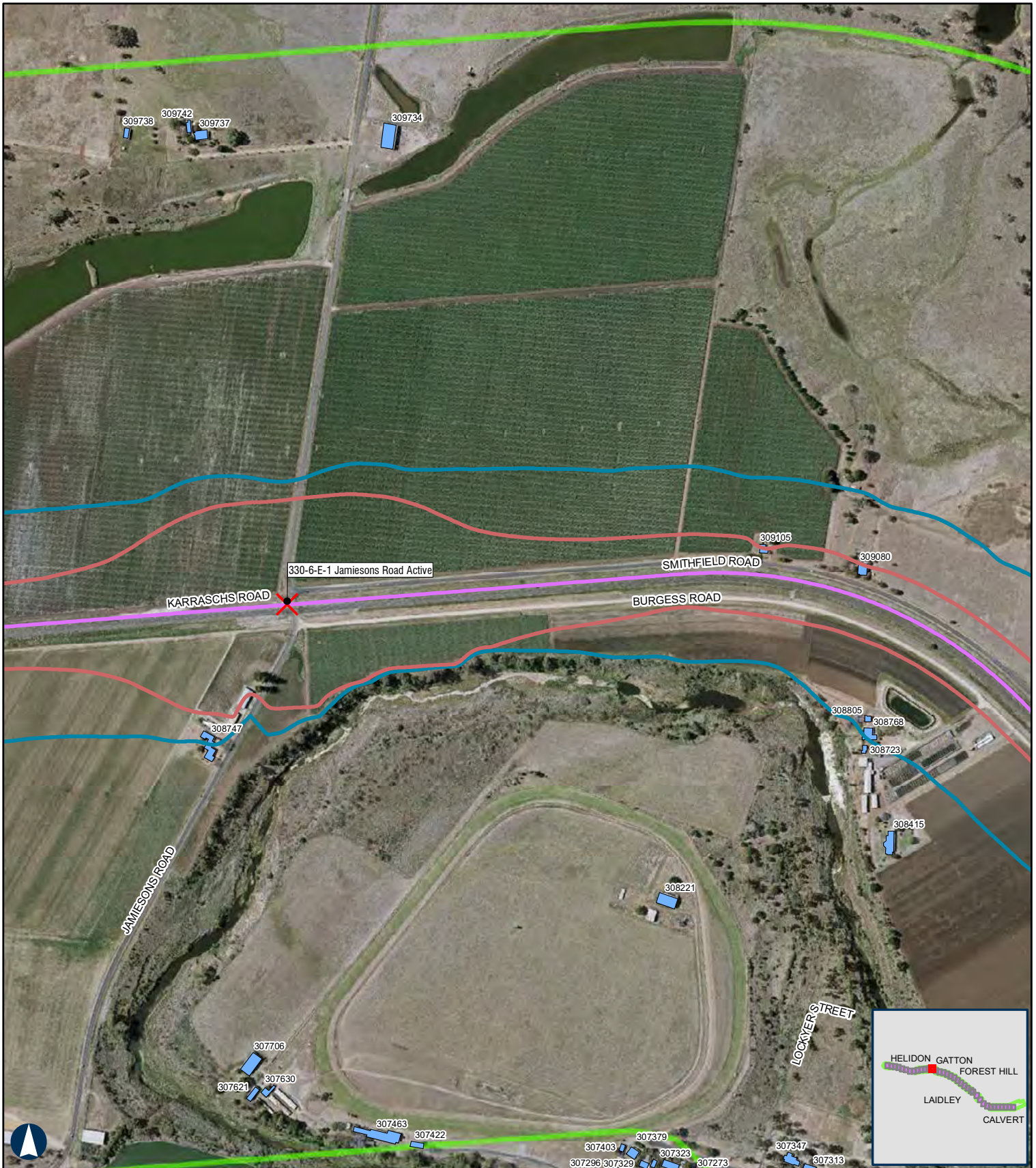
- ✗ Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway
- Daytime noise criteria LAeq15hr 60dBA New rail corridor
- Daytime noise criteria LAeq15hr 65dBA upgrading existing rail corridor
- Daytime noise criteria LA max 80dBA New rail corridor
- Daytime noise criteria LA max 85dBA upgrading existing rail corridor
- Receptors

Noise contours are based on a set distance above the local terrain level of 2.4m.



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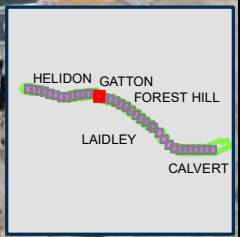
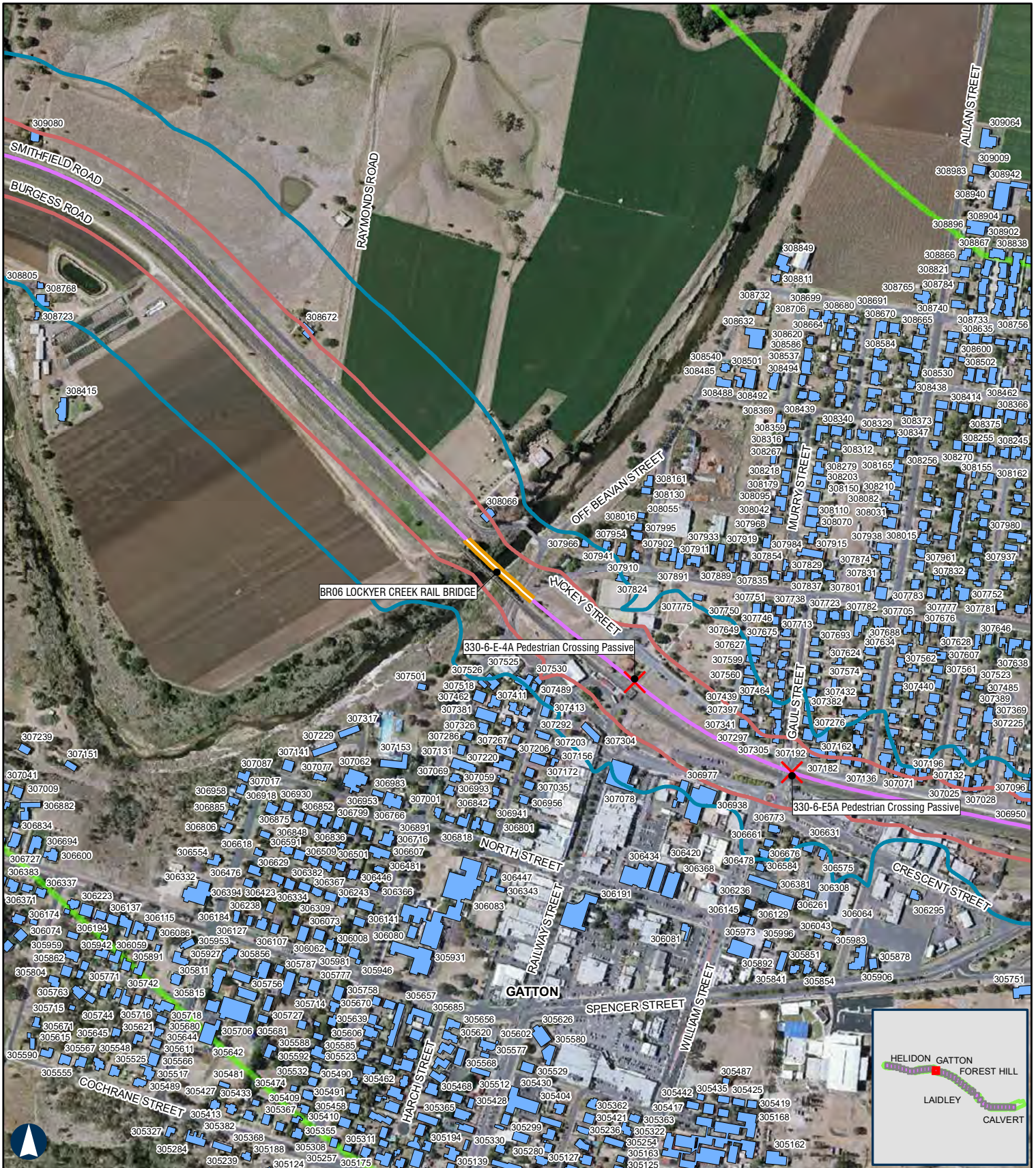
**HELIDON TO CALVERT** Year 2026 Daytime rail noise levels APPENDIX D - Map 13 of 36

<p><b>200 m</b></p> <p>Coordinate System: GDA 1994 MGA Zone 56</p> <p>ARTC makes no representation or warranty and assumes no duty of care or other responsibility to any party as to the completeness, accuracy or suitability of the information contained in this GIS map. The GIS map has been prepared from material provided to ARTC by an external source and ARTC has not taken any steps to verify the completeness, accuracy or suitability of that material.</p> <p>ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information contained within this GIS map.</p> <p>Paper: A4      Scale: 1:7,500          Date: 12-Oct-2020          Author: JG</p>	<ul style="list-style-type: none"> <li><span style="color: red; font-size: 2em;">✕</span> Level Crossings</li> <li><span style="border-bottom: 2px solid black; width: 20px; display: inline-block;"></span> Project Extent</li> <li><span style="border-bottom: 2px solid grey; width: 20px; display: inline-block;"></span> Crossing Loops</li> <li><span style="border-bottom: 2px solid purple; width: 20px; display: inline-block;"></span> Rail Alignment/Centreline</li> <li><span style="border-bottom: 2px solid orange; width: 20px; display: inline-block;"></span> Bridges and Viaducts</li> <li><span style="border-bottom: 2px solid brown; width: 20px; display: inline-block;"></span> Little Liverpool Range tunnel</li> <li><span style="border-bottom: 2px solid green; width: 20px; display: inline-block;"></span> Noise Assessment Area – Upgrading Existing Railway</li> </ul>	<ul style="list-style-type: none"> <li><span style="border-bottom: 2px solid orange; width: 20px; display: inline-block;"></span> Daytime noise criteria LAeq15hr 60dBA New rail corridor</li> <li><span style="border-bottom: 2px solid red; width: 20px; display: inline-block;"></span> Daytime noise criteria LAeq15hr 65dBA upgrading existing rail corridor</li> <li><span style="border-bottom: 2px solid magenta; width: 20px; display: inline-block;"></span> Daytime noise criteria LA max 80dBA New rail corridor</li> <li><span style="border-bottom: 2px solid blue; width: 20px; display: inline-block;"></span> Daytime noise criteria LA max 85dBA upgrading existing rail corridor</li> <li><span style="border: 1px solid blue; width: 10px; height: 10px; display: inline-block;"></span> Receptors</li> </ul>
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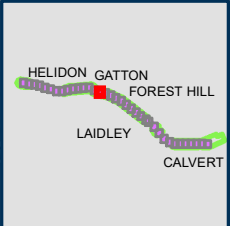
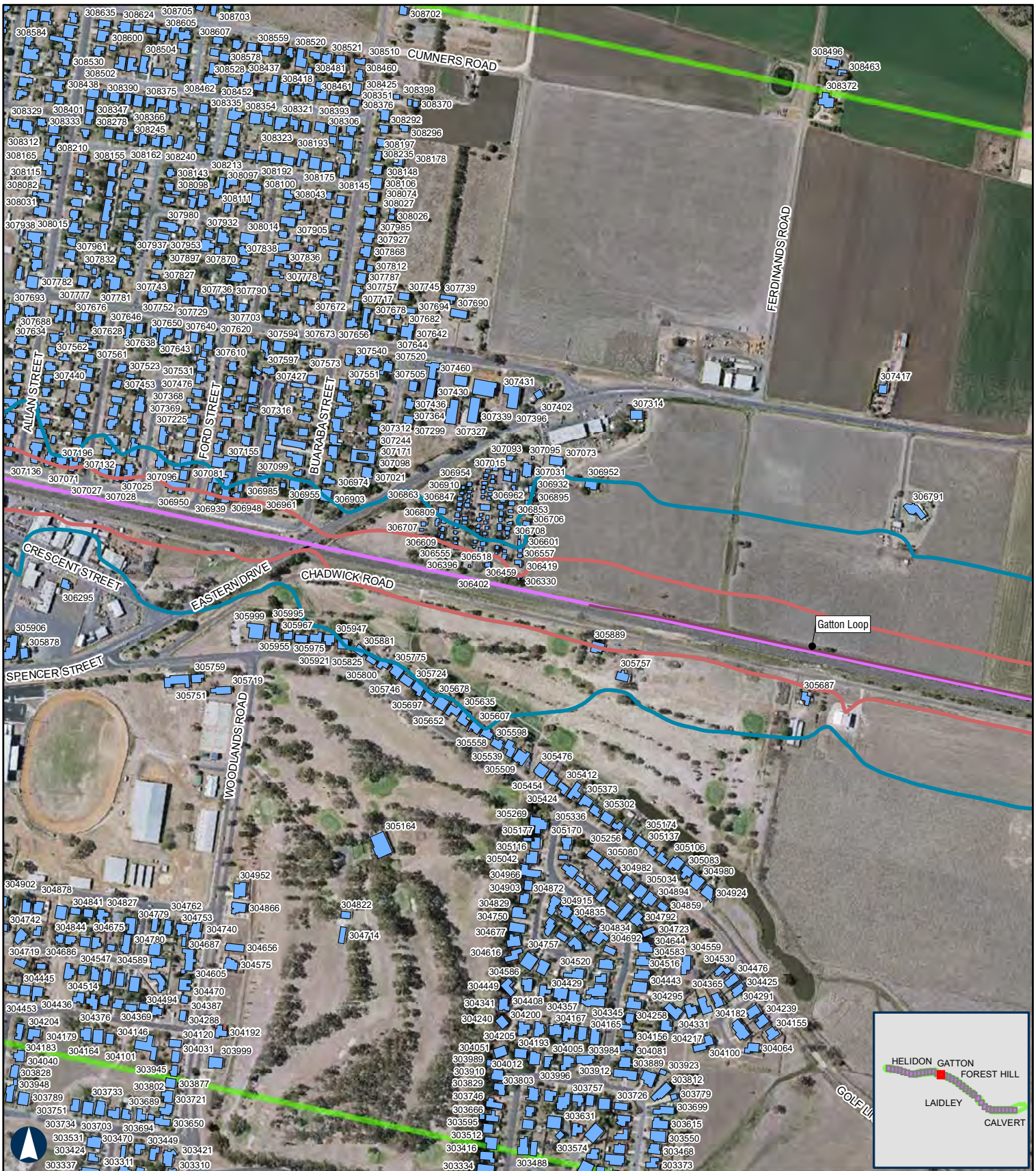
**HELIDON TO CALVERT** Year 2026 Daytime rail noise levels APPENDIX D - Map 14 of 36

<p><b>200 m</b></p> <p>Coordinate System: GDA 1994 MGA Zone 56</p> <p>ARTC makes no representation or warranty and assumes no duty of care or other responsibility to any party as to the completeness, accuracy or suitability of the information contained in this GIS map. The GIS map has been prepared from material provided to ARTC by an external source and ARTC has not taken any steps to verify the completeness, accuracy or suitability of that material.</p> <p>ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information contained within this GIS map.</p> <p>Paper: A4 <span style="margin-left: 50px;">Scale: 1:7,500</span></p> <p>Date: 12-Oct-2020</p> <p>Author: JG</p>	<ul style="list-style-type: none"> <li><span style="color: red; font-size: 2em;">X</span> Level Crossings</li> <li><span style="border-bottom: 2px solid black; width: 20px; display: inline-block;"></span> Project Extent</li> <li><span style="border-bottom: 2px solid brown; width: 20px; display: inline-block;"></span> Crossing Loops</li> <li><span style="border-bottom: 2px solid purple; width: 20px; display: inline-block;"></span> Rail Alignment/Centreline</li> <li><span style="border-bottom: 2px solid orange; width: 20px; display: inline-block;"></span> Bridges and Viaducts</li> <li><span style="border-bottom: 2px solid blue; width: 20px; display: inline-block;"></span> Little Liverpool Range tunnel</li> <li><span style="border-bottom: 2px solid green; width: 20px; display: inline-block;"></span> Noise Assessment Area – Upgrading Existing Railway</li> </ul>	<ul style="list-style-type: none"> <li><span style="border-bottom: 2px solid orange; width: 20px; display: inline-block;"></span> Daytime noise criteria LAeq15hr 60dBA New rail corridor</li> <li><span style="border-bottom: 2px solid brown; width: 20px; display: inline-block;"></span> Daytime noise criteria LAeq15hr 65dBA upgrading existing rail corridor</li> <li><span style="border-bottom: 2px solid purple; width: 20px; display: inline-block;"></span> Daytime noise criteria LA max 80dBA New rail corridor</li> <li><span style="border-bottom: 2px solid blue; width: 20px; display: inline-block;"></span> Daytime noise criteria LA max 85dBA upgrading existing rail corridor</li> <li><span style="background-color: lightblue; width: 10px; height: 10px; display: inline-block;"></span> Receptors</li> </ul>
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Noise contours are based on a set distance above the local terrain level of 2.4m.







**HELIDON TO CALVERT** Year 2026 Daytime rail noise levels APPENDIX D - Map 15 of 36

**200 m**

Coordinate System: GDA 1994 MGA Zone 56

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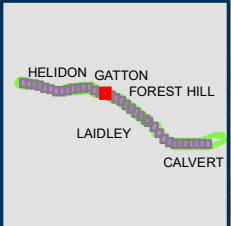
Paper: A4 Scale: 1:7,500  
 Date: 12-Oct-2020  
 Author: JG

- X Level Crossings
  - Project Extent
  - Crossing Loops
  - Rail Alignment/Centreline
  - Bridges and Viaducts
  - Little Liverpool Range tunnel
  - Noise Assessment Area – Upgrading Existing Railway
  - Daytime noise criteria LAeq15hr 60dBA New rail corridor
  - Daytime noise criteria LAeq15hr 65dBA upgrading existing rail corridor
  - Daytime noise criteria LA max 80dBA New rail corridor
  - Daytime noise criteria LA max 85dBA upgrading existing rail corridor
  - Receptors
- Noise contours are based on a set distance above the local terrain level of 2.4m.

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## HELIDON TO CALVERT Year 2026 Daytime rail noise levels

APPENDIX D - Map 16 of 36

200 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:7,500  
 Date: 12-Oct-2020  
 Author: JG

- X Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway
- Daytime noise criteria LAeq15hr 60dBA New rail corridor
- Daytime noise criteria LAeq15hr 65dBA upgrading existing rail corridor
- Daytime noise criteria LA max 80dBA New rail corridor
- Daytime noise criteria LA max 85dBA upgrading existing rail corridor
- Receptors

Noise contours are based on a set distance above the local terrain level of 2.4m.

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# HELIDON TO CALVERT Year 2026 Daytime rail noise levels

200 m

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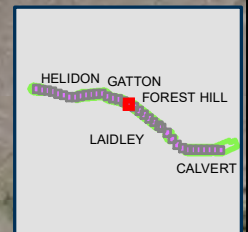
- Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
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- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway
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- Daytime noise criteria LA max 85dBA upgrading existing rail corridor

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## HELIDON TO CALVERT Year 2026 Daytime rail noise levels

APPENDIX D - Map 18 of 36

200 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 12-Oct-2020  
Author: JG

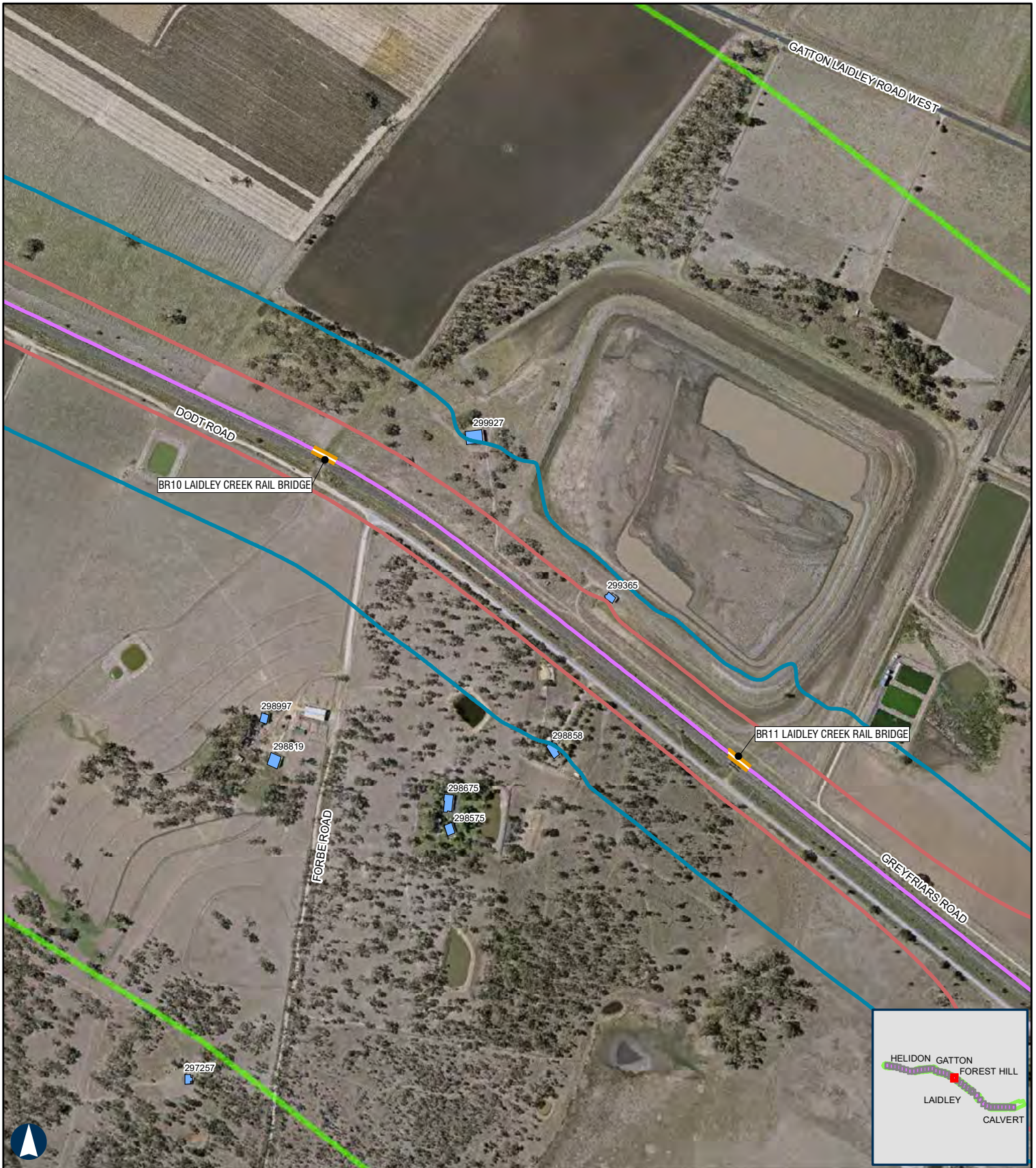
- ✗ Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- ▭ Noise Assessment Area – Upgrading Existing Railway
- Daytime noise criteria LAeq15hr 60dBA New rail corridor
- Daytime noise criteria LAeq15hr 65dBA upgrading existing rail corridor
- Daytime noise criteria LA max 80dBA New rail corridor
- Daytime noise criteria LA max 85dBA upgrading existing rail corridor
- ▭ Receptors

Noise contours are based on a set distance above the local terrain level of 2.4m.

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## HELIDON TO CALVERT Year 2026 Daytime rail noise levels

APPENDIX D - Map 19 of 36

200 m

Coordinate System: GDA 1994 MGA Zone 56

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 Author: JG

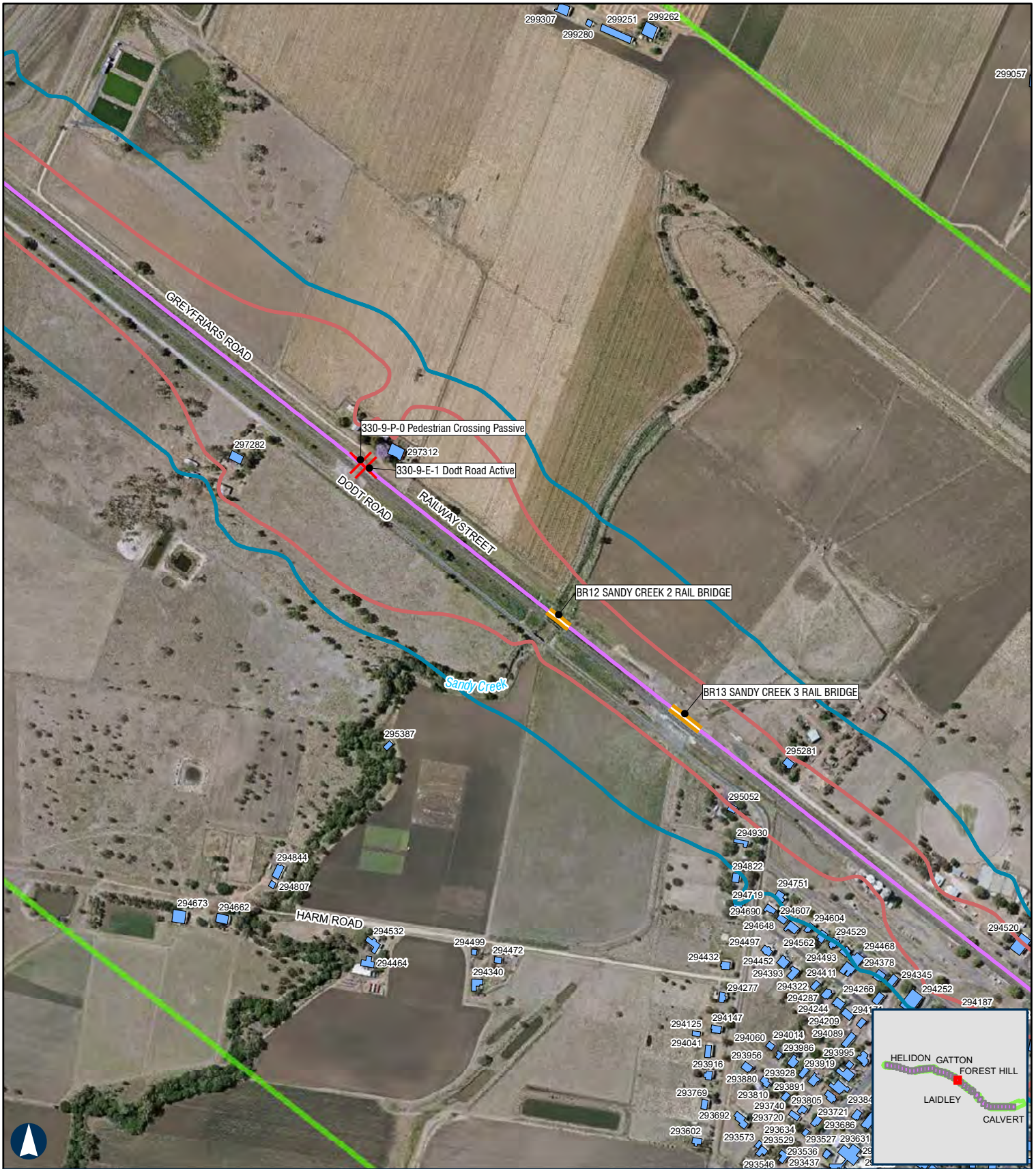
- X Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway
- Receptors
- Daytime noise criteria LAeq15hr 60dBA New rail corridor
- Daytime noise criteria LAeq15hr 65dBA upgrading existing rail corridor
- Daytime noise criteria LA max 80dBA New rail corridor
- Daytime noise criteria LA max 85dBA upgrading existing rail corridor

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# HELIDON TO CALVERT Year 2026 Daytime rail noise levels

# APPENDIX D - Map 20 of 36

200 m

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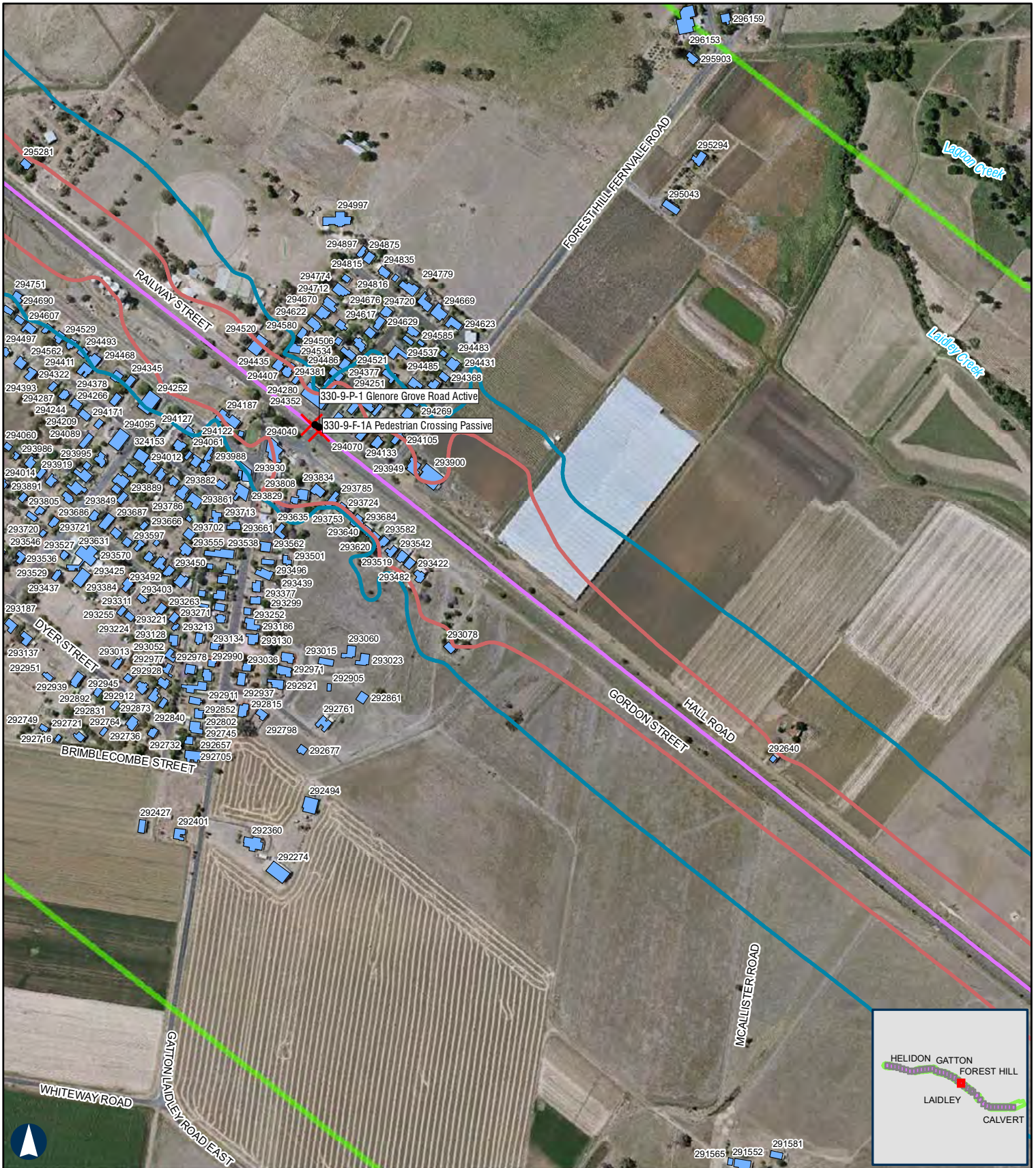
Paper: A4 Scale: 1:7,500  
 Date: 12-Oct-2020  
 Author: JG

- ✕ Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway
- Daytime noise criteria LAeq15hr 60dBA New rail corridor
- Daytime noise criteria LAeq15hr 65dBA upgrading existing rail corridor
- Daytime noise criteria LA max 80dBA New rail corridor
- Daytime noise criteria LA max 85dBA upgrading existing rail corridor
- Receptors

Noise contours are based on a set distance above the local terrain level of 2.4m.

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APPENDIX D - Map 21 of 36

200 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4  
Date: 12-Oct-2020  
Author: JG

Scale: 1:7,500

- ✕ Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway

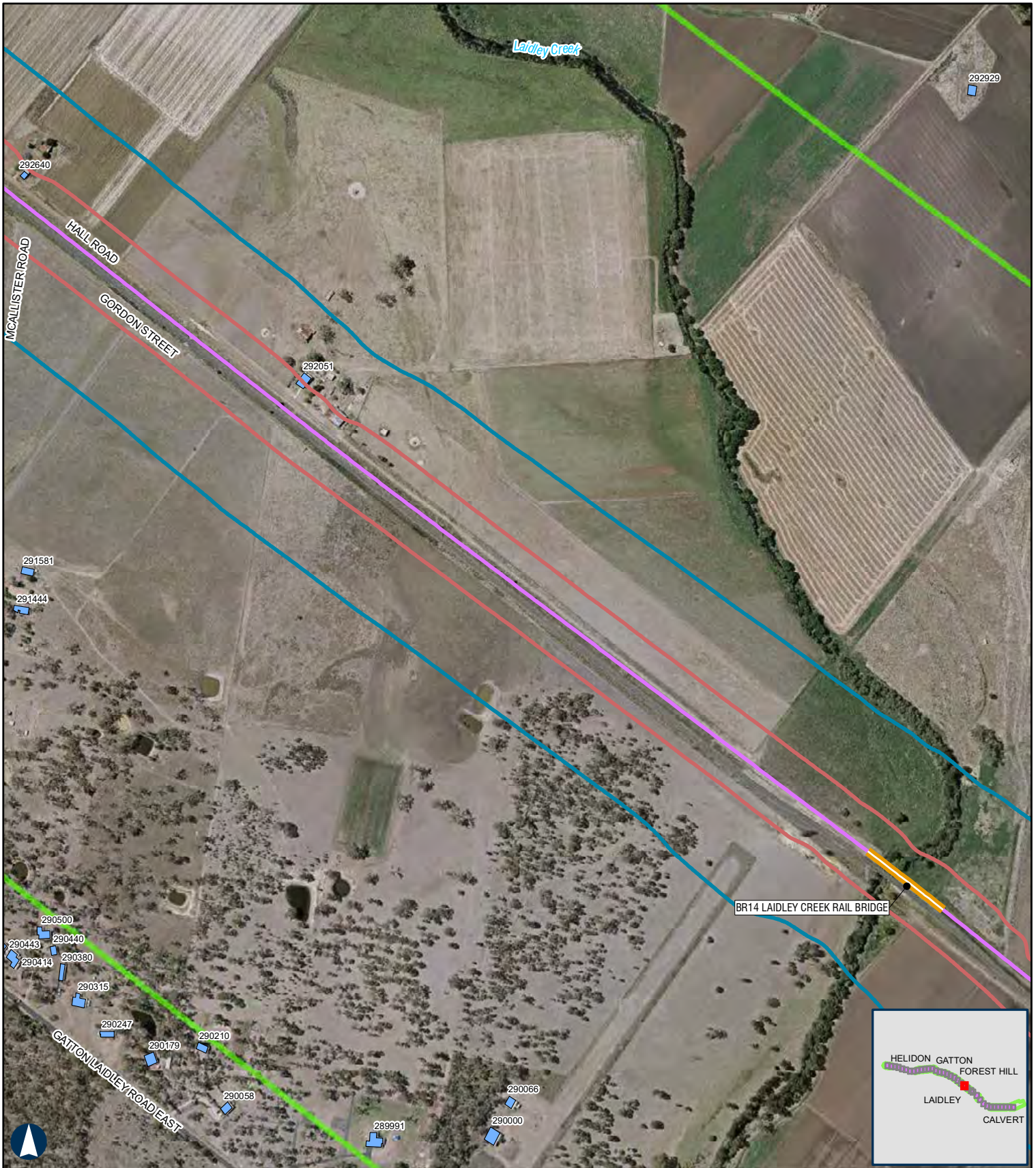
Noise contours are based on a set distance above the local terrain level of 2.4m.

- Daytime noise criteria LAeq15hr 60dBA New rail corridor
- Daytime noise criteria LAeq15hr 65dBA upgrading existing rail corridor
- Daytime noise criteria LA max 80dBA New rail corridor
- Daytime noise criteria LA max 85dBA upgrading existing rail corridor
- Receptors



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# HELIDON TO CALVERT Year 2026 Daytime rail noise levels

200 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:7,500  
 Date: 12-Oct-2020  
 Author: JG

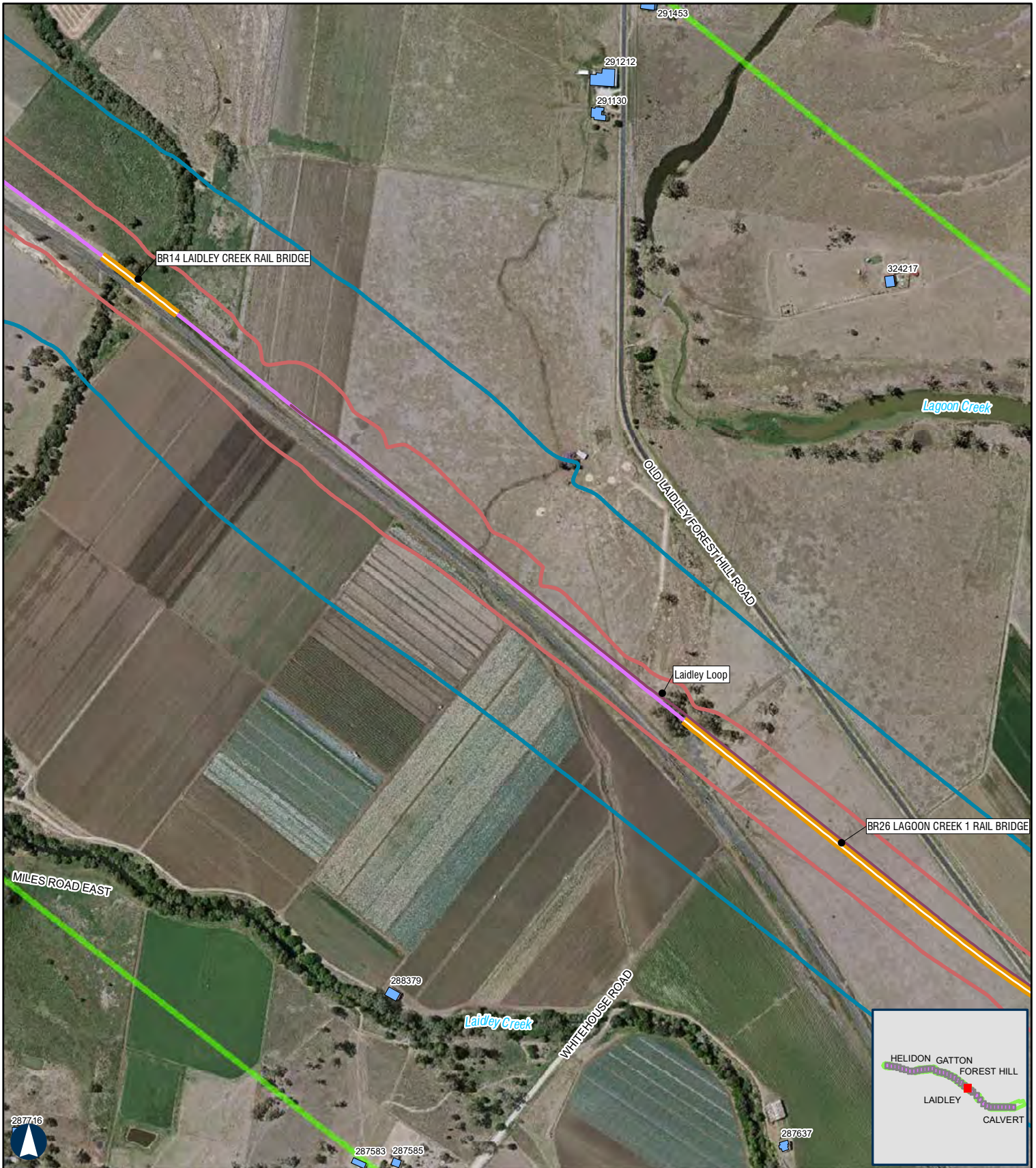
- X Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway
- Daytime noise criteria LAeq15hr 60dBA New rail corridor
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Noise contours are based on a set distance above the local terrain level of 2.4m.



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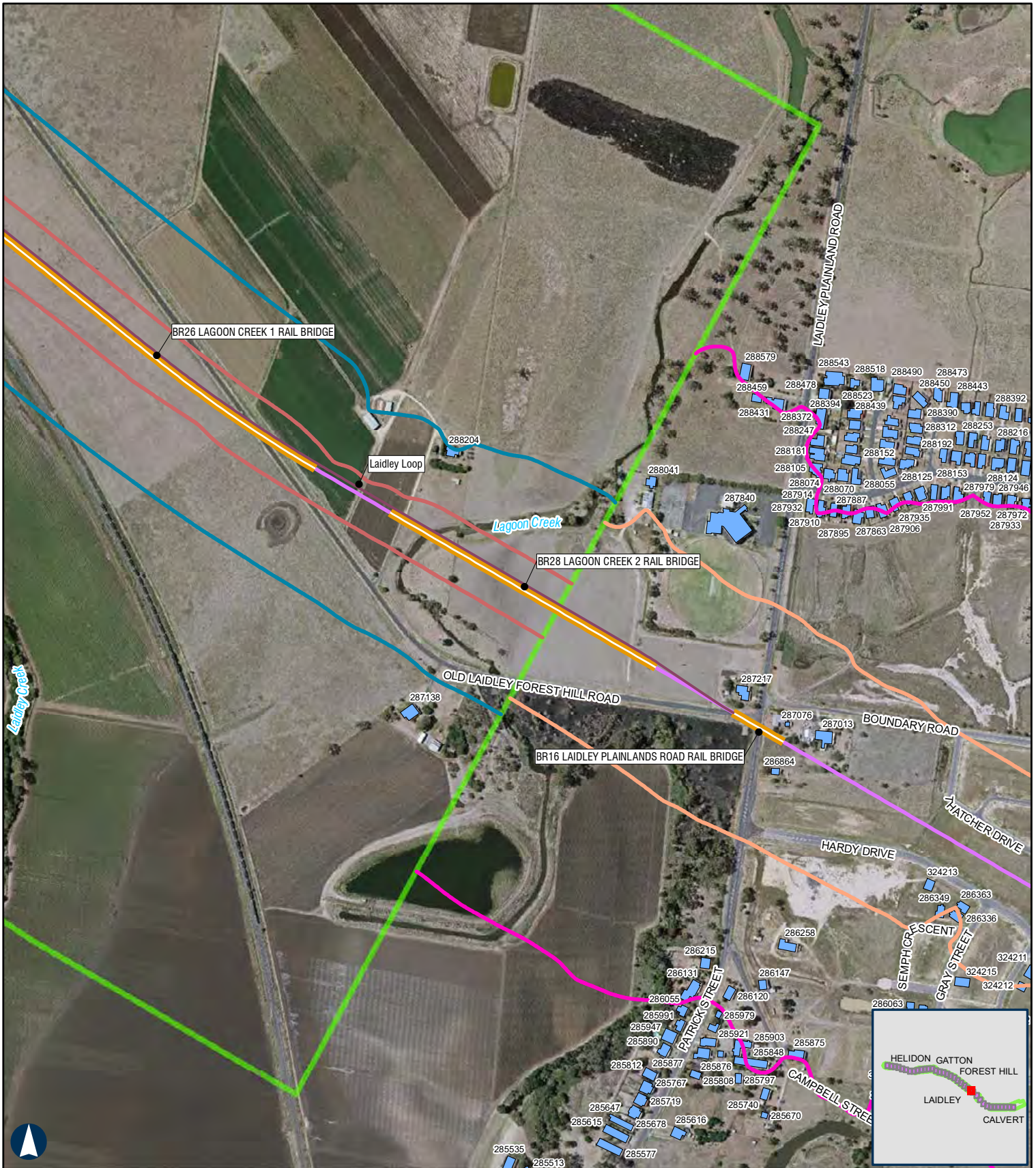
- ✗ Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
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**HELIDON TO CALVERT** Year 2026 Daytime rail noise levels

200 m

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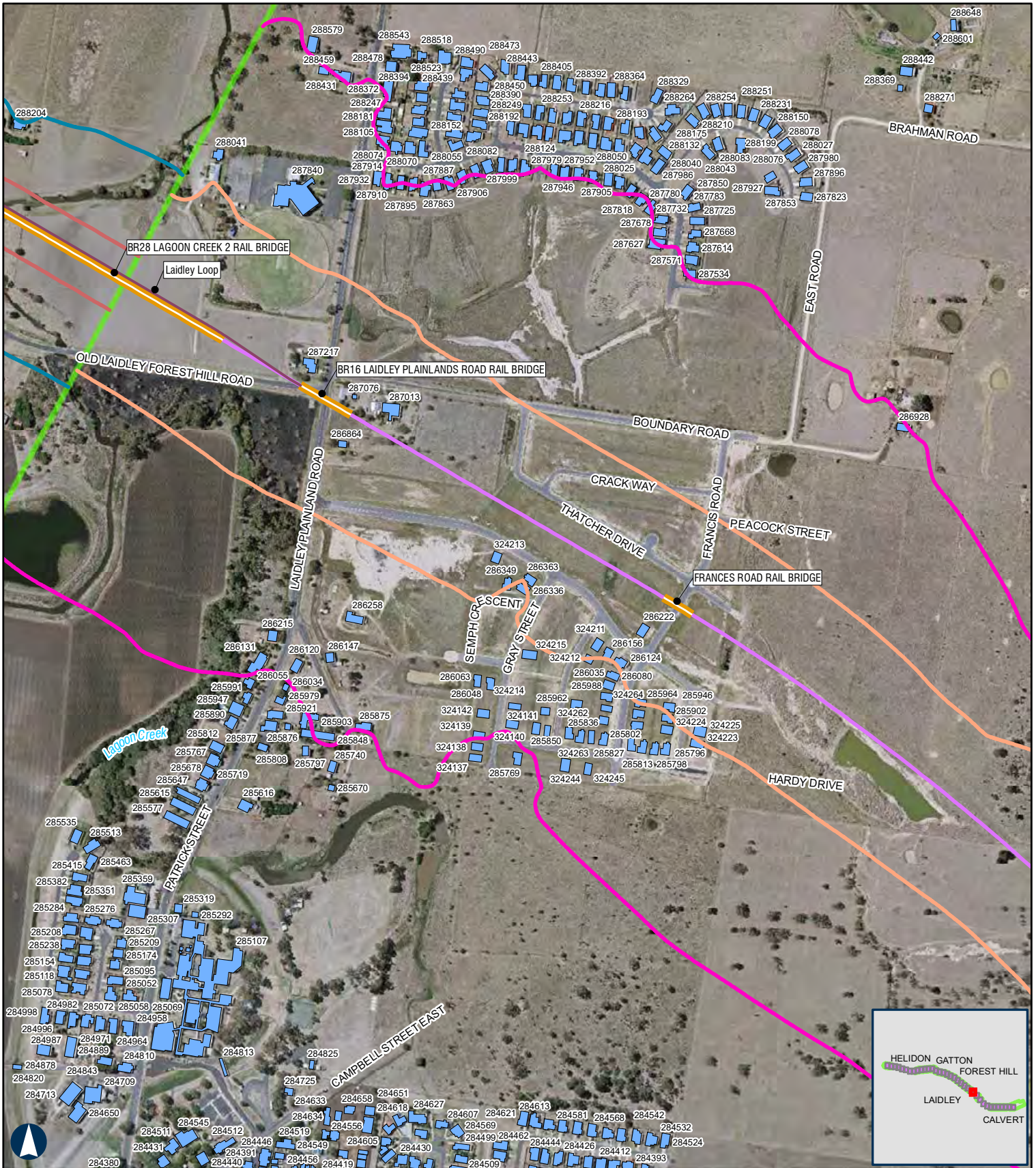
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## HELIDON TO CALVERT Year 2026 Daytime rail noise levels

APPENDIX D - Map 25 of 36

200 m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

Scale: 1:7,500

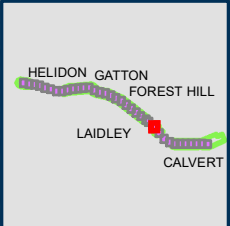
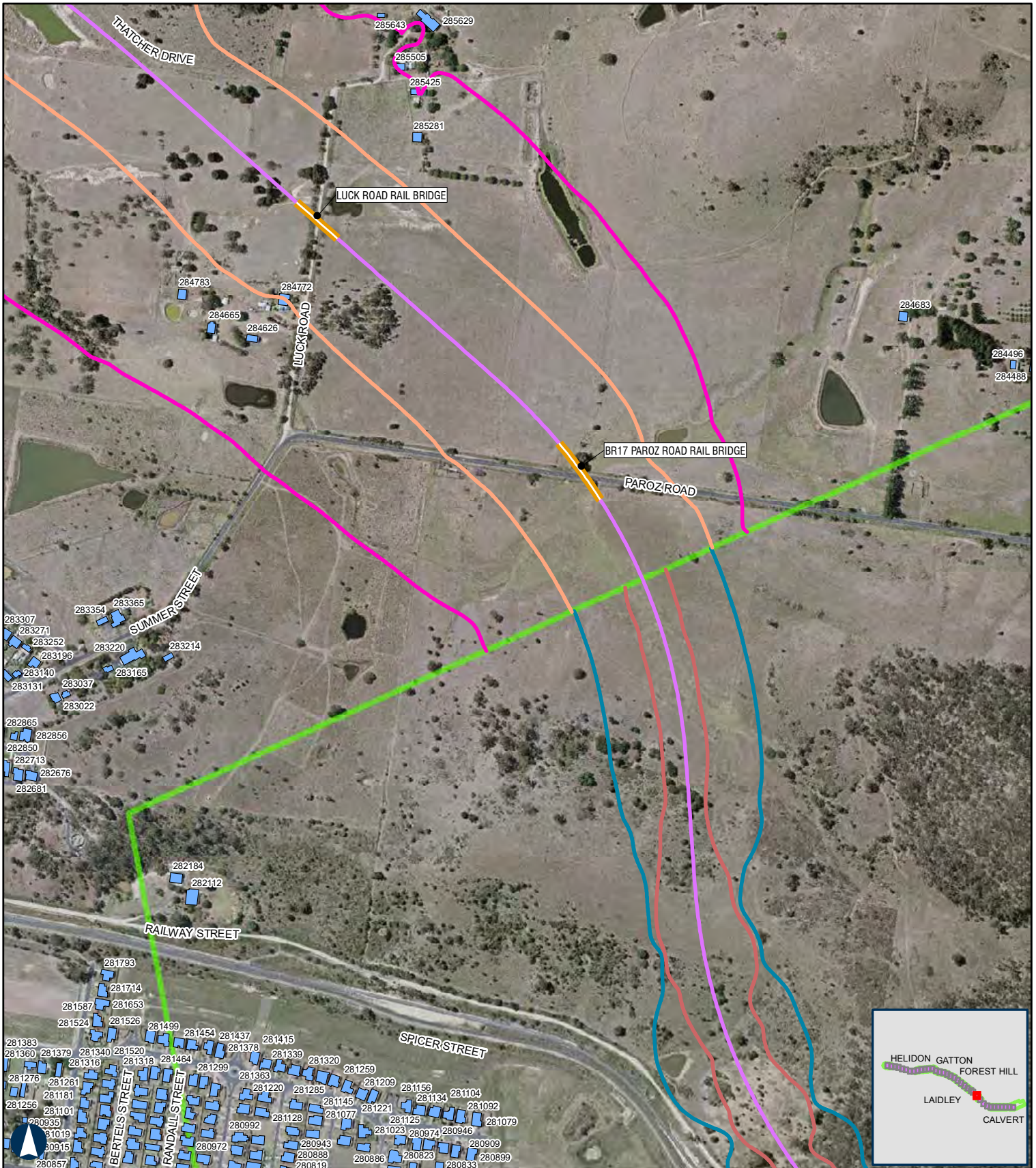
- Level Crossings
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**HELIDON TO CALVERT** Year 2026 Daytime rail noise levels APPENDIX D - Map 26 of 36

**200 m**

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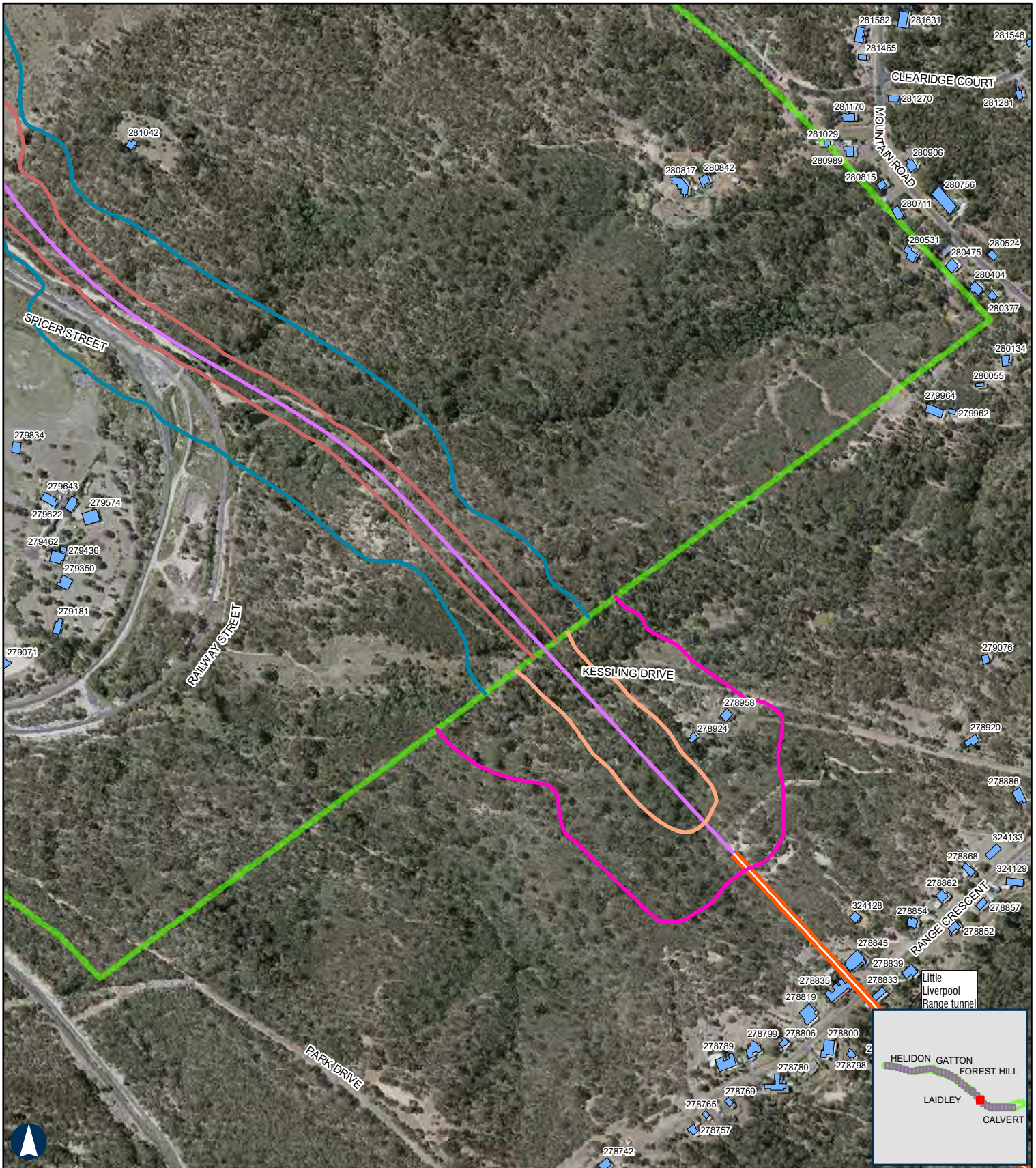
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- X Level Crossings
  - Project Extent
  - Crossing Loops
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  - Little Liverpool Range tunnel
  - Noise Assessment Area – Upgrading Existing Railway
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  - Daytime noise criteria LAeq15hr 65dBA upgrading existing rail corridor
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  - Daytime noise criteria LA max 85dBA upgrading existing rail corridor
  - Receptors
- Noise contours are based on a set distance above the local terrain level of 2.4m.

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## HELIDON TO CALVERT Year 2026 Daytime rail noise levels

## APPENDIX D - Map 27 of 36

200 m

Coordinate System: GDA 1994 MGA Zone 56

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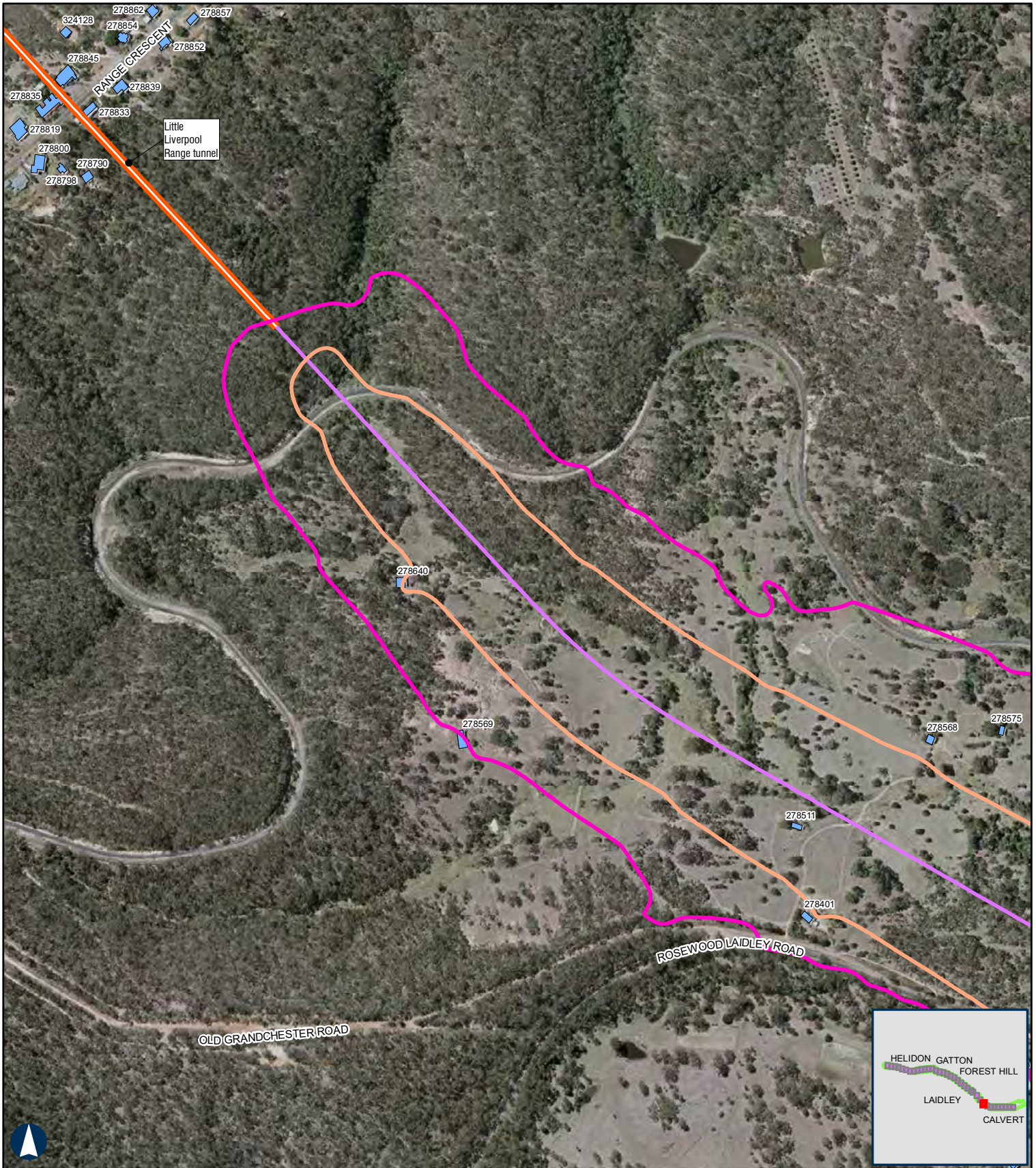
- X Level Crossings
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- Daytime noise criteria LA max 85dBA upgrading existing rail corridor
- Receptors

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# HELIDON TO CALVERT Year 2026 Daytime rail noise levels

**200 m**

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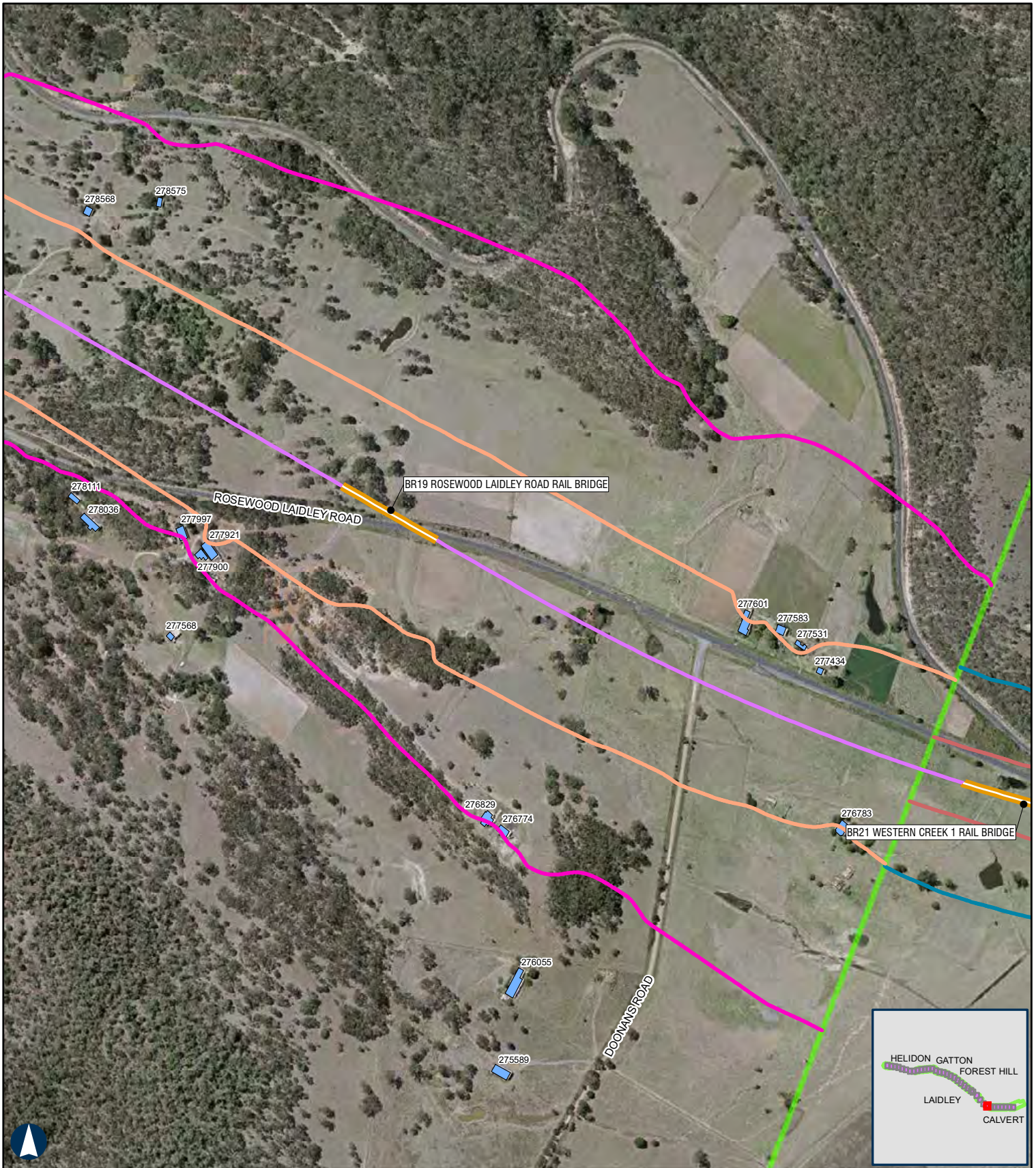
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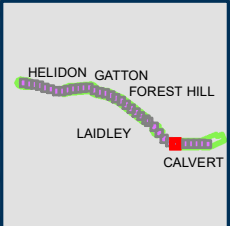
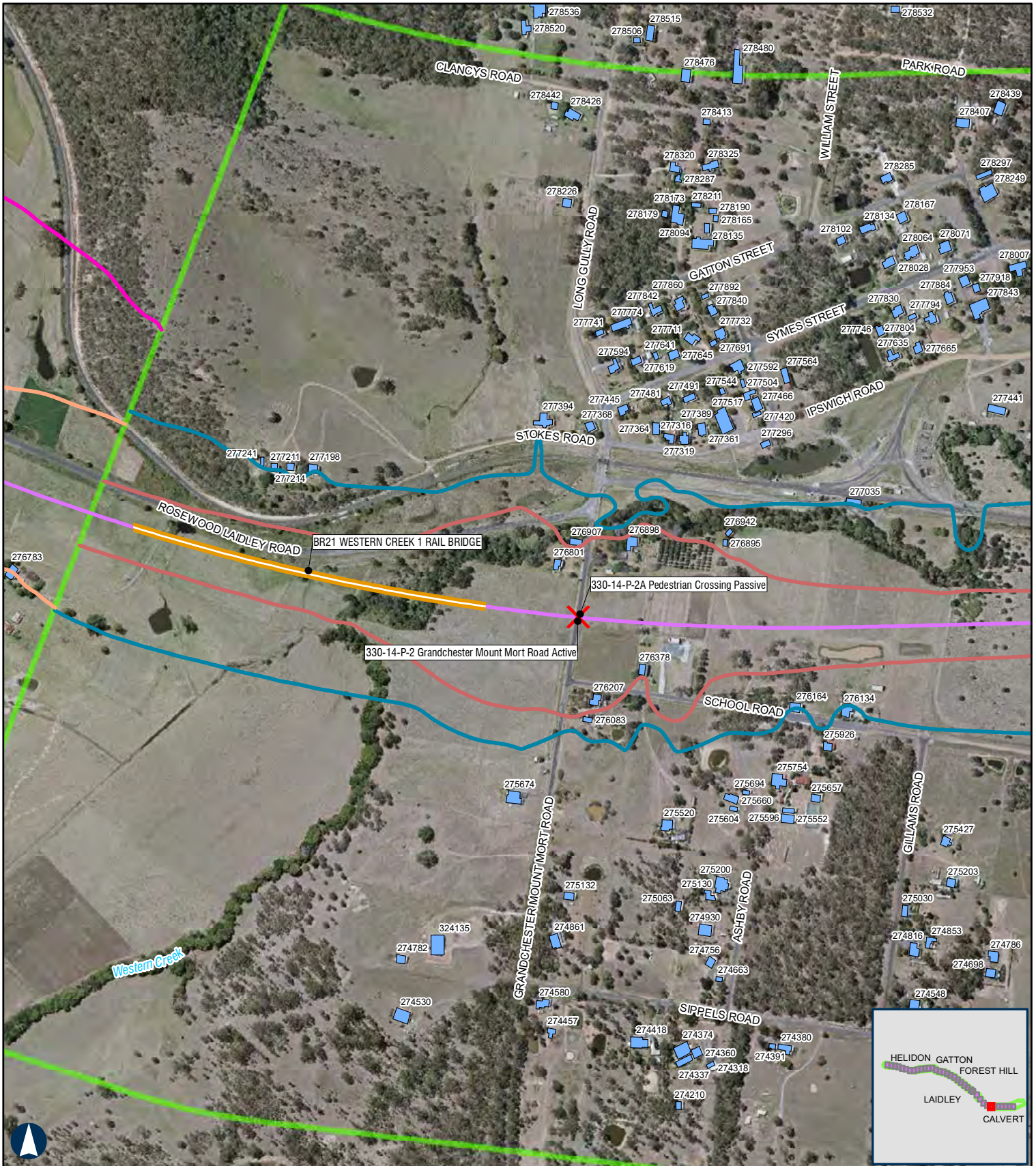
- ✗ Level Crossings
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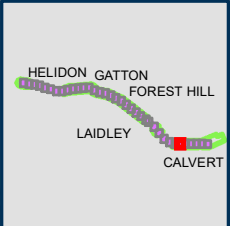


**HELIDON TO CALVERT** Year 2026 Daytime rail noise levels APPENDIX D - Map 30 of 36

<p><b>200 m</b></p> <p>Coordinate System: GDA 1994 MGA Zone 56</p> <p>ARTC makes no representation or warranty and assumes no duty of care or other responsibility to any party as to the completeness, accuracy or suitability of the information contained in this GIS map. The GIS map has been prepared from material provided to ARTC by an external source and ARTC has not taken any steps to verify the completeness, accuracy or suitability of that material.</p> <p>ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information contained within this GIS map.</p> <p>Paper: A4      Scale: 1:7,500          Date: 12-Oct-2020          Author: JG</p>	<ul style="list-style-type: none"> <li><span style="color: red; font-size: 2em;">✕</span> Level Crossings</li> <li><span style="border-bottom: 2px solid black; width: 20px; display: inline-block;"></span> Project Extent</li> <li><span style="border-bottom: 2px solid brown; width: 20px; display: inline-block;"></span> Crossing Loops</li> <li><span style="border-bottom: 2px solid magenta; width: 20px; display: inline-block;"></span> Rail Alignment/Centreline</li> <li><span style="border-bottom: 2px solid orange; width: 20px; display: inline-block;"></span> Bridges and Viaducts</li> <li><span style="border-bottom: 2px solid red; width: 20px; display: inline-block;"></span> Little Liverpool Range tunnel</li> <li><span style="border-bottom: 2px solid green; width: 20px; display: inline-block;"></span> Noise Assessment Area – Upgrading Existing Railway</li> </ul>	<ul style="list-style-type: none"> <li><span style="border-bottom: 2px solid orange; width: 20px; display: inline-block;"></span> Daytime noise criteria LAeq15hr 60dBA New rail corridor</li> <li><span style="border-bottom: 2px solid brown; width: 20px; display: inline-block;"></span> Daytime noise criteria LAeq15hr 65dBA upgrading existing rail corridor</li> <li><span style="border-bottom: 2px solid magenta; width: 20px; display: inline-block;"></span> Daytime noise criteria LA max 80dBA New rail corridor</li> <li><span style="border-bottom: 2px solid blue; width: 20px; display: inline-block;"></span> Daytime noise criteria LA max 85dBA upgrading existing rail corridor</li> <li><span style="border: 1px solid blue; width: 10px; height: 10px; display: inline-block;"></span> Receptors</li> </ul>	<p><b>ARTC</b> <i>InlandRail</i></p> <p>The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation, in partnership with the private sector.</p>
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H:\Projects-SLR\620-BNE\620-BNE\620-12209 Inland Rail\06 SLR Data\06 CADGIS\ArcGIS\H2C\SLR62012209\_H2C\_Day 2026.mxd  
 Service Layer Credits: Imagery ARTC 2015 and 2017



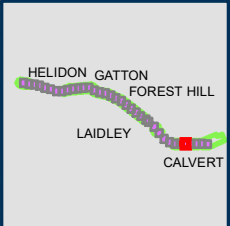
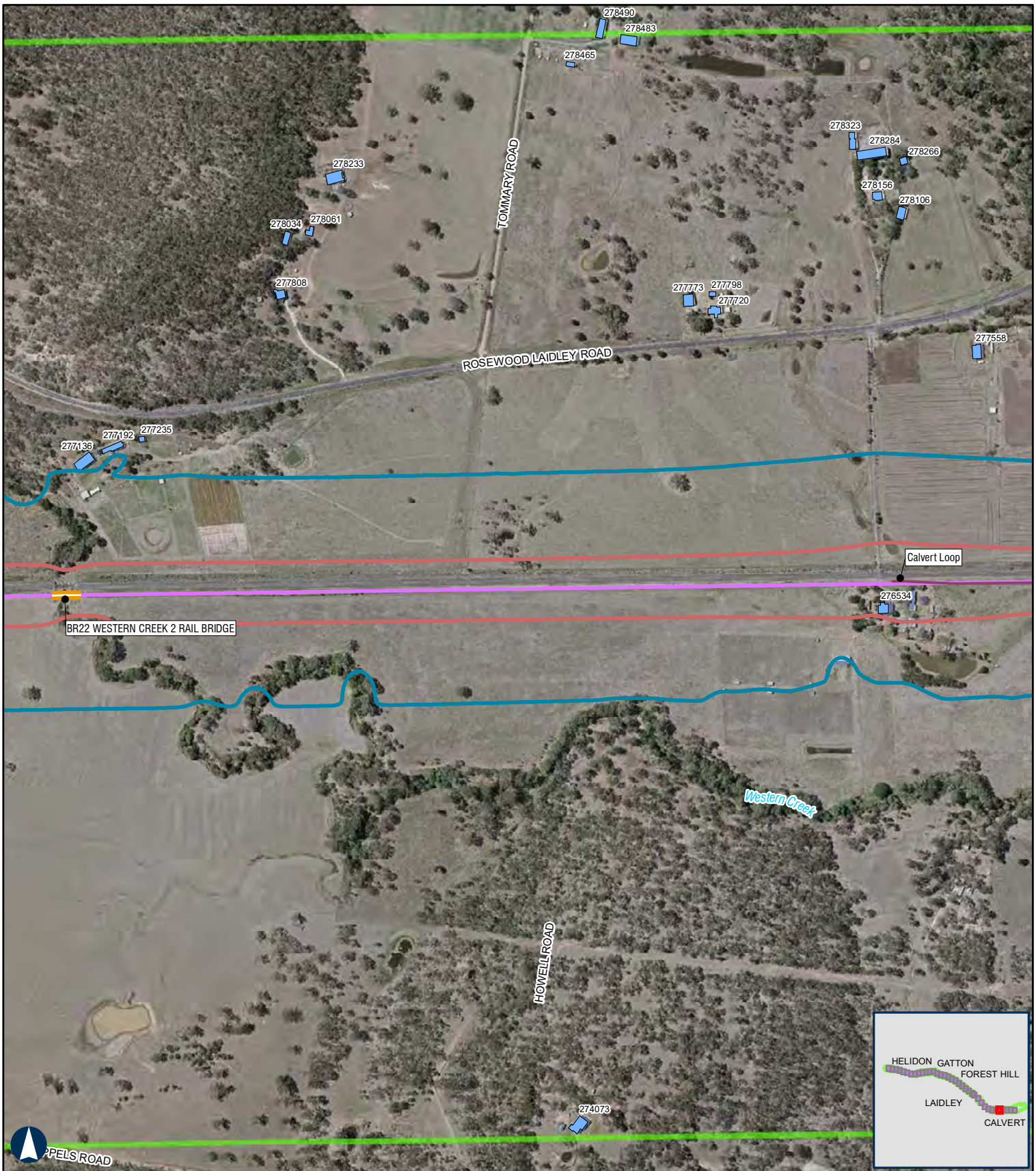


**HELIDON TO CALVERT** Year 2026 Daytime rail noise levels APPENDIX D - Map 31 of 36

<p><b>200 m</b></p> <p>Coordinate System: GDA 1994 MGA Zone 56</p> <p>ARTC makes no representation or warranty and assumes no duty of care or other responsibility to any party as to the completeness, accuracy or suitability of the information contained in this GIS map. The GIS map has been prepared from material provided to ARTC by an external source and ARTC has not taken any steps to verify the completeness, accuracy or suitability of that material.</p> <p>ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information contained within this GIS map.</p> <p>Paper: A4 Date: 12-Oct-2020 Author: JG</p>	<ul style="list-style-type: none"> <li><span style="color: red; font-size: 2em;">X</span> Level Crossings</li> <li><span style="border-bottom: 2px solid black; width: 20px; display: inline-block;"></span> Project Extent</li> <li><span style="border-bottom: 2px solid brown; width: 20px; display: inline-block;"></span> Crossing Loops</li> <li><span style="border-bottom: 2px solid purple; width: 20px; display: inline-block;"></span> Rail Alignment/Centreline</li> <li><span style="border-bottom: 2px solid orange; width: 20px; display: inline-block;"></span> Bridges and Viaducts</li> <li><span style="border-bottom: 2px solid red; width: 20px; display: inline-block;"></span> Little Liverpool Range tunnel</li> <li><span style="border-bottom: 2px solid green; width: 20px; display: inline-block;"></span> Noise Assessment Area – Upgrading Existing Railway</li> </ul>	<ul style="list-style-type: none"> <li><span style="border-bottom: 2px solid orange; width: 20px; display: inline-block;"></span> Daytime noise criteria LAeq15hr 60dBA New rail corridor</li> <li><span style="border-bottom: 2px solid brown; width: 20px; display: inline-block;"></span> Daytime noise criteria LAeq15hr 65dBA upgrading existing rail corridor</li> <li><span style="border-bottom: 2px solid purple; width: 20px; display: inline-block;"></span> Daytime noise criteria LA max 80dBA New rail corridor</li> <li><span style="border-bottom: 2px solid blue; width: 20px; display: inline-block;"></span> Daytime noise criteria LA max 85dBA upgrading existing rail corridor</li> <li><span style="border: 1px solid blue; width: 10px; height: 10px; display: inline-block;"></span> Receptors</li> </ul>	<p>Noise contours are based on a set distance above the local terrain level of 2.4m.</p>
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## HELIDON TO CALVERT Year 2026 Daytime rail noise levels

APPENDIX D - Map 32 of 36

200 m

Coordinate System: GDA 1994 MGA Zone 56

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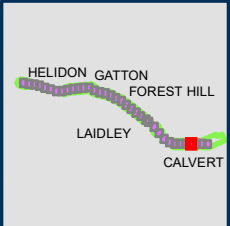
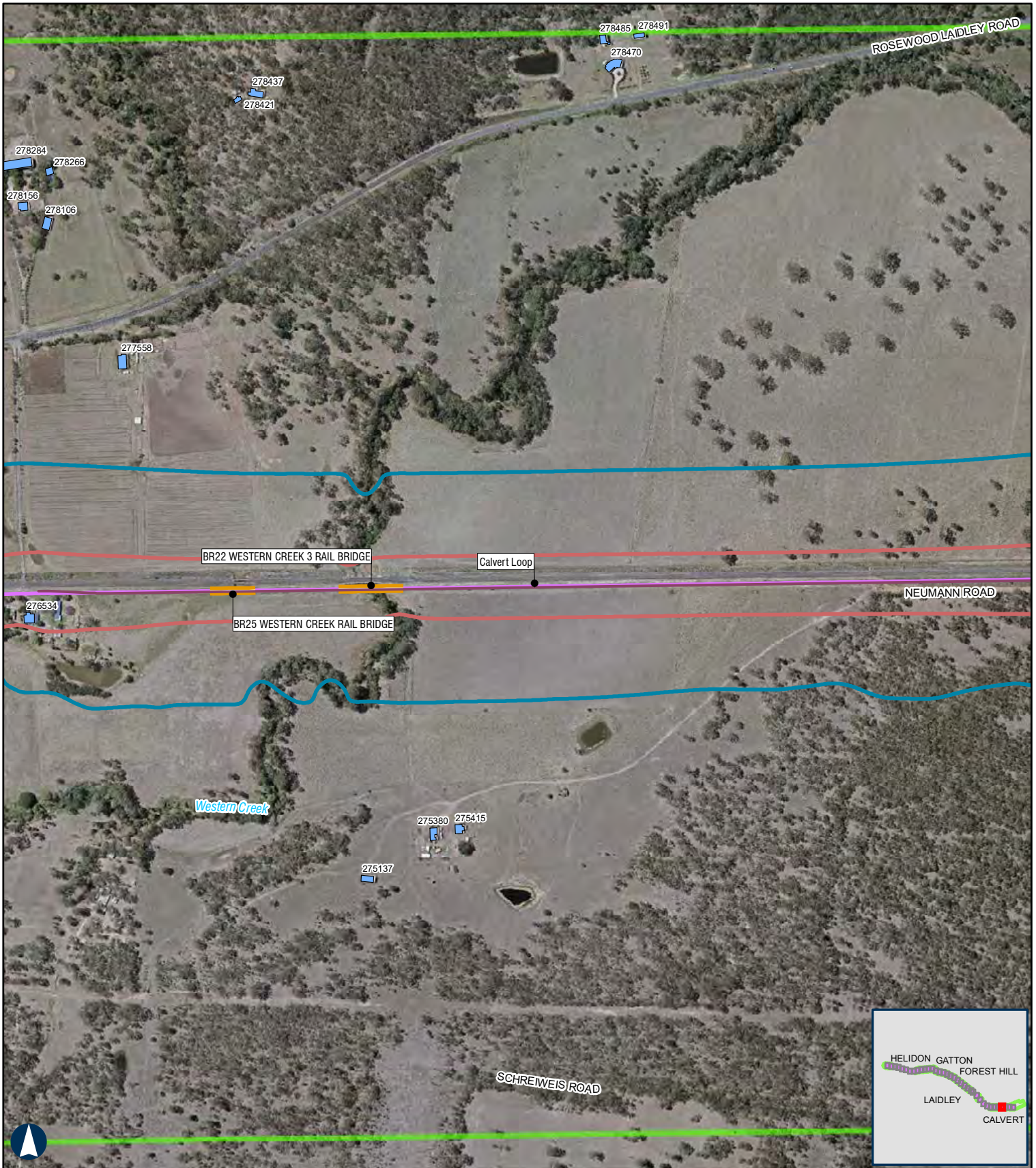
- Level Crossings
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- Crossing Loops
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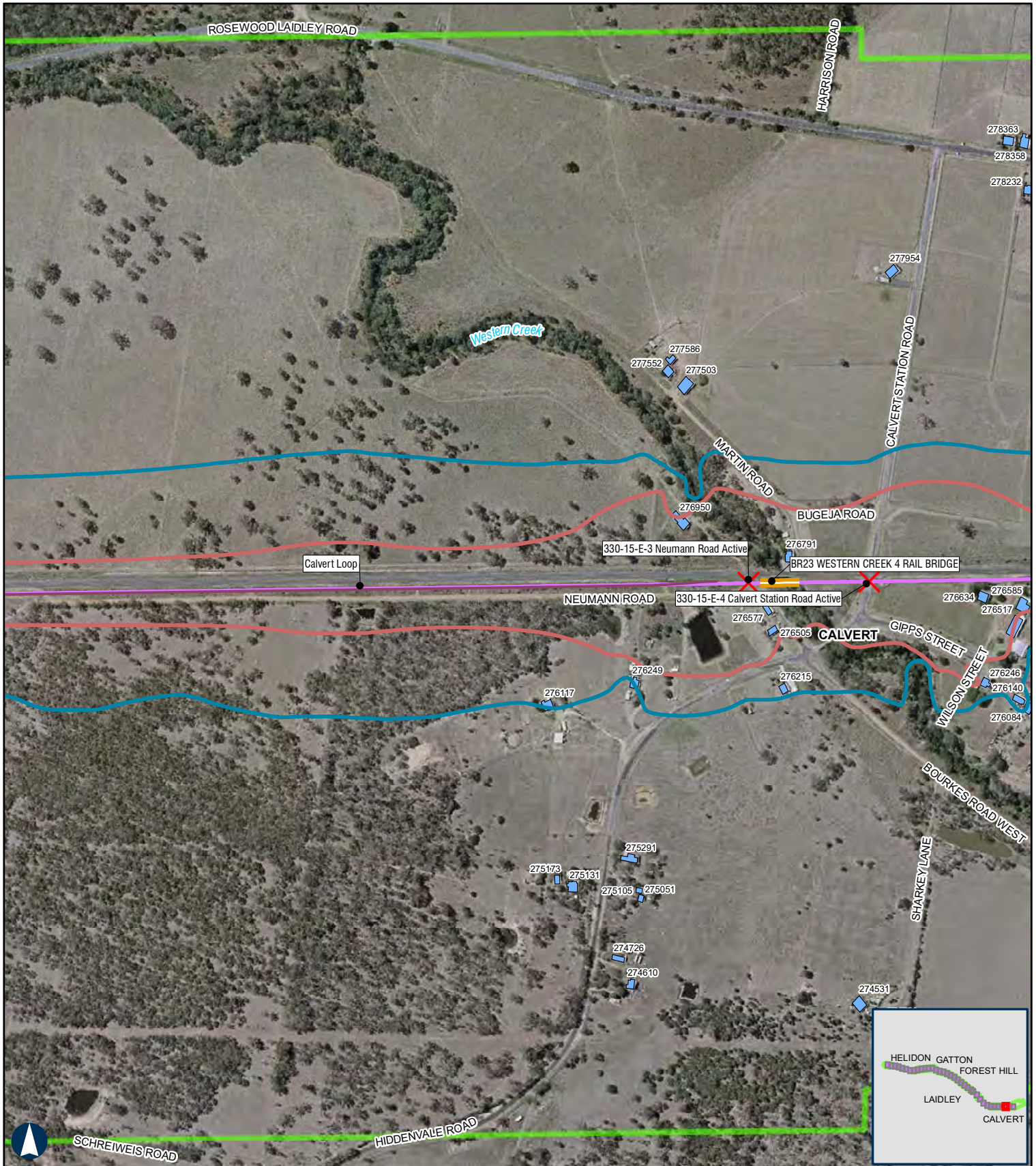
**HELIDON TO CALVERT** Year 2026 Daytime rail noise levels APPENDIX D - Map 33 of 36

<p><b>200 m</b></p> <p>Coordinate System: GDA 1994 MGA Zone 56</p> <p>ARTC makes no representation or warranty and assumes no duty of care or other responsibility to any party as to the completeness, accuracy or suitability of the information contained in this GIS map. The GIS map has been prepared from material provided to ARTC by an external source and ARTC has not taken any steps to verify the completeness, accuracy or suitability of that material.</p> <p>ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information contained within this GIS map.</p> <p>Paper: A4      Scale: 1:7,500          Date: 12-Oct-2020          Author: JG</p>	<ul style="list-style-type: none"> <li><span style="color: red; font-size: 2em;">✕</span> Level Crossings</li> <li><span style="border-bottom: 2px solid black; width: 20px; display: inline-block;"></span> Project Extent</li> <li><span style="border-bottom: 2px solid brown; width: 20px; display: inline-block;"></span> Crossing Loops</li> <li><span style="border-bottom: 2px solid purple; width: 20px; display: inline-block;"></span> Rail Alignment/Centreline</li> <li><span style="border-bottom: 2px solid orange; width: 20px; display: inline-block;"></span> Bridges and Viaducts</li> <li><span style="border-bottom: 2px solid red; width: 20px; display: inline-block;"></span> Little Liverpool Range tunnel</li> <li><span style="border: 2px solid green; width: 20px; display: inline-block;"></span> Noise Assessment Area – Upgrading Existing Railway</li> </ul> <p style="border: 1px solid black; padding: 2px; font-size: 0.8em;">Noise contours are based on a set distance above the local terrain level of 2.4m.</p>	<ul style="list-style-type: none"> <li><span style="border-bottom: 2px solid orange; width: 20px; display: inline-block;"></span> Daytime noise criteria LAeq15hr 60dBA New rail corridor</li> <li><span style="border-bottom: 2px solid brown; width: 20px; display: inline-block;"></span> Daytime noise criteria LAeq15hr 65dBA upgrading existing rail corridor</li> <li><span style="border-bottom: 2px solid pink; width: 20px; display: inline-block;"></span> Daytime noise criteria LA max 80dBA New rail corridor</li> <li><span style="border-bottom: 2px solid blue; width: 20px; display: inline-block;"></span> Daytime noise criteria LA max 85dBA upgrading existing rail corridor</li> <li><span style="border: 1px solid blue; width: 10px; height: 10px; display: inline-block;"></span> Receptors</li> </ul>
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# HELIDON TO CALVERT Year 2026 Daytime rail noise levels

APPENDIX D - Map 34 of 36

200 m

Coordinate System: GDA 1994 MGA Zone 56

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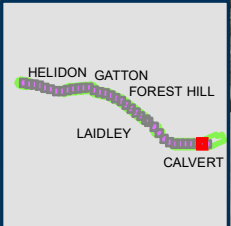
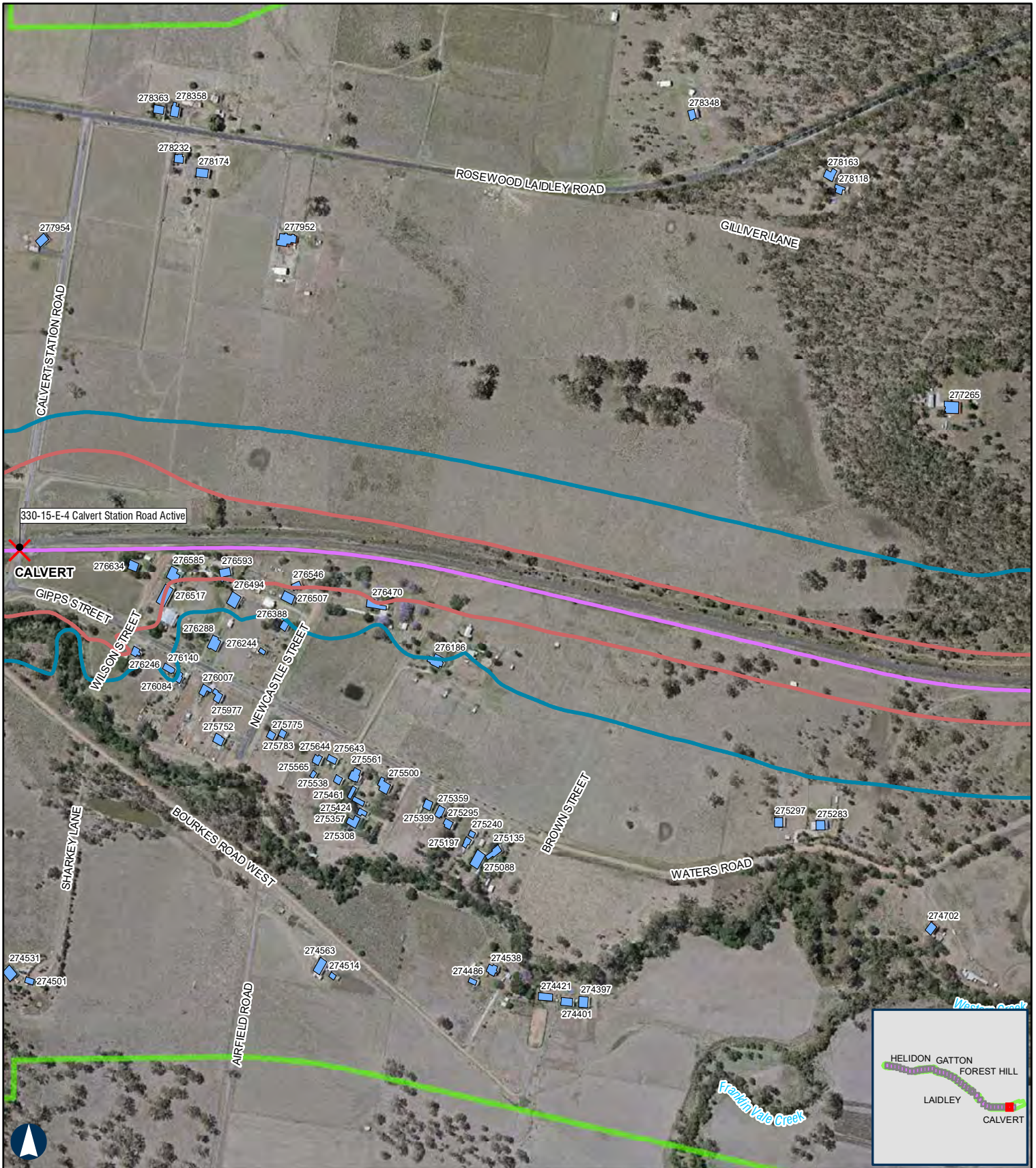
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- Project Extent
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## HELIDON TO CALVERT Year 2026 Daytime rail noise levels

APPENDIX D - Map 35 of 36

200 m

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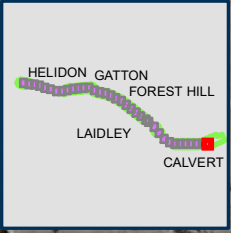
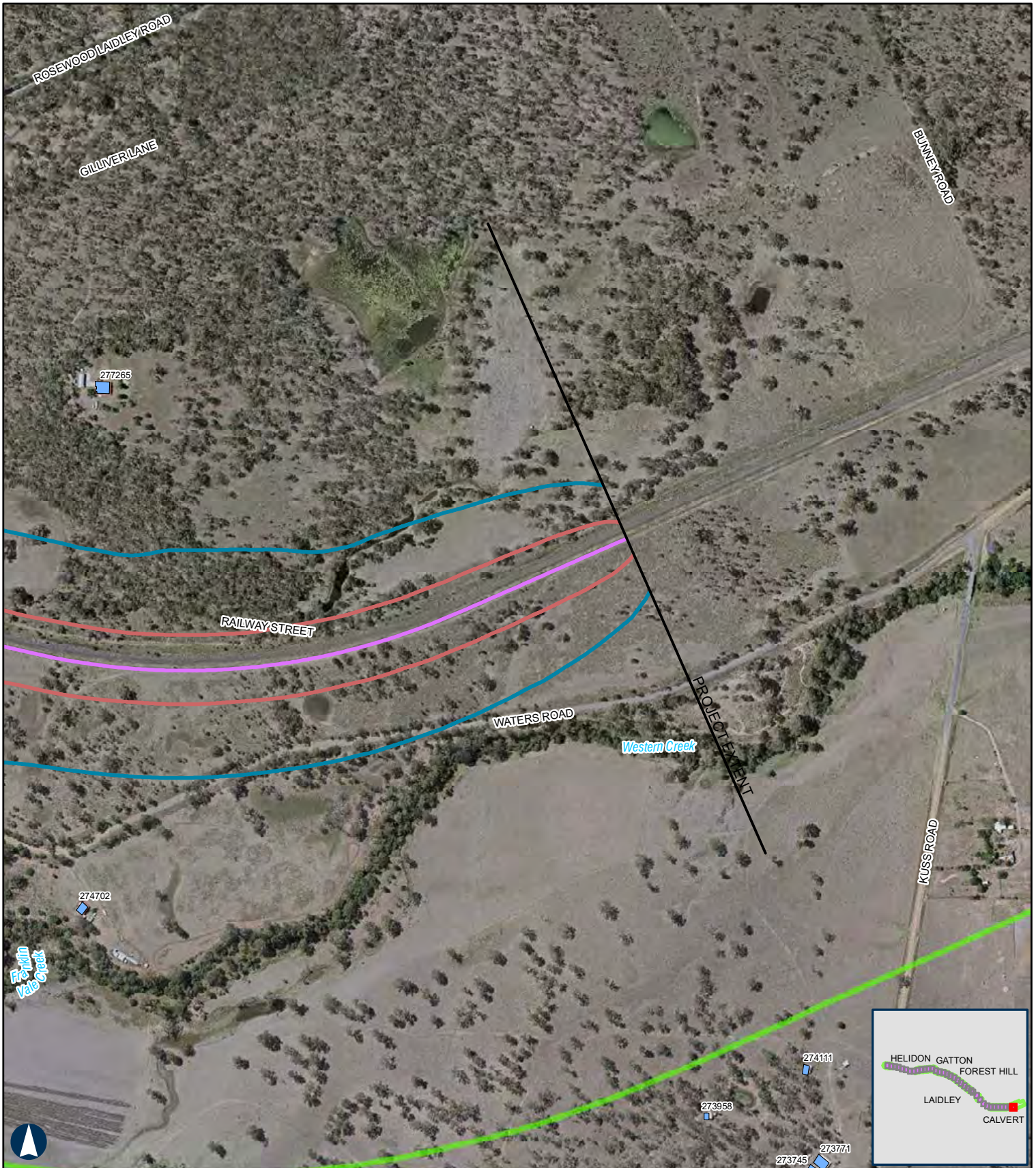
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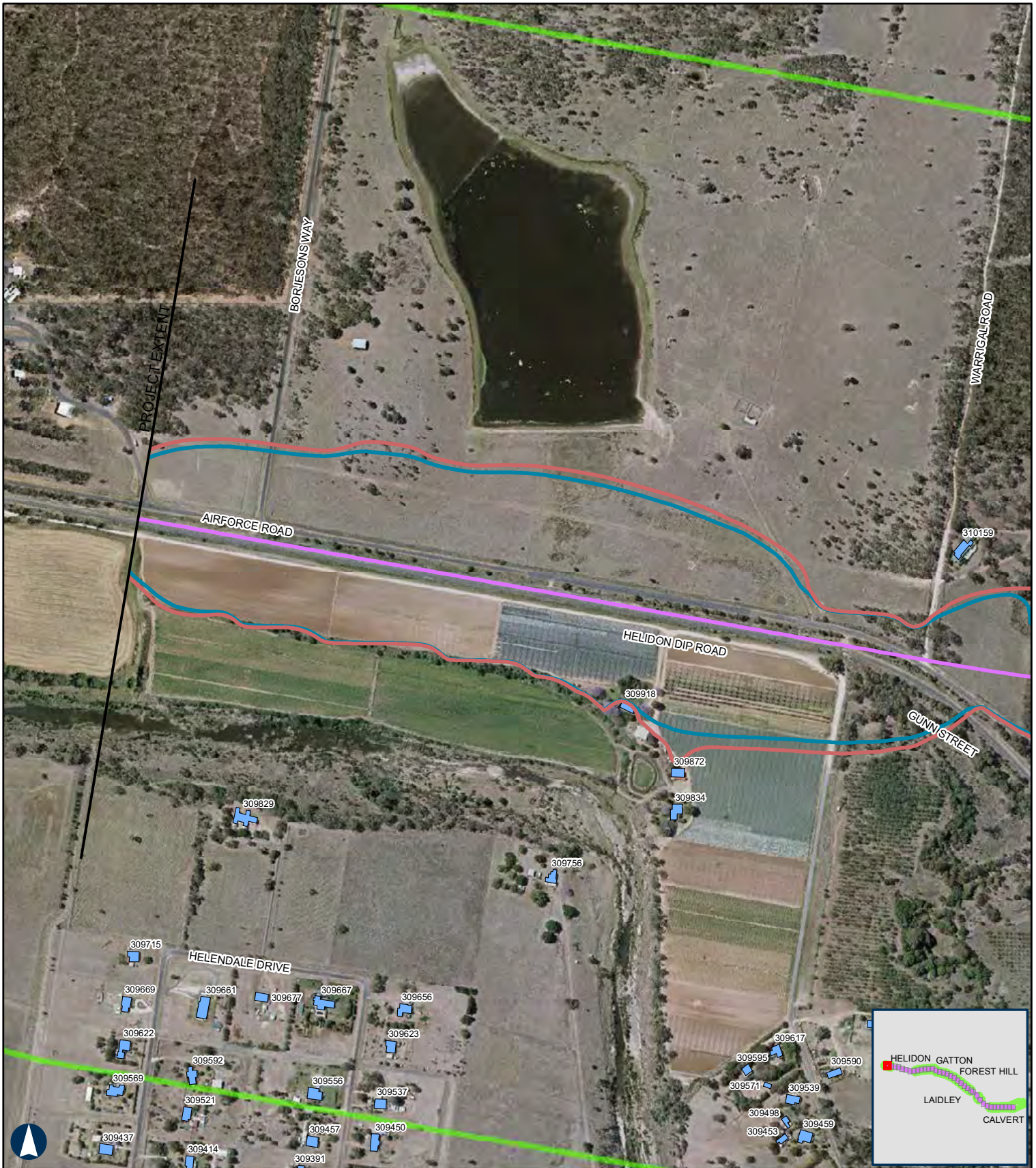


**HELIDON TO CALVERT** Year 2026 Daytime rail noise levels APPENDIX D - Map 36 of 36

<p><b>200 m</b></p> <p>Coordinate System: GDA 1994 MGA Zone 56</p> <p>ARTC makes no representation or warranty and assumes no duty of care or other responsibility to any party as to the completeness, accuracy or suitability of the information contained in this GIS map. The GIS map has been prepared from material provided to ARTC by an external source and ARTC has not taken any steps to verify the completeness, accuracy or suitability of that material.</p> <p>ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information contained within this GIS map.</p> <p>Paper: A4      Scale: 1:7,500          Date: 12-Oct-2020          Author: JG</p>	<ul style="list-style-type: none"> <li><span style="color: red;">✗</span> Level Crossings</li> <li><span style="border-bottom: 1px solid black; width: 20px; display: inline-block;"></span> Project Extent</li> <li><span style="border-bottom: 1px solid grey; width: 20px; display: inline-block;"></span> Crossing Loops</li> <li><span style="border-bottom: 1px solid magenta; width: 20px; display: inline-block;"></span> Rail Alignment/Centreline</li> <li><span style="border-bottom: 1px solid orange; width: 20px; display: inline-block;"></span> Bridges and Viaducts</li> <li><span style="border-bottom: 1px solid brown; width: 20px; display: inline-block;"></span> Little Liverpool Range tunnel</li> <li><span style="border: 1px solid green; width: 20px; display: inline-block;"></span> Noise Assessment Area – Upgrading Existing Railway</li> </ul> <p style="border: 1px solid black; padding: 2px; font-size: small;">Noise contours are based on a set distance above the local terrain level of 2.4m.</p>	<ul style="list-style-type: none"> <li><span style="border-bottom: 1px solid orange; width: 20px; display: inline-block;"></span> Daytime noise criteria LAeq15hr 60dBA New rail corridor</li> <li><span style="border-bottom: 1px solid red; width: 20px; display: inline-block;"></span> Daytime noise criteria LAeq15hr 65dBA upgrading existing rail corridor</li> <li><span style="border-bottom: 1px solid magenta; width: 20px; display: inline-block;"></span> Daytime noise criteria LA max 80dBA New rail corridor</li> <li><span style="border-bottom: 1px solid cyan; width: 20px; display: inline-block;"></span> Daytime noise criteria LA max 85dBA upgrading existing rail corridor</li> <li><span style="color: blue;">■</span> Receptors</li> </ul>
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## HELIDON TO CALVERT Year 2026 Night-time rail noise levels

APPENDIX D - Map 1 of 36

200 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:7,500  
Date: 12-Oct-2020  
Author: JG

- Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway

Noise contours are based on a set distance above the local terrain level of 2.4m.

- Night-time noise criteria LAeq9hr 55dBA New rail corridor
- Night-time noise criteria LAeq9hr 60dBA Redevelopment existing rail corridor
- Night-time noise criteria LA max 80dBA New rail corridor
- Night-time noise criteria LA max 85dBA Redevelopment existing rail corridor
- Receptors

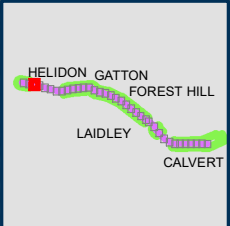


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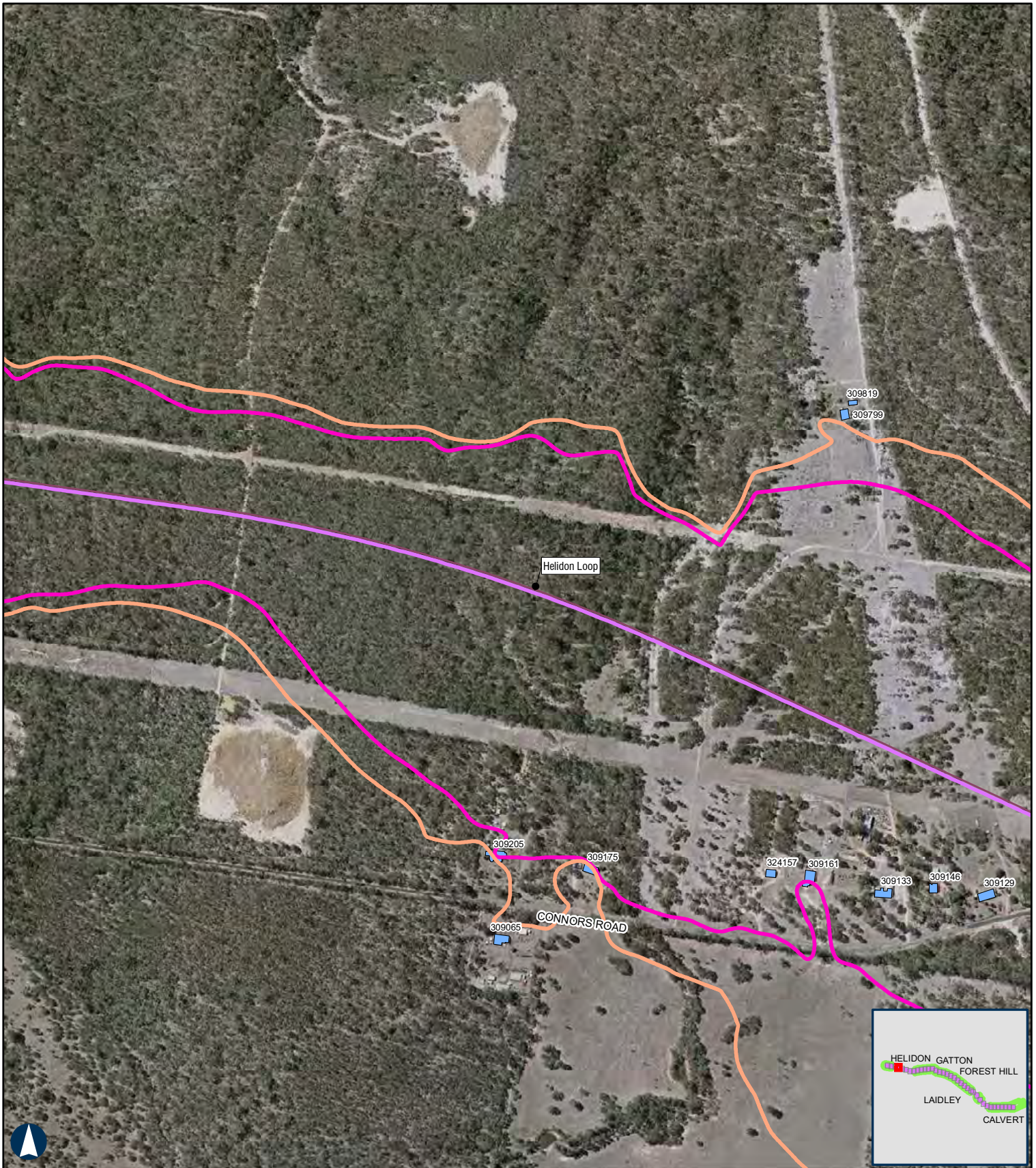


**HELIDON TO CALVERT** Year 2026 Night-time rail noise levels APPENDIX D - Map 3 of 36

<p><b>200 m</b></p> <p>Coordinate System: GDA 1994 MGA Zone 56</p> <p>ARTC makes no representation or warranty and assumes no duty of care or other responsibility to any party as to the completeness, accuracy or suitability of the information contained in this GIS map. The GIS map has been prepared from material provided to ARTC by an external source and ARTC has not taken any steps to verify the completeness, accuracy or suitability of that material.</p> <p>ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information contained within this GIS map.</p> <p>Paper: A4 <span style="margin-left: 20px;">Scale: 1:7,500</span>          Date: 12-Oct-2020          Author: JG</p>	<ul style="list-style-type: none"> <li><span style="color: red; font-size: 2em;">✕</span> Level Crossings</li> <li><span style="border-bottom: 2px solid black; width: 20px; display: inline-block;"></span> Project Extent</li> <li><span style="border-bottom: 2px solid grey; width: 20px; display: inline-block;"></span> Crossing Loops</li> <li><span style="border-bottom: 2px solid purple; width: 20px; display: inline-block;"></span> Rail Alignment/Centreline</li> <li><span style="border-bottom: 2px solid orange; width: 20px; display: inline-block;"></span> Bridges and Viaducts</li> <li><span style="border-bottom: 2px solid red; width: 20px; display: inline-block;"></span> Little Liverpool Range tunnel</li> <li><span style="border: 2px solid green; width: 20px; display: inline-block;"></span> Noise Assessment Area – Upgrading Existing Railway</li> </ul>	<ul style="list-style-type: none"> <li><span style="border-bottom: 2px solid orange; width: 20px; display: inline-block;"></span> Night-time noise criteria LAeq9hr 55dBA New rail corridor</li> <li><span style="border-bottom: 2px solid pink; width: 20px; display: inline-block;"></span> Night-time noise criteria LAeq9hr 60dBA Redevelopment existing rail corridor</li> <li><span style="border-bottom: 2px solid blue; width: 20px; display: inline-block;"></span> Night-time noise criteria LA max 80dBA New rail corridor</li> <li><span style="border-bottom: 2px solid cyan; width: 20px; display: inline-block;"></span> Night-time noise criteria LA max 85dBA Redevelopment existing rail corridor</li> <li><span style="border: 1px solid blue; width: 10px; height: 10px; display: inline-block;"></span> Receptors</li> </ul>	<p>Noise contours are based on a set distance above the local terrain level of 2.4m.</p>
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# HELIDON TO CALVERT Year 2026 Night-time rail noise levels

APPENDIX D - Map 4 of 36

200 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:7,500  
 Date: 12-Oct-2020  
 Author: JG

- Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway
- Night-time noise criteria LAeq9hr 55dBA New rail corridor
- Night-time noise criteria LAeq9hr 60dBA Redevelopment existing rail corridor
- Night-time noise criteria LA max 80dBA New rail corridor
- Night-time noise criteria LA max 85dBA Redevelopment existing rail corridor
- Receptors

Noise contours are based on a set distance above the local terrain level of 2.4m.



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# HELIDON TO CALVERT Year 2026 Night-time rail noise levels

**200 m**

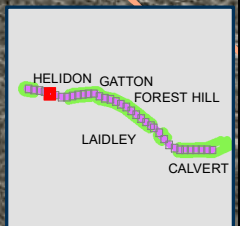
Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4      Scale: 1:7,500  
 Date: 12-Oct-2020  
 Author: JG

- Level Crossings
  - Project Extent
  - Crossing Loops
  - Rail Alignment/Centreline
  - Bridges and Viaducts
  - Little Liverpool Range tunnel
  - Noise Assessment Area – Upgrading Existing Railway
  - Receptors
  - Night-time noise criteria LAeq9hr 55dBA New rail corridor
  - Night-time noise criteria LAeq9hr 60dBA Redevelopment existing rail corridor
  - Night-time noise criteria LA max 80dBA New rail corridor
  - Night-time noise criteria LA max 85dBA Redevelopment existing rail corridor
- Noise contours are based on a set distance above the local terrain level of 2.4m.







# HELIDON TO CALVERT Year 2026 Night-time rail noise levels

200 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4  
Date: 12-Oct-2020  
Author: JG  
Scale: 1:7,500

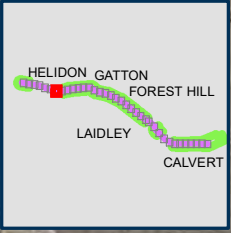
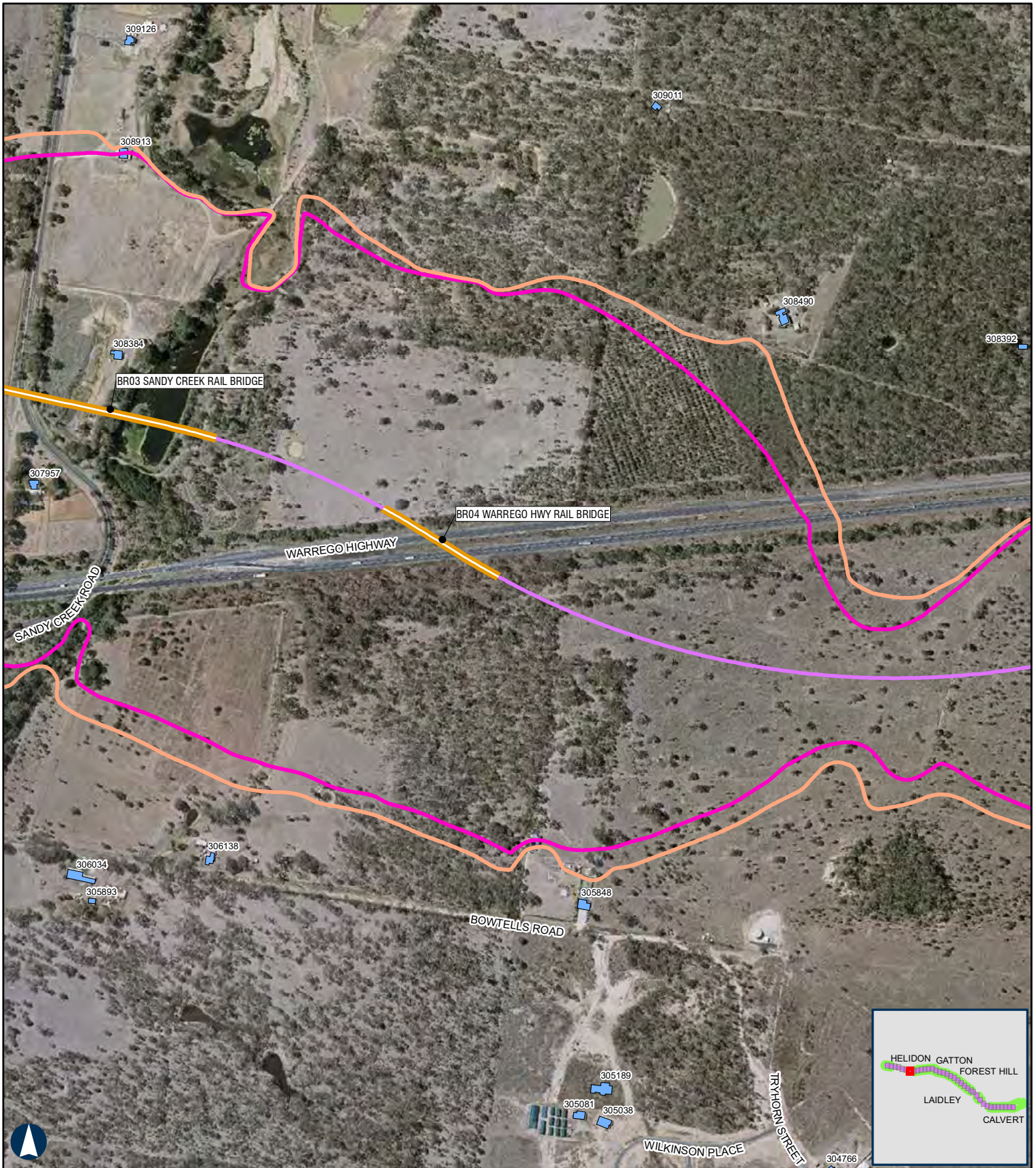
- Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway
- Receptors
- Night-time noise criteria LAeq9hr 55dBA New rail corridor
- Night-time noise criteria LAeq9hr 60dBA Redevelopment existing rail corridor
- Night-time noise criteria LA max 80dBA New rail corridor
- Night-time noise criteria LA max 85dBA Redevelopment existing rail corridor

Noise contours are based on a set distance above the local terrain level of 2.4m.



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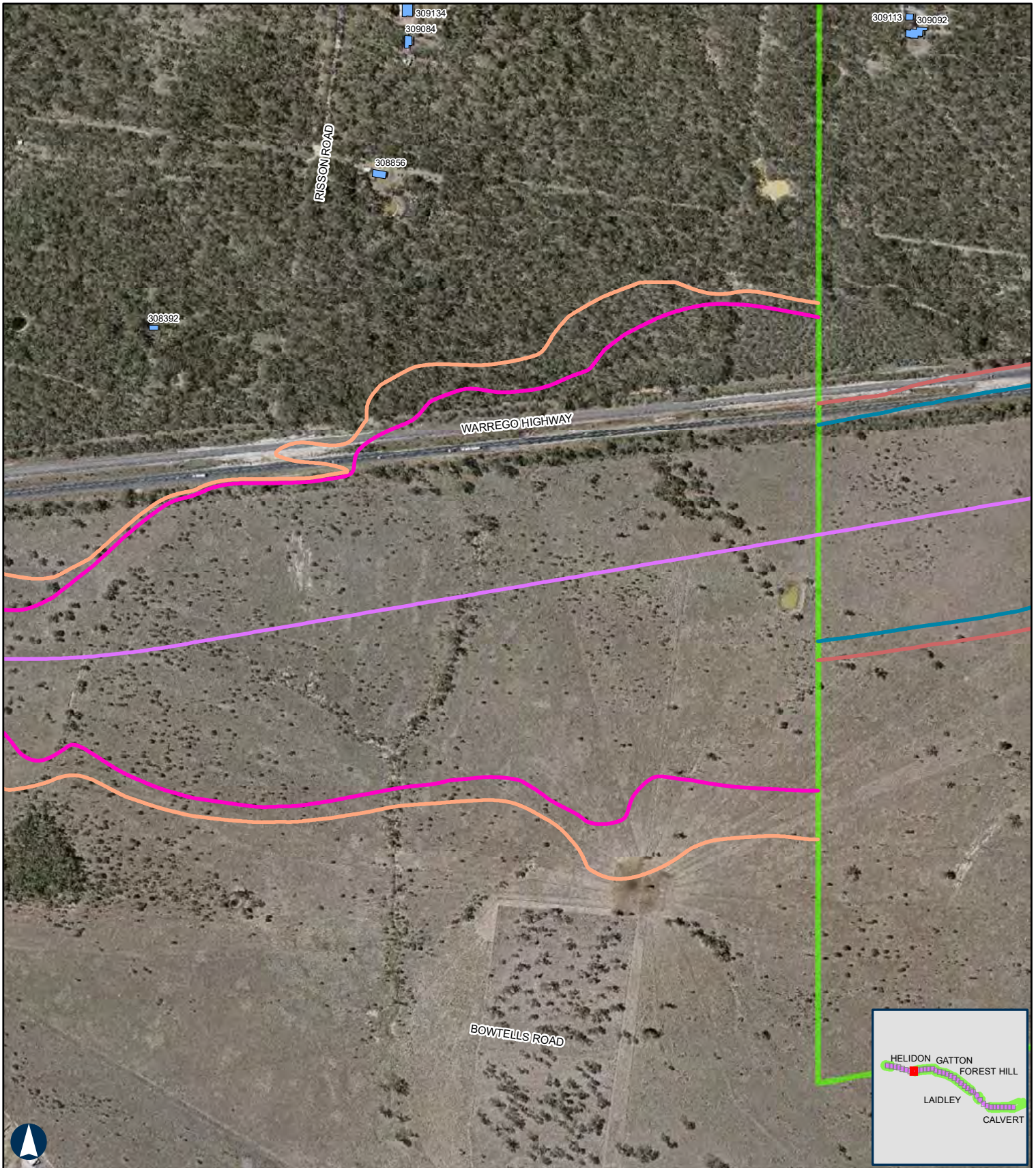
**HELIDON TO CALVERT** Year 2026 Night-time rail noise levels APPENDIX D - Map 7 of 36

<p><b>200 m</b></p> <p>Coordinate System: GDA 1994 MGA Zone 56</p> <p>ARTC makes no representation or warranty and assumes no duty of care or other responsibility to any party as to the completeness, accuracy or suitability of the information contained in this GIS map. The GIS map has been prepared from material provided to ARTC by an external source and ARTC has not taken any steps to verify the completeness, accuracy or suitability of that material.</p> <p>ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information contained within this GIS map.</p> <p>Paper: A4      Scale: 1:7,500          Date: 12-Oct-2020          Author: JG</p>	<ul style="list-style-type: none"> <li><span style="color: red; font-size: 2em;">✕</span> Level Crossings</li> <li><span style="border-bottom: 2px solid black; width: 20px; display: inline-block;"></span> Project Extent</li> <li><span style="border-bottom: 2px solid grey; width: 20px; display: inline-block;"></span> Crossing Loops</li> <li><span style="border-bottom: 2px solid purple; width: 20px; display: inline-block;"></span> Rail Alignment/Centreline</li> <li><span style="border-bottom: 2px solid orange; width: 20px; display: inline-block;"></span> Bridges and Viaducts</li> <li><span style="border-bottom: 2px solid red; width: 20px; display: inline-block;"></span> Little Liverpool Range tunnel</li> <li><span style="border: 2px solid green; width: 20px; display: inline-block;"></span> Noise Assessment Area – Upgrading Existing Railway</li> </ul>	<ul style="list-style-type: none"> <li><span style="border-bottom: 2px solid orange; width: 20px; display: inline-block;"></span> Night-time noise criteria LAeq9hr 55dBA New rail corridor</li> <li><span style="border-bottom: 2px solid red; width: 20px; display: inline-block;"></span> Night-time noise criteria LAeq9hr 60dBA Redevelopment existing rail corridor</li> <li><span style="border-bottom: 2px solid pink; width: 20px; display: inline-block;"></span> Night-time noise criteria LA max 80dBA New rail corridor</li> <li><span style="border-bottom: 2px solid blue; width: 20px; display: inline-block;"></span> Night-time noise criteria LA max 85dBA Redevelopment existing rail corridor</li> <li><span style="border: 1px solid blue; width: 10px; height: 10px; display: inline-block;"></span> Receptors</li> </ul>	<p>Noise contours are based on a set distance above the local terrain level of 2.4m.</p>
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# HELIDON TO CALVERT Year 2026 Night-time rail noise levels

APPENDIX D - Map 8 of 36

200 m

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Paper: A4 Scale: 1:7,500  
 Date: 12-Oct-2020  
 Author: JG

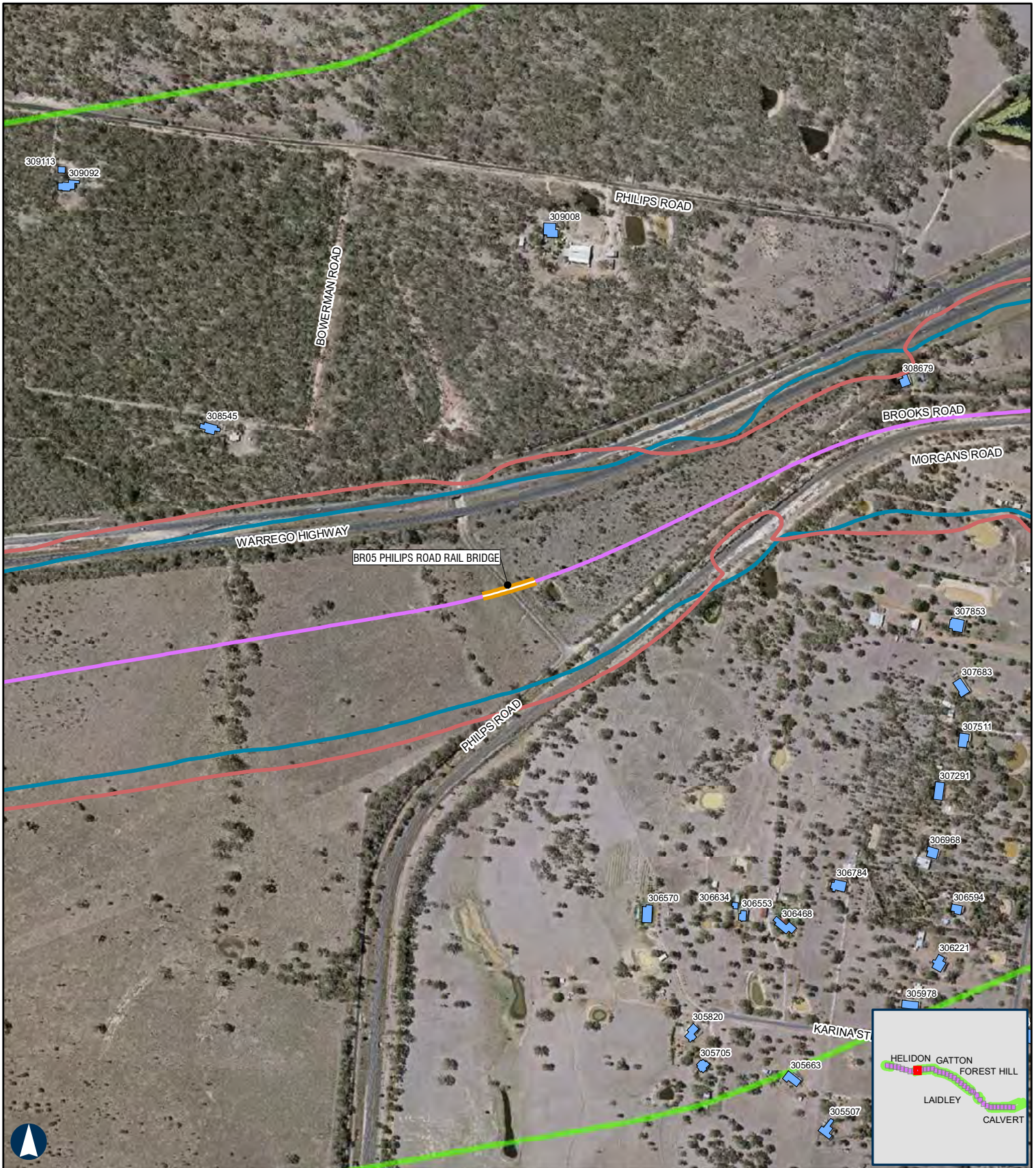
- Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway
- Night-time noise criteria LAeq9hr 55dBA New rail corridor
- Night-time noise criteria LAeq9hr 60dBA Redevelopment existing rail corridor
- Night-time noise criteria LA max 80dBA New rail corridor
- Night-time noise criteria LA max 85dBA Redevelopment existing rail corridor
- Receptors

Noise contours are based on a set distance above the local terrain level of 2.4m.



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# HELIDON TO CALVERT Year 2026 Night-time rail noise levels

APPENDIX D - Map 9 of 36

200 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:7,500  
 Date: 12-Oct-2020  
 Author: JG

- Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway
- Night-time noise criteria LAeq9hr 55dBA New rail corridor
- Night-time noise criteria LAeq9hr 60dBA Redevelopment existing rail corridor
- Night-time noise criteria LA max 80dBA New rail corridor
- Night-time noise criteria LA max 85dBA Redevelopment existing rail corridor
- Receptors

Noise contours are based on a set distance above the local terrain level of 2.4m.



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## HELIDON TO CALVERT Year 2026 Night-time rail noise levels

APPENDIX D - Map 10 of 36

200 m

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Paper: A4 Scale: 1:7,500  
Date: 12-Oct-2020  
Author: JG

- Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway

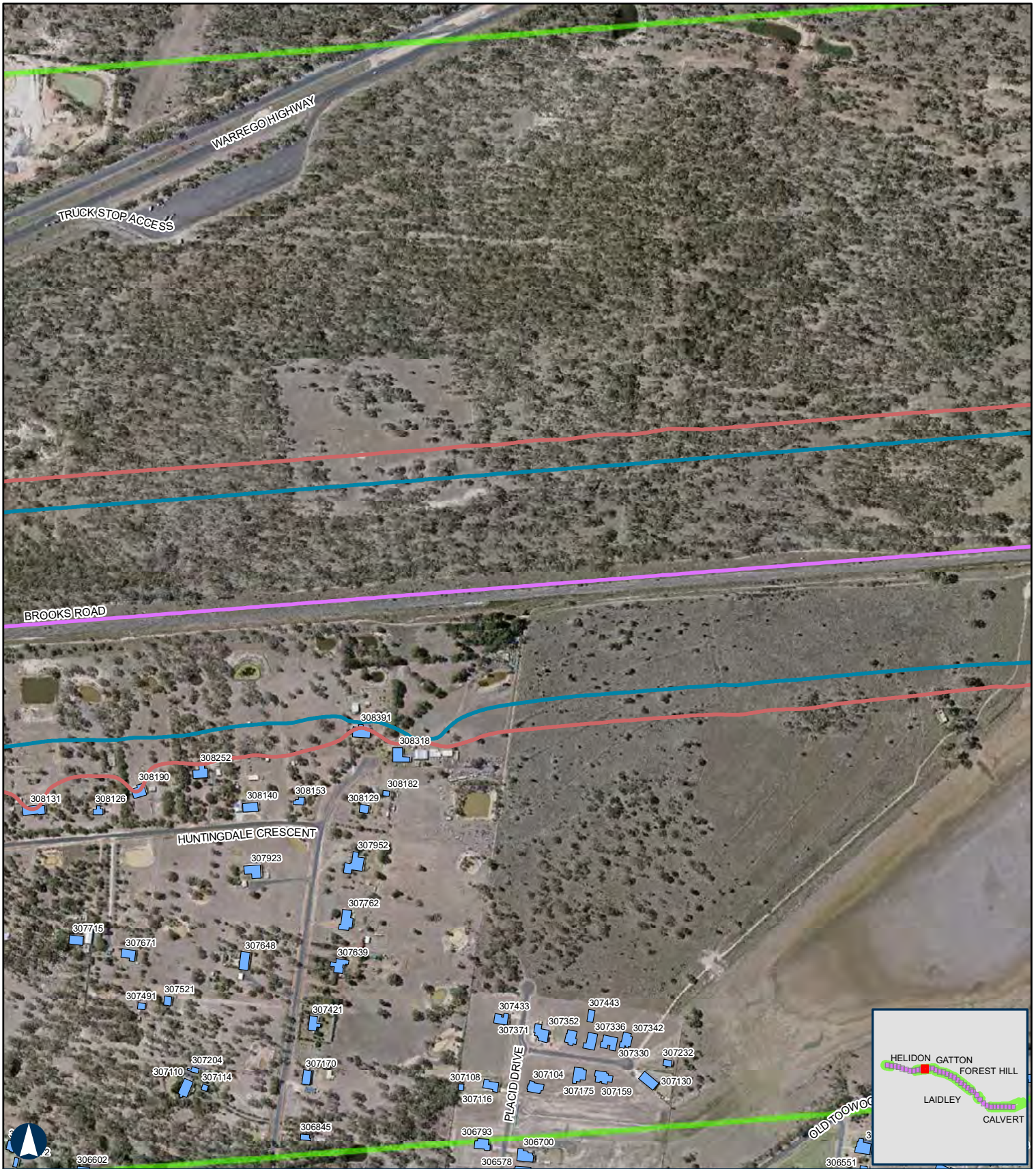
Noise contours are based on a set distance above the local terrain level of 2.4m.

- Night-time noise criteria LAeq9hr 55dBA New rail corridor
- Night-time noise criteria LAeq9hr 60dBA Redevelopment existing rail corridor
- Night-time noise criteria LA max 80dBA New rail corridor
- Night-time noise criteria LA max 85dBA Redevelopment existing rail corridor
- Receptors



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# HELIDON TO CALVERT Year 2026 Night-time rail noise levels

APPENDIX D - Map 11 of 36

200 m

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Paper: A4  
Date: 12-Oct-2020  
Author: JG

Scale: 1:7,500

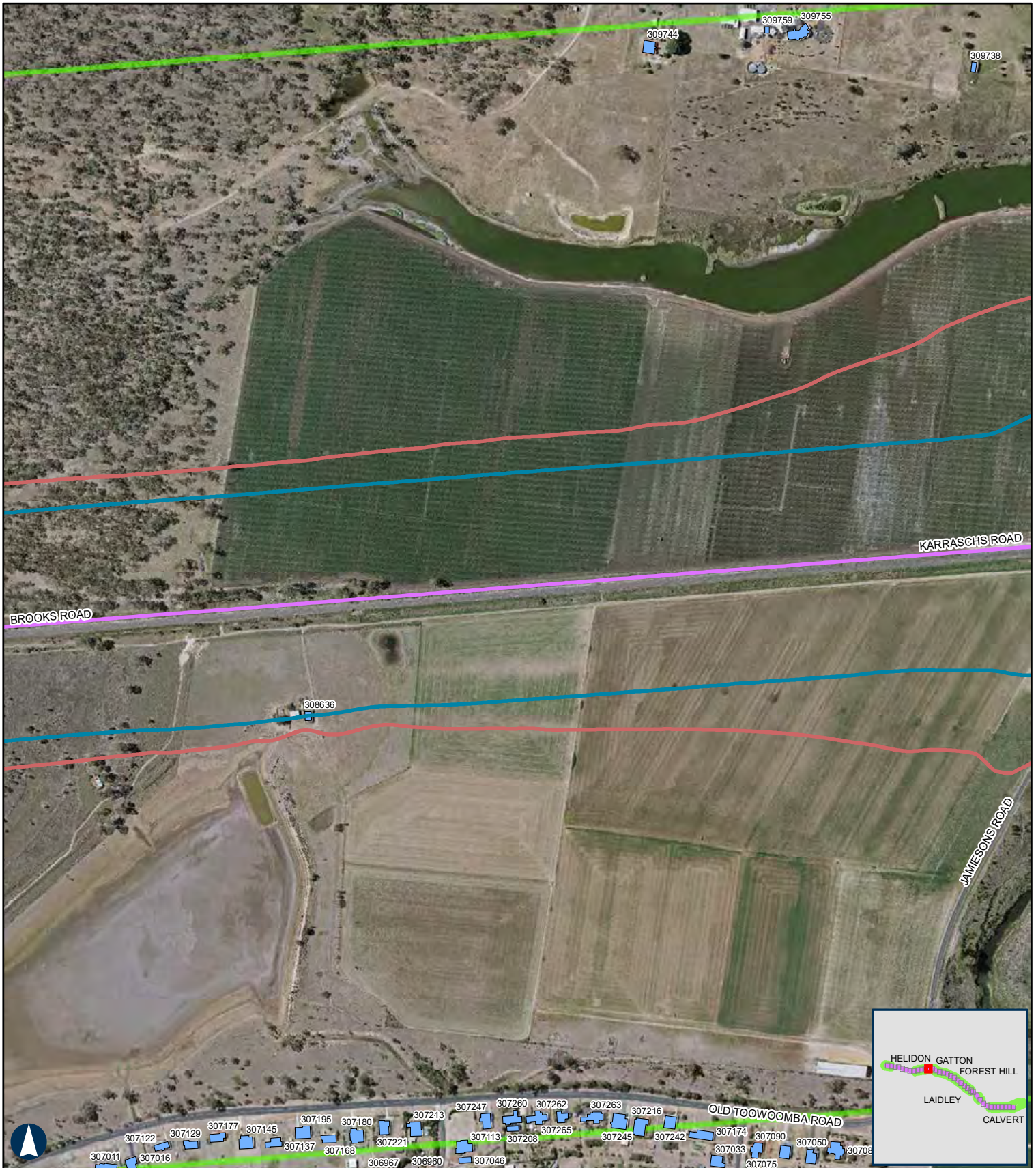
- Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway
- Night-time noise criteria LAeq9hr 55dBA New rail corridor
- Night-time noise criteria LAeq9hr 60dBA Redevelopment existing rail corridor
- Night-time noise criteria LA max 80dBA New rail corridor
- Night-time noise criteria LA max 85dBA Redevelopment existing rail corridor
- Receptors

Noise contours are based on a set distance above the local terrain level of 2.4m.



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**HELIDON TO CALVERT** Year 2026 Night-time rail noise levels APPENDIX D - Map 12 of 36

<p><b>200 m</b></p> <p>Coordinate System: GDA 1994 MGA Zone 56</p> <p>ARTC makes no representation or warranty and assumes no duty of care or other responsibility to any party as to the completeness, accuracy or suitability of the information contained in this GIS map. The GIS map has been prepared from material provided to ARTC by an external source and ARTC has not taken any steps to verify the completeness, accuracy or suitability of that material.</p> <p>ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information contained within this GIS map.</p> <p>Paper: A4      Scale: 1:7,500          Date: 12-Oct-2020          Author: JG</p>	<ul style="list-style-type: none"> <li><span style="color: red; font-size: 2em;">X</span> Level Crossings</li> <li><span style="border-bottom: 2px solid black; width: 20px; display: inline-block;"></span> Project Extent</li> <li><span style="border-bottom: 2px solid brown; width: 20px; display: inline-block;"></span> Crossing Loops</li> <li><span style="border-bottom: 2px solid purple; width: 20px; display: inline-block;"></span> Rail Alignment/Centreline</li> <li><span style="border-bottom: 2px solid orange; width: 20px; display: inline-block;"></span> Bridges and Viaducts</li> <li><span style="border-bottom: 2px solid brown; width: 20px; display: inline-block;"></span> Little Liverpool Range tunnel</li> <li><span style="border: 2px solid green; width: 20px; display: inline-block;"></span> Noise Assessment Area – Upgrading Existing Railway</li> </ul>	<ul style="list-style-type: none"> <li><span style="border-bottom: 2px solid orange; width: 20px; display: inline-block;"></span> Night-time noise criteria LAeq9hr 55dBA New rail corridor</li> <li><span style="border-bottom: 2px solid red; width: 20px; display: inline-block;"></span> Night-time noise criteria LAeq9hr 60dBA Redevelopment existing rail corridor</li> <li><span style="border-bottom: 2px solid blue; width: 20px; display: inline-block;"></span> Night-time noise criteria LA max 80dBA New rail corridor</li> <li><span style="border-bottom: 2px solid cyan; width: 20px; display: inline-block;"></span> Night-time noise criteria LA max 85dBA Redevelopment existing rail corridor</li> <li><span style="border: 1px solid blue; width: 10px; height: 10px; display: inline-block;"></span> Receptors</li> </ul>
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Noise contours are based on a set distance above the local terrain level of 2.4m.







## HELIDON TO CALVERT Year 2026 Night-time rail noise levels

APPENDIX D - Map 13 of 36

200 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:7,500  
 Date: 12-Oct-2020  
 Author: JG

- ✕ Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway

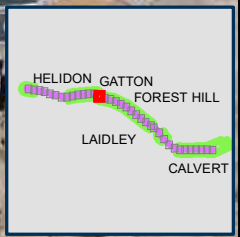
Noise contours are based on a set distance above the local terrain level of 2.4m.

- Night-time noise criteria LAeq9hr 55dBA New rail corridor
- Night-time noise criteria LAeq9hr 60dBA Redevelopment existing rail corridor
- Night-time noise criteria LA max 80dBA New rail corridor
- Night-time noise criteria LA max 85dBA Redevelopment existing rail corridor
- Receptors



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# HELIDON TO CALVERT

## Year 2026 Night-time rail noise levels

### APPENDIX D - Map 14 of 36

200 m

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Paper: A4  
Date: 12-Oct-2020  
Author: JG

Scale: 1:7,500

- Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway

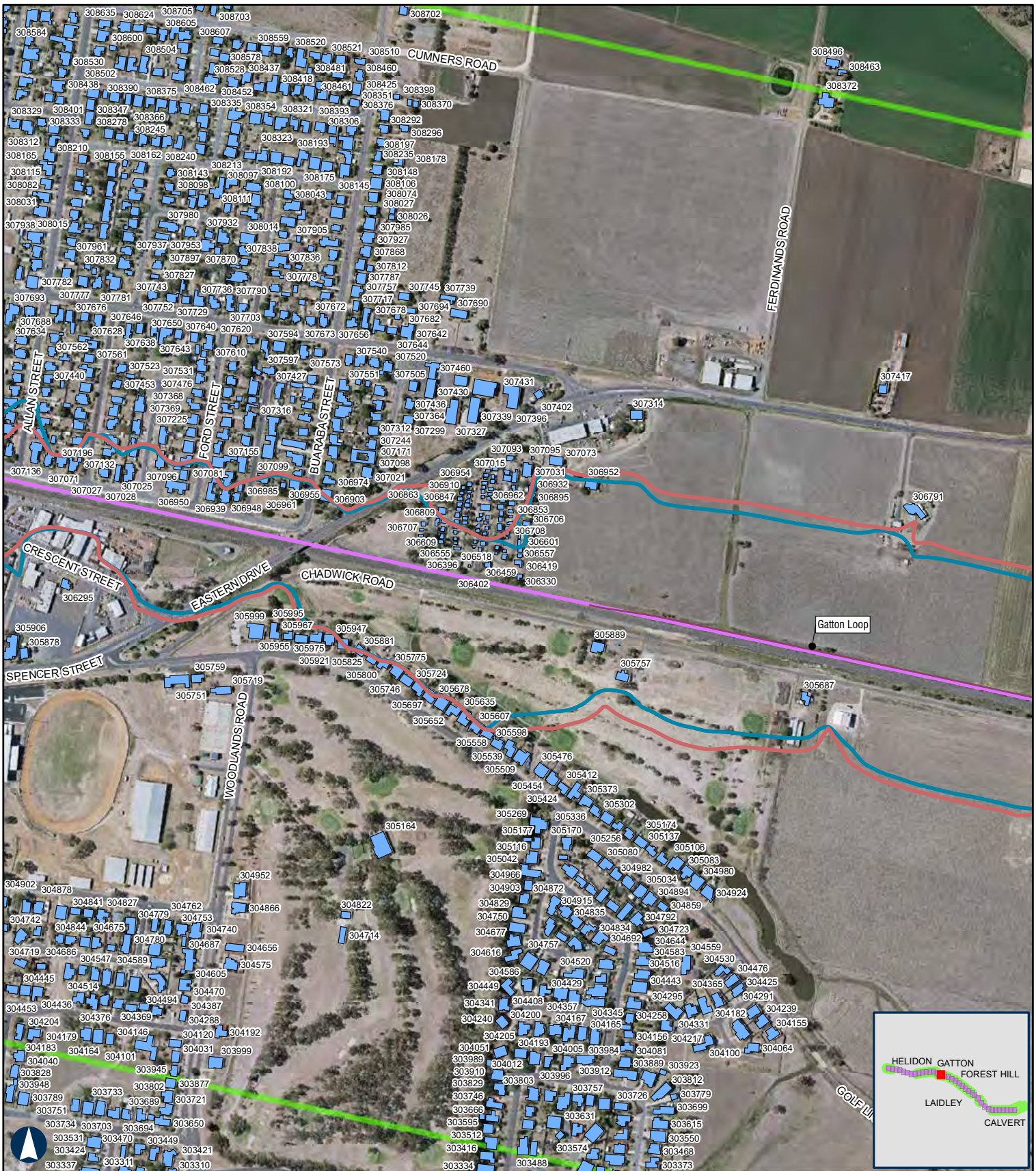
Noise contours are based on a set distance above the local terrain level of 2.4m.

- Night-time noise criteria LAeq9hr 55dBA New rail corridor
- Night-time noise criteria LAeq9hr 60dBA Redevelopment existing rail corridor
- Night-time noise criteria LA max 80dBA New rail corridor
- Night-time noise criteria LA max 85dBA Redevelopment existing rail corridor
- Receptors



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**HELIDON TO CALVERT** Year 2026 Night-time rail noise levels APPENDIX D - Map 15 of 36

<p><b>200 m</b></p> <p>Coordinate System: GDA 1994 MGA Zone 56</p> <p>ARTC makes no representation or warranty and assumes no duty of care or other responsibility to any party as to the completeness, accuracy or suitability of the information contained in this GIS map. The GIS map has been prepared from material provided to ARTC by an external source and ARTC has not taken any steps to verify the completeness, accuracy or suitability of that material.</p> <p>ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information contained within this GIS map.</p> <p>Paper: A4      Scale: 1:7,500          Date: 12-Oct-2020          Author: JG</p>	<ul style="list-style-type: none"> <li><span style="color: red;">✕</span> Level Crossings</li> <li><span style="border-bottom: 1px solid black; width: 20px; display: inline-block;"></span> Project Extent</li> <li><span style="border-bottom: 1px dashed black; width: 20px; display: inline-block;"></span> Crossing Loops</li> <li><span style="border-bottom: 1px solid purple; width: 20px; display: inline-block;"></span> Rail Alignment/Centreline</li> <li><span style="border-bottom: 1px solid orange; width: 20px; display: inline-block;"></span> Bridges and Viaducts</li> <li><span style="border-bottom: 1px solid blue; width: 20px; display: inline-block;"></span> Little Liverpool Range tunnel</li> <li><span style="border-bottom: 1px solid green; width: 20px; display: inline-block;"></span> Noise Assessment Area – Upgrading Existing Railway</li> </ul>	<ul style="list-style-type: none"> <li><span style="border-bottom: 1px solid orange; width: 20px; display: inline-block;"></span> Night-time noise criteria LAeq9hr 55dBA New rail corridor</li> <li><span style="border-bottom: 1px solid red; width: 20px; display: inline-block;"></span> Night-time noise criteria LAeq9hr 60dBA Redevelopment existing rail corridor</li> <li><span style="border-bottom: 1px solid magenta; width: 20px; display: inline-block;"></span> Night-time noise criteria LA max 80dBA New rail corridor</li> <li><span style="border-bottom: 1px solid blue; width: 20px; display: inline-block;"></span> Night-time noise criteria LA max 85dBA Redevelopment existing rail corridor</li> <li><span style="background-color: blue; width: 10px; height: 10px; display: inline-block;"></span> Receptors</li> </ul>
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Noise contours are based on a set distance above the local terrain level of 2.4m.







# HELIDON TO CALVERT Year 2026 Night-time rail noise levels

APPENDIX D - Map 16 of 36

200 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:7,500  
 Date: 12-Oct-2020  
 Author: JG

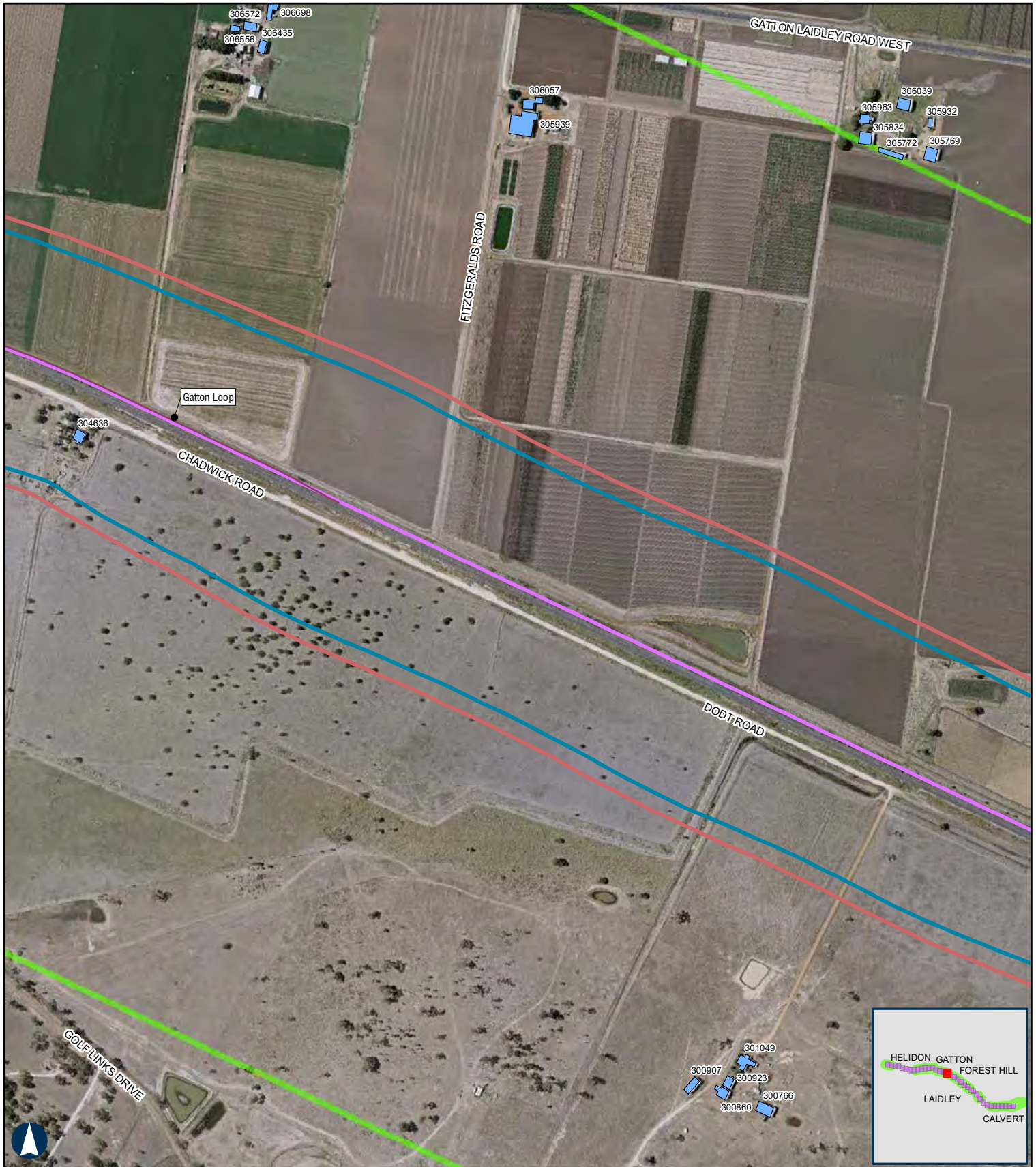
- Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway
- Receptors
- Night-time noise criteria LAeq9hr 55dBA New rail corridor
- Night-time noise criteria LAeq9hr 60dBA Redevelopment existing rail corridor
- Night-time noise criteria LA max 80dBA New rail corridor
- Night-time noise criteria LA max 85dBA Redevelopment existing rail corridor

Noise contours are based on a set distance above the local terrain level of 2.4m.



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200 m

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- Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway
- Night-time noise criteria LAeq9hr 55dBA New rail corridor
- Night-time noise criteria LAeq9hr 60dBA Redevelopment existing rail corridor
- Night-time noise criteria LA max 80dBA New rail corridor
- Night-time noise criteria LA max 85dBA Redevelopment existing rail corridor
- Receptors

Noise contours are based on a set distance above the local terrain level of 2.4m.



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**HELIDON TO CALVERT** Year 2026 Night-time rail noise levels APPENDIX D - Map 18 of 36

**200 m**

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- ✗ Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- ▭ Noise Assessment Area – Upgrading Existing Railway
- Night-time noise criteria LAeq9hr 55dBA New rail corridor
- Night-time noise criteria LAeq9hr 60dBA Redevelopment existing rail corridor
- Night-time noise criteria LA max 80dBA New rail corridor
- Night-time noise criteria LA max 85dBA Redevelopment existing rail corridor
- ▭ Receptors

Noise contours are based on a set distance above the local terrain level of 2.4m.

Paper: A4 Scale: 1:7,500

Date: 12-Oct-2020

Author: JG

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## HELIDON TO CALVERT Year 2026 Night-time rail noise levels

APPENDIX D - Map 19 of 36

200 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:7,500  
Date: 12-Oct-2020  
Author: JG

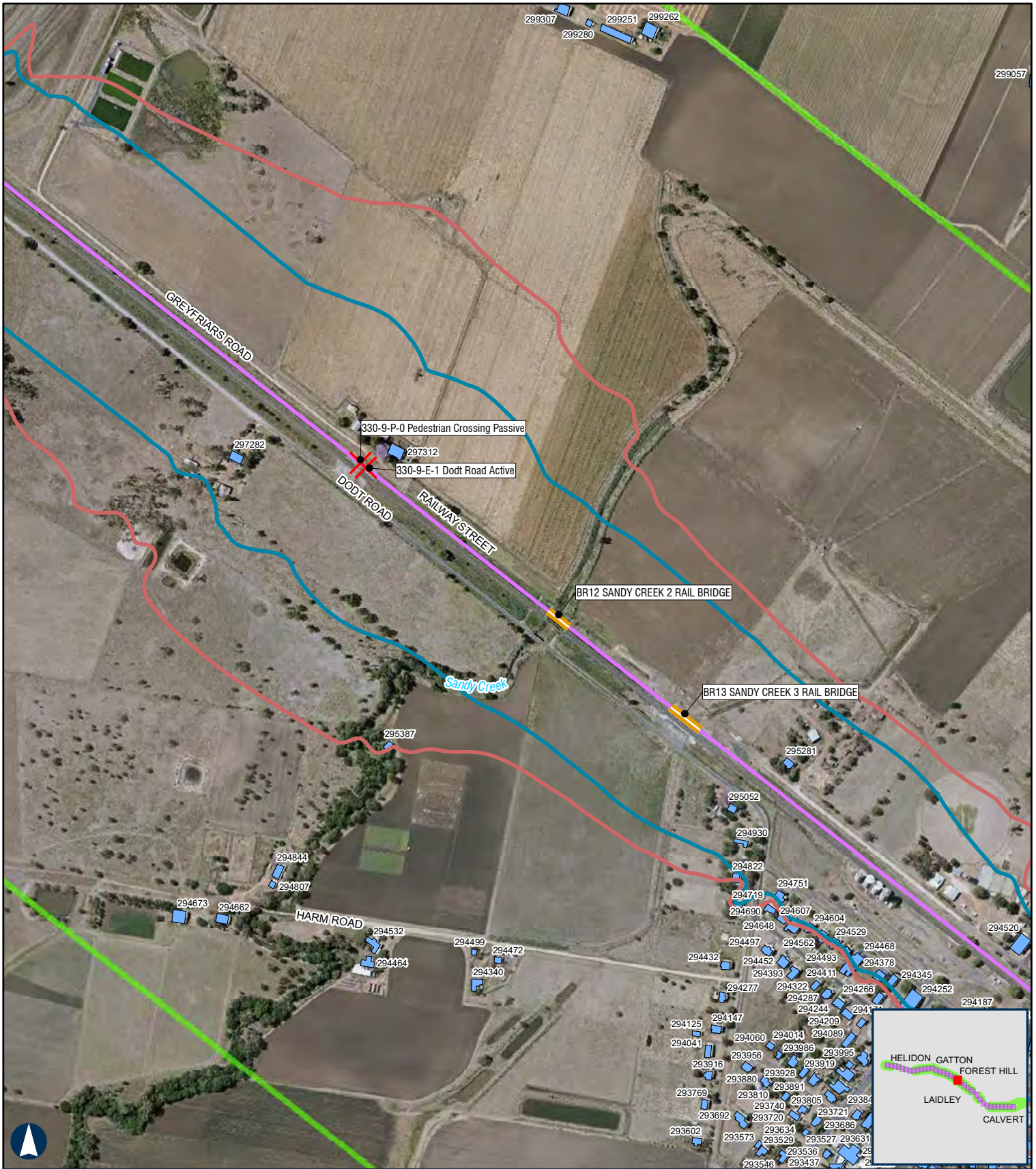
- Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway
- Receptors
- Night-time noise criteria LAeq9hr 55dBA New rail corridor
- Night-time noise criteria LAeq9hr 60dBA Redevelopment existing rail corridor
- Night-time noise criteria LA max 80dBA New rail corridor
- Night-time noise criteria LA max 85dBA Redevelopment existing rail corridor

Noise contours are based on a set distance above the local terrain level of 2.4m.



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# HELIDON TO CALVERT Year 2026 Night-time rail noise levels

# APPENDIX D - Map 20 of 36

200 m

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Paper: A4  
Date: 12-Oct-2020  
Author: JG  
Scale: 1:7,500

- ✕ Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway

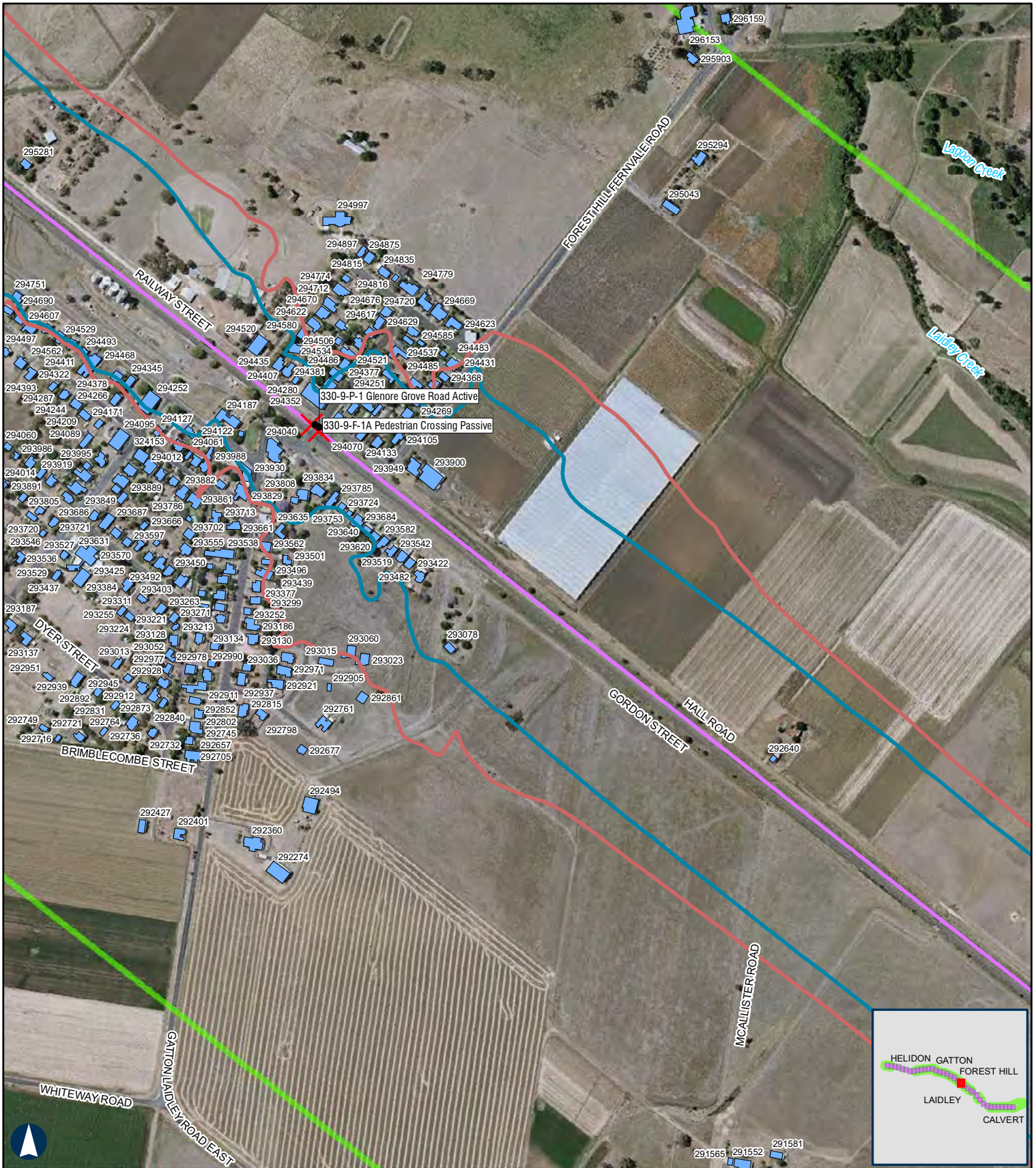
Noise contours are based on a set distance above the local terrain level of 2.4m.

- Night-time noise criteria LAeq9hr 55dBA New rail corridor
- Night-time noise criteria LAeq9hr 60dBA Redevelopment existing rail corridor
- Night-time noise criteria LA max 80dBA New rail corridor
- Night-time noise criteria LA max 85dBA Redevelopment existing rail corridor
- Receptors



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## HELIDON TO CALVERT Year 2026 Night-time rail noise levels

APPENDIX D - Map 21 of 36

200 m

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Paper: A4  
Date: 12-Oct-2020  
Author: JG

Scale: 1:7,500

- Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway

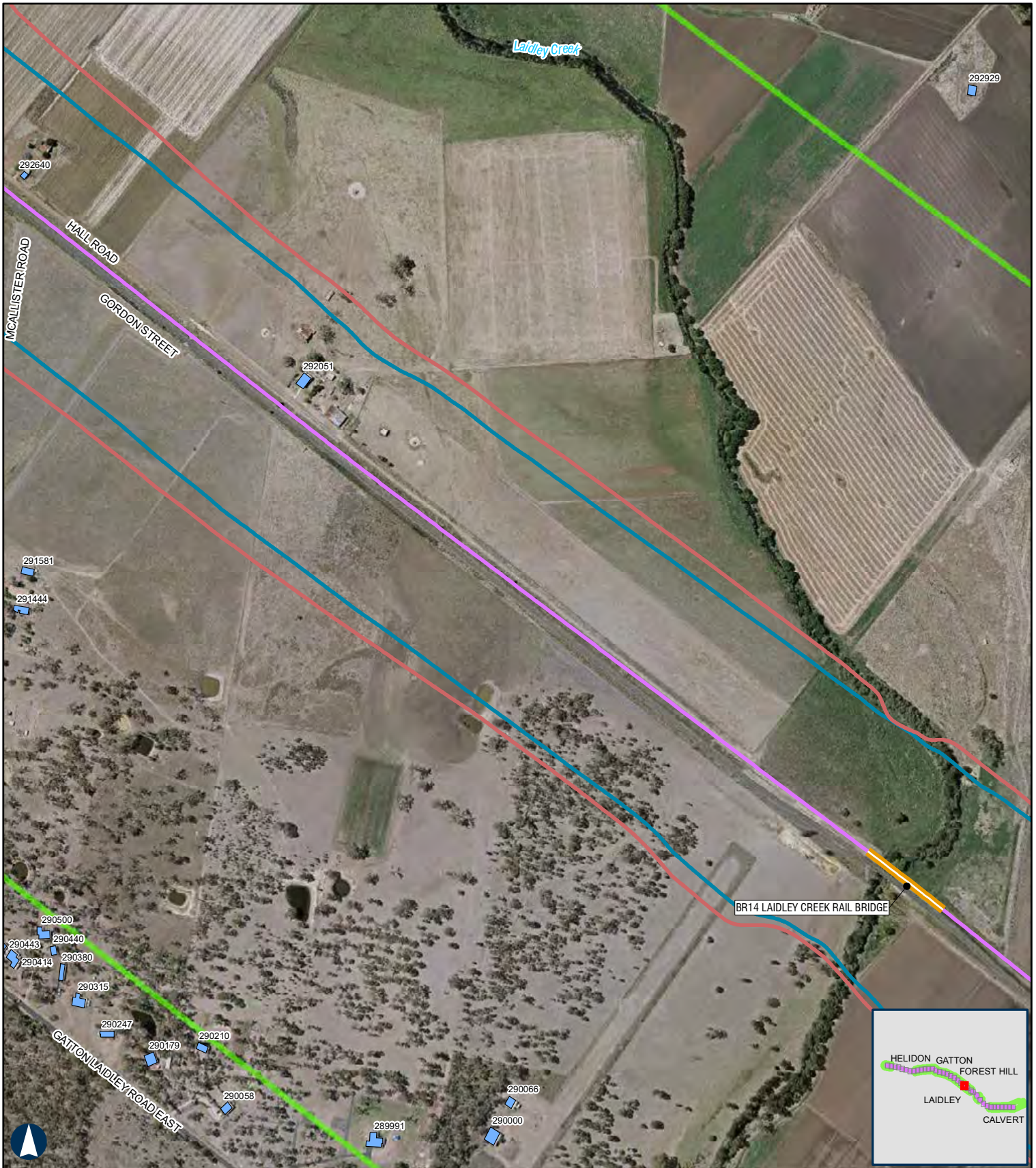
Noise contours are based on a set distance above the local terrain level of 2.4m.

- Night-time noise criteria LAeq9hr 55dBA New rail corridor
- Night-time noise criteria LAeq9hr 60dBA Redevelopment existing rail corridor
- Night-time noise criteria LA max 80dBA New rail corridor
- Night-time noise criteria LA max 85dBA Redevelopment existing rail corridor
- Receptors



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## HELIDON TO CALVERT Year 2026 Night-time rail noise levels

APPENDIX D - Map 22 of 36

200 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:7,500  
Date: 12-Oct-2020  
Author: JG

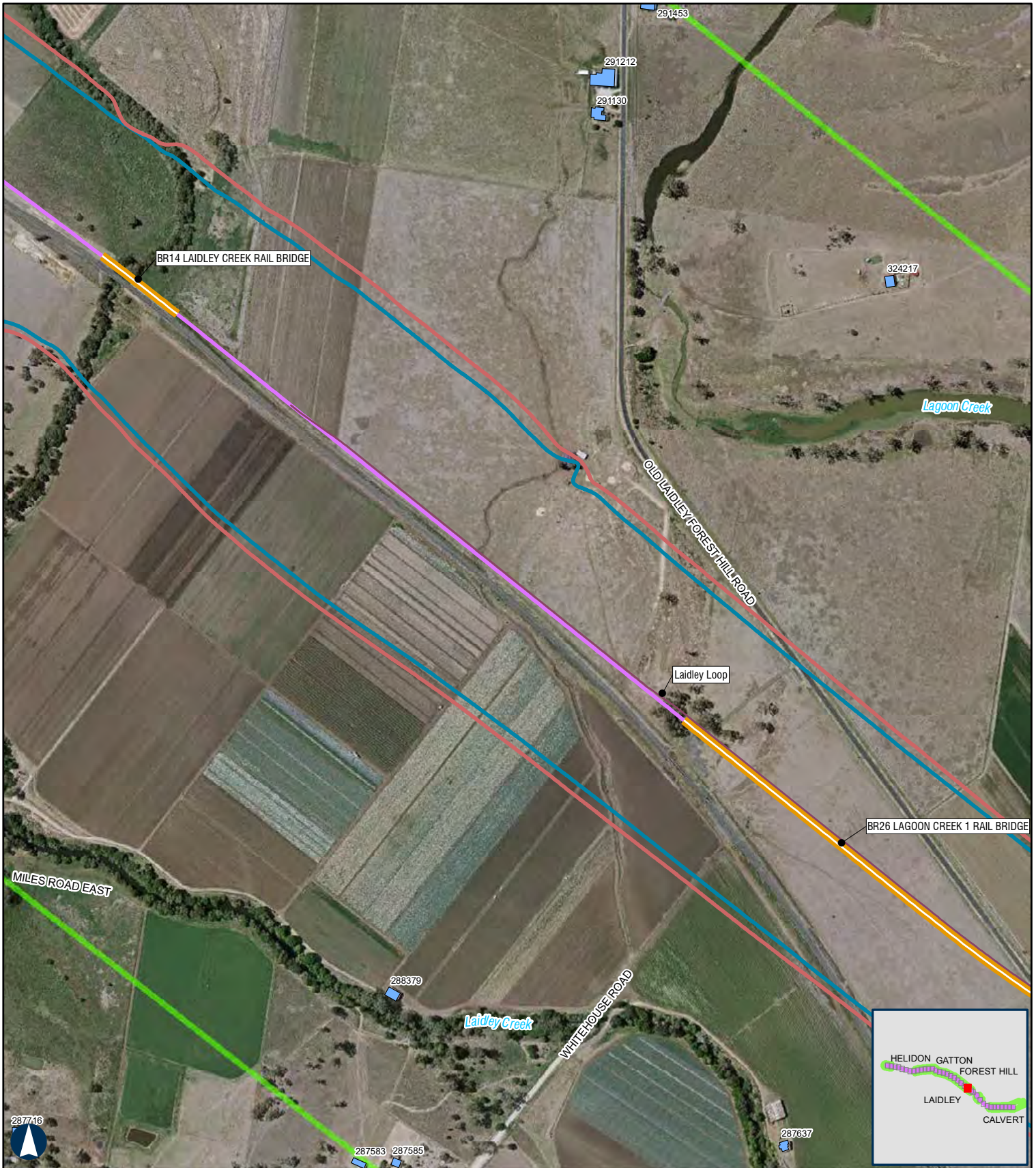
- Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway
- Receptors
- Night-time noise criteria LAeq9hr 55dBA New rail corridor
- Night-time noise criteria LAeq9hr 60dBA Redevelopment existing rail corridor
- Night-time noise criteria LA max 80dBA New rail corridor
- Night-time noise criteria LA max 85dBA Redevelopment existing rail corridor

Noise contours are based on a set distance above the local terrain level of 2.4m.



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# HELIDON TO CALVERT Year 2026 Night-time rail noise levels

200 m

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- Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway

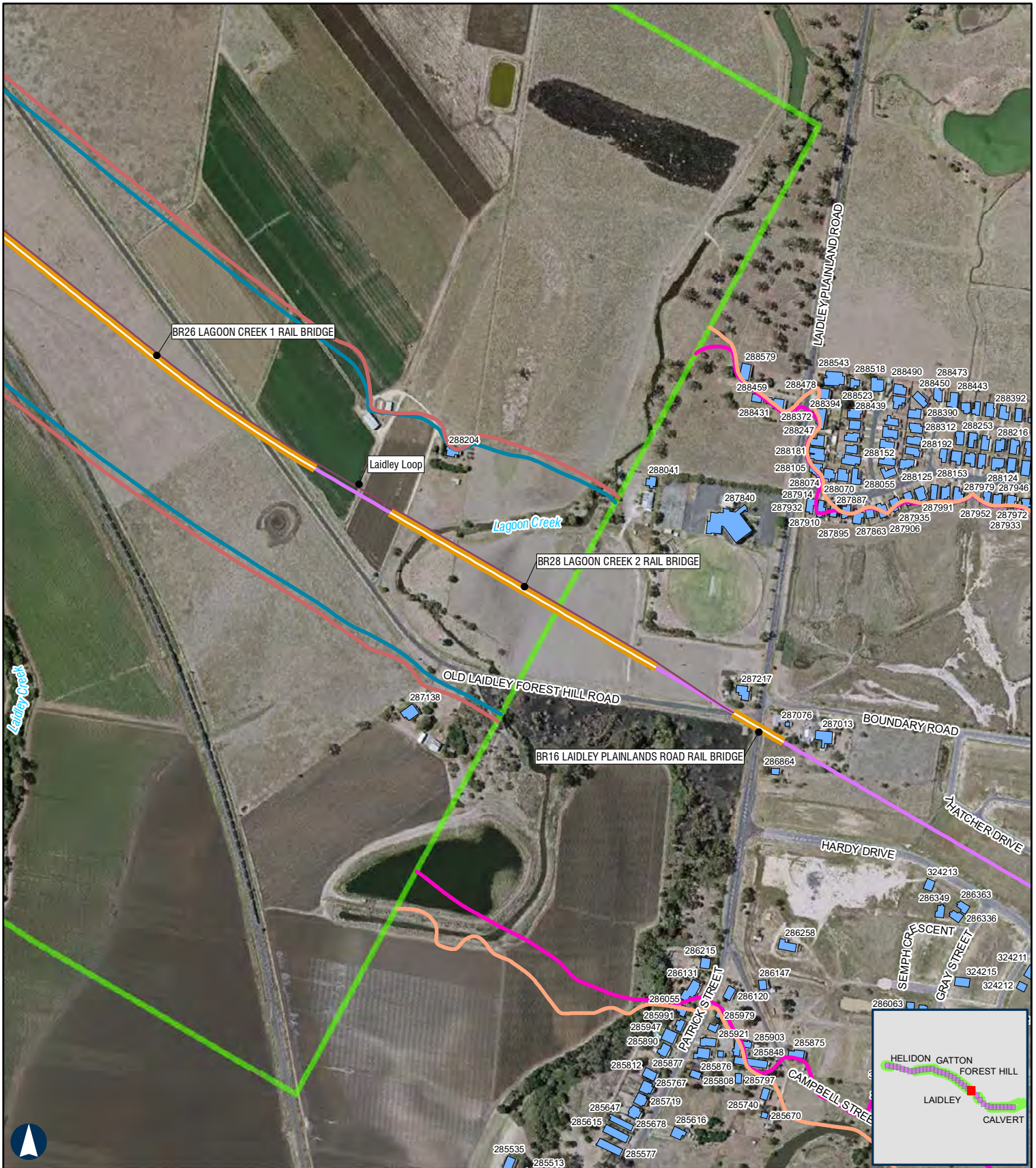
Noise contours are based on a set distance above the local terrain level of 2.4m.

- Night-time noise criteria LAeq9hr 55dBA New rail corridor
- Night-time noise criteria LAeq9hr 60dBA Redevelopment existing rail corridor
- Night-time noise criteria LA max 80dBA New rail corridor
- Night-time noise criteria LA max 85dBA Redevelopment existing rail corridor
- Receptors



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## HELIDON TO CALVERT Year 2026 Night-time rail noise levels

APPENDIX D - Map 24 of 36

200 m

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 Date: 12-Oct-2020  
 Author: JG

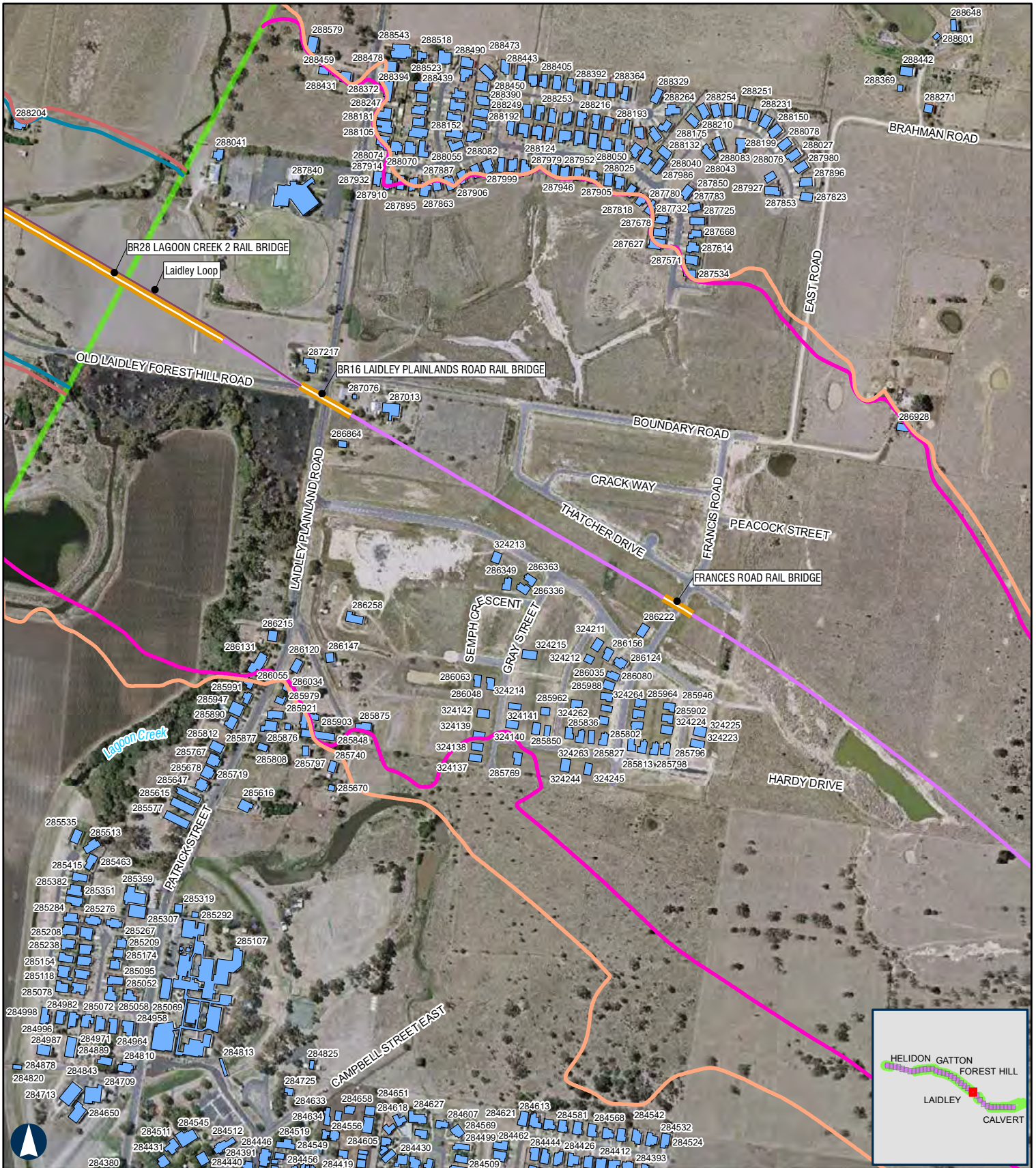
- X Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway
- Night-time noise criteria LAeq9hr 55dBA New rail corridor
- Night-time noise criteria LAeq9hr 60dBA Redevelopment existing rail corridor
- Night-time noise criteria LA max 80dBA New rail corridor
- Night-time noise criteria LA max 85dBA Redevelopment existing rail corridor
- Receptors

Noise contours are based on a set distance above the local terrain level of 2.4m.



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# HELIDON TO CALVERT Year 2026 Night-time rail noise levels

**200 m**

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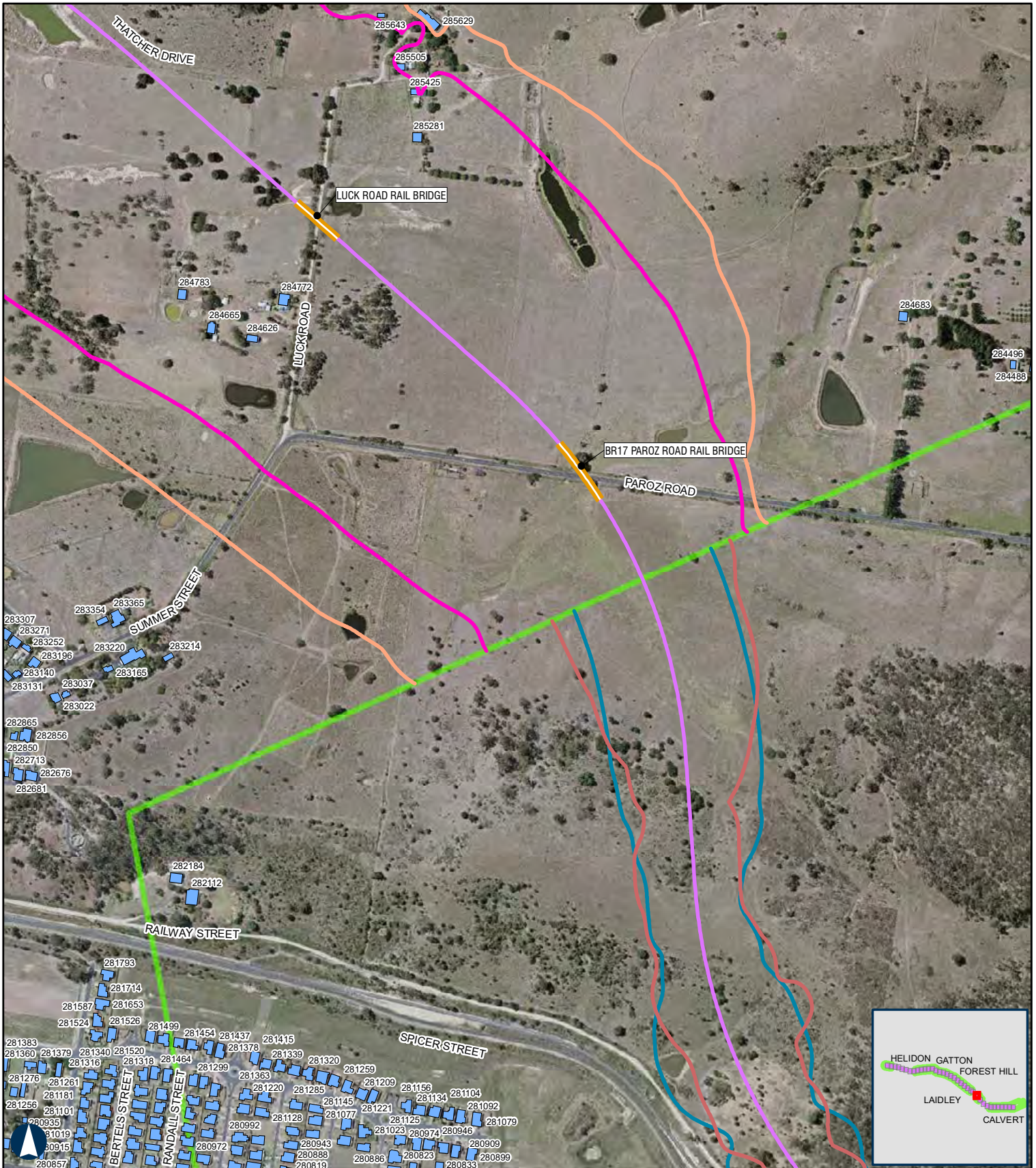
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Paper: A4      Scale: 1:7,500  
 Date: 12-Oct-2020  
 Author: JG

- Level Crossings
  - Project Extent
  - Crossing Loops
  - Rail Alignment/Centreline
  - Bridges and Viaducts
  - Little Liverpool Range tunnel
  - Noise Assessment Area – Upgrading Existing Railway
  - Night-time noise criteria LAeq9hr 55dBA New rail corridor
  - Night-time noise criteria LAeq9hr 60dBA Redevelopment existing rail corridor
  - Night-time noise criteria LA max 80dBA New rail corridor
  - Night-time noise criteria LA max 85dBA Redevelopment existing rail corridor
  - Receptors
- Noise contours are based on a set distance above the local terrain level of 2.4m.

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# HELIDON TO CALVERT Year 2026 Night-time rail noise levels

200 m

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Date: 12-Oct-2020  
Author: JG

Scale: 1:7,500

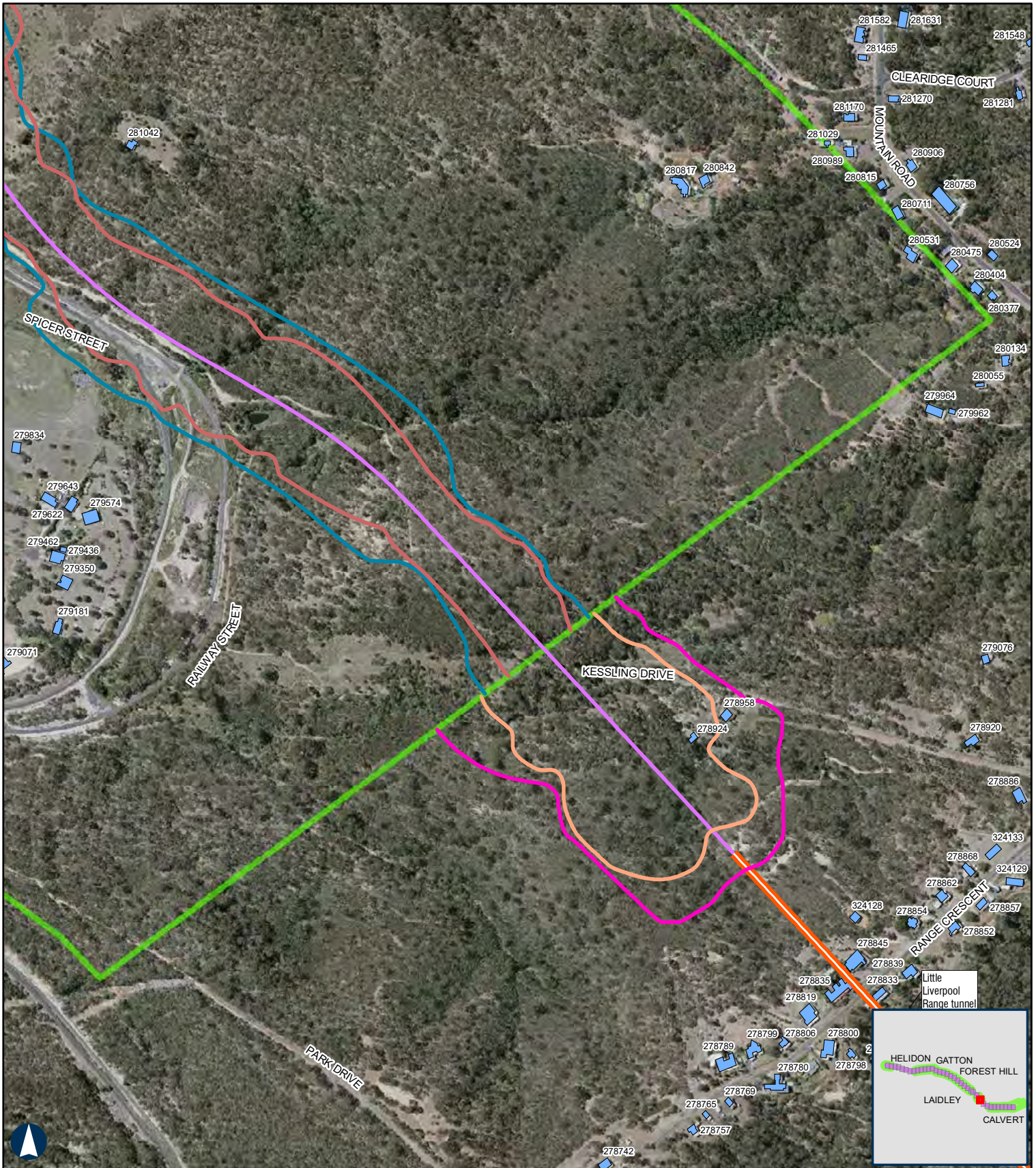
- Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway
- Night-time noise criteria LAeq9hr 55dBA New rail corridor
- Night-time noise criteria LAeq9hr 60dBA Redevelopment existing rail corridor
- Night-time noise criteria LA max 80dBA New rail corridor
- Night-time noise criteria LA max 85dBA Redevelopment existing rail corridor
- Receptors

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## HELIDON TO CALVERT Year 2026 Night-time rail noise levels

## APPENDIX D - Map 27 of 36

200 m

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 Date: 12-Oct-2020  
 Author: JG

- ✕ Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway

Noise contours are based on a set distance above the local terrain level of 2.4m.

- Night-time noise criteria LAeq9hr 55dBA New rail corridor
- Night-time noise criteria LAeq9hr 60dBA Redevelopment existing rail corridor
- Night-time noise criteria LA max 80dBA New rail corridor
- Night-time noise criteria LA max 85dBA Redevelopment existing rail corridor
- Receptors



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# HELIDON TO CALVERT Year 2026 Night-time rail noise levels

200 m

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 Author: JG

- Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway

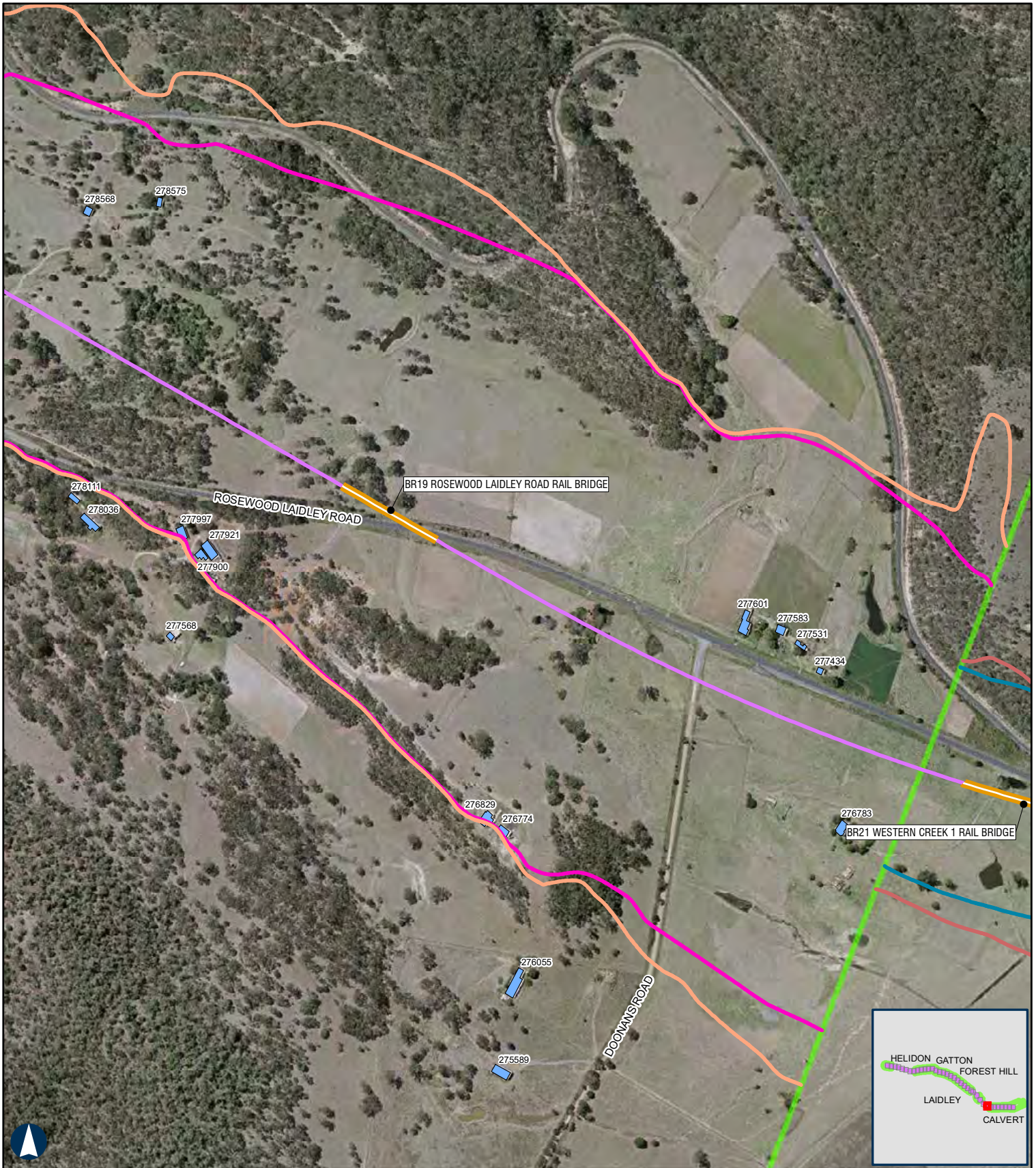
Noise contours are based on a set distance above the local terrain level of 2.4m.

- Night-time noise criteria LAeq9hr 55dBA New rail corridor
- Night-time noise criteria LAeq9hr 60dBA Redevelopment existing rail corridor
- Night-time noise criteria LA max 80dBA New rail corridor
- Night-time noise criteria LA max 85dBA Redevelopment existing rail corridor
- Receptors



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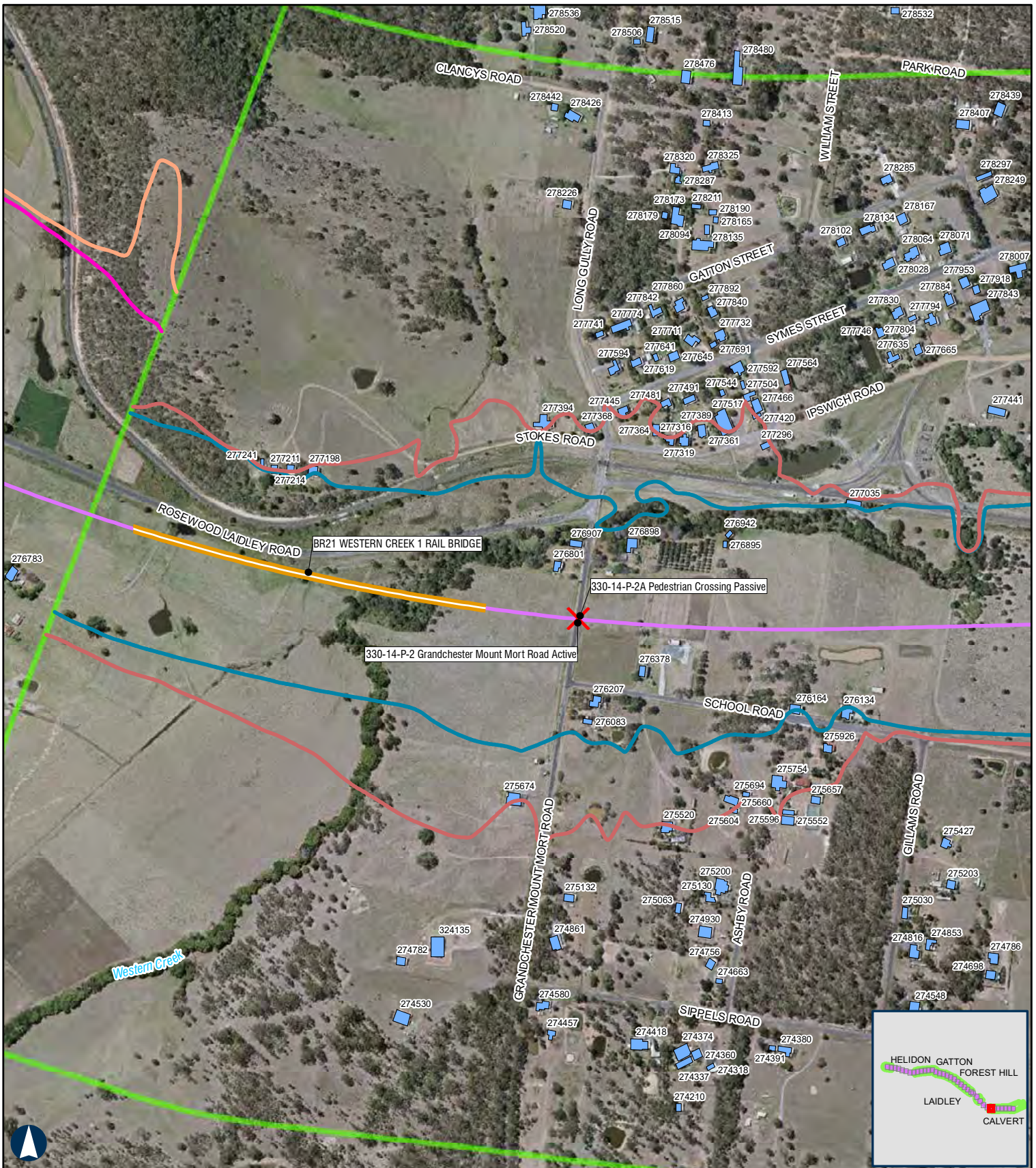


**HELIDON TO CALVERT** Year 2026 Night-time rail noise levels APPENDIX D - Map 29 of 36

<p><b>200 m</b></p> <p>Coordinate System: GDA 1994 MGA Zone 56</p> <p>ARTC makes no representation or warranty and assumes no duty of care or other responsibility to any party as to the completeness, accuracy or suitability of the information contained in this GIS map. The GIS map has been prepared from material provided to ARTC by an external source and ARTC has not taken any steps to verify the completeness, accuracy or suitability of that material.</p> <p>ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information contained within this GIS map.</p> <p>Paper: A4      Scale: 1:7,500          Date: 12-Oct-2020          Author: JG</p>	<ul style="list-style-type: none"> <li><span style="color: red; font-size: 2em;">✕</span> Level Crossings</li> <li><span style="border-bottom: 2px solid black; width: 20px; display: inline-block;"></span> Project Extent</li> <li><span style="border-bottom: 2px solid grey; width: 20px; display: inline-block;"></span> Crossing Loops</li> <li><span style="border-bottom: 2px solid purple; width: 20px; display: inline-block;"></span> Rail Alignment/Centreline</li> <li><span style="border-bottom: 2px solid orange; width: 20px; display: inline-block;"></span> Bridges and Viaducts</li> <li><span style="border-bottom: 2px solid red; width: 20px; display: inline-block;"></span> Little Liverpool Range tunnel</li> <li><span style="border: 2px solid green; width: 20px; display: inline-block;"></span> Noise Assessment Area – Upgrading Existing Railway</li> </ul>	<ul style="list-style-type: none"> <li><span style="border-bottom: 2px solid orange; width: 20px; display: inline-block;"></span> Night-time noise criteria LAeq9hr 55dBA New rail corridor</li> <li><span style="border-bottom: 2px solid red; width: 20px; display: inline-block;"></span> Night-time noise criteria LAeq9hr 60dBA Redevelopment existing rail corridor</li> <li><span style="border-bottom: 2px solid pink; width: 20px; display: inline-block;"></span> Night-time noise criteria LA max 80dBA New rail corridor</li> <li><span style="border-bottom: 2px solid blue; width: 20px; display: inline-block;"></span> Night-time noise criteria LA max 85dBA Redevelopment existing rail corridor</li> <li><span style="border: 1px solid blue; width: 10px; height: 10px; display: inline-block;"></span> Receptors</li> </ul>	<p>Noise contours are based on a set distance above the local terrain level of 2.4m.</p>
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# HELIDON TO CALVERT Year 2026 Night-time rail noise levels

200 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:7,500  
 Date: 12-Oct-2020  
 Author: JG

- X Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway

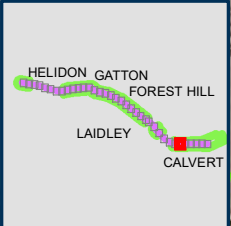
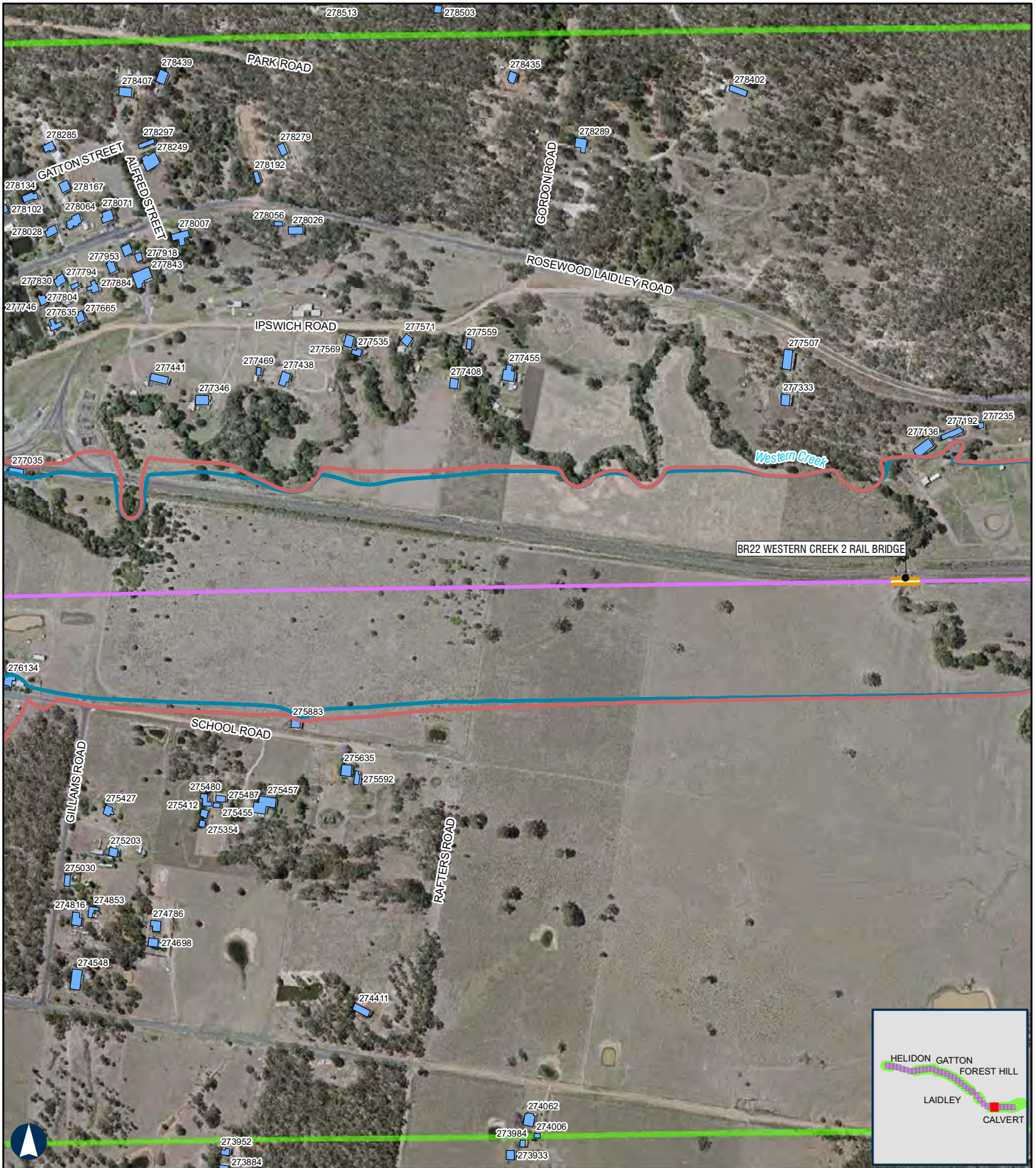
Noise contours are based on a set distance above the local terrain level of 2.4m.

- Night-time noise criteria LAeq9hr 55dBA New rail corridor
- Night-time noise criteria LAeq9hr 60dBA Redevelopment existing rail corridor
- Night-time noise criteria LA max 80dBA New rail corridor
- Night-time noise criteria LA max 85dBA Redevelopment existing rail corridor
- Receptors



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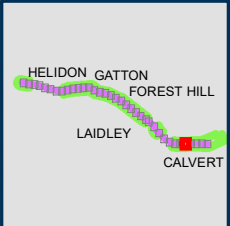
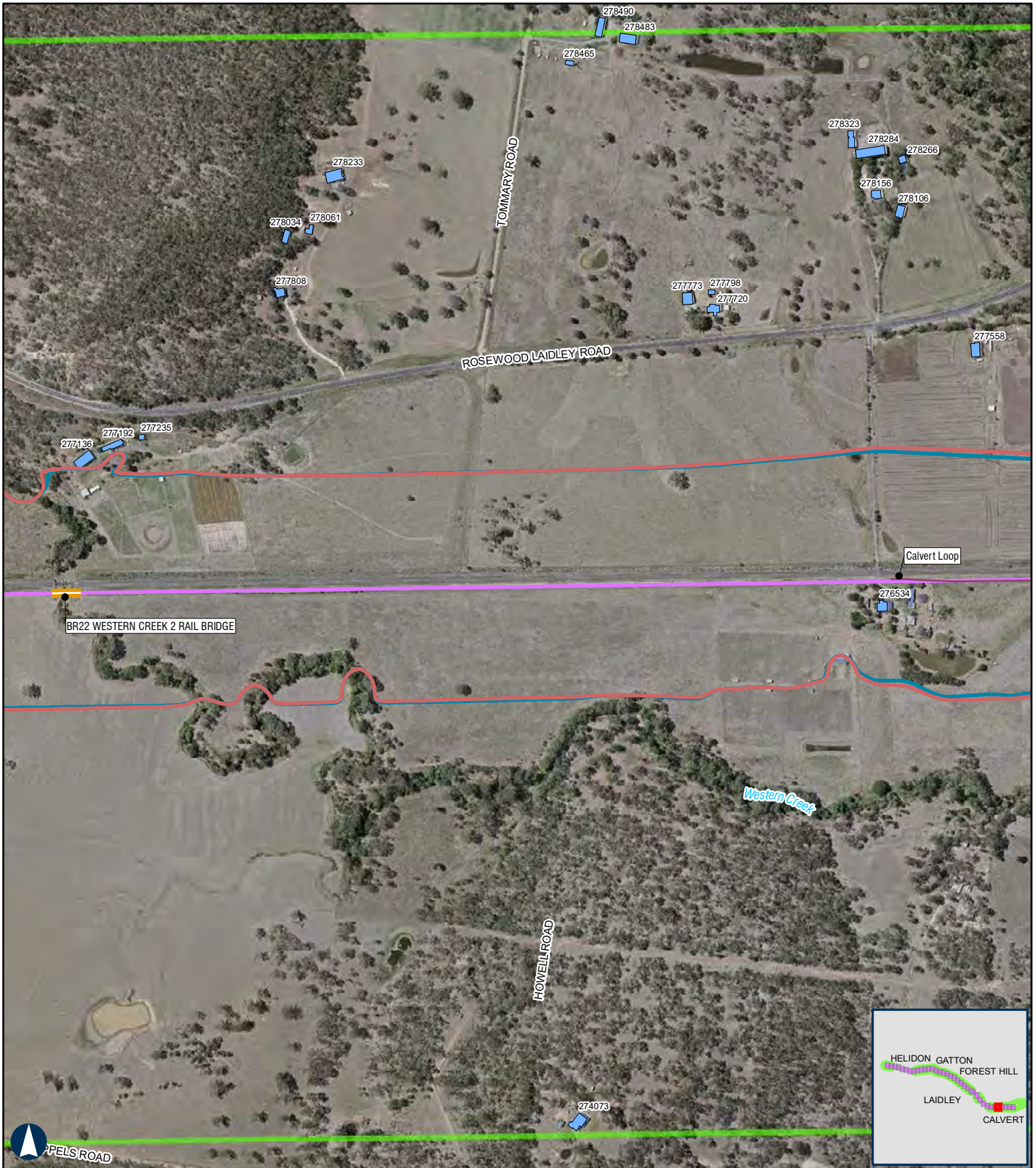


**HELIDON TO CALVERT** Year 2026 Night-time rail noise levels APPENDIX D - Map 31 of 36

<p><b>200 m</b></p> <p>Coordinate System: GDA 1994 MGA Zone 56</p> <p>ARTC makes no representation or warranty and assumes no duty of care or other responsibility to any party as to the completeness, accuracy or suitability of the information contained in this GIS map. The GIS map has been prepared from material provided to ARTC by an external source and ARTC has not taken any steps to verify the completeness, accuracy or suitability of that material.</p> <p>ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information contained within this GIS map.</p> <p>Paper: A4 Date: 12-Oct-2020 Author: JG</p>	<ul style="list-style-type: none"> <li><span style="color: red; font-size: 2em;">X</span> Level Crossings</li> <li><span style="border-bottom: 2px solid black; width: 20px; display: inline-block;"></span> Project Extent</li> <li><span style="border-bottom: 2px solid brown; width: 20px; display: inline-block;"></span> Crossing Loops</li> <li><span style="border-bottom: 2px solid purple; width: 20px; display: inline-block;"></span> Rail Alignment/Centreline</li> <li><span style="border-bottom: 2px solid orange; width: 20px; display: inline-block;"></span> Bridges and Viaducts</li> <li><span style="border-bottom: 2px solid brown; width: 20px; display: inline-block;"></span> Little Liverpool Range tunnel</li> <li><span style="border-bottom: 2px solid green; width: 20px; display: inline-block;"></span> Noise Assessment Area – Upgrading Existing Railway</li> </ul>	<ul style="list-style-type: none"> <li><span style="border-bottom: 2px solid orange; width: 20px; display: inline-block;"></span> Night-time noise criteria LAeq9hr 55dBA New rail corridor</li> <li><span style="border-bottom: 2px solid orange; width: 20px; display: inline-block;"></span> Night-time noise criteria LAeq9hr 60dBA Redevelopment existing rail corridor</li> <li><span style="border-bottom: 2px solid pink; width: 20px; display: inline-block;"></span> Night-time noise criteria LA max 80dBA New rail corridor</li> <li><span style="border-bottom: 2px solid blue; width: 20px; display: inline-block;"></span> Night-time noise criteria LA max 85dBA Redevelopment existing rail corridor</li> <li><span style="border: 1px solid blue; width: 10px; height: 10px; display: inline-block;"></span> Receptors</li> </ul>	<p>Noise contours are based on a set distance above the local terrain level of 2.4m.</p>
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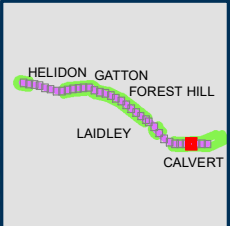
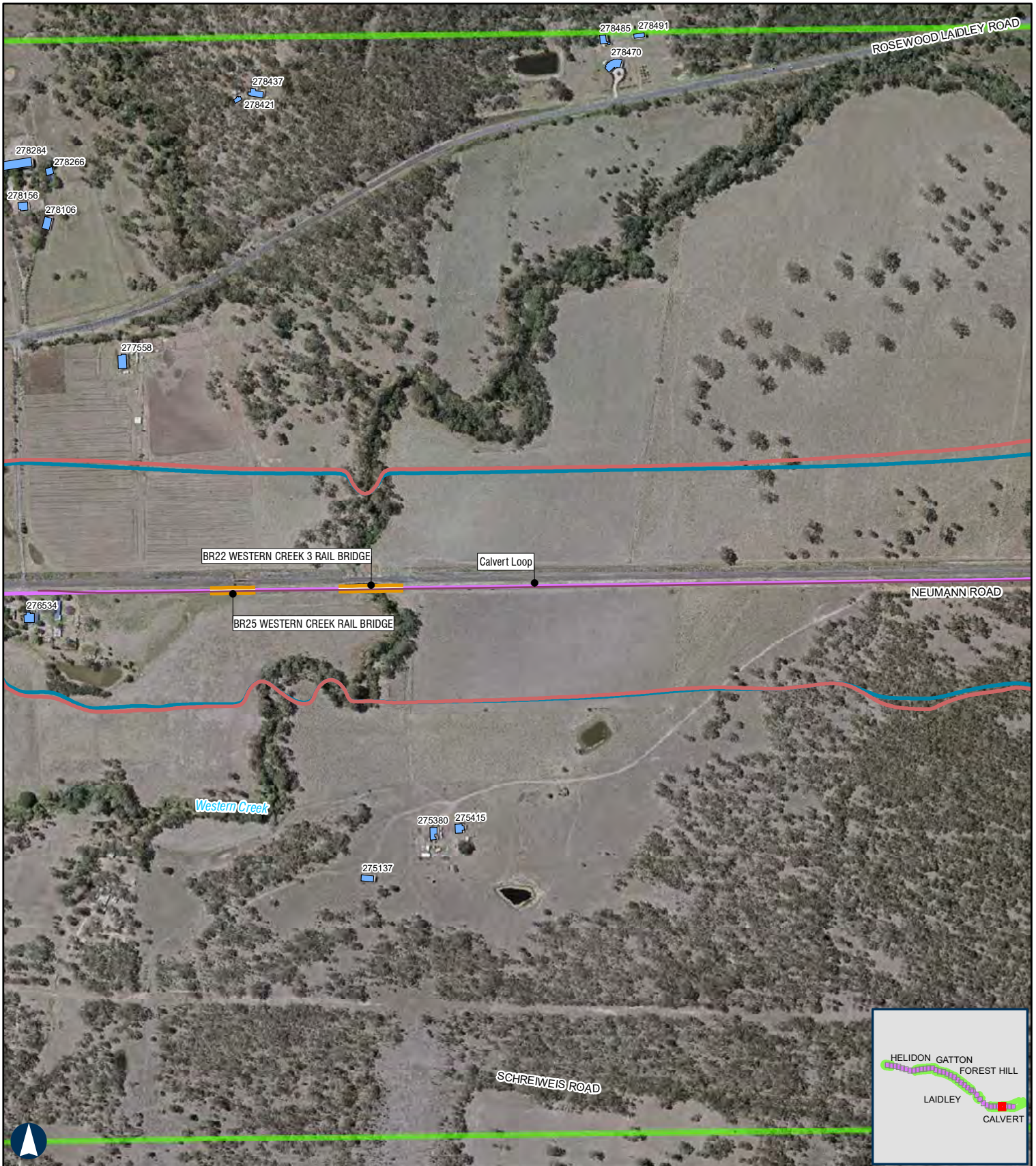


**HELIDON TO CALVERT** Year 2026 Night-time rail noise levels APPENDIX D - Map 32 of 36

<p><b>200 m</b></p> <p>Coordinate System: GDA 1994 MGA Zone 56</p> <p>ARTC makes no representation or warranty and assumes no duty of care or other responsibility to any party as to the completeness, accuracy or suitability of the information contained in this GIS map. The GIS map has been prepared from material provided to ARTC by an external source and ARTC has not taken any steps to verify the completeness, accuracy or suitability of that material.</p> <p>ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information contained within this GIS map.</p> <p>Paper: A4      Scale: 1:7,500 Date: 12-Oct-2020 Author: JG</p>	<ul style="list-style-type: none"> <li><span style="color: red; font-size: 2em;">X</span> Level Crossings</li> <li><span style="border-bottom: 2px solid black; width: 20px; display: inline-block;"></span> Project Extent</li> <li><span style="border-bottom: 2px solid purple; width: 20px; display: inline-block;"></span> Crossing Loops</li> <li><span style="border-bottom: 2px solid purple; width: 20px; display: inline-block;"></span> Rail Alignment/Centreline</li> <li><span style="border-bottom: 2px solid orange; width: 20px; display: inline-block;"></span> Bridges and Viaducts</li> <li><span style="border-bottom: 2px solid orange; width: 20px; display: inline-block;"></span> Little Liverpool Range tunnel</li> <li><span style="border-bottom: 2px solid green; width: 20px; display: inline-block;"></span> Noise Assessment Area – Upgrading Existing Railway</li> </ul>	<ul style="list-style-type: none"> <li><span style="border-bottom: 2px solid orange; width: 20px; display: inline-block;"></span> Night-time noise criteria LAeq9hr 55dBA New rail corridor</li> <li><span style="border-bottom: 2px solid red; width: 20px; display: inline-block;"></span> Night-time noise criteria LAeq9hr 60dBA Redevelopment existing rail corridor</li> <li><span style="border-bottom: 2px solid blue; width: 20px; display: inline-block;"></span> Night-time noise criteria LA max 80dBA New rail corridor</li> <li><span style="border-bottom: 2px solid blue; width: 20px; display: inline-block;"></span> Night-time noise criteria LA max 85dBA Redevelopment existing rail corridor</li> <li><span style="border: 1px solid blue; width: 10px; height: 10px; display: inline-block;"></span> Receptors</li> </ul>	<p>Noise contours are based on a set distance above the local terrain level of 2.4m.</p>
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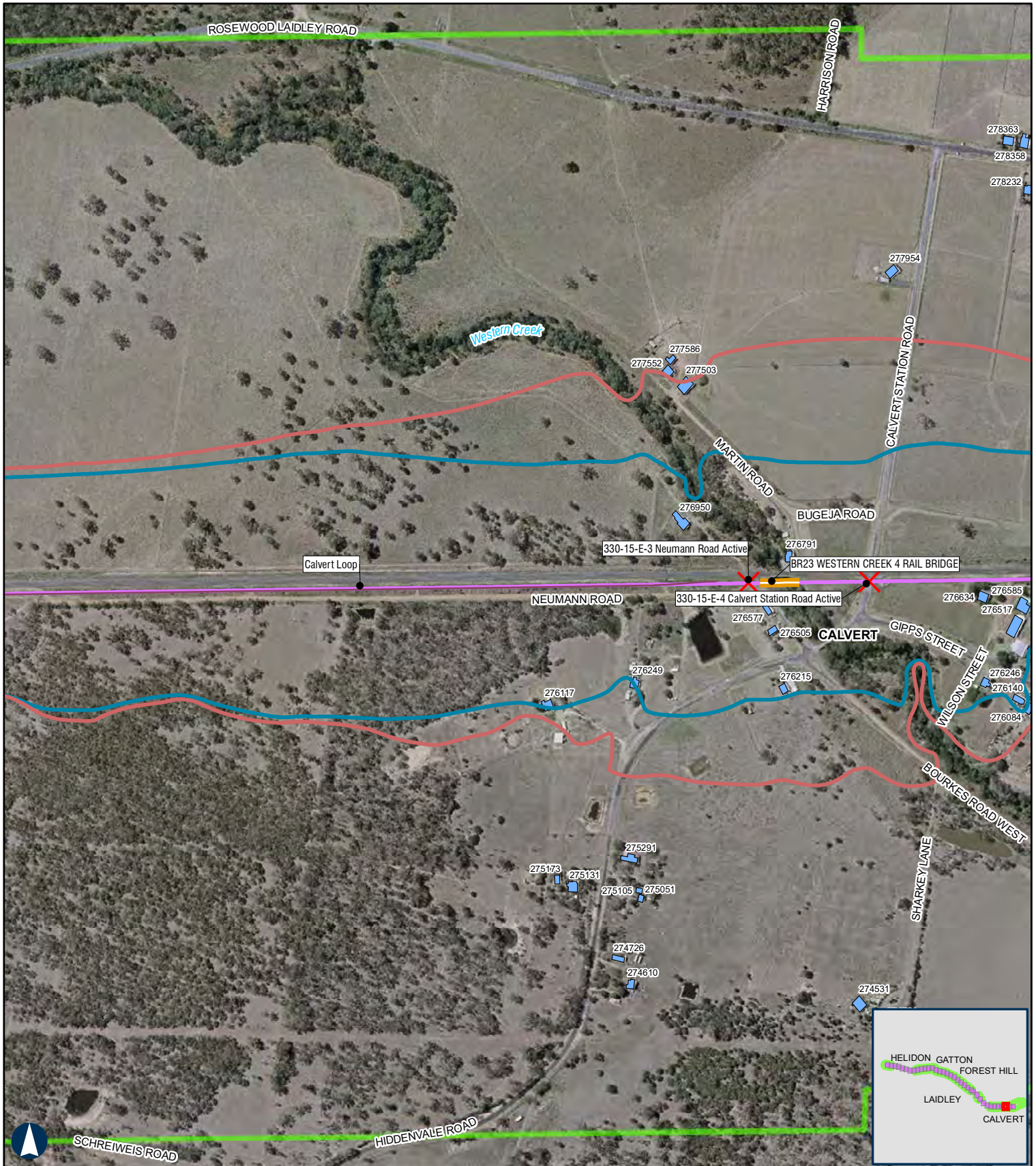
**HELIDON TO CALVERT** Year 2026 Night-time rail noise levels APPENDIX D - Map 33 of 36

<p><b>200 m</b></p> <p>Coordinate System: GDA 1994 MGA Zone 56</p> <p>ARTC makes no representation or warranty and assumes no duty of care or other responsibility to any party as to the completeness, accuracy or suitability of the information contained in this GIS map. The GIS map has been prepared from material provided to ARTC by an external source and ARTC has not taken any steps to verify the completeness, accuracy or suitability of that material.</p> <p>ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information contained within this GIS map.</p> <p>Paper: A4      Scale: 1:7,500          Date: 12-Oct-2020          Author: JG</p>	<ul style="list-style-type: none"> <li><span style="color: red; font-size: 2em;">✕</span> Level Crossings</li> <li><span style="border-bottom: 2px solid black; width: 20px; display: inline-block;"></span> Project Extent</li> <li><span style="border-bottom: 2px solid grey; width: 20px; display: inline-block;"></span> Crossing Loops</li> <li><span style="border-bottom: 2px solid purple; width: 20px; display: inline-block;"></span> Rail Alignment/Centreline</li> <li><span style="border-bottom: 2px solid orange; width: 20px; display: inline-block;"></span> Bridges and Viaducts</li> <li><span style="border-bottom: 2px solid brown; width: 20px; display: inline-block;"></span> Little Liverpool Range tunnel</li> <li><span style="border: 2px solid green; width: 20px; display: inline-block;"></span> Noise Assessment Area – Upgrading Existing Railway</li> </ul>	<ul style="list-style-type: none"> <li><span style="border-bottom: 2px solid orange; width: 20px; display: inline-block;"></span> Night-time noise criteria LAeq9hr 55dBA New rail corridor</li> <li><span style="border-bottom: 2px solid red; width: 20px; display: inline-block;"></span> Night-time noise criteria LAeq9hr 60dBA Redevelopment existing rail corridor</li> <li><span style="border-bottom: 2px solid magenta; width: 20px; display: inline-block;"></span> Night-time noise criteria LA max 80dBA New rail corridor</li> <li><span style="border-bottom: 2px solid blue; width: 20px; display: inline-block;"></span> Night-time noise criteria LA max 85dBA Redevelopment existing rail corridor</li> <li><span style="border: 1px solid blue; width: 10px; height: 10px; display: inline-block;"></span> Receptors</li> </ul>	<p>Noise contours are based on a set distance above the local terrain level of 2.4m.</p>
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## HELIDON TO CALVERT Year 2026 Night-time rail noise levels

APPENDIX D - Map 34 of 36

200 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:7,500  
 Date: 12-Oct-2020  
 Author: JG

- X Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway

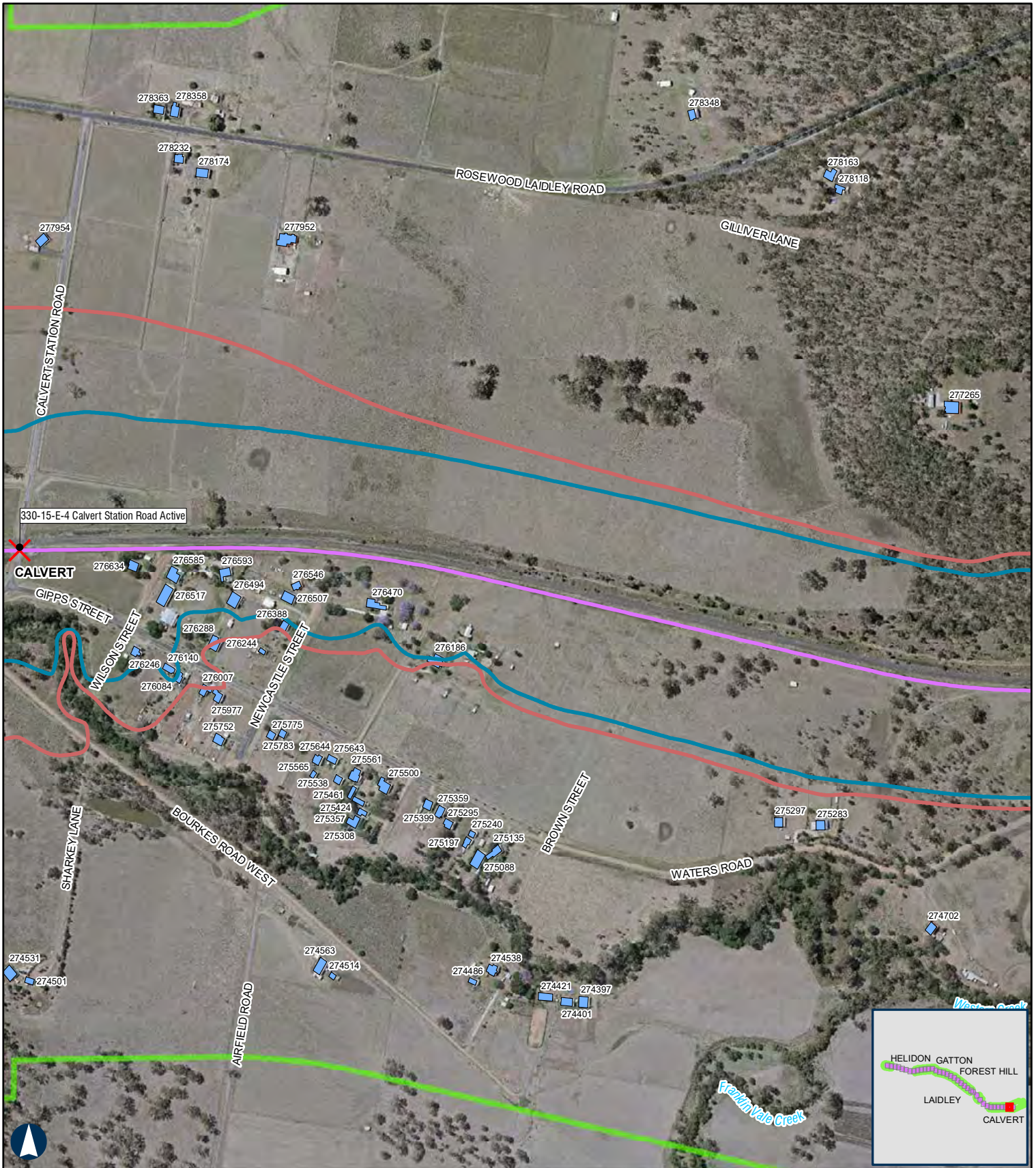
Noise contours are based on a set distance above the local terrain level of 2.4m.

- Night-time noise criteria LAeq9hr 55dBA New rail corridor
- Night-time noise criteria LAeq9hr 60dBA Redevelopment existing rail corridor
- Night-time noise criteria LA max 80dBA New rail corridor
- Night-time noise criteria LA max 85dBA Redevelopment existing rail corridor
- Receptors



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## HELIDON TO CALVERT Year 2026 Night-time rail noise levels

APPENDIX D - Map 35 of 36

200 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:7,500  
 Date: 12-Oct-2020  
 Author: JG

- ✗ Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway

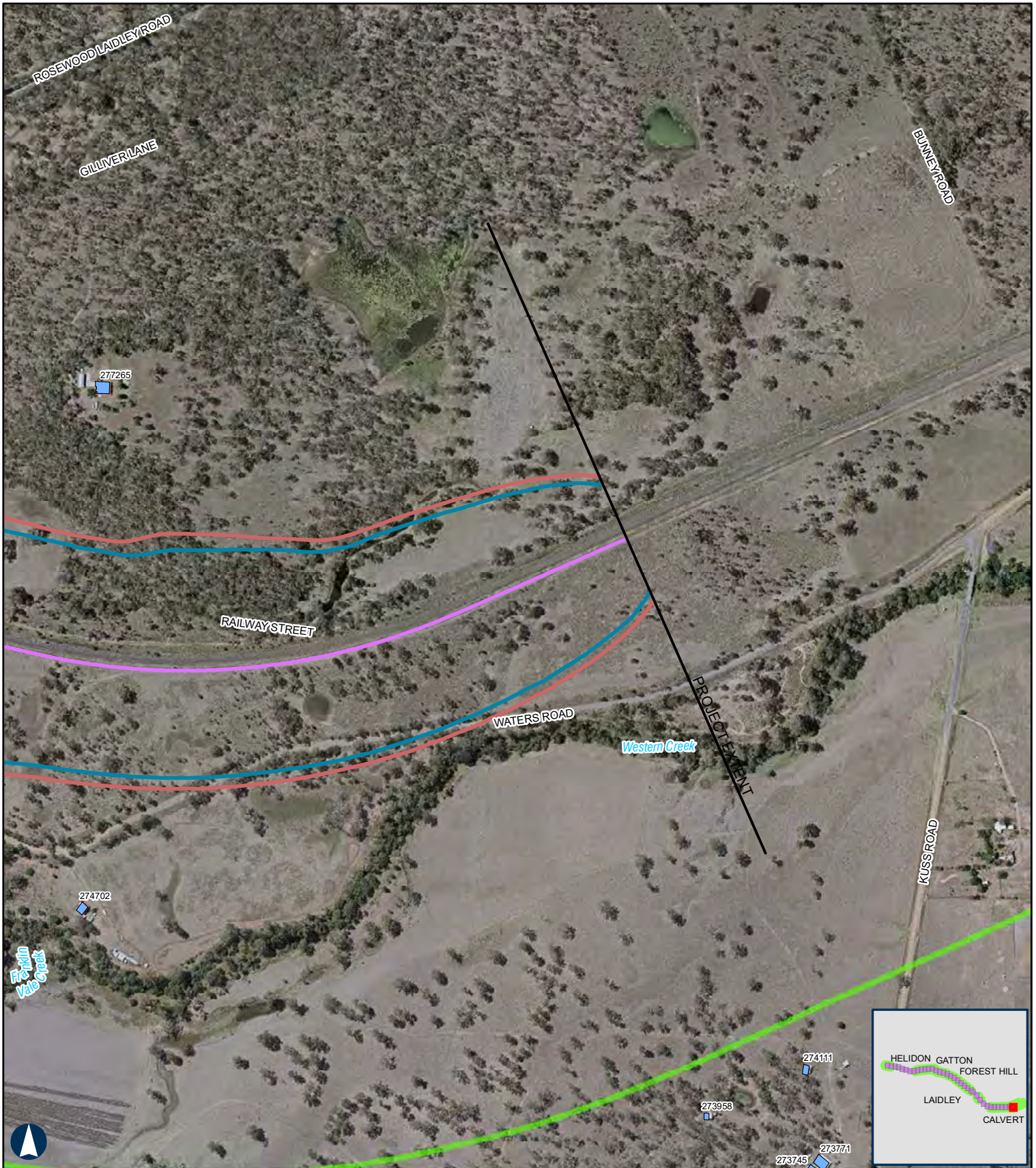
Noise contours are based on a set distance above the local terrain level of 2.4m.

- Night-time noise criteria LAeq9hr 55dBA New rail corridor
- Night-time noise criteria LAeq9hr 60dBA Redevelopment existing rail corridor
- Night-time noise criteria LA max 80dBA New rail corridor
- Night-time noise criteria LA max 85dBA Redevelopment existing rail corridor
- Receptors



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# HELIDON TO CALVERT Year 2026 Night-time rail noise levels

200 m

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Paper: A4 Scale: 1:7,500  
 Date: 12-Oct-2020  
 Author: JG

- Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway
- Receptors
- Night-time noise criteria LAeq9hr 55dBA New rail corridor
- Night-time noise criteria LAeq9hr 60dBA Redevelopment existing rail corridor
- Night-time noise criteria LA max 80dBA New rail corridor
- Night-time noise criteria LA max 85dBA Redevelopment existing rail corridor

Noise contours are based on a set distance above the local terrain level of 2.4m.



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APPENDIX

P

Operational Railway Noise and  
Vibration Technical Report

**Appendix E** Predicted Airborne Railway  
Noise Levels—Year 2040  
Design Year

HELIDON TO CALVERT ENVIRONMENTAL IMPACT STATEMENT



# APPENDIX E

Predicted airborne railway noise levels – Year 2040 Design year

The predicted railway noise levels for the future railway operations in 2040 are detailed in the following table and noise contour maps.

The predicted noise levels are provided for the identified sensitive receptors within the study area. This includes all sensitive receptors where the predicted noise levels triggered an investigation of noise mitigation. The sensitive receptors above the tunnel alignment are not included as there were no airborne noise emissions from train passbys within the tunnel.

The symbol (-) in the table denotes there was not a prediction of future rail noise as the sensitive receptor was located more than 2 km from the source of noise or, for existing rail noise, the receptors were outside the assessment area where the Project tied into the existing rail corridors.

Following the tabulated results are the predicted noise contour maps for the railway operations at the project design year 2040. The noise contours have been presented as the daytime and night-time assessment criteria applied by ARTC on the Project. All noise contours are predicted at 2.4 m above ground level and there are no airborne noise predictions where the trains are within the Little Liverpool Range Tunnel.

The noise contour maps cover the entire project route and provide a detailed presentation of the assessment of noise based on the daytime and night-time railway noise assessment criteria. There are some sensitive receptors not shown in the noise contour maps as they are outside of the mapping extent. Identified receptors that are not presented in the maps are further from the alignment, where the predicted noise levels are lower than presented in the maps and the daytime and night-time noise criteria are expected to be readily achieved.

The noise contours are calculated from the interpolation of thousands of calculation points and provide an overview of the railway noise levels to assist the interpretation of the assessment and its outcomes. The tabulated noise levels at the individual sensitive receptors should be referenced when assessing railway noise levels against the criteria.



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
270543	Upgrade	65	60	85	34	35	60	41	41	65	6.4	6.3	4.7
270697	Upgrade	65	60	85	36	37	62	42	42	66	6.0	5.9	4.4
270905	Upgrade	65	60	85	0	0	0	20	20	44	19.7	20.1	44.2
271010	Upgrade	65	60	85	35	34	57	44	44	67	8.9	9.4	9.6
271236	Upgrade	65	60	85	12	12	36	36	35	55	24.2	23.2	19.0
271258	Upgrade	65	60	85	21	21	45	26	26	51	5.1	5.1	6.0
271265	Upgrade	65	60	85	14	14	38	36	35	55	22.5	21.5	17.3
271324	Upgrade	65	60	85	22	22	45	27	27	51	5.1	5.1	6.4
271370	Upgrade	65	60	85	37	37	60	44	44	66	6.4	7.2	6.2
271377	Upgrade	65	60	85	37	36	60	43	43	66	5.8	6.7	5.6
271388	Upgrade	65	60	85	32	32	57	43	44	67	11.6	11.5	10.0
271392	Upgrade	65	60	85	30	28	54	36	36	56	6.6	7.5	1.5
271399	Upgrade	65	60	85	36	36	60	43	43	66	6.7	7.3	6.2
271407	Upgrade	65	60	85	36	36	60	43	44	67	7.3	7.3	7.5
271420	Upgrade	65	60	85	39	38	62	45	45	67	6.1	6.8	5.3
271498	Upgrade	65	60	85	30	30	54	37	37	59	6.7	7.3	4.7
271504	Upgrade	65	60	85	40	41	64	47	47	71	6.6	6.6	6.5
271519	Upgrade	65	60	85	41	41	64	47	48	71	6.5	6.5	6.3
271540	Upgrade	65	60	85	41	41	65	47	48	71	6.4	6.4	6.0
271541	Upgrade	65	60	85	38	38	61	46	46	69	7.8	7.6	8.1
271556	Upgrade	65	60	85	39	39	63	46	46	68	6.3	7.0	5.7
271583	Upgrade	65	60	85	43	43	67	48	49	72	5.6	5.6	5.2
271603	Upgrade	65	60	85	41	41	65	48	48	71	6.6	6.6	6.3
271670	Upgrade	65	60	85	23	24	45	28	29	52	5.0	5.0	6.6
271684	Upgrade	65	60	85	41	42	65	48	48	71	6.4	6.4	6.3
271788	Upgrade	65	60	85	24	24	46	29	29	53	5.0	5.0	6.5
271854	Upgrade	65	60	85	42	42	64	47	47	70	5.5	5.6	5.6
271859	Upgrade	65	60	85	26	26	48	31	31	54	5.0	4.9	6.2
271902	Upgrade	65	60	85	43	43	65	49	49	71	5.5	5.6	5.7
272056	Upgrade	65	60	85	42	42	66	46	47	70	4.2	4.2	4.3
272075	Upgrade	65	60	85	27	27	49	32	32	56	4.9	5.0	6.2
272166	Upgrade	65	60	85	27	27	49	32	32	55	5.0	4.8	6.5
272681	Upgrade	65	60	85	44	44	66	49	49	73	5.1	5.1	6.4
272726	Upgrade	65	60	85	44	44	67	49	50	73	5.2	5.2	6.2
272815	Upgrade	65	60	85	37	37	60	45	46	69	8.6	8.9	9.0
272898	Upgrade	65	60	85	44	44	67	49	50	73	5.3	5.4	5.6
272950	Upgrade	65	60	85	44	44	67	49	49	73	5.0	5.2	5.6
273099	Upgrade	65	60	85	45	44	66	51	51	72	6.1	6.6	6.3
273101	Upgrade	65	60	85	31	32	56	41	42	65	9.8	10.0	9.4
273114	Upgrade	65	60	85	32	33	57	43	43	67	10.7	10.6	9.4
273123	Upgrade	65	60	85	43	43	63	50	50	71	7.1	7.3	8.1
273140	Upgrade	65	60	85	46	45	69	51	51	74	5.8	6.4	5.2
273181	Upgrade	65	60	85	38	38	62	46	46	70	8.1	8.2	8.4
273191	Upgrade	65	60	85	43	43	63	50	50	72	7.3	7.5	8.3
273209	Upgrade	65	60	85	36	36	61	45	46	69	9.4	9.4	8.6
273221	Upgrade	65	60	85	41	41	64	48	48	70	6.9	7.5	5.7
273229	Upgrade	65	60	85	41	41	65	48	48	70	6.4	6.9	4.7
273232	Upgrade	65	60	85	41	41	63	48	48	71	7.1	7.6	7.5
273248	Upgrade	65	60	85	46	46	69	50	51	74	4.7	4.8	5.4
273255	Upgrade	65	60	85	46	46	69	51	51	75	5.2	5.1	5.6
273281	Upgrade	65	60	85	42	42	65	48	48	69	5.8	5.9	4.8

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax
273326	Upgrade	65	60	85	36	36	60	44	45	68	8.5	8.7	8.7
273373	Upgrade	65	60	85	46	46	68	49	49	73	3.4	3.4	4.8
273393	Upgrade	65	60	85	40	40	63	49	49	72	8.5	8.4	8.7
273443	Upgrade	65	60	85	35	35	58	44	45	68	9.6	9.6	9.5
273456	Upgrade	65	60	85	42	41	65	48	48	69	6.0	6.8	4.1
273464	Upgrade	65	60	85	38	38	62	46	47	70	8.5	8.5	7.9
273499	Upgrade	65	60	85	37	37	61	46	46	69	9.0	9.1	8.7
273506	Upgrade	65	60	85	45	45	68	51	51	73	6.4	6.9	5.0
273512	Upgrade	65	60	85	34	34	58	41	42	65	7.4	7.4	7.1
273518	Upgrade	65	60	85	38	38	62	46	46	69	8.3	8.2	7.2
273528	Upgrade	65	60	85	36	36	60	44	45	68	8.3	8.3	8.0
273543	Upgrade	65	60	85	40	41	64	49	49	72	8.3	8.3	8.5
273589	Upgrade	65	60	85	43	43	68	48	48	72	5.2	5.2	4.5
273610	Upgrade	65	60	85	43	43	68	49	49	73	5.6	5.5	4.9
273626	Upgrade	65	60	85	43	43	68	48	49	73	5.4	5.4	4.8
273646	Upgrade	65	60	85	45	45	70	50	50	74	5.0	5.0	4.3
273661	Upgrade	65	60	85	38	37	62	45	44	65	6.3	7.0	3.4
273667	Upgrade	65	60	85	39	38	61	45	45	66	6.5	7.1	4.4
273669	Upgrade	65	60	85	46	46	67	52	52	74	6.1	6.4	6.9
273721	Upgrade	65	60	85	46	46	68	52	52	73	5.5	6.1	5.1
273737	Upgrade	65	60	85	46	46	68	51	51	74	5.1	5.1	5.9
273742	Upgrade	65	60	85	40	40	63	48	48	71	7.1	7.5	8.6
273745	Upgrade	65	60	85	47	47	69	49	50	73	2.9	3.0	4.0
273762	Upgrade	65	60	85	44	44	66	51	51	73	6.7	7.0	7.7
273763	Upgrade	65	60	85	37	37	60	43	43	63	6.0	6.5	3.9
273771	Upgrade	65	60	85	47	47	69	50	50	73	3.0	3.0	4.0
273776	Upgrade	65	60	85	37	37	59	43	43	64	6.3	6.8	4.4
273842	Upgrade	65	60	85	44	44	67	50	50	73	5.7	5.7	5.8
273883	Upgrade	65	60	85	39	39	62	46	47	69	7.5	7.6	7.6
273884	Upgrade	65	60	85	44	44	67	49	49	73	5.3	5.4	6.0
273886	Upgrade	65	60	85	45	45	67	52	53	75	7.3	7.7	7.8
273933	Upgrade	65	60	85	46	46	70	51	51	75	5.2	5.4	5.0
273952	Upgrade	65	60	85	46	46	70	52	52	75	5.5	5.7	5.2
273958	Upgrade	65	60	85	48	48	70	51	51	75	3.4	3.5	4.4
273984	Upgrade	65	60	85	46	46	69	51	51	74	5.3	5.3	4.9
273989	Upgrade	65	60	85	40	40	63	48	48	71	7.3	7.5	8.5
274006	Upgrade	65	60	85	47	47	71	52	52	76	5.1	5.0	5.6
274020	Upgrade	65	60	85	41	41	64	48	49	72	7.1	7.3	7.8
274062	Upgrade	65	60	85	48	48	71	53	53	76	4.9	5.1	5.3
274073	Upgrade	65	60	85	48	48	71	53	53	77	4.9	4.8	5.7
274111	Upgrade	65	60	85	48	48	70	50	51	74	2.8	2.8	4.0
274210	Upgrade	65	60	85	47	47	71	55	55	76	7.8	8.4	4.7
274318	Upgrade	65	60	85	49	49	70	56	56	77	7.0	7.0	7.2
274337	Upgrade	65	60	85	44	44	69	52	51	73	7.2	7.9	3.4
274360	Upgrade	65	60	85	50	50	71	58	57	78	7.6	7.6	7.2
274374	Upgrade	65	60	85	51	50	73	58	57	78	6.8	7.1	4.7
274380	Upgrade	65	60	85	49	49	70	56	56	77	7.1	7.3	7.0
274391	Upgrade	65	60	85	49	49	70	56	56	78	6.2	6.6	7.2
274397	Upgrade	65	60	85	49	49	70	55	55	78	6.4	6.6	7.9
274401	Upgrade	65	60	85	49	48	70	55	55	78	6.2	6.6	8.0
274411	Upgrade	65	60	85	48	48	71	53	54	77	5.5	5.6	5.9



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
274418	Upgrade	65	60	85	50	49	73	58	58	78	8.5	8.7	4.7
274421	Upgrade	65	60	85	48	48	70	55	55	77	6.4	6.7	7.9
274457	Upgrade	65	60	85	47	46	71	56	56	75	9.5	9.8	4.5
274486	Upgrade	65	60	85	48	47	69	54	54	76	6.6	7.1	7.2
274501	Upgrade	65	60	85	49	48	72	55	55	76	5.9	6.8	4.6
274514	Upgrade	65	60	85	47	47	69	54	54	75	7.1	7.3	6.5
274530	Upgrade	65	60	85	48	48	71	57	57	77	8.5	8.8	6.1
274531	Upgrade	65	60	85	48	48	71	55	55	77	6.5	7.1	5.9
274538	Upgrade	65	60	85	49	49	72	55	55	78	5.9	6.4	5.9
274548	Upgrade	65	60	85	48	48	70	54	54	76	6.0	6.3	5.8
274563	Upgrade	65	60	85	49	48	72	55	55	76	6.3	6.9	3.8
274580	Upgrade	65	60	85	50	49	74	59	58	79	8.7	9.1	4.7
274610	Upgrade	65	60	85	49	47	75	55	54	75	6.1	6.9	0.3
274663	Upgrade	65	60	85	48	48	70	55	55	76	7.1	7.1	5.7
274698	Upgrade	65	60	85	47	47	70	53	53	76	6.1	6.2	5.7
274702	Upgrade	65	60	85	51	52	75	57	57	81	5.7	5.8	5.5
274726	Upgrade	65	60	85	52	50	76	57	56	75	5.0	6.0	-0.7
274756	Upgrade	65	60	85	49	48	71	56	56	77	7.5	7.8	6.2
274782	Upgrade	65	60	85	49	49	73	58	58	79	8.7	9.1	6.2
274786	Upgrade	65	60	85	48	48	71	54	54	77	5.9	6.1	5.7
274816	Upgrade	65	60	85	49	49	71	56	56	78	7.1	7.4	6.8
274853	Upgrade	65	60	85	49	49	71	55	55	77	5.7	6.0	6.7
274861	Upgrade	65	60	85	49	48	73	58	57	78	8.6	9.0	4.5
274930	Upgrade	65	60	85	50	50	74	59	58	79	8.4	8.8	4.5
275030	Upgrade	65	60	85	50	50	73	57	57	79	7.2	7.4	6.3
275051	Upgrade	65	60	85	53	51	78	58	58	78	5.9	6.8	0.9
275063	Upgrade	65	60	85	51	50	75	59	58	80	7.9	8.4	4.7
275088	Upgrade	65	60	85	50	50	73	57	57	80	6.8	7.1	7.6
275105	Upgrade	65	60	85	53	52	78	60	59	79	6.3	7.2	0.3
275130	Upgrade	65	60	85	53	52	77	61	60	80	7.9	8.7	3.5
275131	Upgrade	65	60	85	53	52	80	60	59	79	6.3	7.1	-0.8
275132	Upgrade	65	60	85	52	51	77	60	60	80	7.8	8.7	3.0
275135	Upgrade	65	60	85	50	50	72	57	57	80	6.9	7.1	7.9
275137	Upgrade	65	60	85	51	52	75	56	57	81	5.2	5.2	5.4
275173	Upgrade	65	60	85	52	51	77	58	57	78	5.4	6.4	1.2
275197	Upgrade	65	60	85	49	49	71	55	55	78	6.0	6.6	6.3
275200	Upgrade	65	60	85	52	52	76	61	60	81	8.6	8.9	4.9
275203	Upgrade	65	60	85	51	51	73	57	57	80	5.7	6.1	7.1
275240	Upgrade	65	60	85	51	50	72	57	57	80	6.7	7.1	8.3
275283	Upgrade	65	60	85	53	53	77	60	60	84	6.8	6.8	6.6
275291	Upgrade	65	60	85	55	54	81	62	62	82	7.1	7.9	0.9
275295	Upgrade	65	60	85	51	51	73	57	57	80	6.1	6.6	7.7
275297	Upgrade	65	60	85	53	53	77	60	60	83	6.9	6.9	6.9
275308	Upgrade	65	60	85	50	49	74	56	56	76	5.8	6.6	1.9
275354	Upgrade	65	60	85	49	49	72	56	56	79	6.7	7.2	6.5
275357	Upgrade	65	60	85	50	49	72	56	56	77	6.0	6.6	5.2
275359	Upgrade	65	60	85	51	51	72	57	58	80	6.6	7.0	8.5
275380	Upgrade	65	60	85	52	52	76	57	58	82	5.3	5.2	5.4
275399	Upgrade	65	60	85	51	51	73	58	58	80	6.6	7.0	7.4
275412	Upgrade	65	60	85	49	49	72	57	57	79	7.5	7.9	6.6
275415	Upgrade	65	60	85	53	53	78	58	58	82	5.2	5.1	4.1

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
275424	Upgrade	65	60	85	49	49	71	55	56	79	6.3	6.6	7.8
275427	Upgrade	65	60	85	52	52	76	59	59	82	7.2	7.3	6.0
275455	Upgrade	65	60	85	47	47	72	53	53	77	5.6	6.1	5.3
275457	Upgrade	65	60	85	53	53	76	59	59	82	5.9	6.4	6.3
275461	Upgrade	65	60	85	50	49	74	55	55	77	5.6	6.5	3.2
275480	Upgrade	65	60	85	53	52	76	59	59	82	6.5	6.9	6.2
275487	Upgrade	65	60	85	53	53	75	59	59	82	5.7	6.2	6.9
275500	Upgrade	65	60	85	52	52	74	58	58	81	6.3	6.7	6.7
275520	Upgrade	65	60	85	54	53	80	63	62	83	8.8	9.4	3.8
275538	Upgrade	65	60	85	52	51	77	57	57	80	5.0	5.9	3.1
275552	Upgrade	65	60	85	52	51	77	61	60	81	8.4	9.2	3.9
275561	Upgrade	65	60	85	52	51	75	58	58	81	6.2	6.8	5.6
275565	Upgrade	65	60	85	51	50	76	57	57	77	5.5	6.4	1.7
275589	New	60	55	80	-	-	-	51	51	74	-	-	-
275592	Upgrade	65	60	85	53	53	77	59	59	83	6.2	6.2	5.8
275596	Upgrade	65	60	85	50	49	73	57	57	77	7.6	8.0	4.2
275604	Upgrade	65	60	85	48	47	73	59	59	79	10.7	11.3	5.8
275635	Upgrade	65	60	85	53	53	77	59	60	83	6.2	6.4	6.7
275643	Upgrade	65	60	85	52	52	76	59	59	81	6.2	6.9	4.7
275644	Upgrade	65	60	85	54	53	80	59	59	81	5.2	6.1	1.8
275657	Upgrade	65	60	85	51	50	74	58	58	80	7.1	7.4	6.3
275660	Upgrade	65	60	85	53	53	78	64	64	84	10.6	11.0	5.5
275674	Upgrade	65	60	85	54	53	80	64	64	85	9.8	10.3	5.3
275752	Upgrade	65	60	85	53	52	77	59	59	79	5.9	6.7	2.1
275775	Upgrade	65	60	85	55	54	81	60	60	81	4.9	5.9	0.1
275783	Upgrade	65	60	85	54	53	79	60	60	81	5.8	6.7	2.7
275926	Upgrade	65	60	85	55	54	79	63	63	84	8.4	9.1	5.8
275977	Upgrade	65	60	85	56	55	82	62	62	82	6.0	6.9	0.6
276007	Upgrade	65	60	85	56	54	81	62	62	83	6.6	7.4	1.6
276055	New	60	55	80	-	-	-	54	54	76	-	-	-
276084	Upgrade	65	60	85	56	55	83	63	63	84	6.8	7.6	1.3
276117	Upgrade	65	60	85	57	56	81	64	63	85	6.7	7.1	3.8
276134	Upgrade	65	60	85	55	54	78	64	64	87	9.5	9.8	8.8
276140	Upgrade	65	60	85	57	56	84	64	63	85	6.6	7.5	1.3
276186	Upgrade	65	60	85	55	55	80	63	63	86	7.8	8.1	5.9
276207	Upgrade	65	60	85	56	55	82	69	69	90	13.2	13.8	8.0
276215	Upgrade	65	60	85	60	59	84	66	66	86	6.1	7.0	2.2
276244	Upgrade	65	60	85	53	53	77	60	60	83	7.0	7.6	5.9
276246	Upgrade	65	60	85	60	58	85	66	66	87	6.7	7.7	1.7
276249	Upgrade	65	60	85	61	59	87	68	68	90	7.5	8.5	3.3
276288	Upgrade	65	60	85	57	56	83	63	62	83	5.8	6.7	0.1
276378	Upgrade	65	60	85	57	55	83	74	73	96	17.4	17.9	13.7
276388	Upgrade	65	60	85	55	55	78	62	62	85	7.0	7.5	6.5
276470	Upgrade	65	60	85	58	58	86	67	67	91	8.4	8.5	5.1
276505	Upgrade	65	60	85	65	63	90	69	69	90	4.3	5.6	-0.5
276507	Upgrade	65	60	85	57	57	84	65	65	89	8.2	8.5	4.2
276517	Upgrade	65	60	85	61	60	86	69	69	90	8.2	9.1	3.4
276534	Upgrade	65	60	85	63	63	90	71	71	96	8.3	8.1	5.8
276546	Upgrade	65	60	85	58	58	85	67	67	91	8.5	8.6	5.2
276577	Upgrade	65	60	85	72	70	99	72	71	94	0.2	1.7	-5.7
276585	Upgrade	65	60	85	62	61	89	72	72	95	10.6	10.8	5.8



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
276593	Upgrade	65	60	85	62	61	88	70	70	94	8.7	8.9	5.5
276634	Upgrade	65	60	85	65	64	91	76	76	97	10.9	11.4	6.0
276783	New	60	55	80	-	-	-	64	64	88	-	-	-
276791	Upgrade	65	60	85	72	71	100	71	71	94	-0.8	0.7	-5.6
276801	Upgrade	65	60	85	63	62	91	71	70	93	7.7	8.6	2.1
276829	New	60	55	80	-	-	-	59	59	82	-	-	-
276898	Upgrade	65	60	85	66	64	92	71	70	93	5.4	6.2	1.4
276907	Upgrade	65	60	85	64	63	89	68	67	88	3.4	4.4	-1.2
276942	Upgrade	65	60	85	65	64	91	66	66	87	1.3	2.0	-4.3
276950	Upgrade	65	60	85	63	62	90	72	71	94	8.7	9.4	4.4
277035	Upgrade	65	60	85	75	75	105	63	63	85	-11.6	-12.1	-19.4
277136	Upgrade	65	60	85	55	56	81	60	60	84	4.6	4.6	3.8
277192	Upgrade	65	60	85	55	55	80	60	60	84	4.7	4.7	4.1
277198	Upgrade	65	60	85	58	57	82	63	63	85	5.6	6.4	2.6
277235	Upgrade	65	60	85	55	55	80	59	60	84	4.7	4.7	4.0
277265	Upgrade	65	60	85	52	52	76	58	58	81	5.8	5.9	5.8
277296	Upgrade	65	60	85	64	64	89	63	62	82	-1.6	-1.4	-6.5
277316	Upgrade	65	60	85	74	72	102	65	64	86	-9.2	-8.1	-16.0
277319	Upgrade	65	60	85	73	71	100	65	64	86	-8.2	-7.0	-14.8
277333	Upgrade	65	60	85	55	55	79	59	59	83	4.3	4.4	4.0
277346	Upgrade	65	60	85	57	57	82	59	59	83	1.4	1.6	0.7
277361	Upgrade	65	60	85	69	68	96	63	63	83	-5.8	-4.7	-13.2
277364	Upgrade	65	60	85	70	69	97	64	63	83	-6.6	-5.5	-14.1
277368	Upgrade	65	60	85	67	66	92	64	63	83	-3.6	-3.0	-9.0
277389	Upgrade	65	60	85	65	64	92	63	62	83	-2.8	-2.1	-9.4
277394	Upgrade	65	60	85	71	69	98	64	63	83	-6.9	-5.9	-15.0
277408	Upgrade	65	60	85	56	56	80	59	59	83	3.0	3.1	2.4
277438	Upgrade	65	60	85	57	57	82	59	59	83	2.6	2.7	1.7
277441	Upgrade	65	60	85	57	57	82	59	59	82	1.6	1.6	0.0
277445	Upgrade	65	60	85	67	65	94	62	62	82	-4.3	-3.3	-11.4
277455	Upgrade	65	60	85	54	55	79	58	58	82	3.7	3.8	3.1
277466	Upgrade	65	60	85	59	58	83	61	60	81	2.1	2.4	-2.1
277469	Upgrade	65	60	85	56	56	81	58	58	82	2.4	2.5	1.2
277481	Upgrade	65	60	85	66	65	93	63	63	83	-2.8	-1.8	-9.8
277491	Upgrade	65	60	85	64	63	91	61	60	82	-3.7	-2.7	-9.6
277503	Upgrade	65	60	85	58	57	83	62	62	83	4.1	5.0	0.2
277504	Upgrade	65	60	85	60	59	85	63	62	83	2.7	3.1	-2.1
277507	Upgrade	65	60	85	52	53	76	57	57	81	4.4	4.3	4.1
277517	Upgrade	65	60	85	61	60	86	61	60	81	-0.4	0.4	-4.7
277535	Upgrade	65	60	85	55	55	79	58	58	82	3.1	3.2	2.4
277544	Upgrade	65	60	85	57	56	82	60	59	80	2.1	2.9	-2.5
277552	Upgrade	65	60	85	56	55	82	60	60	82	3.9	4.9	0.4
277558	Upgrade	65	60	85	53	54	77	58	59	82	5.1	5.0	5.0
277559	Upgrade	65	60	85	54	54	79	57	58	81	3.5	3.5	2.5
277568	New	60	55	80	-	-	-	46	46	68	-	-	-
277569	Upgrade	65	60	85	54	54	78	57	57	80	3.0	3.2	2.0
277571	Upgrade	65	60	85	54	54	79	57	57	81	3.4	3.5	2.4
277586	Upgrade	65	60	85	54	53	79	59	58	80	4.2	4.9	1.0
277592	Upgrade	65	60	85	60	59	84	62	62	82	2.5	3.2	-1.9
277594	Upgrade	65	60	85	63	61	87	60	59	80	-2.9	-1.7	-7.5
277601	New	60	55	80	-	-	-	64	65	88	-	-	-

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
277619	Upgrade	65	60	85	61	60	87	61	61	80	-0.1	0.9	-6.7
277635	Upgrade	65	60	85	54	54	78	57	57	79	3.2	3.4	1.1
277641	Upgrade	65	60	85	58	57	84	59	59	80	0.6	1.6	-3.6
277645	Upgrade	65	60	85	59	58	84	60	59	79	0.4	1.4	-4.6
277665	Upgrade	65	60	85	55	55	79	58	58	80	2.8	2.9	0.6
277691	Upgrade	65	60	85	57	56	82	61	60	80	3.4	3.9	-1.3
277711	Upgrade	65	60	85	58	57	85	62	62	81	4.0	4.8	-3.7
277720	Upgrade	65	60	85	52	53	78	57	58	82	4.8	4.8	4.1
277732	Upgrade	65	60	85	57	56	82	60	60	80	3.5	4.1	-2.4
277741	Upgrade	65	60	85	58	57	84	59	59	79	1.5	2.4	-5.2
277746	Upgrade	65	60	85	54	53	77	57	57	77	3.5	3.5	0.4
277773	Upgrade	65	60	85	52	52	76	57	57	81	4.9	4.9	5.2
277774	Upgrade	65	60	85	59	57	84	61	61	82	2.7	3.3	-2.4
277794	Upgrade	65	60	85	54	53	77	58	58	79	4.0	4.2	1.8
277798	Upgrade	65	60	85	49	50	73	54	54	78	4.9	4.8	4.9
277804	Upgrade	65	60	85	53	53	76	57	57	77	4.2	4.3	1.8
277808	Upgrade	65	60	85	51	52	76	56	56	80	4.7	4.6	4.2
277830	Upgrade	65	60	85	51	50	74	53	53	75	2.1	2.9	0.2
277840	Upgrade	65	60	85	59	57	84	60	60	79	1.6	2.5	-4.8
277842	Upgrade	65	60	85	56	54	82	58	58	79	1.9	3.1	-3.4
277843	Upgrade	65	60	85	53	53	77	57	57	79	3.5	3.6	1.7
277860	Upgrade	65	60	85	58	56	82	60	59	79	2.1	3.0	-3.2
277884	Upgrade	65	60	85	54	53	77	56	56	79	2.8	3.1	1.7
277892	Upgrade	65	60	85	57	56	81	59	58	78	1.6	2.5	-3.5
277918	Upgrade	65	60	85	52	52	76	55	55	78	3.2	3.5	1.8
277921	New	60	55	80	-	-	-	61	61	85	-	-	-
277952	Upgrade	65	60	85	52	52	77	59	59	80	6.7	7.3	3.4
277953	Upgrade	65	60	85	53	53	77	56	56	78	3.4	3.6	1.8
277954	Upgrade	65	60	85	55	53	79	60	60	80	5.5	6.3	1.4
278007	Upgrade	65	60	85	52	52	76	56	56	78	3.4	3.7	2.5
278026	Upgrade	65	60	85	52	52	75	56	56	78	4.6	4.6	3.5
278028	Upgrade	65	60	85	52	52	75	55	55	77	3.2	3.6	2.3
278034	Upgrade	65	60	85	50	50	74	55	55	79	4.7	4.7	4.8
278036	New	60	55	80	-	-	-	44	44	66	-	-	-
278056	Upgrade	65	60	85	52	52	75	56	56	78	4.2	4.4	3.5
278061	Upgrade	65	60	85	50	50	74	54	55	79	4.7	4.8	4.7
278064	Upgrade	65	60	85	53	52	76	57	57	79	4.2	4.5	2.7
278071	Upgrade	65	60	85	52	52	76	56	56	78	3.8	4.0	2.7
278094	Upgrade	65	60	85	57	55	81	59	58	80	2.3	3.0	-1.3
278102	Upgrade	65	60	85	51	51	75	55	55	77	3.4	3.7	2.2
278106	Upgrade	65	60	85	50	51	74	56	56	79	5.2	5.0	5.6
278111	New	60	55	80	-	-	-	43	44	66	-	-	-
278118	Upgrade	65	60	85	49	49	70	55	55	78	6.5	6.7	8.2
278134	Upgrade	65	60	85	50	50	73	53	53	75	2.6	3.1	1.8
278135	Upgrade	65	60	85	51	51	74	54	54	77	2.7	3.2	2.6
278156	Upgrade	65	60	85	50	50	74	55	55	79	5.2	5.1	5.4
278163	Upgrade	65	60	85	47	47	68	54	54	77	6.9	7.0	9.2
278165	Upgrade	65	60	85	53	52	76	55	55	78	2.8	3.4	1.9
278167	Upgrade	65	60	85	51	50	74	55	55	77	4.1	4.4	2.8
278173	Upgrade	65	60	85	53	52	77	58	57	77	4.6	5.2	-0.1
278174	Upgrade	65	60	85	52	52	76	58	58	79	5.8	6.4	3.2



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
278179	Upgrade	65	60	85	53	52	77	58	57	77	4.8	5.4	0.5
278190	Upgrade	65	60	85	50	50	73	53	53	76	3.2	3.5	2.9
278192	Upgrade	65	60	85	52	51	75	55	55	78	3.4	3.8	3.7
278211	Upgrade	65	60	85	51	50	76	55	55	74	3.9	4.6	-1.9
278226	Upgrade	65	60	85	54	53	80	55	55	76	0.5	1.6	-4.3
278232	Upgrade	65	60	85	52	51	76	58	58	79	5.6	6.3	2.9
278233	Upgrade	65	60	85	49	49	73	53	54	78	4.6	4.7	4.7
278249	Upgrade	65	60	85	52	52	75	56	56	78	4.0	4.2	3.5
278266	Upgrade	65	60	85	49	49	72	54	54	77	5.0	5.0	5.4
278279	Upgrade	65	60	85	51	51	74	55	55	78	3.9	4.1	3.8
278284	Upgrade	65	60	85	49	50	74	54	55	78	4.9	4.9	4.6
278285	Upgrade	65	60	85	51	50	73	54	54	76	3.3	3.7	3.1
278287	Upgrade	65	60	85	52	50	76	56	56	76	4.5	5.1	0.1
278289	Upgrade	65	60	85	50	50	74	54	55	78	3.9	4.3	4.1
278297	Upgrade	65	60	85	51	50	73	55	54	77	4.0	4.4	3.5
278320	Upgrade	65	60	85	51	50	76	55	54	74	3.5	4.2	-2.1
278323	Upgrade	65	60	85	49	49	74	54	54	79	5.0	5.0	4.9
278325	Upgrade	65	60	85	52	51	74	55	55	78	3.6	4.0	3.7
278348	Upgrade	65	60	85	46	46	68	54	54	76	7.3	7.6	8.7
278358	Upgrade	65	60	85	51	50	75	57	56	77	5.5	6.3	2.4
278363	Upgrade	65	60	85	51	50	75	57	57	78	5.5	6.3	2.9
278401	New	60	55	80	-	-	-	61	61	84	-	-	-
278402	Upgrade	65	60	85	47	47	71	52	52	76	4.6	4.7	4.4
278407	Upgrade	65	60	85	51	51	73	55	55	77	4.0	4.4	3.8
278413	Upgrade	65	60	85	48	48	71	52	52	75	3.9	4.2	3.4
278421	Upgrade	65	60	85	50	50	72	55	55	78	5.0	4.9	6.1
278426	Upgrade	65	60	85	53	51	79	55	55	76	2.2	3.4	-2.7
278435	Upgrade	65	60	85	49	50	74	54	54	78	4.3	4.5	4.1
278437	Upgrade	65	60	85	49	50	72	54	55	78	5.0	4.9	5.9
278439	Upgrade	65	60	85	49	49	73	53	53	77	3.5	3.8	3.7
278442	Upgrade	65	60	85	51	49	77	52	52	72	1.5	2.7	-4.9
278465	Upgrade	65	60	85	48	48	71	53	53	77	5.0	4.8	5.6
278470	Upgrade	65	60	85	50	51	73	56	56	79	5.2	5.3	5.7
278476	Upgrade	65	60	85	50	49	71	53	53	75	3.5	4.1	3.4
278480	Upgrade	65	60	85	47	47	70	51	51	74	3.2	3.8	3.6
278483	Upgrade	65	60	85	48	48	71	53	53	77	5.0	4.9	6.0
278485	Upgrade	65	60	85	48	48	72	53	54	77	5.0	5.1	5.5
278490	Upgrade	65	60	85	47	47	70	52	52	76	5.0	4.9	5.9
278491	Upgrade	65	60	85	48	48	72	54	54	77	5.3	5.3	5.0
278503	Upgrade	65	60	85	47	48	71	52	52	76	4.3	4.5	4.7
278506	Upgrade	65	60	85	49	49	72	54	54	75	4.7	5.1	3.7
278513	Upgrade	65	60	85	49	49	71	53	54	76	4.5	4.7	4.6
278515	Upgrade	65	60	85	49	49	72	53	53	75	3.9	4.4	2.8
278520	Upgrade	65	60	85	52	50	78	54	53	74	2.1	3.2	-3.9
278529	Upgrade	65	60	85	48	48	70	55	55	78	6.6	7.1	7.4
278532	Upgrade	65	60	85	49	48	71	54	54	76	5.1	5.5	5.0
278536	Upgrade	65	60	85	51	49	77	54	54	74	3.0	4.1	-2.9
278537	Upgrade	65	60	85	49	49	71	53	53	76	4.7	4.8	4.5
278542	Upgrade	65	60	85	37	36	61	42	42	63	5.3	5.7	1.6
278547	Upgrade	65	60	85	48	47	70	53	53	75	5.4	5.8	5.2
278552	Upgrade	65	60	85	49	49	71	53	53	75	4.3	4.6	4.5

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
278555	Upgrade	65	60	85	50	50	73	54	55	78	4.2	4.4	4.3
278558	Upgrade	65	60	85	48	48	71	52	52	74	3.5	4.1	3.0
278559	Upgrade	65	60	85	42	42	66	47	47	70	4.9	5.1	4.1
278563	Upgrade	65	60	85	47	47	69	51	51	73	3.9	4.5	4.0
278566	Upgrade	65	60	85	49	50	72	54	55	78	5.0	5.0	5.8
278569	New	60	55	80	-	-	-	60	61	82	-	-	-
278570	Upgrade	65	60	85	46	46	69	50	50	73	4.2	4.5	3.5
278571	Upgrade	65	60	85	47	47	70	51	51	74	3.6	4.3	3.8
278588	Upgrade	65	60	85	45	45	68	49	49	72	3.9	4.2	3.4
278598	Upgrade	65	60	85	48	49	71	53	54	77	4.9	4.9	6.1
278601	Upgrade	65	60	85	47	47	69	53	53	75	5.8	6.0	6.3
278604	Upgrade	65	60	85	43	43	68	47	48	71	4.7	4.7	3.6
278611	Upgrade	65	60	85	43	42	66	50	50	72	6.5	7.1	5.8
278618	Upgrade	65	60	85	42	42	67	47	47	71	4.4	4.7	3.8
278624	Upgrade	65	60	85	42	42	66	46	47	70	4.5	4.7	4.0
278627	Upgrade	65	60	85	47	47	68	52	53	75	5.7	5.9	6.5
278630	Upgrade	65	60	85	43	42	66	47	47	70	4.1	4.8	4.3
278640	New	60	55	80	-	-	-	61	61	85	-	-	-
278641	Upgrade	65	60	85	46	46	67	51	52	74	5.7	5.8	6.5
278642	Upgrade	65	60	85	44	44	67	50	50	74	6.1	6.3	6.4
278643	Upgrade	65	60	85	46	46	70	50	51	74	4.5	4.5	4.8
278646	Upgrade	65	60	85	44	44	67	49	49	73	4.4	4.5	5.5
278647	New	60	55	80	-	-	-	47	48	69	-	-	-
278648	Upgrade	65	60	85	48	49	76	32	32	52	-16.3	-17.0	-23.4
278649	Upgrade	65	60	85	43	42	64	49	49	72	6.5	6.8	7.6
278651	Upgrade	65	60	85	38	38	61	45	45	68	7.0	7.4	7.4
278662	Upgrade	65	60	85	43	43	68	48	48	72	4.6	4.9	3.9
278664	Upgrade	65	60	85	41	41	66	46	46	70	4.6	4.7	4.0
278675	Upgrade	65	60	85	39	39	64	44	44	68	4.5	4.7	3.8
278679	New	60	55	80	-	-	-	47	48	69	-	-	-
278680	Upgrade	65	60	85	39	38	62	45	45	67	5.9	6.6	4.5
278682	Upgrade	65	60	85	39	38	63	44	44	67	5.1	6.1	3.6
278688	Upgrade	65	60	85	46	46	68	50	50	73	4.3	4.6	4.1
278689	New	60	55	80	-	-	-	39	39	59	-	-	-
278692	Upgrade	65	60	85	37	36	61	40	40	60	3.2	4.1	-1.6
278693	Upgrade	65	60	85	62	62	92	34	33	55	-27.9	-28.7	-37.2
278700	New	60	55	80	-	-	-	39	39	60	-	-	-
278705	Upgrade	65	60	85	51	52	78	35	35	55	-16.1	-17.0	-22.4
278707	Upgrade	65	60	85	45	45	67	51	52	74	6.5	7.1	6.7
278708	Upgrade	65	60	85	46	46	68	50	50	73	4.1	4.5	4.6
278709	Upgrade	65	60	85	42	41	64	48	49	72	6.6	7.3	7.6
278715	New	60	55	80	-	-	-	50	51	73	-	-	-
278718	Upgrade	65	60	85	48	48	71	37	37	57	-10.5	-11.4	-13.4
278720	Upgrade	65	60	85	47	47	72	35	34	54	-12.4	-13.1	-17.5
278722	Upgrade	65	60	85	47	47	71	34	34	54	-12.5	-13.3	-17.1
278723	Upgrade	65	60	85	47	47	70	34	34	54	-12.1	-12.9	-15.3
278724	Upgrade	65	60	85	46	47	71	32	32	51	-14.2	-14.5	-19.9
278730	Upgrade	65	60	85	46	46	69	34	34	54	-11.3	-12.0	-14.8
278731	Upgrade	65	60	85	46	47	71	32	31	51	-14.7	-15.3	-20.2
278732	Upgrade	65	60	85	39	40	63	31	31	50	-7.8	-8.4	-13.5
278733	Upgrade	65	60	85	40	40	63	32	32	51	-7.4	-8.0	-11.9



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
278734	Upgrade	65	60	85	44	44	66	49	49	72	5.2	5.5	5.8
278737	Upgrade	65	60	85	43	43	65	48	48	71	5.3	5.4	6.0
278739	Upgrade	65	60	85	37	37	60	28	28	48	-9.0	-9.2	-12.0
278742	New	60	55	80	-	-	-	49	49	71	-	-	-
278743	Upgrade	65	60	85	41	41	65	45	46	69	4.7	4.8	4.2
278744	Upgrade	65	60	85	43	43	66	34	34	53	-8.9	-9.4	-13.9
278746	Upgrade	65	60	85	38	38	59	25	26	48	-12.4	-11.9	-10.6
278747	Upgrade	65	60	85	41	42	64	33	33	52	-8.2	-8.9	-11.9
278750	Upgrade	65	60	85	41	41	63	31	31	50	-10.0	-10.4	-12.9
278754	Upgrade	65	60	85	46	47	69	37	36	57	-9.6	-10.3	-12.4
278757	New	60	55	80	-	-	-	48	49	72	-	-	-
278759	Upgrade	65	60	85	43	43	65	47	48	71	4.8	4.7	5.8
278765	New	60	55	80	-	-	-	48	49	69	-	-	-
278766	Upgrade	65	60	85	48	48	71	39	39	60	-9.2	-9.7	-11.5
278769	New	60	55	80	-	-	-	46	47	69	-	-	-
278770	Upgrade	65	60	85	43	43	66	48	48	72	5.0	5.0	5.5
278775	Upgrade	65	60	85	41	41	64	46	46	70	4.8	4.8	6.0
278777	Upgrade	65	60	85	37	38	62	42	43	67	5.0	4.8	4.8
278779	Upgrade	65	60	85	43	43	65	48	48	70	4.8	5.2	5.5
278780	New	60	55	80	-	-	-	49	50	72	-	-	-
278782	Upgrade	65	60	85	42	43	65	32	32	51	-9.9	-10.5	-14.6
278789	New	60	55	80	-	-	-	49	50	72	-	-	-
278790	New	60	55	80	-	-	-	46	47	70	-	-	-
278792	Upgrade	65	60	85	38	38	60	30	30	50	-8.2	-8.8	-10.3
278797	Upgrade	65	60	85	39	39	63	46	46	69	6.2	6.8	6.3
278799	New	60	55	80	-	-	-	50	50	71	-	-	-
278800	New	60	55	80	-	-	-	49	50	73	-	-	-
278805	Upgrade	65	60	85	37	36	60	42	42	64	5.3	5.8	4.2
278806	New	60	55	80	-	-	-	49	50	70	-	-	-
278815	Upgrade	65	60	85	44	44	68	30	30	48	-13.5	-13.8	-20.1
278816	Upgrade	65	60	85	43	43	67	30	30	47	-13.0	-13.2	-19.5
278817	Upgrade	65	60	85	42	43	67	30	30	47	-12.5	-12.7	-19.1
278819	New	60	55	80	-	-	-	48	49	74	-	-	-
278820	Upgrade	65	60	85	40	41	64	45	46	70	5.0	4.9	6.2
278821	Upgrade	65	60	85	36	36	61	41	42	66	5.3	5.3	5.1
278825	Upgrade	65	60	85	42	42	66	47	47	72	5.0	4.9	5.6
278839	New	60	55	80	-	-	-	50	50	73	-	-	-
278842	Upgrade	65	60	85	40	40	62	32	32	57	-8.3	-8.4	-4.6
278846	Upgrade	65	60	85	41	41	62	32	32	58	-9.0	-9.1	-4.2
278852	New	60	55	80	-	-	-	50	51	73	-	-	-
278854	New	60	55	80	-	-	-	49	50	72	-	-	-
278857	New	60	55	80	-	-	-	49	50	72	-	-	-
278862	New	60	55	80	-	-	-	47	47	70	-	-	-
278866	New	60	55	80	-	-	-	50	51	72	-	-	-
278868	New	60	55	80	-	-	-	48	49	71	-	-	-
278870	Upgrade	65	60	85	39	39	61	33	33	58	-6.1	-6.1	-3.2
278871	New	60	55	80	-	-	-	51	52	73	-	-	-
278876	New	60	55	80	-	-	-	48	49	70	-	-	-
278881	Upgrade	65	60	85	39	38	61	23	24	50	-15.3	-14.4	-10.6
278882	Upgrade	65	60	85	40	40	62	32	32	57	-8.0	-7.2	-4.6
278883	Upgrade	65	60	85	39	39	61	31	31	58	-8.2	-7.4	-3.3

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
278884	Upgrade	65	60	85	39	39	62	32	33	59	-7.4	-6.4	-3.5
278886	New	60	55	80	-	-	-	46	46	72	-	-	-
278887	New	60	55	80	-	-	-	49	50	72	-	-	-
278888	Upgrade	65	60	85	41	41	64	36	36	61	-5.6	-5.6	-3.1
278889	New	60	55	80	-	-	-	49	50	72	-	-	-
278891	Upgrade	65	60	85	38	39	60	29	30	55	-9.0	-8.4	-4.9
278892	Upgrade	65	60	85	41	41	62	35	35	61	-5.5	-5.6	-1.7
278896	Upgrade	65	60	85	39	39	60	36	37	63	-2.8	-2.3	2.9
278897	New	60	55	80	-	-	-	46	46	72	-	-	-
278898	Upgrade	65	60	85	41	41	64	36	37	62	-4.5	-4.5	-2.0
278903	New	60	55	80	-	-	-	47	47	69	-	-	-
278905	New	60	55	80	-	-	-	42	43	67	-	-	-
278906	Upgrade	65	60	85	39	39	60	31	32	58	-8.1	-6.8	-1.6
278909	New	60	55	80	-	-	-	48	48	74	-	-	-
278911	Upgrade	65	60	85	41	41	62	32	33	59	-8.4	-7.6	-2.7
278920	New	60	55	80	-	-	-	46	47	73	-	-	-
278926	Upgrade	65	60	85	41	41	63	35	36	63	-6.6	-5.7	-0.5
278927	Upgrade	65	60	85	41	41	61	34	35	60	-7.0	-6.4	-1.0
278928	New	60	55	80	-	-	-	46	47	68	-	-	-
278930	New	60	55	80	-	-	-	46	46	68	-	-	-
278943	Upgrade	65	60	85	41	41	61	35	36	61	-6.1	-5.7	0.0
278951	New	60	55	80	-	-	-	43	44	68	-	-	-
278953	Upgrade	65	60	85	41	41	62	38	38	64	-2.5	-2.3	1.8
278958	New	60	55	80	-	-	-	56	57	84	-	-	-
278965	New	60	55	80	-	-	-	44	45	68	-	-	-
278971	Upgrade	65	60	85	40	40	62	35	35	60	-5.5	-5.5	-1.8
278976	New	60	55	80	-	-	-	38	39	63	-	-	-
278977	New	60	55	80	-	-	-	45	46	67	-	-	-
278982	New	60	55	80	-	-	-	33	34	60	-	-	-
278990	Upgrade	65	60	85	41	41	63	33	34	57	-8.1	-7.4	-6.3
279002	Upgrade	65	60	85	42	42	63	35	35	58	-7.1	-7.2	-5.2
279007	Upgrade	65	60	85	42	42	62	37	38	62	-4.9	-4.5	-0.7
279009	Upgrade	65	60	85	40	41	62	44	44	66	3.2	3.6	4.5
279017	New	60	55	80	-	-	-	43	44	66	-	-	-
279018	Upgrade	65	60	85	38	38	58	32	33	60	-6.5	-5.5	2.5
279030	Upgrade	65	60	85	43	44	67	47	48	70	3.9	4.3	3.6
279035	New	60	55	80	-	-	-	47	47	70	-	-	-
279040	Upgrade	65	60	85	42	42	62	44	45	66	2.2	2.7	4.0
279041	Upgrade	65	60	85	42	42	65	45	46	68	3.1	3.6	2.9
279045	Upgrade	65	60	85	40	40	61	33	34	61	-6.9	-5.7	-0.1
279052	Upgrade	65	60	85	42	42	63	34	34	59	-7.8	-7.5	-4.5
279053	Upgrade	65	60	85	39	39	59	34	34	61	-5.7	-4.7	1.8
279070	Upgrade	65	60	85	41	41	63	46	46	68	5.1	5.6	5.3
279071	Upgrade	65	60	85	58	59	87	54	54	74	-4.9	-4.7	-12.2
279072	Upgrade	65	60	85	40	40	63	44	45	66	4.0	4.5	3.8
279076	New	60	55	80	-	-	-	41	42	70	-	-	-
279084	Upgrade	65	60	85	42	42	62	36	37	63	-5.3	-4.7	0.9
279088	New	60	55	80	-	-	-	47	47	70	-	-	-
279089	Upgrade	65	60	85	42	42	64	36	37	61	-6.4	-5.6	-2.3
279094	New	60	55	80	-	-	-	40	41	63	-	-	-
279098	Upgrade	65	60	85	41	41	63	44	45	67	3.3	3.7	3.6



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
279100	Upgrade	65	60	85	42	41	62	35	35	61	-6.8	-6.1	-1.4
279103	Upgrade	65	60	85	41	41	62	31	32	55	-9.9	-8.8	-6.4
279113	New	60	55	80	-	-	-	40	41	66	-	-	-
279123	Upgrade	65	60	85	38	39	63	44	44	66	5.3	5.8	3.3
279126	Upgrade	65	60	85	39	40	62	37	37	61	-2.9	-2.8	-1.3
279159	Upgrade	65	60	85	40	40	63	34	35	61	-6.6	-5.4	-1.8
279161	New	60	55	80	-	-	-	40	41	66	-	-	-
279170	Upgrade	65	60	85	40	40	61	33	34	59	-7.2	-6.6	-1.5
279174	Upgrade	65	60	85	40	41	62	44	45	67	4.0	4.4	4.8
279181	Upgrade	65	60	85	57	57	84	53	53	76	-3.7	-3.8	-7.8
279183	Upgrade	65	60	85	41	42	63	44	45	67	3.0	3.5	4.6
279191	Upgrade	65	60	85	42	42	64	36	36	61	-6.2	-5.7	-2.8
279196	Upgrade	65	60	85	38	38	59	32	32	59	-6.8	-5.9	0.2
279215	Upgrade	65	60	85	54	55	79	51	52	72	-3.3	-3.1	-6.8
279217	Upgrade	65	60	85	60	60	90	51	52	72	-8.5	-8.5	-17.7
279227	Upgrade	65	60	85	56	56	85	49	50	69	-6.8	-6.6	-15.9
279234	Upgrade	65	60	85	42	43	66	46	47	70	4.1	4.6	3.7
279240	Upgrade	65	60	85	43	43	65	39	39	64	-3.8	-3.7	-1.6
279250	Upgrade	65	60	85	58	58	85	50	51	71	-7.4	-7.2	-14.6
279251	Upgrade	65	60	85	57	58	85	51	52	71	-6.0	-6.0	-13.4
279252	Upgrade	65	60	85	40	40	64	40	41	64	0.4	0.7	0.4
279255	Upgrade	65	60	85	34	35	59	34	35	60	-0.2	0.0	1.3
279266	New	60	55	80	-	-	-	43	44	68	-	-	-
279267	Upgrade	65	60	85	37	38	59	40	41	63	2.2	3.0	4.2
279271	Upgrade	65	60	85	43	43	64	37	37	61	-6.1	-5.9	-2.3
279274	Upgrade	65	60	85	51	52	76	48	48	68	-3.8	-3.7	-8.2
279282	Upgrade	65	60	85	51	51	77	48	49	68	-2.5	-2.3	-8.8
279303	Upgrade	65	60	85	28	29	52	30	31	53	1.3	1.8	1.0
279307	Upgrade	65	60	85	55	56	83	50	51	71	-5.5	-5.2	-11.9
279311	Upgrade	65	60	85	37	37	61	38	38	62	0.7	0.9	1.1
279312	Upgrade	65	60	85	43	44	65	40	40	66	-3.3	-3.1	0.6
279328	Upgrade	65	60	85	39	39	63	43	44	66	4.2	4.5	2.8
279338	Upgrade	65	60	85	57	57	85	50	50	70	-7.5	-7.3	-15.3
279340	Upgrade	65	60	85	47	47	69	48	48	70	1.0	0.9	1.1
279350	Upgrade	65	60	85	55	56	81	53	53	77	-2.8	-2.3	-4.4
279352	Upgrade	65	60	85	50	50	76	47	48	69	-2.5	-2.4	-7.0
279367	Upgrade	65	60	85	38	39	63	42	42	65	3.2	3.7	2.1
279369	Upgrade	65	60	85	49	49	77	48	49	71	-1.0	-0.7	-6.3
279370	Upgrade	65	60	85	43	43	66	33	33	53	-10.0	-9.7	-12.7
279371	Upgrade	65	60	85	44	44	67	42	42	65	-1.9	-2.1	-1.8
279379	Upgrade	65	60	85	37	37	59	39	40	65	2.7	3.2	5.8
279382	Upgrade	65	60	85	50	50	77	49	50	70	-0.7	-0.5	-7.3
279384	Upgrade	65	60	85	54	54	81	48	49	71	-5.5	-4.8	-10.7
279385	Upgrade	65	60	85	50	50	76	51	51	72	1.2	1.4	-3.5
279388	Upgrade	65	60	85	36	36	60	42	42	66	6.1	6.4	5.9
279399	Upgrade	65	60	85	45	45	67	40	40	63	-4.8	-4.8	-3.5
279401	Upgrade	65	60	85	50	50	79	49	50	71	-0.3	-0.1	-7.9
279403	Upgrade	65	60	85	38	38	61	42	43	68	4.2	4.8	6.9
279423	Upgrade	65	60	85	41	41	63	44	44	66	2.7	3.1	3.2
279425	Upgrade	65	60	85	45	45	68	39	39	63	-6.3	-6.1	-4.6
279426	Upgrade	65	60	85	46	46	69	40	40	63	-5.9	-6.1	-5.5

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
279429	Upgrade	65	60	85	44	44	65	40	40	65	-3.9	-3.7	-0.4
279436	Upgrade	65	60	85	55	55	81	54	54	77	-1.0	-0.8	-4.7
279441	Upgrade	65	60	85	52	52	78	52	53	74	0.1	0.4	-4.0
279444	Upgrade	65	60	85	46	46	69	36	36	62	-9.9	-9.4	-6.4
279445	Upgrade	65	60	85	52	52	79	52	53	73	0.8	0.8	-5.6
279449	Upgrade	65	60	85	41	41	64	45	45	67	3.5	4.0	3.4
279452	Upgrade	65	60	85	43	43	66	40	40	64	-3.1	-2.7	-1.5
279454	Upgrade	65	60	85	41	41	63	43	44	66	2.6	3.0	3.1
279457	Upgrade	65	60	85	44	44	66	38	38	62	-5.9	-5.9	-4.0
279458	Upgrade	65	60	85	44	44	67	37	38	61	-6.6	-6.4	-6.0
279461	Upgrade	65	60	85	45	45	67	46	46	67	1.0	1.2	0.5
279462	Upgrade	65	60	85	54	54	80	55	55	77	1.1	1.0	-3.0
279464	Upgrade	65	60	85	47	47	69	44	45	70	-2.4	-2.6	0.6
279469	Upgrade	65	60	85	44	44	66	43	43	67	-0.7	-0.9	0.7
279473	Upgrade	65	60	85	43	43	64	38	38	62	-4.9	-4.4	-1.9
279482	Upgrade	65	60	85	38	38	60	42	43	66	4.2	4.7	6.1
279484	Upgrade	65	60	85	46	46	69	36	37	61	-9.2	-8.9	-7.7
279500	Upgrade	65	60	85	44	44	64	39	40	64	-4.9	-4.3	0.1
279504	Upgrade	65	60	85	50	50	78	50	50	72	-0.1	-0.1	-6.3
279507	Upgrade	65	60	85	40	40	63	34	35	61	-6.0	-5.6	-1.4
279512	Upgrade	65	60	85	45	46	69	43	44	68	-1.9	-2.0	-0.3
279515	Upgrade	65	60	85	50	50	78	51	51	72	0.6	0.7	-5.6
279517	Upgrade	65	60	85	41	41	64	36	37	63	-4.4	-4.0	-1.2
279533	Upgrade	65	60	85	44	44	66	40	40	64	-4.4	-4.1	-1.9
279540	Upgrade	65	60	85	42	42	65	35	36	59	-7.1	-6.7	-6.0
279561	Upgrade	65	60	85	50	50	75	51	51	73	0.8	0.9	-2.2
279563	Upgrade	65	60	85	36	37	59	40	41	64	3.6	4.1	5.0
279569	Upgrade	65	60	85	44	45	67	41	41	65	-3.9	-3.9	-1.8
279574	Upgrade	65	60	85	54	54	83	54	55	78	0.5	0.6	-5.2
279588	Upgrade	65	60	85	50	50	76	51	51	75	1.4	1.6	-1.1
279590	Upgrade	65	60	85	50	50	74	51	52	72	1.2	1.4	-1.6
279594	Upgrade	65	60	85	41	41	64	35	36	61	-6.4	-5.8	-3.5
279595	Upgrade	65	60	85	51	51	76	54	54	76	3.2	3.2	-0.7
279601	Upgrade	65	60	85	43	43	66	38	39	65	-4.8	-4.2	-1.1
279612	Upgrade	65	60	85	47	47	69	47	47	69	0.3	0.3	-0.4
279621	Upgrade	65	60	85	36	36	59	39	40	63	3.0	3.6	4.8
279622	Upgrade	65	60	85	53	54	79	57	57	81	3.5	3.9	2.1
279634	Upgrade	65	60	85	47	48	70	49	49	69	1.3	1.5	-1.0
279636	Upgrade	65	60	85	42	42	63	32	33	59	-9.7	-9.1	-4.4
279640	Upgrade	65	60	85	49	49	76	50	51	72	0.8	1.3	-3.5
279643	Upgrade	65	60	85	53	53	78	56	56	80	2.9	3.1	1.8
279647	Upgrade	65	60	85	48	48	75	49	50	71	1.4	1.6	-4.0
279650	Upgrade	65	60	85	44	44	66	39	40	63	-4.5	-4.2	-2.9
279658	Upgrade	65	60	85	44	45	67	40	40	64	-4.3	-4.3	-2.9
279660	Upgrade	65	60	85	22	23	42	25	26	47	3.1	3.5	4.1
279661	Upgrade	65	60	85	46	47	69	46	46	70	-0.7	-0.6	1.2
279663	Upgrade	65	60	85	49	50	74	51	51	72	1.4	1.3	-2.0
279666	Upgrade	65	60	85	35	36	58	38	39	63	3.0	3.7	4.9
279682	Upgrade	65	60	85	51	52	74	54	54	77	2.5	2.8	2.7
279705	Upgrade	65	60	85	22	23	43	25	26	47	3.0	3.4	4.0
279707	Upgrade	65	60	85	44	45	67	37	38	64	-7.0	-6.6	-3.1



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		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
279715	Upgrade	65	60	85	46	46	70	44	45	70	-1.8	-1.6	0.3
279726	Upgrade	65	60	85	24	24	43	26	27	47	2.6	3.1	4.0
279728	Upgrade	65	60	85	50	50	74	51	52	75	1.5	1.7	0.8
279729	Upgrade	65	60	85	47	48	70	47	47	69	-0.2	-0.1	-0.4
279740	Upgrade	65	60	85	51	51	74	53	54	78	2.4	2.8	3.6
279741	Upgrade	65	60	85	48	49	70	49	49	70	0.4	0.6	-0.5
279762	Upgrade	65	60	85	24	24	43	26	27	47	2.2	2.8	3.5
279765	Upgrade	65	60	85	25	26	45	28	28	49	2.2	2.7	4.3
279768	Upgrade	65	60	85	46	47	70	47	48	71	0.8	1.0	1.3
279773	Upgrade	65	60	85	50	50	74	52	52	75	1.9	1.5	0.3
279774	Upgrade	65	60	85	46	46	69	43	43	68	-3.4	-3.4	-0.5
279794	Upgrade	65	60	85	50	50	73	52	52	75	2.3	2.5	1.6
279806	Upgrade	65	60	85	46	46	68	44	44	68	-1.9	-2.0	-0.1
279807	Upgrade	65	60	85	46	47	70	46	46	69	-0.7	-0.5	-0.9
279813	Upgrade	65	60	85	45	45	68	41	42	67	-3.7	-3.4	-1.0
279826	Upgrade	65	60	85	42	42	63	36	37	61	-5.9	-5.0	-2.6
279827	Upgrade	65	60	85	34	34	59	36	37	64	2.2	2.8	5.0
279831	Upgrade	65	60	85	45	45	68	43	43	68	-1.7	-1.5	-0.3
279832	Upgrade	65	60	85	44	44	67	41	41	66	-3.5	-3.3	-1.4
279834	Upgrade	65	60	85	52	53	77	55	56	79	3.0	3.2	2.1
279837	Upgrade	65	60	85	48	49	71	50	51	72	1.4	1.8	0.6
279843	Upgrade	65	60	85	51	51	75	55	55	78	3.5	3.8	2.6
279846	Upgrade	65	60	85	43	43	65	35	35	57	-8.2	-7.3	-7.8
279852	Upgrade	65	60	85	43	43	65	39	40	63	-4.0	-3.4	-1.4
279854	Upgrade	65	60	85	45	46	69	43	43	67	-2.9	-2.7	-1.7
279856	Upgrade	65	60	85	48	49	72	50	50	72	1.4	1.6	0.1
279868	Upgrade	65	60	85	41	41	64	39	40	64	-2.8	-1.9	0.2
279877	Upgrade	65	60	85	42	42	65	40	40	64	-2.3	-2.2	-0.4
279884	Upgrade	65	60	85	43	43	65	43	43	67	-0.2	0.0	1.7
279888	Upgrade	65	60	85	43	43	65	37	38	64	-5.4	-4.7	-0.8
279894	Upgrade	65	60	85	41	41	62	40	40	63	-1.7	-1.3	1.0
279895	Upgrade	65	60	85	47	47	70	45	45	69	-1.8	-1.7	-0.9
279899	Upgrade	65	60	85	44	44	67	41	41	66	-3.3	-3.0	-1.3
279905	Upgrade	65	60	85	43	43	64	40	41	64	-3.0	-2.1	0.0
279907	Upgrade	65	60	85	41	41	62	40	41	64	-0.4	0.0	1.9
279917	Upgrade	65	60	85	44	43	65	39	39	62	-4.9	-4.3	-2.8
279918	Upgrade	65	60	85	48	48	71	49	50	71	1.4	1.7	0.3
279931	Upgrade	65	60	85	44	44	66	40	41	64	-3.5	-3.0	-1.5
279933	Upgrade	65	60	85	47	47	70	44	45	69	-2.2	-2.1	-1.0
279941	Upgrade	65	60	85	48	48	72	46	46	70	-2.0	-1.8	-1.3
279946	Upgrade	65	60	85	42	42	66	41	42	64	-1.1	-0.4	-1.3
279947	Upgrade	65	60	85	51	51	74	53	53	76	2.1	2.2	2.0
279950	Upgrade	65	60	85	43	43	65	40	41	64	-2.5	-1.9	-1.0
279962	New	60	55	80	-	-	-	42	42	69	-	-	-
279964	New	60	55	80	-	-	-	47	48	72	-	-	-
279969	Upgrade	65	60	85	43	43	64	36	37	61	-6.5	-5.6	-3.2
279974	Upgrade	65	60	85	44	44	66	41	42	66	-2.5	-2.3	-0.1
279978	Upgrade	65	60	85	43	43	64	39	40	64	-3.5	-2.4	-0.2
279986	Upgrade	65	60	85	43	43	64	41	41	65	-1.9	-1.5	1.8
279993	Upgrade	65	60	85	38	38	61	42	43	67	4.3	4.9	6.0
279995	Upgrade	65	60	85	46	46	69	43	44	68	-2.2	-2.0	-1.1

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax
279998	Upgrade	65	60	85	33	33	57	37	38	64	4.0	4.6	6.5
280003	Upgrade	65	60	85	26	27	48	31	32	52	4.3	4.8	4.2
280006	Upgrade	65	60	85	49	49	71	49	49	70	0.1	0.3	-0.6
280007	Upgrade	65	60	85	44	44	65	43	44	67	-1.2	-0.7	1.8
280010	Upgrade	65	60	85	33	33	57	37	38	64	4.4	5.0	7.1
280025	Upgrade	65	60	85	46	46	69	43	44	67	-3.0	-2.7	-2.0
280029	Upgrade	65	60	85	47	48	69	47	48	69	-0.3	0.0	-0.2
280033	Upgrade	65	60	85	43	43	64	41	42	64	-2.0	-1.2	0.0
280054	Upgrade	65	60	85	30	30	55	37	37	63	7.0	7.5	8.2
280055	New	60	55	80	-	-	-	45	46	70	-	-	-
280062	Upgrade	65	60	85	42	42	64	40	40	63	-2.5	-2.0	-1.7
280064	Upgrade	65	60	85	40	40	63	43	44	68	3.3	3.9	4.7
280068	Upgrade	65	60	85	42	42	63	38	38	61	-3.9	-3.9	-2.1
280081	Upgrade	65	60	85	44	44	67	38	39	64	-5.3	-4.3	-3.3
280089	Upgrade	65	60	85	47	48	70	46	47	70	-0.9	-0.7	-0.4
280090	Upgrade	65	60	85	46	46	69	43	43	67	-3.1	-2.9	-1.6
280092	Upgrade	65	60	85	44	43	64	41	42	66	-2.1	-1.2	1.9
280103	Upgrade	65	60	85	44	44	64	38	39	61	-5.4	-5.0	-3.2
280114	Upgrade	65	60	85	30	30	55	34	35	62	4.7	5.3	7.5
280117	Upgrade	65	60	85	47	47	70	42	43	67	-4.5	-3.8	-2.4
280122	Upgrade	65	60	85	44	44	67	42	43	67	-1.4	-0.9	-0.3
280124	Upgrade	65	60	85	38	38	61	43	44	69	5.0	5.5	7.6
280126	Upgrade	65	60	85	46	47	69	44	45	70	-2.5	-2.2	0.4
280127	Upgrade	65	60	85	27	28	47	31	32	53	3.9	4.5	6.4
280128	Upgrade	65	60	85	48	49	71	49	49	70	0.3	0.6	-0.6
280134	New	60	55	80	-	-	-	44	45	67	-	-	-
280143	Upgrade	65	60	85	44	44	65	42	42	64	-2.4	-1.5	-0.4
280148	Upgrade	65	60	85	45	44	65	41	42	63	-3.4	-2.4	-1.8
280150	Upgrade	65	60	85	45	45	68	44	44	68	-1.6	-1.4	-0.1
280152	Upgrade	65	60	85	46	47	70	42	43	68	-4.2	-3.7	-1.6
280159	Upgrade	65	60	85	42	42	63	41	41	64	-1.1	-0.9	1.5
280160	Upgrade	65	60	85	44	44	64	42	43	65	-1.1	-0.5	0.5
280170	Upgrade	65	60	85	46	46	68	44	44	68	-1.7	-1.3	-0.5
280174	Upgrade	65	60	85	48	48	71	47	48	70	-1.1	-0.7	-1.0
280184	Upgrade	65	60	85	41	41	63	39	40	63	-2.1	-1.8	0.6
280212	Upgrade	65	60	85	44	45	67	43	43	67	-1.6	-1.3	-0.1
280215	Upgrade	65	60	85	43	43	63	41	42	64	-1.9	-1.1	1.1
280217	Upgrade	65	60	85	46	46	70	46	46	69	-0.4	0.1	-1.2
280218	Upgrade	65	60	85	44	44	67	42	42	65	-2.3	-1.9	-2.6
280222	Upgrade	65	60	85	43	43	67	42	43	65	-0.6	0.0	-2.1
280224	Upgrade	65	60	85	45	45	67	42	43	65	-2.7	-2.4	-1.7
280226	Upgrade	65	60	85	42	42	63	38	38	63	-4.1	-3.2	-0.2
280245	Upgrade	65	60	85	46	47	69	43	44	68	-3.7	-3.0	-1.9
280248	Upgrade	65	60	85	50	50	74	51	51	74	0.8	1.1	-0.1
280249	Upgrade	65	60	85	48	49	72	43	44	70	-5.2	-4.9	-2.5
280256	Upgrade	65	60	85	42	42	65	40	41	64	-2.0	-1.5	-0.9
280263	Upgrade	65	60	85	49	49	72	47	48	71	-1.7	-1.3	-0.6
280267	Upgrade	65	60	85	37	38	61	43	44	65	5.6	6.1	4.0
280273	Upgrade	65	60	85	45	45	67	44	44	66	-0.9	-0.3	-1.0
280281	Upgrade	65	60	85	44	44	67	43	43	65	-1.1	-0.4	-1.7
280284	Upgrade	65	60	85	42	42	63	38	39	61	-4.2	-3.1	-1.7



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
280290	Upgrade	65	60	85	40	40	66	39	40	62	-1.4	-0.4	-4.0
280296	Upgrade	65	60	85	42	42	65	39	40	62	-2.8	-1.9	-2.6
280300	Upgrade	65	60	85	43	43	63	42	42	64	-1.4	-0.8	1.1
280301	Upgrade	65	60	85	42	42	62	39	39	63	-3.5	-2.6	1.0
280304	Upgrade	65	60	85	41	41	65	38	39	62	-2.8	-1.9	-2.8
280306	Upgrade	65	60	85	42	42	67	39	40	63	-2.7	-1.4	-3.5
280307	Upgrade	65	60	85	43	43	64	43	43	65	-0.4	0.2	1.0
280310	Upgrade	65	60	85	43	43	62	43	43	65	0.1	0.9	2.2
280323	Upgrade	65	60	85	47	48	71	45	46	69	-2.2	-2.0	-2.3
280325	Upgrade	65	60	85	43	43	64	43	44	65	0.2	0.8	1.8
280333	Upgrade	65	60	85	42	42	64	36	36	60	-6.9	-5.4	-3.7
280336	Upgrade	65	60	85	40	40	64	38	39	60	-2.2	-1.4	-3.7
280339	Upgrade	65	60	85	43	43	63	43	43	66	-0.7	0.2	2.7
280343	Upgrade	65	60	85	48	48	71	44	44	69	-4.1	-4.0	-2.3
280348	Upgrade	65	60	85	44	44	68	41	42	64	-3.1	-2.1	-4.2
280352	Upgrade	65	60	85	44	44	67	39	39	64	-5.2	-4.3	-3.6
280360	Upgrade	65	60	85	49	50	73	50	51	72	0.5	0.9	-1.4
280367	Upgrade	65	60	85	48	49	72	47	48	71	-0.9	-0.7	-0.3
280368	Upgrade	65	60	85	44	44	68	41	42	65	-3.3	-2.2	-3.0
280371	Upgrade	65	60	85	39	39	63	45	46	68	6.6	7.1	5.4
280372	Upgrade	65	60	85	45	45	68	39	40	61	-5.8	-5.2	-6.4
280375	Upgrade	65	60	85	44	44	68	40	41	64	-4.0	-2.9	-4.2
280377	Upgrade	65	60	85	39	39	62	43	44	67	4.5	5.2	5.1
280378	Upgrade	65	60	85	44	44	64	41	41	62	-2.9	-2.2	-2.4
280379	Upgrade	65	60	85	44	44	66	37	38	58	-7.4	-6.3	-8.1
280389	Upgrade	65	60	85	44	44	66	39	40	64	-5.0	-4.0	-2.3
280390	Upgrade	65	60	85	46	46	68	40	41	64	-5.2	-4.8	-4.6
280396	Upgrade	65	60	85	39	39	62	44	45	67	5.0	5.6	4.9
280397	Upgrade	65	60	85	45	45	67	41	42	65	-4.0	-3.1	-2.2
280404	Upgrade	65	60	85	41	41	64	46	47	70	4.8	5.4	5.4
280408	Upgrade	65	60	85	45	45	67	41	42	62	-4.4	-3.7	-5.2
280410	Upgrade	65	60	85	44	44	65	41	42	64	-2.9	-2.4	-1.7
280412	Upgrade	65	60	85	46	46	69	41	41	61	-5.4	-4.7	-7.5
280413	Upgrade	65	60	85	50	50	73	49	49	72	-1.4	-1.1	-1.3
280415	Upgrade	65	60	85	49	49	72	43	44	66	-5.3	-4.8	-5.8
280435	Upgrade	65	60	85	49	49	72	46	46	71	-2.8	-2.9	-1.5
280437	Upgrade	65	60	85	43	42	64	40	40	62	-2.9	-2.0	-2.2
280442	Upgrade	65	60	85	43	43	65	40	40	62	-3.4	-2.3	-2.7
280444	Upgrade	65	60	85	44	43	64	41	41	64	-2.5	-1.9	0.9
280445	Upgrade	65	60	85	49	49	74	48	48	74	-0.3	-0.6	0.2
280464	Upgrade	65	60	85	43	43	65	40	40	64	-3.8	-2.8	-1.0
280466	Upgrade	65	60	85	50	50	74	48	49	71	-1.3	-1.2	-2.4
280475	Upgrade	65	60	85	38	39	62	43	44	68	4.6	5.4	5.7
280494	Upgrade	65	60	85	43	43	65	40	41	64	-3.1	-2.2	-1.2
280505	Upgrade	65	60	85	44	43	65	39	39	60	-4.8	-4.0	-4.9
280515	Upgrade	65	60	85	46	46	71	47	47	68	0.6	0.8	-3.8
280524	Upgrade	65	60	85	32	33	56	35	36	58	2.1	2.8	2.0
280527	Upgrade	65	60	85	45	45	68	38	38	60	-7.4	-6.7	-8.2
280531	Upgrade	65	60	85	41	42	65	46	47	70	4.4	5.2	5.5
280535	Upgrade	65	60	85	44	44	69	36	36	59	-8.5	-7.7	-10.2
280542	Upgrade	65	60	85	45	45	70	39	40	63	-5.9	-5.3	-6.7

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
280548	Upgrade	65	60	85	40	40	63	45	46	68	5.6	6.1	4.5
280553	Upgrade	65	60	85	45	45	69	42	43	64	-2.9	-2.1	-5.0
280561	Upgrade	65	60	85	46	46	68	42	42	64	-4.4	-3.7	-3.5
280570	Upgrade	65	60	85	45	45	69	44	45	67	-0.8	0.1	-2.4
280576	Upgrade	65	60	85	48	48	71	45	46	71	-2.3	-2.0	-0.9
280578	Upgrade	65	60	85	48	48	71	45	45	69	-3.3	-3.1	-2.0
280583	Upgrade	65	60	85	44	43	66	40	40	62	-3.9	-2.8	-4.1
280586	Upgrade	65	60	85	49	49	72	47	48	71	-1.7	-1.2	-1.7
280591	Upgrade	65	60	85	46	46	68	42	42	64	-4.1	-3.3	-4.1
280592	Upgrade	65	60	85	48	48	71	46	47	71	-1.2	-1.1	0.6
280595	Upgrade	65	60	85	43	43	65	39	39	62	-4.7	-3.7	-2.6
280603	Upgrade	65	60	85	43	43	69	36	36	58	-7.9	-7.2	-10.7
280604	Upgrade	65	60	85	44	43	66	39	40	63	-4.3	-3.1	-3.9
280605	Upgrade	65	60	85	46	46	72	41	42	64	-4.7	-4.0	-7.9
280609	Upgrade	65	60	85	47	48	70	45	46	69	-2.2	-1.9	-1.5
280612	Upgrade	65	60	85	44	43	66	40	40	61	-4.2	-3.5	-4.7
280621	Upgrade	65	60	85	44	44	66	41	42	65	-3.0	-2.1	-1.7
280622	Upgrade	65	60	85	26	26	52	33	34	54	7.0	7.3	2.2
280623	Upgrade	65	60	85	46	46	68	42	43	64	-3.6	-3.0	-4.1
280627	Upgrade	65	60	85	48	48	72	46	46	69	-1.7	-1.6	-3.0
280640	Upgrade	65	60	85	45	45	69	45	45	67	-0.8	0.0	-2.3
280647	Upgrade	65	60	85	47	47	70	45	45	68	-1.9	-1.7	-2.2
280649	Upgrade	65	60	85	45	45	69	43	44	66	-2.4	-1.7	-3.3
280661	Upgrade	65	60	85	46	46	69	45	46	68	-1.3	-0.9	-0.3
280671	Upgrade	65	60	85	49	49	73	48	48	71	-1.2	-0.8	-1.5
280673	Upgrade	65	60	85	45	44	67	40	40	62	-4.9	-3.8	-5.0
280674	Upgrade	65	60	85	46	47	71	44	45	67	-2.0	-1.4	-3.5
280675	Upgrade	65	60	85	45	45	68	43	43	65	-1.9	-1.8	-2.5
280677	Upgrade	65	60	85	45	45	70	42	43	66	-2.4	-1.7	-3.8
280684	Upgrade	65	60	85	46	45	69	41	42	65	-4.7	-3.4	-4.0
280687	Upgrade	65	60	85	35	36	59	37	37	61	1.3	1.8	1.5
280691	Upgrade	65	60	85	49	49	73	48	49	72	-0.8	-0.4	-0.8
280697	Upgrade	65	60	85	49	49	74	47	47	71	-2.3	-2.1	-2.6
280698	Upgrade	65	60	85	46	46	69	45	46	67	-1.0	-0.7	-2.0
280699	Upgrade	65	60	85	50	50	74	49	49	73	-1.3	-1.0	-1.7
280700	Upgrade	65	60	85	51	52	76	50	51	74	-1.1	-0.7	-1.4
280709	Upgrade	65	60	85	46	46	70	43	44	67	-3.2	-2.3	-3.7
280711	Upgrade	65	60	85	39	39	63	43	44	70	4.0	4.8	6.4
280722	Upgrade	65	60	85	46	46	68	42	42	63	-3.8	-3.3	-4.9
280730	Upgrade	65	60	85	46	46	72	42	43	64	-4.1	-3.9	-8.0
280735	Upgrade	65	60	85	46	46	71	44	44	67	-1.8	-1.7	-3.6
280739	Upgrade	65	60	85	47	47	73	45	46	68	-2.1	-1.4	-4.5
280756	Upgrade	65	60	85	32	32	55	35	36	57	3.1	3.7	2.6
280762	Upgrade	65	60	85	48	48	72	42	43	66	-5.4	-4.7	-5.8
280764	Upgrade	65	60	85	48	48	74	47	48	70	-0.4	0.0	-3.5
280768	Upgrade	65	60	85	48	48	73	44	45	69	-3.8	-3.0	-4.6
280773	Upgrade	65	60	85	46	46	72	41	41	66	-5.6	-4.9	-6.7
280786	Upgrade	65	60	85	47	47	73	44	45	68	-2.2	-1.5	-4.8
280802	Upgrade	65	60	85	49	49	73	49	49	72	-0.5	-0.3	-0.5
280805	Upgrade	65	60	85	45	45	67	42	42	64	-3.1	-2.7	-3.6
280807	Upgrade	65	60	85	44	43	67	42	42	64	-1.9	-1.1	-2.5



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
280808	Upgrade	65	60	85	48	48	73	43	44	67	-4.7	-4.1	-5.8
280811	Upgrade	65	60	85	44	44	66	40	40	63	-4.2	-3.6	-3.4
280812	Upgrade	65	60	85	47	47	73	42	43	65	-4.9	-4.4	-7.5
280815	Upgrade	65	60	85	38	38	62	41	42	68	3.1	3.9	6.1
280817	Upgrade	65	60	85	44	44	68	50	51	75	5.6	6.2	6.4
280818	Upgrade	65	60	85	49	49	76	45	46	70	-3.3	-2.7	-5.6
280819	Upgrade	65	60	85	47	47	73	46	46	71	-1.1	-1.0	-1.7
280820	Upgrade	65	60	85	47	47	72	44	44	66	-3.3	-2.5	-6.6
280823	Upgrade	65	60	85	49	49	76	49	50	72	0.5	0.7	-4.3
280833	Upgrade	65	60	85	50	50	73	49	50	72	-0.4	-0.1	-1.4
280835	Upgrade	65	60	85	47	47	71	43	44	66	-3.9	-3.1	-5.5
280839	Upgrade	65	60	85	46	46	71	44	44	68	-2.5	-2.0	-3.2
280842	Upgrade	65	60	85	39	40	63	45	46	70	5.8	6.3	6.8
280849	Upgrade	65	60	85	47	48	72	44	45	69	-3.3	-2.5	-3.9
280850	Upgrade	65	60	85	47	47	73	45	45	68	-2.5	-2.1	-5.1
280857	Upgrade	65	60	85	46	46	71	42	43	65	-4.0	-3.2	-5.6
280874	Upgrade	65	60	85	47	47	72	44	45	66	-2.7	-2.4	-6.6
280875	Upgrade	65	60	85	45	45	67	42	43	66	-2.5	-2.1	-1.5
280879	Upgrade	65	60	85	48	48	73	45	45	68	-3.2	-3.0	-5.0
280886	Upgrade	65	60	85	50	50	76	47	47	71	-3.4	-3.2	-5.4
280888	Upgrade	65	60	85	48	48	75	47	48	70	-0.7	-0.5	-4.9
280889	Upgrade	65	60	85	43	43	67	40	40	64	-3.4	-2.1	-3.7
280890	Upgrade	65	60	85	47	48	74	44	45	66	-3.3	-2.7	-7.7
280891	Upgrade	65	60	85	44	44	66	42	42	64	-2.7	-2.1	-1.7
280897	Upgrade	65	60	85	47	47	72	45	45	68	-2.1	-1.5	-4.0
280898	Upgrade	65	60	85	47	48	73	44	44	67	-3.8	-3.2	-5.7
280899	Upgrade	65	60	85	52	52	77	50	50	74	-2.0	-1.8	-2.4
280903	Upgrade	65	60	85	47	47	72	40	41	65	-6.6	-6.1	-6.7
280906	Upgrade	65	60	85	38	39	62	39	40	64	0.3	1.0	1.3
280909	Upgrade	65	60	85	51	52	77	48	49	74	-2.8	-2.9	-2.9
280913	Upgrade	65	60	85	47	47	73	42	43	66	-5.0	-4.1	-7.7
280915	Upgrade	65	60	85	47	47	72	41	41	64	-6.0	-5.5	-8.2
280917	Upgrade	65	60	85	21	22	42	28	29	47	6.4	7.0	4.7
280919	Upgrade	65	60	85	48	48	74	44	45	68	-4.1	-3.5	-6.0
280930	Upgrade	65	60	85	51	51	76	48	48	73	-3.0	-3.2	-2.7
280934	Upgrade	65	60	85	50	50	77	45	46	71	-4.9	-4.5	-5.7
280935	Upgrade	65	60	85	48	48	73	41	42	65	-6.4	-5.7	-7.5
280936	Upgrade	65	60	85	47	47	73	42	42	66	-5.5	-5.0	-6.4
280941	Upgrade	65	60	85	46	47	73	41	42	67	-5.3	-4.8	-5.9
280942	Upgrade	65	60	85	45	45	67	42	42	65	-3.4	-2.7	-2.8
280943	Upgrade	65	60	85	48	48	75	46	46	67	-2.6	-2.2	-7.5
280946	Upgrade	65	60	85	51	51	76	50	50	74	-0.9	-0.9	-1.7
280948	Upgrade	65	60	85	48	48	71	40	41	64	-7.5	-6.5	-7.4
280949	Upgrade	65	60	85	51	51	76	48	48	73	-2.7	-2.8	-2.7
280952	Upgrade	65	60	85	48	48	74	43	44	68	-4.7	-4.1	-6.3
280962	Upgrade	65	60	85	46	46	71	42	43	65	-4.6	-3.8	-5.7
280963	Upgrade	65	60	85	48	48	71	40	41	64	-7.7	-7.5	-6.9
280969	Upgrade	65	60	85	49	49	76	46	47	71	-2.7	-2.3	-5.6
280972	Upgrade	65	60	85	47	47	72	45	45	67	-2.4	-2.0	-5.1
280974	Upgrade	65	60	85	51	52	77	49	49	75	-2.6	-2.6	-1.9
280978	Upgrade	65	60	85	46	46	71	39	39	63	-7.3	-6.6	-7.7

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
280979	Upgrade	65	60	85	49	49	75	43	44	68	-5.3	-4.8	-7.2
280981	Upgrade	65	60	85	47	47	72	40	41	62	-6.8	-6.2	-10.3
280989	Upgrade	65	60	85	39	40	64	40	41	68	0.3	0.9	4.3
280992	Upgrade	65	60	85	49	49	75	45	46	69	-3.6	-3.2	-6.0
280993	Upgrade	65	60	85	47	47	73	40	41	65	-6.6	-5.9	-8.0
280997	Upgrade	65	60	85	45	44	69	40	41	63	-4.8	-3.3	-5.9
280998	Upgrade	65	60	85	45	44	67	42	43	65	-2.2	-1.3	-2.2
281001	Upgrade	65	60	85	46	46	71	40	41	63	-6.5	-5.8	-8.6
281003	Upgrade	65	60	85	47	47	74	43	44	66	-3.8	-3.3	-8.1
281007	Upgrade	65	60	85	48	48	74	43	44	68	-4.7	-4.0	-5.7
281012	Upgrade	65	60	85	49	50	75	46	46	70	-3.5	-3.6	-5.9
281019	Upgrade	65	60	85	48	48	74	40	40	64	-8.3	-7.9	-10.1
281023	Upgrade	65	60	85	52	53	79	50	50	74	-2.3	-2.6	-4.5
281027	Upgrade	65	60	85	49	49	76	42	43	68	-6.6	-6.1	-8.0
281028	Upgrade	65	60	85	48	48	73	43	44	66	-4.6	-4.0	-7.4
281029	Upgrade	65	60	85	37	38	61	42	43	64	4.7	5.1	2.3
281032	Upgrade	65	60	85	44	44	70	40	41	63	-3.8	-3.0	-7.5
281034	Upgrade	65	60	85	47	47	72	41	42	65	-5.9	-5.3	-6.8
281035	Upgrade	65	60	85	46	46	71	40	41	64	-6.0	-5.4	-6.7
281039	Upgrade	65	60	85	45	44	66	41	42	63	-3.3	-2.5	-3.2
281042	Upgrade	65	60	85	50	50	74	57	57	80	6.8	6.8	5.6
281045	Upgrade	65	60	85	48	49	75	44	44	68	-4.5	-4.2	-7.0
281053	Upgrade	65	60	85	45	44	69	39	39	62	-5.9	-4.8	-7.0
281060	Upgrade	65	60	85	46	46	71	39	40	63	-7.0	-6.1	-8.6
281061	Upgrade	65	60	85	50	51	76	49	49	73	-1.9	-2.1	-3.0
281065	Upgrade	65	60	85	47	47	73	42	43	66	-5.1	-4.5	-7.3
281076	Upgrade	65	60	85	45	44	68	40	41	63	-4.8	-3.7	-4.5
281077	Upgrade	65	60	85	49	50	78	46	46	71	-2.8	-3.2	-6.4
281078	Upgrade	65	60	85	48	48	74	42	43	67	-6.0	-5.4	-7.6
281079	Upgrade	65	60	85	55	55	81	50	51	75	-4.9	-4.8	-5.9
281083	Upgrade	65	60	85	45	45	67	43	44	64	-2.4	-1.3	-3.5
281084	Upgrade	65	60	85	45	45	69	41	41	63	-4.8	-4.2	-5.5
281087	Upgrade	65	60	85	49	49	74	46	47	70	-2.9	-2.6	-3.6
281088	Upgrade	65	60	85	48	48	73	41	42	64	-6.3	-5.5	-8.7
281089	Upgrade	65	60	85	47	47	71	39	40	63	-7.5	-6.8	-8.6
281092	Upgrade	65	60	85	55	55	81	49	50	74	-5.7	-5.8	-6.9
281093	Upgrade	65	60	85	47	47	72	41	42	66	-5.5	-4.9	-5.4
281097	Upgrade	65	60	85	46	46	71	40	41	64	-5.3	-4.8	-6.8
281098	Upgrade	65	60	85	47	47	70	40	41	65	-6.6	-5.7	-5.3
281100	Upgrade	65	60	85	49	49	75	44	45	66	-4.6	-4.2	-9.0
281101	Upgrade	65	60	85	47	48	74	39	40	63	-7.9	-7.6	-10.8
281104	Upgrade	65	60	85	55	56	81	49	49	74	-6.5	-6.8	-7.4
281105	Upgrade	65	60	85	46	45	69	41	42	65	-5.1	-3.7	-4.3
281114	Upgrade	65	60	85	47	48	74	44	45	67	-3.4	-2.7	-6.4
281115	Upgrade	65	60	85	47	47	72	43	43	65	-4.8	-4.6	-7.2
281119	Upgrade	65	60	85	47	47	71	41	42	64	-6.1	-5.3	-7.2
281125	Upgrade	65	60	85	55	56	81	48	49	74	-6.9	-7.1	-7.7
281127	Upgrade	65	60	85	47	48	71	43	43	65	-4.6	-4.1	-6.1
281128	Upgrade	65	60	85	48	49	76	45	46	68	-3.5	-3.1	-8.3
281130	Upgrade	65	60	85	47	47	71	38	38	62	-9.6	-8.9	-9.6
281134	Upgrade	65	60	85	55	55	81	50	50	75	-4.5	-4.7	-5.5



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
281140	Upgrade	65	60	85	48	48	75	41	42	64	-7.0	-6.6	-10.9
281145	Upgrade	65	60	85	50	50	77	50	50	73	-0.2	-0.4	-4.6
281146	Upgrade	65	60	85	50	50	77	43	44	68	-6.2	-5.7	-9.3
281148	Upgrade	65	60	85	47	47	70	40	41	66	-6.4	-5.5	-3.6
281150	Upgrade	65	60	85	46	46	69	40	41	65	-5.4	-5.0	-3.1
281156	Upgrade	65	60	85	55	55	81	49	49	73	-6.5	-6.5	-8.6
281158	Upgrade	65	60	85	48	48	74	42	43	65	-5.3	-4.9	-8.2
281162	Upgrade	65	60	85	46	46	71	43	43	64	-3.4	-3.1	-7.2
281165	Upgrade	65	60	85	51	52	78	45	46	67	-6.0	-5.8	-10.3
281167	Upgrade	65	60	85	50	50	77	48	47	70	-2.0	-2.4	-6.7
281169	Upgrade	65	60	85	42	42	67	41	42	64	-1.1	0.1	-3.1
281170	Upgrade	65	60	85	29	29	51	41	41	65	11.6	12.0	13.5
281172	Upgrade	65	60	85	48	49	74	44	44	67	-4.8	-4.4	-7.7
281179	Upgrade	65	60	85	45	45	67	40	41	64	-4.9	-3.9	-3.7
281181	Upgrade	65	60	85	48	48	74	40	41	65	-7.6	-7.1	-9.5
281189	Upgrade	65	60	85	43	43	68	39	40	62	-4.4	-3.6	-5.1
281190	Upgrade	65	60	85	48	48	74	44	45	66	-3.9	-3.7	-7.6
281199	Upgrade	65	60	85	44	44	66	41	41	64	-3.5	-3.1	-1.7
281203	Upgrade	65	60	85	50	50	77	47	47	70	-2.9	-3.5	-6.7
281206	Upgrade	65	60	85	48	48	74	42	42	65	-6.3	-5.7	-9.6
281209	Upgrade	65	60	85	55	55	79	49	49	73	-6.1	-6.2	-6.6
281212	Upgrade	65	60	85	43	42	67	40	40	64	-2.5	-2.0	-3.3
281220	Upgrade	65	60	85	51	52	78	46	46	69	-5.4	-5.4	-9.1
281221	Upgrade	65	60	85	55	55	80	47	47	72	-7.7	-8.0	-8.1
281227	Upgrade	65	60	85	49	49	75	41	42	66	-7.5	-7.0	-9.4
281239	Upgrade	65	60	85	49	49	75	41	42	64	-8.3	-7.6	-10.9
281243	Upgrade	65	60	85	50	50	77	46	46	68	-4.1	-4.3	-8.7
281246	Upgrade	65	60	85	44	44	68	40	40	63	-4.4	-3.2	-4.6
281254	Upgrade	65	60	85	52	52	77	47	47	71	-5.2	-5.5	-6.2
281256	Upgrade	65	60	85	48	48	75	41	41	64	-7.3	-6.8	-10.9
281259	Upgrade	65	60	85	55	56	81	48	48	73	-7.1	-7.3	-7.7
281261	Upgrade	65	60	85	50	50	76	40	40	63	-10.1	-9.8	-12.6
281262	Upgrade	65	60	85	46	46	68	42	42	66	-4.1	-3.5	-2.6
281267	Upgrade	65	60	85	47	47	74	40	41	63	-6.8	-6.1	-11.7
281269	Upgrade	65	60	85	42	42	66	40	40	63	-2.4	-1.7	-3.8
281270	Upgrade	65	60	85	25	26	45	39	40	61	13.7	14.1	16.7
281274	Upgrade	65	60	85	47	47	74	39	40	63	-7.6	-6.9	-10.9
281276	Upgrade	65	60	85	48	48	75	39	40	64	-9.2	-8.5	-10.5
281277	Upgrade	65	60	85	49	49	75	42	42	65	-7.4	-6.9	-10.7
281281	Upgrade	65	60	85	22	22	42	29	30	48	7.1	7.4	5.9
281282	Upgrade	65	60	85	51	52	76	46	46	71	-5.1	-5.3	-5.6
281285	Upgrade	65	60	85	55	56	81	48	48	71	-7.4	-7.8	-10.1
281291	Upgrade	65	60	85	44	44	70	39	40	63	-5.2	-4.5	-6.6
281293	Upgrade	65	60	85	44	44	68	40	40	63	-4.3	-3.2	-4.6
281299	Upgrade	65	60	85	51	51	77	47	47	70	-4.5	-4.6	-6.8
281305	Upgrade	65	60	85	55	56	79	47	47	71	-8.4	-8.9	-8.7
281313	Upgrade	65	60	85	45	44	68	41	42	63	-3.5	-2.8	-4.7
281314	Upgrade	65	60	85	44	43	66	40	40	63	-4.3	-3.3	-3.6
281315	Upgrade	65	60	85	50	51	76	45	45	68	-5.4	-5.4	-7.9
281316	Upgrade	65	60	85	52	52	77	42	42	65	-10.4	-10.2	-12.1
281318	Upgrade	65	60	85	51	52	78	43	44	66	-8.2	-7.6	-11.8

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
281320	Upgrade	65	60	85	55	56	82	47	47	71	-8.1	-8.7	-10.5
281330	Upgrade	65	60	85	51	51	75	47	47	70	-4.2	-4.4	-5.1
281335	Upgrade	65	60	85	45	44	69	40	40	63	-4.8	-4.2	-5.7
281337	Upgrade	65	60	85	47	47	71	43	44	66	-3.7	-3.5	-5.2
281339	Upgrade	65	60	85	55	55	81	48	48	70	-7.2	-7.8	-10.9
281340	Upgrade	65	60	85	52	52	78	42	42	67	-9.8	-9.4	-10.6
281349	Upgrade	65	60	85	44	44	68	41	41	64	-3.7	-2.5	-4.0
281350	Upgrade	65	60	85	52	53	76	41	42	67	-11.1	-10.6	-9.6
281360	Upgrade	65	60	85	53	53	77	42	43	68	-10.9	-10.6	-8.9
281363	Upgrade	65	60	85	55	56	81	49	49	72	-6.5	-7.0	-9.0
281372	Upgrade	65	60	85	46	46	69	42	42	66	-4.0	-3.4	-3.3
281376	Upgrade	65	60	85	42	42	67	41	41	63	-1.5	-0.6	-3.3
281378	Upgrade	65	60	85	55	55	81	47	48	72	-7.7	-7.7	-9.0
281379	Upgrade	65	60	85	52	53	76	41	42	65	-11.3	-10.8	-11.7
281383	Upgrade	65	60	85	53	53	76	43	43	67	-9.8	-9.8	-9.8
281398	Upgrade	65	60	85	52	53	77	42	42	66	-10.4	-10.6	-10.9
281399	Upgrade	65	60	85	47	47	74	41	42	63	-5.5	-4.6	-11.1
281400	Upgrade	65	60	85	46	46	71	41	42	63	-4.5	-4.1	-8.5
281407	Upgrade	65	60	85	45	44	69	40	41	64	-5.1	-3.8	-5.6
281414	Upgrade	65	60	85	52	53	76	44	44	68	-8.5	-8.6	-8.5
281415	Upgrade	65	60	85	55	56	80	46	46	70	-9.4	-9.6	-9.4
281416	Upgrade	65	60	85	47	47	75	40	40	61	-7.2	-6.8	-14.4
281421	Upgrade	65	60	85	46	46	71	42	43	63	-3.6	-3.1	-7.7
281427	Upgrade	65	60	85	52	53	76	42	43	66	-10.1	-10.2	-10.6
281428	Upgrade	65	60	85	47	47	72	40	41	62	-6.9	-6.2	-10.2
281430	Upgrade	65	60	85	43	43	68	41	41	64	-2.7	-2.0	-4.3
281437	Upgrade	65	60	85	55	55	81	46	46	69	-9.3	-9.4	-12.3
281444	Upgrade	65	60	85	52	53	76	43	43	65	-9.5	-9.5	-11.4
281445	Upgrade	65	60	85	52	53	77	41	41	65	-11.0	-11.2	-11.6
281448	Upgrade	65	60	85	47	47	71	43	43	64	-4.7	-4.1	-6.6
281451	Upgrade	65	60	85	45	44	68	41	41	64	-3.7	-2.5	-4.0
281452	Upgrade	65	60	85	47	47	72	42	43	65	-4.7	-4.2	-7.4
281454	Upgrade	65	60	85	55	56	82	45	46	71	-9.8	-10.0	-10.6
281464	Upgrade	65	60	85	55	55	81	44	45	70	-11.1	-10.5	-10.8
281465	Upgrade	65	60	85	27	27	52	40	41	62	13.1	13.6	11.3
281467	Upgrade	65	60	85	47	47	72	43	43	64	-4.6	-3.7	-8.0
281468	Upgrade	65	60	85	52	52	76	41	41	65	-11.1	-11.3	-11.5
281479	Upgrade	65	60	85	44	43	68	41	41	64	-2.6	-2.0	-4.7
281482	Upgrade	65	60	85	55	55	79	43	44	70	-11.4	-11.1	-9.0
281484	Upgrade	65	60	85	52	53	77	42	42	66	-10.6	-10.6	-10.7
281491	Upgrade	65	60	85	52	52	77	41	41	65	-11.0	-11.1	-11.2
281499	Upgrade	65	60	85	55	55	81	45	45	68	-9.7	-9.8	-13.0
281507	Upgrade	65	60	85	46	45	70	42	42	65	-4.6	-3.5	-5.2
281512	Upgrade	65	60	85	51	51	76	42	42	65	-8.7	-8.6	-11.5
281520	Upgrade	65	60	85	55	55	80	45	46	68	-9.5	-9.4	-11.7
281524	Upgrade	65	60	85	53	53	79	44	44	67	-8.3	-8.4	-12.4
281526	Upgrade	65	60	85	54	54	79	46	46	70	-8.3	-8.1	-9.9
281528	Upgrade	65	60	85	46	45	70	40	40	62	-6.5	-5.1	-8.0
281537	Upgrade	65	60	85	48	48	73	41	41	64	-7.7	-7.4	-8.9
281539	Upgrade	65	60	85	46	46	70	41	42	63	-4.4	-3.9	-7.1
281543	Upgrade	65	60	85	49	49	73	41	41	64	-7.8	-7.6	-8.7



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
281544	Upgrade	65	60	85	49	49	75	41	41	63	-8.1	-7.5	-11.9
281548	Upgrade	65	60	85	21	21	42	29	29	47	7.8	8.0	5.8
281555	Upgrade	65	60	85	50	50	76	42	42	65	-8.1	-8.2	-11.8
281557	Upgrade	65	60	85	48	46	72	40	40	63	-8.2	-6.4	-8.8
281563	Upgrade	65	60	85	47	46	69	43	43	64	-3.8	-3.2	-5.2
281567	Upgrade	65	60	85	49	49	74	42	42	66	-7.3	-7.2	-8.5
281574	Upgrade	65	60	85	48	48	70	40	41	64	-7.8	-7.4	-6.5
281581	Upgrade	65	60	85	20	21	41	28	29	47	7.9	8.2	5.3
281582	Upgrade	65	60	85	27	27	52	40	41	62	13.8	14.0	10.7
281585	Upgrade	65	60	85	46	46	72	42	42	63	-4.2	-4.5	-9.1
281587	Upgrade	65	60	85	54	55	80	46	46	70	-8.4	-8.6	-10.8
281591	Upgrade	65	60	85	49	47	74	40	41	64	-8.4	-6.6	-9.9
281601	Upgrade	65	60	85	48	47	73	43	43	65	-4.9	-4.6	-7.9
281604	Upgrade	65	60	85	46	46	70	41	42	65	-5.0	-4.1	-5.3
281610	Upgrade	65	60	85	48	48	72	42	43	66	-5.9	-4.9	-6.1
281631	Upgrade	65	60	85	27	27	51	38	38	60	11.3	11.5	9.3
281634	Upgrade	65	60	85	48	47	70	43	43	66	-4.7	-4.4	-4.8
281635	Upgrade	65	60	85	54	54	78	43	44	67	-10.5	-10.3	-11.2
281638	Upgrade	65	60	85	45	45	69	42	42	64	-3.1	-2.8	-4.4
281639	Upgrade	65	60	85	51	51	77	38	38	59	-13.5	-13.5	-18.0
281647	Upgrade	65	60	85	47	46	69	42	43	63	-4.6	-3.7	-5.7
281650	Upgrade	65	60	85	48	47	72	42	43	65	-6.0	-4.7	-7.1
281652	Upgrade	65	60	85	47	46	74	41	41	65	-6.5	-4.8	-9.3
281653	Upgrade	65	60	85	55	55	82	46	46	69	-8.9	-8.7	-13.2
281662	Upgrade	65	60	85	52	52	77	39	40	61	-12.3	-12.0	-15.7
281680	Upgrade	65	60	85	51	51	78	41	41	65	-9.9	-9.3	-13.0
281681	Upgrade	65	60	85	47	46	70	42	42	65	-5.0	-4.1	-5.3
281684	Upgrade	65	60	85	46	45	71	42	42	65	-4.7	-3.2	-6.1
281686	Upgrade	65	60	85	51	51	76	40	41	62	-10.4	-9.9	-14.5
281691	Upgrade	65	60	85	47	47	70	43	43	65	-4.4	-3.5	-4.9
281694	Upgrade	65	60	85	49	49	77	43	43	65	-6.2	-5.6	-12.7
281702	Upgrade	65	60	85	47	47	70	42	42	65	-5.2	-4.4	-5.5
281705	Upgrade	65	60	85	50	50	77	40	41	62	-9.1	-8.7	-14.9
281714	Upgrade	65	60	85	56	56	84	47	47	69	-9.1	-9.3	-14.8
281720	Upgrade	65	60	85	47	47	75	41	41	62	-6.7	-5.9	-13.2
281723	Upgrade	65	60	85	48	48	74	41	42	63	-6.8	-5.9	-10.9
281731	Upgrade	65	60	85	47	45	72	41	41	65	-5.6	-4.1	-7.4
281738	Upgrade	65	60	85	51	51	78	40	41	65	-10.9	-10.6	-12.4
281743	Upgrade	65	60	85	48	48	71	45	45	68	-3.5	-2.6	-3.6
281745	Upgrade	65	60	85	49	49	75	42	43	65	-7.3	-6.7	-10.9
281747	Upgrade	65	60	85	27	27	52	40	41	62	13.1	13.4	9.5
281759	Upgrade	65	60	85	52	52	77	39	40	60	-13.0	-12.5	-16.8
281770	Upgrade	65	60	85	45	45	71	42	42	64	-3.7	-2.8	-7.4
281776	Upgrade	65	60	85	49	49	74	41	42	64	-7.9	-7.4	-10.3
281779	Upgrade	65	60	85	46	45	71	39	39	62	-6.6	-5.3	-8.8
281793	Upgrade	65	60	85	59	60	87	47	48	69	-12.1	-12.1	-17.6
281794	Upgrade	65	60	85	47	47	72	41	42	64	-6.0	-5.0	-7.7
281796	Upgrade	65	60	85	46	46	70	40	41	63	-5.8	-4.7	-6.6
281798	Upgrade	65	60	85	54	54	80	42	43	64	-11.6	-11.4	-15.9
281800	Upgrade	65	60	85	52	52	79	41	42	63	-10.7	-10.7	-15.3
281802	Upgrade	65	60	85	55	55	80	42	43	64	-12.4	-12.2	-16.0

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
281809	Upgrade	65	60	85	48	47	73	41	42	65	-7.1	-5.4	-7.7
281814	Upgrade	65	60	85	28	28	53	44	44	66	15.7	15.8	12.5
281826	Upgrade	65	60	85	47	46	71	41	41	65	-6.2	-5.0	-5.9
281848	Upgrade	65	60	85	47	47	73	40	40	63	-7.2	-6.5	-10.2
281858	Upgrade	65	60	85	49	49	76	42	42	64	-7.2	-6.8	-12.4
281867	Upgrade	65	60	85	51	49	76	42	42	66	-8.7	-6.7	-10.5
281868	Upgrade	65	60	85	47	47	74	40	41	65	-6.2	-6.0	-9.4
281875	Upgrade	65	60	85	48	47	73	42	43	66	-6.0	-4.1	-7.1
281888	Upgrade	65	60	85	49	47	74	39	40	63	-9.5	-7.5	-10.9
281889	Upgrade	65	60	85	50	49	75	43	44	67	-7.0	-5.1	-8.1
281894	Upgrade	65	60	85	52	52	79	42	42	64	-10.0	-10.0	-15.6
281908	Upgrade	65	60	85	50	50	78	41	42	63	-8.4	-7.9	-14.8
281909	Upgrade	65	60	85	49	48	74	43	44	65	-5.6	-4.3	-9.0
281941	Upgrade	65	60	85	49	49	75	42	42	65	-7.3	-6.7	-10.2
281948	Upgrade	65	60	85	56	56	84	42	43	64	-14.0	-13.9	-20.0
281951	Upgrade	65	60	85	48	47	74	42	42	65	-5.6	-5.0	-8.6
281977	Upgrade	65	60	85	50	50	78	44	44	66	-6.6	-6.3	-12.0
281984	Upgrade	65	60	85	44	44	67	42	43	65	-1.5	-1.1	-2.2
281995	Upgrade	65	60	85	46	46	73	41	41	63	-5.7	-5.2	-10.1
282005	Upgrade	65	60	85	27	28	54	35	35	59	7.5	7.5	4.8
282025	Upgrade	65	60	85	47	46	71	42	43	65	-4.4	-2.9	-5.8
282030	Upgrade	65	60	85	47	46	69	43	43	65	-4.0	-2.8	-3.7
282034	Upgrade	65	60	85	60	60	87	43	43	64	-16.9	-16.9	-23.5
282045	Upgrade	65	60	85	47	47	72	42	42	64	-5.5	-5.0	-8.7
282053	Upgrade	65	60	85	48	47	73	41	41	64	-7.5	-6.1	-8.9
282060	Upgrade	65	60	85	57	57	84	42	43	63	-14.8	-14.5	-20.3
282068	Upgrade	65	60	85	57	57	83	42	43	64	-15.1	-14.9	-19.4
282070	Upgrade	65	60	85	30	30	54	42	42	64	12.3	12.4	9.3
282074	Upgrade	65	60	85	54	54	82	42	43	65	-11.8	-11.4	-17.0
282076	Upgrade	65	60	85	19	19	40	28	28	47	8.8	9.2	6.5
282077	Upgrade	65	60	85	50	49	75	42	42	65	-8.5	-6.9	-9.5
282078	Upgrade	65	60	85	49	48	73	41	41	63	-8.1	-6.6	-10.0
282082	Upgrade	65	60	85	51	51	78	43	43	65	-8.7	-8.6	-13.2
282099	Upgrade	65	60	85	49	48	75	41	42	64	-7.8	-6.0	-10.9
282105	Upgrade	65	60	85	50	50	76	42	43	65	-8.2	-7.9	-10.0
282108	Upgrade	65	60	85	51	51	75	42	42	64	-9.1	-8.5	-11.3
282112	Upgrade	65	60	85	57	57	83	45	45	66	-11.7	-11.9	-17.3
282116	Upgrade	65	60	85	52	51	75	43	44	66	-8.5	-7.8	-8.9
282132	Upgrade	65	60	85	48	47	72	43	43	66	-5.5	-4.3	-6.0
282133	Upgrade	65	60	85	47	46	70	41	42	64	-5.7	-4.8	-5.6
282136	Upgrade	65	60	85	28	28	54	37	37	60	8.6	8.8	5.4
282156	Upgrade	65	60	85	48	47	75	41	41	63	-7.7	-6.2	-11.6
282157	Upgrade	65	60	85	47	46	73	40	40	63	-7.5	-5.9	-10.1
282165	Upgrade	65	60	85	28	28	54	42	42	64	13.9	14.3	10.1
282167	Upgrade	65	60	85	51	50	76	42	42	64	-9.1	-7.4	-11.9
282184	Upgrade	65	60	85	55	55	82	44	44	64	-10.9	-10.9	-17.7
282199	Upgrade	65	60	85	59	59	88	45	45	68	-13.9	-13.9	-20.2
282201	Upgrade	65	60	85	20	21	42	29	29	48	8.4	8.6	5.8
282211	Upgrade	65	60	85	47	46	70	41	42	63	-5.6	-4.5	-7.4
282214	Upgrade	65	60	85	25	25	52	36	37	59	11.0	11.3	7.4
282218	Upgrade	65	60	85	58	58	87	43	44	65	-14.3	-14.2	-21.4



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
282219	Upgrade	65	60	85	48	47	71	42	42	65	-5.7	-4.8	-5.9
282221	Upgrade	65	60	85	51	49	77	41	42	64	-9.4	-7.4	-12.5
282222	Upgrade	65	60	85	43	42	69	38	38	61	-5.5	-4.2	-7.6
282229	Upgrade	65	60	85	59	59	89	44	45	65	-14.3	-14.3	-24.0
282230	Upgrade	65	60	85	53	54	82	42	42	64	-11.3	-11.2	-18.1
282231	Upgrade	65	60	85	48	47	70	42	42	65	-5.8	-4.7	-5.1
282233	Upgrade	65	60	85	49	47	75	42	43	66	-6.2	-4.6	-9.4
282235	Upgrade	65	60	85	49	48	72	42	42	64	-7.0	-5.8	-8.1
282261	Upgrade	65	60	85	51	49	75	43	44	67	-7.5	-5.6	-8.3
282264	Upgrade	65	60	85	49	48	72	42	42	65	-6.5	-5.4	-7.6
282265	Upgrade	65	60	85	50	50	78	45	45	68	-5.3	-4.7	-10.3
282268	Upgrade	65	60	85	51	49	78	40	40	63	-10.8	-8.8	-15.5
282279	Upgrade	65	60	85	50	48	74	40	40	63	-9.4	-8.0	-11.5
282280	Upgrade	65	60	85	49	47	74	40	41	63	-8.4	-6.8	-10.3
282285	Upgrade	65	60	85	50	49	73	42	42	64	-8.0	-6.6	-9.3
282290	Upgrade	65	60	85	47	47	75	43	44	66	-4.0	-3.8	-9.2
282291	Upgrade	65	60	85	52	50	76	42	43	65	-9.3	-7.5	-11.0
282292	Upgrade	65	60	85	50	49	75	41	41	63	-9.2	-7.7	-11.7
282296	Upgrade	65	60	85	49	47	73	41	42	64	-7.6	-5.8	-8.9
282297	Upgrade	65	60	85	55	55	86	43	43	64	-11.5	-11.5	-21.7
282299	Upgrade	65	60	85	48	48	72	43	43	65	-5.5	-4.7	-7.2
282303	Upgrade	65	60	85	50	49	75	41	41	64	-9.4	-7.8	-10.7
282310	Upgrade	65	60	85	53	54	84	42	43	64	-10.9	-11.2	-19.2
282311	Upgrade	65	60	85	57	57	89	45	45	68	-12.0	-12.1	-20.9
282313	Upgrade	65	60	85	50	48	74	42	42	64	-7.9	-6.3	-9.3
282314	Upgrade	65	60	85	47	47	71	43	43	65	-4.3	-4.0	-6.4
282316	Upgrade	65	60	85	50	49	74	42	43	65	-7.2	-5.9	-9.1
282319	Upgrade	65	60	85	49	48	75	41	41	64	-8.4	-6.3	-11.4
282323	Upgrade	65	60	85	50	49	73	41	42	64	-8.3	-6.9	-8.9
282324	Upgrade	65	60	85	59	59	87	44	45	66	-14.3	-14.2	-20.4
282327	Upgrade	65	60	85	51	50	75	45	45	67	-6.1	-4.9	-8.1
282331	Upgrade	65	60	85	49	48	75	42	43	65	-6.5	-5.6	-9.9
282334	Upgrade	65	60	85	52	51	77	41	41	64	-11.6	-9.6	-13.2
282335	Upgrade	65	60	85	27	27	55	42	43	65	15.3	15.6	10.4
282336	Upgrade	65	60	85	49	48	74	43	44	66	-5.3	-4.4	-8.5
282339	Upgrade	65	60	85	51	49	75	42	42	65	-9.0	-7.5	-10.3
282340	Upgrade	65	60	85	24	24	46	34	34	55	10.1	10.5	9.0
282349	Upgrade	65	60	85	47	47	71	42	42	64	-5.4	-4.4	-7.0
282350	Upgrade	65	60	85	53	51	77	42	42	64	-11.0	-9.3	-13.3
282365	Upgrade	65	60	85	53	51	79	43	44	66	-9.2	-7.2	-12.8
282368	Upgrade	65	60	85	51	50	76	43	43	66	-8.5	-7.0	-9.8
282371	Upgrade	65	60	85	50	49	73	44	44	66	-6.1	-5.0	-6.5
282373	Upgrade	65	60	85	47	47	70	43	43	65	-4.5	-3.6	-5.4
282374	Upgrade	65	60	85	59	59	87	47	47	70	-12.0	-12.0	-17.2
282383	Upgrade	65	60	85	49	48	73	43	43	65	-6.2	-5.3	-7.7
282395	Upgrade	65	60	85	50	49	77	45	45	68	-4.5	-3.9	-8.3
282396	Upgrade	65	60	85	52	50	79	42	42	65	-10.2	-8.2	-13.5
282398	Upgrade	65	60	85	50	48	75	43	44	66	-6.3	-4.7	-9.6
282399	Upgrade	65	60	85	51	49	77	43	43	66	-7.8	-5.8	-11.3
282400	Upgrade	65	60	85	49	48	74	41	41	63	-8.2	-6.6	-11.1
282402	Upgrade	65	60	85	58	58	87	46	47	70	-11.8	-11.7	-17.0

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmaz	LAeq,15hr	LAeq,9hr	LAmaz	LAeq,15hr	LAeq,9hr	LAmaz
282403	Upgrade	65	60	85	49	49	76	44	44	68	-5.0	-4.4	-7.8
282405	Upgrade	65	60	85	50	48	75	42	42	66	-7.7	-6.0	-9.3
282406	Upgrade	65	60	85	51	50	79	44	45	68	-6.4	-5.7	-11.3
282407	Upgrade	65	60	85	52	51	79	43	43	65	-9.5	-7.5	-13.9
282409	Upgrade	65	60	85	52	50	78	44	44	66	-8.2	-6.2	-11.7
282411	Upgrade	65	60	85	27	27	53	43	43	65	16.0	16.3	12.2
282417	Upgrade	65	60	85	49	48	74	42	42	65	-7.5	-5.9	-9.3
282427	Upgrade	65	60	85	50	50	81	46	46	70	-4.1	-4.0	-10.6
282435	Upgrade	65	60	85	50	49	76	44	45	67	-6.0	-4.3	-8.9
282437	Upgrade	65	60	85	50	50	77	45	46	69	-4.8	-4.1	-8.5
282438	Upgrade	65	60	85	63	64	93	47	47	70	-16.5	-16.6	-23.1
282440	Upgrade	65	60	85	52	52	79	45	45	69	-7.0	-6.9	-10.7
282441	Upgrade	65	60	85	45	44	68	40	40	63	-4.5	-3.3	-4.4
282443	Upgrade	65	60	85	50	49	74	43	44	66	-6.3	-4.9	-7.4
282447	Upgrade	65	60	85	52	52	81	46	46	70	-5.6	-5.5	-11.4
282449	Upgrade	65	60	85	51	51	80	46	47	69	-4.6	-4.3	-10.7
282450	Upgrade	65	60	85	48	47	72	43	43	66	-5.2	-4.1	-6.0
282452	Upgrade	65	60	85	51	49	77	43	43	65	-8.5	-6.5	-11.7
282454	Upgrade	65	60	85	52	50	77	40	40	63	-11.8	-9.9	-14.3
282455	Upgrade	65	60	85	53	52	80	41	41	64	-12.3	-10.3	-15.4
282460	Upgrade	65	60	85	49	49	76	44	45	67	-4.9	-4.1	-8.3
282463	Upgrade	65	60	85	53	53	82	46	46	69	-7.2	-7.0	-12.8
282468	Upgrade	65	60	85	51	49	77	41	41	65	-10.0	-8.3	-12.1
282469	Upgrade	65	60	85	51	49	77	41	42	64	-9.5	-7.7	-13.2
282470	Upgrade	65	60	85	51	49	77	42	43	66	-8.4	-6.7	-11.2
282471	Upgrade	65	60	85	25	26	51	38	39	60	13.1	13.3	9.9
282473	Upgrade	65	60	85	50	49	75	44	44	66	-6.6	-4.9	-9.1
282475	Upgrade	65	60	85	52	52	81	46	47	70	-5.4	-5.0	-10.8
282477	Upgrade	65	60	85	51	49	78	42	42	65	-9.2	-7.2	-13.1
282480	Upgrade	65	60	85	50	49	76	41	42	65	-8.9	-7.4	-11.6
282486	Upgrade	65	60	85	58	58	87	47	47	70	-11.1	-11.2	-16.5
282487	Upgrade	65	60	85	49	48	72	43	43	66	-5.5	-4.5	-5.8
282490	Upgrade	65	60	85	27	28	53	43	43	65	15.2	15.4	11.1
282495	Upgrade	65	60	85	50	50	78	39	39	62	-10.5	-10.3	-15.8
282497	Upgrade	65	60	85	52	50	78	42	43	65	-9.4	-7.5	-13.7
282498	Upgrade	65	60	85	50	50	78	45	45	68	-5.1	-4.5	-9.7
282502	Upgrade	65	60	85	47	47	71	43	43	65	-4.0	-3.6	-6.2
282503	Upgrade	65	60	85	48	48	78	45	45	69	-3.7	-3.4	-9.8
282504	Upgrade	65	60	85	49	48	76	43	43	66	-5.7	-5.0	-10.2
282505	Upgrade	65	60	85	49	49	80	45	46	69	-3.6	-3.3	-10.5
282511	Upgrade	65	60	85	52	51	77	43	44	66	-8.6	-7.2	-10.8
282512	Upgrade	65	60	85	49	48	75	41	41	64	-8.0	-6.2	-11.2
282527	Upgrade	65	60	85	51	50	76	42	43	65	-9.2	-7.5	-11.3
282532	Upgrade	65	60	85	50	50	77	45	46	68	-5.0	-4.2	-8.9
282534	Upgrade	65	60	85	48	48	77	46	46	70	-2.8	-2.4	-7.9
282536	Upgrade	65	60	85	51	51	80	47	47	71	-3.7	-3.5	-8.9
282537	Upgrade	65	60	85	50	49	76	41	42	64	-8.4	-6.9	-12.3
282539	Upgrade	65	60	85	49	48	74	44	44	67	-5.6	-4.1	-7.2
282540	Upgrade	65	60	85	48	48	76	43	44	66	-4.5	-4.0	-9.7
282543	Upgrade	65	60	85	45	45	70	45	46	69	0.1	0.8	-0.5
282551	Upgrade	65	60	85	52	50	79	41	41	63	-11.1	-9.2	-15.4



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
282556	Upgrade	65	60	85	49	48	74	40	40	62	-9.5	-7.7	-12.1
282559	Upgrade	65	60	85	50	48	76	41	41	64	-8.9	-7.2	-11.1
282561	Upgrade	65	60	85	50	49	74	44	44	67	-6.3	-4.8	-7.4
282562	Upgrade	65	60	85	51	49	77	43	43	65	-8.4	-6.5	-11.6
282568	Upgrade	65	60	85	26	26	50	42	43	65	16.4	16.6	14.3
282569	Upgrade	65	60	85	52	52	79	46	46	69	-6.4	-5.9	-9.9
282570	Upgrade	65	60	85	52	52	80	46	46	69	-5.7	-5.1	-10.4
282571	Upgrade	65	60	85	49	49	78	46	47	71	-2.3	-1.9	-7.1
282572	Upgrade	65	60	85	47	47	76	47	47	71	-0.3	0.0	-5.2
282583	Upgrade	65	60	85	51	50	74	44	44	67	-6.5	-5.1	-7.0
282589	Upgrade	65	60	85	48	47	73	44	45	67	-3.6	-2.3	-5.6
282592	Upgrade	65	60	85	49	48	77	47	47	71	-1.5	-1.0	-5.9
282595	Upgrade	65	60	85	51	51	78	46	46	69	-5.3	-4.6	-8.8
282599	Upgrade	65	60	85	50	50	78	47	48	71	-3.2	-2.9	-6.1
282601	Upgrade	65	60	85	54	54	83	45	46	68	-8.4	-8.3	-15.3
282605	Upgrade	65	60	85	51	49	77	42	42	65	-9.0	-7.1	-12.1
282610	Upgrade	65	60	85	59	59	86	46	46	69	-12.6	-12.5	-16.8
282613	Upgrade	65	60	85	51	50	78	42	42	64	-9.8	-7.9	-14.0
282615	Upgrade	65	60	85	52	51	77	41	42	64	-10.7	-8.9	-13.4
282627	Upgrade	65	60	85	50	49	73	44	44	67	-6.1	-5.1	-6.7
282630	Upgrade	65	60	85	49	49	73	44	45	67	-5.0	-4.0	-5.9
282637	Upgrade	65	60	85	48	48	77	46	46	70	-2.5	-2.1	-6.9
282638	Upgrade	65	60	85	25	25	52	44	45	67	19.4	19.7	15.2
282640	Upgrade	65	60	85	50	49	75	43	43	66	-7.0	-5.4	-9.8
282648	Upgrade	65	60	85	50	51	82	44	44	68	-6.4	-6.2	-14.1
282659	Upgrade	65	60	85	51	50	76	40	40	63	-11.1	-9.3	-13.0
282663	Upgrade	65	60	85	51	51	79	46	47	69	-5.2	-4.9	-9.3
282666	Upgrade	65	60	85	57	57	86	48	48	71	-9.2	-9.1	-14.8
282668	Upgrade	65	60	85	50	50	76	47	47	71	-3.2	-3.0	-5.2
282669	Upgrade	65	60	85	47	47	74	46	46	69	-1.7	-1.3	-5.3
282676	Upgrade	65	60	85	48	48	76	51	51	74	3.0	3.2	-2.0
282681	Upgrade	65	60	85	49	49	77	50	50	73	0.4	0.7	-3.9
282689	Upgrade	65	60	85	49	49	77	46	47	70	-3.1	-2.0	-7.3
282694	Upgrade	65	60	85	51	50	76	45	45	68	-6.1	-4.8	-7.8
282702	Upgrade	65	60	85	48	48	77	50	50	74	1.5	2.1	-3.2
282704	Upgrade	65	60	85	49	48	75	39	40	63	-9.9	-8.0	-12.2
282705	Upgrade	65	60	85	49	49	73	44	44	66	-5.3	-4.6	-7.0
282712	Upgrade	65	60	85	54	54	83	47	48	71	-6.2	-6.1	-11.6
282713	Upgrade	65	60	85	49	49	76	50	50	73	0.9	1.3	-2.5
282715	Upgrade	65	60	85	55	54	82	44	44	67	-11.6	-9.6	-14.9
282717	Upgrade	65	60	85	58	58	84	46	46	69	-12.0	-12.0	-14.2
282719	Upgrade	65	60	85	49	49	77	45	45	68	-4.4	-3.9	-9.4
282721	Upgrade	65	60	85	49	49	76	47	48	71	-2.0	-1.6	-4.9
282722	Upgrade	65	60	85	52	52	80	47	48	70	-5.3	-4.9	-9.5
282724	Upgrade	65	60	85	49	48	74	40	40	64	-9.4	-7.8	-10.7
282731	Upgrade	65	60	85	52	51	78	47	47	70	-5.7	-4.1	-7.9
282732	Upgrade	65	60	85	45	45	70	48	49	72	2.9	3.6	2.0
282737	Upgrade	65	60	85	50	49	76	41	41	64	-8.7	-7.2	-12.5
282739	Upgrade	65	60	85	49	48	73	48	48	72	-0.8	-0.2	-0.6
282741	Upgrade	65	60	85	50	50	78	47	47	71	-3.4	-3.1	-7.1
282744	Upgrade	65	60	85	25	25	49	43	43	66	17.7	18.1	16.7

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
282753	Upgrade	65	60	85	47	46	72	49	49	73	2.0	2.5	0.9
282756	Upgrade	65	60	85	56	56	84	48	49	72	-7.6	-7.4	-12.6
282759	Upgrade	65	60	85	53	52	79	44	44	66	-9.9	-8.2	-12.5
282761	Upgrade	65	60	85	60	60	88	48	49	72	-11.3	-11.3	-16.7
282763	Upgrade	65	60	85	52	51	77	46	47	69	-5.6	-4.1	-7.8
282764	Upgrade	65	60	85	24	24	48	43	43	66	18.7	19.0	17.1
282765	Upgrade	65	60	85	51	51	78	46	46	69	-5.5	-4.8	-8.8
282779	Upgrade	65	60	85	53	51	80	41	42	64	-11.4	-9.4	-15.7
282784	Upgrade	65	60	85	55	55	84	49	49	72	-6.1	-5.8	-12.1
282786	Upgrade	65	60	85	52	51	79	46	47	69	-5.1	-4.4	-10.0
282788	Upgrade	65	60	85	49	48	72	48	48	72	-0.7	-0.4	-0.3
282792	Upgrade	65	60	85	54	53	80	46	46	70	-8.5	-7.1	-9.8
282809	Upgrade	65	60	85	24	25	45	45	45	68	20.2	20.3	22.5
282816	Upgrade	65	60	85	52	51	79	47	48	71	-4.8	-3.4	-7.9
282820	Upgrade	65	60	85	58	56	84	48	48	71	-10.0	-8.2	-12.5
282821	Upgrade	65	60	85	52	50	79	43	43	66	-9.4	-7.5	-12.9
282822	Upgrade	65	60	85	59	60	88	50	50	73	-9.5	-9.5	-14.4
282825	Upgrade	65	60	85	58	59	85	46	46	70	-12.3	-12.2	-14.8
282828	Upgrade	65	60	85	50	49	76	42	42	66	-8.2	-6.6	-10.1
282829	Upgrade	65	60	85	50	50	78	45	46	68	-4.7	-4.2	-10.0
282838	Upgrade	65	60	85	52	51	79	40	41	63	-11.8	-9.9	-15.2
282843	Upgrade	65	60	85	52	52	81	50	50	74	-1.6	-1.5	-6.6
282850	Upgrade	65	60	85	45	44	68	52	53	76	7.5	8.4	8.7
282856	Upgrade	65	60	85	46	46	68	52	52	76	5.7	6.5	8.2
282857	Upgrade	65	60	85	47	47	70	47	48	71	-0.2	0.7	0.6
282861	Upgrade	65	60	85	48	48	70	48	48	71	-0.9	-0.1	1.0
282865	Upgrade	65	60	85	46	46	69	52	52	76	6.0	6.9	7.1
282867	Upgrade	65	60	85	57	56	83	47	47	69	-10.6	-9.4	-13.5
282873	Upgrade	65	60	85	50	49	73	47	47	71	-2.7	-2.1	-1.3
282875	Upgrade	65	60	85	49	48	71	51	51	74	1.9	2.9	2.5
282879	Upgrade	65	60	85	49	49	74	47	47	71	-2.7	-2.0	-3.4
282886	Upgrade	65	60	85	53	52	80	48	49	72	-4.6	-3.2	-8.6
282889	Upgrade	65	60	85	52	52	78	48	48	72	-3.6	-3.3	-6.7
282890	Upgrade	65	60	85	54	54	82	48	48	71	-5.8	-5.4	-11.5
282891	Upgrade	65	60	85	53	53	84	49	50	72	-3.6	-3.0	-12.0
282892	Upgrade	65	60	85	58	59	85	47	48	71	-11.0	-10.9	-14.4
282893	Upgrade	65	60	85	50	49	75	41	41	65	-9.0	-7.9	-9.9
282894	Upgrade	65	60	85	23	24	48	42	42	64	18.5	18.8	16.2
282896	Upgrade	65	60	85	56	54	83	44	44	67	-12.0	-10.1	-16.3
282908	Upgrade	65	60	85	69	68	97	49	50	73	-20.1	-18.1	-23.9
282910	Upgrade	65	60	85	49	48	75	41	41	64	-8.6	-6.9	-11.1
282912	Upgrade	65	60	85	60	60	89	52	52	75	-8.4	-8.3	-14.2
282914	Upgrade	65	60	85	52	52	78	43	43	66	-8.9	-8.5	-12.2
282917	Upgrade	65	60	85	24	25	45	45	45	68	20.5	20.7	22.4
282924	Upgrade	65	60	85	58	57	83	45	45	70	-12.3	-11.1	-13.4
282926	Upgrade	65	60	85	55	54	81	43	44	67	-11.9	-10.3	-13.5
282927	Upgrade	65	60	85	49	48	74	48	48	72	-1.0	-0.4	-2.3
282930	Upgrade	65	60	85	59	59	87	50	50	73	-9.4	-9.0	-14.1
282933	Upgrade	65	60	85	53	52	80	46	46	70	-7.2	-5.8	-10.1
282934	Upgrade	65	60	85	60	60	86	48	48	72	-11.9	-11.8	-14.8
282935	Upgrade	65	60	85	19	19	41	31	31	51	11.7	12.0	10.4



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		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
282936	Upgrade	65	60	85	47	46	69	51	51	75	3.9	4.5	5.7
282944	Upgrade	65	60	85	47	47	75	48	48	72	1.1	1.3	-2.6
282946	Upgrade	65	60	85	54	53	82	49	49	72	-5.2	-4.0	-10.0
282947	Upgrade	65	60	85	47	46	69	49	49	73	2.3	3.1	3.6
282948	Upgrade	65	60	85	59	57	86	42	43	66	-16.2	-14.2	-19.7
282949	Upgrade	65	60	85	47	47	71	47	47	70	-0.3	0.2	-1.1
282955	Upgrade	65	60	85	49	49	74	49	50	73	0.3	0.9	-1.2
282957	Upgrade	65	60	85	57	56	83	46	46	69	-11.7	-9.5	-14.5
282966	Upgrade	65	60	85	47	47	70	49	49	73	1.9	2.8	3.0
282972	Upgrade	65	60	85	59	60	87	46	47	69	-13.2	-13.1	-17.8
282978	Upgrade	65	60	85	47	47	70	50	51	75	3.1	3.8	4.3
282980	Upgrade	65	60	85	49	49	77	49	49	73	0.5	0.8	-4.0
282983	Upgrade	65	60	85	54	53	81	43	44	67	-10.9	-9.6	-13.7
282994	Upgrade	65	60	85	62	61	87	51	51	75	-11.2	-10.1	-12.2
282998	Upgrade	65	60	85	60	60	89	50	50	73	-9.9	-9.7	-16.3
283001	Upgrade	65	60	85	60	60	88	45	46	68	-14.7	-14.6	-19.2
283002	Upgrade	65	60	85	48	48	71	44	45	68	-4.0	-3.3	-2.6
283003	Upgrade	65	60	85	47	47	71	49	49	73	1.7	2.7	1.8
283009	Upgrade	65	60	85	57	56	86	51	51	74	-5.5	-5.0	-12.7
283014	Upgrade	65	60	85	63	62	89	49	49	73	-14.0	-12.6	-16.4
283015	Upgrade	65	60	85	50	50	78	48	49	72	-2.0	-1.5	-6.1
283017	Upgrade	65	60	85	47	47	69	50	50	73	2.1	2.7	4.3
283021	Upgrade	65	60	85	57	57	87	51	51	75	-5.9	-5.5	-11.8
283022	New	60	55	80	-	-	-	53	53	76	-	-	-
283036	Upgrade	65	60	85	59	57	85	43	43	66	-15.7	-13.8	-18.9
283037	New	60	55	80	-	-	-	54	54	77	-	-	-
283041	Upgrade	65	60	85	53	52	77	44	44	67	-9.3	-7.9	-10.1
283045	Upgrade	65	60	85	54	53	81	45	45	69	-9.4	-7.7	-12.0
283053	Upgrade	65	60	85	48	48	71	50	50	74	2.2	2.8	3.6
283056	Upgrade	65	60	85	48	48	73	46	47	69	-2.2	-1.5	-4.2
283060	Upgrade	65	60	85	58	58	86	47	47	70	-11.4	-11.4	-16.3
283061	Upgrade	65	60	85	59	58	88	50	51	74	-8.2	-7.8	-13.7
283066	New	60	55	80	-	-	-	50	50	74	-	-	-
283077	Upgrade	65	60	85	74	72	102	48	48	71	-26.0	-23.7	-30.5
283082	Upgrade	65	60	85	63	62	88	51	52	75	-11.2	-10.2	-13.5
283085	Upgrade	65	60	85	49	49	73	50	50	74	0.4	1.1	0.8
283089	Upgrade	65	60	85	53	53	83	46	46	69	-6.9	-6.4	-14.4
283095	New	60	55	80	-	-	-	50	51	74	-	-	-
283096	Upgrade	65	60	85	62	60	89	44	44	68	-18.0	-16.1	-21.1
283100	Upgrade	65	60	85	47	46	70	50	51	74	3.7	4.8	3.9
283105	Upgrade	65	60	85	59	60	86	47	47	70	-12.5	-12.3	-15.9
283115	Upgrade	65	60	85	50	50	76	48	48	72	-2.0	-1.3	-4.4
283118	Upgrade	65	60	85	59	59	86	47	47	70	-12.6	-12.4	-16.4
283121	Upgrade	65	60	85	61	60	88	47	47	70	-14.7	-13.0	-17.9
283122	Upgrade	65	60	85	52	52	79	49	50	73	-2.9	-2.4	-6.5
283128	Upgrade	65	60	85	59	57	86	46	46	69	-13.3	-11.2	-17.5
283129	Upgrade	65	60	85	47	47	70	51	52	75	4.3	5.0	4.8
283131	New	60	55	80	-	-	-	51	52	75	-	-	-
283134	Upgrade	65	60	85	60	60	87	46	47	70	-13.8	-13.7	-17.2
283136	Upgrade	65	60	85	51	51	77	49	49	73	-2.2	-1.6	-4.6
283140	New	60	55	80	-	-	-	52	53	76	-	-	-

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		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
283142	Upgrade	65	60	85	25	25	49	41	42	63	16.6	16.9	14.0
283145	New	60	55	80	-	-	-	51	51	75	-	-	-
283146	Upgrade	65	60	85	59	58	86	47	47	70	-12.0	-10.9	-15.4
283148	Upgrade	65	60	85	48	48	73	51	51	75	2.6	3.3	2.3
283154	Upgrade	65	60	85	68	66	93	48	49	71	-19.4	-17.5	-22.0
283155	Upgrade	65	60	85	48	48	70	52	52	75	3.3	4.0	5.0
283161	Upgrade	65	60	85	51	50	79	48	48	71	-2.8	-2.4	-7.5
283162	Upgrade	65	60	85	60	60	87	46	47	70	-13.6	-13.6	-17.0
283165	New	60	55	80	-	-	-	52	53	76	-	-	-
283168	Upgrade	65	60	85	47	47	73	51	51	75	3.5	4.3	1.8
283173	Upgrade	65	60	85	57	56	82	45	45	68	-12.2	-10.4	-13.5
283175	Upgrade	65	60	85	47	47	70	51	52	75	3.9	4.8	4.4
283178	Upgrade	65	60	85	48	47	74	49	49	72	1.2	1.9	-1.3
283182	Upgrade	65	60	85	23	23	47	42	43	65	19.5	19.8	17.2
283188	Upgrade	65	60	85	61	59	86	47	47	70	-13.6	-12.2	-16.4
283194	Upgrade	65	60	85	50	50	75	49	49	73	-1.3	-0.7	-2.5
283195	Upgrade	65	60	85	58	56	84	45	46	69	-12.2	-10.3	-15.1
283196	New	60	55	80	-	-	-	51	51	74	-	-	-
283197	Upgrade	65	60	85	60	61	90	48	48	72	-12.4	-12.3	-18.1
283204	Upgrade	65	60	85	47	47	70	52	52	75	4.5	5.4	5.7
283209	Upgrade	65	60	85	51	51	81	47	47	70	-3.8	-3.4	-10.7
283211	Upgrade	65	60	85	65	63	92	47	47	69	-18.2	-16.1	-22.9
283212	Upgrade	65	60	85	50	50	78	47	47	70	-3.0	-2.6	-7.2
283213	Upgrade	65	60	85	64	63	90	47	47	70	-17.2	-15.5	-20.7
283214	New	60	55	80	-	-	-	54	54	77	-	-	-
283215	New	60	55	80	-	-	-	50	51	74	-	-	-
283217	Upgrade	65	60	85	60	60	87	49	49	72	-11.0	-10.8	-15.7
283219	Upgrade	65	60	85	49	48	76	47	47	71	-1.8	-1.1	-5.0
283220	New	60	55	80	-	-	-	55	56	78	-	-	-
283227	Upgrade	65	60	85	23	23	46	45	45	67	21.7	22.1	21.9
283229	Upgrade	65	60	85	64	63	90	47	48	69	-17.1	-15.6	-20.6
283231	Upgrade	65	60	85	60	60	88	49	49	72	-11.0	-11.0	-16.4
283233	Upgrade	65	60	85	47	47	71	52	52	76	4.7	5.8	5.1
283234	Upgrade	65	60	85	61	59	88	45	46	68	-15.8	-13.7	-20.3
283237	Upgrade	65	60	85	52	52	81	47	48	70	-4.6	-4.0	-10.6
283242	Upgrade	65	60	85	60	60	89	50	50	73	-10.1	-9.8	-15.6
283246	Upgrade	65	60	85	50	50	78	49	49	71	-1.8	-1.2	-6.8
283248	Upgrade	65	60	85	45	44	72	50	50	74	5.0	5.9	2.0
283252	New	60	55	80	-	-	-	53	53	76	-	-	-
283256	Upgrade	65	60	85	49	48	74	47	48	69	-1.3	-0.5	-4.8
283267	Upgrade	65	60	85	60	60	89	50	51	74	-9.4	-9.2	-15.9
283270	Upgrade	65	60	85	50	50	77	48	49	72	-2.1	-1.0	-5.8
283271	New	60	55	80	-	-	-	50	51	74	-	-	-
283274	Upgrade	65	60	85	52	52	81	49	49	72	-3.6	-3.0	-8.7
283288	Upgrade	65	60	85	58	58	87	50	50	72	-8.0	-7.6	-14.9
283305	Upgrade	65	60	85	48	47	72	50	50	74	2.0	3.0	1.1
283306	Upgrade	65	60	85	52	51	80	47	48	70	-4.2	-3.4	-10.0
283307	New	60	55	80	-	-	-	53	54	76	-	-	-
283316	Upgrade	65	60	85	53	52	85	52	52	74	-1.0	-0.5	-11.1
283322	Upgrade	65	60	85	49	48	76	48	48	71	-0.8	0.1	-4.9
283326	Upgrade	65	60	85	60	59	85	45	46	68	-15.1	-13.4	-17.1



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		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
283328	Upgrade	65	60	85	58	58	85	50	50	73	-8.3	-7.5	-11.9
283329	Upgrade	65	60	85	50	50	83	51	51	74	0.3	1.2	-9.5
283330	Upgrade	65	60	85	69	67	96	46	47	69	-22.3	-20.4	-26.8
283331	Upgrade	65	60	85	66	65	93	46	46	68	-20.8	-19.2	-24.6
283332	New	60	55	80	-	-	-	53	53	76	-	-	-
283335	Upgrade	65	60	85	51	50	76	47	47	69	-3.6	-2.6	-6.2
283338	Upgrade	65	60	85	58	58	86	51	51	73	-7.7	-6.8	-13.2
283342	Upgrade	65	60	85	65	64	91	46	46	70	-19.3	-18.0	-21.7
283346	Upgrade	65	60	85	70	68	97	47	47	70	-23.1	-21.0	-27.6
283347	Upgrade	65	60	85	52	51	79	48	48	72	-3.7	-2.9	-6.8
283351	Upgrade	65	60	85	62	62	89	47	48	70	-15.1	-14.3	-18.7
283352	Upgrade	65	60	85	48	47	72	50	51	74	2.6	3.7	2.2
283354	New	60	55	80	-	-	-	53	53	76	-	-	-
283355	Upgrade	65	60	85	58	58	87	50	51	72	-8.2	-7.2	-14.2
283357	Upgrade	65	60	85	63	61	90	47	47	70	-16.3	-14.3	-20.6
283365	New	60	55	80	-	-	-	56	56	79	-	-	-
283367	Upgrade	65	60	85	70	68	98	45	46	68	-24.8	-22.5	-29.3
283370	Upgrade	65	60	85	50	49	78	47	47	70	-2.9	-1.9	-8.4
283375	Upgrade	65	60	85	61	59	88	48	48	71	-12.9	-11.0	-17.2
283380	Upgrade	65	60	85	63	62	88	45	45	67	-18.1	-17.1	-21.4
283382	Upgrade	65	60	85	62	61	89	46	46	68	-16.2	-15.5	-20.7
283389	New	60	55	80	-	-	-	51	52	75	-	-	-
283395	Upgrade	65	60	85	72	70	98	49	49	71	-23.0	-21.5	-26.9
283396	Upgrade	65	60	85	60	59	86	47	48	70	-12.2	-11.0	-15.2
283398	Upgrade	65	60	85	70	68	98	48	48	71	-22.4	-20.3	-26.9
283410	Upgrade	65	60	85	71	70	99	46	46	68	-25.7	-23.5	-30.8
283412	Upgrade	65	60	85	48	47	73	50	51	73	1.9	3.1	-0.3
283413	Upgrade	65	60	85	60	60	87	46	47	69	-14.0	-13.2	-17.5
283414	Upgrade	65	60	85	60	59	86	48	48	71	-12.1	-11.2	-15.1
283418	Upgrade	65	60	85	48	47	73	51	52	75	3.6	4.8	2.2
283423	Upgrade	65	60	85	70	68	97	46	46	69	-24.3	-22.2	-28.0
283426	Upgrade	65	60	85	49	48	74	47	47	70	-1.8	-0.8	-3.6
283427	Upgrade	65	60	85	50	49	77	47	48	70	-2.3	-1.5	-6.9
283429	Upgrade	65	60	85	67	66	94	46	47	70	-21.1	-19.5	-24.3
283433	Upgrade	65	60	85	49	48	75	48	48	70	-1.5	-0.2	-4.8
283442	Upgrade	65	60	85	74	72	100	47	47	71	-26.5	-24.9	-29.1
283448	Upgrade	65	60	85	66	65	92	46	47	69	-19.6	-18.1	-22.9
283450	Upgrade	65	60	85	61	60	87	46	46	68	-15.9	-14.4	-18.8
283451	Upgrade	65	60	85	67	65	95	46	47	70	-20.8	-18.7	-25.0
283455	Upgrade	65	60	85	49	48	75	46	46	68	-3.5	-2.3	-6.8
283461	Upgrade	65	60	85	57	56	83	44	45	67	-12.6	-11.5	-16.4
283463	New	60	55	80	-	-	-	52	53	76	-	-	-
283467	Upgrade	65	60	85	57	57	86	46	46	68	-11.9	-11.2	-17.4
283469	Upgrade	65	60	85	60	59	87	47	47	70	-13.3	-11.5	-17.5
283471	Upgrade	65	60	85	69	68	95	47	48	71	-21.6	-20.1	-24.5
283472	Upgrade	65	60	85	59	58	84	46	46	68	-13.1	-11.8	-15.6
283475	Upgrade	65	60	85	63	62	90	45	46	69	-17.9	-16.1	-21.4
283489	Upgrade	65	60	85	52	51	78	47	48	71	-4.9	-3.4	-6.8
283505	Upgrade	65	60	85	57	56	83	46	47	69	-11.0	-9.3	-14.0
283517	Upgrade	65	60	85	56	55	83	46	46	69	-10.2	-9.0	-14.2
283519	Upgrade	65	60	85	58	56	84	45	46	68	-12.1	-10.4	-15.9

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
283521	Upgrade	65	60	85	67	65	95	47	47	69	-20.2	-18.0	-25.2
283524	Upgrade	65	60	85	65	63	92	47	47	70	-18.5	-16.3	-21.9
283526	Upgrade	65	60	85	68	66	96	47	48	71	-20.6	-18.7	-25.0
283533	Upgrade	65	60	85	50	49	76	49	50	73	-0.4	0.7	-3.0
283534	Upgrade	65	60	85	55	55	81	46	46	69	-9.5	-8.4	-12.6
283549	Upgrade	65	60	85	53	53	81	47	47	70	-6.4	-5.5	-11.5
283551	Upgrade	65	60	85	48	47	73	52	52	75	4.1	5.4	2.4
283556	Upgrade	65	60	85	49	47	73	51	52	75	2.9	4.5	1.9
283559	Upgrade	65	60	85	49	48	76	48	48	70	-1.3	0.0	-5.7
283562	Upgrade	65	60	85	51	50	78	48	48	71	-3.0	-1.5	-6.9
283567	Upgrade	65	60	85	50	49	77	48	48	70	-2.2	-1.1	-7.3
283575	Upgrade	65	60	85	54	53	81	49	49	71	-5.5	-4.1	-9.8
283580	Upgrade	65	60	85	62	60	89	46	46	69	-16.4	-14.2	-20.8
283581	Upgrade	65	60	85	60	58	84	44	45	67	-15.1	-13.0	-16.9
283587	Upgrade	65	60	85	64	62	92	46	46	69	-18.1	-15.9	-23.0
283596	Upgrade	65	60	85	47	46	71	51	52	75	3.9	5.2	4.0
283598	Upgrade	65	60	85	55	54	81	45	46	69	-10.0	-8.4	-12.1
283599	Upgrade	65	60	85	71	69	99	46	46	68	-25.5	-23.5	-30.7
283600	Upgrade	65	60	85	54	53	79	46	46	69	-8.0	-6.7	-10.4
283608	Upgrade	65	60	85	49	48	73	47	47	69	-2.3	-0.7	-3.9
283611	Upgrade	65	60	85	68	66	95	47	47	70	-20.8	-18.7	-24.8
283613	Upgrade	65	60	85	57	56	83	47	47	70	-10.6	-9.3	-12.7
283615	Upgrade	65	60	85	52	52	80	46	47	69	-6.0	-5.2	-10.9
283618	Upgrade	65	60	85	49	48	73	47	47	69	-1.7	-0.3	-3.6
283619	Upgrade	65	60	85	49	48	73	47	47	70	-2.1	-0.8	-3.2
283620	Upgrade	65	60	85	50	49	76	46	47	69	-3.6	-2.5	-7.4
283625	Upgrade	65	60	85	51	50	79	48	48	71	-3.0	-2.0	-8.5
283649	Upgrade	65	60	85	50	49	74	47	47	70	-2.6	-1.5	-4.0
283651	Upgrade	65	60	85	50	49	75	47	47	69	-3.1	-2.0	-5.3
283652	Upgrade	65	60	85	58	56	85	47	47	70	-11.2	-9.4	-15.5
283655	Upgrade	65	60	85	57	55	84	43	44	67	-13.4	-11.5	-17.1
283664	Upgrade	65	60	85	56	55	83	45	45	68	-10.8	-9.1	-14.9
283670	Upgrade	65	60	85	53	52	78	46	46	69	-7.5	-5.9	-9.6
283672	Upgrade	65	60	85	50	49	76	47	47	70	-2.8	-1.8	-5.8
283674	Upgrade	65	60	85	62	60	89	46	46	69	-15.5	-13.3	-19.8
283681	Upgrade	65	60	85	80	78	107	48	48	71	-32.0	-30.3	-35.9
283682	Upgrade	65	60	85	51	50	78	45	45	68	-6.3	-4.8	-9.1
283683	Upgrade	65	60	85	67	65	95	47	48	71	-19.8	-17.6	-24.1
283690	Upgrade	65	60	85	56	55	81	46	46	69	-10.5	-8.8	-12.9
283694	Upgrade	65	60	85	61	59	88	46	46	69	-14.9	-12.8	-18.7
283700	Upgrade	65	60	85	47	46	72	47	47	69	-0.4	0.9	-3.2
283703	Upgrade	65	60	85	52	51	77	48	48	71	-4.0	-2.5	-6.0
283711	Upgrade	65	60	85	49	48	75	49	49	72	-0.4	0.9	-3.5
283715	Upgrade	65	60	85	62	60	89	46	46	69	-15.8	-13.7	-20.2
283717	Upgrade	65	60	85	77	77	107	51	51	74	-26.7	-25.5	-33.1
283724	Upgrade	65	60	85	46	45	70	53	53	76	6.5	7.9	6.4
283732	Upgrade	65	60	85	58	57	86	44	44	67	-14.5	-12.5	-18.5
283734	Upgrade	65	60	85	61	59	88	46	46	69	-15.1	-13.0	-19.5
283735	Upgrade	65	60	85	68	66	96	47	47	70	-21.3	-19.1	-25.9
283739	Upgrade	65	60	85	51	50	75	49	50	72	-1.2	0.2	-2.9
283740	Upgrade	65	60	85	72	70	100	45	46	68	-26.7	-24.4	-31.5



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
283741	Upgrade	65	60	85	58	56	84	47	47	70	-10.6	-8.9	-14.6
283744	Upgrade	65	60	85	51	50	76	48	48	70	-3.1	-1.5	-5.2
283749	Upgrade	65	60	85	54	52	78	48	48	71	-5.7	-4.1	-6.9
283754	Upgrade	65	60	85	53	52	79	45	46	68	-7.7	-6.4	-11.2
283755	Upgrade	65	60	85	45	44	69	51	52	74	6.4	7.8	5.4
283759	Upgrade	65	60	85	61	59	89	46	47	70	-14.9	-12.7	-19.3
283761	Upgrade	65	60	85	48	47	73	50	50	72	1.4	3.0	-0.9
283763	Upgrade	65	60	85	51	50	76	47	48	70	-4.0	-2.3	-6.3
283764	Upgrade	65	60	85	59	57	83	47	47	70	-12.1	-10.2	-13.3
283767	Upgrade	65	60	85	52	51	79	46	47	70	-6.0	-4.4	-9.2
283771	Upgrade	65	60	85	45	44	71	49	49	72	4.1	5.2	0.2
283774	Upgrade	65	60	85	51	50	76	47	47	69	-4.4	-3.0	-7.2
283788	Upgrade	65	60	85	51	50	77	48	48	71	-3.1	-1.9	-6.2
283791	Upgrade	65	60	85	48	47	71	49	49	72	0.6	2.0	0.5
283797	Upgrade	65	60	85	58	56	85	46	47	69	-11.7	-9.7	-16.1
283798	Upgrade	65	60	85	59	57	86	46	46	69	-13.0	-10.9	-17.3
283800	Upgrade	65	60	85	48	47	72	48	49	70	-0.2	1.1	-1.8
283801	Upgrade	65	60	85	57	55	81	47	47	70	-10.0	-8.0	-11.3
283805	Upgrade	65	60	85	54	53	79	47	47	70	-6.5	-5.1	-8.7
283813	Upgrade	65	60	85	49	48	73	48	49	72	-0.8	0.5	-1.8
283815	Upgrade	65	60	85	56	54	81	47	47	69	-9.0	-7.0	-12.7
283818	Upgrade	65	60	85	57	55	83	44	44	67	-13.0	-11.1	-16.4
283819	Upgrade	65	60	85	54	52	78	48	49	71	-5.5	-3.9	-7.2
283823	Upgrade	65	60	85	49	49	75	50	50	72	0.3	1.4	-2.7
283833	Upgrade	65	60	85	45	44	73	48	49	71	3.6	4.1	-2.1
283838	Upgrade	65	60	85	60	58	87	47	48	71	-12.4	-10.3	-16.0
283851	Upgrade	65	60	85	51	50	76	50	50	72	-1.8	-0.3	-4.2
283854	Upgrade	65	60	85	58	57	86	47	47	70	-11.5	-9.5	-15.6
283857	Upgrade	65	60	85	56	54	83	47	48	70	-8.8	-6.8	-12.4
283858	Upgrade	65	60	85	64	62	91	46	47	70	-17.3	-15.2	-21.2
283862	Upgrade	65	60	85	53	51	79	47	47	69	-6.2	-4.5	-9.7
283866	Upgrade	65	60	85	64	63	92	46	47	70	-18.0	-15.9	-22.2
283874	Upgrade	65	60	85	61	59	87	45	46	68	-15.5	-13.8	-19.5
283877	Upgrade	65	60	85	55	54	82	45	45	67	-10.5	-8.6	-14.4
283881	Upgrade	65	60	85	55	54	81	48	48	70	-7.2	-5.3	-10.2
283882	Upgrade	65	60	85	66	64	94	45	45	68	-21.1	-19.1	-25.5
283888	New	60	55	80	-	-	-	48	48	70	-	-	-
283891	New	60	55	80	-	-	-	51	51	74	-	-	-
283893	Upgrade	65	60	85	59	57	86	47	48	70	-11.1	-9.1	-15.6
283896	Upgrade	65	60	85	67	66	95	47	48	71	-19.9	-18.1	-23.4
283897	New	60	55	80	-	-	-	47	48	71	-	-	-
283901	Upgrade	65	60	85	56	54	83	47	47	70	-8.8	-6.9	-13.3
283902	Upgrade	65	60	85	48	46	72	48	48	71	0.3	1.8	-1.0
283905	Upgrade	65	60	85	60	58	87	46	46	68	-13.6	-11.5	-18.8
283911	Upgrade	65	60	85	54	53	81	47	48	71	-7.1	-5.5	-10.0
283912	Upgrade	65	60	85	49	49	73	50	50	74	0.3	1.2	0.9
283914	Upgrade	65	60	85	47	46	71	47	48	71	0.0	1.4	0.2
283919	Upgrade	65	60	85	53	52	77	47	48	70	-5.8	-4.3	-7.4
283921	Upgrade	65	60	85	47	46	71	47	47	70	-0.6	0.7	-0.8
283927	Upgrade	65	60	85	50	49	74	49	49	71	-1.2	0.0	-3.6
283933	Upgrade	65	60	85	50	48	74	49	49	72	-1.0	0.4	-1.9

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax
283936	Upgrade	65	60	85	49	48	75	49	50	72	0.1	1.6	-3.0
283937	Upgrade	65	60	85	50	49	74	48	48	70	-2.1	-0.9	-3.2
283939	Upgrade	65	60	85	53	52	79	47	47	70	-6.2	-4.5	-8.7
283940	Upgrade	65	60	85	59	57	86	48	49	71	-10.4	-8.2	-14.2
283944	Upgrade	65	60	85	52	51	78	48	49	71	-3.8	-2.1	-6.9
283946	Upgrade	65	60	85	55	54	82	46	46	69	-9.1	-7.4	-12.6
283949	New	60	55	80	-	-	-	51	51	73	-	-	-
283952	Upgrade	65	60	85	52	50	76	48	49	71	-3.4	-1.7	-5.4
283953	Upgrade	65	60	85	54	52	78	47	47	70	-6.8	-5.0	-8.5
283959	Upgrade	65	60	85	51	50	76	46	47	70	-4.3	-2.8	-6.2
283964	Upgrade	65	60	85	51	50	75	48	48	71	-3.1	-1.7	-4.5
283966	Upgrade	65	60	85	56	55	83	48	49	71	-7.9	-5.8	-12.2
283967	Upgrade	65	60	85	52	51	77	48	49	71	-3.7	-1.8	-6.1
283972	Upgrade	65	60	85	51	50	75	49	49	72	-2.0	-0.3	-3.3
283973	Upgrade	65	60	85	54	52	80	48	48	71	-5.9	-4.3	-8.8
283976	New	60	55	80	-	-	-	49	50	71	-	-	-
283981	Upgrade	65	60	85	52	51	76	47	47	69	-5.5	-4.1	-7.5
283984	New	60	55	80	-	-	-	48	49	71	-	-	-
283985	Upgrade	65	60	85	52	50	76	47	47	70	-4.8	-3.0	-6.4
283987	Upgrade	65	60	85	56	55	80	46	46	69	-10.6	-9.4	-11.2
283990	Upgrade	65	60	85	51	50	75	46	46	68	-4.9	-3.6	-6.7
283992	Upgrade	65	60	85	56	55	80	46	47	70	-9.4	-8.3	-9.2
283993	Upgrade	65	60	85	51	50	75	49	49	72	-1.8	-0.1	-3.5
283994	Upgrade	65	60	85	61	61	87	49	49	72	-12.1	-11.4	-14.7
283997	Upgrade	65	60	85	52	50	78	46	46	69	-6.0	-4.4	-9.1
283998	Upgrade	65	60	85	59	59	85	47	47	70	-12.2	-11.3	-14.5
284000	New	60	55	80	-	-	-	49	49	71	-	-	-
284005	Upgrade	65	60	85	50	49	76	49	49	72	-1.7	0.0	-3.8
284006	Upgrade	65	60	85	58	57	83	46	46	70	-11.6	-10.2	-13.4
284007	Upgrade	65	60	85	54	53	80	48	48	70	-6.5	-4.5	-10.3
284009	New	60	55	80	-	-	-	49	49	71	-	-	-
284010	Upgrade	65	60	85	14	15	39	31	32	52	16.5	16.9	13.3
284014	Upgrade	65	60	85	54	53	81	48	49	71	-5.9	-4.4	-9.9
284016	Upgrade	65	60	85	47	46	71	49	49	71	2.3	3.9	0.5
284017	Upgrade	65	60	85	50	49	77	46	46	68	-4.6	-3.0	-8.4
284020	Upgrade	65	60	85	47	46	71	50	50	72	2.7	4.2	0.2
284026	Upgrade	65	60	85	52	51	79	47	48	70	-4.9	-3.1	-9.4
284028	Upgrade	65	60	85	47	46	71	49	49	72	2.3	3.2	0.5
284030	Upgrade	65	60	85	50	49	74	48	48	71	-2.0	-0.5	-3.6
284032	Upgrade	65	60	85	52	50	79	47	47	70	-5.1	-3.3	-8.3
284035	Upgrade	65	60	85	60	60	86	49	49	72	-11.1	-10.6	-14.5
284043	Upgrade	65	60	85	53	51	77	46	46	68	-7.3	-5.4	-9.0
284056	Upgrade	65	60	85	50	49	75	46	47	70	-3.3	-1.9	-5.5
284057	Upgrade	65	60	85	54	53	81	48	49	71	-6.1	-4.3	-10.6
284073	Upgrade	65	60	85	49	48	72	47	47	69	-2.2	-1.0	-3.0
284074	New	60	55	80	-	-	-	52	52	75	-	-	-
284075	Upgrade	65	60	85	56	55	81	46	47	70	-9.3	-8.0	-10.7
284078	Upgrade	65	60	85	50	49	75	45	46	68	-5.0	-3.5	-7.0
284080	Upgrade	65	60	85	57	57	85	49	49	71	-8.5	-8.2	-14.0
284082	Upgrade	65	60	85	55	53	79	47	47	70	-7.9	-6.1	-9.6
284084	Upgrade	65	60	85	58	57	85	48	49	71	-9.9	-8.7	-14.1



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
284086	Upgrade	65	60	85	49	48	72	49	49	71	0.0	1.5	-1.0
284087	Upgrade	65	60	85	52	51	79	49	49	71	-3.5	-1.8	-7.9
284089	Upgrade	65	60	85	51	49	75	46	46	69	-4.7	-3.0	-6.4
284090	Upgrade	65	60	85	57	56	84	47	47	71	-10.3	-8.2	-13.5
284091	Upgrade	65	60	85	57	55	82	48	49	71	-8.4	-6.5	-10.4
284094	Upgrade	65	60	85	55	54	81	47	47	69	-8.7	-7.5	-11.8
284098	Upgrade	65	60	85	53	51	78	45	46	69	-7.4	-5.5	-8.6
284101	Upgrade	65	60	85	51	50	76	47	47	70	-4.1	-2.3	-5.7
284104	New	60	55	80	-	-	-	47	47	70	-	-	-
284105	Upgrade	65	60	85	51	51	79	47	47	70	-4.4	-4.2	-9.2
284106	New	60	55	80	-	-	-	47	47	71	-	-	-
284108	Upgrade	65	60	85	49	48	75	46	46	70	-2.9	-1.4	-4.9
284109	Upgrade	65	60	85	56	55	80	47	47	71	-9.1	-8.0	-8.8
284110	Upgrade	65	60	85	50	49	74	50	50	72	-0.9	0.8	-2.0
284111	New	60	55	80	-	-	-	46	47	70	-	-	-
284114	Upgrade	65	60	85	51	50	76	48	49	72	-3.0	-1.2	-4.6
284117	New	60	55	80	-	-	-	47	47	69	-	-	-
284118	Upgrade	65	60	85	51	50	77	47	48	69	-4.2	-2.3	-7.3
284121	Upgrade	65	60	85	53	51	77	46	47	69	-6.5	-4.6	-7.9
284122	Upgrade	65	60	85	55	54	79	49	49	72	-5.9	-4.3	-6.6
284123	Upgrade	65	60	85	53	51	79	45	46	69	-7.8	-5.9	-10.8
284125	Upgrade	65	60	85	48	47	72	48	48	70	0.0	1.5	-1.7
284128	Upgrade	65	60	85	57	57	82	48	48	71	-9.5	-8.6	-10.7
284129	New	60	55	80	-	-	-	48	48	71	-	-	-
284130	Upgrade	65	60	85	52	51	77	49	49	72	-3.3	-1.6	-5.2
284131	Upgrade	65	60	85	57	55	84	46	47	70	-10.3	-8.3	-13.9
284132	New	60	55	80	-	-	-	47	48	70	-	-	-
284133	Upgrade	65	60	85	48	47	72	49	49	71	1.0	2.5	-1.0
284134	Upgrade	65	60	85	48	47	72	49	50	72	1.6	2.9	0.7
284136	New	60	55	80	-	-	-	49	49	72	-	-	-
284138	Upgrade	65	60	85	53	51	80	46	46	69	-6.8	-4.8	-10.3
284139	Upgrade	65	60	85	48	47	73	46	46	67	-2.4	-0.7	-5.5
284148	New	60	55	80	-	-	-	51	51	74	-	-	-
284152	Upgrade	65	60	85	56	54	81	49	50	72	-6.7	-4.6	-9.1
284153	Upgrade	65	60	85	49	47	74	48	48	70	-0.8	1.0	-4.2
284154	Upgrade	65	60	85	50	49	76	47	48	70	-3.2	-1.4	-5.5
284155	New	60	55	80	-	-	-	55	55	78	-	-	-
284158	Upgrade	65	60	85	54	53	78	49	49	72	-5.3	-3.9	-6.6
284163	Upgrade	65	60	85	51	49	75	48	49	71	-2.2	-0.5	-4.4
284164	Upgrade	65	60	85	48	47	74	49	49	73	0.7	2.1	-1.0
284165	New	60	55	80	-	-	-	52	52	75	-	-	-
284167	Upgrade	65	60	85	49	48	73	48	49	71	-0.8	0.7	-1.9
284168	Upgrade	65	60	85	52	50	78	46	47	70	-5.5	-3.6	-7.8
284170	Upgrade	65	60	85	55	53	81	45	46	69	-9.5	-7.5	-12.2
284177	New	60	55	80	-	-	-	50	50	72	-	-	-
284178	Upgrade	65	60	85	54	54	77	47	48	71	-6.6	-6.2	-5.9
284180	Upgrade	65	60	85	50	49	75	50	50	72	-0.6	1.1	-2.7
284183	Upgrade	65	60	85	48	47	74	48	49	72	0.1	1.9	-1.9
284184	Upgrade	65	60	85	51	49	76	48	48	70	-3.2	-1.3	-6.0
284187	Upgrade	65	60	85	64	64	93	50	50	73	-13.6	-13.3	-20.4
284190	New	60	55	80	-	-	-	50	50	72	-	-	-

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
284192	New	60	55	80	-	-	-	51	51	74	-	-	-
284193	Upgrade	65	60	85	52	50	78	46	46	69	-5.9	-4.0	-9.0
284195	New	60	55	80	-	-	-	50	50	72	-	-	-
284203	Upgrade	65	60	85	54	53	79	48	49	71	-6.0	-4.2	-7.3
284204	Upgrade	65	60	85	58	58	85	49	49	72	-9.3	-8.7	-13.0
284205	Upgrade	65	60	85	48	47	72	50	51	74	2.1	3.6	1.6
284207	Upgrade	65	60	85	55	54	80	48	48	72	-6.8	-5.8	-8.3
284208	New	60	55	80	-	-	-	50	50	72	-	-	-
284209	Upgrade	65	60	85	52	50	77	48	48	70	-3.7	-1.8	-6.2
284215	Upgrade	65	60	85	49	48	76	46	46	69	-3.2	-1.8	-6.3
284219	New	60	55	80	-	-	-	51	51	73	-	-	-
284226	Upgrade	65	60	85	51	49	75	45	45	69	-5.4	-3.7	-6.8
284227	Upgrade	65	60	85	50	48	74	49	49	72	-1.0	0.9	-2.2
284228	Upgrade	65	60	85	52	50	78	46	47	70	-5.2	-3.5	-7.4
284229	New	60	55	80	-	-	-	51	51	73	-	-	-
284235	Upgrade	65	60	85	50	48	77	46	47	70	-3.5	-1.8	-6.8
284241	Upgrade	65	60	85	52	50	77	48	48	70	-4.0	-2.3	-6.5
284243	Upgrade	65	60	85	56	54	82	46	46	70	-9.9	-7.9	-12.7
284246	Upgrade	65	60	85	49	48	75	49	49	71	-0.5	1.3	-3.6
284247	Upgrade	65	60	85	56	55	82	50	51	73	-5.1	-4.6	-9.5
284250	Upgrade	65	60	85	52	50	78	49	49	72	-3.0	-1.3	-5.1
284251	Upgrade	65	60	85	61	62	91	51	51	74	-10.7	-10.6	-17.0
284253	Upgrade	65	60	85	56	56	83	50	50	73	-6.2	-6.1	-9.8
284258	Upgrade	65	60	85	49	47	75	45	46	69	-3.4	-1.6	-6.5
284265	New	60	55	80	-	-	-	51	51	74	-	-	-
284266	Upgrade	65	60	85	55	53	80	49	49	72	-6.2	-4.2	-8.8
284269	Upgrade	65	60	85	45	44	71	47	47	70	1.6	2.8	-1.0
284271	Upgrade	65	60	85	56	55	80	50	50	73	-5.8	-5.1	-7.7
284274	Upgrade	65	60	85	49	48	74	48	48	72	-1.2	0.4	-2.7
284277	Upgrade	65	60	85	50	48	77	46	46	70	-4.3	-2.6	-7.0
284279	Upgrade	65	60	85	47	46	71	46	46	69	-0.8	0.5	-1.9
284281	Upgrade	65	60	85	50	49	74	48	49	71	-1.8	-0.1	-3.2
284283	Upgrade	65	60	85	53	52	77	48	49	73	-4.2	-3.4	-4.1
284284	Upgrade	65	60	85	53	52	76	49	49	73	-3.6	-3.0	-3.0
284292	New	60	55	80	-	-	-	52	52	75	-	-	-
284293	Upgrade	65	60	85	49	48	74	48	49	70	-0.7	0.9	-3.2
284294	New	60	55	80	-	-	-	49	49	71	-	-	-
284295	Upgrade	65	60	85	49	47	75	43	43	66	-5.7	-3.8	-9.3
284296	New	60	55	80	-	-	-	49	49	70	-	-	-
284298	Upgrade	65	60	85	53	51	79	48	48	72	-4.8	-3.1	-6.3
284300	Upgrade	65	60	85	52	50	78	46	46	69	-5.6	-3.6	-9.1
284302	Upgrade	65	60	85	48	46	73	47	47	69	-1.2	0.4	-3.9
284303	Upgrade	65	60	85	52	52	76	50	50	73	-2.6	-1.7	-2.9
284306	New	60	55	80	-	-	-	51	51	73	-	-	-
284311	Upgrade	65	60	85	52	51	77	48	48	72	-4.1	-2.7	-4.7
284315	New	60	55	80	-	-	-	48	49	71	-	-	-
284316	Upgrade	65	60	85	54	54	77	49	50	73	-4.8	-4.1	-4.4
284317	Upgrade	65	60	85	49	47	73	49	49	72	0.0	1.5	-1.4
284319	Upgrade	65	60	85	53	52	79	49	49	72	-4.2	-2.4	-6.7
284323	Upgrade	65	60	85	47	46	71	46	46	70	-0.8	0.6	-1.1
284324	New	60	55	80	-	-	-	49	49	72	-	-	-



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		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
284326	New	60	55	80	-	-	-	50	50	74	-	-	-
284328	Upgrade	65	60	85	50	48	76	46	46	69	-3.7	-1.7	-7.3
284330	Upgrade	65	60	85	54	53	79	48	48	72	-5.9	-4.1	-7.0
284331	Upgrade	65	60	85	48	47	73	47	47	70	-1.1	0.5	-2.3
284332	Upgrade	65	60	85	51	50	73	49	49	73	-1.8	-1.0	-0.7
284333	Upgrade	65	60	85	52	51	76	48	49	72	-3.4	-2.0	-4.1
284335	Upgrade	65	60	85	49	48	73	47	48	70	-1.6	0.2	-3.4
284336	New	60	55	80	-	-	-	48	48	71	-	-	-
284337	Upgrade	65	60	85	53	51	79	49	49	73	-3.8	-2.0	-5.5
284338	Upgrade	65	60	85	52	52	75	50	50	73	-2.1	-1.5	-1.6
284342	Upgrade	65	60	85	49	48	73	48	48	71	-1.4	-0.2	-1.3
284346	Upgrade	65	60	85	46	44	71	44	44	67	-1.8	-0.2	-4.0
284348	Upgrade	65	60	85	51	49	76	48	48	71	-2.8	-1.0	-4.3
284349	New	60	55	80	-	-	-	48	49	70	-	-	-
284352	Upgrade	65	60	85	50	49	77	45	46	68	-5.0	-3.1	-8.1
284356	Upgrade	65	60	85	50	48	77	47	47	70	-3.4	-1.6	-6.2
284362	Upgrade	65	60	85	48	47	72	48	48	71	0.1	1.3	-0.8
284365	New	60	55	80	-	-	-	51	51	75	-	-	-
284366	New	60	55	80	-	-	-	49	50	72	-	-	-
284368	New	60	55	80	-	-	-	53	53	76	-	-	-
284369	Upgrade	65	60	85	53	52	78	49	49	72	-4.4	-2.6	-5.9
284370	Upgrade	65	60	85	45	44	70	48	49	71	3.2	4.1	1.3
284371	Upgrade	65	60	85	49	48	73	48	49	72	-0.6	0.9	-1.4
284380	Upgrade	65	60	85	53	53	77	50	50	74	-3.2	-2.3	-3.1
284386	New	60	55	80	-	-	-	51	51	74	-	-	-
284387	Upgrade	65	60	85	46	45	70	49	49	71	3.0	4.2	1.0
284391	Upgrade	65	60	85	52	50	78	50	50	74	-1.6	0.2	-3.8
284392	Upgrade	65	60	85	45	44	69	50	50	73	5.1	6.1	3.7
284393	New	60	55	80	-	-	-	52	53	75	-	-	-
284394	Upgrade	65	60	85	50	50	73	49	49	72	-1.4	-0.7	-0.9
284396	Upgrade	65	60	85	44	43	68	48	48	71	3.8	5.1	3.3
284398	Upgrade	65	60	85	50	48	76	50	50	73	0.0	1.8	-2.3
284399	Upgrade	65	60	85	47	46	73	50	51	73	3.1	4.7	-0.4
284401	New	60	55	80	-	-	-	50	50	72	-	-	-
284404	Upgrade	65	60	85	48	48	71	49	49	72	1.2	1.4	1.0
284407	New	60	55	80	-	-	-	50	50	73	-	-	-
284412	New	60	55	80	-	-	-	50	50	73	-	-	-
284419	Upgrade	65	60	85	45	44	71	47	48	71	2.7	4.0	0.0
284420	New	60	55	80	-	-	-	50	51	73	-	-	-
284421	Upgrade	65	60	85	48	47	73	50	50	73	1.3	3.0	0.2
284425	Upgrade	65	60	85	43	43	66	46	47	70	3.0	3.6	4.0
284426	New	60	55	80	-	-	-	51	51	74	-	-	-
284430	Upgrade	65	60	85	46	45	71	50	50	72	3.3	4.6	1.3
284431	Upgrade	65	60	85	52	51	75	46	47	70	-5.7	-4.5	-4.8
284436	New	60	55	80	-	-	-	51	51	74	-	-	-
284438	New	60	55	80	-	-	-	50	50	72	-	-	-
284440	Upgrade	65	60	85	48	47	73	48	48	72	0.1	1.2	-0.9
284444	New	60	55	80	-	-	-	49	50	72	-	-	-
284446	Upgrade	65	60	85	49	48	74	51	51	75	1.7	3.1	0.5
284450	Upgrade	65	60	85	47	46	71	48	49	72	1.7	3.0	0.4
284453	New	60	55	80	-	-	-	50	50	73	-	-	-

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		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax
284454	Upgrade	65	60	85	48	47	73	49	50	72	1.0	2.8	-1.0
284456	Upgrade	65	60	85	46	46	70	48	49	72	2.0	3.0	2.5
284462	New	60	55	80	-	-	-	49	50	72	-	-	-
284466	Upgrade	65	60	85	49	48	74	49	49	72	-0.3	1.5	-1.4
284475	Upgrade	65	60	85	46	45	70	49	50	72	3.3	4.6	2.6
284486	Upgrade	65	60	85	49	48	73	50	50	73	1.0	2.6	0.0
284488	New	60	55	80	-	-	-	50	51	72	-	-	-
284494	Upgrade	65	60	85	49	49	71	49	50	72	0.5	1.0	1.4
284496	New	60	55	80	-	-	-	51	52	73	-	-	-
284499	New	60	55	80	-	-	-	52	52	75	-	-	-
284502	Upgrade	65	60	85	49	48	71	50	50	73	1.0	1.5	2.1
284509	New	60	55	80	-	-	-	53	53	77	-	-	-
284511	Upgrade	65	60	85	52	51	76	48	48	71	-4.0	-3.1	-4.5
284512	Upgrade	65	60	85	55	53	81	52	52	76	-2.7	-0.8	-4.9
284519	Upgrade	65	60	85	47	46	72	52	52	75	5.1	6.3	3.8
284524	New	60	55	80	-	-	-	55	55	78	-	-	-
284528	Upgrade	65	60	85	47	46	70	50	50	73	2.9	4.0	2.8
284532	New	60	55	80	-	-	-	55	55	79	-	-	-
284542	New	60	55	80	-	-	-	55	55	79	-	-	-
284545	Upgrade	65	60	85	52	50	75	51	51	75	-0.5	1.0	-0.3
284548	New	60	55	80	-	-	-	54	54	77	-	-	-
284549	Upgrade	65	60	85	48	47	73	50	50	73	2.1	3.5	-0.4
284553	New	60	55	80	-	-	-	54	54	77	-	-	-
284556	Upgrade	65	60	85	49	48	74	49	49	73	-0.5	1.2	-1.3
284557	New	60	55	80	-	-	-	51	51	74	-	-	-
284568	New	60	55	80	-	-	-	54	55	77	-	-	-
284569	New	60	55	80	-	-	-	53	54	76	-	-	-
284571	Upgrade	65	60	85	55	55	79	50	51	74	-4.9	-4.5	-4.9
284581	New	60	55	80	-	-	-	54	54	77	-	-	-
284582	New	60	55	80	-	-	-	52	52	76	-	-	-
284595	Upgrade	65	60	85	49	48	70	50	50	74	1.2	1.7	3.6
284596	New	60	55	80	-	-	-	54	54	77	-	-	-
284603	New	60	55	80	-	-	-	54	54	77	-	-	-
284605	Upgrade	65	60	85	48	47	73	51	51	75	3.2	4.8	2.1
284607	New	60	55	80	-	-	-	53	53	77	-	-	-
284613	New	60	55	80	-	-	-	55	55	78	-	-	-
284618	New	60	55	80	-	-	-	54	54	78	-	-	-
284621	New	60	55	80	-	-	-	54	54	77	-	-	-
284627	New	60	55	80	-	-	-	55	55	79	-	-	-
284633	Upgrade	65	60	85	50	48	75	52	53	76	2.8	4.4	1.4
284634	Upgrade	65	60	85	45	44	68	51	52	75	6.8	7.9	6.9
284650	Upgrade	65	60	85	55	54	77	50	50	73	-4.9	-3.9	-4.7
284651	New	60	55	80	-	-	-	53	53	76	-	-	-
284658	New	60	55	80	-	-	-	53	53	76	-	-	-
284665	New	60	55	80	-	-	-	60	61	84	-	-	-
284683	New	60	55	80	-	-	-	52	53	75	-	-	-
284709	Upgrade	65	60	85	54	53	78	50	51	73	-3.5	-2.0	-5.3
284713	Upgrade	65	60	85	55	54	77	48	48	70	-6.7	-5.9	-6.9
284725	Upgrade	65	60	85	51	50	75	52	52	75	0.9	2.5	0.7
284765	Upgrade	65	60	85	54	54	77	50	50	74	-3.6	-3.3	-3.2
284772	New	60	55	80	-	-	-	62	63	86	-	-	-



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax
284810	Upgrade	65	60	85	52	51	76	50	51	73	-1.4	0.0	-2.3
284813	Upgrade	65	60	85	51	50	76	52	52	76	1.0	2.7	-0.3
284820	Upgrade	65	60	85	55	55	78	48	49	72	-6.6	-6.2	-5.5
284825	New	60	55	80	-	-	-	54	54	77	-	-	-
284834	Upgrade	65	60	85	48	48	69	49	49	73	1.3	1.6	3.7
284843	Upgrade	65	60	85	52	51	74	48	48	70	-3.5	-2.2	-4.3
284868	Upgrade	65	60	85	12	12	38	34	34	53	21.8	21.6	15.3
284878	Upgrade	65	60	85	55	55	78	47	47	71	-8.0	-7.3	-6.4
284889	Upgrade	65	60	85	53	52	77	48	48	70	-5.2	-4.3	-7.6
284958	Upgrade	65	60	85	50	49	74	48	49	72	-1.7	-0.3	-1.8
284960	Upgrade	65	60	85	50	49	71	51	52	75	1.8	2.1	3.5
284964	Upgrade	65	60	85	51	50	74	47	48	70	-3.3	-1.8	-4.3
284971	Upgrade	65	60	85	52	50	76	49	49	72	-2.7	-1.3	-3.8
284982	Upgrade	65	60	85	51	51	75	48	49	72	-3.0	-2.0	-3.4
284987	Upgrade	65	60	85	53	52	76	48	48	71	-4.7	-3.9	-5.8
284996	Upgrade	65	60	85	53	52	77	48	48	72	-4.7	-3.7	-5.3
284997	Upgrade	65	60	85	41	41	61	43	43	67	1.5	1.6	5.7
284998	Upgrade	65	60	85	54	54	76	50	51	73	-4.1	-3.4	-3.1
285052	Upgrade	65	60	85	49	48	73	51	51	75	1.6	2.8	2.0
285058	Upgrade	65	60	85	51	50	74	48	48	72	-2.7	-1.4	-2.0
285072	Upgrade	65	60	85	53	52	79	48	48	72	-5.0	-3.7	-7.6
285078	Upgrade	65	60	85	54	53	77	49	49	73	-4.9	-4.2	-3.6
285095	Upgrade	65	60	85	49	48	72	50	51	74	1.7	2.8	1.7
285110	Upgrade	65	60	85	49	48	74	48	49	72	-0.6	0.9	-2.2
285118	Upgrade	65	60	85	53	53	75	49	49	73	-4.5	-4.0	-2.6
285137	Upgrade	65	60	85	49	47	72	50	50	74	1.6	3.0	1.4
285144	Upgrade	65	60	85	48	47	73	48	48	72	0.2	1.4	-1.0
285154	Upgrade	65	60	85	53	53	75	49	49	73	-3.9	-3.5	-2.3
285174	Upgrade	65	60	85	49	48	73	50	50	73	0.8	2.0	0.5
285190	Upgrade	65	60	85	48	47	72	49	49	73	1.1	2.2	0.6
285208	Upgrade	65	60	85	53	53	75	49	49	73	-4.7	-4.1	-2.5
285209	New	60	55	80	-	-	-	51	51	74	-	-	-
285232	Upgrade	65	60	85	48	47	73	48	48	70	-0.8	0.5	-3.0
285238	Upgrade	65	60	85	52	52	75	49	49	73	-3.4	-3.2	-2.1
285267	New	60	55	80	-	-	-	53	53	77	-	-	-
285276	New	60	55	80	-	-	-	53	53	76	-	-	-
285284	Upgrade	65	60	85	52	52	75	51	51	75	-1.4	-1.0	0.0
285292	New	60	55	80	-	-	-	54	54	77	-	-	-
285293	Upgrade	65	60	85	42	42	63	46	46	70	3.3	3.3	7.1
285305	Upgrade	65	60	85	42	42	63	46	46	70	3.2	3.3	6.9
285319	New	60	55	80	-	-	-	53	54	76	-	-	-
285351	New	60	55	80	-	-	-	52	52	76	-	-	-
285382	New	60	55	80	-	-	-	52	52	76	-	-	-
285389	Upgrade	65	60	85	41	41	63	44	44	68	2.5	2.7	4.7
285415	New	60	55	80	-	-	-	52	52	76	-	-	-
285425	New	60	55	80	-	-	-	59	60	83	-	-	-
285426	Upgrade	65	60	85	43	43	64	47	48	71	4.5	4.6	7.3
285427	Upgrade	65	60	85	42	42	63	45	46	69	3.8	4.0	6.2
285463	New	60	55	80	-	-	-	53	53	77	-	-	-
285492	Upgrade	65	60	85	43	44	65	47	47	71	3.5	3.6	6.2
285505	New	60	55	80	-	-	-	58	58	81	-	-	-

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
285513	New	60	55	80	-	-	-	55	56	79	-	-	-
285535	New	60	55	80	-	-	-	54	54	77	-	-	-
285538	Upgrade	65	60	85	43	43	64	47	47	71	3.7	3.7	7.3
285577	New	60	55	80	-	-	-	53	53	77	-	-	-
285615	New	60	55	80	-	-	-	53	53	77	-	-	-
285616	New	60	55	80	-	-	-	53	53	76	-	-	-
285617	Upgrade	65	60	85	44	44	64	48	48	71	4.1	4.2	7.7
285647	New	60	55	80	-	-	-	54	54	78	-	-	-
285670	New	60	55	80	-	-	-	55	55	78	-	-	-
285678	New	60	55	80	-	-	-	54	54	78	-	-	-
285719	New	60	55	80	-	-	-	54	54	78	-	-	-
285740	New	60	55	80	-	-	-	54	54	78	-	-	-
285767	New	60	55	80	-	-	-	54	54	77	-	-	-
285769	New	60	55	80	-	-	-	56	57	80	-	-	-
285796	New	60	55	80	-	-	-	59	59	83	-	-	-
285797	New	60	55	80	-	-	-	51	52	75	-	-	-
285798	New	60	55	80	-	-	-	58	59	82	-	-	-
285802	New	60	55	80	-	-	-	59	60	84	-	-	-
285808	New	60	55	80	-	-	-	52	52	75	-	-	-
285812	New	60	55	80	-	-	-	53	54	77	-	-	-
285813	New	60	55	80	-	-	-	57	57	82	-	-	-
285827	New	60	55	80	-	-	-	57	58	81	-	-	-
285836	New	60	55	80	-	-	-	58	58	82	-	-	-
285848	New	60	55	80	-	-	-	55	56	80	-	-	-
285850	New	60	55	80	-	-	-	58	59	82	-	-	-
285873	New	60	55	80	-	-	-	59	59	84	-	-	-
285875	New	-	-	-	-	-	-	57	-	-	-	-	-
285876	New	60	55	80	-	-	-	54	54	78	-	-	-
285877	New	60	55	80	-	-	-	53	54	77	-	-	-
285890	New	60	55	80	-	-	-	52	52	75	-	-	-
285902	New	60	55	80	-	-	-	60	61	84	-	-	-
285903	New	60	55	80	-	-	-	57	57	81	-	-	-
285909	Upgrade	65	60	85	44	44	65	49	49	72	4.7	4.6	7.4
285918	New	60	55	80	-	-	-	59	59	83	-	-	-
285921	New	60	55	80	-	-	-	54	54	78	-	-	-
285946	New	60	55	80	-	-	-	63	63	87	-	-	-
285947	New	60	55	80	-	-	-	54	55	78	-	-	-
285960	Upgrade	65	60	85	44	45	67	49	49	73	4.9	4.9	6.3
285962	New	60	55	80	-	-	-	59	59	83	-	-	-
285964	New	60	55	80	-	-	-	62	62	86	-	-	-
285978	Upgrade	65	60	85	48	49	71	52	52	75	3.8	3.8	4.2
285979	New	60	55	80	-	-	-	54	55	78	-	-	-
285988	New	60	55	80	-	-	-	59	60	84	-	-	-
285991	New	60	55	80	-	-	-	54	55	78	-	-	-
286034	New	60	55	80	-	-	-	55	56	79	-	-	-
286035	New	60	55	80	-	-	-	59	60	84	-	-	-
286048	New	60	55	80	-	-	-	60	61	84	-	-	-
286055	New	60	55	80	-	-	-	55	55	79	-	-	-
286063	New	60	55	80	-	-	-	60	60	84	-	-	-
286080	New	60	55	80	-	-	-	60	61	84	-	-	-
286120	New	60	55	80	-	-	-	57	58	81	-	-	-



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
286124	New	60	55	80	-	-	-	64	64	88	-	-	-
286131	New	60	55	80	-	-	-	56	57	80	-	-	-
286147	New	60	55	80	-	-	-	58	58	82	-	-	-
286156	New	60	55	80	-	-	-	64	64	88	-	-	-
286173	Upgrade	65	60	85	31	31	56	36	36	60	4.4	4.4	3.8
286204	Upgrade	65	60	85	35	35	59	39	39	63	3.6	3.5	3.5
286215	New	60	55	80	-	-	-	58	58	82	-	-	-
286222	New	60	55	80	-	-	-	67	67	92	-	-	-
286232	Upgrade	65	60	85	41	41	64	47	47	71	6.0	5.9	6.2
286268	Upgrade	65	60	85	37	37	60	41	41	65	3.9	3.7	5.0
286270	Upgrade	65	60	85	43	43	67	49	49	73	6.2	6.1	6.3
286288	Upgrade	65	60	85	37	37	60	41	41	65	3.9	3.8	4.5
286293	Upgrade	65	60	85	43	43	67	49	50	73	6.3	6.2	6.0
286313	Upgrade	65	60	85	40	40	64	46	46	70	6.0	5.9	6.1
286327	Upgrade	65	60	85	32	33	58	36	36	60	3.4	3.4	2.2
286336	New	60	55	80	-	-	-	62	63	87	-	-	-
286349	New	60	55	80	-	-	-	64	64	88	-	-	-
286363	New	60	55	80	-	-	-	66	66	90	-	-	-
286385	Upgrade	65	60	85	36	36	60	40	41	64	4.5	4.4	4.8
286405	Upgrade	65	60	85	46	46	67	51	51	74	5.0	5.0	6.8
286481	Upgrade	65	60	85	40	41	65	46	46	70	5.7	5.6	5.5
286495	Upgrade	65	60	85	40	40	61	45	46	69	5.6	5.5	7.9
286525	Upgrade	65	60	85	39	40	63	45	45	69	5.2	5.1	5.6
286549	Upgrade	65	60	85	40	40	64	45	45	69	5.1	4.9	5.6
286558	Upgrade	65	60	85	39	39	61	44	44	68	5.0	4.9	7.0
286574	Upgrade	65	60	85	38	38	62	43	43	67	5.5	5.3	5.3
286577	Upgrade	65	60	85	40	40	62	45	45	69	5.0	5.0	6.6
286594	Upgrade	65	60	85	41	41	64	46	46	70	5.6	5.4	5.8
286610	Upgrade	65	60	85	38	38	62	44	44	68	6.1	6.1	6.0
286625	Upgrade	65	60	85	40	41	64	46	46	70	5.4	5.3	5.9
286683	Upgrade	65	60	85	45	45	69	52	52	75	6.7	6.6	6.8
286699	Upgrade	65	60	85	40	41	63	46	46	70	5.7	5.5	6.7
286760	Upgrade	65	60	85	42	43	67	48	48	72	5.8	5.7	5.2
286768	Upgrade	65	60	85	41	41	63	46	46	70	5.4	5.1	6.2
286783	Upgrade	65	60	85	41	41	64	46	46	70	5.6	5.4	5.9
286786	Upgrade	65	60	85	43	43	66	49	49	72	5.7	5.5	5.6
286788	Upgrade	65	60	85	42	43	66	48	49	72	6.1	5.9	6.0
286792	Upgrade	65	60	85	42	42	64	47	48	71	5.9	5.7	6.8
286814	Upgrade	65	60	85	43	43	66	49	49	72	6.0	5.8	5.8
286827	Upgrade	65	60	85	43	43	65	48	49	72	5.8	5.8	7.6
286836	Upgrade	65	60	85	41	42	65	47	48	71	6.0	5.9	6.6
286859	Upgrade	65	60	85	43	43	66	49	49	72	6.1	5.9	6.7
286864	New	60	55	80	-	-	-	68	68	92	-	-	-
286895	Upgrade	65	60	85	42	43	65	49	49	72	6.1	6.0	6.9
286928	New	60	55	80	-	-	-	57	57	81	-	-	-
286949	Upgrade	65	60	85	42	42	66	48	48	72	6.0	5.7	5.3
286959	Upgrade	65	60	85	42	42	66	48	49	72	6.2	6.1	6.2
287013	New	60	55	80	-	-	-	69	70	94	-	-	-
287076	New	60	55	80	-	-	-	70	70	94	-	-	-
287099	Upgrade	65	60	85	46	47	71	52	52	76	5.3	5.2	5.2
287107	Upgrade	65	60	85	42	42	65	47	48	71	5.6	5.4	5.8

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
287126	Upgrade	65	60	85	45	45	69	51	51	75	6.0	5.8	6.0
287135	Upgrade	65	60	85	42	42	65	47	48	71	5.9	5.8	6.6
287138	Upgrade	65	60	85	51	52	75	60	60	84	8.5	8.5	9.0
287159	Upgrade	65	60	85	43	44	66	49	49	73	5.8	5.7	6.8
287201	Upgrade	65	60	85	46	46	70	52	52	75	5.7	5.6	4.8
287217	New	60	55	80	-	-	-	69	69	94	-	-	-
287230	Upgrade	65	60	85	43	43	66	48	48	72	5.3	5.2	6.0
287234	Upgrade	65	60	85	39	39	64	45	45	69	6.2	6.1	5.2
287243	Upgrade	65	60	85	43	44	67	49	49	73	5.9	5.7	6.0
287249	Upgrade	65	60	85	49	49	73	54	55	78	5.3	5.2	5.8
287257	Upgrade	65	60	85	41	41	65	47	47	71	6.0	5.8	5.6
287267	Upgrade	65	60	85	44	44	68	50	50	74	6.2	6.0	6.4
287275	Upgrade	65	60	85	43	43	67	49	49	73	6.3	6.1	5.9
287311	Upgrade	65	60	85	41	41	65	47	47	71	6.0	5.8	6.0
287353	Upgrade	65	60	85	44	44	67	50	50	74	6.3	6.1	6.6
287358	Upgrade	65	60	85	44	44	67	50	50	74	6.0	5.9	6.5
287386	Upgrade	65	60	85	42	42	66	48	48	72	6.0	5.8	5.9
287394	Upgrade	65	60	85	45	45	69	51	51	75	6.3	6.0	5.9
287402	Upgrade	65	60	85	44	45	69	50	51	74	6.2	6.1	5.6
287409	Upgrade	65	60	85	44	45	68	51	51	74	6.4	6.3	6.4
287416	Upgrade	65	60	85	42	42	66	48	48	72	5.9	5.7	5.5
287432	Upgrade	65	60	85	40	41	64	47	47	70	6.2	6.1	6.1
287445	Upgrade	65	60	85	43	43	66	49	49	73	6.2	6.1	6.5
287450	Upgrade	65	60	85	43	43	66	49	50	73	6.5	6.4	7.3
287477	Upgrade	65	60	85	41	42	65	47	48	71	6.1	6.0	5.9
287483	Upgrade	65	60	85	44	44	67	50	50	74	6.2	6.0	6.4
287518	Upgrade	65	60	85	48	49	71	54	54	77	6.1	5.9	6.2
287534	New	60	55	80	-	-	-	58	59	83	-	-	-
287541	Upgrade	65	60	85	45	46	69	51	52	75	6.2	6.0	6.6
287545	Upgrade	65	60	85	43	43	68	49	49	73	6.3	6.1	5.3
287550	Upgrade	65	60	85	45	45	69	51	51	75	6.2	6.1	6.2
287552	Upgrade	65	60	85	42	43	67	49	49	73	6.3	6.0	6.0
287557	Upgrade	65	60	85	41	41	65	47	47	71	6.4	6.2	6.2
287564	Upgrade	65	60	85	43	43	67	49	49	73	6.2	6.0	5.7
287571	New	60	55	80	-	-	-	55	56	80	-	-	-
287576	Upgrade	65	60	85	42	42	66	48	49	72	6.6	6.5	6.0
287579	Upgrade	65	60	85	43	43	67	50	50	73	6.5	6.4	6.1
287583	Upgrade	65	60	85	47	47	71	53	53	77	5.7	5.5	6.0
287585	Upgrade	65	60	85	48	48	71	54	54	77	5.7	5.6	6.2
287614	New	60	55	80	-	-	-	55	55	79	-	-	-
287627	New	60	55	80	-	-	-	57	57	81	-	-	-
287631	Upgrade	65	60	85	42	42	67	48	48	72	6.1	6.1	5.2
287637	Upgrade	65	60	85	54	54	78	57	58	81	3.2	3.3	3.4
287639	Upgrade	65	60	85	42	42	67	48	48	72	6.4	6.3	5.6
287650	Upgrade	65	60	85	44	44	68	50	51	74	6.4	6.3	5.8
287654	Upgrade	65	60	85	40	41	64	47	47	70	6.4	6.2	6.2
287668	New	60	55	80	-	-	-	54	54	78	-	-	-
287677	Upgrade	65	60	85	41	41	65	48	48	71	6.7	6.6	6.8
287678	New	60	55	80	-	-	-	55	55	80	-	-	-
287683	Upgrade	65	60	85	44	45	69	51	51	75	6.3	6.2	6.0
287686	Upgrade	65	60	85	43	44	67	49	50	73	6.1	6.0	5.8



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax
287688	Upgrade	65	60	85	40	40	64	45	46	69	5.9	5.8	5.6
287709	Upgrade	65	60	85	39	39	62	44	45	68	5.7	5.6	5.8
287716	Upgrade	65	60	85	46	46	70	52	52	76	6.3	6.2	6.0
287725	New	60	55	80	-	-	-	53	53	77	-	-	-
287732	New	60	55	80	-	-	-	55	55	79	-	-	-
287780	New	60	55	80	-	-	-	56	56	80	-	-	-
287783	New	60	55	80	-	-	-	54	54	77	-	-	-
287807	Upgrade	65	60	85	41	42	65	48	48	72	6.4	6.3	6.4
287818	New	60	55	80	-	-	-	56	56	80	-	-	-
287823	New	60	55	80	-	-	-	54	54	78	-	-	-
287850	New	60	55	80	-	-	-	54	54	78	-	-	-
287853	New	60	55	80	-	-	-	54	55	78	-	-	-
287856	New	60	55	80	-	-	-	57	57	81	-	-	-
287863	New	60	55	80	-	-	-	58	58	82	-	-	-
287887	New	60	55	80	-	-	-	57	57	81	-	-	-
287895	New	60	55	80	-	-	-	58	58	82	-	-	-
287896	New	60	55	80	-	-	-	53	54	77	-	-	-
287905	New	60	55	80	-	-	-	56	56	80	-	-	-
287906	New	60	55	80	-	-	-	57	57	81	-	-	-
287910	New	60	55	80	-	-	-	58	58	82	-	-	-
287914	New	60	55	80	-	-	-	59	59	83	-	-	-
287919	New	60	55	80	-	-	-	56	57	81	-	-	-
287927	New	60	55	80	-	-	-	54	54	78	-	-	-
287932	New	60	55	80	-	-	-	59	59	82	-	-	-
287933	New	60	55	80	-	-	-	57	57	81	-	-	-
287935	New	60	55	80	-	-	-	56	57	81	-	-	-
287946	New	60	55	80	-	-	-	57	57	81	-	-	-
287952	New	60	55	80	-	-	-	57	57	81	-	-	-
287969	New	60	55	80	-	-	-	56	56	80	-	-	-
287972	New	60	55	80	-	-	-	56	57	81	-	-	-
287979	New	60	55	80	-	-	-	57	57	81	-	-	-
287980	New	60	55	80	-	-	-	53	53	77	-	-	-
287986	New	60	55	80	-	-	-	53	53	76	-	-	-
287991	New	60	55	80	-	-	-	56	56	80	-	-	-
287999	New	60	55	80	-	-	-	56	57	81	-	-	-
288001	New	60	55	80	-	-	-	57	57	81	-	-	-
288025	New	60	55	80	-	-	-	53	53	76	-	-	-
288027	New	60	55	80	-	-	-	54	54	78	-	-	-
288040	New	60	55	80	-	-	-	52	52	76	-	-	-
288041	New	60	55	80	-	-	-	58	59	83	-	-	-
288043	New	60	55	80	-	-	-	53	54	77	-	-	-
288048	Upgrade	65	60	85	38	38	61	44	44	68	5.7	5.6	6.3
288050	New	60	55	80	-	-	-	53	53	77	-	-	-
288055	New	60	55	80	-	-	-	54	55	78	-	-	-
288056	Upgrade	65	60	85	37	38	61	44	44	68	6.4	6.3	6.6
288070	New	60	55	80	-	-	-	54	55	78	-	-	-
288071	Upgrade	65	60	85	39	39	61	45	46	69	6.6	6.5	7.6
288073	New	60	55	80	-	-	-	52	52	75	-	-	-
288074	New	60	55	80	-	-	-	57	57	81	-	-	-
288076	New	60	55	80	-	-	-	54	54	78	-	-	-
288078	New	60	55	80	-	-	-	54	54	78	-	-	-

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
288082	New	60	55	80	-	-	-	53	53	77	-	-	-
288083	New	60	55	80	-	-	-	52	52	76	-	-	-
288086	New	60	55	80	-	-	-	52	52	76	-	-	-
288105	New	60	55	80	-	-	-	58	58	82	-	-	-
288106	New	60	55	80	-	-	-	53	53	76	-	-	-
288107	Upgrade	65	60	85	0	0	0	44	45	69	44.4	44.7	68.7
288112	Upgrade	65	60	85	40	40	63	46	46	69	5.8	5.6	6.0
288120	New	60	55	80	-	-	-	53	53	77	-	-	-
288124	New	60	55	80	-	-	-	53	54	77	-	-	-
288125	New	60	55	80	-	-	-	53	54	77	-	-	-
288132	New	60	55	80	-	-	-	50	50	73	-	-	-
288138	Upgrade	65	60	85	41	41	64	47	47	70	5.9	5.7	6.3
288143	New	60	55	80	-	-	-	52	52	76	-	-	-
288144	New	60	55	80	-	-	-	54	54	78	-	-	-
288146	New	60	55	80	-	-	-	50	50	74	-	-	-
288150	New	60	55	80	-	-	-	53	53	77	-	-	-
288152	New	60	55	80	-	-	-	51	52	75	-	-	-
288153	New	60	55	80	-	-	-	54	54	78	-	-	-
288156	Upgrade	65	60	85	39	39	62	45	45	68	6.1	6.0	6.5
288164	New	60	55	80	-	-	-	54	55	78	-	-	-
288172	New	60	55	80	-	-	-	50	50	73	-	-	-
288173	New	60	55	80	-	-	-	54	54	77	-	-	-
288175	New	60	55	80	-	-	-	51	51	75	-	-	-
288181	New	60	55	80	-	-	-	57	57	81	-	-	-
288189	Upgrade	65	60	85	39	40	62	45	45	68	5.8	5.6	6.2
288192	New	60	55	80	-	-	-	52	53	76	-	-	-
288193	New	60	55	80	-	-	-	49	49	72	-	-	-
288198	Upgrade	65	60	85	39	40	62	45	45	69	5.9	5.9	6.2
288199	New	60	55	80	-	-	-	52	53	76	-	-	-
288204	Upgrade	65	60	85	49	49	71	63	63	87	14.1	14.1	16.3
288207	New	60	55	80	-	-	-	49	49	72	-	-	-
288210	New	60	55	80	-	-	-	53	53	77	-	-	-
288211	New	60	55	80	-	-	-	51	51	75	-	-	-
288216	New	60	55	80	-	-	-	49	50	73	-	-	-
288222	New	60	55	80	-	-	-	49	49	73	-	-	-
288224	Upgrade	65	60	85	45	46	70	51	51	75	6.0	5.8	5.3
288227	New	60	55	80	-	-	-	52	52	76	-	-	-
288229	Upgrade	65	60	85	41	41	65	47	47	71	6.1	6.0	5.7
288230	New	60	55	80	-	-	-	49	49	73	-	-	-
288231	New	60	55	80	-	-	-	52	53	76	-	-	-
288247	New	60	55	80	-	-	-	56	56	80	-	-	-
288249	New	60	55	80	-	-	-	53	53	76	-	-	-
288251	New	60	55	80	-	-	-	52	52	76	-	-	-
288253	New	60	55	80	-	-	-	48	48	72	-	-	-
288254	New	60	55	80	-	-	-	52	52	76	-	-	-
288258	New	60	55	80	-	-	-	52	52	76	-	-	-
288264	New	60	55	80	-	-	-	51	51	74	-	-	-
288265	New	60	55	80	-	-	-	53	53	77	-	-	-
288268	New	60	55	80	-	-	-	51	51	74	-	-	-
288271	Upgrade	65	60	85	39	39	60	53	53	77	14.0	14.0	16.4
288275	New	60	55	80	-	-	-	52	52	75	-	-	-



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
288281	Upgrade	65	60	85	43	43	67	49	49	73	6.2	6.1	6.1
288296	New	60	55	80	-	-	-	52	52	76	-	-	-
288297	Upgrade	65	60	85	46	46	70	52	53	76	6.3	6.2	6.0
288300	Upgrade	65	60	85	43	44	67	49	50	73	6.0	5.8	6.5
288305	Upgrade	65	60	85	42	42	65	48	48	71	6.2	6.1	6.7
288312	New	60	55	80	-	-	-	52	53	76	-	-	-
288327	New	60	55	80	-	-	-	52	53	76	-	-	-
288329	New	60	55	80	-	-	-	51	51	74	-	-	-
288348	New	60	55	80	-	-	-	51	51	75	-	-	-
288349	New	60	55	80	-	-	-	52	52	76	-	-	-
288362	New	60	55	80	-	-	-	51	51	74	-	-	-
288364	New	60	55	80	-	-	-	51	51	74	-	-	-
288369	Upgrade	65	60	85	38	39	61	52	53	76	14.1	14.1	15.7
288372	New	60	55	80	-	-	-	57	57	81	-	-	-
288379	Upgrade	65	60	85	50	50	73	55	56	79	5.8	5.8	5.6
288384	New	60	55	80	-	-	-	51	51	74	-	-	-
288389	Upgrade	65	60	85	46	47	71	52	52	76	6.0	5.9	5.3
288390	New	60	55	80	-	-	-	52	52	75	-	-	-
288392	New	60	55	80	-	-	-	52	52	75	-	-	-
288394	New	60	55	80	-	-	-	53	53	76	-	-	-
288405	New	60	55	80	-	-	-	51	51	74	-	-	-
288408	New	60	55	80	-	-	-	52	52	75	-	-	-
288414	New	60	55	80	-	-	-	53	53	77	-	-	-
288431	New	60	55	80	-	-	-	58	58	82	-	-	-
288434	Upgrade	65	60	85	40	41	63	46	47	69	6.2	6.2	6.4
288439	New	60	55	80	-	-	-	53	53	76	-	-	-
288442	Upgrade	65	60	85	38	38	60	51	52	75	13.7	13.5	15.5
288443	New	60	55	80	-	-	-	53	53	76	-	-	-
288450	New	60	55	80	-	-	-	53	53	76	-	-	-
288467	Upgrade	65	60	85	43	43	67	49	49	72	6.1	6.0	5.4
288473	New	60	55	80	-	-	-	52	53	76	-	-	-
288475	Upgrade	65	60	85	46	46	70	52	52	75	5.9	5.7	5.5
288478	New	60	55	80	-	-	-	54	54	78	-	-	-
288489	Upgrade	65	60	85	46	46	71	52	52	76	5.9	5.7	5.3
288490	New	60	55	80	-	-	-	51	51	75	-	-	-
288497	Upgrade	65	60	85	47	47	71	53	53	77	6.1	5.9	5.7
288513	Upgrade	65	60	85	46	46	69	52	52	75	6.1	6.0	6.0
288518	New	60	55	80	-	-	-	53	53	77	-	-	-
288523	New	60	55	80	-	-	-	53	53	77	-	-	-
288539	Upgrade	65	60	85	43	43	67	49	49	73	6.3	6.3	6.1
288543	New	60	55	80	-	-	-	53	53	77	-	-	-
288551	Upgrade	65	60	85	45	45	69	51	51	74	6.0	5.8	5.6
288601	Upgrade	65	60	85	38	38	60	49	50	74	11.8	11.7	13.2
288645	Upgrade	65	60	85	45	46	69	51	52	75	6.1	5.9	6.1
288648	Upgrade	65	60	85	36	36	60	50	50	74	14.2	14.2	14.1
288665	Upgrade	65	60	85	47	47	71	53	53	76	6.0	5.9	5.7
288784	Upgrade	65	60	85	46	46	70	52	52	76	6.2	6.1	5.7
288871	Upgrade	65	60	85	44	45	68	51	51	74	6.2	6.2	5.7
288895	Upgrade	65	60	85	46	46	69	52	52	75	6.0	5.8	6.4
288905	Upgrade	65	60	85	44	44	68	50	50	74	6.1	5.9	5.7
288910	Upgrade	65	60	85	45	45	70	51	51	75	6.0	6.0	4.9

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmaz	LAeq,15hr	LAeq,9hr	LAmaz	LAeq,15hr	LAeq,9hr	LAmaz
288917	Upgrade	65	60	85	45	45	69	51	51	75	6.2	6.1	6.3
289007	Upgrade	65	60	85	47	47	71	53	53	77	6.2	6.1	6.0
289030	Upgrade	65	60	85	47	47	71	53	53	77	6.3	6.2	6.2
289054	Upgrade	65	60	85	47	47	71	53	53	77	6.5	6.3	6.3
289086	Upgrade	65	60	85	46	46	70	52	53	76	6.3	6.2	6.0
289558	Upgrade	65	60	85	42	42	66	48	48	72	5.9	5.8	5.7
289656	Upgrade	65	60	85	32	32	55	40	40	62	7.9	8.1	6.8
289689	Upgrade	65	60	85	35	36	60	43	43	67	7.9	7.7	7.3
289755	Upgrade	65	60	85	36	36	60	45	45	68	8.5	8.4	7.7
289759	Upgrade	65	60	85	43	43	64	49	49	70	6.4	6.2	6.2
289802	Upgrade	65	60	85	33	32	56	41	41	62	8.0	8.3	6.3
289822	Upgrade	65	60	85	46	46	69	52	52	75	6.2	6.1	5.5
289879	Upgrade	65	60	85	48	49	70	54	55	77	6.0	5.8	6.7
289917	Upgrade	65	60	85	42	42	65	51	52	74	9.8	9.8	9.6
289940	Upgrade	65	60	85	40	40	63	51	51	74	11.0	10.8	11.3
289949	Upgrade	65	60	85	45	46	68	53	54	77	8.3	8.2	9.0
289963	Upgrade	65	60	85	43	43	66	52	52	75	9.5	9.5	9.6
289974	Upgrade	65	60	85	41	41	65	49	50	73	8.9	8.8	7.8
289991	Upgrade	65	60	85	49	49	73	55	55	78	6.2	6.1	5.7
290000	Upgrade	65	60	85	48	49	70	54	55	77	6.1	6.0	6.9
290058	Upgrade	65	60	85	47	47	70	53	53	76	6.4	6.3	5.3
290066	Upgrade	65	60	85	49	49	70	55	55	78	6.3	6.2	7.4
290067	Upgrade	65	60	85	43	43	66	52	52	75	8.9	8.7	8.8
290100	Upgrade	65	60	85	38	39	63	48	48	70	9.3	9.3	7.4
290103	Upgrade	65	60	85	43	43	65	51	51	75	8.4	8.3	9.5
290179	Upgrade	65	60	85	47	47	70	53	53	76	6.3	6.2	5.9
290210	Upgrade	65	60	85	47	47	71	53	53	76	6.3	6.3	5.4
290247	Upgrade	65	60	85	47	47	71	53	53	76	6.2	6.2	5.3
290315	Upgrade	65	60	85	48	48	72	54	54	77	6.0	6.1	5.6
290334	Upgrade	65	60	85	45	45	67	52	52	74	6.9	6.9	6.8
290337	Upgrade	65	60	85	44	44	66	51	51	73	6.8	6.7	6.7
290345	Upgrade	65	60	85	36	37	61	49	49	72	13.0	12.9	11.7
290375	Upgrade	65	60	85	45	45	69	52	52	75	6.9	7.0	5.9
290380	Upgrade	65	60	85	48	48	71	54	54	77	6.1	6.1	5.6
290389	Upgrade	65	60	85	0	0	0	27	27	52	27.1	27.3	51.5
290390	Upgrade	65	60	85	0	0	0	21	21	45	20.9	21.2	44.9
290409	Upgrade	65	60	85	41	41	64	51	51	74	10.2	10.1	10.2
290414	Upgrade	65	60	85	48	48	71	54	54	76	6.1	6.1	5.4
290425	Upgrade	65	60	85	34	34	59	47	48	70	13.9	13.8	12.0
290426	Upgrade	65	60	85	0	0	0	45	46	70	45.4	45.6	69.8
290429	Upgrade	65	60	85	45	45	68	52	53	76	7.8	7.7	8.1
290440	Upgrade	65	60	85	48	48	72	54	54	77	6.1	6.1	5.4
290443	Upgrade	65	60	85	47	48	71	54	54	76	6.3	6.3	5.5
290452	Upgrade	65	60	85	44	44	68	52	52	75	8.1	8.1	7.0
290460	Upgrade	65	60	85	0	0	0	35	35	60	35.1	35.3	59.6
290478	Upgrade	65	60	85	0	0	0	43	43	67	43.1	43.3	67.4
290483	Upgrade	65	60	85	0	0	0	48	48	72	47.9	48.2	71.6
290498	Upgrade	65	60	85	45	45	69	52	52	75	7.1	7.0	6.9
290500	Upgrade	65	60	85	49	49	73	55	56	79	6.1	6.2	5.5
290510	Upgrade	65	60	85	47	48	70	54	54	76	6.5	6.3	5.8
290513	Upgrade	65	60	85	0	0	0	42	42	66	41.7	42.0	66.0



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
290535	Upgrade	65	60	85	47	47	70	54	54	76	6.4	6.4	5.8
290574	Upgrade	65	60	85	48	48	72	55	55	78	6.5	6.5	5.6
290635	Upgrade	65	60	85	44	44	67	51	51	74	7.0	7.1	6.4
290677	Upgrade	65	60	85	0	0	0	48	48	72	47.7	47.9	71.5
290714	Upgrade	65	60	85	42	42	65	51	51	74	9.0	8.8	9.8
290717	Upgrade	65	60	85	44	44	68	51	51	74	7.1	7.1	6.2
290718	Upgrade	65	60	85	0	0	0	49	49	73	48.9	49.1	72.8
290727	Upgrade	65	60	85	44	44	67	52	52	75	8.2	8.1	8.1
290734	Upgrade	65	60	85	41	41	63	49	49	71	8.2	8.4	8.2
290736	Upgrade	65	60	85	44	44	66	51	52	74	7.5	7.5	7.4
290745	Upgrade	65	60	85	0	0	0	48	48	71	47.5	47.7	71.3
290747	Upgrade	65	60	85	43	44	67	51	52	75	8.2	8.0	8.0
290764	Upgrade	65	60	85	41	40	64	48	48	70	7.5	7.6	5.9
290779	Upgrade	65	60	85	36	36	57	44	44	66	7.6	8.0	9.5
290816	Upgrade	65	60	85	0	0	0	47	47	71	46.6	46.8	70.7
290819	Upgrade	65	60	85	43	44	67	51	51	73	7.2	7.1	6.2
290824	Upgrade	65	60	85	44	44	67	52	52	74	7.8	7.9	7.5
290854	Upgrade	65	60	85	43	43	66	51	51	73	7.7	7.8	7.0
290856	Upgrade	65	60	85	42	43	65	50	51	73	8.0	8.0	8.1
290872	Upgrade	65	60	85	42	42	66	51	51	73	8.6	8.4	7.7
290878	Upgrade	65	60	85	41	41	66	47	47	71	6.5	6.4	5.7
290933	Upgrade	65	60	85	41	41	64	50	50	72	8.6	8.5	8.6
291074	Upgrade	65	60	85	42	43	66	50	50	73	7.6	7.5	7.1
291115	Upgrade	65	60	85	41	42	65	49	49	72	8.0	7.9	6.6
291118	Upgrade	65	60	85	46	46	69	53	54	76	7.6	7.6	6.9
291126	Upgrade	65	60	85	0	0	0	46	46	70	45.7	45.9	70.1
291130	Upgrade	65	60	85	51	51	75	57	57	81	6.2	6.1	5.9
291138	Upgrade	65	60	85	49	49	73	55	55	78	5.9	5.9	4.9
291141	Upgrade	65	60	85	40	41	64	49	49	71	8.5	8.3	7.0
291147	Upgrade	65	60	85	47	48	71	54	54	77	6.4	6.5	6.6
291187	Upgrade	65	60	85	0	0	0	46	46	70	46.2	46.3	70.4
291199	Upgrade	65	60	85	37	37	62	45	45	68	8.1	7.9	5.6
291212	Upgrade	65	60	85	48	49	72	54	55	78	6.1	6.1	6.3
291234	Upgrade	65	60	85	36	36	61	46	47	71	10.3	10.2	9.8
291237	Upgrade	65	60	85	38	38	63	45	45	69	7.4	7.3	5.7
291240	Upgrade	65	60	85	51	51	75	57	57	80	6.0	5.9	4.5
291282	Upgrade	65	60	85	42	42	65	49	49	73	7.4	7.2	7.8
291284	Upgrade	65	60	85	38	39	62	46	46	69	7.7	7.6	7.3
291321	Upgrade	65	60	85	42	42	65	50	50	72	7.8	7.7	7.6
291328	Upgrade	65	60	85	43	43	66	51	51	73	7.5	7.4	7.5
291330	Upgrade	65	60	85	50	50	73	56	57	79	6.4	6.6	5.6
291347	Upgrade	65	60	85	37	38	61	45	45	69	7.2	7.1	7.6
291351	Upgrade	65	60	85	29	30	53	38	39	62	9.1	9.0	9.5
291357	Upgrade	65	60	85	31	31	56	39	40	63	8.6	8.5	6.8
291366	Upgrade	65	60	85	34	35	58	43	43	66	8.4	8.2	8.1
291368	Upgrade	65	60	85	32	32	55	41	41	64	9.0	8.8	8.7
291381	Upgrade	65	60	85	38	38	62	48	48	72	9.9	9.9	10.4
291385	Upgrade	65	60	85	36	37	61	46	46	68	9.5	9.4	6.4
291392	Upgrade	65	60	85	39	40	64	47	47	70	7.6	7.5	5.8
291399	Upgrade	65	60	85	37	38	62	45	45	68	7.5	7.5	6.8
291403	Upgrade	65	60	85	37	37	60	45	45	67	7.8	7.7	7.5

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
291407	Upgrade	65	60	85	37	37	61	46	46	69	8.7	8.6	8.2
291415	Upgrade	65	60	85	33	33	57	41	41	65	8.5	8.3	7.8
291429	Upgrade	65	60	85	41	41	62	48	48	69	7.1	7.3	7.1
291434	Upgrade	65	60	85	44	44	68	51	51	75	6.4	6.3	6.8
291441	Upgrade	65	60	85	32	32	56	40	40	63	7.8	7.7	6.8
291444	Upgrade	65	60	85	50	50	75	57	57	80	6.6	6.5	4.9
291452	Upgrade	65	60	85	39	38	60	46	46	67	6.8	7.4	6.7
291453	Upgrade	65	60	85	47	47	70	53	54	76	6.3	6.3	6.5
291464	Upgrade	65	60	85	42	42	65	50	50	73	8.1	8.0	7.9
291465	Upgrade	65	60	85	41	41	65	49	49	72	8.2	8.1	7.6
291469	Upgrade	65	60	85	39	40	63	48	49	72	8.9	8.8	8.8
291476	Upgrade	65	60	85	42	41	62	49	49	70	7.1	7.5	7.6
291488	Upgrade	65	60	85	42	42	66	49	49	73	7.0	6.7	6.8
291498	Upgrade	65	60	85	41	41	64	49	49	72	8.5	8.5	8.5
291502	Upgrade	65	60	85	40	40	62	47	47	68	6.8	7.2	6.0
291505	Upgrade	65	60	85	41	42	65	49	49	73	7.6	7.5	7.1
291520	Upgrade	65	60	85	41	42	64	49	49	72	7.4	7.3	7.6
291552	Upgrade	65	60	85	50	50	74	57	57	80	6.5	6.5	5.7
291557	Upgrade	65	60	85	38	38	60	46	47	69	8.5	8.4	8.3
291565	Upgrade	65	60	85	50	50	74	57	57	80	6.7	6.6	5.7
291566	Upgrade	65	60	85	41	41	62	48	48	69	7.1	7.5	6.9
291567	Upgrade	65	60	85	37	38	61	45	45	68	7.7	7.6	7.7
291575	Upgrade	65	60	85	40	41	64	48	48	71	7.7	7.6	7.2
291581	Upgrade	65	60	85	51	52	76	58	58	81	6.2	6.3	5.2
291582	Upgrade	65	60	85	43	43	64	50	50	71	6.9	7.2	7.5
291623	Upgrade	65	60	85	45	45	65	51	52	72	6.6	7.0	7.1
291849	Upgrade	65	60	85	47	47	69	53	53	76	6.3	6.1	6.9
291862	Upgrade	65	60	85	42	41	62	49	49	70	6.8	7.3	7.7
291872	Upgrade	65	60	85	39	39	62	46	46	67	6.3	6.9	5.4
291883	Upgrade	65	60	85	40	40	63	47	47	69	6.4	6.8	6.1
291951	Upgrade	65	60	85	39	39	62	46	46	68	6.6	7.0	5.9
291963	Upgrade	65	60	85	44	44	66	51	51	73	6.6	6.6	7.1
291974	Upgrade	65	60	85	42	42	63	49	49	71	6.7	7.1	7.3
292000	Upgrade	65	60	85	41	41	62	48	48	70	7.0	7.6	8.0
292048	Upgrade	65	60	85	43	43	66	49	49	73	6.2	6.1	6.9
292051	Upgrade	65	60	85	62	62	87	68	69	92	6.6	6.6	4.8
292075	Upgrade	65	60	85	45	44	66	51	51	73	6.5	6.9	6.9
292150	Upgrade	65	60	85	43	43	67	50	51	74	7.1	7.1	6.5
292274	Upgrade	65	60	85	50	49	72	57	57	78	7.3	7.7	6.4
292323	Upgrade	65	60	85	47	47	70	53	53	76	6.1	6.0	6.5
292360	Upgrade	65	60	85	51	51	75	58	58	79	7.1	7.6	4.2
292401	Upgrade	65	60	85	50	49	74	56	56	76	6.2	7.0	1.8
292427	Upgrade	65	60	85	48	47	71	55	55	74	6.5	7.2	3.1
292494	Upgrade	65	60	85	51	50	74	59	59	79	7.9	8.2	5.9
292640	Upgrade	65	60	85	61	61	88	70	70	94	9.4	9.5	5.2
292677	Upgrade	65	60	85	52	51	75	58	58	79	6.8	7.5	3.4
292705	Upgrade	65	60	85	48	47	73	54	54	74	5.7	6.3	1.4
292716	Upgrade	65	60	85	48	46	71	53	53	71	5.6	6.6	0.1
292721	Upgrade	65	60	85	49	48	72	55	55	74	6.2	7.0	1.8
292732	Upgrade	65	60	85	50	48	75	56	55	75	6.2	7.0	0.1
292736	Upgrade	65	60	85	47	46	72	54	54	72	6.9	7.6	0.1



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
292745	Upgrade	65	60	85	51	50	77	58	57	77	7.4	7.9	-0.2
292749	Upgrade	65	60	85	48	47	71	54	53	72	6.0	6.9	0.9
292761	Upgrade	65	60	85	53	52	78	59	59	79	6.3	7.0	1.9
292764	Upgrade	65	60	85	50	49	75	55	55	75	5.0	6.0	-0.2
292798	Upgrade	65	60	85	51	50	75	58	57	77	6.5	7.2	1.5
292802	Upgrade	65	60	85	49	48	75	56	56	74	6.8	7.4	-0.7
292815	Upgrade	65	60	85	53	51	79	57	57	78	4.5	5.5	-1.3
292831	Upgrade	65	60	85	49	48	73	55	54	73	5.3	6.2	-0.1
292840	Upgrade	65	60	85	48	47	74	55	54	75	7.1	7.7	1.1
292849	Upgrade	65	60	85	49	48	73	54	54	75	4.9	5.8	2.2
292852	Upgrade	65	60	85	51	49	77	57	56	77	6.0	6.8	-0.4
292861	Upgrade	65	60	85	53	52	76	61	61	81	8.4	8.6	5.1
292873	Upgrade	65	60	85	47	45	72	54	54	75	7.7	8.3	2.6
292882	Upgrade	65	60	85	48	47	70	54	54	74	5.8	6.6	3.5
292892	Upgrade	65	60	85	49	48	75	55	54	73	5.8	6.7	-1.3
292905	Upgrade	65	60	85	52	51	77	58	58	79	6.8	7.6	1.7
292911	Upgrade	65	60	85	49	48	75	55	55	76	6.2	7.0	0.6
292912	Upgrade	65	60	85	49	48	73	55	55	75	5.9	6.8	1.7
292921	Upgrade	65	60	85	54	52	80	58	57	78	4.1	5.1	-2.3
292928	Upgrade	65	60	85	47	46	73	56	55	76	8.3	8.9	2.7
292929	Upgrade	65	60	85	47	47	69	53	53	75	6.2	6.1	6.3
292937	Upgrade	65	60	85	52	50	78	56	56	75	4.7	5.7	-3.2
292939	Upgrade	65	60	85	50	48	75	55	55	74	5.7	6.6	-1.3
292945	Upgrade	65	60	85	49	47	74	55	54	73	6.2	7.1	-1.0
292951	Upgrade	65	60	85	49	48	73	55	55	74	5.8	6.7	1.4
292954	Upgrade	65	60	85	49	48	76	57	56	78	7.7	8.4	2.4
292971	Upgrade	65	60	85	52	51	78	59	58	78	6.7	7.4	0.2
292977	Upgrade	65	60	85	51	49	76	57	56	77	6.4	7.2	1.4
292978	Upgrade	65	60	85	48	47	74	56	56	76	8.6	9.2	1.9
292990	Upgrade	65	60	85	52	51	79	59	58	80	6.6	7.4	1.3
293012	Upgrade	65	60	85	52	50	78	57	57	76	5.8	6.8	-2.2
293013	Upgrade	65	60	85	49	48	75	55	55	76	6.4	7.3	1.6
293015	Upgrade	65	60	85	54	53	79	63	62	84	8.5	9.1	4.1
293023	Upgrade	65	60	85	56	54	82	64	63	85	8.0	8.6	3.0
293036	Upgrade	65	60	85	55	54	81	62	61	81	6.6	7.5	-0.2
293052	Upgrade	65	60	85	50	48	75	57	57	78	7.7	8.5	2.9
293060	Upgrade	65	60	85	56	55	82	62	62	82	5.7	6.8	0.4
293070	Upgrade	65	60	85	44	44	66	50	50	73	6.3	6.1	7.0
293078	Upgrade	65	60	85	57	57	80	67	66	87	9.5	9.4	6.9
293098	Upgrade	65	60	85	51	49	76	58	57	77	7.2	8.0	0.4
293128	Upgrade	65	60	85	52	50	77	57	56	76	5.1	6.0	-0.9
293130	Upgrade	65	60	85	53	52	80	60	60	80	7.1	7.9	0.1
293134	Upgrade	65	60	85	50	49	75	57	57	76	6.9	7.7	0.9
293137	Upgrade	65	60	85	50	49	75	55	55	75	5.5	6.4	-0.4
293160	Upgrade	65	60	85	47	46	73	51	51	72	4.3	5.3	-0.1
293167	Upgrade	65	60	85	44	44	66	50	50	73	6.3	6.1	6.9
293176	Upgrade	65	60	85	51	49	77	57	57	77	6.4	7.3	0.2
293186	Upgrade	65	60	85	57	55	84	62	61	82	5.0	6.0	-1.6
293187	Upgrade	65	60	85	49	48	73	55	55	74	5.8	6.6	0.7
293213	Upgrade	65	60	85	52	51	78	60	59	80	7.7	8.4	2.2
293221	Upgrade	65	60	85	51	50	76	57	57	77	6.5	7.3	0.7

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
293224	Upgrade	65	60	85	49	47	75	55	55	75	6.4	7.2	-0.2
293252	Upgrade	65	60	85	55	53	82	60	59	81	5.0	6.1	-0.9
293255	Upgrade	65	60	85	49	48	73	54	54	74	5.2	6.2	0.2
293263	Upgrade	65	60	85	52	50	76	57	57	76	5.6	6.5	0.3
293271	Upgrade	65	60	85	51	50	77	59	59	78	8.2	8.8	1.2
293276	Upgrade	65	60	85	51	49	76	56	56	76	5.5	6.4	-0.3
293278	Upgrade	65	60	85	50	48	73	55	55	74	5.5	6.4	1.0
293292	Upgrade	65	60	85	50	49	73	55	55	74	5.3	6.4	1.2
293299	Upgrade	65	60	85	57	55	84	60	59	79	2.8	4.1	-4.9
293311	Upgrade	65	60	85	50	49	75	57	57	76	7.3	8.0	1.3
293331	Upgrade	65	60	85	52	51	79	57	56	78	4.7	5.7	-1.6
293340	Upgrade	65	60	85	51	49	75	57	57	76	6.7	7.5	0.3
293376	Upgrade	65	60	85	47	47	70	53	53	75	6.3	6.3	5.0
293377	Upgrade	65	60	85	55	54	82	59	59	79	3.9	5.1	-3.0
293384	Upgrade	65	60	85	51	49	77	56	55	75	4.9	5.9	-2.4
293403	Upgrade	65	60	85	54	52	80	59	58	79	4.8	5.8	-0.9
293408	Upgrade	65	60	85	46	46	70	52	52	76	5.9	5.8	5.9
293410	Upgrade	65	60	85	54	53	81	56	56	77	1.8	3.1	-4.2
293422	Upgrade	65	60	85	63	62	88	73	72	95	10.3	10.5	6.4
293439	Upgrade	65	60	85	57	55	83	61	60	80	4.4	5.5	-3.4
293450	Upgrade	65	60	85	50	49	75	59	58	78	8.1	8.7	3.5
293460	Upgrade	65	60	85	55	54	80	62	61	81	6.8	7.6	1.3
293465	Upgrade	65	60	85	44	44	67	50	50	73	6.4	6.2	6.2
293474	Upgrade	65	60	85	51	49	77	57	56	77	6.1	6.9	-0.5
293482	Upgrade	65	60	85	64	63	90	74	74	96	10.2	10.6	6.4
293492	Upgrade	65	60	85	53	52	80	58	57	78	4.9	5.9	-2.1
293496	Upgrade	65	60	85	56	54	83	59	58	78	2.7	4.0	-4.9
293501	Upgrade	65	60	85	59	58	86	65	65	86	6.1	7.0	-0.9
293519	Upgrade	65	60	85	65	64	91	74	74	96	9.7	10.2	5.5
293528	Upgrade	65	60	85	52	50	79	57	57	76	5.4	6.4	-2.7
293529	Upgrade	65	60	85	50	49	75	55	55	74	5.2	6.2	-0.5
293538	Upgrade	65	60	85	55	53	79	60	59	80	5.3	6.3	0.3
293542	Upgrade	65	60	85	65	64	92	74	73	95	8.8	9.4	3.9
293546	Upgrade	65	60	85	50	49	74	55	55	75	4.8	5.8	0.3
293555	Upgrade	65	60	85	55	53	79	60	59	80	5.4	6.5	1.0
293562	Upgrade	65	60	85	60	58	88	63	62	84	3.3	4.4	-3.4
293573	Upgrade	65	60	85	50	49	74	55	55	75	5.6	6.5	0.6
293582	Upgrade	65	60	85	66	65	93	73	73	95	7.1	8.0	1.4
293589	Upgrade	65	60	85	52	51	78	58	58	78	6.0	7.0	-0.6
293597	Upgrade	65	60	85	53	52	78	58	58	77	5.0	6.1	-0.4
293602	Upgrade	65	60	85	50	49	72	55	55	76	5.5	6.4	4.3
293617	Upgrade	65	60	85	44	44	66	50	50	73	6.1	6.0	6.8
293620	Upgrade	65	60	85	61	60	87	74	73	96	12.8	12.6	8.4
293627	Upgrade	65	60	85	54	52	80	60	59	79	5.8	6.8	-0.6
293631	Upgrade	65	60	85	53	52	78	58	58	79	5.3	6.2	0.2
293634	Upgrade	65	60	85	50	49	76	55	55	73	5.0	6.0	-2.3
293635	Upgrade	65	60	85	61	59	88	65	65	87	4.6	5.6	-1.1
293640	Upgrade	65	60	85	70	68	97	71	70	90	0.7	2.1	-7.3
293661	Upgrade	65	60	85	57	55	83	61	60	81	4.3	5.4	-1.6
293666	Upgrade	65	60	85	53	52	79	59	59	79	6.1	7.1	0.0
293682	Upgrade	65	60	85	43	43	65	49	49	72	6.0	6.0	6.9



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
293684	Upgrade	65	60	85	71	69	99	73	72	94	1.9	3.1	-4.8
293686	Upgrade	65	60	85	51	50	76	56	56	75	5.0	6.1	-0.9
293687	Upgrade	65	60	85	53	52	79	57	57	77	4.4	5.5	-1.8
293692	Upgrade	65	60	85	51	49	75	56	56	76	5.5	6.5	0.4
293699	Upgrade	65	60	85	45	46	69	52	52	74	6.4	6.3	5.7
293702	Upgrade	65	60	85	51	50	77	60	60	81	9.3	9.9	3.7
293713	Upgrade	65	60	85	56	55	82	61	60	81	4.9	5.9	-1.1
293720	Upgrade	65	60	85	48	47	74	54	54	74	5.5	6.5	-0.7
293721	Upgrade	65	60	85	53	51	78	56	56	76	3.4	4.6	-1.6
293723	Upgrade	65	60	85	46	46	68	52	52	74	6.3	6.3	6.2
293724	Upgrade	65	60	85	70	68	98	72	71	91	1.7	2.9	-7.0
293740	Upgrade	65	60	85	50	49	74	56	55	75	5.6	6.6	1.0
293753	Upgrade	65	60	85	70	69	98	73	72	93	2.7	3.9	-5.0
293769	Upgrade	65	60	85	50	49	73	56	55	76	5.3	6.2	3.1
293785	Upgrade	65	60	85	72	70	100	74	73	95	2.0	3.2	-4.9
293786	Upgrade	65	60	85	56	54	81	61	61	81	5.7	6.7	-0.3
293804	Upgrade	65	60	85	54	53	81	59	58	77	4.3	5.4	-3.7
293805	Upgrade	65	60	85	52	50	77	56	55	75	4.2	5.3	-2.9
293808	Upgrade	65	60	85	63	62	89	72	72	94	9.1	9.6	5.2
293810	Upgrade	65	60	85	50	49	73	55	55	75	5.5	6.4	2.5
293829	Upgrade	65	60	85	59	58	87	62	62	82	2.6	3.9	-4.3
293831	Upgrade	65	60	85	54	53	79	60	60	80	6.1	7.0	1.4
293834	Upgrade	65	60	85	68	67	95	74	73	95	5.4	6.3	0.6
293845	Upgrade	65	60	85	51	49	77	55	55	75	4.6	5.7	-1.8
293849	Upgrade	65	60	85	53	51	78	57	56	76	4.0	5.1	-2.2
293861	Upgrade	65	60	85	59	57	84	60	60	82	1.7	3.1	-2.1
293880	Upgrade	65	60	85	53	51	78	57	57	77	4.1	5.2	-0.5
293882	Upgrade	65	60	85	55	53	79	59	59	79	4.6	5.7	0.1
293889	Upgrade	65	60	85	52	50	77	58	58	78	6.6	7.5	0.4
293891	Upgrade	65	60	85	52	51	78	56	55	76	3.2	4.3	-1.7
293900	Upgrade	65	60	85	68	66	95	76	75	97	8.0	8.9	2.6
293902	Upgrade	65	60	85	46	45	67	52	52	73	5.8	6.2	6.0
293916	Upgrade	65	60	85	51	50	74	55	55	76	4.5	5.3	2.3
293917	Upgrade	65	60	85	58	56	85	59	59	79	1.1	2.6	-5.2
293919	Upgrade	65	60	85	55	53	82	58	57	78	2.8	4.0	-3.9
293921	Upgrade	65	60	85	57	56	83	60	60	80	3.0	4.3	-3.3
293928	Upgrade	65	60	85	52	51	77	57	56	76	4.5	5.5	-0.6
293930	Upgrade	65	60	85	64	62	91	66	66	87	2.7	3.9	-3.9
293940	Upgrade	65	60	85	56	54	82	58	57	78	2.1	3.5	-4.7
293949	Upgrade	65	60	85	72	70	100	74	74	94	1.8	3.2	-5.9
293956	Upgrade	65	60	85	51	50	76	57	56	78	5.3	6.2	1.8
293961	Upgrade	65	60	85	54	53	79	60	60	81	5.7	6.6	2.0
293968	Upgrade	65	60	85	55	53	81	58	57	78	2.9	4.1	-3.3
293986	Upgrade	65	60	85	51	50	74	57	56	78	6.1	6.7	4.0
293987	Upgrade	65	60	85	56	55	83	62	62	83	5.8	6.8	-0.4
293988	Upgrade	65	60	85	59	58	85	64	64	84	5.0	6.1	-0.3
293995	Upgrade	65	60	85	55	53	81	58	58	78	3.6	4.9	-3.1
294012	Upgrade	65	60	85	56	55	83	60	59	81	3.3	4.5	-2.1
294014	Upgrade	65	60	85	53	52	78	58	57	79	4.7	5.7	0.6
294030	Upgrade	65	60	85	45	45	68	52	52	74	6.5	6.4	5.6
294040	Upgrade	65	60	85	67	66	94	76	75	98	8.9	9.5	4.4

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
294041	Upgrade	65	60	85	51	50	74	57	57	78	5.4	6.3	4.0
294060	Upgrade	65	60	85	52	51	76	58	58	79	5.3	6.2	2.5
294061	Upgrade	65	60	85	58	56	85	63	62	83	4.9	6.0	-1.9
294070	Upgrade	65	60	85	71	70	99	75	75	96	3.7	5.0	-3.3
294089	Upgrade	65	60	85	57	56	85	57	57	78	-0.1	1.4	-7.0
294095	Upgrade	65	60	85	58	56	85	61	60	81	2.6	3.9	-3.4
294105	Upgrade	65	60	85	71	69	98	70	70	91	-0.8	0.8	-7.7
294125	Upgrade	65	60	85	50	49	72	57	57	78	6.9	7.3	6.8
294127	Upgrade	65	60	85	64	62	91	66	66	86	1.8	3.2	-5.2
294131	Upgrade	65	60	85	61	60	89	62	62	84	0.7	2.3	-5.0
294135	Upgrade	65	60	85	47	47	69	53	53	75	6.2	6.0	6.6
294147	Upgrade	65	60	85	51	50	73	57	57	78	5.7	6.5	4.4
294169	Upgrade	65	60	85	68	67	95	78	77	101	10.0	10.8	5.5
294171	Upgrade	65	60	85	55	54	81	60	60	81	5.0	6.0	-0.2
294187	Upgrade	65	60	85	72	70	99	70	70	91	-1.8	-0.2	-8.8
294205	Upgrade	65	60	85	62	61	90	66	66	86	3.8	4.9	-4.0
294209	Upgrade	65	60	85	54	53	79	60	60	81	6.2	7.0	1.8
294229	Upgrade	65	60	85	61	60	87	76	75	99	14.8	15.2	11.5
294233	Upgrade	65	60	85	45	45	67	51	52	73	6.4	6.4	6.3
294244	Upgrade	65	60	85	54	53	79	61	61	82	6.5	7.2	3.2
294251	Upgrade	65	60	85	59	58	85	70	70	93	11.4	12.0	8.3
294266	Upgrade	65	60	85	54	53	79	60	60	82	5.7	6.6	3.2
294269	Upgrade	65	60	85	59	58	85	66	65	87	6.7	7.6	1.8
294277	Upgrade	65	60	85	52	51	74	58	58	79	6.0	6.7	4.7
294287	Upgrade	65	60	85	55	53	80	59	59	81	4.5	5.6	0.9
294319	Upgrade	65	60	85	54	52	80	61	60	81	7.0	7.8	0.9
294322	Upgrade	65	60	85	52	51	76	59	59	79	6.4	7.2	2.9
294323	Upgrade	65	60	85	62	60	88	73	72	95	11.2	12.0	7.0
294331	Upgrade	65	60	85	61	60	88	65	64	86	3.2	4.4	-1.9
294340	Upgrade	65	60	85	50	49	73	56	56	78	6.1	6.9	4.8
294352	Upgrade	65	60	85	69	67	96	73	73	94	3.7	5.1	-2.7
294368	Upgrade	65	60	85	54	53	79	62	62	83	8.8	9.3	3.5
294377	Upgrade	65	60	85	58	57	84	65	64	86	6.6	7.5	2.0
294378	Upgrade	65	60	85	59	58	83	64	64	87	5.2	6.2	3.5
294381	Upgrade	65	60	85	60	58	87	69	68	91	9.3	10.1	4.2
294393	Upgrade	65	60	85	53	52	75	59	59	81	6.4	7.1	5.3
294407	Upgrade	65	60	85	71	69	98	73	73	93	1.7	3.2	-5.1
294408	Upgrade	65	60	85	46	46	68	52	53	74	6.7	6.7	6.5
294411	Upgrade	65	60	85	54	53	80	61	61	83	7.1	7.7	3.4
294431	Upgrade	65	60	85	55	53	81	61	61	82	6.8	7.7	1.0
294432	Upgrade	65	60	85	51	51	74	58	58	81	7.0	7.5	6.2
294433	Upgrade	65	60	85	57	55	84	66	66	88	9.6	10.2	4.5
294435	Upgrade	65	60	85	72	71	100	73	72	94	0.3	1.8	-6.2
294448	Upgrade	65	60	85	44	44	66	50	51	72	6.5	6.6	6.4
294452	Upgrade	65	60	85	53	52	77	59	59	80	6.0	6.7	3.8
294464	Upgrade	65	60	85	51	50	73	57	57	78	6.2	6.9	5.1
294468	Upgrade	65	60	85	58	57	82	64	64	86	6.5	7.1	4.7
294472	Upgrade	65	60	85	52	51	74	58	58	79	5.8	6.5	5.4
294473	Upgrade	65	60	85	45	45	68	51	51	74	6.5	6.5	6.2
294483	Upgrade	65	60	85	54	52	80	59	59	80	5.3	6.3	0.8
294485	Upgrade	65	60	85	57	55	84	63	63	85	6.5	7.4	1.1



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
294486	Upgrade	65	60	85	56	55	83	65	64	86	8.9	9.6	3.4
294493	Upgrade	65	60	85	57	57	81	64	64	86	6.5	7.1	5.5
294497	Upgrade	65	60	85	52	52	76	59	58	80	6.2	6.8	4.5
294499	Upgrade	65	60	85	51	51	74	57	57	79	5.9	6.6	5.1
294506	Upgrade	65	60	85	67	65	95	63	63	85	-3.6	-1.7	-9.3
294521	Upgrade	65	60	85	56	55	82	65	64	87	8.8	9.6	4.5
294525	Upgrade	65	60	85	58	56	85	62	61	82	4.1	5.3	-2.5
294529	Upgrade	65	60	85	58	57	81	64	64	86	6.3	7.0	5.8
294532	Upgrade	65	60	85	53	53	77	58	58	80	5.2	5.7	3.6
294537	Upgrade	65	60	85	56	54	83	60	59	80	4.0	5.1	-3.0
294562	Upgrade	65	60	85	57	57	81	64	64	86	6.1	6.9	5.3
294580	Upgrade	65	60	85	64	62	91	63	63	84	-0.3	1.2	-7.8
294583	Upgrade	65	60	85	55	53	81	62	62	83	7.5	8.5	1.9
294585	Upgrade	65	60	85	58	56	85	60	60	81	2.8	4.1	-4.2
294604	Upgrade	65	60	85	57	57	81	63	63	86	6.0	6.7	5.0
294607	Upgrade	65	60	85	55	55	79	62	62	85	7.4	7.6	5.4
294617	Upgrade	65	60	85	57	55	82	61	61	81	4.5	5.6	-1.1
294622	Upgrade	65	60	85	64	62	92	64	63	85	-0.2	1.2	-6.8
294623	Upgrade	65	60	85	53	52	80	62	61	81	8.5	9.1	1.2
294629	Upgrade	65	60	85	54	52	80	61	61	82	7.8	8.5	1.7
294645	Upgrade	65	60	85	46	46	69	53	53	75	6.2	6.3	6.0
294648	Upgrade	65	60	85	54	53	79	61	61	83	6.7	7.2	3.7
294656	Upgrade	65	60	85	45	46	69	52	52	75	6.8	6.8	5.6
294662	Upgrade	65	60	85	52	51	75	57	57	77	5.2	5.8	2.4
294669	Upgrade	65	60	85	55	53	81	61	60	81	6.1	7.0	-0.4
294670	Upgrade	65	60	85	63	61	90	61	60	81	-2.1	-0.5	-9.5
294673	Upgrade	65	60	85	51	50	73	56	56	77	5.4	6.0	3.7
294676	Upgrade	65	60	85	54	53	81	61	61	82	7.3	8.1	1.4
294690	Upgrade	65	60	85	56	55	80	61	61	83	5.3	6.3	3.1
294712	Upgrade	65	60	85	63	61	91	61	61	82	-2.3	-0.6	-9.1
294719	Upgrade	65	60	85	54	53	79	61	61	84	7.2	7.6	5.3
294720	Upgrade	65	60	85	55	53	80	60	60	80	5.7	6.6	0.0
294751	Upgrade	65	60	85	59	58	83	64	64	86	5.5	6.4	3.5
294752	Upgrade	65	60	85	45	46	68	52	52	74	6.9	6.9	6.8
294761	Upgrade	65	60	85	46	46	69	53	53	75	6.7	6.7	6.2
294774	Upgrade	65	60	85	59	57	86	61	60	81	1.9	3.2	-5.3
294779	Upgrade	65	60	85	54	52	78	60	59	80	6.0	6.9	1.5
294807	Upgrade	65	60	85	52	51	76	58	57	77	5.4	6.2	0.1
294815	Upgrade	65	60	85	59	57	86	59	59	80	-0.1	1.5	-6.2
294816	Upgrade	65	60	85	53	52	78	59	59	78	6.1	7.0	-0.1
294822	Upgrade	65	60	85	55	55	79	62	62	85	6.8	7.3	5.7
294835	Upgrade	65	60	85	54	53	79	60	60	80	5.7	6.7	1.2
294844	Upgrade	65	60	85	53	52	77	59	59	79	5.5	6.2	2.0
294875	Upgrade	65	60	85	53	52	78	60	59	79	6.9	7.7	1.4
294897	Upgrade	65	60	85	57	56	84	60	60	80	2.7	4.0	-3.6
294903	Upgrade	65	60	85	44	45	67	51	51	73	6.9	6.7	6.6
294930	Upgrade	65	60	85	57	57	84	64	65	88	6.9	7.3	4.1
294959	Upgrade	65	60	85	44	44	66	50	51	73	6.6	6.6	6.5
294976	Upgrade	65	60	85	45	45	67	52	52	74	7.1	7.1	7.2
294996	Upgrade	65	60	85	44	44	66	50	51	73	6.6	6.6	6.5
294997	Upgrade	65	60	85	57	55	84	60	59	80	2.7	4.0	-3.2

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
295043	Upgrade	65	60	85	51	50	76	58	57	77	6.4	7.1	0.7
295049	Upgrade	65	60	85	44	45	66	51	52	73	6.9	7.0	6.8
295052	Upgrade	65	60	85	60	60	87	67	67	91	7.0	7.1	3.1
295068	Upgrade	65	60	85	46	46	67	53	53	75	7.4	7.4	7.5
295083	Upgrade	65	60	85	44	44	66	51	51	73	6.7	6.7	6.3
295116	Upgrade	65	60	85	42	43	64	49	50	71	7.1	7.0	7.3
295138	Upgrade	65	60	85	44	44	66	50	51	72	6.6	6.7	6.7
295206	Upgrade	65	60	85	45	45	67	52	52	74	7.4	7.6	7.5
295281	Upgrade	65	60	85	60	61	87	69	70	93	9.0	9.2	6.0
295294	Upgrade	65	60	85	50	49	74	56	56	75	6.4	7.0	1.1
295334	Upgrade	65	60	85	44	44	68	50	51	73	6.7	6.7	5.9
295387	Upgrade	65	60	85	57	56	82	62	62	83	5.2	5.9	1.0
295412	Upgrade	65	60	85	42	43	65	48	48	71	5.5	5.4	5.9
295424	Upgrade	65	60	85	47	47	69	54	54	76	7.0	7.0	7.3
295438	Upgrade	65	60	85	44	44	66	51	51	73	7.0	7.1	6.9
295511	Upgrade	65	60	85	44	45	66	51	51	73	6.9	6.9	7.2
295546	Upgrade	65	60	85	44	44	65	52	52	73	7.8	8.0	8.4
295658	Upgrade	65	60	85	45	45	66	52	52	74	7.0	7.1	7.7
295688	Upgrade	65	60	85	39	40	63	46	46	69	6.3	6.3	5.4
295773	Upgrade	65	60	85	37	37	59	44	44	65	6.4	6.7	6.7
295849	Upgrade	65	60	85	45	45	67	52	52	74	7.5	7.6	6.1
295856	Upgrade	65	60	85	44	44	65	51	51	72	7.3	7.5	7.4
295887	Upgrade	65	60	85	43	43	66	51	51	72	7.3	7.3	6.5
295903	Upgrade	65	60	85	49	48	71	55	55	76	6.5	7.1	5.3
296048	Upgrade	65	60	85	42	42	64	49	49	72	7.1	7.2	7.3
296087	Upgrade	65	60	85	32	32	55	39	39	60	7.3	7.6	5.8
296153	Upgrade	65	60	85	47	46	67	54	54	74	7.6	8.0	7.2
296159	Upgrade	65	60	85	48	47	70	55	55	76	7.3	7.7	5.9
296222	Upgrade	65	60	85	43	43	65	50	50	72	7.2	7.3	7.4
296235	Upgrade	65	60	85	41	41	63	48	48	70	6.5	7.0	7.7
296275	Upgrade	65	60	85	41	41	63	48	48	70	6.8	7.0	7.5
296295	Upgrade	65	60	85	40	40	62	46	46	67	6.4	6.8	5.5
296372	Upgrade	65	60	85	37	37	61	43	43	67	5.9	5.9	5.5
296426	Upgrade	65	60	85	31	30	55	39	38	60	7.8	8.0	4.9
296459	Upgrade	65	60	85	30	30	54	37	37	58	6.7	7.1	4.1
296545	Upgrade	65	60	85	35	35	60	42	42	65	6.7	6.8	5.0
296549	Upgrade	65	60	85	35	35	61	42	42	66	6.9	6.8	5.0
296590	Upgrade	65	60	85	38	38	59	45	45	67	7.6	7.8	8.4
296756	Upgrade	65	60	85	39	39	61	46	46	67	6.7	7.2	5.7
296865	Upgrade	65	60	85	41	41	65	48	48	70	6.6	7.2	4.6
297186	Upgrade	65	60	85	29	30	53	38	38	61	8.4	8.3	8.3
297257	Upgrade	65	60	85	45	45	67	50	51	73	5.8	6.0	5.5
297282	Upgrade	65	60	85	66	64	92	70	70	91	4.5	5.2	-0.8
297312	Upgrade	65	60	85	67	66	92	74	74	95	7.3	8.0	3.2
297320	Upgrade	65	60	85	38	37	60	45	45	67	7.1	7.8	6.9
297470	Upgrade	65	60	85	37	37	59	45	45	67	7.4	7.7	8.0
297473	Upgrade	65	60	85	35	34	58	42	42	64	7.5	7.9	6.1
297544	Upgrade	65	60	85	37	36	58	44	44	66	7.1	7.5	7.3
297582	Upgrade	65	60	85	34	34	57	41	42	64	7.8	7.7	7.4
297583	Upgrade	65	60	85	41	41	64	46	47	70	5.5	5.4	6.6
297598	Upgrade	65	60	85	42	43	66	48	48	72	5.7	5.6	6.0



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		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
297614	Upgrade	65	60	85	37	36	60	43	43	65	6.5	7.3	5.1
297665	Upgrade	65	60	85	37	36	61	44	44	66	6.4	7.2	4.6
297667	Upgrade	65	60	85	41	41	64	47	47	71	5.6	5.5	6.8
297676	Upgrade	65	60	85	36	36	60	44	44	68	8.0	8.0	8.0
297690	Upgrade	65	60	85	38	37	61	44	45	67	6.4	7.1	5.5
297705	Upgrade	65	60	85	35	36	58	44	44	66	8.2	8.1	8.0
297713	Upgrade	65	60	85	34	34	59	42	42	66	7.9	7.8	7.0
297740	Upgrade	65	60	85	31	32	55	39	39	62	7.6	7.6	7.2
297767	Upgrade	65	60	85	35	34	57	42	42	64	7.4	7.7	6.9
297854	Upgrade	65	60	85	34	35	58	42	43	66	8.0	8.1	7.9
297861	Upgrade	65	60	85	36	37	60	45	45	67	8.6	8.4	7.9
297864	Upgrade	65	60	85	35	34	57	42	42	65	6.9	7.3	7.5
297889	Upgrade	65	60	85	45	45	67	52	52	73	6.7	7.1	6.1
297905	Upgrade	65	60	85	35	35	56	42	43	65	7.6	8.0	8.7
297913	Upgrade	65	60	85	45	45	67	52	52	73	6.7	7.2	6.4
298001	Upgrade	65	60	85	44	43	67	50	50	71	6.1	6.8	4.2
298030	Upgrade	65	60	85	34	33	57	40	40	62	6.6	7.2	5.6
298170	Upgrade	65	60	85	37	37	61	45	45	67	7.3	7.9	6.3
298180	Upgrade	65	60	85	38	38	60	46	46	68	7.7	8.1	8.2
298183	Upgrade	65	60	85	43	43	64	50	50	71	6.8	7.2	7.5
298218	Upgrade	65	60	85	36	35	58	44	44	65	7.8	8.1	7.6
298575	Upgrade	65	60	85	52	52	76	58	58	80	5.6	5.9	4.5
298644	Upgrade	65	60	85	36	36	58	44	44	67	8.1	8.3	8.3
298675	Upgrade	65	60	85	53	53	76	59	59	81	5.5	5.7	5.3
298683	Upgrade	65	60	85	36	36	58	44	44	66	8.3	8.5	8.3
298692	Upgrade	65	60	85	34	33	56	41	41	64	7.6	8.1	8.0
298713	Upgrade	65	60	85	33	32	57	40	39	60	6.8	7.4	3.0
298798	Upgrade	65	60	85	0	0	0	39	40	63	39.3	39.7	63.1
298819	Upgrade	65	60	85	52	52	75	57	57	80	5.5	5.7	4.9
298829	Upgrade	65	60	85	34	34	57	43	43	65	8.8	9.0	7.9
298840	Upgrade	65	60	85	29	29	55	40	40	62	11.1	10.7	7.3
298858	Upgrade	65	60	85	58	58	83	63	64	87	5.5	5.5	3.6
298890	Upgrade	65	60	85	38	38	60	46	46	69	7.5	7.9	8.9
298902	Upgrade	65	60	85	45	45	67	52	52	74	6.7	7.0	6.8
298942	Upgrade	65	60	85	47	46	68	53	53	75	6.0	6.5	7.6
298971	Upgrade	65	60	85	41	41	63	48	49	71	7.3	7.8	8.2
298997	Upgrade	65	60	85	52	52	76	58	58	81	5.5	5.7	4.7
299021	Upgrade	65	60	85	38	37	60	45	45	68	7.3	7.9	8.0
299047	Upgrade	65	60	85	45	45	68	52	52	74	6.4	6.7	6.7
299057	Upgrade	65	60	85	48	47	69	54	54	76	6.1	6.5	6.9
299089	Upgrade	65	60	85	42	42	63	49	49	70	7.0	7.4	7.1
299098	Upgrade	65	60	85	42	42	63	49	49	71	7.0	7.6	8.3
299173	Upgrade	65	60	85	43	42	64	50	50	72	7.4	7.8	8.2
299251	Upgrade	65	60	85	50	49	72	56	56	77	6.1	6.4	5.2
299262	Upgrade	65	60	85	47	46	72	52	52	73	5.5	6.1	1.6
299280	Upgrade	65	60	85	50	49	71	56	56	77	5.9	6.3	6.0
299307	Upgrade	65	60	85	50	49	71	56	56	77	5.9	6.2	5.9
299417	Upgrade	65	60	85	42	43	66	48	48	72	5.5	5.5	5.6
299465	Upgrade	65	60	85	45	45	68	51	51	74	6.1	6.4	5.7
299469	Upgrade	65	60	85	43	43	64	50	50	71	6.8	7.3	7.5
299478	Upgrade	65	60	85	43	44	67	49	49	73	5.5	5.4	5.4

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
299488	Upgrade	65	60	85	42	42	62	49	49	70	6.9	7.3	8.4
299515	Upgrade	65	60	85	29	29	52	36	36	59	7.4	7.4	6.9
299542	Upgrade	65	60	85	28	29	53	35	36	59	6.9	6.8	6.3
299544	Upgrade	65	60	85	26	26	53	34	34	59	7.6	7.5	6.0
299570	Upgrade	65	60	85	46	47	68	52	52	75	5.6	5.5	6.6
299577	Upgrade	65	60	85	28	28	51	36	36	58	7.9	7.8	6.8
299581	Upgrade	65	60	85	27	27	50	34	34	57	7.0	6.9	7.1
299582	Upgrade	65	60	85	32	33	57	40	41	64	7.9	7.9	6.6
299583	Upgrade	65	60	85	27	28	51	35	35	58	7.3	7.2	7.3
299586	Upgrade	65	60	85	31	32	55	39	39	62	7.2	7.2	6.5
299588	Upgrade	65	60	85	28	29	53	37	37	60	8.1	7.9	6.2
299607	Upgrade	65	60	85	32	31	57	36	36	59	3.8	4.8	2.7
299618	Upgrade	65	60	85	30	30	53	37	37	61	6.6	6.7	7.4
299646	Upgrade	65	60	85	46	47	68	52	52	74	5.6	5.5	6.3
299651	Upgrade	65	60	85	28	27	54	30	30	54	2.0	3.3	-0.3
299659	Upgrade	65	60	85	34	33	58	39	39	62	4.9	5.7	4.5
299666	Upgrade	65	60	85	34	34	57	40	40	63	5.3	6.0	5.5
299667	Upgrade	65	60	85	33	33	57	38	38	62	4.7	5.6	4.9
299668	Upgrade	65	60	85	32	32	57	39	39	62	6.5	6.8	5.4
299669	Upgrade	65	60	85	26	25	52	30	30	54	3.7	4.9	1.8
299674	Upgrade	65	60	85	32	31	57	37	37	61	4.8	5.7	3.9
299677	Upgrade	65	60	85	33	32	57	37	38	61	4.4	5.4	3.9
299680	Upgrade	65	60	85	29	28	54	33	33	57	4.1	5.3	2.8
299681	Upgrade	65	60	85	36	36	59	41	42	65	5.4	6.3	6.3
299682	Upgrade	65	60	85	34	33	57	39	39	62	5.1	6.0	5.2
299688	Upgrade	65	60	85	32	32	57	36	37	60	3.9	5.0	2.9
299691	Upgrade	65	60	85	32	31	57	35	35	59	3.0	4.2	2.1
299692	Upgrade	65	60	85	33	32	58	36	36	60	2.4	3.9	1.9
299697	Upgrade	65	60	85	36	35	60	41	41	64	4.9	5.8	4.5
299703	Upgrade	65	60	85	33	33	57	38	38	61	4.3	5.3	3.8
299708	Upgrade	65	60	85	30	29	55	32	32	55	1.6	3.2	0.7
299710	Upgrade	65	60	85	30	29	56	32	33	56	2.7	4.1	0.3
299726	Upgrade	65	60	85	32	30	56	35	35	58	2.9	4.3	1.8
299741	Upgrade	65	60	85	32	31	57	35	36	59	3.1	4.5	2.1
299742	Upgrade	65	60	85	36	35	60	41	42	65	5.3	6.2	5.0
299744	Upgrade	65	60	85	35	34	58	40	40	63	5.4	6.1	4.9
299745	Upgrade	65	60	85	28	27	54	32	33	56	3.9	5.1	2.3
299749	Upgrade	65	60	85	28	28	54	32	33	56	3.9	5.0	2.3
299750	Upgrade	65	60	85	28	27	54	32	32	56	3.7	4.9	2.0
299757	Upgrade	65	60	85	31	30	56	35	35	58	3.4	4.7	2.1
299764	Upgrade	65	60	85	33	32	56	37	38	61	4.8	5.7	4.6
299766	Upgrade	65	60	85	35	35	57	41	41	64	5.8	6.5	7.0
299770	Upgrade	65	60	85	34	33	57	38	39	62	4.8	5.7	4.5
299787	Upgrade	65	60	85	33	32	56	38	38	62	5.1	5.9	5.4
299789	Upgrade	65	60	85	34	34	57	40	40	63	5.4	6.1	5.8
299793	Upgrade	65	60	85	35	34	57	40	41	63	5.6	6.3	6.0
299797	Upgrade	65	60	85	33	32	57	36	37	60	3.7	5.0	2.7
299810	Upgrade	65	60	85	33	33	56	39	40	63	5.9	6.5	6.8
299812	Upgrade	65	60	85	33	32	57	37	37	60	3.8	5.0	3.7
299817	Upgrade	65	60	85	35	34	58	40	40	63	4.8	5.7	4.4
299829	Upgrade	65	60	85	32	31	55	36	36	60	4.2	5.3	5.2



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
299830	Upgrade	65	60	85	33	32	57	37	37	61	3.7	4.9	3.6
299843	Upgrade	65	60	85	34	34	58	39	40	63	5.0	5.7	4.6
299860	Upgrade	65	60	85	35	35	57	40	41	63	5.2	6.1	6.4
299864	Upgrade	65	60	85	32	31	55	35	36	59	3.9	5.0	4.6
299866	Upgrade	65	60	85	32	31	56	35	35	59	3.2	4.6	3.0
299871	Upgrade	65	60	85	45	45	67	51	51	74	6.5	6.9	7.0
299877	Upgrade	65	60	85	34	33	57	37	38	61	3.8	5.0	4.4
299882	Upgrade	65	60	85	36	36	59	41	42	64	5.2	6.1	5.9
299884	Upgrade	65	60	85	33	32	57	36	36	60	3.4	4.6	2.9
299886	Upgrade	65	60	85	29	28	54	31	31	55	1.2	2.9	0.2
299888	Upgrade	65	60	85	29	28	54	31	32	55	2.1	3.6	1.3
299889	Upgrade	65	60	85	36	35	57	41	41	64	5.1	5.8	6.3
299890	Upgrade	65	60	85	33	32	55	38	39	62	5.3	6.2	6.9
299891	Upgrade	65	60	85	33	31	56	35	35	59	2.5	4.0	2.4
299894	Upgrade	65	60	85	47	47	68	52	52	75	5.6	5.5	6.3
299911	Upgrade	65	60	85	31	30	54	34	34	58	3.2	4.6	3.6
299915	Upgrade	65	60	85	30	29	55	33	33	56	2.7	4.1	1.7
299918	Upgrade	65	60	85	33	32	55	38	39	62	5.2	6.1	6.6
299919	Upgrade	65	60	85	31	31	55	36	37	60	4.9	5.9	5.4
299928	Upgrade	65	60	85	31	30	55	35	35	59	3.5	4.7	3.9
299932	Upgrade	65	60	85	30	29	54	33	33	57	2.6	4.0	2.7
299941	Upgrade	65	60	85	36	35	58	41	41	64	5.1	5.9	6.0
299942	Upgrade	65	60	85	35	34	58	40	40	64	4.9	5.9	6.1
299945	Upgrade	65	60	85	30	28	55	32	32	56	2.0	3.6	0.2
299952	Upgrade	65	60	85	45	45	67	52	52	74	6.4	6.7	6.6
299953	Upgrade	65	60	85	35	34	56	40	41	64	5.5	6.3	7.6
299963	Upgrade	65	60	85	33	33	56	39	39	62	5.9	6.5	6.1
299965	Upgrade	65	60	85	30	29	53	34	34	58	4.2	5.3	4.2
299972	Upgrade	65	60	85	33	32	55	38	38	61	4.9	5.8	6.1
299984	Upgrade	65	60	85	43	42	64	49	49	71	6.6	7.0	6.4
299993	Upgrade	65	60	85	32	31	56	36	36	59	3.2	4.5	3.5
299995	Upgrade	65	60	85	31	30	54	36	36	59	4.7	5.8	5.4
299996	Upgrade	65	60	85	35	34	57	40	40	63	4.6	5.6	5.9
300005	Upgrade	65	60	85	33	33	55	39	39	62	5.5	6.3	7.2
300006	Upgrade	65	60	85	28	27	54	32	32	56	3.8	4.9	2.2
300009	Upgrade	65	60	85	44	44	67	49	49	73	5.6	5.4	5.3
300015	Upgrade	65	60	85	33	33	55	39	39	62	5.2	6.1	6.9
300021	Upgrade	65	60	85	33	32	55	37	37	61	4.6	5.6	5.7
300025	Upgrade	65	60	85	35	34	57	40	40	63	4.9	5.7	6.0
300030	Upgrade	65	60	85	34	34	57	39	40	63	5.0	5.9	5.6
300037	Upgrade	65	60	85	30	29	55	34	34	58	4.2	5.3	2.9
300040	Upgrade	65	60	85	32	31	55	35	35	58	3.3	4.6	3.4
300043	Upgrade	65	60	85	35	34	58	40	40	63	4.3	5.4	4.9
300048	Upgrade	65	60	85	34	33	58	37	38	61	3.1	4.4	3.1
300052	Upgrade	65	60	85	36	35	57	41	41	64	5.2	5.8	7.3
300057	Upgrade	65	60	85	33	32	55	37	38	61	4.7	5.7	5.2
300062	Upgrade	65	60	85	37	37	60	42	42	65	4.7	5.2	5.2
300063	Upgrade	65	60	85	31	30	55	34	34	57	2.9	4.3	2.7
300064	Upgrade	65	60	85	44	43	65	50	50	72	6.6	6.9	7.8
300067	Upgrade	65	60	85	46	47	68	52	52	74	5.6	5.6	6.5
300080	Upgrade	65	60	85	32	31	57	36	36	59	3.2	4.5	2.6

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
300083	Upgrade	65	60	85	31	31	54	36	36	59	4.1	5.2	4.9
300084	Upgrade	65	60	85	34	33	57	39	39	62	4.8	5.8	4.7
300088	Upgrade	65	60	85	35	34	59	40	40	63	4.3	5.5	4.2
300092	Upgrade	65	60	85	41	40	63	47	47	69	6.6	7.0	6.3
300100	Upgrade	65	60	85	36	35	59	40	40	63	4.6	5.6	4.0
300102	Upgrade	65	60	85	35	34	58	40	40	63	4.3	5.4	4.7
300104	Upgrade	65	60	85	33	32	55	37	37	61	4.4	5.4	5.3
300106	Upgrade	65	60	85	33	32	57	35	35	58	1.8	3.4	1.3
300107	Upgrade	65	60	85	36	35	58	42	42	65	6.0	6.6	7.7
300108	Upgrade	65	60	85	35	34	59	40	40	64	5.4	6.2	5.7
300111	Upgrade	65	60	85	33	32	57	35	36	59	2.2	3.7	2.3
300115	Upgrade	65	60	85	42	42	64	48	48	71	6.0	6.3	6.3
300121	Upgrade	65	60	85	35	34	58	38	39	62	3.8	5.0	3.8
300122	Upgrade	65	60	85	31	30	55	34	34	58	2.7	4.1	2.8
300126	Upgrade	65	60	85	34	34	57	40	40	63	5.1	6.0	6.2
300129	Upgrade	65	60	85	35	35	57	40	41	64	5.4	6.0	7.0
300133	Upgrade	65	60	85	52	52	77	31	31	55	-21.0	-21.0	-22.8
300135	Upgrade	65	60	85	33	33	55	39	39	62	5.2	6.1	6.6
300142	Upgrade	65	60	85	34	34	58	38	39	62	4.1	5.1	3.8
300144	Upgrade	65	60	85	53	53	78	34	34	58	-18.9	-18.9	-20.5
300146	Upgrade	65	60	85	34	34	56	40	40	63	6.0	6.6	7.6
300147	Upgrade	65	60	85	34	33	58	37	37	61	2.8	4.2	2.8
300149	Upgrade	65	60	85	36	36	58	42	42	65	5.7	6.3	7.1
300155	Upgrade	65	60	85	37	37	60	42	42	66	5.0	5.5	6.0
300159	Upgrade	65	60	85	33	32	57	38	38	61	4.2	5.4	3.8
300165	Upgrade	65	60	85	35	35	58	40	40	63	4.7	5.8	5.0
300166	Upgrade	65	60	85	36	35	58	40	41	64	4.8	5.8	5.7
300169	Upgrade	65	60	85	35	34	57	39	40	62	4.4	5.5	5.0
300172	Upgrade	65	60	85	32	31	55	35	35	58	2.9	4.3	3.1
300175	Upgrade	65	60	85	51	51	76	37	37	61	-13.7	-13.7	-15.5
300177	Upgrade	65	60	85	35	34	58	40	40	63	4.7	5.6	5.0
300184	Upgrade	65	60	85	35	34	58	39	39	62	3.9	5.1	4.3
300188	Upgrade	65	60	85	38	37	61	44	44	66	6.0	6.4	5.1
300189	Upgrade	65	60	85	32	30	55	34	34	57	2.0	3.5	2.1
300192	Upgrade	65	60	85	35	34	58	39	40	63	4.3	5.5	4.9
300199	Upgrade	65	60	85	36	36	57	42	42	65	5.7	6.3	7.5
300201	Upgrade	65	60	85	32	31	56	36	36	60	4.1	5.3	3.6
300204	Upgrade	65	60	85	39	39	61	46	46	69	7.0	7.3	7.9
300215	Upgrade	65	60	85	46	47	68	52	52	74	5.7	5.6	6.7
300217	Upgrade	65	60	85	38	38	60	43	43	67	5.2	5.6	6.6
300221	Upgrade	65	60	85	46	47	68	52	52	74	5.7	5.6	6.4
300223	Upgrade	65	60	85	35	35	58	40	41	63	5.1	6.1	5.8
300224	Upgrade	65	60	85	55	55	80	40	41	64	-14.2	-14.2	-15.9
300227	Upgrade	65	60	85	34	33	58	36	36	60	2.2	3.8	2.0
300229	Upgrade	65	60	85	40	40	62	46	47	69	6.7	6.9	7.5
300231	Upgrade	65	60	85	51	51	75	41	41	65	-10.2	-10.1	-10.7
300232	Upgrade	65	60	85	35	34	58	39	39	62	3.9	5.2	3.5
300240	Upgrade	65	60	85	50	51	75	34	34	57	-16.3	-16.2	-17.3
300243	Upgrade	65	60	85	35	34	58	39	40	63	4.7	5.7	5.1
300246	Upgrade	65	60	85	40	40	63	46	46	70	5.6	5.9	6.4
300249	Upgrade	65	60	85	36	35	59	40	40	63	4.1	5.1	3.8



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmaz	LAeq,15hr	LAeq,9hr	LAmaz	LAeq,15hr	LAeq,9hr	LAmaz
300250	Upgrade	65	60	85	41	40	63	47	47	69	6.3	6.7	6.0
300255	Upgrade	65	60	85	34	33	56	39	39	62	5.1	6.1	6.6
300257	Upgrade	65	60	85	32	31	57	35	35	59	3.3	4.6	2.3
300258	Upgrade	65	60	85	36	35	58	41	41	64	5.3	6.0	6.1
300259	Upgrade	65	60	85	35	34	57	39	40	63	4.7	5.7	6.1
300263	Upgrade	65	60	85	34	34	56	40	40	62	5.4	6.2	6.3
300264	Upgrade	65	60	85	33	32	57	36	36	59	2.5	3.9	2.2
300266	Upgrade	65	60	85	31	30	55	33	34	57	2.0	3.5	2.0
300267	Upgrade	65	60	85	54	54	78	40	40	63	-14.0	-13.9	-14.9
300268	Upgrade	65	60	85	51	51	74	36	36	59	-15.1	-15.0	-15.1
300269	Upgrade	65	60	85	36	35	60	41	41	64	4.6	5.5	4.2
300271	Upgrade	65	60	85	59	59	85	38	38	61	-21.2	-21.2	-23.2
300272	Upgrade	65	60	85	36	36	58	41	42	64	5.2	5.9	6.3
300274	Upgrade	65	60	85	33	33	56	38	38	61	4.5	5.5	5.3
300275	Upgrade	65	60	85	39	39	62	44	44	68	5.6	5.7	6.2
300276	Upgrade	65	60	85	54	54	80	39	39	63	-15.3	-15.2	-17.1
300284	Upgrade	65	60	85	35	34	57	40	40	63	5.4	6.3	6.5
300289	Upgrade	65	60	85	37	36	60	41	41	64	4.0	4.9	4.1
300291	Upgrade	65	60	85	47	46	69	53	53	74	6.1	6.4	5.4
300295	Upgrade	65	60	85	35	34	57	40	40	63	5.0	6.0	6.0
300302	Upgrade	65	60	85	35	34	58	40	40	63	5.2	6.1	5.6
300304	Upgrade	65	60	85	33	33	56	38	38	62	4.8	5.8	6.0
300305	Upgrade	65	60	85	54	54	78	35	36	59	-18.3	-18.2	-18.9
300310	Upgrade	65	60	85	35	35	59	40	41	64	5.3	6.1	5.1
300314	Upgrade	65	60	85	37	37	60	41	41	65	4.2	4.8	5.3
300322	Upgrade	65	60	85	37	36	60	42	42	65	4.8	6.0	5.4
300327	Upgrade	65	60	85	32	31	56	35	35	58	2.8	4.3	2.9
300329	Upgrade	65	60	85	34	34	57	39	39	62	4.5	5.5	5.2
300330	Upgrade	65	60	85	32	30	55	34	34	58	2.4	3.8	2.5
300332	Upgrade	65	60	85	36	35	57	41	41	64	5.3	5.9	7.2
300333	Upgrade	65	60	85	35	35	58	40	40	63	4.8	5.5	5.2
300335	Upgrade	65	60	85	35	34	57	40	40	63	5.0	5.9	5.9
300339	Upgrade	65	60	85	31	29	55	31	31	55	-0.2	1.6	-0.6
300340	Upgrade	65	60	85	59	60	85	39	39	62	-20.7	-20.7	-22.7
300343	Upgrade	65	60	85	51	52	77	41	41	64	-10.5	-10.4	-12.1
300345	Upgrade	65	60	85	34	33	56	39	39	62	5.1	6.0	6.3
300349	Upgrade	65	60	85	35	34	58	39	39	63	3.8	5.0	4.3
300353	Upgrade	65	60	85	36	36	60	41	41	64	4.4	5.5	4.2
300354	Upgrade	65	60	85	40	39	62	46	46	68	6.4	6.8	6.6
300358	Upgrade	65	60	85	37	36	59	42	43	66	5.7	6.2	6.7
300359	Upgrade	65	60	85	34	33	56	39	39	63	5.2	6.1	6.4
300362	Upgrade	65	60	85	36	35	59	40	40	63	4.1	5.3	4.6
300370	Upgrade	65	60	85	38	38	61	44	44	66	6.1	6.4	4.8
300378	Upgrade	65	60	85	53	53	78	40	41	64	-12.6	-12.7	-14.2
300379	Upgrade	65	60	85	39	40	64	45	46	70	6.0	6.1	5.8
300382	Upgrade	65	60	85	40	40	62	46	46	68	5.8	6.4	6.0
300389	Upgrade	65	60	85	34	34	58	39	39	62	4.2	5.2	4.2
300390	Upgrade	65	60	85	33	32	57	35	35	59	2.0	3.4	1.2
300391	Upgrade	65	60	85	33	32	56	37	37	61	4.1	5.3	5.0
300392	Upgrade	65	60	85	34	33	58	36	36	60	2.5	3.9	2.1
300395	Upgrade	65	60	85	38	37	60	42	42	65	4.5	5.1	4.9

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax
300396	Upgrade	65	60	85	36	35	60	40	40	64	3.7	5.0	3.3
300406	Upgrade	65	60	85	59	60	85	42	42	65	-17.6	-17.5	-19.6
300407	Upgrade	65	60	85	33	32	56	36	36	60	3.3	4.7	3.7
300410	Upgrade	65	60	85	33	32	56	37	37	60	3.9	5.1	3.8
300412	Upgrade	65	60	85	38	37	61	43	44	67	5.8	6.3	6.7
300413	Upgrade	65	60	85	36	35	59	40	40	63	4.2	5.5	3.8
300416	Upgrade	65	60	85	52	52	76	41	41	64	-11.2	-11.1	-12.0
300420	Upgrade	65	60	85	36	35	59	41	41	64	4.3	5.4	5.0
300425	Upgrade	65	60	85	35	35	57	41	42	64	5.8	6.5	7.3
300426	Upgrade	65	60	85	35	34	59	39	40	62	4.4	5.5	3.8
300434	Upgrade	65	60	85	35	34	59	40	40	63	4.5	5.6	3.9
300436	Upgrade	65	60	85	52	52	77	41	41	65	-10.8	-10.9	-12.4
300445	Upgrade	65	60	85	34	33	58	36	36	60	2.3	3.7	2.2
300446	Upgrade	65	60	85	34	34	56	40	40	63	5.1	5.8	6.7
300447	Upgrade	65	60	85	40	40	63	45	45	69	5.5	5.7	5.5
300449	Upgrade	65	60	85	53	53	78	42	43	66	-10.4	-10.3	-12.3
300450	Upgrade	65	60	85	40	40	64	45	45	69	5.4	5.6	5.3
300451	Upgrade	65	60	85	39	39	63	44	44	68	4.4	4.8	4.3
300453	Upgrade	65	60	85	50	50	75	41	41	65	-9.1	-9.1	-10.8
300456	Upgrade	65	60	85	35	35	57	41	41	64	5.4	6.1	6.9
300457	Upgrade	65	60	85	34	33	58	35	36	59	1.4	3.0	1.1
300458	Upgrade	65	60	85	37	36	59	42	42	65	4.9	5.8	6.3
300460	Upgrade	65	60	85	35	34	58	39	39	62	4.4	5.4	4.3
300466	Upgrade	65	60	85	38	38	60	43	44	67	5.2	5.7	6.9
300468	Upgrade	65	60	85	37	37	59	42	43	66	5.4	6.3	6.9
300471	Upgrade	65	60	85	36	35	58	40	41	64	4.7	5.6	5.5
300473	Upgrade	65	60	85	51	52	76	41	42	65	-9.8	-9.8	-11.3
300474	Upgrade	65	60	85	34	33	58	38	39	62	4.1	5.2	4.1
300476	Upgrade	65	60	85	40	40	63	46	46	69	6.0	6.2	6.5
300478	Upgrade	65	60	85	45	45	68	51	51	73	5.9	6.1	5.0
300490	Upgrade	65	60	85	37	36	60	42	42	65	4.5	5.7	5.4
300491	Upgrade	65	60	85	50	50	75	41	42	65	-8.6	-8.5	-10.4
300493	Upgrade	65	60	85	35	35	59	40	40	64	4.6	5.6	4.9
300502	Upgrade	65	60	85	34	33	57	38	39	62	4.5	5.5	5.1
300503	Upgrade	65	60	85	34	34	58	39	39	62	4.3	5.3	3.6
300506	Upgrade	65	60	85	36	35	59	40	41	64	4.6	5.6	4.6
300508	Upgrade	65	60	85	38	38	62	44	44	68	5.7	6.1	6.2
300510	Upgrade	65	60	85	37	37	62	43	43	67	5.2	5.6	5.1
300513	Upgrade	65	60	85	35	34	60	39	39	63	4.3	5.4	3.0
300514	Upgrade	65	60	85	38	38	61	44	44	67	5.4	5.9	5.7
300517	Upgrade	65	60	85	33	32	57	35	36	59	2.1	3.7	2.0
300518	Upgrade	65	60	85	38	38	62	44	44	68	5.4	5.8	5.9
300522	Upgrade	65	60	85	51	51	76	44	44	67	-6.9	-6.8	-8.2
300528	Upgrade	65	60	85	35	34	58	40	40	63	5.0	5.9	4.8
300529	Upgrade	65	60	85	36	35	60	40	40	63	3.5	4.8	3.4
300534	Upgrade	65	60	85	36	35	59	40	40	63	4.0	5.2	4.3
300543	Upgrade	65	60	85	36	35	59	41	41	64	5.0	6.0	5.6
300545	Upgrade	65	60	85	37	37	60	43	43	65	5.2	6.1	5.3
300546	Upgrade	65	60	85	37	36	61	41	41	65	4.3	5.4	4.1
300558	Upgrade	65	60	85	38	38	62	44	44	68	5.8	6.3	6.3
300559	Upgrade	65	60	85	36	35	60	41	41	64	4.6	5.7	3.9



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
300560	Upgrade	65	60	85	34	33	57	38	38	61	3.9	5.1	4.4
300563	Upgrade	65	60	85	46	47	68	52	52	75	5.6	5.5	6.3
300568	Upgrade	65	60	85	49	50	75	44	44	67	-5.7	-5.7	-7.5
300572	Upgrade	65	60	85	34	33	58	37	38	60	3.5	4.8	2.5
300592	Upgrade	65	60	85	44	44	67	50	50	72	6.2	6.5	5.2
300596	Upgrade	65	60	85	35	35	58	41	41	64	5.7	6.4	6.2
300597	Upgrade	65	60	85	35	35	59	40	40	63	4.7	5.7	4.3
300598	Upgrade	65	60	85	34	33	58	37	37	60	2.7	4.1	2.4
300602	Upgrade	65	60	85	36	35	59	41	41	64	5.2	6.1	4.9
300605	Upgrade	65	60	85	33	32	57	37	37	60	3.6	4.9	3.7
300607	Upgrade	65	60	85	34	33	58	36	37	60	2.3	3.8	2.0
300609	Upgrade	65	60	85	34	33	58	37	37	61	3.2	4.5	2.1
300610	Upgrade	65	60	85	35	34	59	38	38	61	3.0	4.3	2.8
300611	Upgrade	65	60	85	39	39	62	44	44	68	4.9	5.4	5.6
300614	Upgrade	65	60	85	50	50	75	43	44	67	-6.7	-6.8	-8.5
300617	Upgrade	65	60	85	39	38	62	44	44	67	4.9	5.5	5.9
300620	Upgrade	65	60	85	37	36	59	42	42	65	4.6	5.6	5.6
300623	Upgrade	65	60	85	41	41	64	46	47	70	5.8	6.0	5.9
300635	Upgrade	65	60	85	36	35	58	40	41	64	4.6	5.6	5.7
300641	Upgrade	65	60	85	36	35	58	41	41	64	5.1	5.9	6.2
300646	Upgrade	65	60	85	36	36	59	41	41	65	4.6	5.7	5.6
300648	Upgrade	65	60	85	37	36	59	42	43	66	5.3	6.2	6.3
300662	Upgrade	65	60	85	40	40	64	45	45	69	5.2	5.4	5.7
300672	Upgrade	65	60	85	37	36	59	42	42	65	5.0	5.8	5.7
300673	Upgrade	65	60	85	37	36	60	42	42	65	4.6	5.7	5.1
300676	Upgrade	65	60	85	34	32	58	36	36	59	2.1	3.7	1.5
300687	Upgrade	65	60	85	37	36	59	42	42	65	4.8	5.8	6.2
300688	Upgrade	65	60	85	37	36	59	42	42	65	4.7	5.7	5.8
300692	Upgrade	65	60	85	36	36	60	41	41	64	4.4	5.4	3.7
300697	Upgrade	65	60	85	37	37	60	42	43	65	5.1	6.0	5.7
300710	Upgrade	65	60	85	37	37	60	43	43	66	5.4	5.9	6.2
300715	Upgrade	65	60	85	37	36	60	41	41	64	4.4	5.3	4.0
300722	Upgrade	65	60	85	35	34	58	40	40	63	4.3	5.4	4.9
300725	Upgrade	65	60	85	36	35	59	40	40	63	3.9	5.1	4.3
300730	Upgrade	65	60	85	40	39	62	45	45	69	5.6	6.0	6.5
300731	Upgrade	65	60	85	36	36	58	40	41	64	4.2	5.0	5.4
300732	Upgrade	65	60	85	37	36	59	42	43	66	5.7	6.6	7.0
300735	Upgrade	65	60	85	36	35	59	40	40	63	3.7	4.8	3.2
300736	Upgrade	65	60	85	36	35	59	40	40	62	4.1	5.1	3.8
300739	Upgrade	65	60	85	35	34	58	39	39	63	3.8	5.0	4.4
300742	Upgrade	65	60	85	38	38	60	43	44	66	5.1	5.8	6.1
300743	Upgrade	65	60	85	36	35	60	40	40	63	4.1	5.3	3.0
300744	Upgrade	65	60	85	37	36	60	40	41	64	3.8	4.9	3.6
300750	Upgrade	65	60	85	36	36	60	41	41	65	4.8	5.8	4.9
300766	Upgrade	65	60	85	50	50	73	55	55	78	5.5	5.5	5.2
300768	Upgrade	65	60	85	36	34	59	39	39	62	3.1	4.5	3.1
300769	Upgrade	65	60	85	39	39	63	45	45	69	5.6	5.9	5.8
300774	Upgrade	65	60	85	45	45	69	51	51	75	6.1	6.0	5.4
300776	Upgrade	65	60	85	35	34	59	38	38	62	2.9	4.2	2.6
300782	Upgrade	65	60	85	39	39	62	44	44	68	5.5	5.9	6.2
300784	Upgrade	65	60	85	38	38	61	43	43	67	5.1	5.6	6.0

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
300786	Upgrade	65	60	85	35	34	59	38	38	61	2.6	4.0	2.5
300789	Upgrade	65	60	85	35	34	57	40	40	63	4.9	5.8	5.8
300793	Upgrade	65	60	85	34	32	58	32	33	56	-1.4	0.5	-2.6
300794	Upgrade	65	60	85	35	34	57	40	40	63	5.0	5.9	6.2
300798	Upgrade	65	60	85	39	38	61	43	44	67	4.7	5.3	6.0
300800	Upgrade	65	60	85	35	34	59	37	37	61	2.1	3.7	1.5
300801	Upgrade	65	60	85	35	34	59	40	40	63	4.5	5.5	4.3
300806	Upgrade	65	60	85	44	45	68	50	51	73	6.0	5.9	5.3
300811	Upgrade	65	60	85	36	35	57	41	41	64	5.5	6.3	7.0
300812	Upgrade	65	60	85	32	31	56	34	34	58	1.9	3.4	1.6
300814	Upgrade	65	60	85	37	36	60	42	42	64	4.8	5.7	4.2
300815	Upgrade	65	60	85	39	38	61	44	44	68	5.4	6.0	6.5
300816	Upgrade	65	60	85	35	33	59	36	37	60	1.6	3.2	1.2
300818	Upgrade	65	60	85	39	38	61	44	44	68	5.2	5.8	6.7
300821	Upgrade	65	60	85	37	37	60	42	42	65	4.8	5.8	5.8
300824	Upgrade	65	60	85	47	47	69	53	53	75	5.7	5.6	6.3
300826	Upgrade	65	60	85	38	38	62	44	44	68	6.4	6.5	5.9
300828	Upgrade	65	60	85	35	35	58	40	41	64	5.1	6.0	6.2
300834	Upgrade	65	60	85	39	39	62	44	45	68	5.0	5.5	5.5
300839	Upgrade	65	60	85	32	30	56	33	34	57	1.6	3.3	0.8
300844	Upgrade	65	60	85	36	36	59	41	42	65	5.3	6.2	5.9
300845	Upgrade	65	60	85	36	35	59	41	41	64	4.6	5.6	5.6
300849	Upgrade	65	60	85	37	37	60	42	43	66	5.3	6.0	6.2
300851	Upgrade	65	60	85	37	36	59	42	43	66	5.7	6.4	7.3
300854	Upgrade	65	60	85	37	36	60	42	42	65	5.2	6.0	5.9
300857	Upgrade	65	60	85	39	39	63	43	43	67	4.3	4.6	4.4
300859	Upgrade	65	60	85	36	35	59	41	41	64	4.7	5.7	4.4
300860	Upgrade	65	60	85	50	50	75	56	56	80	5.5	5.5	4.5
300864	Upgrade	65	60	85	40	40	63	45	45	69	4.9	5.4	5.7
300875	Upgrade	65	60	85	39	39	61	44	44	67	5.0	5.5	6.0
300877	Upgrade	65	60	85	37	36	59	41	41	64	4.6	5.3	5.6
300882	Upgrade	65	60	85	37	36	58	42	43	66	5.8	6.5	7.4
300886	Upgrade	65	60	85	37	36	60	41	41	64	3.9	5.2	4.2
300891	Upgrade	65	60	85	39	39	63	44	44	68	4.9	5.3	4.7
300893	Upgrade	65	60	85	37	36	60	41	41	64	4.2	5.1	4.3
300895	Upgrade	65	60	85	35	35	59	40	40	63	4.2	5.2	4.0
300902	Upgrade	65	60	85	37	36	60	41	42	64	4.6	5.8	4.1
300906	Upgrade	65	60	85	37	36	61	41	42	65	4.4	5.5	3.8
300907	Upgrade	65	60	85	51	51	74	56	56	80	5.6	5.5	5.6
300909	Upgrade	65	60	85	36	35	60	40	40	63	3.9	5.1	3.8
300912	Upgrade	65	60	85	40	40	63	44	44	68	4.1	4.7	4.5
300913	Upgrade	65	60	85	38	37	60	43	43	66	4.9	5.8	6.1
300917	Upgrade	65	60	85	37	37	60	42	43	66	5.4	5.8	5.9
300922	Upgrade	65	60	85	34	33	57	38	38	61	3.7	4.9	3.9
300923	Upgrade	65	60	85	50	51	75	56	56	80	5.7	5.6	4.8
300930	Upgrade	65	60	85	36	35	59	40	40	64	3.8	4.8	4.3
300932	Upgrade	65	60	85	36	35	60	40	40	63	3.8	5.0	3.8
300936	Upgrade	65	60	85	36	35	59	39	39	63	3.1	4.4	3.1
300938	Upgrade	65	60	85	35	34	59	39	39	62	3.3	4.7	3.1
300940	Upgrade	65	60	85	35	35	59	40	40	63	4.2	5.2	3.3
300942	Upgrade	65	60	85	37	36	59	42	42	65	5.2	6.2	6.1



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
300945	Upgrade	65	60	85	39	38	61	43	43	67	4.4	5.0	5.4
300955	Upgrade	65	60	85	37	36	61	41	42	65	4.4	5.6	3.8
300962	Upgrade	65	60	85	39	39	62	44	44	68	4.7	5.4	5.8
300967	Upgrade	65	60	85	37	36	60	41	42	65	4.4	5.6	4.7
300968	Upgrade	65	60	85	36	35	59	39	39	63	3.1	4.4	3.1
300969	Upgrade	65	60	85	36	36	59	41	41	64	4.7	5.8	4.7
300970	Upgrade	65	60	85	37	36	60	41	41	65	4.3	5.3	5.0
300972	Upgrade	65	60	85	34	33	57	39	39	62	4.6	5.7	4.6
300974	Upgrade	65	60	85	38	38	61	43	44	67	5.4	6.0	6.6
300980	Upgrade	65	60	85	37	36	60	42	42	65	4.7	5.8	5.5
300984	Upgrade	65	60	85	38	37	60	43	43	66	4.9	5.8	5.9
300991	Upgrade	65	60	85	39	39	62	44	44	67	4.6	5.2	5.4
300997	Upgrade	65	60	85	37	36	60	42	42	65	5.3	6.2	5.4
300998	Upgrade	65	60	85	33	32	57	36	37	60	3.3	4.5	3.4
301001	Upgrade	65	60	85	38	37	61	42	42	65	3.9	5.0	3.5
301003	Upgrade	65	60	85	33	32	57	36	37	60	3.2	4.5	3.3
301012	Upgrade	65	60	85	34	33	58	37	37	60	2.9	4.3	1.6
301015	Upgrade	65	60	85	37	37	60	42	43	66	5.3	6.3	5.6
301019	Upgrade	65	60	85	37	36	60	40	41	63	3.8	4.7	3.3
301020	Upgrade	65	60	85	38	37	60	43	43	66	4.8	5.8	5.8
301021	Upgrade	65	60	85	37	37	59	42	43	66	5.2	5.8	6.9
301025	Upgrade	65	60	85	37	36	59	42	42	65	5.3	6.1	6.2
301026	Upgrade	65	60	85	37	36	60	41	41	64	4.1	5.3	4.4
301031	Upgrade	65	60	85	39	38	62	44	44	68	5.2	5.7	5.8
301033	Upgrade	65	60	85	33	32	58	35	35	58	1.5	3.2	0.7
301034	Upgrade	65	60	85	37	36	61	40	40	64	3.0	4.5	2.5
301038	Upgrade	65	60	85	41	41	64	45	46	69	4.7	5.1	5.1
301041	Upgrade	65	60	85	49	50	74	35	36	59	-14.1	-14.1	-14.8
301043	Upgrade	65	60	85	35	35	59	40	40	64	4.5	5.1	5.1
301046	Upgrade	65	60	85	37	37	59	42	42	65	4.8	5.4	5.6
301047	Upgrade	65	60	85	32	31	58	35	35	58	2.8	4.2	-0.2
301048	Upgrade	65	60	85	34	34	57	40	40	62	5.2	6.0	4.9
301049	Upgrade	65	60	85	52	52	77	57	58	81	5.6	5.6	4.8
301053	Upgrade	65	60	85	38	37	60	43	43	66	4.8	5.7	6.1
301057	Upgrade	65	60	85	37	36	59	42	42	65	4.7	5.7	5.9
301059	Upgrade	65	60	85	37	37	59	42	43	65	5.1	6.0	6.3
301060	Upgrade	65	60	85	37	37	59	42	43	65	5.4	5.8	6.2
301067	Upgrade	65	60	85	49	49	73	42	42	65	-7.4	-7.4	-7.5
301069	Upgrade	65	60	85	40	40	63	44	44	68	4.4	4.9	5.1
301070	Upgrade	65	60	85	36	35	59	40	40	63	3.9	5.1	4.1
301072	Upgrade	65	60	85	26	25	52	29	29	53	3.0	4.4	0.7
301073	Upgrade	65	60	85	39	38	62	43	44	67	4.7	5.1	4.7
301074	Upgrade	65	60	85	37	36	60	42	42	66	4.8	5.8	5.7
301077	Upgrade	65	60	85	39	39	63	45	45	69	5.6	5.9	5.8
301079	Upgrade	65	60	85	34	33	56	39	39	62	4.9	5.7	5.4
301094	Upgrade	65	60	85	37	36	60	41	42	65	4.0	5.2	4.6
301097	Upgrade	65	60	85	48	49	71	41	41	64	-7.8	-7.7	-7.6
301100	Upgrade	65	60	85	36	36	59	41	41	64	4.5	5.2	4.2
301107	Upgrade	65	60	85	37	37	61	42	42	65	4.9	5.0	4.2
301110	Upgrade	65	60	85	38	37	60	43	43	67	5.4	6.1	6.8
301126	Upgrade	65	60	85	39	39	62	44	44	68	4.9	5.4	5.7

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
301128	Upgrade	65	60	85	37	36	60	41	41	65	4.4	5.5	4.6
301132	Upgrade	65	60	85	36	36	59	40	40	64	3.7	4.9	4.6
301134	Upgrade	65	60	85	39	39	63	43	44	67	4.2	4.7	4.5
301138	Upgrade	65	60	85	36	35	59	40	41	64	4.9	5.9	5.1
301140	Upgrade	65	60	85	37	37	60	42	42	65	5.2	5.4	5.0
301141	Upgrade	65	60	85	36	35	59	40	40	64	3.8	4.9	4.3
301142	Upgrade	65	60	85	37	37	59	41	42	64	4.3	4.9	5.2
301144	Upgrade	65	60	85	36	35	59	41	41	64	4.6	5.7	5.8
301149	Upgrade	65	60	85	36	35	59	39	39	62	3.0	4.3	3.2
301151	Upgrade	65	60	85	42	42	64	49	49	71	6.7	7.0	7.7
301152	Upgrade	65	60	85	38	38	62	43	43	66	4.5	5.7	4.8
301158	Upgrade	65	60	85	36	34	59	38	39	62	2.8	4.2	3.0
301165	Upgrade	65	60	85	43	44	66	50	50	74	6.7	6.6	7.5
301166	Upgrade	65	60	85	39	39	61	44	44	67	5.2	5.5	6.0
301167	Upgrade	65	60	85	37	36	60	42	42	66	5.2	6.2	5.8
301172	Upgrade	65	60	85	38	37	60	43	43	66	4.9	5.8	6.0
301173	Upgrade	65	60	85	50	50	72	37	37	60	-12.7	-12.6	-11.4
301176	Upgrade	65	60	85	37	37	61	42	42	65	4.2	4.7	4.4
301177	Upgrade	65	60	85	38	37	60	42	43	66	4.5	5.6	5.3
301178	Upgrade	65	60	85	35	35	58	40	41	64	5.0	5.3	5.6
301179	Upgrade	65	60	85	39	38	62	43	43	67	4.0	4.7	4.9
301180	Upgrade	65	60	85	35	34	59	37	38	61	2.1	3.7	2.1
301184	Upgrade	65	60	85	33	32	57	36	37	60	3.0	4.4	2.6
301186	Upgrade	65	60	85	37	36	60	42	43	66	5.2	6.1	6.1
301187	Upgrade	65	60	85	36	35	60	39	39	62	3.0	4.5	2.7
301193	Upgrade	65	60	85	38	38	60	43	43	66	5.1	5.6	5.9
301199	Upgrade	65	60	85	37	37	60	43	43	66	5.4	6.3	6.4
301202	Upgrade	65	60	85	33	31	58	34	34	57	1.4	3.0	-0.7
301204	Upgrade	65	60	85	39	39	62	44	44	68	4.9	5.4	5.8
301208	Upgrade	65	60	85	38	37	62	41	42	65	3.7	5.0	2.7
301209	Upgrade	65	60	85	27	26	50	32	32	55	4.9	5.9	5.3
301220	Upgrade	65	60	85	30	29	56	32	32	55	1.7	3.2	-1.2
301222	Upgrade	65	60	85	38	37	61	41	41	65	3.4	4.2	3.2
301223	Upgrade	65	60	85	37	36	60	42	43	66	5.2	6.2	5.6
301225	Upgrade	65	60	85	38	38	62	43	43	66	4.9	5.1	4.9
301226	Upgrade	65	60	85	45	45	67	51	51	73	6.1	6.0	6.3
301227	Upgrade	65	60	85	27	26	51	31	31	55	4.3	5.4	4.1
301229	Upgrade	65	60	85	34	33	59	33	34	57	-1.0	0.9	-2.2
301233	Upgrade	65	60	85	38	38	61	43	43	66	4.8	5.3	5.8
301235	Upgrade	65	60	85	30	29	55	34	34	57	3.5	4.7	1.5
301237	Upgrade	65	60	85	38	37	61	42	42	64	3.9	4.8	2.4
301240	Upgrade	65	60	85	37	37	59	42	42	65	4.4	5.0	6.0
301250	Upgrade	65	60	85	29	27	53	30	30	54	1.4	3.0	0.7
301252	Upgrade	65	60	85	49	49	72	32	32	55	-17.0	-16.9	-16.4
301255	Upgrade	65	60	85	34	33	58	36	36	60	2.1	3.7	1.2
301258	Upgrade	65	60	85	29	28	54	32	32	55	3.0	4.3	1.4
301260	Upgrade	65	60	85	42	42	64	49	49	72	6.7	6.9	7.2
301263	Upgrade	65	60	85	39	39	62	44	44	68	5.0	5.4	5.9
301269	Upgrade	65	60	85	38	37	62	42	43	66	4.1	5.4	4.2
301280	Upgrade	65	60	85	36	35	60	39	40	63	3.7	4.5	3.2
301281	Upgrade	65	60	85	37	36	60	42	42	66	5.5	6.1	5.7



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
301282	Upgrade	65	60	85	31	30	57	33	33	56	1.8	3.3	-1.2
301283	Upgrade	65	60	85	33	32	58	33	33	57	-0.3	1.6	-1.1
301284	Upgrade	65	60	85	38	37	62	43	43	66	4.4	5.6	4.0
301293	Upgrade	65	60	85	36	36	60	41	42	64	5.1	6.0	4.8
301294	Upgrade	65	60	85	33	32	58	35	35	58	1.4	3.1	-0.3
301297	Upgrade	65	60	85	27	26	51	32	32	55	4.3	5.4	4.4
301298	Upgrade	65	60	85	39	39	62	43	43	67	4.0	4.6	4.7
301300	Upgrade	65	60	85	32	31	59	35	35	58	2.6	4.1	-0.3
301301	Upgrade	65	60	85	24	24	44	30	31	54	6.6	7.1	9.2
301302	Upgrade	65	60	85	38	37	61	42	42	65	4.2	5.3	4.6
301308	Upgrade	65	60	85	38	37	61	43	43	66	4.9	5.9	5.0
301309	Upgrade	65	60	85	31	30	57	33	34	57	2.1	3.6	-0.2
301310	Upgrade	65	60	85	30	29	55	33	33	57	2.9	4.2	1.5
301313	Upgrade	65	60	85	30	28	54	33	33	56	3.1	4.5	1.8
301314	Upgrade	65	60	85	37	37	60	42	42	65	4.3	5.0	5.4
301317	Upgrade	65	60	85	36	36	60	41	42	65	4.9	5.3	4.7
301318	Upgrade	65	60	85	30	28	54	32	33	56	2.8	4.3	1.4
301320	Upgrade	65	60	85	31	30	56	33	34	56	2.5	4.0	0.3
301321	Upgrade	65	60	85	37	37	60	42	42	65	4.2	5.1	4.4
301324	Upgrade	65	60	85	40	40	63	45	45	69	5.1	5.5	5.9
301326	Upgrade	65	60	85	29	28	55	31	31	54	1.9	3.4	-0.6
301329	Upgrade	65	60	85	38	38	61	43	44	67	4.9	5.4	5.7
301335	Upgrade	65	60	85	33	32	59	35	35	59	2.1	3.7	0.1
301336	Upgrade	65	60	85	42	41	64	48	48	70	6.2	6.5	6.4
301337	Upgrade	65	60	85	50	50	72	39	40	63	-10.1	-10.0	-8.8
301338	Upgrade	65	60	85	34	34	57	39	39	62	4.2	4.9	4.8
301344	Upgrade	65	60	85	32	31	57	35	35	58	3.0	4.5	0.4
301347	Upgrade	65	60	85	29	28	54	33	33	56	3.9	5.1	2.3
301348	Upgrade	65	60	85	27	26	51	32	32	55	4.9	5.8	4.0
301349	Upgrade	65	60	85	33	31	58	34	35	58	1.8	3.5	-0.3
301353	Upgrade	65	60	85	33	31	57	33	34	57	0.5	2.2	-0.3
301357	Upgrade	65	60	85	34	32	58	34	34	58	0.3	2.1	0.0
301359	Upgrade	65	60	85	29	28	56	32	32	55	2.6	4.0	-0.5
301365	Upgrade	65	60	85	36	36	59	41	42	65	5.0	6.1	5.6
301370	Upgrade	65	60	85	37	36	59	42	42	66	5.3	6.1	6.7
301374	Upgrade	65	60	85	39	38	62	44	44	67	4.9	6.0	5.2
301376	Upgrade	65	60	85	38	38	62	41	41	64	2.9	3.9	1.8
301378	Upgrade	65	60	85	28	27	53	32	32	56	3.7	5.0	2.7
301379	Upgrade	65	60	85	37	36	59	41	41	64	4.4	5.1	4.7
301380	Upgrade	65	60	85	39	39	63	45	45	69	5.8	6.0	5.8
301384	Upgrade	65	60	85	36	36	60	41	42	65	5.9	5.9	5.0
301385	Upgrade	65	60	85	31	30	56	34	34	57	3.0	4.3	0.8
301386	Upgrade	65	60	85	33	31	58	35	35	58	1.8	3.5	-0.4
301388	Upgrade	65	60	85	39	39	62	44	45	68	4.9	5.9	5.6
301389	Upgrade	65	60	85	36	36	59	42	42	65	5.1	6.0	6.1
301390	Upgrade	65	60	85	33	31	57	34	34	57	1.1	2.8	0.0
301393	Upgrade	65	60	85	37	37	61	43	43	66	5.1	6.1	5.3
301399	Upgrade	65	60	85	38	37	61	42	43	66	4.3	5.4	4.6
301402	Upgrade	65	60	85	46	46	70	43	43	66	-3.2	-3.2	-4.0
301403	Upgrade	65	60	85	37	36	61	42	42	65	4.5	5.6	4.1
301404	Upgrade	65	60	85	39	39	63	45	45	69	5.5	5.8	6.0

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
301406	Upgrade	65	60	85	34	34	57	39	39	63	4.8	5.2	5.2
301409	Upgrade	65	60	85	28	27	53	32	32	55	4.2	5.3	2.1
301413	Upgrade	65	60	85	34	32	58	36	36	59	2.4	4.0	1.5
301414	Upgrade	65	60	85	42	42	64	49	49	71	6.5	6.8	7.4
301418	Upgrade	65	60	85	48	48	71	43	44	67	-4.4	-4.4	-4.3
301419	Upgrade	65	60	85	39	39	63	45	45	69	5.8	6.1	5.9
301421	Upgrade	65	60	85	37	36	61	41	41	64	4.1	5.0	3.8
301423	Upgrade	65	60	85	30	29	56	32	32	55	1.5	3.1	-0.5
301426	Upgrade	65	60	85	49	50	72	43	44	67	-6.2	-6.2	-5.0
301429	Upgrade	65	60	85	30	29	54	32	32	56	1.8	3.4	1.6
301431	Upgrade	65	60	85	38	37	60	42	42	65	3.8	4.6	4.2
301433	Upgrade	65	60	85	34	32	59	34	34	58	0.3	2.1	-1.0
301436	Upgrade	65	60	85	42	42	64	48	48	70	6.2	6.4	6.4
301438	Upgrade	65	60	85	33	32	57	34	34	57	0.9	2.6	0.2
301439	Upgrade	65	60	85	36	36	58	41	42	64	5.0	5.9	6.0
301440	Upgrade	65	60	85	39	38	63	44	44	67	4.8	5.9	4.9
301444	Upgrade	65	60	85	37	37	61	42	42	66	4.7	5.7	4.8
301445	Upgrade	65	60	85	48	49	71	35	35	59	-13.1	-13.1	-12.5
301449	Upgrade	65	60	85	39	39	62	44	44	68	4.9	5.3	5.3
301452	Upgrade	65	60	85	34	34	58	39	40	63	5.6	5.7	5.2
301455	Upgrade	65	60	85	41	41	64	46	46	70	5.4	5.7	5.7
301456	Upgrade	65	60	85	38	37	61	43	44	67	5.3	6.2	6.1
301457	Upgrade	65	60	85	39	38	62	44	44	67	5.0	5.9	5.2
301458	Upgrade	65	60	85	32	31	57	33	34	56	1.1	2.8	-0.4
301459	Upgrade	65	60	85	37	37	61	43	43	67	5.6	5.8	6.0
301460	Upgrade	65	60	85	37	36	60	41	41	65	4.3	4.8	4.8
301465	Upgrade	65	60	85	37	37	60	42	42	66	4.7	5.6	5.4
301472	Upgrade	65	60	85	29	28	54	31	32	55	2.5	3.9	0.5
301473	Upgrade	65	60	85	50	50	73	40	40	63	-10.0	-9.9	-9.7
301475	Upgrade	65	60	85	32	30	56	34	34	56	2.0	3.6	0.4
301479	Upgrade	65	60	85	49	50	73	45	46	69	-4.1	-4.1	-4.4
301480	Upgrade	65	60	85	39	39	62	43	43	66	3.4	4.2	4.1
301482	Upgrade	65	60	85	33	32	58	36	36	59	2.5	3.9	1.5
301485	Upgrade	65	60	85	36	35	59	40	41	63	4.5	5.3	4.3
301486	Upgrade	65	60	85	36	35	60	41	41	64	4.4	5.5	3.6
301489	Upgrade	65	60	85	28	27	53	32	32	55	4.0	5.2	2.5
301494	Upgrade	65	60	85	29	27	54	32	32	55	3.0	4.4	1.0
301495	Upgrade	65	60	85	31	30	57	34	34	56	2.4	3.9	-0.7
301496	Upgrade	65	60	85	35	35	59	41	41	64	5.3	5.6	5.2
301500	Upgrade	65	60	85	37	37	61	42	43	66	5.2	6.0	5.3
301502	Upgrade	65	60	85	30	29	56	32	32	55	1.7	3.3	-1.3
301504	Upgrade	65	60	85	40	40	64	46	46	70	6.0	6.2	6.0
301506	Upgrade	65	60	85	35	34	58	39	39	63	4.3	4.9	4.7
301507	Upgrade	65	60	85	36	35	58	41	41	64	4.8	5.8	5.9
301513	Upgrade	65	60	85	36	36	60	42	42	66	5.7	5.9	5.4
301516	Upgrade	65	60	85	35	35	60	39	39	61	3.2	4.2	1.9
301517	Upgrade	65	60	85	30	29	54	35	35	58	5.0	5.9	3.7
301522	Upgrade	65	60	85	36	36	58	41	41	63	4.6	5.2	5.8
301523	Upgrade	65	60	85	31	30	55	33	33	56	1.7	3.3	0.4
301526	Upgrade	65	60	85	39	38	62	43	44	67	4.8	5.9	5.0
301532	Upgrade	65	60	85	33	32	58	36	37	59	3.6	4.9	1.5



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
301533	Upgrade	65	60	85	38	37	62	42	43	66	4.3	5.4	3.7
301535	Upgrade	65	60	85	38	37	61	43	44	67	5.2	6.3	5.5
301537	Upgrade	65	60	85	30	28	55	33	33	56	3.4	4.8	1.6
301540	Upgrade	65	60	85	31	30	55	34	34	57	2.8	4.2	1.6
301543	Upgrade	65	60	85	38	37	61	41	41	64	2.9	3.8	3.4
301545	Upgrade	65	60	85	28	27	53	33	33	56	4.9	5.9	2.9
301546	Upgrade	65	60	85	48	49	73	43	43	66	-5.7	-5.7	-6.5
301550	Upgrade	65	60	85	36	36	59	42	42	65	5.7	6.0	6.1
301552	Upgrade	65	60	85	36	35	60	41	41	64	4.9	5.9	4.0
301555	Upgrade	65	60	85	33	32	58	36	36	59	2.6	4.1	1.0
301556	Upgrade	65	60	85	38	37	61	42	43	66	4.5	5.5	4.8
301560	Upgrade	65	60	85	40	40	63	46	46	69	6.0	6.1	5.9
301561	Upgrade	65	60	85	39	39	63	45	45	69	5.6	5.7	5.4
301562	Upgrade	65	60	85	33	31	57	35	35	58	1.9	3.4	0.5
301563	Upgrade	65	60	85	33	32	57	36	36	59	2.6	4.1	2.3
301565	Upgrade	65	60	85	30	29	56	34	34	58	3.4	4.7	1.8
301568	Upgrade	65	60	85	33	32	57	36	36	59	2.8	4.2	2.2
301573	Upgrade	65	60	85	37	36	59	41	42	65	4.6	5.4	6.2
301576	Upgrade	65	60	85	38	38	63	44	44	68	5.9	5.9	5.3
301578	Upgrade	65	60	85	40	40	62	45	45	69	5.4	5.7	6.3
301580	Upgrade	65	60	85	37	37	60	43	43	66	5.4	6.2	5.7
301584	Upgrade	65	60	85	33	31	58	34	34	57	1.3	3.0	-0.4
301592	Upgrade	65	60	85	36	36	61	39	40	62	2.9	3.9	1.3
301594	Upgrade	65	60	85	31	30	55	34	34	57	3.4	4.8	1.9
301596	Upgrade	65	60	85	39	38	62	44	44	67	5.1	6.1	4.8
301599	Upgrade	65	60	85	37	36	61	42	42	65	4.2	5.3	4.0
301604	Upgrade	65	60	85	31	30	55	35	35	58	3.7	5.0	3.5
301608	Upgrade	65	60	85	40	40	64	46	46	70	5.7	6.0	5.8
301609	Upgrade	65	60	85	37	36	61	39	39	62	2.5	3.9	1.8
301612	Upgrade	65	60	85	37	37	62	42	43	66	5.1	5.2	4.1
301614	Upgrade	65	60	85	37	37	61	42	42	65	4.3	5.5	4.1
301616	Upgrade	65	60	85	38	37	61	41	42	65	3.7	5.0	3.7
301617	Upgrade	65	60	85	39	38	63	43	44	67	4.2	5.5	3.9
301620	Upgrade	65	60	85	41	41	66	46	46	70	5.5	5.5	4.6
301622	Upgrade	65	60	85	47	47	70	45	45	68	-2.2	-2.2	-1.8
301623	Upgrade	65	60	85	31	30	56	33	33	57	1.4	3.0	0.1
301624	Upgrade	65	60	85	38	38	62	43	43	67	4.7	5.2	5.0
301626	Upgrade	65	60	85	38	38	62	43	44	67	5.3	5.6	5.1
301629	Upgrade	65	60	85	37	36	59	42	42	65	4.9	5.9	6.3
301634	Upgrade	65	60	85	31	30	56	34	35	57	3.0	4.5	1.8
301636	Upgrade	65	60	85	38	38	61	44	44	67	5.6	5.9	6.4
301638	Upgrade	65	60	85	37	37	60	42	42	66	4.7	5.7	5.8
301639	Upgrade	65	60	85	33	32	57	34	34	57	0.7	2.5	-0.3
301643	Upgrade	65	60	85	38	37	61	43	43	66	4.5	5.5	4.8
301645	Upgrade	65	60	85	35	33	59	37	37	61	2.5	4.1	1.4
301646	Upgrade	65	60	85	37	36	61	41	41	64	4.0	5.2	3.1
301647	Upgrade	65	60	85	33	32	59	35	35	58	1.8	3.4	-0.1
301649	Upgrade	65	60	85	32	31	58	35	35	58	2.8	4.1	0.6
301650	Upgrade	65	60	85	40	40	63	46	46	69	6.0	6.3	6.2
301654	Upgrade	65	60	85	30	29	55	34	34	57	4.1	5.2	2.0
301655	Upgrade	65	60	85	37	36	61	41	41	64	3.9	5.0	3.6

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
301659	Upgrade	65	60	85	34	33	58	36	37	59	2.5	4.0	1.6
301661	Upgrade	65	60	85	38	37	63	42	42	64	3.4	4.6	1.7
301662	Upgrade	65	60	85	37	36	60	41	41	65	3.6	4.4	4.6
301666	Upgrade	65	60	85	35	34	59	38	38	61	2.9	4.4	1.7
301669	Upgrade	65	60	85	47	48	70	45	46	69	-2.1	-2.1	-1.5
301672	Upgrade	65	60	85	39	39	63	44	45	68	5.1	6.2	4.9
301673	Upgrade	65	60	85	35	34	59	39	40	62	4.0	5.1	3.0
301676	Upgrade	65	60	85	39	39	62	45	45	68	5.5	6.5	6.0
301677	Upgrade	65	60	85	38	38	62	44	44	68	5.4	5.9	5.8
301681	Upgrade	65	60	85	34	33	59	37	37	60	2.9	4.4	0.9
301682	Upgrade	65	60	85	40	40	63	46	46	69	6.3	6.4	6.1
301685	Upgrade	65	60	85	31	30	56	33	34	57	2.6	4.2	0.7
301686	Upgrade	65	60	85	39	38	64	43	43	66	3.3	4.8	2.1
301690	Upgrade	65	60	85	31	30	57	32	33	56	1.4	3.1	-0.5
301691	Upgrade	65	60	85	37	36	62	40	40	63	2.9	4.3	1.5
301692	Upgrade	65	60	85	40	39	64	44	44	67	4.3	5.4	3.5
301693	Upgrade	65	60	85	42	42	66	47	47	71	5.0	5.1	4.8
301694	Upgrade	65	60	85	38	38	62	41	41	64	2.3	3.3	2.0
301695	Upgrade	65	60	85	45	45	69	41	42	65	-3.5	-3.5	-4.3
301697	Upgrade	65	60	85	40	40	64	46	46	70	5.9	6.1	5.9
301698	Upgrade	65	60	85	33	32	57	36	36	59	2.5	4.0	1.6
301700	Upgrade	65	60	85	40	40	64	46	46	69	5.8	6.0	5.8
301701	Upgrade	65	60	85	38	37	61	42	42	65	3.6	4.9	4.0
301703	Upgrade	65	60	85	34	33	58	36	36	59	1.8	3.4	1.3
301707	Upgrade	65	60	85	37	37	61	42	42	66	4.7	5.6	4.6
301708	Upgrade	65	60	85	38	37	60	43	43	67	5.6	6.2	6.5
301710	Upgrade	65	60	85	30	29	55	33	34	57	3.7	4.9	2.0
301717	Upgrade	65	60	85	37	36	59	43	43	66	5.6	6.4	6.7
301722	Upgrade	65	60	85	34	32	58	36	36	59	2.3	3.9	0.8
301724	Upgrade	65	60	85	37	36	61	41	42	65	4.0	5.1	3.7
301727	Upgrade	65	60	85	40	39	63	44	45	68	4.7	5.8	4.7
301728	Upgrade	65	60	85	40	40	63	46	46	70	6.1	6.3	6.5
301732	Upgrade	65	60	85	39	39	63	44	44	68	4.7	5.1	4.4
301733	Upgrade	65	60	85	40	40	64	46	46	69	5.8	5.9	5.7
301736	Upgrade	65	60	85	25	25	49	32	32	56	6.9	7.4	7.1
301738	Upgrade	65	60	85	34	34	56	40	40	63	6.1	6.3	6.4
301744	Upgrade	65	60	85	46	46	71	43	43	67	-3.1	-3.1	-4.5
301748	Upgrade	65	60	85	38	37	61	42	42	65	3.8	4.6	4.2
301750	Upgrade	65	60	85	39	39	63	45	45	69	5.8	6.6	5.8
301753	Upgrade	65	60	85	39	38	63	42	43	66	3.0	4.5	3.1
301754	Upgrade	65	60	85	41	41	64	47	47	71	5.8	6.1	6.3
301755	Upgrade	65	60	85	37	37	60	41	41	65	3.8	4.2	4.7
301759	Upgrade	65	60	85	39	38	62	44	44	67	5.2	6.1	5.9
301760	Upgrade	65	60	85	33	32	58	35	35	58	2.1	3.7	-0.4
301774	Upgrade	65	60	85	34	33	58	36	36	59	2.0	3.6	1.0
301777	Upgrade	65	60	85	38	37	61	42	42	65	4.3	5.5	4.6
301779	Upgrade	65	60	85	40	39	63	45	45	69	5.2	6.2	6.0
301780	Upgrade	65	60	85	38	37	62	42	42	65	4.3	5.5	3.3
301783	Upgrade	65	60	85	39	38	63	42	43	65	3.4	4.7	2.2
301784	Upgrade	65	60	85	41	42	66	47	47	71	5.7	5.9	5.4
301788	Upgrade	65	60	85	42	42	65	47	47	71	5.3	5.5	5.5



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
301789	Upgrade	65	60	85	38	37	61	42	43	66	4.5	5.5	4.7
301792	Upgrade	65	60	85	40	40	64	46	46	70	5.5	5.9	5.9
301793	Upgrade	65	60	85	37	36	59	41	41	65	4.3	5.4	5.2
301795	Upgrade	65	60	85	38	37	62	41	41	64	3.4	4.7	2.5
301804	Upgrade	65	60	85	33	32	57	37	37	60	4.2	5.4	2.7
301806	Upgrade	65	60	85	38	36	61	40	41	63	2.7	4.2	2.3
301807	Upgrade	65	60	85	34	33	58	36	36	59	1.7	3.4	0.9
301808	Upgrade	65	60	85	38	37	61	43	43	66	4.9	5.7	5.3
301809	Upgrade	65	60	85	39	39	63	45	45	68	5.5	6.3	5.2
301810	Upgrade	65	60	85	39	39	61	44	45	68	5.2	5.8	6.6
301811	Upgrade	65	60	85	31	31	56	36	36	59	4.4	5.5	2.8
301815	Upgrade	65	60	85	37	36	59	41	42	65	4.5	5.5	5.3
301817	Upgrade	65	60	85	47	47	72	43	43	66	-4.3	-4.3	-5.5
301821	Upgrade	65	60	85	38	37	62	41	42	63	3.8	4.8	1.7
301822	Upgrade	65	60	85	38	37	60	43	43	67	5.2	6.1	6.7
301836	Upgrade	65	60	85	35	34	60	37	38	61	2.2	3.8	0.8
301837	Upgrade	65	60	85	40	41	64	46	46	70	5.8	5.8	5.5
301838	Upgrade	65	60	85	44	45	69	44	44	67	-0.7	-0.6	-2.3
301839	Upgrade	65	60	85	36	34	60	37	38	61	1.7	3.4	1.0
301840	Upgrade	65	60	85	39	39	61	44	44	67	5.0	5.3	5.9
301842	Upgrade	65	60	85	35	34	59	38	39	61	3.1	4.5	2.5
301843	Upgrade	65	60	85	28	27	50	34	34	57	6.3	6.9	7.2
301845	Upgrade	65	60	85	37	36	61	39	39	62	1.9	3.5	1.4
301847	Upgrade	65	60	85	32	30	58	34	34	57	2.0	3.6	-0.9
301855	Upgrade	65	60	85	39	38	62	44	44	67	4.8	5.9	5.3
301856	Upgrade	65	60	85	39	39	63	44	44	67	4.1	5.3	4.0
301857	Upgrade	65	60	85	34	33	59	35	36	58	1.4	2.7	-1.2
301859	Upgrade	65	60	85	38	37	62	42	43	65	3.9	5.2	3.9
301860	Upgrade	65	60	85	38	37	61	42	42	65	4.5	5.4	4.0
301862	Upgrade	65	60	85	36	35	60	40	40	64	4.0	5.3	4.1
301865	Upgrade	65	60	85	38	38	61	44	44	68	6.1	6.5	7.1
301866	Upgrade	65	60	85	37	36	62	41	41	64	3.6	5.0	2.6
301867	Upgrade	65	60	85	38	37	62	42	42	65	3.9	5.1	3.1
301870	Upgrade	65	60	85	40	39	63	45	45	69	5.0	6.0	5.8
301871	Upgrade	65	60	85	47	48	71	38	39	62	-9.2	-9.1	-9.0
301874	Upgrade	65	60	85	38	37	62	42	42	65	4.2	5.2	2.7
301877	Upgrade	65	60	85	41	41	65	45	45	69	4.3	4.8	4.2
301878	Upgrade	65	60	85	36	35	61	39	39	62	2.7	4.2	1.2
301885	Upgrade	65	60	85	34	33	58	38	38	60	3.9	5.2	2.1
301892	Upgrade	65	60	85	38	37	62	43	43	66	4.4	5.4	4.5
301893	Upgrade	65	60	85	47	47	70	33	33	56	-14.0	-14.0	-13.6
301894	Upgrade	65	60	85	38	37	62	42	43	66	4.2	5.4	3.6
301899	Upgrade	65	60	85	39	38	62	43	43	67	4.1	5.3	5.1
301901	Upgrade	65	60	85	40	39	63	45	45	68	4.7	5.8	4.5
301911	Upgrade	65	60	85	35	34	58	39	39	63	4.3	5.5	4.3
301912	Upgrade	65	60	85	35	34	60	38	38	60	2.7	4.2	0.0
301918	Upgrade	65	60	85	43	43	67	31	31	54	-12.0	-12.0	-13.1
301919	Upgrade	65	60	85	46	46	71	41	41	64	-5.1	-5.1	-6.5
301924	Upgrade	65	60	85	40	40	64	45	45	69	5.3	5.5	4.9
301928	Upgrade	65	60	85	42	42	66	48	48	71	5.2	5.5	5.8
301929	Upgrade	65	60	85	41	41	65	47	47	70	5.9	6.1	5.7

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
301931	Upgrade	65	60	85	35	34	58	39	39	62	3.9	5.2	3.6
301932	Upgrade	65	60	85	40	39	64	43	43	65	3.1	4.3	1.2
301933	Upgrade	65	60	85	41	41	65	46	46	69	5.1	5.2	4.6
301934	Upgrade	65	60	85	35	34	58	39	39	63	3.8	5.2	4.2
301938	Upgrade	65	60	85	40	40	64	45	45	68	4.6	4.9	4.3
301940	Upgrade	65	60	85	39	38	62	44	44	67	4.9	5.9	5.1
301941	Upgrade	65	60	85	39	38	64	43	43	66	3.9	5.2	2.7
301947	Upgrade	65	60	85	39	38	62	43	44	67	4.8	5.9	4.8
301953	Upgrade	65	60	85	39	38	63	42	42	65	3.2	4.6	2.0
301958	Upgrade	65	60	85	46	46	70	41	41	65	-5.2	-5.1	-5.1
301959	Upgrade	65	60	85	35	34	58	39	39	62	3.8	5.1	3.8
301963	Upgrade	65	60	85	40	39	64	45	45	68	4.5	5.6	4.4
301965	Upgrade	65	60	85	39	38	63	44	44	67	4.4	5.5	4.1
301967	Upgrade	65	60	85	36	34	60	38	39	62	2.5	4.1	1.7
301968	Upgrade	65	60	85	37	36	61	40	40	63	3.1	4.5	2.8
301973	Upgrade	65	60	85	38	37	62	41	42	65	3.1	4.4	2.9
301980	Upgrade	65	60	85	45	45	67	51	51	75	6.3	6.4	7.3
301983	Upgrade	65	60	85	44	45	67	51	51	74	6.4	6.4	7.2
301985	Upgrade	65	60	85	41	41	66	47	47	71	6.0	6.0	5.4
301986	Upgrade	65	60	85	40	39	64	44	45	68	4.5	5.7	3.8
301989	Upgrade	65	60	85	35	34	58	38	38	62	3.5	4.9	3.7
301991	Upgrade	65	60	85	38	37	62	42	43	66	4.2	5.3	4.6
301992	Upgrade	65	60	85	46	46	69	44	44	67	-1.9	-1.8	-1.5
301997	Upgrade	65	60	85	38	38	61	44	44	67	5.6	5.7	5.8
301998	Upgrade	65	60	85	39	39	63	43	43	66	3.5	4.6	3.1
302003	Upgrade	65	60	85	37	36	61	42	42	65	4.9	6.1	4.2
302006	Upgrade	65	60	85	35	34	60	38	38	62	2.7	4.2	1.9
302009	Upgrade	65	60	85	38	37	62	41	41	64	2.9	4.3	2.4
302012	Upgrade	65	60	85	41	41	64	46	46	70	4.8	5.0	5.4
302015	Upgrade	65	60	85	38	38	61	43	44	67	5.1	5.5	5.4
302016	Upgrade	65	60	85	33	32	58	37	37	61	3.9	5.2	2.6
302017	Upgrade	65	60	85	38	37	62	42	42	65	3.9	5.1	3.0
302019	Upgrade	65	60	85	42	42	65	47	47	70	5.1	5.4	5.4
302020	Upgrade	65	60	85	41	41	65	46	47	70	5.3	5.6	5.0
302021	Upgrade	65	60	85	46	46	71	42	42	65	-3.9	-3.8	-5.5
302022	Upgrade	65	60	85	41	40	63	46	46	69	5.0	5.6	6.1
302023	Upgrade	65	60	85	38	37	62	41	41	64	2.6	4.1	2.5
302024	Upgrade	65	60	85	43	43	67	49	49	72	5.4	5.6	5.5
302025	Upgrade	65	60	85	39	38	63	43	43	66	3.8	5.0	2.9
302026	Upgrade	65	60	85	34	33	58	37	38	61	3.1	4.4	2.8
302027	Upgrade	65	60	85	36	35	59	39	40	62	3.4	4.8	3.1
302029	Upgrade	65	60	85	46	46	71	44	44	67	-2.4	-2.4	-3.3
302031	Upgrade	65	60	85	39	38	64	43	43	66	3.4	4.8	2.1
302034	Upgrade	65	60	85	38	38	61	43	44	66	4.9	5.8	5.2
302035	Upgrade	65	60	85	39	38	63	43	43	66	4.1	5.3	3.2
302038	Upgrade	65	60	85	40	40	64	45	45	69	4.6	5.0	4.5
302042	Upgrade	65	60	85	39	38	64	43	43	66	3.2	4.5	2.4
302043	Upgrade	65	60	85	41	41	65	47	47	71	6.0	6.1	5.6
302044	Upgrade	65	60	85	34	33	58	38	38	61	3.5	4.8	3.0
302047	Upgrade	65	60	85	41	40	64	43	44	66	2.8	3.7	2.4
302052	Upgrade	65	60	85	39	38	62	42	42	65	3.0	4.4	3.0



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		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
302054	Upgrade	65	60	85	33	32	58	37	37	61	3.7	4.9	2.7
302062	Upgrade	65	60	85	37	37	60	42	42	65	4.5	5.4	4.9
302064	Upgrade	65	60	85	41	40	65	45	45	68	4.3	5.4	3.6
302065	Upgrade	65	60	85	41	40	63	45	46	69	4.8	5.3	5.9
302066	Upgrade	65	60	85	42	42	65	47	47	70	4.9	5.3	5.5
302067	Upgrade	65	60	85	39	39	62	43	43	66	3.9	4.5	4.5
302068	Upgrade	65	60	85	33	32	58	36	37	60	3.1	4.5	2.1
302070	Upgrade	65	60	85	39	38	61	43	43	66	4.4	5.6	5.0
302071	Upgrade	65	60	85	39	39	62	45	45	68	5.9	6.6	6.8
302072	Upgrade	65	60	85	38	38	61	43	43	66	4.7	5.7	5.6
302074	Upgrade	65	60	85	38	37	62	42	43	66	3.9	5.1	4.0
302083	Upgrade	65	60	85	37	36	62	41	41	64	3.6	4.9	2.2
302088	Upgrade	65	60	85	33	32	58	35	35	59	2.5	3.9	0.9
302091	Upgrade	65	60	85	49	49	72	55	55	78	5.4	5.4	5.7
302094	Upgrade	65	60	85	39	38	64	41	42	64	2.1	3.7	0.0
302095	Upgrade	65	60	85	37	36	60	41	41	64	4.4	5.7	4.4
302102	Upgrade	65	60	85	41	41	64	45	46	69	4.4	4.9	4.8
302103	Upgrade	65	60	85	32	31	58	35	36	58	2.9	4.3	0.1
302106	Upgrade	65	60	85	45	46	70	44	44	67	-1.6	-1.5	-2.4
302107	Upgrade	65	60	85	40	39	64	43	43	67	3.1	4.5	2.5
302109	Upgrade	65	60	85	37	36	61	42	42	65	5.1	6.0	4.1
302111	Upgrade	65	60	85	39	38	63	42	42	65	3.5	4.8	1.7
302112	Upgrade	65	60	85	39	39	63	44	45	68	5.2	5.3	4.8
302121	Upgrade	65	60	85	36	35	59	41	41	64	5.0	6.0	5.6
302122	Upgrade	65	60	85	40	40	63	44	45	68	4.3	4.8	4.8
302123	Upgrade	65	60	85	39	39	61	43	44	67	4.2	4.9	5.6
302124	Upgrade	65	60	85	40	39	64	44	44	67	3.8	5.1	2.9
302125	Upgrade	65	60	85	40	40	64	45	45	68	4.5	4.9	4.5
302129	Upgrade	65	60	85	45	46	70	43	43	67	-2.3	-2.2	-3.7
302130	Upgrade	65	60	85	38	37	62	41	41	64	3.4	4.6	2.2
302135	Upgrade	65	60	85	38	37	62	42	42	65	3.8	5.0	2.8
302139	Upgrade	65	60	85	36	35	59	41	41	64	4.7	5.8	5.2
302144	Upgrade	65	60	85	40	39	64	44	44	67	3.6	5.0	2.6
302145	Upgrade	65	60	85	38	37	62	42	42	66	4.3	5.2	4.2
302148	Upgrade	65	60	85	39	38	63	44	45	68	5.6	6.5	5.2
302149	Upgrade	65	60	85	38	37	61	42	42	65	3.8	5.2	3.8
302150	Upgrade	65	60	85	39	39	63	44	44	68	4.9	5.2	4.6
302152	Upgrade	65	60	85	32	31	58	35	35	58	3.1	4.5	0.1
302154	Upgrade	65	60	85	35	34	58	39	40	63	4.1	5.4	4.5
302155	Upgrade	65	60	85	49	49	72	32	32	54	-16.9	-16.9	-17.2
302160	Upgrade	65	60	85	37	37	60	42	43	66	4.9	5.8	5.4
302163	Upgrade	65	60	85	39	39	63	44	44	67	4.5	4.9	4.7
302166	Upgrade	65	60	85	36	35	59	40	40	63	4.3	5.6	4.8
302167	Upgrade	65	60	85	35	34	58	39	40	63	4.2	5.4	4.4
302169	Upgrade	65	60	85	46	47	70	39	40	63	-6.9	-6.8	-6.9
302170	Upgrade	65	60	85	39	38	63	43	43	67	3.7	5.0	3.3
302171	Upgrade	65	60	85	41	40	64	45	45	69	4.5	4.9	5.1
302172	Upgrade	65	60	85	47	48	71	33	33	55	-14.5	-14.5	-15.3
302176	Upgrade	65	60	85	38	37	61	42	42	64	3.9	5.1	3.0
302183	Upgrade	65	60	85	36	35	57	41	41	64	5.3	5.9	7.3
302184	Upgrade	65	60	85	38	36	61	41	42	64	3.8	5.1	2.8

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
302185	Upgrade	65	60	85	39	38	62	44	44	67	4.7	5.8	4.9
302186	Upgrade	65	60	85	41	40	65	45	45	69	4.3	5.4	4.0
302189	Upgrade	65	60	85	45	46	69	31	32	54	-14.1	-14.1	-15.0
302192	Upgrade	65	60	85	46	46	68	43	43	67	-2.4	-2.4	-1.5
302196	Upgrade	65	60	85	40	40	63	45	45	69	4.9	5.5	5.5
302197	Upgrade	65	60	85	37	36	61	41	41	64	4.0	5.2	3.3
302198	Upgrade	65	60	85	34	33	58	38	38	61	3.4	4.7	2.7
302199	Upgrade	65	60	85	45	46	70	42	43	66	-2.9	-2.8	-4.3
302200	Upgrade	65	60	85	31	30	54	36	37	60	5.7	6.6	5.6
302202	Upgrade	65	60	85	38	38	62	44	44	67	5.7	6.7	5.3
302203	Upgrade	65	60	85	16	16	40	18	18	41	2.2	2.3	1.1
302204	Upgrade	65	60	85	38	37	62	41	41	65	3.2	4.3	2.3
302205	Upgrade	65	60	85	40	40	64	45	45	68	5.1	5.3	4.6
302207	Upgrade	65	60	85	39	38	63	42	42	65	3.2	4.6	2.4
302208	Upgrade	65	60	85	49	49	72	32	32	55	-16.7	-16.7	-17.0
302209	Upgrade	65	60	85	39	38	63	42	42	65	3.4	4.7	2.2
302211	Upgrade	65	60	85	38	37	61	42	43	65	4.5	5.6	4.8
302213	Upgrade	65	60	85	38	37	61	42	42	65	4.2	5.3	4.9
302214	Upgrade	65	60	85	40	39	63	44	45	68	4.8	5.1	5.3
302215	Upgrade	65	60	85	38	38	60	43	43	66	5.4	5.7	6.0
302218	Upgrade	65	60	85	40	39	63	45	45	68	4.9	5.3	5.5
302219	Upgrade	65	60	85	37	36	61	42	42	65	4.4	5.6	3.4
302221	Upgrade	65	60	85	35	34	61	37	37	60	1.8	3.4	-0.7
302225	Upgrade	65	60	85	31	30	57	32	33	56	0.9	2.7	-1.3
302229	Upgrade	65	60	85	39	38	62	43	43	67	4.2	5.0	4.6
302233	Upgrade	65	60	85	33	32	59	35	36	58	2.5	3.9	-1.0
302236	Upgrade	65	60	85	38	37	62	43	43	66	4.7	5.7	3.9
302237	Upgrade	65	60	85	38	38	62	44	44	68	5.8	6.1	5.9
302242	Upgrade	65	60	85	39	38	62	43	44	67	4.5	5.8	4.3
302245	Upgrade	65	60	85	39	38	63	43	43	66	4.1	5.4	3.4
302246	Upgrade	65	60	85	40	39	64	42	42	66	2.3	3.8	1.9
302249	Upgrade	65	60	85	41	41	64	45	45	67	3.9	4.7	3.7
302251	Upgrade	65	60	85	35	35	59	40	40	63	4.7	5.8	4.6
302252	Upgrade	65	60	85	41	40	63	45	45	68	4.0	4.8	5.0
302256	Upgrade	65	60	85	36	35	60	39	40	62	3.2	4.6	2.2
302260	Upgrade	65	60	85	40	40	64	44	45	68	4.8	5.1	4.4
302261	Upgrade	65	60	85	40	38	64	43	43	66	3.1	4.4	1.8
302262	Upgrade	65	60	85	41	40	64	46	47	70	5.5	6.4	5.7
302263	Upgrade	65	60	85	38	38	62	44	44	67	5.4	6.3	5.0
302269	Upgrade	65	60	85	39	38	62	43	43	66	4.0	5.4	4.1
302270	Upgrade	65	60	85	42	42	66	48	48	72	5.8	5.9	5.4
302275	Upgrade	65	60	85	38	38	61	43	43	66	4.5	5.5	4.7
302277	Upgrade	65	60	85	45	45	70	42	42	65	-3.5	-3.4	-5.0
302278	Upgrade	65	60	85	37	36	58	41	41	64	4.6	5.2	6.1
302279	Upgrade	65	60	85	37	36	61	42	42	65	4.6	5.8	4.2
302280	Upgrade	65	60	85	44	44	69	45	45	68	0.9	0.9	-0.1
302284	Upgrade	65	60	85	41	41	63	47	47	70	5.4	6.3	7.1
302287	Upgrade	65	60	85	39	39	63	43	43	66	3.5	4.4	2.3
302288	Upgrade	65	60	85	37	36	59	42	43	65	5.1	6.2	6.1
302289	Upgrade	65	60	85	33	32	59	37	38	60	3.9	5.2	1.8
302291	Upgrade	65	60	85	45	45	68	44	44	68	-1.0	-1.0	-0.6



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
302293	Upgrade	65	60	85	32	31	58	35	35	58	2.3	3.7	-0.8
302295	Upgrade	65	60	85	40	39	62	43	44	67	3.7	4.5	4.9
302296	Upgrade	65	60	85	38	38	61	43	43	66	4.3	5.3	5.1
302299	Upgrade	65	60	85	47	47	69	41	41	64	-5.8	-5.7	-5.2
302301	Upgrade	65	60	85	39	38	63	43	43	66	3.9	5.0	2.7
302303	Upgrade	65	60	85	40	39	63	44	45	67	4.6	5.8	4.6
302305	Upgrade	65	60	85	61	61	86	45	45	68	-15.6	-15.5	-17.9
302306	Upgrade	65	60	85	38	37	63	42	42	65	3.3	4.5	1.7
302307	Upgrade	65	60	85	41	40	65	45	45	68	4.2	5.5	3.6
302309	Upgrade	65	60	85	35	34	60	39	39	62	3.3	4.7	2.0
302310	Upgrade	65	60	85	40	40	64	45	45	68	4.7	4.9	4.6
302313	Upgrade	65	60	85	40	40	63	45	45	68	4.5	5.1	5.2
302320	Upgrade	65	60	85	56	57	82	46	46	69	-10.5	-10.5	-13.1
302323	Upgrade	65	60	85	38	38	61	43	43	66	4.7	5.3	5.2
302324	Upgrade	65	60	85	40	40	63	45	45	68	4.5	5.1	5.3
302325	Upgrade	65	60	85	40	39	63	44	45	67	4.7	5.8	4.4
302327	Upgrade	65	60	85	40	40	63	45	45	68	4.4	5.0	5.3
302328	Upgrade	65	60	85	40	39	65	43	43	66	2.6	4.0	1.0
302329	Upgrade	65	60	85	38	38	60	43	43	66	4.6	5.2	6.2
302330	Upgrade	65	60	85	36	36	60	43	43	66	6.3	7.1	5.6
302335	Upgrade	65	60	85	30	29	56	31	32	55	0.9	2.6	-0.7
302336	Upgrade	65	60	85	39	38	63	43	44	67	4.3	5.4	4.4
302337	Upgrade	65	60	85	41	40	65	46	46	69	4.9	5.8	4.4
302338	Upgrade	65	60	85	39	38	63	42	42	65	2.8	4.3	1.8
302339	Upgrade	65	60	85	34	33	59	38	39	61	4.8	5.8	2.4
302341	Upgrade	65	60	85	39	39	63	44	44	68	5.0	5.4	4.8
302342	Upgrade	65	60	85	41	40	64	45	46	69	4.6	5.8	5.1
302343	Upgrade	65	60	85	41	40	65	46	46	69	4.5	5.8	4.1
302344	Upgrade	65	60	85	37	37	59	42	42	65	5.0	5.5	6.6
302347	Upgrade	65	60	85	50	51	73	46	47	70	-4.2	-4.2	-3.6
302348	Upgrade	65	60	85	38	37	60	43	43	66	5.3	6.2	6.3
302356	Upgrade	65	60	85	36	35	61	40	41	64	4.3	5.5	2.6
302357	Upgrade	65	60	85	33	32	58	36	36	59	3.1	4.5	0.4
302362	Upgrade	65	60	85	37	36	59	42	43	65	5.1	6.2	5.9
302371	Upgrade	65	60	85	40	39	65	43	43	66	3.2	4.4	1.5
302372	Upgrade	65	60	85	39	38	63	43	43	66	3.7	5.0	3.0
302373	Upgrade	65	60	85	36	36	60	41	42	65	5.3	5.6	5.2
302374	Upgrade	65	60	85	39	38	62	43	44	67	4.7	5.9	4.4
302376	Upgrade	65	60	85	43	43	66	47	48	71	4.4	4.9	5.2
302377	Upgrade	65	60	85	42	41	64	47	47	69	4.8	5.5	5.7
302380	Upgrade	65	60	85	41	40	62	44	44	67	3.4	4.2	5.2
302386	Upgrade	65	60	85	43	42	66	46	47	69	3.8	4.6	3.3
302387	Upgrade	65	60	85	43	42	65	47	48	71	4.9	5.4	5.4
302388	Upgrade	65	60	85	46	47	69	36	37	59	-9.9	-9.8	-9.9
302394	Upgrade	65	60	85	40	40	64	45	45	68	4.2	5.3	3.5
302395	Upgrade	65	60	85	38	37	61	42	43	65	4.7	5.9	4.3
302398	Upgrade	65	60	85	33	32	59	36	37	60	3.2	4.6	0.8
302399	Upgrade	65	60	85	43	43	66	47	48	71	4.5	5.0	5.4
302400	Upgrade	65	60	85	33	32	59	37	37	60	3.5	4.8	0.9
302402	Upgrade	65	60	85	39	38	64	43	44	67	3.9	5.2	2.9
302403	Upgrade	65	60	85	37	36	62	41	42	64	4.2	5.4	2.5

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
302405	Upgrade	65	60	85	38	37	60	41	42	65	3.6	4.4	5.1
302406	Upgrade	65	60	85	38	38	62	43	44	67	5.2	6.1	4.4
302410	Upgrade	65	60	85	42	41	64	46	46	69	4.4	5.2	4.4
302411	Upgrade	65	60	85	43	43	67	44	44	67	1.0	1.0	0.4
302412	Upgrade	65	60	85	40	39	62	44	44	67	4.2	4.8	4.9
302414	Upgrade	65	60	85	41	42	66	47	47	71	5.5	5.5	5.1
302416	Upgrade	65	60	85	39	38	62	43	44	66	4.3	5.6	4.3
302418	Upgrade	65	60	85	37	37	60	41	42	65	3.9	4.6	4.9
302422	Upgrade	65	60	85	40	39	64	44	45	67	4.4	5.7	3.8
302424	Upgrade	65	60	85	42	41	64	48	48	71	6.0	6.8	7.3
302426	Upgrade	65	60	85	45	45	70	44	44	68	-0.5	-0.5	-2.0
302432	Upgrade	65	60	85	44	44	69	45	45	68	1.1	1.2	-0.3
302433	Upgrade	65	60	85	46	47	68	42	42	65	-4.3	-4.2	-3.0
302434	Upgrade	65	60	85	40	39	64	44	44	67	4.1	5.3	3.6
302439	Upgrade	65	60	85	38	38	63	44	44	67	5.1	5.9	3.8
302443	Upgrade	65	60	85	40	39	63	44	45	67	4.4	5.6	3.9
302448	Upgrade	65	60	85	52	52	77	37	37	60	-15.1	-15.1	-16.4
302449	Upgrade	65	60	85	40	40	63	44	45	67	4.8	5.2	4.8
302450	Upgrade	65	60	85	42	42	66	44	45	68	2.6	2.6	2.0
302452	Upgrade	65	60	85	33	32	59	37	37	60	3.8	5.1	1.2
302453	Upgrade	65	60	85	38	37	62	42	42	65	4.0	5.3	3.2
302454	Upgrade	65	60	85	31	31	55	36	37	60	5.0	6.0	4.4
302455	Upgrade	65	60	85	40	40	63	45	45	68	5.0	5.4	5.3
302458	Upgrade	65	60	85	38	37	63	41	42	64	3.1	4.5	1.4
302460	Upgrade	65	60	85	42	42	67	48	48	71	5.4	5.5	4.7
302463	Upgrade	65	60	85	47	47	70	34	34	57	-12.8	-12.8	-13.3
302464	Upgrade	65	60	85	39	39	62	44	44	67	4.8	5.9	4.6
302465	Upgrade	65	60	85	43	42	68	46	46	69	3.1	4.4	1.5
302467	Upgrade	65	60	85	39	38	61	44	44	67	5.2	5.7	6.1
302470	Upgrade	65	60	85	32	31	59	34	34	57	1.2	2.9	-2.0
302473	Upgrade	65	60	85	43	43	65	48	49	70	5.2	6.0	4.8
302474	Upgrade	65	60	85	37	36	61	42	42	65	4.7	5.8	4.1
302477	Upgrade	65	60	85	38	37	60	42	43	65	4.9	6.0	5.5
302481	Upgrade	65	60	85	47	47	68	46	47	70	-0.4	-0.3	1.6
302482	Upgrade	65	60	85	44	44	69	46	46	69	1.7	1.6	0.0
302483	Upgrade	65	60	85	43	43	67	49	49	73	5.6	5.6	5.3
302484	Upgrade	65	60	85	38	37	61	41	41	65	3.2	4.4	3.3
302485	Upgrade	65	60	85	41	40	64	46	47	70	5.3	6.3	5.8
302487	Upgrade	65	60	85	39	38	63	43	43	66	3.7	5.0	2.9
302489	Upgrade	65	60	85	44	44	68	36	37	58	-7.4	-7.4	-10.1
302491	Upgrade	65	60	85	46	47	69	53	53	75	6.2	6.1	6.7
302494	Upgrade	65	60	85	36	35	60	39	39	62	3.6	4.8	2.0
302498	Upgrade	65	60	85	41	40	65	45	45	67	3.9	5.0	2.5
302499	Upgrade	65	60	85	35	35	60	41	42	65	6.3	6.3	5.0
302503	Upgrade	65	60	85	33	32	59	37	37	60	3.2	4.6	0.9
302508	Upgrade	65	60	85	39	38	62	44	44	67	5.1	5.9	5.8
302510	Upgrade	65	60	85	41	41	65	46	46	70	4.8	5.2	5.0
302512	Upgrade	65	60	85	40	40	63	45	45	69	5.5	5.6	5.3
302513	Upgrade	65	60	85	43	43	66	48	49	72	5.5	6.0	5.8
302517	Upgrade	65	60	85	41	40	63	45	45	68	4.5	5.0	4.8
302519	Upgrade	65	60	85	40	40	62	45	45	68	4.7	5.2	5.6



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
302521	Upgrade	65	60	85	39	38	63	43	43	66	3.7	5.0	2.9
302522	Upgrade	65	60	85	38	36	62	39	39	62	1.6	3.1	0.8
302525	Upgrade	65	60	85	35	34	59	40	40	62	4.4	5.5	2.7
302527	Upgrade	65	60	85	38	38	62	43	43	66	4.4	5.5	4.2
302529	Upgrade	65	60	85	39	38	64	43	43	65	3.4	4.6	1.2
302531	Upgrade	65	60	85	39	38	63	43	44	66	4.8	5.9	3.0
302532	Upgrade	65	60	85	42	42	65	46	46	69	3.6	4.4	4.3
302536	Upgrade	65	60	85	45	46	68	45	45	69	-0.2	-0.1	0.9
302537	Upgrade	65	60	85	40	41	64	36	37	60	-3.7	-3.7	-4.7
302540	Upgrade	65	60	85	45	44	71	48	49	72	2.9	4.3	0.9
302545	Upgrade	65	60	85	36	36	60	42	43	66	6.5	6.5	5.9
302555	Upgrade	65	60	85	39	38	61	44	45	67	5.2	6.2	5.9
302557	Upgrade	65	60	85	44	44	68	49	49	73	5.4	5.5	5.5
302559	Upgrade	65	60	85	34	33	59	37	37	60	3.0	4.4	1.0
302560	Upgrade	65	60	85	38	38	63	42	42	66	3.7	4.8	2.4
302561	Upgrade	65	60	85	35	34	60	38	38	61	3.6	4.8	1.4
302562	Upgrade	65	60	85	40	39	64	42	42	65	2.2	3.7	1.3
302563	Upgrade	65	60	85	41	40	66	44	44	67	2.7	4.2	1.0
302564	Upgrade	65	60	85	42	42	64	47	47	70	4.8	5.4	5.4
302570	Upgrade	65	60	85	38	37	62	41	41	64	3.1	4.5	2.2
302574	Upgrade	65	60	85	36	35	62	38	39	62	2.0	3.6	-0.3
302575	Upgrade	65	60	85	43	42	66	47	48	70	4.8	5.8	4.4
302576	Upgrade	65	60	85	42	41	64	47	47	69	5.0	5.6	5.7
302578	Upgrade	65	60	85	40	40	63	45	46	69	5.1	5.4	5.4
302579	Upgrade	65	60	85	39	38	63	41	41	64	2.0	3.6	0.5
302582	Upgrade	65	60	85	43	41	67	46	46	69	3.4	4.8	2.3
302588	Upgrade	65	60	85	40	38	64	41	42	65	1.7	3.2	0.8
302594	Upgrade	65	60	85	40	39	64	42	42	65	1.8	3.5	0.5
302595	Upgrade	65	60	85	42	41	64	46	46	70	4.3	4.8	5.1
302597	Upgrade	65	60	85	38	37	63	42	43	66	4.1	5.3	3.0
302598	Upgrade	65	60	85	37	36	62	41	41	64	4.0	5.1	1.6
302599	Upgrade	65	60	85	47	47	70	33	33	55	-13.8	-13.8	-15.4
302601	Upgrade	65	60	85	38	38	61	44	44	67	5.4	6.4	5.4
302602	Upgrade	65	60	85	42	41	65	46	47	70	4.6	5.2	5.1
302603	Upgrade	65	60	85	43	42	68	46	47	70	3.3	4.6	1.9
302604	Upgrade	65	60	85	43	43	66	48	49	71	5.1	5.8	5.0
302606	Upgrade	65	60	85	43	42	65	48	48	70	4.9	5.5	5.3
302607	Upgrade	65	60	85	42	41	67	44	45	67	2.4	3.9	0.7
302611	Upgrade	65	60	85	40	39	64	42	42	64	1.9	3.5	0.5
302614	Upgrade	65	60	85	46	47	69	43	44	67	-2.9	-2.9	-1.8
302617	Upgrade	65	60	85	34	34	57	40	41	64	6.1	6.2	6.1
302620	Upgrade	65	60	85	41	41	63	45	45	68	3.6	4.4	4.5
302621	Upgrade	65	60	85	39	38	62	43	43	67	4.3	5.2	5.1
302624	Upgrade	65	60	85	38	38	62	43	43	66	4.2	5.3	3.8
302626	Upgrade	65	60	85	45	45	69	50	50	74	5.3	5.5	5.1
302628	Upgrade	65	60	85	34	33	59	37	37	59	3.3	4.7	0.0
302630	Upgrade	65	60	85	37	36	60	40	41	63	3.7	5.0	3.4
302631	Upgrade	65	60	85	40	39	64	43	44	66	2.9	4.3	2.2
302632	Upgrade	65	60	85	30	29	56	34	34	57	3.7	5.0	1.2
302635	Upgrade	65	60	85	41	39	64	44	44	66	3.2	4.6	2.6
302637	Upgrade	65	60	85	43	42	68	47	48	70	3.8	5.1	2.3

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmaz	LAeq,15hr	LAeq,9hr	LAmaz	LAeq,15hr	LAeq,9hr	LAmaz
302639	Upgrade	65	60	85	39	39	61	45	45	68	5.4	6.3	6.6
302642	Upgrade	65	60	85	25	25	45	32	32	55	7.1	7.5	10.2
302646	Upgrade	65	60	85	37	35	61	39	39	61	2.0	3.5	0.0
302648	Upgrade	65	60	85	40	39	64	43	43	66	2.6	4.0	1.7
302649	Upgrade	65	60	85	38	37	62	41	41	64	2.8	4.2	1.8
302660	Upgrade	65	60	85	40	39	64	44	45	67	4.4	5.6	3.3
302662	Upgrade	65	60	85	41	41	65	46	46	70	4.8	5.1	4.5
302665	Upgrade	65	60	85	39	38	62	42	42	65	3.0	4.4	2.5
302667	Upgrade	65	60	85	42	42	65	46	46	70	4.2	4.7	4.6
302670	Upgrade	65	60	85	35	34	60	38	38	61	3.7	4.9	1.0
302672	Upgrade	65	60	85	47	47	70	34	34	57	-13.3	-13.2	-13.7
302675	Upgrade	65	60	85	41	41	64	45	46	69	4.6	4.9	4.7
302676	Upgrade	65	60	85	39	38	63	44	44	67	5.0	5.9	4.8
302678	Upgrade	65	60	85	41	41	64	45	46	69	4.6	5.0	4.5
302680	Upgrade	65	60	85	42	42	67	44	44	67	2.4	2.4	0.8
302687	Upgrade	65	60	85	43	42	67	46	46	69	3.6	4.9	2.4
302688	Upgrade	65	60	85	41	40	64	45	45	68	4.4	5.5	4.7
302690	Upgrade	65	60	85	34	33	60	38	38	60	3.4	4.7	0.5
302695	Upgrade	65	60	85	37	38	61	43	44	67	6.2	6.3	5.3
302698	Upgrade	65	60	85	41	41	64	47	47	70	5.4	6.3	5.2
302700	Upgrade	65	60	85	43	43	66	36	37	59	-6.7	-6.6	-7.3
302701	Upgrade	65	60	85	39	39	63	44	44	68	4.8	5.6	4.5
302704	Upgrade	65	60	85	42	42	65	46	47	70	4.9	5.0	4.9
302705	Upgrade	65	60	85	40	40	64	45	45	68	4.6	5.0	4.7
302710	Upgrade	65	60	85	51	51	75	57	57	80	5.7	5.8	5.1
302716	Upgrade	65	60	85	38	37	63	40	40	63	2.1	3.6	0.3
302720	Upgrade	65	60	85	34	33	57	38	38	61	4.1	4.8	4.2
302721	Upgrade	65	60	85	61	61	86	30	31	55	-30.3	-30.2	-31.2
302724	Upgrade	65	60	85	39	38	61	44	44	67	5.6	6.4	6.3
302726	Upgrade	65	60	85	40	39	64	41	41	65	1.4	2.9	0.7
302729	Upgrade	65	60	85	40	40	63	45	45	68	4.7	5.1	4.8
302731	Upgrade	65	60	85	40	40	63	45	45	68	4.6	5.1	4.6
302733	Upgrade	65	60	85	46	46	69	33	33	56	-12.9	-12.8	-13.4
302735	Upgrade	65	60	85	40	39	64	44	44	66	3.6	4.6	2.6
302737	Upgrade	65	60	85	41	41	64	45	45	68	3.8	4.5	4.9
302738	Upgrade	65	60	85	41	40	64	45	45	68	4.0	5.3	4.0
302740	Upgrade	65	60	85	40	39	64	43	43	66	2.5	3.9	1.7
302743	Upgrade	65	60	85	38	37	61	42	42	65	4.1	5.4	4.4
302744	Upgrade	65	60	85	40	39	64	43	44	67	3.1	4.5	2.9
302746	Upgrade	65	60	85	35	34	62	36	36	58	0.7	2.4	-3.9
302750	Upgrade	65	60	85	42	42	65	47	47	68	4.4	5.3	3.0
302755	Upgrade	65	60	85	42	41	64	46	46	68	4.2	4.8	4.5
302759	Upgrade	65	60	85	48	49	71	47	47	70	-1.9	-1.8	-1.4
302763	Upgrade	65	60	85	40	39	62	43	44	67	3.9	5.0	4.3
302764	Upgrade	65	60	85	41	40	65	44	44	67	2.7	4.2	1.8
302766	Upgrade	65	60	85	42	41	65	46	46	68	3.8	4.8	2.9
302768	Upgrade	65	60	85	39	38	63	43	44	67	3.9	5.2	3.8
302771	Upgrade	65	60	85	40	39	64	42	43	65	2.1	3.6	1.0
302773	Upgrade	65	60	85	50	50	73	47	47	70	-3.0	-3.0	-3.0
302774	Upgrade	65	60	85	38	37	62	42	42	65	3.4	4.6	2.9
302775	Upgrade	65	60	85	42	41	67	45	45	68	2.5	3.7	1.1



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
302776	Upgrade	65	60	85	39	39	64	44	44	67	4.2	5.2	3.5
302779	Upgrade	65	60	85	40	39	64	43	43	65	2.5	3.9	1.1
302780	Upgrade	65	60	85	41	40	64	45	45	68	4.1	5.4	4.0
302782	Upgrade	65	60	85	44	43	68	48	49	71	4.3	5.5	3.6
302786	Upgrade	65	60	85	41	40	65	45	46	69	4.3	5.5	3.6
302787	Upgrade	65	60	85	46	46	70	35	35	58	-11.0	-11.0	-12.2
302790	Upgrade	65	60	85	41	40	65	45	45	68	3.8	5.0	2.6
302794	Upgrade	65	60	85	55	55	81	40	41	62	-14.7	-14.7	-18.4
302795	Upgrade	65	60	85	38	37	63	42	42	65	4.1	5.1	2.6
302798	Upgrade	65	60	85	42	41	65	45	46	68	3.7	5.0	3.2
302799	Upgrade	65	60	85	33	32	60	35	35	57	1.5	3.2	-2.2
302803	Upgrade	65	60	85	38	37	61	43	43	66	4.3	5.5	4.5
302812	Upgrade	65	60	85	40	39	64	43	44	66	3.0	4.5	2.3
302822	Upgrade	65	60	85	47	48	70	45	45	68	-2.5	-2.5	-1.9
302823	Upgrade	65	60	85	41	39	64	43	44	66	2.9	4.2	2.0
302824	Upgrade	65	60	85	35	34	60	39	39	62	4.2	5.4	1.6
302829	Upgrade	65	60	85	40	40	64	46	46	69	5.3	5.4	4.9
302835	Upgrade	65	60	85	50	51	75	44	45	68	-6.0	-5.9	-6.4
302836	Upgrade	65	60	85	40	39	64	45	45	67	4.2	5.4	3.1
302837	Upgrade	65	60	85	44	43	66	49	49	71	5.3	6.2	5.0
302838	Upgrade	65	60	85	41	40	65	45	45	68	3.5	4.8	3.3
302842	Upgrade	65	60	85	41	41	63	47	47	69	5.3	6.1	5.4
302849	Upgrade	65	60	85	41	41	64	40	40	63	-0.7	-0.7	-0.6
302853	Upgrade	65	60	85	38	38	62	43	44	67	5.0	5.8	5.5
302855	Upgrade	65	60	85	44	43	67	48	49	72	4.7	5.8	4.7
302856	Upgrade	65	60	85	40	39	64	44	44	67	3.8	5.0	2.8
302860	Upgrade	65	60	85	42	41	66	46	47	70	4.1	5.4	3.8
302861	Upgrade	65	60	85	38	38	60	42	42	65	4.1	4.8	5.2
302863	Upgrade	65	60	85	42	42	66	46	46	70	4.7	4.9	4.2
302868	Upgrade	65	60	85	39	39	62	44	44	67	4.5	5.0	4.6
302874	Upgrade	65	60	85	38	37	60	43	43	66	5.2	6.0	5.7
302875	Upgrade	65	60	85	40	39	62	43	44	66	3.7	4.4	4.4
302878	Upgrade	65	60	85	41	40	66	46	46	69	4.8	5.9	3.1
302880	Upgrade	65	60	85	39	38	62	43	43	66	3.6	4.8	3.2
302881	Upgrade	65	60	85	40	40	63	46	46	68	5.7	6.5	4.8
302883	Upgrade	65	60	85	41	41	64	46	46	69	4.9	5.3	5.0
302890	Upgrade	65	60	85	41	40	66	44	44	68	3.2	4.6	1.5
302895	Upgrade	65	60	85	49	50	74	44	45	67	-5.2	-5.1	-7.2
302900	Upgrade	65	60	85	34	34	59	41	41	64	6.6	6.7	5.3
302905	Upgrade	65	60	85	39	39	62	44	45	67	4.9	5.2	5.4
302906	Upgrade	65	60	85	42	43	65	42	43	65	0.0	-0.1	0.0
302908	Upgrade	65	60	85	39	39	62	44	44	67	4.9	5.2	4.7
302909	Upgrade	65	60	85	41	40	65	46	46	68	4.5	5.6	3.7
302913	Upgrade	65	60	85	46	47	70	37	37	60	-9.6	-9.5	-10.6
302915	Upgrade	65	60	85	39	39	63	44	44	67	4.7	5.1	4.4
302918	Upgrade	65	60	85	40	39	64	43	43	66	3.0	4.4	2.0
302919	Upgrade	65	60	85	38	36	61	41	41	64	3.6	4.9	3.3
302922	Upgrade	65	60	85	41	40	64	45	46	68	4.4	5.5	4.4
302925	Upgrade	65	60	85	38	37	62	42	42	65	3.4	4.7	3.0
302926	Upgrade	65	60	85	42	41	65	47	47	70	5.0	6.1	5.1
302927	Upgrade	65	60	85	41	40	63	44	45	67	3.8	4.4	4.3

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
302928	Upgrade	65	60	85	37	37	63	44	44	67	6.1	6.4	4.6
302929	Upgrade	65	60	85	42	41	66	46	47	70	4.5	5.7	3.6
302930	Upgrade	65	60	85	39	39	63	45	45	68	5.6	5.7	4.6
302931	Upgrade	65	60	85	40	40	63	45	45	68	4.6	5.1	4.7
302936	Upgrade	65	60	85	56	57	81	36	36	60	-20.4	-20.3	-21.6
302938	Upgrade	65	60	85	45	46	69	32	33	56	-12.9	-12.8	-13.4
302941	Upgrade	65	60	85	30	30	50	34	34	56	3.5	3.6	6.2
302942	Upgrade	65	60	85	40	39	64	44	44	66	3.3	4.7	2.5
302944	Upgrade	65	60	85	42	40	66	44	45	67	2.7	4.2	1.6
302948	Upgrade	65	60	85	40	39	63	45	45	68	4.9	5.9	5.1
302950	Upgrade	65	60	85	40	38	63	42	43	65	2.8	4.3	1.9
302951	Upgrade	65	60	85	42	41	66	46	46	69	4.1	5.1	3.0
302953	Upgrade	65	60	85	45	46	67	45	45	69	-0.3	-0.2	1.4
302957	Upgrade	65	60	85	40	39	62	44	44	67	4.6	5.3	5.5
302961	Upgrade	65	60	85	40	39	64	44	45	67	4.6	5.8	3.3
302971	Upgrade	65	60	85	37	38	61	44	44	68	6.5	6.5	7.0
302977	Upgrade	65	60	85	37	36	61	42	42	64	4.6	5.8	3.6
302980	Upgrade	65	60	85	40	39	64	45	45	68	4.7	5.9	3.5
302989	Upgrade	65	60	85	42	41	66	45	46	68	3.4	4.4	2.3
302990	Upgrade	65	60	85	40	39	63	43	44	67	3.5	4.6	3.9
302991	Upgrade	65	60	85	44	44	68	33	33	55	-11.1	-11.1	-12.6
302992	Upgrade	65	60	85	40	39	63	43	44	66	3.5	4.8	2.6
302994	Upgrade	65	60	85	41	40	65	45	45	68	4.0	5.3	3.0
302998	Upgrade	65	60	85	42	41	65	46	46	68	4.0	5.2	3.8
302999	Upgrade	65	60	85	34	34	57	40	40	63	6.0	6.1	5.8
303003	Upgrade	65	60	85	33	32	58	37	37	60	4.2	5.3	1.6
303005	Upgrade	65	60	85	39	39	62	44	44	67	4.4	4.9	5.0
303007	Upgrade	65	60	85	42	41	66	45	46	69	3.3	4.7	2.4
303008	Upgrade	65	60	85	41	40	65	45	45	68	3.8	5.0	2.6
303010	Upgrade	65	60	85	43	42	66	47	47	71	4.1	5.3	4.9
303011	Upgrade	65	60	85	40	40	62	46	46	68	5.5	6.5	6.2
303012	Upgrade	65	60	85	40	39	64	42	42	65	1.5	3.1	0.7
303015	Upgrade	65	60	85	40	39	61	43	44	67	3.8	4.4	5.2
303018	Upgrade	65	60	85	41	40	64	46	46	68	4.2	5.4	4.1
303019	Upgrade	65	60	85	41	41	65	45	46	69	3.8	5.0	3.6
303022	Upgrade	65	60	85	37	36	61	42	43	65	5.3	6.1	4.1
303023	Upgrade	65	60	85	40	39	64	44	44	67	3.7	5.0	2.4
303027	Upgrade	65	60	85	38	38	60	43	44	67	5.6	5.8	6.3
303029	Upgrade	65	60	85	40	39	65	43	44	66	2.9	4.5	1.2
303033	Upgrade	65	60	85	42	40	66	43	44	67	1.8	3.3	0.4
303034	Upgrade	65	60	85	39	38	62	43	44	67	4.6	5.5	4.8
303035	Upgrade	65	60	85	42	42	65	47	47	70	4.8	5.1	5.3
303040	Upgrade	65	60	85	38	38	62	41	42	64	3.0	3.9	2.4
303046	Upgrade	65	60	85	41	40	63	45	45	68	4.6	5.6	4.9
303048	Upgrade	65	60	85	40	38	64	43	43	66	3.2	4.7	2.1
303049	Upgrade	65	60	85	38	37	61	43	43	66	4.9	5.9	4.4
303051	Upgrade	65	60	85	39	39	63	44	45	67	4.8	5.9	4.0
303053	Upgrade	65	60	85	41	40	64	44	44	67	3.3	4.8	2.9
303056	Upgrade	65	60	85	39	38	62	42	42	64	3.0	4.0	2.7
303057	Upgrade	65	60	85	32	32	53	35	36	58	3.3	3.4	4.8
303058	Upgrade	65	60	85	41	40	64	45	46	68	4.5	5.6	4.4



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
303060	Upgrade	65	60	85	40	40	64	45	45	68	4.2	5.4	4.0
303066	Upgrade	65	60	85	41	40	63	45	45	68	4.3	4.9	5.4
303077	Upgrade	65	60	85	34	33	58	38	39	61	4.8	5.7	2.5
303079	Upgrade	65	60	85	41	40	64	43	43	67	2.3	3.4	2.1
303082	Upgrade	65	60	85	42	42	66	48	48	71	5.5	5.5	5.1
303085	Upgrade	65	60	85	42	41	65	45	45	68	2.9	4.2	3.3
303087	Upgrade	65	60	85	39	38	62	42	42	64	3.1	4.0	2.7
303090	Upgrade	65	60	85	42	41	67	45	46	68	2.9	4.5	1.4
303093	Upgrade	65	60	85	41	40	64	45	46	68	4.1	5.3	4.0
303096	Upgrade	65	60	85	39	39	62	44	45	67	4.9	5.9	4.8
303101	Upgrade	65	60	85	41	40	65	45	45	68	4.1	5.2	2.8
303104	Upgrade	65	60	85	38	37	61	41	41	63	2.5	3.5	1.9
303105	Upgrade	65	60	85	39	38	62	42	42	65	3.0	4.1	2.6
303106	Upgrade	65	60	85	40	39	63	44	44	67	3.8	5.1	3.4
303114	Upgrade	65	60	85	37	38	61	44	44	67	6.1	6.2	5.7
303115	Upgrade	65	60	85	48	48	71	54	54	76	5.7	5.7	5.7
303117	Upgrade	65	60	85	38	38	60	43	43	66	4.9	5.3	6.0
303118	Upgrade	65	60	85	42	41	65	45	45	69	3.0	4.4	3.2
303122	Upgrade	65	60	85	31	31	52	36	36	59	5.1	5.1	6.3
303124	Upgrade	65	60	85	46	46	70	45	45	69	-0.5	-0.5	-1.0
303125	Upgrade	65	60	85	41	40	62	45	45	67	4.2	4.9	4.3
303127	Upgrade	65	60	85	36	35	61	39	40	62	3.4	4.8	0.7
303128	Upgrade	65	60	85	41	40	66	46	46	68	4.2	5.5	2.2
303131	Upgrade	65	60	85	40	40	62	44	45	67	4.1	4.9	5.0
303134	Upgrade	65	60	85	41	40	66	46	46	68	4.8	5.8	2.6
303136	Upgrade	65	60	85	39	39	62	43	43	65	3.4	4.3	2.8
303137	Upgrade	65	60	85	40	39	62	43	43	65	3.4	4.2	3.0
303140	Upgrade	65	60	85	41	40	66	46	46	68	4.7	5.8	2.6
303144	Upgrade	65	60	85	37	36	60	42	43	65	5.7	6.5	5.6
303148	Upgrade	65	60	85	37	37	60	42	42	65	4.5	5.0	5.2
303153	Upgrade	65	60	85	35	35	56	40	40	61	4.4	5.2	4.4
303157	Upgrade	65	60	85	42	41	67	45	45	68	2.8	4.3	1.2
303158	Upgrade	65	60	85	42	41	66	45	46	68	3.5	4.8	2.7
303166	Upgrade	65	60	85	41	41	64	46	46	69	4.4	5.0	4.9
303167	Upgrade	65	60	85	37	37	61	44	44	67	6.4	6.4	5.7
303170	Upgrade	65	60	85	32	31	58	37	37	60	4.7	5.8	2.1
303178	Upgrade	65	60	85	41	40	64	44	44	67	3.1	4.4	3.0
303182	Upgrade	65	60	85	39	38	61	42	42	65	3.3	4.0	3.6
303183	Upgrade	65	60	85	43	42	65	47	48	70	4.7	5.6	4.6
303184	Upgrade	65	60	85	44	44	68	49	49	73	5.3	5.4	4.5
303185	Upgrade	65	60	85	40	40	63	45	45	68	4.4	5.6	5.5
303186	Upgrade	65	60	85	47	47	69	46	47	69	-0.5	-0.4	0.2
303187	Upgrade	65	60	85	43	42	65	47	47	71	4.4	5.5	5.3
303190	Upgrade	65	60	85	42	41	65	46	47	69	4.3	5.4	4.1
303193	Upgrade	65	60	85	42	41	66	46	47	70	4.4	5.6	3.7
303206	Upgrade	65	60	85	43	43	66	48	48	70	4.7	5.5	3.4
303208	Upgrade	65	60	85	43	42	64	48	48	70	5.3	5.8	5.4
303214	Upgrade	65	60	85	42	41	66	45	45	68	2.6	4.0	2.6
303217	Upgrade	65	60	85	42	41	66	46	47	70	3.8	5.1	3.2
303219	Upgrade	65	60	85	42	41	67	45	45	68	2.6	4.1	0.1
303226	Upgrade	65	60	85	43	42	65	48	48	70	4.8	5.7	4.8

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
303228	Upgrade	65	60	85	44	43	68	48	48	71	4.4	5.4	3.4
303230	Upgrade	65	60	85	42	41	66	45	46	69	3.9	5.1	2.9
303236	Upgrade	65	60	85	43	43	67	48	48	70	4.4	5.4	3.6
303238	Upgrade	65	60	85	37	37	59	41	41	63	3.9	4.7	4.6
303251	Upgrade	65	60	85	40	39	64	45	45	68	4.3	5.5	3.6
303252	Upgrade	65	60	85	36	36	58	40	41	63	4.2	4.9	5.3
303254	Upgrade	65	60	85	38	37	61	40	40	62	2.2	3.5	0.7
303255	Upgrade	65	60	85	41	40	64	45	46	68	3.9	5.2	3.4
303265	Upgrade	65	60	85	36	35	62	39	40	62	3.0	4.5	0.4
303268	Upgrade	65	60	85	41	40	65	45	46	68	4.0	5.3	3.3
303272	Upgrade	65	60	85	34	33	60	36	36	57	1.6	3.0	-3.2
303273	Upgrade	65	60	85	42	41	65	46	47	69	4.7	5.8	3.9
303278	Upgrade	65	60	85	33	32	60	36	36	59	2.6	4.2	-0.7
303279	Upgrade	65	60	85	43	44	67	50	50	73	6.2	6.1	6.3
303282	Upgrade	65	60	85	40	39	65	44	44	68	3.9	5.0	2.4
303283	Upgrade	65	60	85	37	37	60	42	43	66	5.8	5.7	5.6
303284	Upgrade	65	60	85	45	45	67	41	41	64	-3.9	-3.7	-3.7
303288	Upgrade	65	60	85	46	46	69	45	45	68	-1.3	-1.3	-1.2
303290	Upgrade	65	60	85	41	42	65	42	43	66	0.7	0.8	0.8
303295	Upgrade	65	60	85	44	43	67	49	49	72	4.9	5.8	4.7
303298	Upgrade	65	60	85	35	35	56	41	42	63	6.5	6.7	6.5
303304	Upgrade	65	60	85	41	40	65	44	44	68	3.2	4.5	3.0
303310	Upgrade	65	60	85	41	40	65	46	46	69	4.6	5.7	3.7
303311	Upgrade	65	60	85	42	41	67	44	44	67	1.8	3.4	0.3
303314	Upgrade	65	60	85	40	40	65	45	46	68	4.8	5.9	3.8
303319	Upgrade	65	60	85	42	41	65	47	47	70	4.4	5.6	4.6
303325	Upgrade	65	60	85	35	35	58	41	42	64	6.3	6.4	6.4
303330	Upgrade	65	60	85	39	39	62	44	44	68	5.0	5.4	5.5
303334	Upgrade	65	60	85	38	37	62	40	40	62	1.8	3.1	0.1
303337	Upgrade	65	60	85	43	42	68	46	46	69	2.4	4.0	0.6
303338	Upgrade	65	60	85	43	42	66	47	47	70	3.7	4.9	3.9
303343	Upgrade	65	60	85	42	41	67	46	46	70	3.6	4.8	2.9
303344	Upgrade	65	60	85	42	41	67	45	45	68	2.9	4.4	1.3
303345	Upgrade	65	60	85	43	42	66	46	46	70	3.3	4.6	3.1
303347	Upgrade	65	60	85	62	62	88	41	41	64	-21.5	-21.7	-24.0
303351	Upgrade	65	60	85	38	38	60	39	40	62	1.4	1.3	1.6
303353	Upgrade	65	60	85	61	61	86	40	40	63	-20.6	-21.0	-23.0
303356	Upgrade	65	60	85	43	42	67	47	47	71	4.0	5.2	4.0
303358	Upgrade	65	60	85	42	41	65	46	47	69	4.1	5.3	3.7
303361	Upgrade	65	60	85	30	30	50	34	35	57	4.2	4.2	6.3
303365	Upgrade	65	60	85	35	34	61	37	37	59	1.7	3.2	-2.1
303368	Upgrade	65	60	85	42	41	65	47	47	69	4.8	5.8	4.5
303372	Upgrade	65	60	85	63	63	88	44	44	67	-18.8	-19.1	-21.9
303373	Upgrade	65	60	85	44	44	68	50	51	74	6.2	6.2	6.4
303377	Upgrade	65	60	85	42	41	65	45	45	68	3.0	4.3	3.1
303381	Upgrade	65	60	85	42	41	66	45	46	68	2.8	4.3	2.3
303384	Upgrade	65	60	85	43	42	67	46	47	69	3.6	4.8	2.4
303388	Upgrade	65	60	85	54	54	78	39	39	64	-14.6	-14.7	-14.9
303389	Upgrade	65	60	85	41	40	63	46	46	68	5.1	6.1	5.5
303390	Upgrade	65	60	85	42	41	63	48	48	71	6.4	7.1	8.4
303393	Upgrade	65	60	85	38	38	61	43	43	66	5.4	5.5	5.5



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
303397	Upgrade	65	60	85	43	42	67	48	48	71	4.6	5.7	4.1
303401	Upgrade	65	60	85	44	43	67	48	48	70	4.3	5.5	3.7
303404	Upgrade	65	60	85	58	58	86	42	42	65	-15.7	-16.0	-20.7
303411	Upgrade	65	60	85	34	33	60	37	37	59	2.7	4.0	-1.0
303414	Upgrade	65	60	85	31	31	52	35	36	58	4.7	4.8	5.5
303416	Upgrade	65	60	85	38	37	62	40	41	63	2.4	3.5	1.2
303418	Upgrade	65	60	85	41	41	64	46	46	69	4.8	5.8	4.5
303421	Upgrade	65	60	85	43	42	68	46	46	69	3.0	4.5	1.0
303424	Upgrade	65	60	85	42	41	69	43	43	66	0.4	2.1	-2.8
303427	Upgrade	65	60	85	35	35	57	41	41	63	5.6	5.9	6.2
303428	Upgrade	65	60	85	33	33	53	37	37	59	3.7	3.7	5.7
303430	Upgrade	65	60	85	52	52	77	41	41	63	-11.3	-11.1	-13.3
303432	Upgrade	65	60	85	37	36	62	41	41	64	4.1	5.2	1.7
303434	Upgrade	65	60	85	56	56	82	42	42	65	-13.8	-14.1	-16.9
303441	Upgrade	65	60	85	45	46	68	41	41	64	-4.3	-4.3	-3.6
303443	Upgrade	65	60	85	44	43	66	49	49	72	5.0	6.1	6.3
303446	Upgrade	65	60	85	30	29	51	35	36	57	5.7	6.2	6.5
303449	Upgrade	65	60	85	44	43	69	47	47	70	2.7	4.2	0.8
303458	Upgrade	65	60	85	40	39	64	44	44	68	3.9	5.0	3.5
303461	Upgrade	65	60	85	34	33	60	37	37	59	3.1	4.4	-0.5
303465	Upgrade	65	60	85	31	31	55	36	36	59	4.7	5.8	3.5
303467	Upgrade	65	60	85	43	41	67	46	46	69	3.3	4.7	2.5
303468	Upgrade	65	60	85	44	45	68	51	51	74	6.1	6.1	6.4
303469	Upgrade	65	60	85	36	36	58	42	42	65	5.8	5.7	6.2
303470	Upgrade	65	60	85	42	41	68	45	45	68	2.2	3.9	0.0
303474	Upgrade	65	60	85	32	33	54	38	38	60	5.5	5.6	6.7
303479	Upgrade	65	60	85	35	35	57	40	41	62	5.6	5.8	5.7
303483	Upgrade	65	60	85	43	42	66	47	48	71	4.8	5.9	4.6
303485	Upgrade	65	60	85	52	52	76	39	39	61	-12.8	-13.3	-15.2
303488	Upgrade	65	60	85	37	36	60	40	40	62	2.7	3.8	1.6
303489	Upgrade	65	60	85	43	41	68	44	45	68	1.7	3.3	-0.9
303503	Upgrade	65	60	85	43	42	67	45	46	68	2.4	3.9	1.6
303504	Upgrade	65	60	85	40	39	64	44	45	67	3.8	5.1	3.3
303511	Upgrade	65	60	85	33	32	59	36	36	59	2.5	3.9	-0.8
303512	Upgrade	65	60	85	39	37	64	39	39	61	0.2	1.9	-3.3
303513	Upgrade	65	60	85	37	37	60	38	39	61	1.6	1.6	1.3
303525	Upgrade	65	60	85	41	40	65	44	45	68	3.3	4.7	2.9
303530	Upgrade	65	60	85	42	41	66	45	46	69	2.9	4.4	3.1
303531	Upgrade	65	60	85	42	41	68	45	45	68	2.8	4.1	0.8
303533	Upgrade	65	60	85	43	42	68	48	49	72	5.4	6.5	4.0
303544	Upgrade	65	60	85	44	43	66	49	49	72	5.2	6.2	6.0
303546	Upgrade	65	60	85	40	39	65	44	44	67	4.1	5.3	1.8
303547	Upgrade	65	60	85	45	45	69	34	35	57	-10.5	-10.6	-12.3
303549	Upgrade	65	60	85	36	34	62	37	37	60	1.6	3.2	-2.3
303550	Upgrade	65	60	85	44	44	67	50	50	74	6.2	6.1	6.8
303552	Upgrade	65	60	85	39	38	62	44	44	67	4.6	5.6	4.8
303556	Upgrade	65	60	85	39	39	61	44	44	67	5.0	5.5	6.0
303558	Upgrade	65	60	85	42	41	65	47	47	70	4.5	5.5	5.3
303562	Upgrade	65	60	85	35	34	62	35	35	57	-0.1	1.7	-4.8
303563	Upgrade	65	60	85	36	36	57	41	42	64	5.2	5.8	7.0
303568	Upgrade	65	60	85	42	42	67	45	45	68	2.8	2.7	1.5

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
303569	Upgrade	65	60	85	42	42	63	48	49	71	6.1	6.8	7.8
303570	Upgrade	65	60	85	42	41	66	46	47	69	4.3	5.5	3.3
303573	Upgrade	65	60	85	57	58	82	43	43	65	-14.6	-15.0	-17.9
303574	Upgrade	65	60	85	37	37	60	43	43	66	5.6	5.7	6.1
303577	Upgrade	65	60	85	33	32	59	35	35	57	1.9	3.4	-2.1
303582	Upgrade	65	60	85	39	38	65	44	44	67	4.3	5.6	2.3
303584	Upgrade	65	60	85	34	33	60	36	36	58	2.4	3.8	-1.9
303586	Upgrade	65	60	85	35	35	56	41	42	64	6.4	6.5	7.8
303587	Upgrade	65	60	85	42	42	63	48	48	70	5.8	6.6	6.8
303592	Upgrade	65	60	85	56	56	81	43	43	65	-12.3	-12.8	-16.2
303595	Upgrade	65	60	85	38	36	62	39	39	61	0.8	2.3	-1.3
303601	Upgrade	65	60	85	51	51	76	42	42	64	-9.4	-9.7	-12.2
303606	Upgrade	65	60	85	41	40	64	46	46	69	4.8	6.0	5.1
303614	Upgrade	65	60	85	43	43	65	48	49	72	5.2	6.2	6.7
303615	Upgrade	65	60	85	44	44	67	50	51	74	6.0	6.1	6.7
303616	Upgrade	65	60	85	42	40	65	44	45	68	2.9	4.4	2.6
303621	Upgrade	65	60	85	35	35	57	39	40	62	4.2	5.1	4.6
303622	Upgrade	65	60	85	43	44	67	35	35	57	-8.5	-8.5	-9.2
303626	Upgrade	65	60	85	37	36	62	39	40	62	2.5	4.0	0.0
303631	Upgrade	65	60	85	37	37	60	42	42	65	5.2	5.4	5.1
303636	Upgrade	65	60	85	39	38	63	44	44	66	5.0	5.9	3.1
303642	Upgrade	65	60	85	42	41	67	45	45	68	2.6	4.1	0.7
303644	Upgrade	65	60	85	40	40	63	46	46	70	6.3	6.2	7.0
303650	Upgrade	65	60	85	44	43	69	47	47	70	3.0	4.4	1.3
303651	Upgrade	65	60	85	42	41	66	47	47	69	4.5	5.6	3.4
303657	Upgrade	65	60	85	35	34	60	38	38	60	3.0	4.3	0.3
303660	Upgrade	65	60	85	35	35	59	39	40	62	3.8	4.6	2.4
303666	Upgrade	65	60	85	39	38	63	41	41	63	1.6	2.9	-0.3
303667	Upgrade	65	60	85	43	41	68	44	45	67	1.8	3.4	-0.3
303669	Upgrade	65	60	85	38	37	62	40	40	62	1.8	3.3	-0.2
303671	Upgrade	65	60	85	41	41	64	47	47	70	6.0	6.1	5.8
303679	Upgrade	65	60	85	43	42	68	47	48	70	4.2	5.4	2.2
303687	Upgrade	65	60	85	42	41	66	45	46	68	3.6	4.9	2.2
303689	Upgrade	65	60	85	43	42	68	46	46	69	3.0	4.4	1.0
303691	Upgrade	65	60	85	35	35	56	40	40	62	5.0	5.1	6.0
303694	Upgrade	65	60	85	41	40	68	44	45	67	3.0	4.4	-0.6
303696	Upgrade	65	60	85	43	42	66	47	47	70	3.9	5.1	3.6
303699	Upgrade	65	60	85	45	45	68	51	51	74	6.1	6.1	6.7
303701	Upgrade	65	60	85	37	36	64	39	40	62	2.0	3.6	-1.5
303702	Upgrade	65	60	85	43	42	67	46	47	70	3.0	4.4	2.6
303703	Upgrade	65	60	85	44	43	69	46	47	69	2.3	3.9	0.3
303704	Upgrade	65	60	85	36	35	59	39	39	62	3.2	4.2	2.7
303708	Upgrade	65	60	85	43	42	67	47	47	70	3.7	5.0	3.6
303709	Upgrade	65	60	85	43	42	65	49	49	71	5.5	6.6	5.9
303717	Upgrade	65	60	85	43	41	66	46	46	69	3.4	4.8	3.0
303719	Upgrade	65	60	85	44	44	67	49	49	72	4.4	5.6	5.4
303721	Upgrade	65	60	85	44	43	69	47	48	71	3.0	4.6	1.7
303724	Upgrade	65	60	85	42	41	66	46	47	69	3.9	5.2	3.4
303726	Upgrade	65	60	85	41	41	63	47	47	70	5.7	6.1	6.8
303729	Upgrade	65	60	85	44	45	66	41	41	63	-3.8	-3.7	-2.7
303730	Upgrade	65	60	85	36	37	59	42	43	65	5.9	6.0	6.3



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
303733	Upgrade	65	60	85	43	42	68	46	46	69	2.4	4.0	1.2
303734	Upgrade	65	60	85	43	41	67	45	45	68	2.5	4.1	0.7
303737	Upgrade	65	60	85	43	42	66	46	46	69	3.4	4.8	2.8
303738	Upgrade	65	60	85	41	40	63	45	46	69	4.6	5.7	5.5
303743	Upgrade	65	60	85	46	47	67	47	47	71	0.7	0.7	3.5
303744	Upgrade	65	60	85	40	39	61	45	45	67	5.3	5.6	6.2
303746	Upgrade	65	60	85	39	38	63	41	42	63	2.4	3.5	0.7
303751	Upgrade	65	60	85	44	43	70	45	46	68	1.0	2.8	-2.2
303754	Upgrade	65	60	85	44	43	68	46	47	70	2.3	3.9	1.4
303757	Upgrade	65	60	85	40	40	61	44	44	67	4.4	4.8	5.6
303762	Upgrade	65	60	85	43	42	67	47	47	69	3.5	4.8	1.7
303764	Upgrade	65	60	85	40	40	62	46	46	68	5.8	6.1	6.5
303769	Upgrade	65	60	85	39	39	60	44	44	67	5.2	5.6	7.2
303772	Upgrade	65	60	85	41	41	64	47	47	70	5.5	6.4	6.3
303777	Upgrade	65	60	85	41	40	66	46	47	69	5.6	6.6	2.9
303778	Upgrade	65	60	85	48	49	71	51	51	74	2.5	2.6	3.1
303779	Upgrade	65	60	85	45	46	69	52	52	75	6.4	6.3	6.8
303780	Upgrade	65	60	85	34	34	55	38	38	61	4.2	4.3	5.8
303781	Upgrade	65	60	85	45	43	69	47	47	70	2.4	4.0	0.9
303786	Upgrade	65	60	85	37	36	63	40	40	62	2.7	4.2	-0.2
303789	Upgrade	65	60	85	43	41	67	46	46	68	3.0	4.4	1.4
303790	Upgrade	65	60	85	40	40	62	45	45	68	4.7	5.2	5.6
303791	Upgrade	65	60	85	39	39	64	45	45	67	5.3	6.2	3.5
303801	Upgrade	65	60	85	42	41	66	46	47	70	3.8	5.1	3.2
303802	Upgrade	65	60	85	45	43	69	48	48	71	3.0	4.5	1.5
303803	Upgrade	65	60	85	42	42	64	46	46	69	3.7	4.3	4.6
303804	Upgrade	65	60	85	43	42	67	47	48	71	4.1	5.3	4.0
303810	Upgrade	65	60	85	35	35	57	40	40	62	5.2	5.2	5.5
303811	Upgrade	65	60	85	40	39	64	44	44	67	3.7	5.0	3.1
303812	Upgrade	65	60	85	46	46	70	52	52	76	6.1	6.1	6.0
303816	Upgrade	65	60	85	44	43	69	48	48	71	3.8	5.1	2.5
303823	Upgrade	65	60	85	42	40	66	44	44	67	2.4	4.0	1.4
303828	Upgrade	65	60	85	42	40	66	44	44	66	2.2	3.8	0.7
303829	Upgrade	65	60	85	40	39	63	43	43	66	3.2	4.0	3.1
303833	Upgrade	65	60	85	42	41	66	46	46	69	4.0	5.3	3.6
303836	Upgrade	65	60	85	35	35	57	40	40	63	5.3	5.3	5.8
303842	Upgrade	65	60	85	42	41	66	45	46	69	3.5	4.7	3.2
303845	Upgrade	65	60	85	33	33	56	38	39	61	5.4	5.4	5.6
303846	Upgrade	65	60	85	44	44	67	49	50	73	5.6	5.6	6.0
303848	Upgrade	65	60	85	35	35	56	40	40	62	5.2	5.3	5.7
303849	Upgrade	65	60	85	40	41	62	45	45	68	4.2	4.2	5.6
303853	Upgrade	65	60	85	39	39	63	45	45	68	5.7	6.4	5.2
303855	Upgrade	65	60	85	43	41	67	45	45	68	2.2	3.7	0.9
303863	Upgrade	65	60	85	38	37	63	41	42	64	3.3	4.7	0.7
303866	Upgrade	65	60	85	41	40	64	46	46	68	4.5	5.7	4.3
303875	Upgrade	65	60	85	46	47	69	49	49	72	2.1	2.2	2.2
303877	Upgrade	65	60	85	44	43	68	47	47	71	3.6	4.9	2.4
303887	Upgrade	65	60	85	43	43	66	42	42	64	-1.5	-1.5	-2.4
303889	Upgrade	65	60	85	46	46	69	53	53	77	6.6	6.7	7.4
303890	Upgrade	65	60	85	34	34	56	39	39	61	4.7	4.8	5.4
303892	Upgrade	65	60	85	42	41	66	45	45	68	3.2	4.4	2.4

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
303893	Upgrade	65	60	85	44	43	68	47	47	70	2.6	4.1	2.1
303908	Upgrade	65	60	85	43	41	67	45	45	68	2.0	3.5	0.6
303910	Upgrade	65	60	85	39	38	62	42	43	65	3.7	4.7	3.3
303912	Upgrade	65	60	85	38	38	63	45	45	68	6.2	6.6	5.2
303923	Upgrade	65	60	85	46	46	69	52	53	76	6.4	6.4	6.9
303925	Upgrade	65	60	85	44	43	69	48	48	72	3.7	5.0	2.9
303927	Upgrade	65	60	85	45	44	69	49	49	72	4.3	5.5	3.2
303929	Upgrade	65	60	85	43	42	68	46	46	69	2.5	3.8	1.0
303932	Upgrade	65	60	85	40	39	64	46	46	68	5.7	6.5	4.7
303933	Upgrade	65	60	85	40	39	65	45	45	67	4.1	5.4	2.8
303934	Upgrade	65	60	85	41	41	64	46	46	69	4.7	5.7	5.4
303936	Upgrade	65	60	85	45	44	68	49	49	72	4.0	5.2	3.6
303937	Upgrade	65	60	85	43	41	67	45	45	68	2.4	3.9	1.0
303945	Upgrade	65	60	85	45	44	70	47	48	71	2.4	4.0	0.6
303948	Upgrade	65	60	85	44	43	69	45	46	68	1.2	2.9	-0.6
303952	Upgrade	65	60	85	43	42	67	46	46	69	3.2	4.6	1.8
303959	Upgrade	65	60	85	32	33	56	38	39	62	5.9	6.0	6.2
303960	Upgrade	65	60	85	46	46	67	47	47	70	0.8	0.8	3.1
303962	Upgrade	65	60	85	43	43	67	48	48	70	4.3	5.5	3.3
303963	Upgrade	65	60	85	44	44	68	49	49	72	4.5	5.6	4.0
303966	Upgrade	65	60	85	46	45	70	49	49	72	3.4	4.8	2.1
303969	Upgrade	65	60	85	40	40	64	44	44	67	3.5	4.7	3.6
303972	Upgrade	65	60	85	44	43	68	49	50	72	5.5	6.3	4.3
303984	Upgrade	65	60	85	47	48	70	54	54	78	6.5	6.5	7.3
303986	Upgrade	65	60	85	42	41	63	46	46	70	4.2	5.0	6.4
303989	Upgrade	65	60	85	41	40	63	46	46	70	5.2	6.0	6.2
303991	Upgrade	65	60	85	43	42	68	46	47	70	2.9	4.3	2.3
303996	Upgrade	65	60	85	41	41	63	46	46	68	4.9	5.3	5.8
303999	Upgrade	65	60	85	44	44	68	49	49	72	4.5	5.6	3.9
304002	Upgrade	65	60	85	41	41	65	48	48	71	6.1	6.8	5.5
304005	Upgrade	65	60	85	43	43	66	50	50	73	6.6	6.6	7.1
304011	Upgrade	65	60	85	43	42	66	47	48	70	4.7	5.8	4.1
304012	Upgrade	65	60	85	42	41	64	47	47	69	5.0	5.2	4.9
304014	Upgrade	65	60	85	45	44	69	48	48	71	2.8	4.3	2.2
304015	Upgrade	65	60	85	53	53	77	43	43	64	-10.0	-10.7	-13.3
304018	Upgrade	65	60	85	41	40	63	46	46	68	4.9	6.0	4.8
304020	Upgrade	65	60	85	42	41	64	46	47	70	4.6	5.7	5.3
304026	Upgrade	65	60	85	40	40	63	46	46	68	5.7	6.5	5.7
304027	Upgrade	65	60	85	43	42	67	46	46	69	2.9	4.1	2.4
304031	Upgrade	65	60	85	43	42	69	46	47	70	2.9	4.4	1.0
304033	Upgrade	65	60	85	45	46	69	48	48	71	2.3	2.4	2.1
304037	Upgrade	65	60	85	44	44	68	49	49	72	4.7	4.7	4.0
304039	Upgrade	65	60	85	41	41	63	45	45	68	4.1	4.9	4.7
304040	Upgrade	65	60	85	44	42	68	46	46	69	1.9	3.5	0.3
304041	Upgrade	65	60	85	43	42	66	47	47	70	3.6	4.8	4.1
304042	Upgrade	65	60	85	45	44	69	49	49	72	3.7	5.0	2.9
304045	Upgrade	65	60	85	43	42	65	47	48	70	4.5	5.7	5.0
304051	Upgrade	65	60	85	43	43	66	49	49	72	5.4	6.1	5.9
304052	Upgrade	65	60	85	42	42	67	48	48	71	5.6	6.5	4.7
304064	Upgrade	65	60	85	45	45	68	50	50	73	4.9	5.2	5.3
304065	Upgrade	65	60	85	44	43	67	49	49	72	5.4	6.3	5.2



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
304069	Upgrade	65	60	85	44	45	66	49	50	73	4.9	4.9	6.5
304072	Upgrade	65	60	85	48	48	71	48	48	71	-0.3	-0.3	-0.3
304081	Upgrade	65	60	85	48	48	70	53	54	77	5.8	5.8	6.8
304086	Upgrade	65	60	85	35	34	60	38	39	60	3.0	4.2	0.1
304088	Upgrade	65	60	85	43	42	67	45	45	68	1.6	3.1	1.2
304093	Upgrade	65	60	85	42	41	65	47	47	70	4.6	5.7	4.6
304100	Upgrade	65	60	85	47	47	69	53	53	76	6.0	6.2	6.9
304101	Upgrade	65	60	85	46	44	71	48	49	72	2.8	4.3	1.1
304112	Upgrade	65	60	85	42	41	65	46	46	68	3.9	5.1	3.2
304113	Upgrade	65	60	85	33	32	57	38	39	61	5.4	6.3	4.4
304115	Upgrade	65	60	85	43	42	67	47	47	70	3.3	4.6	2.7
304119	Upgrade	65	60	85	43	42	68	46	46	69	2.6	4.1	1.3
304120	Upgrade	65	60	85	44	43	69	47	47	70	2.5	4.0	1.2
304125	Upgrade	65	60	85	42	42	65	48	49	72	6.2	6.3	6.5
304133	Upgrade	65	60	85	33	33	55	38	38	61	5.1	5.0	6.0
304142	Upgrade	65	60	85	47	47	69	53	54	77	6.3	6.5	7.9
304143	Upgrade	65	60	85	45	44	70	48	48	71	3.0	4.4	1.3
304145	Upgrade	65	60	85	43	42	66	47	47	69	3.8	5.0	3.0
304146	Upgrade	65	60	85	44	42	69	46	46	69	2.2	3.7	0.2
304153	Upgrade	65	60	85	42	41	65	47	47	70	4.7	5.8	5.4
304155	Upgrade	65	60	85	50	50	72	56	57	80	6.6	6.8	7.9
304156	Upgrade	65	60	85	47	48	70	53	54	77	6.1	6.1	6.6
304160	Upgrade	65	60	85	47	47	71	49	50	73	2.3	2.4	1.9
304162	Upgrade	65	60	85	45	44	68	49	50	73	4.7	5.8	4.5
304164	Upgrade	65	60	85	43	42	69	45	45	68	1.5	3.2	-0.7
304165	Upgrade	65	60	85	45	45	67	50	51	74	5.5	5.8	6.3
304167	Upgrade	65	60	85	46	45	67	50	50	73	4.6	5.0	5.6
304174	Upgrade	65	60	85	43	42	67	45	46	68	2.3	3.8	1.2
304175	Upgrade	65	60	85	36	36	62	39	40	61	2.9	4.1	-0.6
304176	Upgrade	65	60	85	43	43	67	47	48	71	3.9	5.0	4.0
304179	Upgrade	65	60	85	46	44	71	47	47	70	1.3	2.9	-0.8
304182	Upgrade	65	60	85	44	44	67	51	51	74	6.8	6.9	7.0
304183	Upgrade	65	60	85	45	44	69	47	48	70	2.8	4.2	1.3
304188	Upgrade	65	60	85	53	53	78	44	44	65	-9.3	-9.7	-13.2
304190	Upgrade	65	60	85	35	35	57	40	40	61	5.1	5.2	4.1
304192	Upgrade	65	60	85	45	44	66	50	51	74	5.4	6.2	7.6
304193	Upgrade	65	60	85	46	46	69	51	51	75	5.1	5.4	5.2
304198	Upgrade	65	60	85	40	39	65	45	46	68	5.2	6.2	3.2
304200	Upgrade	65	60	85	46	46	68	51	51	74	5.2	5.6	5.7
304204	Upgrade	65	60	85	44	43	69	47	47	70	3.0	4.4	1.1
304205	Upgrade	65	60	85	45	45	67	51	51	75	5.8	6.3	7.3
304207	Upgrade	65	60	85	44	43	68	48	49	71	4.0	5.3	3.4
304209	Upgrade	65	60	85	33	33	54	37	37	59	4.1	4.2	4.9
304211	Upgrade	65	60	85	45	45	68	50	51	74	5.8	6.0	6.2
304212	Upgrade	65	60	85	43	42	66	47	48	70	4.4	5.6	3.9
304217	Upgrade	65	60	85	46	46	69	52	52	75	5.7	5.7	5.7
304219	Upgrade	65	60	85	33	34	57	39	39	62	5.7	5.6	5.4
304220	Upgrade	65	60	85	36	36	59	42	42	65	5.9	6.0	5.6
304222	Upgrade	65	60	85	45	44	69	47	48	70	2.5	4.0	1.5
304227	Upgrade	65	60	85	53	53	77	44	44	66	-8.7	-9.2	-11.3
304229	Upgrade	65	60	85	33	33	55	38	38	60	4.9	4.9	5.8

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
304238	Upgrade	65	60	85	43	42	68	47	48	70	4.0	5.3	2.3
304239	Upgrade	65	60	85	48	48	70	55	55	78	6.7	6.6	8.2
304240	Upgrade	65	60	85	45	44	67	50	50	74	5.3	6.0	6.6
304241	Upgrade	65	60	85	35	35	56	40	41	62	5.4	5.5	6.4
304245	Upgrade	65	60	85	41	41	64	46	46	69	5.3	5.3	5.3
304248	Upgrade	65	60	85	44	43	69	46	46	70	2.3	3.8	1.0
304255	Upgrade	65	60	85	44	42	68	47	47	69	3.4	4.8	1.4
304258	Upgrade	65	60	85	43	43	67	50	50	74	6.3	6.4	6.2
304260	Upgrade	65	60	85	41	41	64	48	48	71	7.0	7.0	7.2
304261	Upgrade	65	60	85	42	41	65	47	47	70	4.5	5.6	4.7
304266	Upgrade	65	60	85	35	35	57	39	40	61	4.5	4.6	3.6
304267	Upgrade	65	60	85	44	43	68	50	50	73	5.9	6.6	5.0
304269	Upgrade	65	60	85	41	42	64	48	49	71	6.9	7.0	6.5
304276	Upgrade	65	60	85	45	43	69	46	47	70	1.6	3.2	0.2
304282	Upgrade	65	60	85	44	43	70	47	47	71	3.3	4.6	1.0
304283	Upgrade	65	60	85	42	41	67	46	46	69	3.7	5.0	1.4
304288	Upgrade	65	60	85	44	43	69	48	49	72	4.0	5.4	3.2
304291	Upgrade	65	60	85	48	48	70	55	55	78	6.5	6.6	8.1
304292	Upgrade	65	60	85	44	43	68	49	50	73	5.7	6.5	4.6
304295	Upgrade	65	60	85	47	47	71	54	55	78	7.2	7.2	7.5
304298	Upgrade	65	60	85	46	46	69	53	54	77	7.2	7.3	7.9
304304	Upgrade	65	60	85	33	33	54	37	37	59	4.2	4.3	4.8
304309	Upgrade	65	60	85	42	41	65	46	46	69	3.5	4.8	3.3
304311	Upgrade	65	60	85	40	39	64	45	46	67	5.1	6.3	3.4
304316	Upgrade	65	60	85	46	44	70	48	48	71	2.4	4.0	1.1
304320	Upgrade	65	60	85	45	44	68	50	50	72	4.7	5.9	3.9
304321	Upgrade	65	60	85	44	43	66	49	49	72	4.8	5.9	5.7
304322	Upgrade	65	60	85	44	43	68	46	47	69	2.6	4.1	1.0
304330	Upgrade	65	60	85	47	47	71	47	48	71	0.2	0.3	0.2
304331	Upgrade	65	60	85	46	46	69	53	53	77	6.9	7.0	7.9
304335	Upgrade	65	60	85	42	42	65	47	48	71	5.1	6.1	6.0
304336	Upgrade	65	60	85	29	29	52	35	36	58	6.0	6.7	6.3
304337	Upgrade	65	60	85	43	42	65	47	47	71	4.5	5.7	5.2
304338	Upgrade	65	60	85	45	43	71	45	46	69	0.6	2.3	-2.3
304341	Upgrade	65	60	85	46	45	67	51	51	75	5.4	5.9	8.0
304344	Upgrade	65	60	85	44	43	70	45	46	68	1.1	2.7	-1.4
304345	Upgrade	65	60	85	45	45	70	52	52	76	6.9	7.2	5.9
304347	Upgrade	65	60	85	28	28	47	35	35	57	7.1	7.3	9.2
304348	Upgrade	65	60	85	45	44	70	49	49	72	3.4	4.7	1.9
304351	Upgrade	65	60	85	48	49	72	48	48	71	-0.7	-0.7	-0.6
304357	Upgrade	65	60	85	47	47	69	53	54	77	6.4	6.6	8.0
304361	Upgrade	65	60	85	44	43	68	47	48	70	2.9	4.4	2.7
304362	Upgrade	65	60	85	45	45	70	49	50	72	4.0	5.2	2.3
304365	Upgrade	65	60	85	46	46	68	52	52	75	5.9	6.1	7.4
304369	Upgrade	65	60	85	46	44	71	46	46	69	0.2	1.9	-2.6
304376	Upgrade	65	60	85	46	45	71	47	47	69	0.5	2.3	-1.9
304382	Upgrade	65	60	85	46	45	70	50	50	73	3.4	4.8	2.6
304384	Upgrade	65	60	85	38	39	61	45	45	68	6.3	6.3	6.8
304386	Upgrade	65	60	85	44	43	69	45	46	68	1.3	2.9	-1.1
304387	Upgrade	65	60	85	40	39	63	45	45	68	5.0	5.9	5.4
304389	Upgrade	65	60	85	46	46	68	53	53	76	7.0	7.4	8.2



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
304397	Upgrade	65	60	85	46	45	71	47	47	70	0.7	2.4	-1.9
304398	Upgrade	65	60	85	43	42	67	46	47	71	3.1	4.5	3.9
304404	Upgrade	65	60	85	35	35	57	41	41	63	5.9	6.0	6.1
304408	Upgrade	65	60	85	45	45	66	51	51	74	6.0	6.3	8.6
304409	Upgrade	65	60	85	43	42	66	47	48	70	4.6	5.7	4.9
304410	Upgrade	65	60	85	41	40	66	44	44	67	3.3	4.8	0.4
304413	Upgrade	65	60	85	39	39	62	41	41	64	2.2	2.2	2.2
304417	Upgrade	65	60	85	46	45	71	50	50	73	3.9	5.1	1.7
304420	Upgrade	65	60	85	43	43	67	49	49	71	5.6	6.4	4.9
304421	Upgrade	65	60	85	42	41	67	46	46	69	3.1	4.6	1.1
304424	Upgrade	65	60	85	33	32	58	36	37	59	3.5	4.6	0.5
304425	Upgrade	65	60	85	49	49	71	55	55	79	6.5	6.7	7.1
304426	Upgrade	65	60	85	48	48	70	54	54	78	5.9	6.1	7.3
304429	Upgrade	65	60	85	47	47	69	54	54	77	6.4	6.8	8.6
304434	Upgrade	65	60	85	38	39	61	45	45	67	6.3	6.3	5.9
304436	Upgrade	65	60	85	45	44	70	47	48	70	2.5	3.9	0.2
304440	Upgrade	65	60	85	43	42	67	47	47	70	3.5	4.8	2.2
304442	Upgrade	65	60	85	46	45	70	51	51	73	4.3	5.4	2.5
304443	Upgrade	65	60	85	47	47	70	53	54	77	6.4	6.5	7.0
304445	Upgrade	65	60	85	45	44	69	48	48	71	3.1	4.3	1.4
304447	Upgrade	65	60	85	47	47	71	50	50	73	3.1	3.1	2.7
304448	Upgrade	65	60	85	42	41	67	47	47	70	5.1	6.1	2.6
304449	Upgrade	65	60	85	47	47	69	54	54	77	6.8	7.1	8.2
304453	Upgrade	65	60	85	44	42	69	45	46	68	1.7	3.3	-0.7
304454	Upgrade	65	60	85	33	32	57	39	39	58	5.7	6.4	0.9
304461	Upgrade	65	60	85	45	44	68	50	50	72	5.0	6.0	4.9
304462	Upgrade	65	60	85	48	48	72	41	42	64	-6.8	-6.9	-7.8
304464	Upgrade	65	60	85	48	48	70	54	55	78	6.6	6.8	8.5
304468	Upgrade	65	60	85	45	44	71	47	48	70	1.9	3.5	-0.1
304470	Upgrade	65	60	85	46	45	71	49	49	72	2.8	4.4	1.1
304472	Upgrade	65	60	85	44	43	69	46	46	71	1.9	3.5	2.0
304474	Upgrade	65	60	85	37	38	58	43	43	64	5.4	5.5	6.2
304475	Upgrade	65	60	85	46	45	72	48	48	71	1.5	3.1	-1.1
304476	Upgrade	65	60	85	48	49	70	55	56	79	6.9	6.8	8.4
304478	Upgrade	65	60	85	34	34	56	40	40	62	5.7	5.7	6.0
304481	Upgrade	65	60	85	39	40	62	46	46	68	6.5	6.5	6.1
304483	Upgrade	65	60	85	39	39	61	47	47	70	7.9	7.9	9.5
304485	Upgrade	65	60	85	46	45	71	48	48	71	1.4	3.1	0.4
304486	Upgrade	65	60	85	45	44	71	47	48	71	2.3	3.8	0.2
304487	Upgrade	65	60	85	44	43	68	48	49	71	3.9	5.2	3.3
304488	Upgrade	65	60	85	43	42	66	47	48	70	4.3	5.5	4.6
304491	Upgrade	65	60	85	45	44	70	50	50	72	4.8	6.0	2.5
304492	Upgrade	65	60	85	47	47	69	53	53	77	5.8	6.1	7.3
304494	Upgrade	65	60	85	46	45	71	48	49	72	2.5	4.2	0.5
304496	Upgrade	65	60	85	33	32	58	37	37	59	4.5	5.4	0.7
304500	Upgrade	65	60	85	37	37	59	43	43	65	5.7	5.6	5.7
304502	Upgrade	65	60	85	44	43	69	48	48	70	3.2	4.7	1.5
304503	Upgrade	65	60	85	46	45	72	47	47	70	0.6	2.5	-2.2
304505	Upgrade	65	60	85	45	44	69	50	50	73	4.9	6.1	3.4
304506	Upgrade	65	60	85	45	44	67	50	51	73	5.4	6.5	6.1
304507	Upgrade	65	60	85	43	43	65	49	50	72	6.5	6.5	6.3

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
304508	Upgrade	65	60	85	44	43	68	47	47	70	2.8	4.2	2.3
304514	Upgrade	65	60	85	47	46	73	48	48	71	0.5	2.2	-2.1
304515	Upgrade	65	60	85	44	43	68	47	47	70	2.9	4.2	2.0
304516	Upgrade	65	60	85	49	49	72	55	55	79	6.4	6.5	7.3
304518	Upgrade	65	60	85	44	45	67	42	42	65	-2.5	-2.5	-2.3
304520	Upgrade	65	60	85	49	49	70	55	56	79	6.5	6.8	8.6
304521	Upgrade	65	60	85	41	40	66	46	47	69	5.1	6.1	2.9
304526	Upgrade	65	60	85	43	42	66	47	48	70	4.4	5.6	3.7
304530	Upgrade	65	60	85	50	50	73	57	57	81	7.1	7.3	8.0
304531	Upgrade	65	60	85	45	44	69	49	49	71	3.6	4.9	1.9
304532	Upgrade	65	60	85	46	44	72	47	47	69	0.9	2.5	-2.2
304533	Upgrade	65	60	85	41	41	65	38	38	61	-3.1	-3.0	-4.2
304536	Upgrade	65	60	85	45	44	71	47	47	69	1.6	3.3	-1.4
304537	Upgrade	65	60	85	47	47	69	52	53	76	5.9	5.9	6.5
304541	Upgrade	65	60	85	45	44	69	49	49	72	3.7	5.0	2.9
304547	Upgrade	65	60	85	45	44	71	46	47	69	1.4	3.0	-2.3
304548	Upgrade	65	60	85	49	49	70	55	56	79	6.9	7.0	8.6
304550	Upgrade	65	60	85	46	45	70	48	49	72	2.3	3.9	1.3
304554	Upgrade	65	60	85	35	34	60	40	40	61	5.2	6.2	0.7
304558	Upgrade	65	60	85	43	42	65	48	48	71	4.9	6.0	5.7
304559	Upgrade	65	60	85	49	49	71	56	56	79	6.9	7.0	8.8
304564	Upgrade	65	60	85	43	42	67	48	48	70	4.5	5.6	3.2
304567	Upgrade	65	60	85	49	49	71	55	55	79	6.3	6.5	8.0
304568	Upgrade	65	60	85	43	42	68	47	47	70	3.7	5.0	2.4
304569	Upgrade	65	60	85	45	44	68	50	51	73	5.6	6.4	5.6
304571	Upgrade	65	60	85	42	41	67	47	47	69	4.8	5.9	2.9
304574	Upgrade	65	60	85	46	45	72	48	49	71	2.1	3.7	-1.1
304575	Upgrade	65	60	85	47	46	72	51	51	75	3.5	4.8	3.0
304576	Upgrade	65	60	85	44	44	66	50	50	73	6.1	6.1	6.6
304577	Upgrade	65	60	85	36	36	59	40	40	63	4.2	4.2	3.5
304581	Upgrade	65	60	85	42	43	64	49	49	71	6.4	6.4	6.6
304583	Upgrade	65	60	85	48	48	71	54	54	78	5.8	6.0	7.1
304586	Upgrade	65	60	85	48	48	71	55	55	79	7.0	7.0	8.0
304589	Upgrade	65	60	85	47	46	73	49	50	72	2.1	3.8	-0.3
304592	Upgrade	65	60	85	45	44	69	48	49	71	3.2	4.6	2.0
304603	New	60	55	80	-	-	-	43	43	66	-	-	-
304605	Upgrade	65	60	85	47	46	73	50	50	73	2.8	4.3	0.5
304609	Upgrade	65	60	85	43	43	68	47	48	71	3.8	4.9	2.4
304611	Upgrade	65	60	85	31	30	55	37	37	57	6.0	6.7	2.3
304612	Upgrade	65	60	85	56	56	81	37	37	56	-18.5	-19.4	-24.8
304616	Upgrade	65	60	85	47	46	68	53	53	77	6.2	6.9	8.3
304617	Upgrade	65	60	85	45	44	70	46	46	70	1.2	2.8	-0.3
304619	Upgrade	65	60	85	45	44	69	48	48	72	2.9	4.4	2.6
304621	Upgrade	65	60	85	41	41	63	47	48	69	6.4	6.4	6.2
304623	Upgrade	65	60	85	42	42	66	48	48	71	5.8	6.4	4.8
304627	Upgrade	65	60	85	42	42	66	47	48	70	4.9	5.9	4.4
304629	Upgrade	65	60	85	38	37	63	41	41	63	3.7	4.9	-0.2
304630	Upgrade	65	60	85	44	43	67	48	48	71	4.2	5.4	3.5
304635	Upgrade	65	60	85	48	48	70	55	55	79	6.8	6.8	8.6
304636	Upgrade	65	60	85	61	61	87	66	66	90	4.5	4.4	3.0
304642	Upgrade	65	60	85	44	43	67	49	49	72	4.7	5.9	5.1



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
304643	Upgrade	65	60	85	42	42	67	47	47	70	4.5	5.8	2.7
304644	Upgrade	65	60	85	49	50	72	56	56	80	6.6	6.6	8.0
304645	Upgrade	65	60	85	56	56	81	37	36	56	-19.1	-20.1	-25.0
304647	Upgrade	65	60	85	34	34	57	39	40	62	5.4	5.4	5.1
304648	Upgrade	65	60	85	49	47	74	50	50	73	1.1	2.9	-1.0
304656	Upgrade	65	60	85	47	46	69	51	52	75	4.3	5.3	5.3
304660	Upgrade	65	60	85	46	45	72	47	47	70	0.7	2.5	-2.2
304667	Upgrade	65	60	85	47	47	69	54	54	77	6.7	7.0	7.8
304673	Upgrade	65	60	85	46	45	69	50	50	73	4.3	5.5	3.8
304675	Upgrade	65	60	85	47	46	73	48	48	71	0.6	2.3	-2.1
304677	Upgrade	65	60	85	47	47	70	53	53	77	5.6	6.1	7.0
304678	New	60	55	80	-	-	-	48	48	71	-	-	-
304679	Upgrade	65	60	85	47	45	72	46	46	69	-0.6	1.3	-3.3
304681	Upgrade	65	60	85	45	44	68	48	49	71	3.7	5.0	3.1
304683	Upgrade	65	60	85	43	42	66	48	48	71	4.5	5.7	4.6
304686	Upgrade	65	60	85	46	45	73	46	46	69	-0.6	1.3	-3.8
304687	Upgrade	65	60	85	42	41	66	47	47	70	4.6	5.6	3.7
304688	Upgrade	65	60	85	46	45	72	49	49	72	2.1	3.6	0.4
304689	Upgrade	65	60	85	40	39	65	44	44	66	4.0	5.3	0.8
304692	Upgrade	65	60	85	49	49	72	56	56	80	6.8	6.8	7.8
304695	Upgrade	65	60	85	45	44	67	50	50	72	5.3	6.3	5.6
304696	Upgrade	65	60	85	47	46	74	47	47	69	-0.7	1.2	-4.5
304697	Upgrade	65	60	85	48	48	71	56	56	79	7.3	7.3	8.5
304698	Upgrade	65	60	85	46	45	72	48	48	71	1.9	3.4	-0.4
304701	Upgrade	65	60	85	48	47	74	48	48	70	-0.7	1.1	-3.8
304703	Upgrade	65	60	85	45	44	69	49	49	71	3.3	4.8	1.8
304706	Upgrade	65	60	85	37	38	61	42	43	64	5.1	5.2	3.5
304707	Upgrade	65	60	85	41	42	65	48	48	71	6.6	6.7	5.5
304711	Upgrade	65	60	85	42	42	65	48	48	71	5.8	5.9	6.0
304714	Upgrade	65	60	85	49	48	71	53	53	75	4.5	5.4	3.6
304715	New	60	55	80	-	-	-	49	49	72	-	-	-
304716	Upgrade	65	60	85	41	41	65	47	48	71	6.6	6.7	5.6
304719	Upgrade	65	60	85	47	46	73	47	48	70	-0.1	1.8	-3.4
304723	Upgrade	65	60	85	49	49	71	56	56	80	7.2	7.1	8.7
304730	New	60	55	80	-	-	-	38	39	61	-	-	-
304739	Upgrade	65	60	85	51	51	73	58	58	82	7.2	7.4	8.2
304740	Upgrade	65	60	85	48	47	71	52	53	76	4.9	5.7	4.7
304742	Upgrade	65	60	85	47	46	74	49	49	72	1.3	2.8	-1.9
304746	Upgrade	65	60	85	46	45	70	51	51	74	4.8	5.9	4.2
304750	Upgrade	65	60	85	46	46	69	53	53	77	7.1	7.4	7.7
304751	Upgrade	65	60	85	42	41	65	46	46	68	4.1	5.3	2.8
304753	Upgrade	65	60	85	47	46	70	51	51	74	3.6	4.9	3.7
304755	Upgrade	65	60	85	40	40	63	46	47	69	6.3	6.3	6.1
304756	New	60	55	80	-	-	-	39	40	63	-	-	-
304757	Upgrade	65	60	85	48	48	69	54	54	77	5.9	6.3	8.0
304762	Upgrade	65	60	85	48	47	74	50	50	73	1.6	3.2	-0.4
304764	Upgrade	65	60	85	44	43	66	49	49	71	4.7	5.8	4.5
304766	New	60	55	80	-	-	-	48	49	72	-	-	-
304775	Upgrade	65	60	85	43	42	66	48	48	71	5.1	6.2	4.5
304776	Upgrade	65	60	85	46	45	71	48	48	71	1.6	3.1	0.1
304779	Upgrade	65	60	85	49	47	74	49	49	72	0.1	2.0	-2.4

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax
304780	Upgrade	65	60	85	47	46	73	50	50	73	2.5	4.0	0.3
304782	Upgrade	65	60	85	49	49	72	56	57	80	7.1	7.2	8.7
304783	Upgrade	65	60	85	46	45	70	50	51	73	4.0	5.3	3.9
304787	Upgrade	65	60	85	49	49	73	49	49	72	-0.6	-0.5	-1.0
304788	Upgrade	65	60	85	40	40	63	46	47	69	6.6	6.7	5.9
304790	Upgrade	65	60	85	45	44	70	47	47	70	1.4	3.1	0.0
304792	Upgrade	65	60	85	49	49	72	57	57	80	7.4	7.3	8.8
304800	Upgrade	65	60	85	49	49	73	47	47	70	-1.8	-1.7	-2.5
304801	Upgrade	65	60	85	47	45	71	47	47	70	0.2	2.0	-1.1
304804	Upgrade	65	60	85	44	43	68	46	47	70	2.2	3.7	1.8
304807	Upgrade	65	60	85	46	45	70	50	50	73	3.7	4.9	3.2
304808	Upgrade	65	60	85	42	41	67	46	46	67	4.1	5.3	0.8
304818	Upgrade	65	60	85	41	41	64	48	48	70	6.5	6.5	6.5
304822	Upgrade	65	60	85	49	49	71	54	54	77	4.9	5.7	5.1
304824	Upgrade	65	60	85	42	42	66	48	48	71	5.8	5.7	5.6
304825	Upgrade	65	60	85	43	42	66	48	48	70	4.9	5.9	4.3
304826	Upgrade	65	60	85	58	59	83	45	44	67	-13.6	-14.2	-16.7
304827	Upgrade	65	60	85	49	47	75	49	49	72	0.0	1.8	-3.0
304829	Upgrade	65	60	85	47	47	71	55	55	79	7.3	7.6	8.1
304830	Upgrade	65	60	85	40	41	64	47	47	70	6.4	6.5	5.9
304832	Upgrade	65	60	85	42	43	65	48	49	71	5.9	5.9	5.5
304833	Upgrade	65	60	85	39	40	63	45	46	69	6.1	6.2	5.9
304834	Upgrade	65	60	85	49	49	71	56	56	80	7.2	7.4	8.9
304835	Upgrade	65	60	85	50	50	72	57	57	80	7.2	7.3	8.3
304839	Upgrade	65	60	85	43	42	67	47	47	70	4.1	5.4	3.4
304841	Upgrade	65	60	85	47	46	73	49	50	73	1.8	3.4	-0.9
304844	Upgrade	65	60	85	47	46	73	48	48	71	0.3	2.1	-2.5
304846	Upgrade	65	60	85	41	41	65	47	47	69	5.5	6.5	4.3
304850	Upgrade	65	60	85	45	45	66	51	51	75	6.2	6.3	8.4
304856	Upgrade	65	60	85	48	46	74	47	48	70	-0.2	1.7	-3.3
304859	Upgrade	65	60	85	49	49	71	56	56	80	7.4	7.3	8.8
304863	Upgrade	65	60	85	49	49	71	56	57	80	6.9	7.2	9.0
304866	Upgrade	65	60	85	48	47	72	51	51	74	3.4	4.7	2.1
304872	Upgrade	65	60	85	50	50	72	57	57	81	7.0	7.3	8.6
304878	Upgrade	65	60	85	49	48	75	49	49	72	-0.4	1.4	-2.6
304882	Upgrade	65	60	85	50	48	77	48	48	71	-1.8	0.3	-5.8
304884	Upgrade	65	60	85	38	39	62	45	45	68	6.3	6.4	5.9
304888	Upgrade	65	60	85	40	40	63	46	47	69	6.6	6.7	6.6
304890	Upgrade	65	60	85	47	46	72	48	49	71	1.6	3.2	-0.6
304894	Upgrade	65	60	85	50	50	72	56	57	80	6.9	7.0	8.4
304895	Upgrade	65	60	85	43	42	67	47	48	70	3.9	5.1	3.2
304897	Upgrade	65	60	85	48	47	73	49	50	73	1.4	3.1	-0.2
304902	Upgrade	65	60	85	47	46	73	49	49	72	1.9	3.4	-0.6
304903	Upgrade	65	60	85	48	48	71	55	55	78	6.2	6.7	7.5
304908	Upgrade	65	60	85	39	40	62	46	46	69	6.4	6.4	6.9
304909	Upgrade	65	60	85	44	43	66	48	49	71	4.8	5.9	4.8
304914	Upgrade	65	60	85	49	48	74	51	51	74	1.7	3.3	0.7
304915	Upgrade	65	60	85	50	50	73	57	57	81	7.2	7.2	8.3
304919	Upgrade	65	60	85	49	47	74	49	50	73	0.5	2.3	-1.0
304924	Upgrade	65	60	85	49	50	73	56	57	80	6.9	6.9	7.2
304930	Upgrade	65	60	85	44	45	66	51	51	73	6.4	6.5	6.9



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
304932	Upgrade	65	60	85	49	50	72	57	57	80	7.1	7.2	8.6
304933	Upgrade	65	60	85	42	41	67	48	48	71	6.1	6.6	4.1
304936	Upgrade	65	60	85	45	46	67	48	49	72	3.0	3.0	5.4
304942	Upgrade	65	60	85	42	42	65	48	48	71	5.7	5.7	5.3
304944	Upgrade	65	60	85	45	43	68	48	48	70	3.2	4.7	2.0
304945	Upgrade	65	60	85	50	50	73	57	57	81	6.8	7.1	8.3
304948	Upgrade	65	60	85	44	43	68	48	48	70	3.3	4.7	2.6
304949	Upgrade	65	60	85	37	38	61	41	41	63	3.7	3.7	2.7
304952	Upgrade	65	60	85	49	48	73	53	53	76	3.8	5.0	3.3
304955	Upgrade	65	60	85	39	39	61	45	45	67	6.3	6.4	5.9
304958	Upgrade	65	60	85	54	55	80	45	45	68	-9.0	-9.4	-12.0
304962	Upgrade	65	60	85	47	45	72	48	48	73	1.2	2.9	1.4
304965	Upgrade	65	60	85	44	43	67	49	49	72	4.7	5.9	4.8
304966	Upgrade	65	60	85	45	45	67	52	52	75	6.6	7.1	8.1
304967	Upgrade	65	60	85	44	43	68	48	48	69	3.3	4.6	1.0
304968	Upgrade	65	60	85	42	42	64	48	49	71	6.7	6.8	6.3
304969	Upgrade	65	60	85	45	44	68	51	51	75	6.6	7.0	6.7
304972	Upgrade	65	60	85	48	47	73	50	51	74	2.5	4.0	0.3
304980	Upgrade	65	60	85	49	49	72	56	56	80	6.8	6.9	7.3
304982	Upgrade	65	60	85	50	50	72	57	57	80	6.7	6.8	8.4
304987	Upgrade	65	60	85	50	50	72	57	57	81	6.9	7.2	8.5
304988	Upgrade	65	60	85	46	45	69	51	51	73	4.8	5.8	4.8
304991	Upgrade	65	60	85	45	45	67	51	51	73	6.0	6.8	5.7
304992	Upgrade	65	60	85	39	39	63	45	46	69	6.4	6.4	5.7
304993	Upgrade	65	60	85	44	43	68	47	47	70	3.1	4.5	1.9
305007	Upgrade	65	60	85	46	44	70	48	49	70	2.6	4.2	0.7
305013	Upgrade	65	60	85	43	43	67	48	49	72	5.6	5.6	5.5
305015	Upgrade	65	60	85	44	45	67	53	53	76	8.3	8.2	9.0
305022	Upgrade	65	60	85	50	50	73	57	57	81	6.7	6.9	7.7
305031	Upgrade	65	60	85	36	37	60	43	43	66	6.4	6.4	5.6
305034	Upgrade	65	60	85	49	49	72	56	56	80	6.9	7.0	8.2
305037	Upgrade	65	60	85	45	45	70	51	51	75	5.9	6.5	4.7
305038	New	60	55	80	-	-	-	40	40	63	-	-	-
305039	Upgrade	65	60	85	41	42	64	47	47	70	5.8	5.9	5.4
305040	Upgrade	65	60	85	45	44	70	48	49	71	3.4	4.8	0.9
305042	Upgrade	65	60	85	48	48	71	54	54	78	6.7	6.9	6.8
305043	Upgrade	65	60	85	45	44	71	47	47	70	2.1	3.6	-0.5
305046	Upgrade	65	60	85	45	44	69	49	49	72	3.6	4.9	2.9
305048	Upgrade	65	60	85	51	51	73	58	58	81	7.1	7.4	8.1
305049	Upgrade	65	60	85	47	45	73	48	48	73	0.8	2.6	-0.3
305053	Upgrade	65	60	85	44	44	66	50	50	72	6.4	6.4	6.5
305062	Upgrade	65	60	85	48	47	73	51	51	74	2.2	3.7	1.0
305068	Upgrade	65	60	85	48	48	71	47	47	70	-1.1	-1.0	-1.4
305072	Upgrade	65	60	85	43	44	66	49	50	72	5.8	5.8	6.2
305075	Upgrade	65	60	85	43	43	67	49	49	73	6.0	6.0	5.5
305080	Upgrade	65	60	85	50	50	72	57	57	81	6.9	6.9	8.2
305081	New	60	55	80	-	-	-	45	45	68	-	-	-
305083	Upgrade	65	60	85	51	51	75	58	58	82	7.1	7.1	7.1
305089	Upgrade	65	60	85	37	38	62	44	44	68	6.6	6.6	5.4
305096	Upgrade	65	60	85	45	44	67	50	50	73	5.3	6.2	5.5
305105	Upgrade	65	60	85	42	42	65	48	49	71	6.3	6.3	6.2

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax
305106	Upgrade	65	60	85	51	51	73	58	58	81	6.7	6.9	7.9
305108	Upgrade	65	60	85	46	44	71	47	48	71	1.8	3.4	0.2
305111	Upgrade	65	60	85	45	44	68	51	51	74	5.9	6.7	5.5
305114	Upgrade	65	60	85	42	42	65	47	48	70	5.0	5.9	4.6
305116	Upgrade	65	60	85	49	48	71	55	55	79	6.2	6.6	7.2
305117	Upgrade	65	60	85	48	48	71	55	55	79	6.9	7.2	7.6
305123	Upgrade	65	60	85	50	50	72	57	57	80	6.9	7.1	8.7
305124	Upgrade	65	60	85	42	41	65	47	48	70	5.3	6.2	4.5
305125	Upgrade	65	60	85	47	46	72	48	48	74	0.9	2.6	1.8
305127	Upgrade	65	60	85	46	44	72	48	48	71	1.8	3.5	-1.4
305130	Upgrade	65	60	85	46	45	71	49	49	72	2.8	4.2	1.5
305136	Upgrade	65	60	85	62	62	87	66	66	90	4.4	4.3	3.0
305137	Upgrade	65	60	85	51	51	75	58	58	82	7.1	7.2	7.4
305139	Upgrade	65	60	85	45	44	68	50	50	73	4.9	6.0	4.7
305151	Upgrade	65	60	85	45	44	69	50	50	73	4.7	5.7	3.9
305156	Upgrade	65	60	85	45	44	70	48	48	71	2.3	3.8	0.9
305160	Upgrade	65	60	85	45	44	70	48	48	70	2.6	4.1	0.0
305162	Upgrade	65	60	85	50	49	75	52	52	75	1.9	3.6	-0.2
305163	Upgrade	65	60	85	46	45	72	47	48	72	0.9	2.7	-0.6
305164	Upgrade	65	60	85	51	51	74	56	57	80	5.0	5.9	6.7
305170	Upgrade	65	60	85	50	50	72	57	57	80	6.9	7.1	8.4
305173	Upgrade	65	60	85	44	43	66	48	48	71	4.1	5.2	4.3
305174	Upgrade	65	60	85	50	51	73	57	58	81	6.9	7.0	8.2
305175	Upgrade	65	60	85	45	44	69	49	49	72	3.6	4.9	2.9
305177	Upgrade	65	60	85	49	49	73	55	55	78	6.1	6.4	5.9
305181	Upgrade	65	60	85	42	43	66	50	50	72	7.3	7.4	6.4
305182	Upgrade	65	60	85	42	42	66	48	48	71	6.3	6.4	5.5
305187	Upgrade	65	60	85	39	39	64	46	46	69	6.7	6.7	5.2
305188	Upgrade	65	60	85	43	43	68	49	49	71	5.4	6.1	3.2
305189	New	60	55	80	-	-	-	45	45	68	-	-	-
305193	Upgrade	65	60	85	39	40	62	46	46	69	6.1	6.3	6.3
305194	Upgrade	65	60	85	46	45	71	51	51	74	4.6	5.8	3.3
305199	Upgrade	65	60	85	47	46	69	51	52	74	4.9	5.9	4.6
305203	Upgrade	65	60	85	45	44	67	50	50	73	5.2	6.1	5.6
305207	Upgrade	65	60	85	45	45	67	51	52	73	6.4	6.6	6.7
305208	Upgrade	65	60	85	56	56	81	43	43	66	-12.1	-12.5	-15.4
305211	Upgrade	65	60	85	50	50	73	57	57	81	7.0	7.0	7.6
305215	Upgrade	65	60	85	45	44	71	49	49	72	4.0	5.3	1.2
305216	Upgrade	65	60	85	36	37	60	43	43	66	6.6	6.6	5.7
305218	Upgrade	65	60	85	42	42	65	48	49	71	6.4	6.5	6.0
305219	Upgrade	65	60	85	42	42	66	49	49	72	6.4	6.5	5.9
305223	Upgrade	65	60	85	46	45	70	48	48	71	1.9	3.5	0.3
305225	Upgrade	65	60	85	45	44	68	50	50	72	4.8	5.7	3.4
305235	Upgrade	65	60	85	46	46	71	51	51	73	4.3	5.5	2.2
305236	Upgrade	65	60	85	46	45	71	47	48	71	1.5	3.2	0.0
305239	Upgrade	65	60	85	40	39	63	45	45	67	5.1	6.0	4.3
305241	Upgrade	65	60	85	45	44	69	49	49	71	4.0	5.2	2.8
305244	Upgrade	65	60	85	42	42	64	48	48	71	6.0	6.1	6.3
305248	Upgrade	65	60	85	44	44	69	51	51	74	6.6	7.1	5.6
305253	Upgrade	65	60	85	45	44	70	49	49	72	3.8	5.1	2.1
305254	Upgrade	65	60	85	47	46	74	48	48	70	0.7	2.5	-3.6



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
305256	Upgrade	65	60	85	50	51	74	57	57	81	6.9	6.9	6.7
305257	Upgrade	65	60	85	44	44	68	49	49	72	4.7	5.8	4.0
305269	Upgrade	65	60	85	51	51	74	58	58	82	7.3	7.6	8.2
305280	Upgrade	65	60	85	45	43	70	47	48	70	2.6	4.1	-0.4
305284	Upgrade	65	60	85	41	40	67	45	45	68	3.5	4.7	1.2
305286	Upgrade	65	60	85	55	56	81	47	47	69	-8.6	-9.0	-11.4
305295	Upgrade	65	60	85	56	56	81	44	44	67	-11.9	-12.2	-14.1
305296	Upgrade	65	60	85	56	56	81	43	43	66	-13.4	-13.6	-15.2
305298	Upgrade	65	60	85	40	40	62	47	47	69	6.8	6.9	7.2
305299	Upgrade	65	60	85	45	44	70	48	48	70	3.4	4.7	0.5
305302	Upgrade	65	60	85	50	51	74	57	57	81	6.8	6.8	7.4
305303	Upgrade	65	60	85	41	41	64	47	48	70	6.3	6.4	6.0
305308	Upgrade	65	60	85	46	46	70	51	51	74	4.9	5.9	4.6
305311	Upgrade	65	60	85	45	44	70	48	49	71	3.1	4.6	0.9
305315	Upgrade	65	60	85	42	42	65	44	44	67	2.4	2.4	2.6
305316	Upgrade	65	60	85	46	45	71	48	49	71	2.4	3.9	0.1
305322	Upgrade	65	60	85	46	45	73	48	48	70	1.5	3.1	-2.5
305323	Upgrade	65	60	85	54	54	79	44	44	67	-9.7	-10.1	-11.7
305326	Upgrade	65	60	85	46	45	69	51	51	73	4.5	5.5	4.3
305327	Upgrade	65	60	85	40	39	64	44	44	65	3.6	4.9	1.0
305328	Upgrade	65	60	85	47	47	71	48	48	71	0.9	1.0	0.5
305330	Upgrade	65	60	85	45	44	69	49	49	71	3.6	4.9	1.5
305331	Upgrade	65	60	85	47	46	69	52	52	75	5.2	6.1	5.5
305334	Upgrade	65	60	85	44	43	67	50	50	73	5.8	6.7	5.3
305336	Upgrade	65	60	85	50	50	73	57	57	81	6.9	7.0	7.3
305341	Upgrade	65	60	85	51	52	77	46	46	69	-5.9	-6.1	-8.0
305342	Upgrade	65	60	85	44	44	68	49	50	72	5.1	6.0	3.9
305353	Upgrade	65	60	85	47	45	71	48	48	70	1.4	3.1	-0.6
305355	Upgrade	65	60	85	45	44	68	49	49	72	4.4	5.3	4.7
305361	Upgrade	65	60	85	41	41	66	48	49	72	7.7	7.9	5.5
305362	Upgrade	65	60	85	48	46	74	48	49	71	0.6	2.4	-2.7
305363	Upgrade	65	60	85	46	45	72	48	48	70	1.7	3.4	-1.6
305365	Upgrade	65	60	85	46	45	69	50	51	73	4.5	5.6	4.1
305367	Upgrade	65	60	85	43	42	67	48	48	71	4.9	6.0	3.7
305368	Upgrade	65	60	85	43	43	67	48	48	71	4.7	5.7	4.1
305371	Upgrade	65	60	85	46	45	70	50	50	73	3.8	4.9	2.7
305373	Upgrade	65	60	85	51	51	75	58	58	82	7.1	7.2	7.2
305380	Upgrade	65	60	85	50	51	75	44	45	68	-6.0	-6.2	-7.1
305382	Upgrade	65	60	85	44	43	68	47	48	70	3.3	4.7	1.6
305385	Upgrade	65	60	85	46	45	72	49	50	72	3.0	4.5	0.6
305404	Upgrade	65	60	85	46	45	71	48	49	71	1.9	3.5	0.3
305409	Upgrade	65	60	85	43	42	68	48	48	71	4.6	5.7	3.2
305410	Upgrade	65	60	85	45	44	69	50	50	73	4.5	5.5	3.5
305412	Upgrade	65	60	85	52	52	75	59	59	82	6.8	6.9	7.4
305413	Upgrade	65	60	85	42	41	66	47	47	69	4.5	5.6	3.1
305418	Upgrade	65	60	85	45	43	68	48	48	70	3.3	4.7	2.1
305421	Upgrade	65	60	85	48	46	73	48	48	71	0.2	2.1	-2.6
305424	Upgrade	65	60	85	51	52	76	59	59	83	7.2	7.2	7.1
305427	Upgrade	65	60	85	42	41	66	46	46	68	4.1	5.2	2.7
305428	Upgrade	65	60	85	46	45	72	49	49	72	2.9	4.4	0.4
305430	Upgrade	65	60	85	46	45	71	48	49	71	2.4	4.0	0.1

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
305433	Upgrade	65	60	85	43	42	66	47	47	70	4.1	5.3	3.5
305443	Upgrade	65	60	85	45	44	69	49	49	71	3.6	4.9	2.0
305446	Upgrade	65	60	85	46	45	70	51	52	75	5.5	6.3	5.0
305450	Upgrade	65	60	85	49	50	73	48	48	70	-1.6	-1.9	-2.6
305454	Upgrade	65	60	85	52	52	75	59	59	82	6.8	6.9	7.3
305456	Upgrade	65	60	85	46	45	70	49	50	72	3.8	5.1	2.3
305458	Upgrade	65	60	85	46	45	71	51	51	74	4.6	5.7	2.9
305462	Upgrade	65	60	85	47	46	70	51	51	74	4.3	5.3	4.3
305468	Upgrade	65	60	85	47	46	70	50	50	73	3.1	4.6	2.5
305474	Upgrade	65	60	85	43	42	69	49	49	72	5.6	6.6	3.0
305476	Upgrade	65	60	85	52	52	75	59	59	83	7.0	7.2	7.5
305481	Upgrade	65	60	85	43	42	67	47	47	69	4.3	5.4	2.7
305488	Upgrade	65	60	85	46	45	69	50	51	73	4.4	5.5	3.4
305489	Upgrade	65	60	85	41	40	64	45	45	67	3.9	4.8	2.9
305490	Upgrade	65	60	85	44	43	68	48	48	71	4.3	5.4	2.8
305491	Upgrade	65	60	85	45	45	70	51	51	74	6.2	6.9	4.4
305493	Upgrade	65	60	85	45	45	67	49	49	71	4.0	4.1	4.6
305499	Upgrade	65	60	85	45	44	70	49	49	72	3.7	5.0	1.9
305503	Upgrade	65	60	85	43	43	66	48	49	72	5.7	5.6	5.8
305507	Upgrade	65	60	85	48	48	72	49	50	73	1.3	1.4	0.6
305509	Upgrade	65	60	85	52	52	76	59	59	83	7.0	7.1	6.3
305512	Upgrade	65	60	85	45	44	70	48	48	71	3.1	4.6	0.8
305516	Upgrade	65	60	85	46	46	68	51	52	74	5.6	5.6	5.9
305517	Upgrade	65	60	85	42	42	65	47	47	70	4.7	5.6	4.5
305519	Upgrade	65	60	85	45	45	67	51	51	73	5.6	5.6	6.0
305523	Upgrade	65	60	85	46	45	69	50	51	73	4.7	5.7	4.2
305525	Upgrade	65	60	85	40	39	62	45	45	67	5.7	5.9	5.1
305530	Upgrade	65	60	85	43	44	66	49	49	72	5.6	5.7	6.0
305532	Upgrade	65	60	85	44	43	68	48	48	71	3.7	4.9	2.2
305533	Upgrade	65	60	85	43	43	65	48	49	71	5.7	5.7	6.2
305534	Upgrade	65	60	85	46	45	70	51	51	74	4.5	5.6	3.6
305539	Upgrade	65	60	85	52	52	77	60	60	84	7.4	7.4	7.0
305541	Upgrade	65	60	85	43	43	66	48	49	72	5.6	5.6	6.0
305544	Upgrade	65	60	85	44	43	69	49	49	71	4.6	5.8	2.2
305545	Upgrade	65	60	85	45	46	68	51	51	74	5.5	5.6	5.9
305548	Upgrade	65	60	85	40	40	63	46	46	68	5.4	5.8	4.6
305552	Upgrade	65	60	85	43	44	66	50	50	72	6.2	6.3	6.8
305555	Upgrade	65	60	85	41	41	64	47	47	69	5.5	5.8	4.8
305557	Upgrade	65	60	85	46	45	70	50	50	73	3.8	5.0	3.0
305558	Upgrade	65	60	85	53	53	77	60	60	84	7.4	7.5	6.9
305566	Upgrade	65	60	85	42	41	64	47	47	68	5.2	5.9	4.3
305567	Upgrade	65	60	85	39	38	61	44	44	65	5.4	5.7	4.6
305568	Upgrade	65	60	85	44	43	68	47	48	70	3.6	4.9	2.3
305570	Upgrade	65	60	85	43	44	66	49	49	72	5.7	5.7	6.3
305571	Upgrade	65	60	85	42	42	65	49	49	72	6.8	6.9	7.1
305572	Upgrade	65	60	85	42	43	65	48	48	71	5.7	5.7	6.1
305574	Upgrade	65	60	85	43	43	66	49	49	72	5.8	5.8	6.0
305577	Upgrade	65	60	85	46	45	72	48	48	71	2.1	3.6	-0.5
305579	Upgrade	65	60	85	43	43	66	48	49	72	5.5	5.5	5.7
305582	Upgrade	65	60	85	45	45	66	50	51	73	5.6	5.7	6.7
305583	Upgrade	65	60	85	45	45	70	50	50	73	4.7	5.8	3.1



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
305584	Upgrade	65	60	85	42	42	64	48	49	71	6.7	6.7	6.6
305585	Upgrade	65	60	85	46	45	70	49	49	72	3.1	4.6	1.8
305588	Upgrade	65	60	85	46	44	70	48	48	71	2.5	4.0	0.2
305590	Upgrade	65	60	85	41	40	63	46	46	68	5.5	5.9	4.7
305592	Upgrade	65	60	85	43	42	67	47	47	70	3.7	5.0	2.6
305598	Upgrade	65	60	85	53	53	77	60	60	84	7.3	7.4	6.8
305599	Upgrade	65	60	85	43	43	69	48	48	71	4.9	5.9	2.0
305600	Upgrade	65	60	85	44	44	66	49	50	72	5.7	5.6	5.9
305601	Upgrade	65	60	85	43	43	66	48	49	71	5.6	5.6	5.9
305602	Upgrade	65	60	85	48	47	74	50	51	74	2.4	3.9	-0.1
305603	Upgrade	65	60	85	41	41	63	48	48	69	6.8	6.9	6.6
305606	Upgrade	65	60	85	45	44	69	49	49	71	3.8	5.0	1.6
305607	Upgrade	65	60	85	52	52	76	59	60	83	7.1	7.3	7.4
305611	Upgrade	65	60	85	41	41	65	47	47	69	5.8	6.6	4.5
305613	Upgrade	65	60	85	44	44	68	50	51	73	6.3	6.4	5.2
305615	Upgrade	65	60	85	38	37	60	43	43	65	5.4	5.8	4.4
305618	Upgrade	65	60	85	43	44	65	49	49	72	5.7	5.7	6.4
305619	Upgrade	65	60	85	40	40	64	46	46	69	5.5	5.6	5.1
305620	Upgrade	65	60	85	45	44	70	48	48	70	2.9	4.3	0.5
305621	Upgrade	65	60	85	40	40	61	46	46	67	5.3	5.8	5.2
305624	Upgrade	65	60	85	44	44	66	49	50	72	5.7	5.7	6.6
305627	Upgrade	65	60	85	43	42	67	47	48	70	4.3	5.4	2.8
305629	Upgrade	65	60	85	42	43	65	49	50	72	7.3	7.3	6.6
305632	Upgrade	65	60	85	44	43	70	47	47	69	2.8	4.2	-0.7
305635	Upgrade	65	60	85	53	53	78	60	61	84	7.3	7.2	6.9
305636	Upgrade	65	60	85	42	42	65	48	49	71	6.5	6.6	6.0
305637	Upgrade	65	60	85	44	44	66	49	50	72	5.5	5.6	5.9
305639	Upgrade	65	60	85	43	43	68	49	49	72	5.8	6.4	4.0
305641	Upgrade	65	60	85	42	42	64	48	48	70	5.5	6.0	5.6
305644	Upgrade	65	60	85	42	41	67	48	48	70	5.9	6.8	3.2
305645	Upgrade	65	60	85	38	37	59	43	43	64	5.4	5.9	5.3
305652	Upgrade	65	60	85	54	54	78	61	62	86	7.4	7.3	7.2
305655	Upgrade	65	60	85	42	43	67	46	46	69	3.7	3.8	2.1
305656	Upgrade	65	60	85	44	43	68	49	49	71	5.0	6.0	3.5
305657	Upgrade	65	60	85	45	43	70	48	49	71	3.8	5.1	1.2
305658	Upgrade	65	60	85	44	43	68	48	48	70	3.4	4.8	1.8
305662	Upgrade	65	60	85	43	42	70	48	49	72	5.4	6.2	1.9
305663	Upgrade	65	60	85	49	49	74	51	51	74	1.9	1.9	0.7
305664	Upgrade	65	60	85	44	44	66	49	50	72	5.8	5.8	6.3
305666	Upgrade	65	60	85	42	42	64	49	49	71	6.8	6.8	6.8
305668	Upgrade	65	60	85	43	43	70	49	49	71	5.4	6.3	1.6
305670	Upgrade	65	60	85	47	45	72	49	49	72	2.5	4.0	0.0
305671	Upgrade	65	60	85	38	37	59	43	43	64	5.4	5.9	4.5
305673	Upgrade	65	60	85	41	42	63	48	48	70	6.5	6.6	6.6
305675	Upgrade	65	60	85	41	42	64	48	48	70	6.6	6.6	6.3
305677	Upgrade	65	60	85	40	40	63	46	47	69	6.9	6.9	6.6
305678	Upgrade	65	60	85	53	54	77	60	61	84	7.0	7.1	7.3
305680	Upgrade	65	60	85	41	41	66	47	47	69	5.4	6.2	3.4
305681	Upgrade	65	60	85	44	43	67	48	48	70	4.1	5.3	3.1
305685	Upgrade	65	60	85	44	43	69	48	49	71	4.2	5.4	1.2
305687	Upgrade	65	60	85	59	60	88	66	67	90	6.9	6.8	2.2

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
305697	Upgrade	65	60	85	54	54	78	61	61	85	7.0	7.0	6.8
305698	Upgrade	65	60	85	43	44	66	49	49	72	5.6	5.7	5.8
305700	Upgrade	65	60	85	40	40	62	46	47	69	6.6	6.7	6.4
305705	Upgrade	65	60	85	52	52	76	53	53	76	1.2	1.2	0.2
305707	Upgrade	65	60	85	40	40	63	47	47	69	6.8	6.9	5.8
305714	Upgrade	65	60	85	45	44	70	49	49	72	3.8	5.0	1.5
305715	Upgrade	65	60	85	37	36	60	43	42	62	5.5	6.0	1.8
305716	Upgrade	65	60	85	43	43	68	49	49	71	5.5	6.3	3.2
305717	Upgrade	65	60	85	41	42	63	48	48	69	6.7	6.7	6.7
305720	Upgrade	65	60	85	44	43	68	49	49	72	4.9	6.0	4.3
305722	Upgrade	65	60	85	40	40	62	45	46	68	5.8	6.0	5.3
305724	Upgrade	65	60	85	54	54	77	61	61	85	6.7	6.9	7.2
305727	Upgrade	65	60	85	42	42	68	48	48	71	5.5	6.2	2.8
305732	Upgrade	65	60	85	42	42	65	47	48	68	5.2	5.9	2.6
305733	Upgrade	65	60	85	44	44	66	50	50	73	6.1	6.2	6.3
305734	Upgrade	65	60	85	46	45	70	50	50	73	4.2	5.3	2.9
305736	Upgrade	65	60	85	45	45	68	51	52	74	6.5	6.6	5.8
305738	Upgrade	65	60	85	41	40	62	46	46	67	5.6	6.2	4.5
305740	Upgrade	65	60	85	43	44	67	50	50	73	6.4	6.4	5.9
305741	Upgrade	65	60	85	41	42	63	48	48	69	6.6	6.7	6.8
305742	Upgrade	65	60	85	41	41	65	45	45	66	4.0	4.8	1.2
305744	Upgrade	65	60	85	35	34	57	41	41	60	5.9	6.4	2.7
305746	Upgrade	65	60	85	53	54	78	60	61	84	7.0	7.1	6.4
305748	Upgrade	65	60	85	39	40	63	46	46	68	6.4	6.4	5.3
305749	Upgrade	65	60	85	44	44	67	50	50	72	5.8	6.0	5.6
305751	Upgrade	65	60	85	53	52	76	56	56	79	2.8	3.7	2.9
305753	Upgrade	65	60	85	42	41	68	47	48	70	5.4	6.3	2.2
305758	Upgrade	65	60	85	46	45	70	50	50	73	3.5	4.9	2.2
305759	Upgrade	65	60	85	53	52	76	56	56	79	2.9	3.8	3.5
305760	Upgrade	65	60	85	40	39	61	45	45	65	4.8	5.5	3.9
305763	Upgrade	65	60	85	36	35	61	41	41	61	5.7	6.3	-0.1
305764	Upgrade	65	60	85	54	54	79	47	47	71	-6.8	-6.9	-8.5
305765	Upgrade	65	60	85	41	42	63	47	48	69	5.9	6.0	6.2
305767	Upgrade	65	60	85	54	54	79	28	28	52	-25.7	-25.7	-26.9
305768	Upgrade	65	60	85	43	44	66	49	49	72	5.7	5.7	5.9
305769	Upgrade	65	60	85	48	48	70	54	54	77	5.8	5.7	6.4
305771	Upgrade	65	60	85	39	38	61	45	44	64	5.5	6.1	2.8
305772	Upgrade	65	60	85	48	48	70	54	54	77	5.7	5.6	6.4
305775	Upgrade	65	60	85	54	54	78	61	61	85	6.8	7.0	7.0
305777	Upgrade	65	60	85	46	45	70	50	50	73	4.1	5.4	2.9
305787	Upgrade	65	60	85	46	45	69	50	50	72	3.9	5.1	2.6
305788	Upgrade	65	60	85	42	42	66	48	48	72	5.7	5.7	5.1
305790	Upgrade	65	60	85	45	44	67	50	50	73	5.9	6.3	5.6
305794	Upgrade	65	60	85	42	42	66	48	48	71	6.4	6.4	5.5
305795	Upgrade	65	60	85	54	54	78	46	46	69	-8.2	-8.3	-9.2
305799	Upgrade	65	60	85	40	40	61	46	47	68	5.9	6.1	6.2
305800	Upgrade	65	60	85	54	54	79	60	60	84	6.3	6.5	5.3
305802	Upgrade	65	60	85	46	45	70	50	50	72	3.9	5.1	1.9
305804	Upgrade	65	60	85	38	37	62	43	43	62	5.4	6.2	-0.2
305807	Upgrade	65	60	85	43	43	66	49	50	72	6.2	6.3	5.9
305815	Upgrade	65	60	85	44	43	66	49	49	72	5.2	6.2	5.4



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
305817	Upgrade	65	60	85	44	43	65	49	49	71	5.8	6.1	6.0
305819	Upgrade	65	60	85	40	40	64	46	46	69	5.8	5.9	5.3
305820	Upgrade	65	60	85	53	53	78	53	54	77	0.5	0.6	-0.8
305821	Upgrade	65	60	85	41	41	61	47	47	67	6.0	6.1	6.4
305825	Upgrade	65	60	85	51	51	78	58	58	82	6.4	6.8	3.8
305828	Upgrade	65	60	85	46	46	68	51	51	74	5.7	5.9	5.6
305829	Upgrade	65	60	85	39	39	63	45	45	68	5.7	5.8	5.0
305834	Upgrade	65	60	85	48	48	71	54	54	77	5.7	5.7	6.1
305835	Upgrade	65	60	85	34	34	53	40	40	61	6.5	6.8	7.8
305837	Upgrade	65	60	85	42	43	66	49	49	71	6.5	6.5	5.5
305841	Upgrade	65	60	85	55	53	80	53	53	77	-2.3	-0.2	-2.7
305844	Upgrade	65	60	85	41	42	64	48	48	71	6.4	6.5	6.3
305848	New	60	55	80	-	-	-	54	54	78	-	-	-
305850	Upgrade	65	60	85	43	43	66	49	50	72	6.5	6.7	5.9
305851	Upgrade	65	60	85	52	51	80	52	53	76	-0.2	1.6	-3.5
305854	Upgrade	65	60	85	54	53	80	53	54	77	-1.0	1.0	-3.2
305862	Upgrade	65	60	85	38	37	61	43	43	62	5.6	6.2	1.5
305867	Upgrade	65	60	85	43	44	65	49	49	72	5.7	5.7	6.3
305868	Upgrade	65	60	85	39	38	58	44	44	64	5.7	5.9	5.9
305869	Upgrade	65	60	85	46	45	70	51	51	73	4.9	5.9	3.3
305876	Upgrade	65	60	85	42	42	65	48	48	70	6.0	6.7	4.4
305878	Upgrade	65	60	85	57	56	85	53	54	77	-3.8	-1.8	-8.2
305881	Upgrade	65	60	85	55	55	79	61	62	85	6.0	6.3	6.1
305882	Upgrade	65	60	85	40	40	63	46	46	68	5.8	5.8	4.8
305889	Upgrade	65	60	85	60	60	88	68	68	92	7.9	7.8	4.1
305890	Upgrade	65	60	85	38	37	59	44	44	63	6.0	6.7	4.3
305891	Upgrade	65	60	85	41	40	65	46	46	68	4.4	5.5	2.4
305892	Upgrade	65	60	85	55	53	80	54	54	77	-0.7	1.2	-3.0
305893	New	60	55	80	-	-	-	52	52	76	-	-	-
305897	Upgrade	65	60	85	36	35	61	41	40	60	4.6	5.5	-1.3
305904	Upgrade	65	60	85	42	42	65	48	48	70	5.7	5.9	5.4
305906	Upgrade	65	60	85	61	59	89	54	55	81	-6.8	-4.6	-7.9
305915	Upgrade	65	60	85	43	43	66	50	50	73	6.5	6.6	6.1
305919	Upgrade	65	60	85	43	43	66	50	50	72	6.8	6.9	6.4
305921	Upgrade	65	60	85	55	56	79	62	62	86	6.3	6.3	6.3
305924	Upgrade	65	60	85	44	44	66	50	50	71	5.8	6.0	5.7
305925	Upgrade	65	60	85	45	45	68	51	51	73	5.6	6.0	4.8
305930	Upgrade	65	60	85	40	40	62	45	46	69	5.7	5.7	6.4
305932	Upgrade	65	60	85	45	45	68	50	51	74	5.7	5.6	5.5
305933	Upgrade	65	60	85	46	47	69	52	52	75	5.7	5.8	5.7
305934	Upgrade	65	60	85	40	40	63	46	46	68	5.5	5.7	5.2
305939	Upgrade	65	60	85	50	50	73	56	56	79	5.8	5.7	6.0
305942	Upgrade	65	60	85	40	40	62	46	46	66	5.8	6.2	4.7
305946	Upgrade	65	60	85	48	47	73	50	51	74	2.0	3.6	0.1
305947	Upgrade	65	60	85	55	55	80	61	61	85	5.9	6.0	5.4
305949	Upgrade	65	60	85	42	42	63	48	49	70	6.1	6.2	6.3
305952	Upgrade	65	60	85	38	38	60	43	43	64	5.1	5.6	4.4
305955	Upgrade	65	60	85	54	54	79	60	60	84	5.4	5.7	4.9
305957	Upgrade	65	60	85	42	42	62	47	48	69	5.8	6.0	6.6
305959	Upgrade	65	60	85	39	38	60	45	44	64	5.6	6.0	4.5
305963	Upgrade	65	60	85	47	47	71	53	53	77	5.8	5.8	6.0

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		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
305966	Upgrade	65	60	85	41	41	64	47	48	70	6.3	6.5	5.2
305967	Upgrade	65	60	85	56	55	82	61	61	85	5.4	5.7	3.3
305968	Upgrade	65	60	85	43	43	66	49	50	72	6.3	6.4	5.6
305969	Upgrade	65	60	85	44	45	65	50	50	71	5.8	5.9	5.9
305970	Upgrade	65	60	85	44	44	66	50	50	72	5.6	6.0	5.4
305971	Upgrade	65	60	85	41	40	62	46	46	68	5.6	6.1	5.2
305975	Upgrade	65	60	85	54	54	80	60	60	84	5.9	6.0	3.4
305978	Upgrade	65	60	85	44	44	67	48	48	71	4.3	4.3	3.4
305979	Upgrade	65	60	85	41	41	64	46	46	68	5.5	5.7	4.3
305981	Upgrade	65	60	85	49	48	73	52	53	76	3.4	4.7	2.5
305982	Upgrade	65	60	85	46	46	68	51	51	74	5.6	5.7	5.7
305983	Upgrade	65	60	85	57	56	84	53	53	78	-4.7	-2.6	-6.3
305985	Upgrade	65	60	85	41	41	64	47	47	69	5.5	5.8	4.6
305992	Upgrade	65	60	85	46	45	68	51	51	74	5.2	6.2	5.2
305995	Upgrade	65	60	85	55	55	81	61	61	85	5.6	5.9	3.6
305996	Upgrade	65	60	85	53	51	78	53	54	77	0.4	2.2	-1.4
306000	Upgrade	65	60	85	44	44	66	50	50	73	6.2	6.3	6.2
306002	Upgrade	65	60	85	44	45	67	50	51	72	6.0	6.1	5.4
306004	Upgrade	65	60	85	43	43	64	49	49	71	6.1	6.5	6.6
306007	Upgrade	65	60	85	42	42	63	48	48	70	6.1	6.2	6.8
306008	Upgrade	65	60	85	47	45	71	50	50	73	3.2	4.6	1.9
306009	Upgrade	65	60	85	42	43	66	49	49	71	6.2	6.2	4.7
306010	Upgrade	65	60	85	45	45	67	50	51	73	5.7	5.7	6.1
306011	Upgrade	65	60	85	42	42	65	48	48	70	5.9	6.1	4.9
306012	Upgrade	65	60	85	38	37	62	43	42	62	5.2	5.9	-0.1
306018	Upgrade	65	60	85	46	46	69	52	52	74	5.7	5.7	5.2
306019	Upgrade	65	60	85	46	46	70	52	52	74	5.7	5.8	4.6
306023	Upgrade	65	60	85	42	42	64	47	48	69	5.8	5.8	5.2
306026	Upgrade	65	60	85	39	39	61	45	45	66	5.6	5.7	5.4
306031	Upgrade	65	60	85	38	38	63	44	44	67	5.6	5.6	4.3
306033	Upgrade	65	60	85	42	42	66	48	48	70	5.6	5.9	4.4
306034	New	60	55	80	-	-	-	55	55	79	-	-	-
306039	Upgrade	65	60	85	45	45	67	51	51	74	5.7	5.7	6.5
306043	Upgrade	65	60	85	55	53	79	52	53	77	-2.1	-0.2	-2.5
306052	Upgrade	65	60	85	51	51	76	33	33	55	-18.2	-18.0	-21.0
306055	Upgrade	65	60	85	42	42	64	48	48	70	5.9	6.1	6.1
306057	Upgrade	65	60	85	46	46	70	51	52	75	5.8	5.7	4.9
306059	Upgrade	65	60	85	41	41	62	46	47	67	5.2	5.8	5.0
306061	Upgrade	65	60	85	43	44	67	50	50	73	6.9	6.9	5.7
306062	Upgrade	65	60	85	47	46	71	51	51	74	3.9	5.1	2.7
306064	Upgrade	65	60	85	59	57	86	55	55	81	-3.9	-1.9	-5.2
306070	Upgrade	65	60	85	39	39	61	45	45	64	5.1	5.9	3.3
306073	Upgrade	65	60	85	48	47	73	51	51	74	2.9	4.4	0.9
306074	Upgrade	65	60	85	36	35	59	41	41	61	5.9	6.4	1.4
306075	Upgrade	65	60	85	44	45	68	51	51	73	6.2	6.3	5.5
306077	Upgrade	65	60	85	37	37	60	41	41	63	3.5	4.4	2.8
306079	Upgrade	65	60	85	42	43	66	48	48	72	5.6	5.6	5.5
306084	Upgrade	65	60	85	46	46	68	52	52	74	6.1	6.1	5.6
306086	Upgrade	65	60	85	47	46	67	53	53	75	6.0	6.6	8.0
306089	Upgrade	65	60	85	45	45	68	51	51	74	6.1	6.2	6.2
306094	Upgrade	65	60	85	43	43	65	49	49	71	5.9	6.0	5.5



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		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
306098	Upgrade	65	60	85	43	43	66	48	49	71	5.8	5.8	5.4
306100	Upgrade	65	60	85	42	43	66	49	50	72	6.8	6.9	6.0
306103	Upgrade	65	60	85	47	46	72	51	51	74	3.8	5.1	1.9
306107	Upgrade	65	60	85	45	45	70	50	50	73	4.6	5.7	3.6
306115	Upgrade	65	60	85	48	47	68	53	54	76	5.8	6.3	7.2
306122	Upgrade	65	60	85	38	38	63	44	44	67	5.7	5.7	4.3
306123	Upgrade	65	60	85	51	51	75	30	30	54	-20.5	-20.3	-20.7
306127	Upgrade	65	60	85	47	46	72	50	50	73	2.9	4.4	1.1
306129	Upgrade	65	60	85	50	49	77	52	53	76	1.9	3.3	-0.8
306131	Upgrade	65	60	85	38	38	61	44	44	68	6.0	6.0	6.3
306133	Upgrade	65	60	85	55	56	81	37	37	61	-18.5	-18.5	-20.0
306134	Upgrade	65	60	85	45	45	68	51	51	74	6.3	6.4	5.4
306137	Upgrade	65	60	85	47	47	67	54	54	76	6.2	6.7	8.7
306138	New	60	55	80	-	-	-	54	55	78	-	-	-
306139	Upgrade	65	60	85	44	44	67	50	50	72	6.1	6.2	5.2
306141	Upgrade	65	60	85	46	45	71	49	49	72	2.9	4.4	0.5
306144	Upgrade	65	60	85	44	44	66	49	49	71	5.4	5.6	4.8
306145	Upgrade	65	60	85	55	54	81	56	56	82	0.5	2.3	1.1
306148	Upgrade	65	60	85	45	44	69	48	48	71	3.2	4.6	2.1
306150	Upgrade	65	60	85	35	34	56	41	41	61	5.8	6.3	4.8
306153	Upgrade	65	60	85	46	46	69	51	52	74	5.5	5.7	5.0
306154	Upgrade	65	60	85	48	46	73	50	50	72	2.3	3.8	-0.3
306156	Upgrade	65	60	85	42	42	65	48	48	70	5.6	5.9	4.9
306157	Upgrade	65	60	85	55	55	80	34	35	58	-20.4	-20.5	-22.0
306159	Upgrade	65	60	85	37	38	61	43	43	67	5.7	5.7	5.3
306163	Upgrade	65	60	85	47	47	67	53	54	76	6.2	6.6	8.9
306174	Upgrade	65	60	85	35	35	59	41	41	61	6.0	6.6	2.3
306179	Upgrade	65	60	85	42	42	64	48	48	70	6.3	6.4	6.3
306181	Upgrade	65	60	85	41	40	62	45	45	65	3.9	4.8	3.4
306183	Upgrade	65	60	85	54	55	80	35	35	59	-19.3	-19.3	-21.2
306184	Upgrade	65	60	85	46	45	69	51	51	73	4.8	5.9	4.2
306185	Upgrade	65	60	85	31	31	54	36	37	59	5.6	5.6	5.2
306193	Upgrade	65	60	85	43	43	66	49	49	71	5.8	5.9	5.6
306194	Upgrade	65	60	85	47	47	69	53	53	76	6.3	6.7	7.5
306196	Upgrade	65	60	85	51	51	76	33	33	56	-18.3	-18.0	-19.4
306198	Upgrade	65	60	85	37	37	60	43	43	66	5.8	5.7	5.8
306200	Upgrade	65	60	85	38	38	62	44	44	67	5.7	5.7	5.0
306202	Upgrade	65	60	85	45	45	68	51	51	74	6.0	6.2	5.4
306206	Upgrade	65	60	85	53	53	78	30	31	54	-22.3	-22.3	-24.1
306208	Upgrade	65	60	85	44	44	67	50	50	72	5.7	5.9	4.8
306215	Upgrade	65	60	85	41	41	63	47	48	69	6.4	6.5	6.4
306217	Upgrade	65	60	85	44	45	68	51	51	74	6.3	6.4	5.4
306219	Upgrade	65	60	85	41	40	62	47	48	69	6.5	7.1	7.3
306221	Upgrade	65	60	85	45	45	69	51	51	74	6.1	6.2	5.5
306223	Upgrade	65	60	85	47	46	69	53	53	76	6.4	6.8	7.5
306224	Upgrade	65	60	85	46	46	69	52	52	74	5.8	5.8	5.7
306226	Upgrade	65	60	85	46	46	68	51	52	73	5.8	5.9	5.7
306228	Upgrade	65	60	85	50	51	74	35	35	57	-15.3	-15.1	-17.0
306229	Upgrade	65	60	85	42	41	63	46	46	67	4.4	5.1	4.6
306230	Upgrade	65	60	85	49	49	71	54	54	77	5.6	5.6	5.5
306232	Upgrade	65	60	85	48	48	69	53	54	75	5.4	5.6	6.0

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
306236	Upgrade	65	60	85	54	53	81	55	55	82	0.5	2.2	0.7
306238	Upgrade	65	60	85	45	44	70	49	49	72	3.4	4.8	1.9
306243	Upgrade	65	60	85	47	46	72	51	51	74	3.5	4.8	1.5
306244	Upgrade	65	60	85	46	46	68	52	52	74	6.2	6.3	5.7
306245	Upgrade	65	60	85	48	48	71	27	27	51	-20.8	-20.3	-20.6
306255	Upgrade	65	60	85	45	45	68	51	51	74	6.2	6.2	6.0
306256	Upgrade	65	60	85	42	42	64	48	49	70	6.7	6.8	5.9
306260	Upgrade	65	60	85	47	47	69	53	53	74	5.9	6.0	5.4
306263	Upgrade	65	60	85	40	40	62	47	47	68	6.6	6.7	6.1
306264	Upgrade	65	60	85	44	44	67	50	50	71	5.7	6.0	4.8
306266	Upgrade	65	60	85	45	46	69	51	51	74	5.6	5.8	4.5
306268	Upgrade	65	60	85	46	46	69	53	53	76	6.7	7.1	7.0
306271	Upgrade	65	60	85	45	45	68	50	51	73	5.8	6.0	4.7
306273	Upgrade	65	60	85	47	46	73	50	50	73	2.3	3.8	0.0
306279	Upgrade	65	60	85	49	49	72	54	55	77	5.6	5.6	5.6
306281	Upgrade	65	60	85	39	39	63	45	45	68	5.8	5.8	5.3
306282	Upgrade	65	60	85	45	45	69	52	52	74	6.6	6.7	5.7
306295	Upgrade	65	60	85	58	56	83	56	56	79	-2.2	-0.3	-3.7
306301	Upgrade	65	60	85	44	45	68	50	51	74	5.8	5.9	5.5
306303	Upgrade	65	60	85	51	51	75	31	31	54	-20.1	-20.0	-20.9
306308	Upgrade	65	60	85	61	59	88	56	57	80	-4.8	-2.7	-7.6
306309	Upgrade	65	60	85	46	45	72	48	48	71	1.5	3.0	-0.8
306314	Upgrade	65	60	85	43	43	67	49	49	72	5.7	5.8	5.2
306319	Upgrade	65	60	85	52	52	76	32	32	54	-20.1	-20.1	-22.0
306329	Upgrade	65	60	85	42	42	64	48	48	69	5.3	5.7	5.5
306333	Upgrade	65	60	85	47	47	70	52	52	75	5.4	5.6	4.8
306334	Upgrade	65	60	85	46	44	71	47	47	72	1.0	2.6	0.8
306335	Upgrade	65	60	85	46	46	70	52	52	74	6.0	6.1	4.5
306336	Upgrade	65	60	85	48	48	70	30	30	54	-17.8	-17.2	-16.3
306337	Upgrade	65	60	85	44	43	67	49	50	72	5.7	6.3	4.9
306338	Upgrade	65	60	85	44	44	66	50	50	72	5.9	6.1	6.4
306339	Upgrade	65	60	85	53	53	78	32	32	55	-20.8	-20.8	-22.9
306342	Upgrade	65	60	85	44	44	65	49	50	71	5.7	5.9	5.9
306343	Upgrade	65	60	85	47	47	71	53	53	75	5.3	6.1	4.1
306345	Upgrade	65	60	85	54	54	79	36	36	60	-17.8	-17.9	-19.5
306347	Upgrade	65	60	85	47	47	70	52	53	75	5.6	5.8	5.1
306355	Upgrade	65	60	85	45	45	68	51	51	73	5.9	6.0	5.0
306362	Upgrade	65	60	85	45	45	69	52	52	75	6.7	6.7	5.5
306364	Upgrade	65	60	85	45	45	68	51	51	74	5.8	5.8	5.3
306366	Upgrade	65	60	85	47	46	72	51	51	74	3.5	4.8	1.6
306367	Upgrade	65	60	85	46	44	70	48	48	70	2.0	3.4	-0.2
306368	Upgrade	65	60	85	56	54	83	55	55	80	-0.9	1.1	-3.0
306371	Upgrade	65	60	85	43	42	64	48	48	70	5.2	6.1	6.0
306375	Upgrade	65	60	85	55	55	80	36	37	60	-18.1	-18.1	-19.8
306379	Upgrade	65	60	85	47	47	68	33	33	57	-14.5	-13.7	-11.9
306381	Upgrade	65	60	85	55	54	82	57	57	84	1.7	3.2	2.3
306382	Upgrade	65	60	85	46	45	70	49	49	70	2.6	3.9	-0.3
306383	Upgrade	65	60	85	43	42	64	47	47	68	4.7	5.5	4.0
306385	Upgrade	65	60	85	45	45	67	51	51	73	6.0	6.2	6.1
306389	Upgrade	65	60	85	44	44	67	50	51	73	6.6	6.6	5.7
306391	Upgrade	65	60	85	30	31	54	37	37	60	6.2	6.2	6.3



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
306394	Upgrade	65	60	85	46	46	69	51	52	74	4.9	5.9	5.0
306399	Upgrade	65	60	85	39	39	63	45	45	68	5.9	5.9	5.3
306402	Upgrade	65	60	85	61	62	90	71	71	95	9.6	9.6	4.7
306403	Upgrade	65	60	85	47	47	71	52	53	76	5.8	6.0	5.0
306407	Upgrade	65	60	85	40	40	64	45	46	69	5.9	5.8	5.5
306411	Upgrade	65	60	85	39	39	63	45	45	68	5.6	5.6	5.7
306412	Upgrade	65	60	85	45	45	68	51	51	73	5.5	5.7	4.8
306416	Upgrade	65	60	85	30	30	55	35	35	59	5.4	5.5	4.4
306417	Upgrade	65	60	85	43	43	66	49	49	71	5.5	5.8	4.3
306421	Upgrade	65	60	85	44	44	65	49	49	70	5.0	5.5	4.6
306423	Upgrade	65	60	85	47	45	71	49	49	71	2.2	3.6	-0.2
306424	Upgrade	65	60	85	54	55	80	35	35	58	-19.8	-19.9	-21.4
306425	Upgrade	65	60	85	57	57	83	42	42	66	-15.0	-15.0	-16.5
306426	Upgrade	65	60	85	47	46	69	32	33	56	-14.7	-13.8	-12.7
306428	Upgrade	65	60	85	42	42	64	48	48	70	6.0	6.0	5.9
306432	Upgrade	65	60	85	45	46	70	52	52	75	6.3	6.4	4.9
306434	Upgrade	65	60	85	58	56	86	55	56	81	-2.8	-0.8	-4.2
306435	Upgrade	65	60	85	50	50	74	56	56	79	5.8	5.7	5.2
306443	Upgrade	65	60	85	44	43	65	49	49	70	5.0	5.5	5.2
306446	Upgrade	65	60	85	48	46	74	50	51	74	2.7	4.4	0.4
306448	Upgrade	65	60	85	50	50	75	35	35	58	-15.6	-15.4	-16.8
306450	Upgrade	65	60	85	46	46	68	52	52	74	5.8	6.0	5.7
306451	Upgrade	65	60	85	42	42	65	49	49	71	7.1	7.0	6.4
306452	Upgrade	65	60	85	44	43	65	49	49	70	5.0	5.7	5.3
306454	Upgrade	65	60	85	55	55	80	35	35	59	-19.5	-19.6	-21.1
306456	Upgrade	65	60	85	52	52	76	58	58	81	5.7	5.6	5.2
306457	Upgrade	65	60	85	41	41	64	47	47	70	6.0	6.0	5.1
306458	Upgrade	65	60	85	42	42	64	32	32	56	-9.8	-9.3	-7.5
306462	Upgrade	65	60	85	35	35	60	41	41	65	5.7	5.8	4.3
306464	Upgrade	65	60	85	47	46	69	34	34	57	-13.0	-12.1	-11.6
306466	Upgrade	65	60	85	47	47	70	53	53	75	5.8	5.8	5.8
306468	Upgrade	65	60	85	51	51	75	54	54	77	2.8	2.7	2.7
306470	Upgrade	65	60	85	43	42	65	48	48	69	5.3	5.8	4.1
306473	Upgrade	65	60	85	40	40	62	46	47	68	6.6	6.6	5.9
306476	Upgrade	65	60	85	48	48	72	52	52	75	3.7	4.9	2.9
306478	Upgrade	65	60	85	56	54	82	58	58	84	2.2	3.7	2.8
306480	Upgrade	65	60	85	44	43	65	49	49	70	4.9	5.5	5.3
306481	Upgrade	65	60	85	48	47	73	51	51	74	3.3	4.6	0.8
306485	Upgrade	65	60	85	51	51	76	34	34	58	-17.3	-17.2	-18.6
306486	Upgrade	65	60	85	41	41	64	47	47	68	5.7	6.0	4.3
306491	Upgrade	65	60	85	55	56	81	37	37	61	-18.5	-18.6	-20.1
306501	Upgrade	65	60	85	47	46	72	50	51	73	3.4	4.7	1.4
306505	Upgrade	65	60	85	47	47	70	53	53	75	5.8	5.9	5.4
306508	Upgrade	65	60	85	34	34	58	39	39	63	5.5	5.6	4.5
306509	Upgrade	65	60	85	47	46	71	49	49	73	2.3	3.7	1.3
306513	Upgrade	65	60	85	52	53	77	34	34	57	-18.6	-18.5	-20.1
306515	Upgrade	65	60	85	44	45	69	50	51	74	6.0	6.0	4.5
306520	Upgrade	65	60	85	47	46	71	37	37	61	-10.3	-9.0	-10.5
306523	Upgrade	65	60	85	45	45	68	51	51	74	5.9	6.1	5.4
306528	Upgrade	65	60	85	44	44	65	49	49	71	5.0	5.6	5.6
306529	Upgrade	65	60	85	47	47	70	33	33	56	-14.2	-13.6	-13.3

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
306532	Upgrade	65	60	85	47	47	69	53	53	75	5.8	6.0	6.1
306535	Upgrade	65	60	85	41	41	63	47	47	69	6.3	6.3	6.1
306537	Upgrade	65	60	85	45	44	68	35	35	58	-10.5	-9.5	-9.8
306540	Upgrade	65	60	85	34	35	57	40	40	63	5.7	5.7	5.9
306541	Upgrade	65	60	85	46	46	69	51	51	73	5.5	5.7	4.6
306543	Upgrade	65	60	85	47	46	71	51	52	74	4.1	5.2	3.0
306544	Upgrade	65	60	85	47	48	70	53	53	76	5.7	5.9	5.3
306551	Upgrade	65	60	85	44	44	67	49	50	72	5.8	5.8	5.0
306553	Upgrade	65	60	85	51	51	76	52	52	75	0.9	1.0	-1.1
306554	Upgrade	65	60	85	49	49	72	55	55	78	5.7	6.4	5.7
306556	Upgrade	65	60	85	50	50	73	56	56	78	5.8	5.7	5.3
306565	Upgrade	65	60	85	48	48	71	36	36	60	-11.9	-11.4	-10.9
306569	Upgrade	65	60	85	44	45	67	50	51	73	6.0	6.1	6.1
306570	Upgrade	65	60	85	53	53	78	55	56	78	2.4	2.5	0.7
306572	Upgrade	65	60	85	49	50	73	55	55	79	5.7	5.7	5.8
306575	Upgrade	65	60	85	61	60	88	61	61	85	0.3	1.9	-3.1
306577	Upgrade	65	60	85	41	40	63	46	46	67	5.4	5.9	3.3
306578	Upgrade	65	60	85	40	41	63	46	47	69	6.0	6.1	5.7
306581	Upgrade	65	60	85	35	35	59	40	40	64	5.6	5.6	5.2
306582	Upgrade	65	60	85	44	44	65	50	50	71	5.4	5.7	6.0
306584	Upgrade	65	60	85	60	59	87	60	60	86	-0.2	1.6	-0.4
306585	Upgrade	65	60	85	46	46	69	36	36	59	-10.6	-9.7	-10.0
306588	Upgrade	65	60	85	49	49	72	35	35	59	-14.5	-13.6	-13.3
306589	Upgrade	65	60	85	47	47	69	53	53	75	5.7	5.8	5.6
306591	Upgrade	65	60	85	48	47	72	51	52	75	3.7	4.9	2.3
306592	Upgrade	65	60	85	44	43	68	35	36	59	-8.5	-7.8	-8.9
306594	Upgrade	65	60	85	44	45	68	51	51	74	6.7	6.8	6.2
306595	Upgrade	65	60	85	45	45	68	51	51	73	5.8	6.0	5.3
306596	Upgrade	65	60	85	55	55	80	43	43	67	-11.9	-11.9	-12.9
306600	Upgrade	65	60	85	48	47	70	55	55	78	7.0	7.4	7.7
306602	Upgrade	65	60	85	40	40	63	46	47	69	6.6	6.7	5.9
306607	Upgrade	65	60	85	48	47	73	52	52	75	3.6	4.9	2.4
306617	Upgrade	65	60	85	46	46	70	35	35	59	-11.5	-10.8	-11.7
306618	Upgrade	65	60	85	47	47	70	53	53	75	5.2	6.0	5.5
306621	Upgrade	65	60	85	45	44	66	50	51	72	5.7	6.1	6.3
306629	Upgrade	65	60	85	47	46	71	51	51	73	3.9	5.0	2.5
306631	Upgrade	65	60	85	62	61	88	63	63	89	0.8	2.4	1.1
306633	Upgrade	65	60	85	52	52	82	60	60	84	8.0	8.1	2.1
306634	Upgrade	65	60	85	51	51	75	53	53	76	2.1	2.2	1.6
306635	Upgrade	65	60	85	47	47	71	53	53	76	5.6	5.8	4.9
306642	Upgrade	65	60	85	40	40	64	45	46	69	5.9	5.8	5.4
306644	Upgrade	65	60	85	47	48	70	53	53	76	5.8	5.8	5.6
306645	Upgrade	65	60	85	46	46	70	36	36	60	-10.5	-9.4	-10.3
306653	Upgrade	65	60	85	56	56	81	37	37	60	-18.9	-18.9	-20.8
306657	Upgrade	65	60	85	48	47	74	52	53	76	3.9	5.1	1.2
306661	Upgrade	65	60	85	61	59	87	61	61	87	-0.3	1.6	0.0
306668	Upgrade	65	60	85	51	51	82	58	59	84	7.3	7.7	2.7
306669	Upgrade	65	60	85	47	46	70	36	37	60	-10.6	-9.5	-9.6
306672	Upgrade	65	60	85	40	40	62	46	47	68	6.3	6.4	6.4
306673	Upgrade	65	60	85	46	46	69	52	52	74	6.0	6.1	5.2
306676	Upgrade	65	60	85	61	60	86	63	63	88	1.4	2.9	1.6



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		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
306680	Upgrade	65	60	85	52	52	81	59	60	84	7.6	7.7	3.0
306681	Upgrade	65	60	85	45	45	68	51	52	73	6.0	6.2	5.6
306685	Upgrade	65	60	85	45	45	69	51	51	73	5.9	6.0	4.7
306687	Upgrade	65	60	85	42	42	64	49	49	71	6.9	7.0	6.8
306690	Upgrade	65	60	85	47	46	71	37	37	61	-10.1	-8.9	-10.8
306692	Upgrade	65	60	85	52	52	81	59	59	84	6.9	7.4	2.4
306694	Upgrade	65	60	85	46	45	70	52	52	75	6.5	6.9	5.7
306695	Upgrade	65	60	85	50	50	75	33	33	55	-17.6	-17.5	-19.8
306697	Upgrade	65	60	85	44	44	66	50	50	72	5.6	5.8	5.9
306698	Upgrade	65	60	85	48	49	73	54	54	78	5.8	5.8	5.1
306699	Upgrade	65	60	85	52	52	76	36	36	59	-16.3	-15.9	-17.1
306700	Upgrade	65	60	85	43	44	66	49	50	72	5.9	6.0	6.2
306704	Upgrade	65	60	85	48	47	71	53	53	75	5.3	5.7	4.0
306714	Upgrade	65	60	85	43	43	66	49	49	70	5.8	6.3	3.4
306715	Upgrade	65	60	85	48	48	70	53	53	76	5.4	5.6	6.0
306716	Upgrade	65	60	85	49	48	75	53	53	76	3.9	5.1	1.2
306717	Upgrade	65	60	85	44	44	67	36	36	59	-8.8	-8.1	-7.9
306719	Upgrade	65	60	85	49	49	78	56	56	80	7.2	7.6	2.7
306724	Upgrade	65	60	85	46	45	69	51	51	72	5.7	6.2	2.2
306727	Upgrade	65	60	85	44	44	68	50	51	73	6.2	6.8	5.0
306730	Upgrade	65	60	85	53	53	82	60	60	84	6.8	7.3	2.5
306731	Upgrade	65	60	85	50	50	75	34	35	58	-15.6	-15.4	-17.0
306733	Upgrade	65	60	85	53	52	82	59	60	84	6.9	7.3	2.0
306735	Upgrade	65	60	85	36	36	60	42	42	65	6.1	6.0	4.8
306736	Upgrade	65	60	85	48	47	72	37	37	60	-11.6	-10.3	-11.7
306737	Upgrade	65	60	85	51	51	76	57	57	81	5.9	5.8	4.7
306738	Upgrade	65	60	85	48	48	70	53	54	76	5.4	5.7	5.6
306739	Upgrade	65	60	85	48	47	72	36	37	60	-11.5	-10.5	-11.7
306742	Upgrade	65	60	85	50	50	78	57	57	81	6.4	7.0	2.6
306744	Upgrade	65	60	85	52	52	81	59	59	83	6.9	7.3	2.5
306748	Upgrade	65	60	85	46	46	68	52	52	74	5.6	5.9	5.8
306750	Upgrade	65	60	85	51	51	81	59	59	84	7.4	7.6	2.7
306751	Upgrade	65	60	85	31	31	55	37	37	60	5.7	5.6	5.9
306754	Upgrade	65	60	85	46	47	71	52	53	76	6.1	6.2	5.1
306755	Upgrade	65	60	85	50	50	78	37	37	60	-13.3	-13.2	-17.8
306756	Upgrade	65	60	85	48	48	71	54	54	76	5.3	6.1	5.3
306757	Upgrade	65	60	85	50	50	80	57	57	82	6.8	7.3	2.7
306761	Upgrade	65	60	85	23	23	48	30	30	54	6.6	6.6	5.4
306764	Upgrade	65	60	85	51	51	79	60	60	84	8.2	8.5	5.0
306766	Upgrade	65	60	85	48	48	73	52	53	75	4.0	5.1	2.3
306768	Upgrade	65	60	85	43	43	67	49	50	72	6.6	6.6	5.3
306769	Upgrade	65	60	85	48	49	72	54	54	77	5.6	5.7	5.4
306770	Upgrade	65	60	85	48	48	72	54	54	76	5.7	5.9	4.7
306771	Upgrade	65	60	85	44	43	63	49	49	70	5.2	5.9	6.5
306773	Upgrade	65	60	85	63	62	88	64	65	91	1.2	2.8	2.6
306774	Upgrade	65	60	85	49	49	76	55	55	79	5.8	6.5	3.2
306775	Upgrade	65	60	85	52	52	81	59	59	84	6.6	7.1	2.3
306782	Upgrade	65	60	85	46	46	69	40	40	63	-6.9	-5.9	-5.2
306784	Upgrade	65	60	85	50	51	76	56	56	79	5.3	5.3	2.9
306786	Upgrade	65	60	85	47	46	69	53	53	74	5.9	6.2	5.7
306787	Upgrade	65	60	85	50	50	79	57	57	81	6.4	6.9	2.5

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
306788	Upgrade	65	60	85	45	45	68	51	51	73	5.4	5.8	5.1
306789	Upgrade	65	60	85	48	47	71	36	36	59	-12.0	-10.8	-11.4
306791	Upgrade	65	60	85	52	53	77	60	60	84	8.0	7.9	7.8
306793	Upgrade	65	60	85	42	43	64	48	48	71	5.9	5.9	6.5
306795	Upgrade	65	60	85	13	14	38	22	22	45	8.1	8.1	7.7
306799	Upgrade	65	60	85	49	48	74	53	53	76	3.8	5.0	2.1
306801	Upgrade	65	60	85	49	48	73	52	52	75	2.8	4.2	2.4
306803	Upgrade	65	60	85	42	42	64	48	48	70	6.2	6.3	5.5
306804	Upgrade	65	60	85	51	51	78	59	59	83	7.9	8.1	4.9
306806	Upgrade	65	60	85	49	48	71	54	54	77	5.6	6.3	5.5
306807	Upgrade	65	60	85	44	44	66	49	50	71	5.4	5.8	5.7
306809	Upgrade	65	60	85	52	52	79	58	58	82	5.7	6.2	3.1
306810	Upgrade	65	60	85	47	48	70	53	54	76	5.9	5.9	5.4
306811	Upgrade	65	60	85	45	45	69	35	35	59	-10.5	-9.4	-10.4
306812	Upgrade	65	60	85	46	46	69	51	51	74	5.5	5.7	5.0
306814	Upgrade	65	60	85	49	49	78	56	57	80	6.9	7.2	2.3
306818	Upgrade	65	60	85	46	46	74	52	52	75	5.7	6.4	0.9
306819	Upgrade	65	60	85	43	42	67	48	48	69	4.9	5.8	1.7
306822	Upgrade	65	60	85	47	48	70	53	53	76	5.7	5.8	5.6
306825	Upgrade	65	60	85	50	50	80	56	57	82	6.3	6.8	2.2
306826	Upgrade	65	60	85	47	46	70	37	37	61	-9.5	-8.4	-9.1
306827	Upgrade	65	60	85	44	44	66	50	50	71	5.6	6.0	5.7
306831	Upgrade	65	60	85	49	49	73	32	32	56	-17.4	-16.9	-17.3
306833	Upgrade	65	60	85	49	49	79	56	56	82	6.7	7.3	3.0
306834	Upgrade	65	60	85	44	44	67	50	50	72	5.4	6.2	4.8
306836	Upgrade	65	60	85	48	48	73	53	53	76	4.4	5.6	3.0
306838	Upgrade	65	60	85	48	48	73	54	54	77	5.8	5.8	4.7
306839	Upgrade	65	60	85	61	61	86	35	35	57	-26.0	-26.0	-29.4
306842	Upgrade	65	60	85	47	47	74	52	52	75	4.5	5.6	0.8
306843	Upgrade	65	60	85	50	50	79	57	57	81	6.2	6.9	2.3
306845	Upgrade	65	60	85	42	43	65	49	49	72	6.2	6.3	6.4
306846	Upgrade	65	60	85	43	43	64	49	49	71	5.6	6.0	6.3
306847	Upgrade	65	60	85	51	50	79	57	57	81	5.9	6.4	2.1
306848	Upgrade	65	60	85	50	49	73	56	56	79	6.0	6.6	5.5
306849	Upgrade	65	60	85	61	61	86	34	34	57	-26.9	-26.9	-29.3
306852	Upgrade	65	60	85	49	49	73	54	55	77	5.2	6.1	4.3
306853	Upgrade	65	60	85	51	52	76	59	60	83	7.9	8.1	6.8
306856	Upgrade	65	60	85	47	46	72	52	53	75	5.4	6.2	3.6
306858	Upgrade	65	60	85	48	48	70	53	53	76	5.6	5.7	5.7
306859	Upgrade	65	60	85	48	48	70	54	54	75	5.7	6.0	4.6
306860	Upgrade	65	60	85	48	47	72	37	38	61	-10.3	-9.1	-11.1
306862	Upgrade	65	60	85	49	47	74	40	40	64	-8.4	-7.0	-9.7
306866	Upgrade	65	60	85	48	49	71	54	55	76	6.0	6.0	5.4
306867	Upgrade	65	60	85	45	44	66	51	51	72	6.0	6.7	6.6
306868	Upgrade	65	60	85	47	47	68	53	53	74	5.7	6.0	5.7
306869	Upgrade	65	60	85	50	49	78	56	56	81	6.2	6.9	2.6
306870	Upgrade	65	60	85	50	49	75	56	56	80	6.2	6.9	4.2
306872	New	60	55	80	-	-	-	54	55	78	-	-	-
306874	Upgrade	65	60	85	48	47	72	40	40	63	-8.1	-6.7	-8.9
306875	Upgrade	65	60	85	51	50	73	56	56	79	5.0	5.9	5.4
306876	Upgrade	65	60	85	47	47	70	53	53	76	6.2	6.3	5.4



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
306877	Upgrade	65	60	85	48	47	70	53	53	74	5.4	5.9	4.3
306878	Upgrade	65	60	85	49	49	72	55	55	78	5.5	5.7	5.1
306879	Upgrade	65	60	85	51	51	78	56	56	81	5.1	5.7	2.2
306881	Upgrade	65	60	85	50	50	79	56	56	81	5.8	6.5	2.0
306882	Upgrade	65	60	85	48	47	70	54	54	78	6.4	7.0	7.8
306884	Upgrade	65	60	85	53	53	78	34	34	57	-18.7	-18.7	-20.6
306885	Upgrade	65	60	85	49	48	73	55	55	77	5.9	6.4	4.3
306887	Upgrade	65	60	85	50	49	77	55	56	79	5.5	6.4	2.4
306890	Upgrade	65	60	85	38	39	63	44	44	68	5.7	5.7	5.0
306891	Upgrade	65	60	85	49	49	74	55	55	78	5.6	6.2	3.7
306893	Upgrade	65	60	85	49	49	78	56	56	81	6.4	6.9	2.5
306897	Upgrade	65	60	85	49	49	72	54	55	77	5.6	5.9	5.1
306898	Upgrade	65	60	85	59	59	88	67	68	92	8.8	8.8	3.9
306899	Upgrade	65	60	85	46	46	71	52	51	72	5.9	5.3	1.7
306903	Upgrade	65	60	85	54	54	81	62	62	86	7.6	7.9	4.4
306904	Upgrade	65	60	85	47	47	69	53	53	75	6.3	6.5	6.4
306906	Upgrade	65	60	85	49	48	79	55	55	81	6.4	7.0	2.4
306908	Upgrade	65	60	85	45	45	67	51	51	72	5.8	6.2	5.8
306909	Upgrade	65	60	85	46	46	69	52	53	75	6.1	6.3	6.2
306910	Upgrade	65	60	85	50	50	75	55	55	78	4.4	5.0	3.2
306911	Upgrade	65	60	85	49	49	73	55	55	78	5.6	5.6	4.9
306914	Upgrade	65	60	85	44	43	65	50	50	73	6.3	6.8	7.7
306917	Upgrade	65	60	85	49	49	72	55	55	77	5.6	5.8	5.1
306918	Upgrade	65	60	85	50	50	71	56	56	79	5.7	6.3	7.7
306919	Upgrade	65	60	85	49	49	77	55	55	79	5.5	6.3	2.1
306920	Upgrade	65	60	85	43	43	66	49	50	72	6.3	6.3	6.1
306921	Upgrade	65	60	85	49	48	77	55	55	80	6.5	7.0	2.4
306922	Upgrade	65	60	85	46	46	69	36	36	60	-10.1	-9.2	-9.2
306927	Upgrade	65	60	85	49	49	72	35	36	59	-14.0	-13.3	-13.2
306928	Upgrade	65	60	85	51	51	75	35	36	58	-16.0	-15.5	-16.4
306930	Upgrade	65	60	85	50	50	72	56	56	79	5.7	6.3	7.2
306932	Upgrade	65	60	85	52	52	76	60	60	84	7.7	8.1	8.0
306934	Upgrade	65	60	85	48	48	78	56	56	80	7.5	7.9	2.0
306937	Upgrade	65	60	85	49	49	72	34	34	58	-15.0	-14.2	-13.8
306939	Upgrade	65	60	85	61	61	88	69	69	93	7.7	8.1	5.3
306940	Upgrade	65	60	85	51	50	75	58	58	82	7.3	7.7	6.9
306941	Upgrade	65	60	85	47	46	71	51	52	74	4.7	5.8	3.0
306942	Upgrade	65	60	85	50	50	75	55	55	79	4.7	5.4	3.6
306943	Upgrade	65	60	85	49	49	76	55	55	78	5.9	6.5	2.1
306945	Upgrade	65	60	85	44	44	67	50	50	72	6.1	6.6	4.8
306946	Upgrade	65	60	85	48	47	74	38	38	62	-10.4	-9.0	-11.9
306947	Upgrade	65	60	85	45	45	68	52	51	72	6.5	5.9	4.1
306948	Upgrade	65	60	85	61	61	89	69	69	93	7.8	8.2	3.9
306950	Upgrade	65	60	85	63	62	89	69	69	93	6.5	7.3	4.3
306954	Upgrade	65	60	85	48	48	74	54	54	77	5.3	6.1	3.0
306956	Upgrade	65	60	85	48	48	73	54	55	78	6.3	6.8	4.8
306958	Upgrade	65	60	85	48	48	71	54	54	77	5.5	6.1	6.1
306959	Upgrade	65	60	85	55	55	80	34	34	56	-20.7	-20.7	-23.7
306960	Upgrade	65	60	85	49	49	72	54	55	77	5.7	5.9	5.0
306961	Upgrade	65	60	85	57	57	84	65	65	89	7.8	8.0	4.7
306962	Upgrade	65	60	85	50	49	76	55	55	78	4.8	5.8	2.2

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
306963	Upgrade	65	60	85	47	46	71	37	37	61	-10.2	-9.0	-10.5
306965	Upgrade	65	60	85	47	47	69	53	53	75	6.0	6.3	5.9
306966	Upgrade	65	60	85	48	48	78	55	55	80	6.6	7.1	1.9
306967	Upgrade	65	60	85	47	48	70	53	53	76	5.7	5.8	5.7
306968	Upgrade	65	60	85	44	44	68	51	52	74	7.1	7.2	6.1
306971	Upgrade	65	60	85	47	47	70	53	53	75	5.9	6.0	5.8
306973	Upgrade	65	60	85	47	47	69	52	52	75	5.6	5.8	5.9
306974	Upgrade	65	60	85	53	53	80	60	60	84	6.5	7.0	4.1
306975	Upgrade	65	60	85	35	36	60	41	41	65	5.8	5.9	4.8
306976	Upgrade	65	60	85	42	42	65	49	49	72	6.9	7.0	6.4
306977	Upgrade	65	60	85	68	67	96	65	66	89	-3.0	-1.0	-6.6
306978	Upgrade	65	60	85	50	50	74	54	55	78	4.0	4.9	3.1
306980	Upgrade	65	60	85	48	47	74	54	54	78	6.5	7.1	3.6
306983	Upgrade	65	60	85	50	49	74	53	53	76	3.3	4.7	2.9
306984	Upgrade	65	60	85	49	48	71	37	37	60	-12.1	-11.1	-10.8
306985	Upgrade	65	60	85	57	56	83	64	64	88	7.0	7.6	4.8
306987	Upgrade	65	60	85	49	49	74	55	56	79	6.3	7.0	5.5
306988	Upgrade	65	60	85	48	47	74	55	55	78	6.9	7.5	4.1
306990	Upgrade	65	60	85	42	42	65	49	49	71	6.6	7.0	6.1
306992	Upgrade	65	60	85	47	46	71	36	36	60	-11.0	-9.9	-11.0
306993	Upgrade	65	60	85	48	48	73	53	53	76	4.7	5.6	3.3
306996	Upgrade	65	60	85	49	49	75	54	55	78	5.1	5.7	2.9
306998	Upgrade	65	60	85	45	45	67	51	51	73	5.9	6.1	6.1
307001	Upgrade	65	60	85	50	50	76	55	56	79	5.3	5.9	3.0
307003	Upgrade	65	60	85	47	46	72	37	38	61	-9.9	-8.6	-11.1
307005	Upgrade	65	60	85	48	48	71	37	38	61	-10.7	-9.8	-10.0
307007	Upgrade	65	60	85	44	44	68	51	51	74	6.6	6.5	5.3
307008	Upgrade	65	60	85	46	46	68	52	52	74	5.5	5.8	6.3
307009	Upgrade	65	60	85	49	49	70	55	55	78	6.2	6.7	7.5
307010	Upgrade	65	60	85	43	43	64	50	50	72	6.4	6.9	7.5
307011	Upgrade	65	60	85	47	47	69	53	53	75	6.1	6.2	5.9
307013	Upgrade	65	60	85	43	43	66	49	50	72	6.7	6.8	5.8
307014	Upgrade	65	60	85	43	43	65	48	49	72	5.5	5.6	6.5
307015	Upgrade	65	60	85	48	47	75	53	54	77	5.4	6.3	2.3
307016	Upgrade	65	60	85	47	47	69	53	53	75	6.1	6.3	5.8
307017	Upgrade	65	60	85	49	48	71	55	55	77	5.8	6.3	6.3
307019	Upgrade	65	60	85	42	42	66	49	49	71	7.0	7.0	5.3
307020	Upgrade	65	60	85	54	53	79	59	60	83	5.5	6.5	4.4
307021	Upgrade	65	60	85	50	50	76	54	54	78	3.6	4.2	1.7
307022	Upgrade	65	60	85	47	47	68	52	52	74	5.5	5.8	6.1
307023	Upgrade	65	60	85	57	56	83	63	63	87	5.4	6.3	3.2
307026	Upgrade	65	60	85	49	49	72	53	53	76	3.8	4.7	4.3
307027	Upgrade	65	60	85	65	64	90	69	70	93	4.7	6.0	3.1
307028	Upgrade	65	60	85	63	62	88	69	69	93	6.3	7.1	5.3
307029	Upgrade	65	60	85	44	43	65	49	49	71	5.5	6.0	5.6
307031	Upgrade	65	60	85	51	51	75	59	60	83	8.3	8.4	8.6
307033	Upgrade	65	60	85	49	49	71	55	55	76	5.4	5.8	4.7
307034	Upgrade	65	60	85	43	43	66	50	50	72	6.7	6.8	5.8
307035	Upgrade	65	60	85	49	48	73	54	54	77	4.6	5.6	3.7
307036	Upgrade	65	60	85	57	58	83	37	37	59	-20.2	-20.3	-23.8
307040	Upgrade	65	60	85	48	47	76	54	54	78	5.9	6.7	1.8



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
307041	Upgrade	65	60	85	49	49	68	55	55	77	6.3	6.6	9.1
307042	Upgrade	65	60	85	49	48	73	37	37	61	-12.1	-10.8	-12.3
307044	Upgrade	65	60	85	47	46	68	53	53	75	6.2	6.5	7.1
307046	Upgrade	65	60	85	45	45	67	50	51	72	5.8	6.0	5.2
307050	Upgrade	65	60	85	50	50	72	56	56	77	5.5	5.9	5.1
307051	Upgrade	65	60	85	41	41	64	47	47	70	5.9	5.9	5.6
307052	Upgrade	65	60	85	52	51	78	58	58	81	5.6	6.4	3.3
307053	Upgrade	65	60	85	48	48	71	36	36	59	-12.6	-11.6	-11.9
307056	Upgrade	65	60	85	42	42	65	47	48	71	5.7	5.7	5.6
307057	Upgrade	65	60	85	50	50	74	37	38	61	-12.8	-11.9	-13.0
307059	Upgrade	65	60	85	48	47	74	53	53	78	4.9	5.8	3.5
307063	Upgrade	65	60	85	23	23	49	30	30	54	7.0	7.0	4.8
307065	Upgrade	65	60	85	54	54	79	42	43	66	-11.5	-11.5	-13.5
307066	Upgrade	65	60	85	54	53	80	60	60	84	6.0	6.8	3.3
307068	Upgrade	65	60	85	49	49	68	55	55	77	6.2	6.5	9.1
307069	Upgrade	65	60	85	51	50	74	55	55	78	4.0	5.1	3.9
307070	Upgrade	65	60	85	44	43	66	49	49	69	5.4	6.0	3.1
307071	Upgrade	65	60	85	67	65	93	70	70	94	2.8	4.3	0.3
307072	Upgrade	65	60	85	45	45	68	51	51	73	6.0	6.3	5.9
307073	Upgrade	65	60	85	52	52	76	60	60	84	7.9	8.1	8.1
307075	Upgrade	65	60	85	49	49	71	55	55	76	5.7	5.9	5.2
307076	Upgrade	65	60	85	50	49	74	39	39	62	-11.1	-10.0	-11.7
307077	Upgrade	65	60	85	50	50	74	55	55	78	4.8	5.7	3.8
307078	Upgrade	65	60	85	65	63	91	64	65	88	-0.1	1.7	-3.2
307079	Upgrade	65	60	85	49	49	68	55	55	77	6.2	6.6	9.1
307081	Upgrade	65	60	85	54	54	82	60	61	84	6.4	7.0	2.9
307082	Upgrade	65	60	85	47	47	71	53	53	77	5.9	5.7	6.0
307084	Upgrade	65	60	85	47	46	72	37	38	61	-10.0	-8.9	-11.0
307085	Upgrade	65	60	85	55	54	81	60	60	84	4.5	5.5	2.8
307086	Upgrade	65	60	85	50	50	72	56	56	77	5.4	5.8	4.8
307087	Upgrade	65	60	85	50	50	72	57	57	80	6.3	6.7	8.1
307088	Upgrade	65	60	85	49	48	74	36	37	60	-12.9	-11.6	-14.3
307090	Upgrade	65	60	85	50	50	73	55	55	78	5.4	5.7	5.0
307091	Upgrade	65	60	85	70	68	97	69	69	93	-0.7	1.3	-4.1
307092	Upgrade	65	60	85	45	45	69	37	37	61	-8.5	-7.5	-8.9
307093	Upgrade	65	60	85	49	48	73	53	53	77	4.6	5.5	3.8
307094	Upgrade	65	60	85	61	61	87	32	32	55	-29.1	-29.1	-31.7
307095	Upgrade	65	60	85	51	51	75	58	58	82	7.6	7.9	6.8
307096	Upgrade	65	60	85	60	60	86	66	66	90	5.6	6.4	3.7
307098	Upgrade	65	60	85	50	49	75	53	53	76	3.1	4.0	1.6
307099	Upgrade	65	60	85	53	53	80	59	59	83	5.3	6.2	2.7
307100	Upgrade	65	60	85	49	48	73	54	54	77	4.8	5.9	4.6
307103	Upgrade	65	60	85	70	68	97	70	70	94	-0.5	1.5	-3.8
307104	Upgrade	65	60	85	41	42	64	47	48	69	6.2	6.2	5.3
307107	Upgrade	65	60	85	49	49	68	55	55	77	6.2	6.7	9.0
307108	Upgrade	65	60	85	42	42	64	48	48	70	6.3	6.3	6.2
307110	Upgrade	65	60	85	40	40	63	47	47	70	6.6	6.7	6.5
307113	Upgrade	65	60	85	48	48	72	54	54	76	5.9	5.9	4.7
307114	Upgrade	65	60	85	42	42	63	48	48	69	6.5	6.6	6.1
307115	Upgrade	65	60	85	50	49	74	37	37	61	-12.6	-11.3	-13.6
307116	Upgrade	65	60	85	41	41	64	47	48	70	6.2	6.2	5.7

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
307118	Upgrade	65	60	85	49	49	69	55	55	77	6.2	6.6	8.1
307119	Upgrade	65	60	85	50	50	73	36	36	59	-14.2	-13.3	-13.4
307122	Upgrade	65	60	85	47	47	70	53	53	76	6.1	6.2	5.9
307123	Upgrade	65	60	85	61	61	86	33	33	55	-27.5	-27.7	-31.2
307125	Upgrade	65	60	85	52	51	77	56	56	80	4.0	5.1	2.6
307129	Upgrade	65	60	85	47	48	70	53	54	76	6.0	6.2	5.8
307130	Upgrade	65	60	85	43	43	66	49	49	72	6.2	6.3	5.7
307131	Upgrade	65	60	85	50	50	76	56	56	79	5.4	6.1	3.3
307132	Upgrade	65	60	85	58	57	84	62	62	86	3.6	4.8	2.0
307134	Upgrade	65	60	85	48	47	74	54	54	77	6.2	6.8	2.5
307135	Upgrade	65	60	85	40	41	63	46	46	70	5.8	5.7	6.5
307137	Upgrade	65	60	85	48	48	72	54	54	77	5.7	5.8	5.1
307138	Upgrade	65	60	85	49	48	72	38	38	61	-11.1	-10.0	-10.4
307141	Upgrade	65	60	85	50	50	73	56	56	79	5.8	6.3	6.8
307143	Upgrade	65	60	85	48	47	74	39	40	63	-9.1	-7.9	-11.0
307144	Upgrade	65	60	85	47	47	69	53	53	76	5.7	5.6	6.6
307145	Upgrade	65	60	85	48	48	72	54	54	77	5.8	5.9	4.9
307147	Upgrade	65	60	85	44	44	65	50	50	71	5.5	5.9	5.8
307149	Upgrade	65	60	85	42	43	66	49	50	72	6.8	6.9	5.8
307150	Upgrade	65	60	85	72	70	99	69	70	96	-2.1	-0.1	-3.4
307151	Upgrade	65	60	85	48	48	69	55	55	78	6.4	6.7	8.3
307153	Upgrade	65	60	85	52	52	78	58	58	81	5.4	6.0	3.3
307154	Upgrade	65	60	85	43	42	64	48	48	69	5.8	6.3	4.5
307155	Upgrade	65	60	85	54	53	79	58	58	82	4.1	5.2	2.2
307156	Upgrade	65	60	85	49	47	74	52	52	75	3.3	4.7	1.0
307157	Upgrade	65	60	85	58	57	85	61	61	85	2.8	4.2	0.6
307159	Upgrade	65	60	85	44	44	66	50	50	72	5.8	5.8	5.7
307161	Upgrade	65	60	85	54	53	81	59	59	83	4.8	5.8	2.2
307162	Upgrade	65	60	85	71	69	98	70	70	96	-1.0	1.0	-2.3
307167	Upgrade	65	60	85	54	54	80	59	59	83	4.1	5.1	2.5
307168	Upgrade	65	60	85	48	48	71	54	54	76	5.8	5.9	5.7
307170	Upgrade	65	60	85	43	44	65	50	50	71	6.3	6.4	6.6
307171	Upgrade	65	60	85	50	50	76	53	53	76	2.3	3.3	0.4
307172	Upgrade	65	60	85	48	48	74	54	54	79	5.6	6.4	4.6
307173	Upgrade	65	60	85	60	60	85	35	36	58	-24.4	-24.5	-27.4
307174	Upgrade	65	60	85	50	50	73	56	56	78	5.5	5.7	5.2
307175	Upgrade	65	60	85	41	41	62	47	47	68	6.0	6.1	5.9
307177	Upgrade	65	60	85	48	48	70	54	54	76	5.8	5.9	5.5
307178	Upgrade	65	60	85	52	51	78	57	57	80	4.3	5.5	2.3
307180	Upgrade	65	60	85	50	50	73	56	56	78	5.8	5.8	5.5
307181	Upgrade	65	60	85	49	48	74	36	37	60	-12.7	-11.4	-14.1
307182	Upgrade	65	60	85	70	68	97	69	70	96	-0.3	1.5	-1.0
307183	Upgrade	65	60	85	40	40	63	46	46	69	5.8	5.8	5.9
307185	Upgrade	65	60	85	42	42	66	48	49	71	6.8	7.0	5.5
307187	Upgrade	65	60	85	49	49	69	55	55	78	6.1	6.6	8.8
307188	Upgrade	65	60	85	49	49	72	36	36	59	-13.6	-13.0	-13.0
307190	Upgrade	65	60	85	51	51	77	56	56	79	4.1	5.2	2.7
307191	Upgrade	65	60	85	53	52	79	57	57	81	3.5	4.8	1.9
307192	Upgrade	65	60	85	69	68	97	70	70	96	0.7	2.6	-0.7
307194	Upgrade	65	60	85	49	49	69	55	55	77	6.1	6.5	8.4
307195	Upgrade	65	60	85	48	49	71	54	54	76	5.7	5.8	5.6



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
307196	Upgrade	65	60	85	60	58	87	61	61	84	0.9	2.5	-2.1
307197	Upgrade	65	60	85	46	45	67	52	52	73	6.0	6.4	5.8
307198	Upgrade	65	60	85	58	57	84	61	61	85	2.5	3.9	1.0
307201	Upgrade	65	60	85	45	46	69	51	51	75	5.5	5.5	5.1
307202	Upgrade	65	60	85	60	59	88	59	59	83	-1.3	0.6	-4.7
307203	Upgrade	65	60	85	50	49	76	55	56	81	5.1	6.2	4.9
307204	Upgrade	65	60	85	44	44	67	50	51	73	6.6	6.7	6.0
307206	Upgrade	65	60	85	49	48	74	52	52	75	2.8	4.2	0.5
307208	Upgrade	65	60	85	45	45	66	50	50	71	5.5	5.6	5.6
307209	Upgrade	65	60	85	47	46	71	52	52	72	5.6	6.2	1.7
307213	Upgrade	65	60	85	48	48	71	54	54	76	5.9	6.0	5.5
307216	Upgrade	65	60	85	49	49	71	55	55	76	5.4	5.7	5.7
307220	Upgrade	65	60	85	51	51	78	56	57	80	5.4	5.9	1.9
307221	Upgrade	65	60	85	48	49	71	54	54	76	5.9	5.9	5.8
307223	Upgrade	65	60	85	50	49	75	38	39	62	-11.4	-10.0	-12.8
307225	Upgrade	65	60	85	55	54	80	59	60	83	4.5	5.4	3.0
307227	Upgrade	65	60	85	61	61	87	35	35	57	-25.8	-25.9	-29.7
307228	Upgrade	65	60	85	53	52	78	57	57	81	3.9	5.1	3.1
307229	Upgrade	65	60	85	52	51	74	56	57	80	4.7	5.7	5.7
307231	Upgrade	65	60	85	49	49	69	55	55	78	6.1	6.6	8.3
307232	Upgrade	65	60	85	44	44	66	50	50	73	6.2	6.3	6.2
307233	Upgrade	65	60	85	42	43	65	48	48	71	5.9	5.9	6.9
307235	Upgrade	65	60	85	62	60	89	60	61	87	-1.5	0.4	-2.0
307236	Upgrade	65	60	85	51	50	75	55	56	79	4.7	5.9	4.4
307239	Upgrade	65	60	85	49	49	68	55	55	77	6.0	6.6	9.0
307240	Upgrade	65	60	85	54	53	80	57	58	81	3.1	4.5	1.1
307242	Upgrade	65	60	85	49	49	71	55	55	76	5.6	5.9	5.7
307243	Upgrade	65	60	85	49	48	72	37	38	61	-11.4	-10.4	-11.0
307244	Upgrade	65	60	85	49	49	77	53	53	76	3.6	4.4	-1.2
307245	Upgrade	65	60	85	50	49	72	55	55	77	5.6	5.9	4.6
307247	Upgrade	65	60	85	49	49	72	54	55	77	5.7	6.0	4.8
307249	Upgrade	65	60	85	49	48	69	55	55	77	6.0	6.5	7.7
307250	Upgrade	65	60	85	66	64	94	62	62	88	-3.8	-1.8	-6.1
307251	Upgrade	65	60	85	51	50	74	37	37	60	-14.2	-13.1	-14.4
307253	Upgrade	65	60	85	50	49	74	37	37	60	-13.3	-12.1	-13.8
307254	Upgrade	65	60	85	49	48	72	37	38	61	-11.7	-10.5	-11.4
307256	Upgrade	65	60	85	50	51	75	57	57	81	6.3	6.2	5.5
307259	Upgrade	65	60	85	51	52	75	58	58	82	6.3	6.4	6.5
307260	Upgrade	65	60	85	49	49	73	55	55	77	5.5	5.8	4.5
307261	Upgrade	65	60	85	50	50	74	56	56	79	6.0	6.0	5.6
307262	Upgrade	65	60	85	50	50	73	56	56	78	5.5	5.7	5.0
307263	Upgrade	65	60	85	50	50	73	55	56	78	5.7	5.9	5.2
307264	Upgrade	65	60	85	55	54	80	59	59	83	4.0	5.1	2.9
307265	Upgrade	65	60	85	50	50	73	56	56	78	5.6	5.7	5.2
307266	Upgrade	65	60	85	52	51	77	56	56	79	3.9	5.0	2.5
307267	Upgrade	65	60	85	49	48	74	53	53	78	4.2	5.3	4.0
307268	Upgrade	65	60	85	46	45	69	38	39	62	-7.4	-6.5	-6.4
307269	Upgrade	65	60	85	52	51	79	57	57	81	4.6	5.6	2.0
307271	Upgrade	65	60	85	43	43	67	49	49	72	5.7	5.7	5.7
307273	Upgrade	65	60	85	50	50	72	56	56	78	5.8	6.2	5.8
307274	New	60	55	80	-	-	-	51	51	74	-	-	-

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
307275	Upgrade	65	60	85	59	57	86	59	59	83	0.0	1.8	-3.0
307276	Upgrade	65	60	85	62	60	89	61	61	88	-0.5	1.4	-0.8
307281	Upgrade	65	60	85	58	57	84	59	59	84	0.8	2.5	-0.2
307282	Upgrade	65	60	85	50	49	75	38	38	62	-12.4	-11.2	-13.2
307283	Upgrade	65	60	85	53	52	78	56	57	80	3.3	4.5	2.1
307284	Upgrade	65	60	85	60	59	86	65	66	93	5.1	6.3	6.8
307286	Upgrade	65	60	85	51	51	80	57	58	81	6.1	6.5	1.2
307290	Upgrade	65	60	85	42	43	64	48	48	71	5.7	5.6	7.0
307291	Upgrade	65	60	85	44	44	67	51	52	73	7.4	7.5	6.0
307292	Upgrade	65	60	85	50	50	79	57	57	83	6.5	7.2	4.8
307293	Upgrade	65	60	85	41	41	64	46	47	70	5.7	5.5	5.8
307296	Upgrade	65	60	85	49	48	70	54	54	75	5.3	5.8	5.2
307297	Upgrade	65	60	85	70	68	97	70	71	96	0.4	2.3	-0.4
307299	Upgrade	65	60	85	50	50	77	54	55	77	4.4	5.0	0.5
307300	Upgrade	65	60	85	64	62	92	59	59	86	-4.9	-2.8	-5.6
307301	Upgrade	65	60	85	43	43	65	49	49	71	6.0	5.9	6.3
307303	Upgrade	65	60	85	53	52	79	57	57	81	4.5	5.5	1.9
307304	Upgrade	65	60	85	62	61	88	65	65	88	2.3	3.8	0.3
307305	Upgrade	65	60	85	68	67	95	70	70	96	1.6	3.4	0.4
307306	Upgrade	65	60	85	38	38	63	43	44	67	5.6	5.6	4.4
307307	Upgrade	65	60	85	50	49	75	55	55	78	4.8	5.9	3.6
307309	Upgrade	65	60	85	51	50	75	36	36	60	-14.5	-13.4	-15.1
307310	Upgrade	65	60	85	32	33	56	38	39	62	5.9	5.9	5.6
307312	Upgrade	65	60	85	49	48	76	53	53	76	3.8	4.7	0.1
307313	Upgrade	65	60	85	49	49	69	55	56	78	6.2	6.6	8.8
307314	Upgrade	65	60	85	50	50	74	58	58	82	8.0	8.1	8.6
307316	Upgrade	65	60	85	52	51	78	56	56	80	3.1	4.5	2.1
307317	Upgrade	65	60	85	52	52	75	57	57	81	5.3	5.9	5.4
307321	Upgrade	65	60	85	65	63	92	60	60	86	-4.7	-2.7	-6.5
307322	Upgrade	65	60	85	47	47	71	54	55	78	7.7	7.8	7.6
307323	Upgrade	65	60	85	49	49	70	55	55	77	6.0	6.4	6.9
307326	Upgrade	65	60	85	50	50	74	56	56	79	6.2	6.7	5.2
307327	Upgrade	65	60	85	50	50	76	55	56	78	4.8	5.5	2.9
307328	Upgrade	65	60	85	47	48	72	53	53	76	5.7	5.7	4.8
307329	Upgrade	65	60	85	49	49	72	55	55	77	5.9	6.4	4.3
307330	Upgrade	65	60	85	44	45	66	50	51	71	6.1	6.2	5.7
307331	Upgrade	65	60	85	57	56	83	58	59	82	1.5	3.1	-1.0
307332	Upgrade	65	60	85	50	49	75	39	39	62	-11.3	-10.1	-12.6
307333	Upgrade	65	60	85	51	50	79	56	56	82	4.5	5.7	3.9
307334	Upgrade	65	60	85	49	48	74	52	52	75	3.0	4.2	1.9
307335	Upgrade	65	60	85	50	49	72	56	56	77	5.9	6.4	4.2
307336	Upgrade	65	60	85	44	44	66	50	51	72	6.4	6.4	6.3
307339	Upgrade	65	60	85	50	50	74	55	55	78	5.3	5.8	4.6
307341	Upgrade	65	60	85	72	70	100	70	70	96	-2.4	-0.3	-3.4
307342	Upgrade	65	60	85	45	46	69	51	52	74	6.1	6.1	5.7
307343	Upgrade	65	60	85	51	51	74	35	36	58	-15.9	-15.1	-15.7
307345	Upgrade	65	60	85	56	55	82	58	58	82	1.9	3.4	0.1
307347	Upgrade	65	60	85	50	50	71	56	56	79	6.2	6.5	7.6
307349	Upgrade	65	60	85	54	53	78	57	57	80	3.1	4.4	2.2
307351	Upgrade	65	60	85	50	49	78	55	55	79	4.6	5.7	0.6
307352	Upgrade	65	60	85	43	43	65	49	49	71	5.9	6.0	5.7



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
307353	Upgrade	65	60	85	60	59	84	62	62	88	1.6	3.2	4.4
307357	Upgrade	65	60	85	63	61	90	58	58	85	-4.5	-2.3	-4.8
307359	Upgrade	65	60	85	38	38	62	44	44	68	5.9	5.9	5.5
307361	Upgrade	65	60	85	50	49	74	54	54	78	4.4	5.5	3.4
307362	Upgrade	65	60	85	50	49	75	52	52	75	1.8	3.1	-0.4
307363	Upgrade	65	60	85	49	48	76	52	52	75	2.3	3.8	-0.4
307364	Upgrade	65	60	85	48	48	75	53	53	76	4.6	5.6	0.3
307367	Upgrade	65	60	85	57	56	84	55	56	80	-1.8	0.2	-4.4
307368	Upgrade	65	60	85	54	53	79	57	57	81	2.8	4.2	2.0
307369	Upgrade	65	60	85	55	53	81	57	57	80	2.0	3.6	-0.6
307370	Upgrade	65	60	85	51	51	74	37	38	61	-13.8	-13.1	-13.4
307371	Upgrade	65	60	85	45	45	68	51	52	74	6.3	6.4	6.4
307377	Upgrade	65	60	85	50	50	73	37	37	60	-13.8	-12.8	-13.4
307379	Upgrade	65	60	85	49	49	71	55	55	77	5.9	6.3	5.8
307380	Upgrade	65	60	85	67	65	95	64	64	90	-3.4	-1.2	-4.5
307381	Upgrade	65	60	85	49	49	74	55	55	78	5.6	6.2	4.4
307382	Upgrade	65	60	85	62	61	90	59	59	86	-3.8	-1.8	-4.1
307383	Upgrade	65	60	85	50	49	76	53	53	76	2.8	4.1	0.9
307384	Upgrade	65	60	85	48	47	73	52	52	76	4.0	5.1	2.4
307386	Upgrade	65	60	85	50	49	75	53	53	77	3.4	4.6	1.9
307387	Upgrade	65	60	85	50	49	73	40	40	64	-10.0	-9.1	-9.3
307389	Upgrade	65	60	85	55	54	81	57	57	81	2.2	3.6	0.5
307391	Upgrade	65	60	85	50	49	75	52	52	75	1.7	3.2	0.2
307393	Upgrade	65	60	85	58	57	85	57	58	82	-0.8	1.0	-3.9
307396	Upgrade	65	60	85	48	48	72	54	54	77	6.0	6.5	5.0
307397	Upgrade	65	60	85	69	67	97	65	65	92	-4.4	-2.3	-5.1
307399	Upgrade	65	60	85	53	52	81	59	59	84	6.2	6.9	3.9
307402	Upgrade	65	60	85	46	46	72	52	53	76	6.5	6.8	3.9
307403	Upgrade	65	60	85	50	49	70	56	56	77	5.8	6.3	6.2
307406	Upgrade	65	60	85	43	43	64	44	44	68	1.0	1.2	3.6
307407	Upgrade	65	60	85	58	57	84	60	61	87	2.0	3.7	3.6
307408	Upgrade	65	60	85	49	49	72	55	55	78	6.4	6.3	6.5
307409	Upgrade	65	60	85	50	49	77	52	52	76	2.0	3.4	-0.8
307411	Upgrade	65	60	85	51	50	79	57	58	83	6.4	7.2	4.1
307412	Upgrade	65	60	85	51	50	76	38	38	62	-13.3	-12.0	-14.1
307413	Upgrade	65	60	85	59	59	84	64	65	88	5.2	6.0	3.8
307417	Upgrade	65	60	85	49	50	72	57	57	80	7.2	7.2	8.7
307419	Upgrade	65	60	85	53	52	78	55	56	79	2.1	3.6	1.1
307420	Upgrade	65	60	85	53	51	77	55	56	79	2.9	4.3	1.6
307421	Upgrade	65	60	85	46	46	69	52	52	75	6.1	6.2	5.6
307422	Upgrade	65	60	85	50	50	72	56	56	76	5.6	6.1	4.7
307424	Upgrade	65	60	85	48	48	75	51	52	74	2.9	4.0	-0.8
307425	Upgrade	65	60	85	61	59	88	60	60	86	-0.7	1.1	-1.8
307426	Upgrade	65	60	85	61	60	89	57	57	84	-4.6	-2.5	-5.4
307427	Upgrade	65	60	85	51	50	75	54	54	78	3.2	4.4	2.5
307430	Upgrade	65	60	85	49	48	74	53	53	76	3.9	4.8	2.2
307431	Upgrade	65	60	85	47	46	73	52	53	76	5.7	6.5	3.0
307432	Upgrade	65	60	85	64	62	92	58	59	85	-6.0	-3.8	-7.2
307433	Upgrade	65	60	85	45	45	67	51	51	73	6.2	6.3	5.6
307435	Upgrade	65	60	85	52	51	78	56	56	80	4.0	5.2	2.6
307436	Upgrade	65	60	85	49	48	73	52	52	75	3.6	4.7	1.9

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
307438	Upgrade	65	60	85	50	49	75	52	53	76	2.7	4.0	0.7
307439	Upgrade	65	60	85	69	67	97	65	65	92	-4.5	-2.3	-5.1
307440	Upgrade	65	60	85	54	53	80	56	56	80	1.6	3.1	0.0
307441	Upgrade	65	60	85	49	48	73	53	53	76	4.0	5.1	3.2
307442	Upgrade	65	60	85	53	52	76	38	39	62	-14.3	-13.4	-13.8
307443	Upgrade	65	60	85	44	45	67	51	51	73	6.3	6.3	6.6
307445	Upgrade	65	60	85	52	51	74	39	39	62	-13.2	-12.4	-12.0
307448	Upgrade	65	60	85	48	47	73	52	52	75	3.1	4.4	1.9
307449	Upgrade	65	60	85	49	48	75	51	51	74	1.6	3.2	-0.1
307451	Upgrade	65	60	85	40	40	62	42	42	65	1.6	2.2	3.3
307453	Upgrade	65	60	85	56	54	81	56	56	80	0.6	2.3	-1.3
307454	Upgrade	65	60	85	53	52	80	55	55	78	1.4	2.9	-2.1
307458	Upgrade	65	60	85	47	46	71	51	51	74	4.0	5.1	3.0
307460	Upgrade	65	60	85	48	47	72	50	50	74	2.0	3.4	1.4
307462	Upgrade	65	60	85	53	53	80	58	58	81	4.6	5.4	0.9
307463	Upgrade	65	60	85	52	52	74	57	57	79	4.8	5.3	4.3
307464	Upgrade	65	60	85	58	57	85	59	60	86	1.3	3.0	1.1
307466	Upgrade	65	60	85	52	51	77	54	55	78	2.6	3.9	1.1
307467	Upgrade	65	60	85	58	56	83	59	59	85	0.7	2.5	1.9
307469	Upgrade	65	60	85	51	51	74	40	40	64	-11.4	-10.5	-10.2
307470	Upgrade	65	60	85	49	48	74	53	53	76	3.3	4.7	2.2
307476	Upgrade	65	60	85	53	52	78	55	55	79	2.3	3.8	0.9
307477	Upgrade	65	60	85	38	38	62	44	44	67	5.7	5.7	5.0
307478	Upgrade	65	60	85	60	58	87	56	56	83	-4.1	-2.0	-4.6
307479	Upgrade	65	60	85	41	41	65	48	49	71	7.3	7.4	6.3
307483	Upgrade	65	60	85	60	58	88	56	56	83	-3.7	-1.7	-4.9
307485	Upgrade	65	60	85	52	51	77	54	55	78	2.2	3.7	1.0
307486	New	60	55	80	-	-	-	57	57	81	-	-	-
307489	Upgrade	65	60	85	56	55	82	61	61	86	5.4	6.2	3.7
307491	Upgrade	65	60	85	47	48	70	54	54	76	6.4	6.4	5.9
307493	Upgrade	65	60	85	53	52	76	39	39	62	-14.4	-13.5	-13.9
307498	Upgrade	65	60	85	41	41	64	47	47	71	5.8	5.8	6.4
307500	Upgrade	65	60	85	57	55	83	58	59	85	1.7	3.4	1.5
307501	Upgrade	65	60	85	54	54	81	60	60	84	5.9	6.2	2.4
307503	Upgrade	65	60	85	51	51	75	38	39	62	-13.0	-12.1	-13.3
307504	Upgrade	65	60	85	56	54	82	56	56	82	-0.4	1.5	-0.7
307505	Upgrade	65	60	85	49	48	73	51	51	74	2.2	3.6	0.8
307506	Upgrade	65	60	85	49	49	75	54	54	77	4.1	5.1	2.4
307508	Upgrade	65	60	85	51	50	77	52	52	76	1.2	2.8	-0.8
307511	Upgrade	65	60	85	46	46	69	53	54	76	7.6	7.7	6.7
307514	Upgrade	65	60	85	56	55	83	55	56	79	-1.1	0.8	-3.8
307518	Upgrade	65	60	85	54	54	83	60	60	84	5.8	6.0	0.4
307519	Upgrade	65	60	85	56	54	82	58	58	84	2.3	3.8	2.6
307520	Upgrade	65	60	85	50	49	74	53	53	76	3.2	4.4	1.1
307521	Upgrade	65	60	85	48	48	72	54	54	77	6.2	6.2	5.1
307522	Upgrade	65	60	85	64	62	92	63	63	86	-1.3	0.6	-5.2
307523	Upgrade	65	60	85	54	53	80	54	55	78	0.2	1.9	-2.5
307524	Upgrade	65	60	85	44	44	68	51	51	74	7.0	7.0	5.8
307525	Upgrade	65	60	85	58	58	87	65	65	89	6.2	6.5	1.7
307526	Upgrade	65	60	85	55	55	85	61	61	85	5.4	5.8	-0.6
307529	Upgrade	65	60	85	52	51	78	54	55	78	2.0	3.6	0.3



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		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
307531	Upgrade	65	60	85	54	53	79	54	55	78	0.6	2.2	-1.2
307533	Upgrade	65	60	85	61	59	89	56	57	83	-4.9	-2.8	-5.4
307536	Upgrade	65	60	85	61	59	88	56	56	82	-4.6	-2.6	-6.0
307537	Upgrade	65	60	85	52	51	75	40	41	64	-11.8	-10.7	-10.7
307539	Upgrade	65	60	85	53	53	76	37	38	61	-15.5	-14.9	-14.8
307540	Upgrade	65	60	85	49	48	74	51	51	75	1.9	3.4	0.4
307541	Upgrade	65	60	85	29	29	51	34	35	58	5.8	5.7	6.6
307543	Upgrade	65	60	85	42	43	66	49	50	73	6.8	6.8	7.0
307550	Upgrade	65	60	85	56	55	81	58	58	84	1.2	2.8	2.9
307551	Upgrade	65	60	85	47	46	71	52	52	74	4.6	5.6	3.8
307552	Upgrade	65	60	85	33	33	58	39	39	63	5.8	5.6	4.4
307553	Upgrade	65	60	85	54	54	79	36	36	59	-18.6	-18.4	-19.9
307555	Upgrade	65	60	85	49	48	74	52	52	75	2.7	4.0	0.7
307560	Upgrade	65	60	85	63	61	91	62	63	86	-0.7	1.3	-4.4
307561	Upgrade	65	60	85	55	53	82	55	55	78	0.0	1.8	-3.6
307562	Upgrade	65	60	85	55	54	82	53	53	77	-2.1	-0.2	-5.1
307564	Upgrade	65	60	85	56	54	83	57	58	84	1.7	3.3	1.2
307567	Upgrade	65	60	85	48	47	74	53	53	76	5.0	5.9	2.4
307569	Upgrade	65	60	85	49	48	73	52	53	75	3.4	4.6	2.0
307572	Upgrade	65	60	85	41	41	64	47	47	70	5.9	5.9	6.0
307573	Upgrade	65	60	85	50	49	74	52	53	75	2.8	4.1	1.0
307574	Upgrade	65	60	85	58	57	86	55	55	81	-3.6	-1.7	-4.6
307576	Upgrade	65	60	85	52	51	79	54	55	81	1.9	3.6	1.8
307577	Upgrade	65	60	85	55	55	79	38	38	61	-17.0	-16.6	-17.9
307578	Upgrade	65	60	85	53	53	76	40	40	63	-13.8	-12.9	-13.3
307580	Upgrade	65	60	85	52	52	75	40	40	63	-12.2	-11.5	-12.2
307582	Upgrade	65	60	85	56	54	82	58	58	85	2.0	3.7	3.3
307585	Upgrade	65	60	85	58	56	85	55	55	81	-3.0	-0.9	-4.2
307588	Upgrade	65	60	85	52	51	77	54	54	77	1.7	3.2	-0.3
307589	Upgrade	65	60	85	27	27	51	33	33	57	5.9	5.9	6.1
307590	Upgrade	65	60	85	54	53	80	55	55	80	0.2	2.0	-0.2
307591	Upgrade	65	60	85	26	26	49	32	32	54	5.9	5.8	5.7
307593	Upgrade	65	60	85	33	34	56	39	39	62	5.6	5.5	5.9
307594	Upgrade	65	60	85	52	51	79	52	52	75	-0.2	1.5	-3.4
307597	Upgrade	65	60	85	49	48	74	52	52	75	2.7	4.1	0.6
307598	Upgrade	65	60	85	41	41	63	41	42	65	0.0	0.4	1.9
307599	Upgrade	65	60	85	60	58	87	61	61	85	0.9	2.8	-2.1
307606	Upgrade	65	60	85	46	47	70	53	54	76	7.0	7.1	5.9
307607	Upgrade	65	60	85	53	52	79	54	55	77	1.0	2.6	-2.0
307613	Upgrade	65	60	85	54	53	80	57	57	83	3.0	4.5	3.2
307614	Upgrade	65	60	85	53	52	79	57	57	84	3.3	4.6	4.9
307617	Upgrade	65	60	85	42	42	65	48	48	71	5.9	5.8	6.2
307619	Upgrade	65	60	85	51	50	75	54	54	77	2.8	4.1	1.4
307620	Upgrade	65	60	85	52	50	77	52	52	75	0.3	1.9	-1.9
307621	Upgrade	65	60	85	50	49	73	55	55	76	5.4	5.9	3.1
307624	Upgrade	65	60	85	57	56	85	54	54	79	-3.2	-1.1	-5.4
307625	Upgrade	65	60	85	45	45	69	52	53	75	7.3	7.4	6.0
307627	Upgrade	65	60	85	59	57	86	60	60	84	1.1	2.9	-1.6
307628	Upgrade	65	60	85	55	53	81	53	53	76	-2.0	0.0	-5.4
307630	Upgrade	65	60	85	51	51	75	57	57	77	5.5	5.9	2.1
307631	New	60	55	80	-	-	-	53	53	73	-	-	-

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
307632	Upgrade	65	60	85	52	51	79	53	53	77	0.6	2.3	-2.5
307633	Upgrade	65	60	85	48	49	74	54	55	78	6.0	6.1	4.0
307634	Upgrade	65	60	85	57	56	84	55	55	81	-2.8	-0.8	-3.8
307636	Upgrade	65	60	85	18	18	43	26	26	50	8.2	8.2	7.2
307638	Upgrade	65	60	85	53	52	78	55	55	78	2.1	3.5	0.3
307639	Upgrade	65	60	85	48	48	73	54	54	77	6.1	6.2	4.6
307640	Upgrade	65	60	85	52	51	77	54	55	77	2.2	3.6	0.5
307642	Upgrade	65	60	85	49	48	73	52	52	75	2.5	3.9	1.3
307643	Upgrade	65	60	85	53	51	78	54	55	77	1.7	3.3	-0.2
307644	Upgrade	65	60	85	48	47	72	52	52	75	3.8	4.8	2.9
307645	Upgrade	65	60	85	55	53	78	56	56	82	1.3	2.9	3.7
307646	Upgrade	65	60	85	53	52	79	55	55	78	1.4	3.0	-1.0
307647	Upgrade	65	60	85	54	53	79	56	56	82	2.0	3.6	2.6
307648	Upgrade	65	60	85	49	49	73	55	56	78	6.1	6.2	5.3
307649	Upgrade	65	60	85	57	56	84	60	60	84	2.8	4.5	-0.2
307650	Upgrade	65	60	85	54	52	80	53	54	77	-0.2	1.6	-3.3
307652	Upgrade	65	60	85	41	41	64	47	47	70	5.9	5.8	6.4
307654	New	60	55	80	-	-	-	54	54	76	-	-	-
307656	Upgrade	65	60	85	49	48	72	52	53	75	3.5	4.6	2.8
307658	Upgrade	65	60	85	41	41	62	43	43	67	1.4	1.7	4.4
307659	Upgrade	65	60	85	41	41	64	47	47	70	6.0	5.9	6.2
307665	Upgrade	65	60	85	49	48	73	52	53	75	3.7	4.9	2.7
307667	Upgrade	65	60	85	36	36	61	41	42	65	5.7	5.8	4.8
307669	Upgrade	65	60	85	52	52	75	38	38	62	-14.6	-13.8	-13.3
307671	Upgrade	65	60	85	50	50	74	56	56	79	6.0	6.0	5.1
307672	Upgrade	65	60	85	49	48	73	52	52	75	2.6	3.9	1.8
307673	Upgrade	65	60	85	51	50	76	52	53	75	1.5	3.0	-1.0
307674	Upgrade	65	60	85	42	42	65	44	45	68	2.3	2.5	3.8
307675	Upgrade	65	60	85	54	53	79	56	56	82	1.7	3.4	2.5
307676	Upgrade	65	60	85	53	52	80	54	54	77	0.4	2.1	-3.1
307677	Upgrade	65	60	85	52	51	76	53	54	77	1.7	3.2	0.7
307678	Upgrade	65	60	85	49	48	72	51	52	74	2.8	4.1	2.6
307680	Upgrade	65	60	85	51	50	76	53	53	75	1.9	3.4	-0.8
307682	Upgrade	65	60	85	44	43	71	48	48	71	4.3	5.1	0.0
307683	Upgrade	65	60	85	46	47	70	54	54	77	7.7	7.7	7.5
307685	Upgrade	65	60	85	52	50	77	52	53	75	0.6	2.4	-2.0
307686	Upgrade	65	60	85	45	45	66	45	46	69	0.6	1.0	3.5
307687	Upgrade	65	60	85	26	26	51	32	32	56	6.3	6.2	5.1
307688	Upgrade	65	60	85	57	55	84	53	54	80	-3.5	-1.3	-4.1
307689	Upgrade	65	60	85	49	49	74	53	53	75	3.2	4.4	1.4
307690	Upgrade	65	60	85	47	46	70	52	52	75	4.5	5.4	4.3
307693	Upgrade	65	60	85	54	53	81	54	54	78	0.0	1.8	-2.7
307694	Upgrade	65	60	85	46	45	69	51	51	73	4.7	5.5	3.4
307698	Upgrade	65	60	85	48	48	71	53	54	77	5.8	5.8	6.1
307700	Upgrade	65	60	85	48	48	71	55	55	78	6.8	6.7	7.8
307702	Upgrade	65	60	85	54	53	80	45	46	69	-9.0	-7.4	-11.0
307703	Upgrade	65	60	85	50	49	75	52	53	75	2.5	3.8	0.3
307704	Upgrade	65	60	85	49	49	74	55	55	78	6.0	6.1	4.4
307705	Upgrade	65	60	85	57	55	84	55	55	79	-2.6	-0.5	-4.7
307706	Upgrade	65	60	85	51	51	74	57	57	78	5.5	5.9	3.7
307710	Upgrade	65	60	85	57	55	83	54	54	80	-3.0	-0.9	-3.7



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
307712	Upgrade	65	60	85	50	49	75	53	53	75	2.5	3.9	0.4
307713	Upgrade	65	60	85	53	52	79	57	57	81	3.8	5.0	1.4
307715	Upgrade	65	60	85	51	51	74	57	57	80	6.2	6.2	5.5
307717	Upgrade	65	60	85	49	47	73	50	50	73	1.3	2.9	-0.8
307718	Upgrade	65	60	85	40	40	61	40	41	64	0.6	1.0	3.5
307723	Upgrade	65	60	85	54	53	79	55	56	80	1.3	3.0	0.7
307726	Upgrade	65	60	85	51	50	75	54	54	76	2.8	4.1	1.0
307727	Upgrade	65	60	85	54	52	79	54	54	77	0.1	1.9	-1.2
307728	Upgrade	65	60	85	48	47	73	49	50	72	1.5	3.1	-0.7
307729	Upgrade	65	60	85	52	51	78	53	53	76	1.0	2.6	-1.8
307730	Upgrade	65	60	85	55	53	80	53	54	78	-1.5	0.5	-2.1
307732	Upgrade	65	60	85	35	36	59	41	41	65	5.9	5.9	5.9
307734	Upgrade	65	60	85	50	50	74	56	57	79	6.2	6.2	4.9
307736	Upgrade	65	60	85	51	50	76	53	53	76	2.1	3.5	0.0
307738	Upgrade	65	60	85	54	53	80	55	55	81	1.0	2.7	0.7
307739	Upgrade	65	60	85	48	47	72	50	50	73	2.3	3.7	0.6
307740	Upgrade	65	60	85	51	50	76	53	53	76	2.1	3.6	0.2
307743	Upgrade	65	60	85	51	50	76	53	53	75	1.6	3.1	-0.4
307744	Upgrade	65	60	85	50	50	74	56	56	79	6.1	6.2	4.9
307745	Upgrade	65	60	85	47	46	71	50	51	72	3.3	4.5	1.6
307746	Upgrade	65	60	85	52	50	79	52	53	79	0.8	2.5	0.6
307747	Upgrade	65	60	85	43	43	64	44	44	68	0.6	1.0	3.9
307748	Upgrade	65	60	85	49	47	73	50	51	72	1.8	3.3	-0.7
307750	Upgrade	65	60	85	56	55	82	59	59	83	3.0	4.5	0.9
307751	Upgrade	65	60	85	54	52	80	56	56	81	2.4	4.1	1.3
307752	Upgrade	65	60	85	52	50	77	53	53	76	1.2	2.9	-1.1
307753	Upgrade	65	60	85	49	47	73	51	51	73	2.2	3.7	0.3
307757	Upgrade	65	60	85	47	46	71	50	51	73	3.0	4.3	1.8
307760	Upgrade	65	60	85	48	48	72	55	56	78	7.6	7.7	6.3
307761	Upgrade	65	60	85	47	46	72	49	50	72	2.8	4.2	-0.1
307762	Upgrade	65	60	85	49	50	73	55	56	78	6.0	5.9	5.1
307764	Upgrade	65	60	85	49	48	74	51	51	74	1.7	3.1	-0.3
307767	Upgrade	65	60	85	38	39	62	44	45	68	6.1	6.1	6.1
307768	Upgrade	65	60	85	50	48	75	51	52	73	1.7	3.2	-2.1
307770	Upgrade	65	60	85	49	50	73	56	56	79	6.5	6.4	5.3
307771	Upgrade	65	60	85	41	41	63	41	42	65	0.3	0.7	2.2
307772	Upgrade	65	60	85	49	48	74	50	50	72	0.8	2.5	-2.0
307773	Upgrade	65	60	85	38	39	62	44	44	68	5.9	5.9	5.7
307775	Upgrade	65	60	85	59	57	85	61	61	84	2.1	3.7	-0.6
307777	Upgrade	65	60	85	52	51	76	53	53	76	1.2	2.8	-0.6
307778	Upgrade	65	60	85	48	46	72	50	50	71	2.1	3.6	-0.5
307779	Upgrade	65	60	85	49	49	73	55	55	79	6.4	6.3	6.1
307781	Upgrade	65	60	85	53	52	79	54	54	77	0.4	2.1	-2.5
307782	Upgrade	65	60	85	54	52	80	54	55	77	0.6	2.4	-3.6
307783	Upgrade	65	60	85	52	51	77	53	54	76	1.1	2.7	-1.0
307786	Upgrade	65	60	85	45	45	67	51	51	73	5.7	5.7	5.9
307787	Upgrade	65	60	85	47	46	71	50	50	73	2.8	4.2	1.2
307788	Upgrade	65	60	85	24	25	50	32	32	56	7.7	7.7	6.1
307790	Upgrade	65	60	85	49	48	74	51	51	74	1.7	3.2	-0.3
307791	Upgrade	65	60	85	52	50	76	52	52	75	0.0	1.8	-1.4
307793	Upgrade	65	60	85	50	49	76	51	51	74	0.5	2.2	-1.8

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax
307795	Upgrade	65	60	85	50	51	75	56	57	80	6.0	6.1	4.5
307799	Upgrade	65	60	85	54	53	79	53	53	76	-1.6	0.3	-3.4
307800	Upgrade	65	60	85	51	50	76	53	53	76	2.1	3.6	-0.4
307801	Upgrade	65	60	85	52	51	79	54	54	77	1.6	3.2	-1.6
307803	Upgrade	65	60	85	40	41	64	46	47	70	6.0	5.9	5.8
307807	Upgrade	65	60	85	47	46	72	49	49	72	1.8	3.3	-0.3
307808	Upgrade	65	60	85	47	47	71	54	54	78	6.8	6.8	6.6
307810	Upgrade	65	60	85	50	49	77	50	51	73	0.4	2.1	-3.5
307812	Upgrade	65	60	85	43	43	65	49	50	72	5.9	6.5	6.6
307815	Upgrade	65	60	85	48	47	74	50	50	72	1.9	3.3	-1.4
307817	Upgrade	65	60	85	50	49	75	51	51	74	1.0	2.6	-0.9
307818	Upgrade	65	60	85	50	48	76	51	51	74	0.8	2.4	-2.2
307820	Upgrade	65	60	85	48	47	73	50	51	74	2.8	4.2	0.8
307824	Upgrade	65	60	85	56	56	83	63	63	87	7.3	7.7	4.0
307827	Upgrade	65	60	85	51	49	76	51	51	74	0.1	2.0	-2.0
307829	Upgrade	65	60	85	53	52	78	55	55	78	1.7	3.2	-0.6
307830	Upgrade	65	60	85	37	37	62	43	43	66	5.9	5.9	4.3
307831	Upgrade	65	60	85	54	52	82	52	52	75	-2.2	-0.2	-6.6
307832	Upgrade	65	60	85	51	49	75	50	51	73	-0.3	1.5	-1.8
307833	Upgrade	65	60	85	55	53	79	55	55	80	0.3	2.1	1.1
307835	Upgrade	65	60	85	53	52	78	55	56	79	2.0	3.6	0.5
307836	Upgrade	65	60	85	49	47	73	50	50	73	1.0	2.6	-0.1
307837	Upgrade	65	60	85	54	52	80	54	54	78	0.6	2.4	-2.2
307838	Upgrade	65	60	85	48	47	72	50	50	72	1.9	3.4	0.7
307840	Upgrade	65	60	85	53	52	78	54	55	79	0.9	2.7	0.2
307841	Upgrade	65	60	85	18	18	41	28	28	51	9.6	9.6	10.1
307845	Upgrade	65	60	85	38	38	61	44	44	68	6.1	6.0	6.8
307848	Upgrade	65	60	85	61	62	87	37	37	59	-24.2	-24.2	-27.9
307852	Upgrade	65	60	85	48	47	74	49	49	72	0.9	2.5	-2.0
307853	Upgrade	65	60	85	48	48	74	58	58	81	10.0	10.1	6.8
307854	Upgrade	65	60	85	55	54	80	58	58	81	2.7	4.3	0.9
307857	Upgrade	65	60	85	49	48	74	51	51	73	1.9	3.4	-0.8
307858	Upgrade	65	60	85	53	52	79	56	57	80	3.6	5.1	0.6
307859	Upgrade	65	60	85	59	57	86	59	59	82	-0.1	1.8	-3.8
307867	Upgrade	65	60	85	52	50	78	51	51	74	-0.8	1.0	-3.5
307868	Upgrade	65	60	85	49	47	73	50	50	72	1.0	2.7	-1.0
307869	Upgrade	65	60	85	50	49	75	51	51	74	0.7	2.4	-1.6
307870	Upgrade	65	60	85	50	49	76	50	50	73	-0.4	1.3	-2.9
307872	Upgrade	65	60	85	51	49	76	51	51	74	0.4	2.1	-2.7
307873	Upgrade	65	60	85	56	56	82	37	37	58	-19.5	-19.4	-23.3
307874	Upgrade	65	60	85	50	49	76	51	51	73	0.8	2.4	-2.4
307875	Upgrade	65	60	85	47	47	70	53	53	76	5.9	5.7	5.9
307876	Upgrade	65	60	85	51	49	76	50	51	73	-0.7	1.1	-3.1
307882	Upgrade	65	60	85	48	46	73	50	50	72	2.0	3.5	-1.2
307889	Upgrade	65	60	85	58	56	85	58	58	83	0.4	2.3	-1.4
307890	Upgrade	65	60	85	48	47	73	49	49	72	0.8	2.4	-1.0
307891	Upgrade	65	60	85	56	55	82	60	60	84	3.3	4.7	2.2
307894	Upgrade	65	60	85	57	56	83	41	41	64	-16.2	-14.9	-18.1
307897	Upgrade	65	60	85	50	49	74	51	51	74	1.3	2.9	-0.6
307898	Upgrade	65	60	85	40	41	64	46	47	70	6.0	6.0	5.9
307899	Upgrade	65	60	85	51	49	77	51	51	74	0.1	1.9	-2.8



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
307901	Upgrade	65	60	85	52	51	79	54	54	79	1.5	3.1	-0.3
307902	Upgrade	65	60	85	58	57	85	59	59	83	0.6	2.5	-2.3
307905	Upgrade	65	60	85	48	47	74	49	50	72	1.2	2.8	-1.8
307909	Upgrade	65	60	85	43	43	66	49	49	72	5.8	5.8	6.2
307910	Upgrade	65	60	85	56	55	82	60	61	84	4.0	5.1	1.9
307911	Upgrade	65	60	85	56	55	83	59	59	83	2.8	4.3	0.3
307914	Upgrade	65	60	85	51	49	75	51	51	74	0.4	2.2	-1.3
307915	Upgrade	65	60	85	53	51	78	53	53	76	-0.4	1.5	-1.7
307919	Upgrade	65	60	85	57	55	83	57	58	81	0.8	2.6	-2.3
307922	Upgrade	65	60	85	46	45	70	49	50	72	3.5	4.8	1.6
307923	Upgrade	65	60	85	52	52	75	57	58	80	5.9	5.9	4.9
307925	Upgrade	65	60	85	45	44	69	49	49	72	4.0	5.1	3.0
307927	Upgrade	65	60	85	49	48	73	51	51	74	2.0	3.3	0.7
307930	Upgrade	65	60	85	48	48	71	53	54	77	5.6	5.6	5.4
307932	Upgrade	65	60	85	45	44	69	50	50	72	4.5	5.5	2.1
307933	Upgrade	65	60	85	56	55	83	57	57	80	0.3	2.1	-3.0
307937	Upgrade	65	60	85	47	46	72	50	50	73	3.0	4.2	1.1
307938	Upgrade	65	60	85	52	50	78	51	51	73	-1.3	0.6	-5.2
307939	Upgrade	65	60	85	50	49	75	51	51	73	0.7	2.2	-1.3
307941	Upgrade	65	60	85	56	55	81	61	61	85	4.9	5.9	3.9
307944	Upgrade	65	60	85	39	40	64	45	46	69	6.2	6.2	5.7
307945	Upgrade	65	60	85	48	47	72	50	50	72	1.9	3.4	-0.2
307947	Upgrade	65	60	85	48	47	74	49	50	72	0.8	2.6	-1.8
307952	Upgrade	65	60	85	52	52	76	57	58	81	5.8	5.9	4.5
307953	Upgrade	65	60	85	49	48	74	50	51	73	1.4	3.0	-1.3
307954	Upgrade	65	60	85	55	55	82	62	62	86	7.3	7.6	4.0
307957	New	60	55	80	-	-	-	63	63	86	-	-	-
307960	Upgrade	65	60	85	34	34	59	40	40	64	5.8	5.7	4.5
307961	Upgrade	65	60	85	50	49	75	51	52	74	1.5	3.1	-1.4
307962	Upgrade	65	60	85	56	54	80	41	41	64	-14.8	-13.4	-15.6
307963	Upgrade	65	60	85	54	54	79	35	36	58	-18.7	-18.5	-20.9
307966	Upgrade	65	60	85	55	55	83	62	63	86	7.0	7.5	3.0
307967	Upgrade	65	60	85	44	44	65	45	45	69	0.8	1.2	3.9
307968	Upgrade	65	60	85	51	50	78	53	53	77	1.5	3.2	-1.7
307971	Upgrade	65	60	85	46	45	70	49	49	71	2.7	4.0	0.5
307976	Upgrade	65	60	85	51	50	76	51	52	75	0.1	1.9	-1.8
307980	Upgrade	65	60	85	49	48	74	50	50	73	0.4	2.1	-1.6
307983	Upgrade	65	60	85	50	49	76	50	51	74	0.3	2.1	-2.1
307984	Upgrade	65	60	85	51	49	76	52	52	75	1.5	3.1	-1.4
307985	Upgrade	65	60	85	46	45	70	49	49	72	2.8	4.1	1.4
307988	Upgrade	65	60	85	49	48	74	50	50	73	1.0	2.6	-0.7
307994	Upgrade	65	60	85	59	58	84	39	39	63	-19.4	-18.1	-20.8
307995	Upgrade	65	60	85	55	54	81	58	58	81	2.4	4.0	0.4
307996	Upgrade	65	60	85	48	46	72	49	50	72	1.9	3.4	-0.6
308001	Upgrade	65	60	85	40	41	64	46	47	70	6.0	6.0	6.0
308002	Upgrade	65	60	85	38	38	62	44	44	68	5.8	5.8	5.6
308004	Upgrade	65	60	85	43	44	67	49	49	73	6.0	5.9	5.7
308005	Upgrade	65	60	85	45	45	68	51	51	74	5.1	5.8	6.0
308006	Upgrade	65	60	85	50	51	75	59	59	82	8.5	8.5	6.8
308007	Upgrade	65	60	85	51	50	76	52	52	74	0.8	2.4	-1.4
308011	Upgrade	65	60	85	45	44	69	48	49	71	3.4	4.6	1.8

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmaz	LAeq,15hr	LAeq,9hr	LAmaz	LAeq,15hr	LAeq,9hr	LAmaz
308012	Upgrade	65	60	85	40	40	63	46	46	70	5.9	5.9	6.4
308014	Upgrade	65	60	85	50	48	75	50	51	72	0.6	2.3	-2.2
308015	Upgrade	65	60	85	52	50	78	50	51	75	-1.6	0.4	-3.4
308016	Upgrade	65	60	85	55	53	81	57	57	81	2.5	4.0	0.0
308018	Upgrade	65	60	85	46	45	71	49	49	71	2.5	3.9	-0.2
308020	Upgrade	65	60	85	48	49	75	58	59	82	10.1	10.1	6.5
308022	Upgrade	65	60	85	53	53	78	59	59	82	6.1	6.2	4.5
308023	Upgrade	65	60	85	59	58	82	41	41	64	-17.7	-16.6	-18.3
308024	Upgrade	65	60	85	54	53	78	42	42	65	-12.4	-11.0	-12.9
308026	Upgrade	65	60	85	44	44	66	48	49	72	4.2	5.2	5.5
308027	Upgrade	65	60	85	48	47	73	49	50	72	1.4	3.0	-0.9
308029	Upgrade	65	60	85	50	49	77	49	50	72	-1.0	0.9	-4.1
308030	Upgrade	65	60	85	40	41	63	46	47	70	6.0	5.9	6.8
308031	Upgrade	65	60	85	52	50	79	52	52	75	0.1	1.9	-4.2
308033	Upgrade	65	60	85	39	39	63	45	45	69	6.1	6.0	5.5
308035	Upgrade	65	60	85	49	48	75	50	50	72	0.6	2.3	-2.2
308036	Upgrade	65	60	85	42	43	66	48	48	72	6.0	5.9	6.1
308037	Upgrade	65	60	85	49	48	75	52	52	75	2.6	4.0	-0.6
308038	Upgrade	65	60	85	53	53	78	59	59	82	5.7	5.8	3.9
308039	Upgrade	65	60	85	49	47	72	51	51	73	2.0	3.6	0.4
308042	Upgrade	65	60	85	52	50	77	52	53	76	0.8	2.6	-1.4
308043	Upgrade	65	60	85	48	46	72	49	49	71	0.9	2.5	-0.6
308045	Upgrade	65	60	85	44	44	66	45	45	68	0.2	0.5	2.0
308046	Upgrade	65	60	85	50	48	75	49	49	72	-0.5	1.4	-3.2
308054	Upgrade	65	60	85	49	48	75	51	51	73	1.7	3.3	-1.4
308055	Upgrade	65	60	85	54	53	81	57	57	81	2.8	4.2	0.3
308057	Upgrade	65	60	85	53	51	79	50	51	75	-2.4	-0.4	-3.6
308061	Upgrade	65	60	85	48	47	72	51	51	73	2.8	4.1	0.3
308062	Upgrade	65	60	85	48	46	73	49	49	71	1.1	2.6	-1.5
308065	Upgrade	65	60	85	46	45	71	48	48	70	1.7	3.3	-0.5
308066	Upgrade	65	60	85	61	61	90	68	68	92	7.4	7.7	2.2
308067	Upgrade	65	60	85	49	47	74	51	51	73	1.9	3.5	-1.0
308070	Upgrade	65	60	85	50	49	77	50	50	73	-0.1	1.7	-4.3
308074	Upgrade	65	60	85	46	45	70	49	49	71	2.8	4.1	0.7
308076	Upgrade	65	60	85	46	45	70	49	49	71	2.6	4.0	0.6
308077	Upgrade	65	60	85	53	53	78	59	59	82	5.8	5.9	4.0
308081	Upgrade	65	60	85	45	44	66	43	43	66	-2.0	-1.4	0.8
308082	Upgrade	65	60	85	51	50	77	51	51	74	-0.3	1.6	-3.6
308083	Upgrade	65	60	85	47	46	72	49	49	72	1.8	3.3	-0.2
308084	Upgrade	65	60	85	47	46	73	50	50	73	3.2	4.6	-0.1
308085	Upgrade	65	60	85	54	54	80	60	60	83	5.8	5.9	3.9
308086	Upgrade	65	60	85	54	54	79	59	60	83	5.8	5.9	4.2
308089	Upgrade	65	60	85	46	45	71	48	48	71	2.2	3.7	-0.3
308091	Upgrade	65	60	85	54	54	78	60	60	83	5.7	5.6	4.5
308095	Upgrade	65	60	85	51	50	77	54	54	77	2.9	4.5	-0.2
308096	Upgrade	65	60	85	49	47	76	48	49	71	-0.4	1.5	-4.3
308097	Upgrade	65	60	85	48	47	73	50	50	73	1.6	3.2	0.0
308098	Upgrade	65	60	85	50	48	76	50	50	73	0.3	2.1	-3.0
308099	Upgrade	65	60	85	50	48	74	49	50	72	-0.8	1.1	-2.4
308100	Upgrade	65	60	85	48	47	74	49	49	72	0.6	2.3	-2.8
308104	Upgrade	65	60	85	44	44	65	45	45	69	1.4	1.7	4.6



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
308105	Upgrade	65	60	85	52	50	78	50	50	73	-2.2	-0.2	-5.1
308106	Upgrade	65	60	85	46	45	70	49	49	71	3.0	4.3	1.0
308110	Upgrade	65	60	85	51	49	78	51	51	74	0.2	2.0	-4.2
308111	Upgrade	65	60	85	44	43	69	49	49	71	4.6	5.6	2.3
308113	Upgrade	65	60	85	48	46	73	49	49	72	1.4	3.0	-1.6
308115	Upgrade	65	60	85	50	49	77	50	50	72	-0.4	1.4	-5.2
308118	Upgrade	65	60	85	37	37	62	43	43	67	6.0	5.9	4.5
308119	Upgrade	65	60	85	55	55	80	60	61	84	5.7	5.8	4.0
308123	Upgrade	65	60	85	55	54	78	40	41	64	-14.2	-13.5	-14.2
308124	Upgrade	65	60	85	52	53	78	60	60	83	7.4	7.4	5.4
308126	Upgrade	65	60	85	54	54	79	59	60	83	5.7	5.8	3.6
308127	Upgrade	65	60	85	59	57	86	41	41	64	-17.4	-15.6	-21.5
308128	Upgrade	65	60	85	50	49	74	55	56	79	5.4	6.4	4.9
308129	Upgrade	65	60	85	51	52	76	57	57	80	5.6	5.7	3.9
308130	Upgrade	65	60	85	52	52	77	58	58	81	5.1	6.0	3.8
308131	Upgrade	65	60	85	54	55	79	60	60	83	5.7	5.7	4.4
308133	Upgrade	65	60	85	36	36	61	42	42	66	6.2	6.0	4.4
308137	Upgrade	65	60	85	48	46	73	49	50	72	1.7	3.3	-1.3
308140	Upgrade	65	60	85	53	54	78	59	59	82	5.6	5.7	4.3
308143	Upgrade	65	60	85	49	48	74	50	50	73	0.9	2.6	-1.6
308144	Upgrade	65	60	85	52	50	78	49	50	73	-2.2	-0.2	-5.2
308145	Upgrade	65	60	85	46	46	70	50	50	71	3.5	4.7	1.3
308148	Upgrade	65	60	85	46	45	70	50	50	73	3.6	4.7	3.6
308150	Upgrade	65	60	85	44	43	70	50	50	72	5.7	6.4	2.6
308151	Upgrade	65	60	85	33	33	57	39	39	63	5.8	5.7	5.2
308153	Upgrade	65	60	85	54	54	79	59	60	83	5.7	5.8	3.7
308155	Upgrade	65	60	85	49	47	74	49	49	72	0.5	2.2	-2.0
308157	Upgrade	65	60	85	58	57	83	41	41	64	-17.5	-16.1	-18.9
308160	Upgrade	65	60	85	35	36	60	42	42	66	6.4	6.3	5.3
308161	Upgrade	65	60	85	52	51	77	57	57	81	5.5	6.3	3.5
308162	Upgrade	65	60	85	47	46	73	49	49	71	1.9	3.4	-1.6
308163	Upgrade	65	60	85	47	46	71	50	51	72	3.4	4.7	1.3
308164	Upgrade	65	60	85	35	35	59	42	42	66	7.6	7.5	7.2
308165	Upgrade	65	60	85	50	48	77	51	51	74	1.3	3.0	-2.7
308166	Upgrade	65	60	85	57	56	84	41	41	65	-16.1	-14.5	-18.8
308168	Upgrade	65	60	85	39	39	61	44	45	68	5.8	5.7	6.3
308171	Upgrade	65	60	85	51	49	77	40	40	64	-10.6	-9.0	-13.8
308175	Upgrade	65	60	85	47	46	72	50	50	72	2.3	3.8	-0.5
308177	Upgrade	65	60	85	0	0	0	40	40	63	39.6	39.9	63.4
308178	Upgrade	65	60	85	45	45	68	51	51	74	5.5	6.1	5.9
308179	Upgrade	65	60	85	50	49	76	54	54	77	3.9	5.1	1.2
308181	Upgrade	65	60	85	47	46	74	49	49	71	1.7	3.3	-2.1
308182	Upgrade	65	60	85	52	52	77	58	58	81	5.6	5.7	4.0
308184	Upgrade	65	60	85	47	46	71	50	50	72	3.0	4.3	1.1
308186	Upgrade	65	60	85	46	47	68	53	53	76	6.6	6.6	7.9
308189	Upgrade	65	60	85	57	56	83	42	42	65	-15.0	-13.2	-17.9
308190	Upgrade	65	60	85	55	55	80	60	61	83	5.6	5.7	3.7
308191	Upgrade	65	60	85	51	50	77	50	50	72	-1.6	0.4	-5.0
308192	Upgrade	65	60	85	46	45	69	50	50	72	3.5	4.7	2.5
308193	Upgrade	65	60	85	47	46	71	50	50	72	2.7	4.0	0.5
308194	Upgrade	65	60	85	52	51	78	44	44	67	-7.9	-6.5	-10.1

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
308197	Upgrade	65	60	85	46	45	70	49	49	72	3.4	4.7	2.6
308198	Upgrade	65	60	85	45	44	69	48	48	70	2.8	4.1	0.6
308200	Upgrade	65	60	85	47	46	71	51	51	72	3.2	4.5	0.7
308203	Upgrade	65	60	85	48	47	75	52	52	75	3.5	4.9	0.5
308205	Upgrade	65	60	85	48	47	72	50	50	72	2.4	3.9	-0.2
308210	Upgrade	65	60	85	50	49	77	50	50	72	-0.5	1.4	-5.1
308212	Upgrade	65	60	85	49	48	71	47	47	71	-1.9	-1.0	-0.6
308213	Upgrade	65	60	85	48	46	71	50	50	72	2.5	3.9	0.2
308218	Upgrade	65	60	85	48	47	73	52	52	75	3.9	5.2	1.9
308221	Upgrade	65	60	85	53	53	76	59	59	80	5.7	6.3	4.4
308223	Upgrade	65	60	85	49	48	74	50	50	73	0.9	2.6	-1.5
308226	Upgrade	65	60	85	50	48	74	51	51	73	1.3	2.9	-0.2
308228	Upgrade	65	60	85	50	49	76	54	55	78	4.0	5.2	1.3
308231	Upgrade	65	60	85	61	60	88	40	41	64	-21.0	-19.5	-24.2
308234	Upgrade	65	60	85	57	55	84	40	41	64	-16.5	-14.9	-19.7
308235	Upgrade	65	60	85	45	44	69	48	48	70	2.8	4.2	1.5
308236	Upgrade	65	60	85	45	44	69	47	48	69	2.3	3.7	-0.3
308237	Upgrade	65	60	85	59	58	86	43	43	66	-16.4	-14.5	-19.6
308240	Upgrade	65	60	85	48	47	72	50	51	72	2.3	3.7	0.4
308243	Upgrade	65	60	85	48	47	72	50	51	73	2.4	3.8	0.7
308244	Upgrade	65	60	85	46	45	71	48	48	70	1.6	3.1	-1.3
308245	Upgrade	65	60	85	48	47	72	51	51	73	2.5	3.9	0.7
308247	Upgrade	65	60	85	47	46	71	48	49	70	1.5	3.0	-0.9
308248	Upgrade	65	60	85	49	47	74	50	50	73	1.5	3.2	-0.9
308249	Upgrade	65	60	85	53	51	79	40	41	64	-12.3	-10.7	-14.7
308252	Upgrade	65	60	85	55	55	80	61	61	84	5.6	5.6	3.7
308255	Upgrade	65	60	85	48	47	73	51	51	73	2.7	4.2	0.0
308256	Upgrade	65	60	85	50	48	77	50	50	72	0.1	1.9	-4.4
308263	Upgrade	65	60	85	57	56	83	41	42	65	-15.8	-14.3	-18.7
308267	Upgrade	65	60	85	50	49	76	54	54	77	3.9	5.2	1.4
308268	Upgrade	65	60	85	48	47	73	50	50	72	1.6	3.2	-0.5
308269	Upgrade	65	60	85	48	47	73	49	49	71	0.8	2.5	-1.7
308270	Upgrade	65	60	85	48	47	73	50	51	73	2.3	3.8	-0.3
308275	Upgrade	65	60	85	56	56	81	63	64	87	7.8	7.7	5.8
308278	Upgrade	65	60	85	48	47	73	50	50	72	1.5	3.1	-0.4
308279	Upgrade	65	60	85	48	46	73	49	50	71	1.9	3.4	-1.6
308284	Upgrade	65	60	85	52	51	78	50	50	73	-2.2	-0.2	-5.1
308289	Upgrade	65	60	85	55	55	81	63	63	87	8.0	8.0	5.3
308290	Upgrade	65	60	85	43	43	67	47	47	70	3.6	4.8	2.9
308291	Upgrade	65	60	85	42	41	67	46	47	68	4.3	5.3	0.9
308292	Upgrade	65	60	85	45	44	68	49	49	72	3.9	5.0	3.8
308296	Upgrade	65	60	85	45	44	69	49	49	72	3.3	4.5	3.0
308299	Upgrade	65	60	85	55	54	80	40	41	64	-14.6	-12.9	-16.0
308301	Upgrade	65	60	85	49	47	74	48	49	71	-0.4	1.4	-3.1
308302	Upgrade	65	60	85	48	46	73	48	49	71	0.6	2.3	-2.7
308303	Upgrade	65	60	85	63	61	89	42	42	65	-21.0	-19.0	-23.8
308305	New	60	55	80	-	-	-	58	58	79	-	-	-
308306	Upgrade	65	60	85	47	45	71	47	48	70	0.6	2.3	-1.2
308310	Upgrade	65	60	85	46	45	70	49	49	70	3.1	4.3	0.6
308312	Upgrade	65	60	85	49	48	75	51	51	73	1.3	2.8	-2.2
308316	Upgrade	65	60	85	48	47	72	53	53	76	4.1	5.4	3.6



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
308318	Upgrade	65	60	85	55	56	80	61	61	84	5.6	5.5	3.9
308319	Upgrade	65	60	85	53	52	80	41	42	65	-11.9	-9.9	-15.0
308321	Upgrade	65	60	85	47	46	71	49	49	70	1.6	3.1	-1.0
308323	Upgrade	65	60	85	46	45	70	49	49	70	3.2	4.5	0.8
308325	Upgrade	65	60	85	65	63	92	41	42	64	-23.5	-21.7	-27.2
308329	Upgrade	65	60	85	50	48	75	51	51	74	1.3	2.9	-1.9
308332	Upgrade	65	60	85	47	46	72	51	51	73	3.9	5.1	1.0
308333	Upgrade	65	60	85	49	48	73	51	51	74	2.2	3.7	0.5
308334	Upgrade	65	60	85	55	54	80	42	42	65	-13.4	-11.9	-14.8
308335	Upgrade	65	60	85	48	46	74	48	48	70	0.0	1.7	-3.5
308338	Upgrade	65	60	85	45	44	70	48	48	70	3.3	4.5	-0.4
308340	Upgrade	65	60	85	48	47	74	52	52	75	3.7	5.0	1.4
308341	Upgrade	65	60	85	46	44	71	48	48	71	2.6	4.0	-0.4
308343	Upgrade	65	60	85	47	46	72	51	51	74	4.0	5.2	1.8
308347	Upgrade	65	60	85	49	48	74	50	50	72	1.0	2.7	-1.9
308351	Upgrade	65	60	85	46	45	70	49	49	71	3.0	4.3	1.3
308353	Upgrade	65	60	85	53	52	79	40	41	64	-13.0	-11.4	-15.0
308354	Upgrade	65	60	85	46	45	71	48	48	70	1.4	3.0	-0.9
308355	Upgrade	65	60	85	60	58	86	42	43	66	-17.3	-15.9	-20.1
308359	Upgrade	65	60	85	48	46	72	50	50	73	2.4	3.9	0.4
308360	Upgrade	65	60	85	63	63	87	36	37	59	-26.3	-26.0	-28.9
308364	Upgrade	65	60	85	45	44	68	48	48	70	3.2	4.4	1.8
308365	Upgrade	65	60	85	47	46	73	48	49	70	1.2	2.8	-3.0
308366	Upgrade	65	60	85	45	44	71	48	48	70	3.4	4.6	-0.2
308369	Upgrade	65	60	85	49	48	74	53	54	77	4.3	5.5	2.9
308370	Upgrade	65	60	85	45	44	65	50	51	73	5.6	6.3	8.2
308372	Upgrade	65	60	85	46	46	68	53	53	76	6.8	7.1	8.5
308373	Upgrade	65	60	85	50	49	77	49	49	71	-1.5	0.5	-5.5
308374	Upgrade	65	60	85	59	58	85	43	43	66	-16.3	-14.5	-18.8
308375	Upgrade	65	60	85	47	46	72	49	50	71	2.4	3.8	-0.6
308376	Upgrade	65	60	85	44	43	68	48	49	70	4.3	5.4	2.4
308377	Upgrade	65	60	85	45	44	66	50	50	73	5.5	6.0	6.7
308378	Upgrade	65	60	85	63	63	88	37	37	60	-26.5	-26.2	-28.4
308383	Upgrade	65	60	85	53	51	79	43	43	67	-9.9	-8.2	-12.7
308384	New	60	55	80	-	-	-	65	65	89	-	-	-
308386	Upgrade	65	60	85	42	42	64	40	40	64	-2.2	-1.8	0.0
308389	Upgrade	65	60	85	47	46	71	49	49	71	2.0	3.5	-0.3
308390	Upgrade	65	60	85	46	45	71	49	50	71	3.7	5.0	0.3
308391	Upgrade	65	60	85	56	57	82	62	62	85	5.5	5.5	3.5
308392	New	60	55	80	-	-	-	52	52	74	-	-	-
308393	Upgrade	65	60	85	44	43	66	48	49	70	4.3	5.3	3.2
308394	Upgrade	65	60	85	48	47	73	51	51	74	3.0	4.3	0.6
308395	Upgrade	65	60	85	47	45	71	49	49	71	2.6	4.1	-0.1
308398	Upgrade	65	60	85	44	44	65	50	50	72	5.5	6.2	6.7
308401	Upgrade	65	60	85	48	47	73	51	51	73	2.3	3.8	0.1
308403	Upgrade	65	60	85	45	45	68	52	52	75	6.6	6.5	7.1
308404	Upgrade	65	60	85	47	46	72	49	50	71	1.9	3.4	-0.4
308408	Upgrade	65	60	85	47	46	72	49	49	71	1.6	3.2	-0.9
308410	Upgrade	65	60	85	57	57	81	37	37	59	-20.2	-19.5	-22.1
308411	Upgrade	65	60	85	49	47	73	51	52	74	2.9	4.3	1.2
308413	Upgrade	65	60	85	44	43	67	48	49	70	4.6	5.7	2.8

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
308414	Upgrade	65	60	85	49	47	74	48	49	71	-0.4	1.5	-3.1
308415	Upgrade	65	60	85	54	53	75	60	60	83	6.6	7.0	8.0
308416	Upgrade	65	60	85	58	57	84	41	42	64	-17.1	-15.7	-19.8
308417	Upgrade	65	60	85	44	45	67	51	51	73	6.2	6.0	6.2
308418	Upgrade	65	60	85	44	43	67	48	48	70	4.1	5.2	3.2
308422	Upgrade	65	60	85	44	43	68	48	49	70	4.2	5.3	1.9
308424	Upgrade	65	60	85	55	53	81	45	45	69	-9.8	-8.2	-12.5
308425	Upgrade	65	60	85	42	41	65	46	46	68	3.9	4.9	3.7
308426	Upgrade	65	60	85	46	45	70	49	49	70	2.7	4.1	-0.1
308430	Upgrade	65	60	85	63	63	87	38	38	61	-25.6	-25.1	-26.9
308432	Upgrade	65	60	85	49	48	73	52	52	75	2.9	4.3	1.3
308433	Upgrade	65	60	85	45	44	68	48	49	70	3.3	4.5	1.3
308437	Upgrade	65	60	85	45	44	68	48	49	69	3.7	4.9	1.7
308438	Upgrade	65	60	85	46	45	72	49	49	71	3.2	4.5	-0.9
308439	Upgrade	65	60	85	49	48	73	53	54	76	4.1	5.4	3.4
308441	Upgrade	65	60	85	72	71	100	39	40	63	-32.9	-30.9	-36.8
308442	Upgrade	65	60	85	60	59	86	44	44	67	-16.5	-14.8	-19.1
308443	Upgrade	65	60	85	48	47	72	52	53	75	4.3	5.4	3.1
308444	Upgrade	65	60	85	47	45	71	49	49	71	2.4	3.8	0.2
308446	Upgrade	65	60	85	46	45	71	48	49	71	2.3	3.8	-0.5
308448	Upgrade	65	60	85	46	45	70	49	50	71	3.6	4.8	1.3
308449	Upgrade	65	60	85	57	56	81	37	37	59	-20.1	-19.6	-21.6
308452	Upgrade	65	60	85	45	44	69	48	49	70	2.8	4.2	1.1
308455	Upgrade	65	60	85	72	70	99	40	40	63	-31.6	-29.8	-35.3
308460	Upgrade	65	60	85	44	43	68	47	47	70	3.3	4.5	2.4
308461	Upgrade	65	60	85	43	42	68	47	48	69	4.2	5.3	1.6
308462	Upgrade	65	60	85	45	44	68	49	49	70	3.4	4.7	1.7
308463	Upgrade	65	60	85	47	47	69	53	53	77	6.6	6.7	8.4
308465	Upgrade	65	60	85	64	63	87	37	37	60	-26.4	-25.7	-27.4
308466	Upgrade	65	60	85	46	45	71	49	50	72	3.8	5.1	1.3
308467	Upgrade	65	60	85	60	58	86	46	46	69	-13.9	-12.0	-17.0
308472	Upgrade	65	60	85	64	63	90	42	42	66	-22.4	-20.8	-24.5
308474	Upgrade	65	60	85	45	45	69	50	51	74	5.6	5.5	5.2
308476	Upgrade	65	60	85	46	44	69	48	49	70	2.7	4.2	0.9
308477	Upgrade	65	60	85	47	45	74	47	48	70	0.6	2.4	-3.5
308481	Upgrade	65	60	85	43	42	67	46	46	68	3.3	4.6	1.1
308483	Upgrade	65	60	85	60	59	85	43	43	67	-17.1	-15.6	-18.5
308484	Upgrade	65	60	85	63	61	89	44	44	67	-19.2	-17.2	-21.9
308485	Upgrade	65	60	85	52	51	76	55	56	79	3.7	4.9	2.3
308488	Upgrade	65	60	85	51	50	75	54	54	77	3.6	4.8	2.0
308489	Upgrade	65	60	85	44	43	69	47	47	69	2.4	3.8	-0.1
308490	New	60	55	80	-	-	-	56	56	80	-	-	-
308491	Upgrade	65	60	85	57	57	81	36	36	59	-20.7	-20.2	-22.4
308492	Upgrade	65	60	85	49	49	73	54	54	77	4.5	5.6	4.7
308493	Upgrade	65	60	85	71	69	98	41	42	65	-29.5	-27.8	-32.8
308494	Upgrade	65	60	85	46	46	72	51	51	74	4.7	5.8	1.9
308496	Upgrade	65	60	85	44	43	65	49	50	73	5.9	6.3	8.0
308497	Upgrade	65	60	85	59	58	85	38	38	61	-21.4	-20.0	-24.1
308498	Upgrade	65	60	85	46	45	71	49	49	72	3.2	4.5	0.2
308501	Upgrade	65	60	85	50	49	75	54	55	77	4.3	5.4	2.6
308502	Upgrade	65	60	85	46	45	70	48	49	70	2.5	4.0	-0.1



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmaz	LAeq,15hr	LAeq,9hr	LAmaz	LAeq,15hr	LAeq,9hr	LAmaz
308504	Upgrade	65	60	85	45	44	69	48	49	71	3.0	4.4	1.3
308508	Upgrade	65	60	85	45	44	71	47	47	69	1.9	3.5	-2.2
308509	Upgrade	65	60	85	47	46	72	49	49	71	1.3	3.0	-1.0
308510	Upgrade	65	60	85	42	41	63	47	48	70	5.7	6.4	6.6
308511	New	60	55	80	-	-	-	59	59	79	-	-	-
308513	Upgrade	65	60	85	46	45	71	49	49	72	3.4	4.7	0.4
308515	Upgrade	65	60	85	64	63	90	41	41	64	-23.4	-21.9	-26.1
308516	Upgrade	65	60	85	42	42	66	47	48	69	5.2	6.0	2.7
308520	Upgrade	65	60	85	42	42	65	47	47	68	4.3	5.4	3.1
308521	Upgrade	65	60	85	43	42	68	47	47	69	3.9	5.0	1.0
308525	Upgrade	65	60	85	56	54	82	42	42	65	-13.9	-12.1	-17.2
308526	Upgrade	65	60	85	46	46	69	52	52	75	5.7	5.5	5.8
308527	Upgrade	65	60	85	51	51	77	48	48	71	-3.6	-2.4	-5.6
308528	Upgrade	65	60	85	42	42	65	47	48	69	5.1	6.0	4.5
308530	Upgrade	65	60	85	47	45	73	48	48	70	1.1	2.8	-3.1
308531	Upgrade	65	60	85	43	42	68	46	47	68	3.6	4.7	0.3
308537	Upgrade	65	60	85	47	46	72	52	52	75	4.7	5.8	2.8
308538	Upgrade	65	60	85	56	55	80	38	38	61	-17.8	-16.7	-19.0
308540	Upgrade	65	60	85	49	48	71	55	55	78	6.2	6.7	6.9
308543	Upgrade	65	60	85	67	66	93	38	38	61	-29.2	-27.9	-32.2
308545	Upgrade	65	60	85	49	49	73	59	59	82	10.3	10.3	9.1
308546	Upgrade	65	60	85	43	42	67	47	47	69	3.2	4.5	1.8
308548	Upgrade	65	60	85	45	44	71	49	49	71	3.3	4.6	-0.2
308549	Upgrade	65	60	85	45	44	68	48	48	70	2.9	4.3	1.1
308550	Upgrade	65	60	85	63	62	87	43	44	67	-19.9	-18.7	-20.0
308554	Upgrade	65	60	85	56	55	81	37	37	59	-19.3	-18.0	-21.5
308556	Upgrade	65	60	85	69	68	96	42	43	66	-26.7	-25.3	-30.2
308558	Upgrade	65	60	85	43	42	68	47	47	68	3.5	4.8	0.7
308559	Upgrade	65	60	85	42	41	67	46	47	68	4.4	5.5	1.4
308561	Upgrade	65	60	85	49	48	75	49	49	71	-0.5	1.3	-3.1
308564	Upgrade	65	60	85	66	64	93	41	42	65	-24.7	-22.7	-28.2
308566	Upgrade	65	60	85	45	44	69	47	47	69	2.1	3.6	-0.7
308567	Upgrade	65	60	85	46	45	71	48	49	70	2.3	3.9	-0.8
308568	Upgrade	65	60	85	43	42	67	47	47	68	3.4	4.8	1.8
308569	Upgrade	65	60	85	47	46	73	49	50	72	2.2	3.6	-1.8
308572	Upgrade	65	60	85	44	44	65	45	45	69	1.2	1.4	3.9
308574	Upgrade	65	60	85	66	64	92	38	38	61	-27.9	-26.2	-31.5
308578	Upgrade	65	60	85	45	43	70	47	47	69	2.1	3.6	-1.1
308584	Upgrade	65	60	85	47	46	74	48	48	70	1.2	2.9	-3.5
308585	Upgrade	65	60	85	49	49	71	46	46	70	-3.2	-3.0	-1.7
308586	Upgrade	65	60	85	47	46	72	50	50	73	2.5	4.1	0.6
308587	Upgrade	65	60	85	45	43	68	47	48	69	2.7	4.1	1.1
308589	Upgrade	65	60	85	59	57	85	42	42	65	-17.1	-15.5	-19.6
308590	Upgrade	65	60	85	46	44	71	48	48	71	2.6	4.1	0.1
308593	Upgrade	65	60	85	53	52	78	37	37	59	-16.4	-15.0	-19.6
308595	Upgrade	65	60	85	53	52	79	45	45	68	-8.2	-6.7	-10.8
308597	Upgrade	65	60	85	44	44	66	45	46	69	1.6	1.9	3.0
308600	Upgrade	65	60	85	46	44	70	47	47	69	1.1	2.9	-1.5
308601	Upgrade	65	60	85	54	53	81	42	42	65	-12.6	-11.0	-15.7
308603	Upgrade	65	60	85	56	55	80	38	38	61	-17.7	-16.5	-19.6
308605	Upgrade	65	60	85	45	44	71	48	48	70	2.1	3.6	-1.3

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
308606	Upgrade	65	60	85	64	63	91	38	38	61	-26.5	-24.7	-30.8
308607	Upgrade	65	60	85	45	44	70	47	47	69	1.7	3.3	-0.5
308608	Upgrade	65	60	85	50	49	74	43	43	67	-7.1	-5.8	-6.9
308609	Upgrade	65	60	85	47	46	74	49	50	71	2.3	3.8	-2.2
308611	Upgrade	65	60	85	57	56	83	46	47	70	-10.8	-9.1	-13.7
308612	Upgrade	65	60	85	45	44	68	48	48	70	3.1	4.4	1.4
308613	Upgrade	65	60	85	46	45	73	48	48	70	1.9	3.4	-3.0
308619	Upgrade	65	60	85	45	44	68	48	48	70	3.5	4.8	2.1
308620	Upgrade	65	60	85	47	46	71	51	51	74	4.0	5.2	3.1
308622	Upgrade	65	60	85	44	43	64	45	46	69	1.7	2.3	5.1
308624	Upgrade	65	60	85	44	44	69	48	48	69	3.8	4.9	0.2
308625	Upgrade	65	60	85	68	66	94	45	45	68	-22.9	-21.2	-25.8
308628	Upgrade	65	60	85	53	52	77	36	36	59	-16.6	-15.4	-17.9
308629	Upgrade	65	60	85	65	63	92	47	47	70	-18.2	-16.3	-21.5
308632	Upgrade	65	60	85	51	50	73	56	56	79	5.4	6.1	6.3
308635	Upgrade	65	60	85	46	44	71	47	47	69	1.3	2.9	-1.1
308638	Upgrade	65	60	85	55	54	80	36	36	59	-18.8	-17.5	-21.7
308639	Upgrade	65	60	85	63	61	90	46	47	70	-16.3	-14.3	-20.2
308640	New	60	55	80	-	-	-	59	60	83	-	-	-
308643	Upgrade	65	60	85	49	49	71	46	46	70	-3.5	-3.2	-1.7
308644	Upgrade	65	60	85	45	43	70	47	48	70	2.9	4.4	0.1
308647	Upgrade	65	60	85	44	44	67	48	49	72	3.9	4.1	4.8
308650	Upgrade	65	60	85	45	45	65	47	47	71	2.1	2.2	5.5
308654	Upgrade	65	60	85	55	54	81	44	45	68	-10.4	-9.1	-12.8
308658	Upgrade	65	60	85	45	45	66	47	47	71	1.6	1.8	4.8
308659	Upgrade	65	60	85	63	62	90	38	38	61	-25.3	-23.6	-29.2
308663	Upgrade	65	60	85	44	43	67	48	48	70	3.6	5.0	3.1
308664	Upgrade	65	60	85	48	47	73	51	52	74	3.8	5.0	0.7
308665	Upgrade	65	60	85	47	46	71	48	49	71	1.2	2.8	-0.3
308668	Upgrade	65	60	85	54	53	80	45	46	69	-9.2	-7.6	-11.7
308669	Upgrade	65	60	85	45	45	66	47	47	70	1.7	1.8	4.4
308670	Upgrade	65	60	85	45	44	70	49	49	71	4.1	5.2	0.9
308671	Upgrade	65	60	85	56	55	81	37	37	59	-19.1	-17.8	-21.6
308672	Upgrade	65	60	85	59	59	86	68	68	91	9.0	9.0	5.1
308676	Upgrade	65	60	85	71	70	98	41	41	64	-29.9	-28.2	-33.6
308678	Upgrade	65	60	85	45	46	68	49	49	73	3.3	3.5	5.0
308679	Upgrade	65	60	85	56	56	84	65	65	91	9.0	9.1	7.5
308680	Upgrade	65	60	85	48	46	73	49	49	71	0.8	2.5	-2.2
308684	Upgrade	65	60	85	54	53	79	37	37	59	-17.6	-16.1	-19.6
308685	Upgrade	65	60	85	44	44	67	50	50	73	6.1	6.1	6.3
308688	Upgrade	65	60	85	53	52	76	36	36	59	-16.9	-16.0	-17.5
308689	Upgrade	65	60	85	56	55	82	42	42	65	-14.1	-12.4	-16.7
308691	Upgrade	65	60	85	46	44	71	48	49	70	2.6	4.1	-1.0
308696	Upgrade	65	60	85	44	43	67	47	47	69	2.8	4.1	1.3
308699	Upgrade	65	60	85	48	47	72	51	51	74	3.1	4.6	1.6
308701	Upgrade	65	60	85	60	59	86	36	36	59	-24.0	-22.3	-27.5
308702	Upgrade	65	60	85	44	44	66	50	50	73	5.5	6.2	7.5
308703	Upgrade	65	60	85	44	43	68	48	48	69	3.6	4.7	1.4
308704	Upgrade	65	60	85	44	43	68	47	47	69	3.1	4.5	0.8
308705	Upgrade	65	60	85	44	44	68	48	49	70	4.1	5.2	2.6
308706	Upgrade	65	60	85	47	46	71	52	52	74	4.5	5.6	3.5



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
308711	Upgrade	65	60	85	45	44	69	47	48	69	2.8	4.2	-0.1
308714	Upgrade	65	60	85	73	71	100	45	46	69	-27.3	-25.6	-30.5
308715	Upgrade	65	60	85	45	44	68	49	49	71	4.2	5.3	3.1
308720	Upgrade	65	60	85	55	54	81	37	37	59	-18.3	-16.6	-21.5
308723	Upgrade	65	60	85	53	53	76	59	60	82	6.3	6.8	6.0
308724	Upgrade	65	60	85	43	43	65	49	50	73	6.6	6.7	8.1
308725	Upgrade	65	60	85	69	67	96	46	46	70	-23.1	-21.3	-26.5
308730	Upgrade	65	60	85	56	55	82	46	46	69	-10.2	-8.5	-13.2
308732	Upgrade	65	60	85	48	48	70	55	55	78	6.4	6.9	8.0
308733	Upgrade	65	60	85	45	44	69	48	48	69	2.6	4.1	-0.2
308736	Upgrade	65	60	85	65	64	93	47	48	71	-18.2	-16.4	-21.8
308740	Upgrade	65	60	85	46	45	69	50	50	72	3.9	5.0	2.8
308743	Upgrade	65	60	85	44	44	67	50	50	73	6.1	6.0	6.3
308744	Upgrade	65	60	85	43	42	67	47	47	69	3.7	4.9	2.0
308746	Upgrade	65	60	85	44	44	68	50	50	73	5.9	5.8	5.8
308747	Upgrade	65	60	85	62	60	88	67	66	88	4.9	5.7	-0.3
308750	Upgrade	65	60	85	53	52	77	37	37	60	-15.5	-14.6	-17.0
308752	Upgrade	65	60	85	59	58	85	37	37	60	-21.9	-20.2	-25.3
308753	Upgrade	65	60	85	42	42	66	47	47	71	5.5	5.5	4.9
308754	Upgrade	65	60	85	69	67	96	41	41	65	-27.5	-25.6	-31.3
308755	Upgrade	65	60	85	54	54	78	38	38	61	-16.4	-15.6	-17.4
308756	Upgrade	65	60	85	45	44	69	48	48	70	3.4	4.7	0.7
308757	Upgrade	65	60	85	41	40	67	44	44	66	2.9	4.3	-0.8
308762	Upgrade	65	60	85	42	41	66	44	44	66	1.5	3.2	-0.1
308765	Upgrade	65	60	85	47	46	70	51	51	74	3.5	4.9	3.1
308768	Upgrade	65	60	85	55	55	79	62	63	86	7.4	7.6	6.8
308779	Upgrade	65	60	85	52	51	76	37	37	58	-15.2	-13.7	-18.4
308781	Upgrade	65	60	85	43	42	67	45	46	67	2.6	3.9	0.0
308784	Upgrade	65	60	85	45	44	70	47	47	70	2.2	3.7	-0.1
308785	Upgrade	65	60	85	58	56	84	37	37	59	-21.0	-19.1	-24.8
308786	Upgrade	65	60	85	42	41	67	45	46	67	3.4	4.8	0.2
308791	Upgrade	65	60	85	44	43	68	47	47	70	3.1	4.5	1.6
308792	Upgrade	65	60	85	41	40	64	46	46	68	5.3	6.1	4.2
308795	Upgrade	65	60	85	45	44	67	49	49	72	4.0	4.9	4.9
308798	Upgrade	65	60	85	43	42	68	45	45	67	1.9	3.4	-1.2
308802	Upgrade	65	60	85	55	53	81	37	37	59	-18.4	-16.6	-22.2
308808	Upgrade	65	60	85	51	50	77	46	46	69	-5.7	-4.1	-8.7
308809	Upgrade	65	60	85	42	43	67	48	48	72	5.7	5.5	4.8
308811	Upgrade	65	60	85	50	49	72	55	55	78	5.2	6.0	6.4
308813	Upgrade	65	60	85	63	61	89	39	39	62	-23.9	-22.1	-26.8
308814	Upgrade	65	60	85	71	69	98	41	41	64	-29.9	-28.1	-33.9
308815	Upgrade	65	60	85	55	54	80	36	36	59	-19.0	-17.3	-21.7
308821	Upgrade	65	60	85	46	44	70	49	49	71	3.0	4.4	1.2
308825	Upgrade	65	60	85	40	39	65	44	44	66	3.8	4.9	1.6
308827	Upgrade	65	60	85	44	43	69	45	45	68	1.1	2.8	-1.0
308828	Upgrade	65	60	85	53	51	78	46	46	69	-6.8	-5.4	-8.6
308832	Upgrade	65	60	85	42	41	66	44	45	67	2.3	3.7	1.1
308835	Upgrade	65	60	85	44	43	69	46	47	69	2.0	3.7	-0.2
308837	Upgrade	65	60	85	42	41	66	46	46	67	4.0	5.2	1.5
308838	Upgrade	65	60	85	41	41	64	46	46	68	5.2	5.9	3.9
308841	Upgrade	65	60	85	41	41	62	47	48	71	6.4	6.7	8.8

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
308842	Upgrade	65	60	85	44	43	67	48	48	70	4.1	5.3	3.1
308844	Upgrade	65	60	85	73	71	100	43	43	66	-29.9	-28.0	-33.9
308849	Upgrade	65	60	85	49	49	71	55	55	78	5.6	6.3	7.1
308853	Upgrade	65	60	85	53	52	78	48	48	72	-4.5	-3.2	-6.1
308854	Upgrade	65	60	85	42	42	66	47	47	68	4.1	5.2	2.4
308856	New	60	55	80	-	-	-	52	53	76	-	-	-
308857	Upgrade	65	60	85	61	59	86	37	37	60	-23.6	-22.1	-26.4
308858	Upgrade	65	60	85	56	55	82	36	36	58	-20.7	-18.9	-24.6
308859	Upgrade	65	60	85	43	43	68	49	49	73	5.9	5.8	5.0
308860	Upgrade	65	60	85	42	43	65	48	49	72	6.2	6.0	6.3
308866	Upgrade	65	60	85	45	45	68	50	50	73	4.6	5.6	5.2
308867	Upgrade	65	60	85	43	42	66	46	46	69	3.2	4.6	2.7
308871	Upgrade	65	60	85	53	52	77	37	37	59	-16.4	-15.1	-18.7
308872	Upgrade	65	60	85	52	51	77	37	38	60	-15.0	-13.7	-16.6
308873	Upgrade	65	60	85	54	53	79	38	38	59	-16.1	-14.7	-20.6
308874	Upgrade	65	60	85	44	44	65	50	51	73	6.2	6.6	7.8
308877	Upgrade	65	60	85	41	41	65	47	47	70	5.8	5.7	5.2
308879	Upgrade	65	60	85	45	45	67	52	52	75	6.3	6.5	8.0
308881	Upgrade	65	60	85	45	45	66	46	46	69	1.4	1.7	3.1
308883	Upgrade	65	60	85	42	42	65	47	48	71	5.9	5.8	5.6
308885	Upgrade	65	60	85	51	50	76	45	45	69	-6.1	-4.7	-7.7
308889	Upgrade	65	60	85	55	53	79	38	38	60	-17.1	-15.6	-19.3
308892	Upgrade	65	60	85	42	42	64	47	47	69	4.9	5.9	4.1
308894	Upgrade	65	60	85	56	54	81	38	38	60	-17.8	-16.1	-21.5
308895	Upgrade	65	60	85	66	64	92	38	38	61	-27.4	-25.6	-31.5
308896	Upgrade	65	60	85	45	44	68	49	49	73	4.0	5.2	4.3
308899	Upgrade	65	60	85	54	53	79	46	46	70	-7.9	-6.6	-9.7
308902	Upgrade	65	60	85	42	41	66	46	46	69	3.9	5.1	2.8
308903	Upgrade	65	60	85	43	43	65	49	50	73	6.3	6.5	8.2
308904	Upgrade	65	60	85	45	44	68	48	48	71	3.4	4.7	3.3
308906	Upgrade	65	60	85	55	55	80	36	37	58	-19.1	-18.0	-21.8
308911	Upgrade	65	60	85	62	60	89	38	38	60	-24.1	-22.2	-28.8
308912	Upgrade	65	60	85	65	63	92	39	39	61	-26.0	-24.2	-30.5
308913	New	60	55	80	-	-	-	56	56	80	-	-	-
308917	Upgrade	65	60	85	67	65	94	41	41	64	-26.0	-24.3	-29.9
308919	Upgrade	65	60	85	55	54	81	36	36	58	-19.3	-17.8	-23.0
308921	Upgrade	65	60	85	68	67	95	41	41	64	-26.8	-25.1	-30.7
308924	Upgrade	65	60	85	57	56	83	38	38	60	-19.8	-18.2	-23.1
308925	Upgrade	65	60	85	54	52	78	36	37	58	-17.3	-15.6	-20.2
308927	Upgrade	65	60	85	45	45	67	47	47	69	2.0	2.3	2.5
308928	Upgrade	65	60	85	43	43	63	49	49	72	6.4	6.8	8.5
308929	Upgrade	65	60	85	67	66	94	44	44	67	-23.7	-22.2	-26.8
308933	Upgrade	65	60	85	59	58	87	39	39	61	-20.7	-18.7	-25.8
308935	Upgrade	65	60	85	44	43	68	47	48	69	3.2	4.4	1.3
308936	Upgrade	65	60	85	46	46	69	49	50	73	3.0	3.2	4.5
308940	Upgrade	65	60	85	44	44	67	50	50	73	5.2	6.2	5.8
308942	Upgrade	65	60	85	44	44	68	49	49	72	4.6	5.6	4.1
308943	Upgrade	65	60	85	61	59	88	43	43	67	-17.8	-16.1	-21.2
308944	Upgrade	65	60	85	47	47	67	49	49	72	2.1	2.2	5.1
308945	Upgrade	65	60	85	58	56	83	38	38	60	-19.7	-18.0	-23.3
308947	Upgrade	65	60	85	53	52	79	37	37	60	-16.0	-14.6	-19.2



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
308948	Upgrade	65	60	85	54	53	79	36	36	58	-18.2	-16.5	-21.0
308949	Upgrade	65	60	85	44	44	65	50	50	74	6.1	6.4	8.4
308950	Upgrade	65	60	85	66	65	91	46	46	70	-19.7	-18.6	-21.1
308951	Upgrade	65	60	85	43	43	64	49	50	72	5.9	6.4	8.2
308962	Upgrade	65	60	85	54	53	79	37	38	60	-17.2	-15.8	-19.0
308963	Upgrade	65	60	85	58	57	85	38	38	61	-20.3	-18.5	-24.5
308965	Upgrade	65	60	85	42	42	65	49	49	73	7.0	7.2	8.0
308980	Upgrade	65	60	85	43	42	64	48	48	69	5.3	6.1	4.8
308982	Upgrade	65	60	85	59	58	85	42	43	66	-16.9	-15.4	-19.2
308983	Upgrade	65	60	85	45	44	68	51	51	74	5.8	6.7	5.8
308988	Upgrade	65	60	85	55	55	80	61	62	85	6.4	6.4	4.9
308989	Upgrade	65	60	85	53	52	78	37	37	59	-16.3	-14.9	-18.1
308990	Upgrade	65	60	85	43	43	63	49	49	71	6.3	6.8	8.1
308991	Upgrade	65	60	85	54	53	80	37	37	59	-17.1	-15.7	-20.8
308995	Upgrade	65	60	85	44	44	67	47	47	71	3.0	3.2	3.8
309002	Upgrade	65	60	85	42	41	63	47	47	70	5.1	5.8	7.0
309008	Upgrade	65	60	85	48	49	73	57	57	80	8.1	8.1	7.0
309009	Upgrade	65	60	85	44	43	66	49	50	73	5.5	6.4	6.2
309010	Upgrade	65	60	85	43	43	65	50	50	73	6.7	6.8	7.8
309011	New	60	55	80	-	-	-	53	53	77	-	-	-
309014	Upgrade	65	60	85	43	43	64	50	50	73	6.2	6.7	8.7
309018	Upgrade	65	60	85	40	39	61	45	45	68	5.3	6.0	6.9
309019	Upgrade	65	60	85	54	53	79	37	38	60	-16.2	-15.2	-19.1
309021	Upgrade	65	60	85	55	53	79	39	39	61	-16.0	-14.6	-18.1
309022	Upgrade	65	60	85	60	59	86	43	43	66	-17.1	-15.4	-19.9
309027	Upgrade	65	60	85	45	45	69	37	37	58	-8.8	-8.4	-11.4
309028	Upgrade	65	60	85	52	51	76	48	49	72	-3.5	-2.3	-4.5
309029	Upgrade	65	60	85	55	54	80	39	39	62	-16.6	-15.1	-18.8
309034	Upgrade	65	60	85	60	59	86	42	42	65	-18.3	-16.8	-21.2
309036	Upgrade	65	60	85	42	42	62	48	48	70	6.0	6.6	7.4
309037	Upgrade	65	60	85	62	62	88	45	45	68	-17.6	-17.2	-19.6
309039	Upgrade	65	60	85	53	52	76	39	39	61	-14.5	-13.4	-15.0
309042	Upgrade	65	60	85	51	50	74	37	38	60	-13.5	-12.6	-14.0
309043	Upgrade	65	60	85	60	59	86	42	42	65	-18.4	-17.2	-20.7
309044	Upgrade	65	60	85	56	55	82	48	48	72	-7.9	-6.4	-10.1
309047	Upgrade	65	60	85	64	64	88	47	48	71	-16.6	-16.1	-17.2
309049	Upgrade	65	60	85	52	51	76	38	38	61	-14.0	-12.6	-15.5
309050	Upgrade	65	60	85	58	57	84	43	43	66	-15.7	-14.0	-17.8
309051	Upgrade	65	60	85	46	46	69	49	50	73	3.1	3.2	4.1
309056	Upgrade	65	60	85	44	45	67	48	48	72	3.2	3.4	4.3
309057	Upgrade	65	60	85	51	50	75	46	46	70	-5.2	-4.1	-5.6
309058	Upgrade	65	60	85	55	54	81	39	39	61	-16.6	-15.0	-19.8
309060	Upgrade	65	60	85	53	53	77	60	60	83	6.5	6.6	5.3
309062	Upgrade	65	60	85	55	55	80	47	47	70	-8.5	-8.1	-10.1
309064	Upgrade	65	60	85	44	44	67	50	50	73	5.6	6.4	6.1
309065	New	60	55	80	-	-	-	55	55	77	-	-	-
309069	Upgrade	65	60	85	56	54	80	38	38	60	-17.7	-16.1	-19.9
309072	Upgrade	65	60	85	55	54	79	40	41	64	-14.3	-13.1	-15.3
309073	Upgrade	65	60	85	54	53	78	38	39	61	-15.8	-14.2	-17.4
309074	Upgrade	65	60	85	57	55	81	43	43	66	-13.6	-12.0	-15.0
309079	Upgrade	65	60	85	53	52	79	41	42	64	-12.0	-10.7	-14.4

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax
309080	Upgrade	65	60	85	60	61	88	70	70	93	9.4	9.5	5.8
309082	Upgrade	65	60	85	61	60	84	47	47	70	-14.0	-13.3	-14.1
309083	Upgrade	65	60	85	57	57	81	48	48	71	-9.6	-8.5	-9.5
309084	Upgrade	65	60	85	43	44	68	54	54	77	10.2	10.3	9.4
309086	Upgrade	65	60	85	54	52	79	40	40	63	-13.7	-12.2	-15.9
309087	Upgrade	65	60	85	58	56	82	45	45	68	-12.7	-11.0	-14.0
309091	Upgrade	65	60	85	53	52	78	48	48	72	-4.6	-3.4	-6.1
309092	Upgrade	65	60	85	47	47	71	56	56	79	8.9	9.0	8.3
309093	Upgrade	65	60	85	54	53	80	41	42	65	-12.5	-10.9	-15.8
309094	Upgrade	65	60	85	41	41	63	48	48	71	6.9	7.1	8.1
309096	Upgrade	65	60	85	54	52	80	42	42	65	-11.8	-10.2	-15.2
309100	Upgrade	65	60	85	62	62	87	49	49	72	-12.9	-12.8	-15.2
309101	Upgrade	65	60	85	50	50	74	43	43	66	-7.2	-6.3	-8.4
309105	Upgrade	65	60	85	61	61	88	70	70	93	9.0	9.2	5.4
309106	Upgrade	65	60	85	53	52	79	42	42	65	-11.3	-9.8	-14.3
309107	Upgrade	65	60	85	55	54	78	48	49	72	-6.4	-5.2	-6.4
309108	Upgrade	65	60	85	54	53	79	48	48	71	-6.0	-4.7	-7.3
309113	Upgrade	65	60	85	39	39	62	50	50	73	10.9	11.0	11.4
309116	Upgrade	65	60	85	52	51	76	46	46	69	-6.1	-4.7	-7.2
309118	Upgrade	65	60	85	47	47	67	49	49	72	2.1	2.2	5.2
309119	Upgrade	65	60	85	51	50	74	42	43	66	-8.2	-7.3	-8.2
309120	Upgrade	65	60	85	55	55	79	47	48	70	-8.0	-7.0	-8.4
309121	Upgrade	65	60	85	46	46	68	48	48	71	1.9	2.2	3.3
309124	Upgrade	65	60	85	53	52	77	46	47	70	-7.0	-5.7	-7.3
309125	Upgrade	65	60	85	44	44	68	48	48	71	3.8	3.9	3.6
309126	New	60	55	80	-	-	-	56	56	79	-	-	-
309129	New	60	55	80	-	-	-	65	64	85	-	-	-
309130	Upgrade	65	60	85	45	45	69	48	48	71	2.7	2.8	2.4
309132	Upgrade	65	60	85	52	51	76	42	43	66	-9.3	-8.2	-10.4
309133	New	60	55	80	-	-	-	61	61	84	-	-	-
309134	Upgrade	65	60	85	40	41	65	51	51	75	10.8	10.9	9.9
309137	Upgrade	65	60	85	55	54	81	47	48	70	-7.7	-6.4	-10.4
309144	Upgrade	65	60	85	57	57	81	49	49	72	-8.1	-7.7	-8.9
309146	New	60	55	80	-	-	-	64	64	86	-	-	-
309148	New	60	55	80	-	-	-	44	45	68	-	-	-
309150	Upgrade	65	60	85	54	53	78	47	48	71	-6.5	-5.2	-7.0
309151	Upgrade	65	60	85	53	52	79	45	45	69	-8.1	-6.7	-10.4
309152	Upgrade	65	60	85	46	46	68	49	49	72	2.8	2.9	4.6
309155	Upgrade	65	60	85	52	52	78	44	45	68	-8.0	-7.0	-10.0
309161	New	60	55	80	-	-	-	60	60	83	-	-	-
309169	Upgrade	65	60	85	53	52	77	49	50	73	-3.9	-2.6	-4.5
309170	Upgrade	65	60	85	54	53	78	49	49	72	-5.2	-4.0	-5.3
309173	Upgrade	65	60	85	53	52	78	51	51	74	-2.5	-1.0	-3.4
309174	Upgrade	65	60	85	53	51	79	48	48	72	-4.9	-3.3	-7.8
309175	New	60	55	80	-	-	-	58	58	81	-	-	-
309176	Upgrade	65	60	85	54	53	78	50	50	73	-3.9	-2.5	-4.9
309185	Upgrade	65	60	85	53	52	77	49	50	73	-3.6	-2.5	-4.0
309186	Upgrade	65	60	85	49	49	73	51	51	75	1.8	2.5	2.0
309187	New	60	55	80	-	-	-	47	47	70	-	-	-
309190	Upgrade	65	60	85	53	52	77	51	51	75	-1.8	-0.7	-1.6
309194	Upgrade	65	60	85	47	47	68	49	49	72	1.9	2.4	4.2



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
309202	Upgrade	65	60	85	49	49	71	51	51	74	1.7	2.2	3.3
309203	Upgrade	65	60	85	58	58	82	50	50	73	-8.2	-7.8	-8.9
309205	New	60	55	80	-	-	-	58	58	81	-	-	-
309207	Upgrade	65	60	85	52	51	76	49	50	73	-2.8	-1.4	-3.5
309211	Upgrade	65	60	85	65	65	92	49	49	73	-16.0	-16.0	-19.4
309212	Upgrade	65	60	85	43	44	67	46	47	70	3.0	3.2	3.0
309213	New	60	55	80	-	-	-	48	48	72	-	-	-
309217	Upgrade	65	60	85	48	48	69	51	51	74	3.0	3.1	5.3
309219	Upgrade	65	60	85	39	39	64	51	51	74	12.3	12.3	9.8
309222	New	60	55	80	-	-	-	52	52	75	-	-	-
309225	Upgrade	65	60	85	50	49	73	49	49	72	-1.0	0.2	-1.0
309228	Upgrade	65	60	85	51	50	74	49	50	73	-1.1	0.0	-1.4
309230	Upgrade	65	60	85	51	50	75	49	49	73	-2.2	-0.8	-2.4
309233	New	60	55	80	-	-	-	48	49	72	-	-	-
309234	Upgrade	65	60	85	45	45	68	48	48	71	2.4	2.6	2.4
309236	Upgrade	65	60	85	49	48	73	49	49	72	-0.5	0.6	-0.8
309237	Upgrade	65	60	85	49	49	74	50	51	74	1.1	2.1	0.5
309238	New	60	55	80	-	-	-	48	48	71	-	-	-
309243	Upgrade	65	60	85	39	39	63	46	46	70	6.9	6.8	7.1
309245	Upgrade	65	60	85	49	48	71	49	49	72	0.1	0.9	0.7
309246	New	60	55	80	-	-	-	48	48	72	-	-	-
309247	New	60	55	80	-	-	-	43	43	64	-	-	-
309250	Upgrade	65	60	85	59	59	84	49	49	72	-10.4	-10.3	-11.9
309255	New	60	55	80	-	-	-	48	48	71	-	-	-
309256	Upgrade	65	60	85	55	54	77	49	49	73	-6.0	-5.2	-4.9
309259	New	60	55	80	-	-	-	48	48	72	-	-	-
309262	Upgrade	65	60	85	50	49	74	50	51	74	0.9	2.0	0.4
309263	Upgrade	65	60	85	46	46	69	49	49	73	2.8	3.0	4.0
309265	New	60	55	80	-	-	-	49	49	72	-	-	-
309267	Upgrade	65	60	85	56	56	80	51	52	75	-4.4	-4.0	-5.6
309271	Upgrade	65	60	85	66	67	94	51	51	74	-15.6	-15.6	-19.9
309273	New	60	55	80	-	-	-	48	49	72	-	-	-
309275	Upgrade	65	60	85	55	54	79	51	51	74	-4.4	-3.5	-5.0
309276	Upgrade	65	60	85	51	51	73	51	52	75	0.3	1.0	1.4
309277	New	60	55	80	-	-	-	48	48	71	-	-	-
309279	Upgrade	65	60	85	37	38	61	43	44	67	6.1	6.0	5.9
309281	New	60	55	80	-	-	-	44	45	68	-	-	-
309283	New	60	55	80	-	-	-	46	47	70	-	-	-
309290	Upgrade	65	60	85	55	55	79	52	53	76	-2.7	-2.1	-2.3
309292	Upgrade	65	60	85	51	50	75	49	50	72	-1.7	-0.7	-2.7
309294	Upgrade	65	60	85	43	44	66	47	47	70	3.3	3.4	4.7
309296	Upgrade	65	60	85	60	60	85	52	53	76	-7.9	-7.7	-9.1
309298	Upgrade	65	60	85	52	51	74	52	53	76	0.5	1.3	1.5
309299	Upgrade	65	60	85	48	48	69	49	50	72	1.5	2.0	3.0
309300	New	60	55	80	-	-	-	47	47	70	-	-	-
309301	Upgrade	65	60	85	51	50	75	50	50	74	-0.8	0.2	-0.9
309303	Upgrade	65	60	85	49	49	72	49	49	72	-0.1	0.8	0.0
309304	Upgrade	65	60	85	50	50	77	50	50	74	-0.1	0.2	-3.4
309305	Upgrade	65	60	85	47	47	69	50	50	73	2.4	2.6	3.7
309308	New	60	55	80	-	-	-	48	49	72	-	-	-
309315	Upgrade	65	60	85	50	51	75	52	53	76	1.9	1.9	1.1

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
309316	Upgrade	65	60	85	50	49	73	51	51	75	1.2	2.0	1.2
309320	New	60	55	80	-	-	-	47	48	71	-	-	-
309322	Upgrade	65	60	85	54	54	79	51	52	75	-2.4	-2.3	-4.1
309324	Upgrade	65	60	85	50	49	72	48	48	71	-2.0	-1.3	-1.4
309325	Upgrade	65	60	85	38	38	62	44	44	67	5.9	5.8	5.8
309326	New	60	55	80	-	-	-	47	47	71	-	-	-
309329	New	60	55	80	-	-	-	48	48	72	-	-	-
309336	New	60	55	80	-	-	-	48	48	71	-	-	-
309337	Upgrade	65	60	85	49	48	71	51	51	74	2.2	2.5	3.0
309338	Upgrade	65	60	85	46	46	68	49	49	72	3.1	3.2	3.4
309340	Upgrade	65	60	85	17	17	42	40	40	63	22.9	23.0	21.4
309341	New	60	55	80	-	-	-	49	49	73	-	-	-
309344	Upgrade	65	60	85	53	53	77	53	53	76	-0.7	-0.3	-0.8
309345	New	60	55	80	-	-	-	45	46	69	-	-	-
309349	Upgrade	65	60	85	47	46	69	47	48	71	0.7	1.5	1.8
309350	Upgrade	65	60	85	50	50	74	52	52	75	2.3	2.4	1.0
309351	Upgrade	65	60	85	48	47	72	49	49	72	0.8	1.6	0.1
309354	Upgrade	65	60	85	53	53	77	52	52	76	-0.8	-0.4	-1.4
309357	Upgrade	65	60	85	59	60	85	53	53	76	-6.8	-6.7	-8.5
309359	New	60	55	80	-	-	-	47	48	71	-	-	-
309360	New	60	55	80	-	-	-	48	48	71	-	-	-
309362	Upgrade	65	60	85	47	47	68	50	50	73	3.3	3.4	5.0
309364	Upgrade	65	60	85	45	45	68	49	49	72	3.9	3.9	4.7
309365	Upgrade	65	60	85	54	54	79	53	53	76	-1.4	-1.5	-2.6
309366	New	60	55	80	-	-	-	50	50	73	-	-	-
309367	Upgrade	65	60	85	50	50	75	51	51	75	1.0	1.5	-0.1
309369	Upgrade	65	60	85	46	45	69	46	47	70	0.5	1.3	0.4
309371	Upgrade	65	60	85	47	46	72	48	48	72	1.1	1.9	0.0
309372	New	60	55	80	-	-	-	51	52	75	-	-	-
309378	New	60	55	80	-	-	-	46	47	70	-	-	-
309379	Upgrade	65	60	85	46	45	67	47	47	70	1.1	1.9	2.8
309380	New	60	55	80	-	-	-	49	49	73	-	-	-
309381	Upgrade	65	60	85	50	50	74	51	51	74	0.6	0.9	0.6
309382	New	60	55	80	-	-	-	51	51	75	-	-	-
309385	Upgrade	65	60	85	56	57	82	53	53	77	-3.4	-3.4	-5.0
309386	Upgrade	65	60	85	46	45	68	47	47	70	1.2	1.7	2.3
309388	Upgrade	65	60	85	47	46	72	49	49	72	2.0	3.0	0.9
309391	Upgrade	65	60	85	46	46	67	49	49	72	3.0	3.2	5.2
309395	Upgrade	65	60	85	47	47	70	47	47	70	0.3	0.6	-0.1
309396	Upgrade	65	60	85	53	53	78	51	51	75	-2.3	-1.9	-3.3
309398	New	60	55	80	-	-	-	52	52	75	-	-	-
309399	Upgrade	65	60	85	49	48	72	49	49	72	-0.1	0.8	-0.4
309400	New	60	55	80	-	-	-	50	50	74	-	-	-
309403	New	60	55	80	-	-	-	50	51	74	-	-	-
309406	Upgrade	65	60	85	48	48	72	48	48	72	0.1	0.1	-0.7
309407	Upgrade	65	60	85	47	46	71	48	49	72	1.2	2.5	0.7
309408	Upgrade	65	60	85	48	47	70	49	49	72	1.2	1.8	1.9
309412	New	60	55	80	-	-	-	52	52	75	-	-	-
309414	Upgrade	65	60	85	45	45	68	49	49	72	3.7	3.7	4.5
309415	New	60	55	80	-	-	-	52	52	75	-	-	-
309416	Upgrade	65	60	85	53	53	79	52	52	75	-0.8	-0.8	-3.4



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
309418	Upgrade	65	60	85	48	48	72	55	55	78	6.9	7.0	5.7
309420	New	60	55	80	-	-	-	54	54	78	-	-	-
309422	Upgrade	65	60	85	48	47	71	47	47	70	-1.1	0.0	-0.4
309423	Upgrade	65	60	85	48	48	70	49	49	72	0.9	1.5	1.9
309426	Upgrade	65	60	85	45	46	69	53	53	75	7.4	7.5	6.0
309428	New	60	55	80	-	-	-	53	53	77	-	-	-
309431	New	60	55	80	-	-	-	52	52	76	-	-	-
309433	New	60	55	80	-	-	-	55	55	79	-	-	-
309434	New	60	55	80	-	-	-	52	53	76	-	-	-
309435	New	60	55	80	-	-	-	45	44	64	-	-	-
309437	Upgrade	65	60	85	46	46	68	49	49	72	3.3	3.4	4.8
309438	New	60	55	80	-	-	-	51	51	74	-	-	-
309442	Upgrade	65	60	85	44	44	69	52	52	74	7.9	8.0	5.8
309443	Upgrade	65	60	85	56	56	81	49	49	72	-7.1	-7.1	-8.9
309444	New	60	55	80	-	-	-	53	53	76	-	-	-
309445	Upgrade	65	60	85	48	48	73	48	48	72	0.2	0.3	-1.0
309446	Upgrade	65	60	85	48	47	72	47	48	71	-0.7	0.7	-1.4
309450	Upgrade	65	60	85	47	47	70	49	49	72	1.9	2.1	2.8
309453	Upgrade	65	60	85	49	48	72	47	48	70	-1.6	-0.7	-2.4
309454	New	60	55	80	-	-	-	53	53	76	-	-	-
309455	Upgrade	65	60	85	48	47	70	52	52	75	3.9	4.9	5.1
309457	Upgrade	65	60	85	46	46	68	50	50	73	3.7	3.8	4.8
309459	Upgrade	65	60	85	52	51	75	51	51	75	-0.7	0.1	-0.3
309460	New	60	55	80	-	-	-	42	42	61	-	-	-
309461	Upgrade	65	60	85	49	48	72	49	49	72	-0.2	0.8	0.3
309462	Upgrade	65	60	85	48	48	72	49	49	72	0.9	1.0	0.5
309466	Upgrade	65	60	85	47	47	70	49	49	72	1.7	2.5	2.8
309467	Upgrade	65	60	85	49	49	71	56	56	79	7.0	7.2	8.7
309471	Upgrade	65	60	85	54	54	80	51	51	74	-3.1	-3.2	-5.6
309472	Upgrade	65	60	85	47	47	71	47	48	71	-0.2	1.0	-0.1
309475	Upgrade	65	60	85	51	52	76	51	51	74	-0.5	-0.6	-2.0
309477	Upgrade	65	60	85	48	47	72	49	49	72	0.6	2.0	0.5
309482	Upgrade	65	60	85	45	45	67	52	52	75	6.9	7.4	8.0
309485	Upgrade	65	60	85	47	47	70	54	54	77	6.4	7.0	7.1
309489	Upgrade	65	60	85	42	42	63	49	49	72	6.6	7.0	8.7
309490	Upgrade	65	60	85	49	49	74	51	51	74	2.4	2.5	0.9
309494	Upgrade	65	60	85	25	25	49	40	40	63	14.6	14.5	13.3
309495	Upgrade	65	60	85	17	17	42	40	40	63	22.5	22.6	20.9
309498	Upgrade	65	60	85	51	51	75	49	49	72	-2.2	-1.9	-2.9
309502	Upgrade	65	60	85	48	48	73	51	51	75	3.1	3.3	1.5
309505	Upgrade	65	60	85	39	39	64	50	50	73	10.9	10.9	8.8
309509	Upgrade	65	60	85	48	48	71	54	54	78	5.6	6.3	6.8
309510	Upgrade	65	60	85	40	40	62	47	47	69	6.1	6.7	6.6
309512	Upgrade	65	60	85	50	50	75	53	53	76	2.3	2.6	0.8
309513	Upgrade	65	60	85	48	48	70	54	54	77	5.5	6.3	7.2
309515	Upgrade	65	60	85	42	42	66	51	51	74	9.3	9.4	8.1
309516	Upgrade	65	60	85	57	57	83	49	49	73	-7.9	-8.0	-9.9
309518	Upgrade	65	60	85	48	47	70	54	54	77	5.9	6.6	7.3
309519	Upgrade	65	60	85	50	50	74	52	52	75	1.7	2.1	1.4
309520	Upgrade	65	60	85	50	50	73	54	54	78	3.8	4.7	4.9
309521	Upgrade	65	60	85	46	46	69	49	49	72	2.4	2.6	3.3

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
309522	Upgrade	65	60	85	39	40	65	48	49	72	9.0	8.9	7.0
309523	Upgrade	65	60	85	49	48	70	54	54	77	4.8	5.5	6.9
309525	Upgrade	65	60	85	49	48	70	54	54	78	5.1	5.8	7.2
309530	Upgrade	65	60	85	51	51	74	52	53	76	1.7	2.1	1.6
309531	Upgrade	65	60	85	49	48	72	53	53	77	4.5	5.5	5.1
309534	New	60	55	80	-	-	-	43	42	61	-	-	-
309535	Upgrade	65	60	85	48	47	70	53	53	77	5.1	6.0	6.8
309537	Upgrade	65	60	85	47	47	70	51	51	74	3.2	3.4	3.6
309538	Upgrade	65	60	85	29	30	55	41	41	64	11.4	11.4	8.9
309539	Upgrade	65	60	85	52	52	75	53	53	76	0.5	1.3	1.5
309543	Upgrade	65	60	85	58	59	84	50	51	74	-7.9	-7.9	-9.9
309544	New	60	55	80	-	-	-	49	49	71	-	-	-
309546	Upgrade	65	60	85	52	52	76	50	50	74	-1.6	-1.5	-1.9
309548	New	60	55	80	-	-	-	52	52	76	-	-	-
309551	Upgrade	65	60	85	38	38	60	44	44	67	6.2	6.4	7.1
309556	Upgrade	65	60	85	48	48	71	52	52	76	4.3	4.4	4.7
309567	New	60	55	80	-	-	-	51	51	74	-	-	-
309568	Upgrade	65	60	85	40	41	65	49	49	72	8.5	8.6	7.3
309569	Upgrade	65	60	85	47	47	71	50	50	73	3.0	3.1	2.2
309570	Upgrade	65	60	85	57	57	82	51	51	74	-5.8	-5.8	-7.6
309571	Upgrade	65	60	85	51	51	73	53	53	76	1.7	2.1	3.1
309574	New	60	55	80	-	-	-	54	54	78	-	-	-
309579	Upgrade	65	60	85	55	55	80	51	52	75	-3.4	-3.3	-4.5
309589	Upgrade	65	60	85	59	59	85	50	51	74	-8.6	-8.6	-10.4
309590	Upgrade	65	60	85	51	51	74	53	54	77	2.1	2.4	2.8
309591	Upgrade	65	60	85	41	42	64	48	48	70	6.3	6.4	6.3
309592	Upgrade	65	60	85	48	48	72	52	52	75	3.5	3.6	3.7
309595	Upgrade	65	60	85	51	51	73	53	53	77	2.2	2.5	4.2
309596	Upgrade	65	60	85	53	53	77	53	54	77	0.6	0.9	-0.2
309601	Upgrade	65	60	85	55	55	80	51	51	75	-4.0	-3.9	-5.2
309617	Upgrade	65	60	85	51	51	74	54	54	77	3.0	3.2	3.1
309618	Upgrade	65	60	85	44	44	67	50	51	73	6.2	6.3	5.7
309620	Upgrade	65	60	85	61	62	87	54	55	78	-6.8	-7.0	-8.8
309621	Upgrade	65	60	85	57	57	82	53	53	77	-3.9	-3.8	-5.1
309622	Upgrade	65	60	85	47	47	72	50	51	74	3.6	3.7	2.8
309623	Upgrade	65	60	85	48	49	72	52	52	75	3.5	3.5	3.1
309627	Upgrade	65	60	85	43	43	64	50	50	73	6.6	7.0	9.4
309628	New	60	55	80	-	-	-	54	54	78	-	-	-
309629	Upgrade	65	60	85	47	47	68	54	54	77	7.1	7.2	9.3
309631	Upgrade	65	60	85	48	48	70	55	55	78	6.4	6.9	8.0
309632	Upgrade	65	60	85	22	23	46	37	37	59	14.5	14.4	13.1
309633	Upgrade	65	60	85	51	52	76	55	56	79	4.0	4.2	3.5
309636	Upgrade	65	60	85	52	52	76	54	55	78	2.2	2.3	1.4
309638	Upgrade	65	60	85	57	57	83	55	56	79	-1.6	-1.7	-3.5
309642	Upgrade	65	60	85	39	39	61	45	45	69	6.5	6.8	7.8
309643	Upgrade	65	60	85	0	0	0	41	42	65	41.4	41.8	65.0
309647	Upgrade	65	60	85	39	39	61	46	46	69	6.9	7.1	8.2
309648	Upgrade	65	60	85	43	42	64	49	50	72	6.7	7.2	8.8
309652	Upgrade	65	60	85	39	39	62	45	46	67	6.5	7.0	4.9
309654	Upgrade	65	60	85	49	49	72	56	57	80	7.5	7.9	8.5
309655	Upgrade	65	60	85	0	0	0	42	42	65	41.6	42.0	65.2



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
309656	Upgrade	65	60	85	49	49	73	53	53	77	3.8	3.9	3.2
309661	Upgrade	65	60	85	47	48	72	52	53	76	5.0	5.0	4.4
309664	Upgrade	65	60	85	50	51	75	55	55	78	4.3	4.3	3.3
309667	Upgrade	65	60	85	50	50	74	55	56	79	5.3	5.2	4.7
309668	Upgrade	65	60	85	52	52	76	56	56	79	3.8	3.9	3.1
309669	Upgrade	65	60	85	48	48	71	51	52	75	3.6	3.6	4.5
309673	Upgrade	65	60	85	36	36	58	43	44	66	7.4	7.6	8.1
309674	Upgrade	65	60	85	45	45	67	53	53	76	7.4	7.5	8.7
309675	Upgrade	65	60	85	56	56	81	55	55	79	-0.6	-0.5	-2.0
309677	Upgrade	65	60	85	49	50	72	53	53	76	3.5	3.4	4.5
309689	Upgrade	65	60	85	43	43	65	50	50	73	6.8	7.2	7.9
309690	Upgrade	65	60	85	44	44	66	51	52	75	7.0	7.2	8.6
309693	Upgrade	65	60	85	43	43	64	50	50	73	6.7	7.0	9.5
309694	Upgrade	65	60	85	0	0	0	46	47	70	46.3	46.5	69.6
309699	Upgrade	65	60	85	51	51	75	58	58	81	6.6	6.7	6.3
309701	Upgrade	65	60	85	0	0	0	48	48	71	47.5	47.8	71.1
309702	Upgrade	65	60	85	40	39	62	46	46	69	6.2	6.8	7.2
309704	Upgrade	65	60	85	51	51	76	57	57	81	5.6	5.9	4.6
309707	Upgrade	65	60	85	54	54	79	57	57	81	2.7	2.8	1.3
309713	Upgrade	65	60	85	39	39	62	45	46	68	6.1	6.6	6.2
309715	Upgrade	65	60	85	49	49	72	52	53	76	3.3	3.4	3.5
309719	Upgrade	65	60	85	39	39	62	45	46	69	6.2	6.7	6.9
309720	Upgrade	65	60	85	59	59	84	57	57	81	-1.9	-1.9	-3.6
309722	Upgrade	65	60	85	36	37	60	44	44	68	7.9	7.8	8.3
309723	New	60	55	80	-	-	-	51	52	75	-	-	-
309731	Upgrade	65	60	85	52	52	77	57	57	81	5.3	5.3	3.9
309734	Upgrade	65	60	85	50	50	72	56	56	78	6.0	6.2	6.0
309737	Upgrade	65	60	85	51	51	73	57	57	78	5.7	6.1	4.2
309738	Upgrade	65	60	85	51	50	73	57	57	77	5.7	6.1	4.7
309742	Upgrade	65	60	85	51	50	73	56	56	78	5.5	6.0	4.6
309744	Upgrade	65	60	85	50	50	72	55	56	77	5.7	5.9	4.8
309747	Upgrade	65	60	85	50	51	75	59	60	83	9.0	9.0	8.2
309754	Upgrade	65	60	85	0	0	0	50	50	72	49.9	50.0	71.9
309755	Upgrade	65	60	85	52	51	73	57	57	78	5.3	5.8	4.4
309756	Upgrade	65	60	85	52	53	77	57	57	81	4.9	4.9	4.0
309757	Upgrade	65	60	85	40	41	64	49	49	70	8.1	8.2	5.9
309759	Upgrade	65	60	85	50	50	71	56	56	77	5.7	6.0	6.4
309760	Upgrade	65	60	85	57	58	83	57	58	81	-0.2	-0.1	-1.7
309765	Upgrade	65	60	85	41	41	65	49	49	71	8.2	8.2	5.9
309780	Upgrade	65	60	85	0	0	0	49	50	73	49.1	49.5	72.9
309787	Upgrade	65	60	85	0	0	0	48	48	72	47.9	48.2	71.6
309793	Upgrade	65	60	85	36	36	58	43	43	65	6.6	6.7	6.7
309796	Upgrade	65	60	85	60	61	86	60	60	83	-0.7	-0.8	-2.9
309799	New	60	55	80	-	-	-	55	55	77	-	-	-
309801	Upgrade	65	60	85	37	37	58	43	44	64	6.6	6.6	6.7
309812	Upgrade	65	60	85	49	48	70	54	54	75	5.8	5.9	5.3
309813	New	60	55	80	-	-	-	69	69	93	-	-	-
309817	Upgrade	65	60	85	0	0	0	48	48	71	47.7	48.0	71.4
309819	New	60	55	80	-	-	-	54	54	75	-	-	-
309821	Upgrade	65	60	85	37	38	59	44	44	65	6.7	6.7	6.6
309826	Upgrade	65	60	85	42	42	66	51	51	73	8.4	8.5	6.3

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
309829	Upgrade	65	60	85	52	53	77	58	58	81	5.3	5.2	4.1
309834	Upgrade	65	60	85	53	54	77	58	58	81	4.6	4.5	4.0
309835	Upgrade	65	60	85	36	37	58	43	43	64	6.3	6.4	5.6
309839	Upgrade	65	60	85	56	57	81	61	61	85	4.7	4.6	3.5
309843	Upgrade	65	60	85	40	40	61	47	47	70	6.7	7.0	9.1
309844	Upgrade	65	60	85	0	0	0	44	45	68	44.1	44.5	67.8
309849	Upgrade	65	60	85	0	0	0	51	51	73	50.9	50.9	72.6
309852	Upgrade	65	60	85	36	37	59	43	44	65	6.9	7.0	6.7
309859	Upgrade	65	60	85	0	0	0	47	47	71	46.7	47.1	70.5
309866	Upgrade	65	60	85	0	0	0	38	38	59	37.7	38.1	58.9
309872	Upgrade	65	60	85	55	55	80	60	60	84	4.9	4.8	4.0
309875	Upgrade	65	60	85	0	0	0	49	49	70	48.9	48.7	69.5
309879	Upgrade	65	60	85	49	48	70	54	54	76	5.7	6.2	5.3
309882	Upgrade	65	60	85	47	46	69	53	53	74	5.5	6.1	4.6
309883	Upgrade	65	60	85	46	45	69	52	52	74	6.3	6.8	5.2
309887	Upgrade	65	60	85	28	29	51	36	36	60	7.8	7.8	9.1
309899	Upgrade	65	60	85	36	36	57	42	42	65	6.3	6.8	7.4
309901	Upgrade	65	60	85	23	23	47	35	35	59	12.1	12.0	11.5
309904	Upgrade	65	60	85	33	33	55	39	39	61	5.6	6.3	6.1
309916	Upgrade	65	60	85	33	33	54	39	39	62	5.6	6.3	8.1
309918	Upgrade	65	60	85	57	58	83	63	63	86	5.2	5.2	3.9
309920	Upgrade	65	60	85	33	33	54	39	39	61	5.5	6.4	7.0
309923	Upgrade	65	60	85	47	47	68	53	53	75	6.1	6.4	6.6
309927	Upgrade	65	60	85	48	47	68	54	54	75	6.1	6.4	6.6
309933	Upgrade	65	60	85	31	31	54	36	37	59	4.9	5.9	5.0
309939	Upgrade	65	60	85	41	41	63	47	47	69	6.2	6.7	6.5
309942	Upgrade	65	60	85	44	43	65	50	50	72	6.3	6.7	6.7
309951	Upgrade	65	60	85	42	42	65	48	48	69	5.8	6.2	4.7
309961	Upgrade	65	60	85	0	0	0	43	43	67	43.0	43.3	66.5
309966	Upgrade	65	60	85	41	41	65	48	49	71	7.6	7.7	6.3
309969	Upgrade	65	60	85	42	42	65	49	49	71	6.5	6.9	6.6
309977	Upgrade	65	60	85	25	25	48	33	34	57	8.3	8.3	9.4
309994	Upgrade	65	60	85	27	27	49	35	35	59	8.3	8.2	9.3
310000	Upgrade	65	60	85	26	26	50	34	35	58	8.2	8.3	8.2
310010	Upgrade	65	60	85	41	42	65	47	48	70	5.9	5.9	5.2
310014	Upgrade	65	60	85	41	41	65	47	47	70	6.0	6.0	5.1
310022	Upgrade	65	60	85	0	0	0	42	42	64	41.7	41.8	64.2
310054	Upgrade	65	60	85	46	45	67	52	51	73	6.0	6.4	5.9
310057	Upgrade	65	60	85	25	25	48	33	33	57	8.1	8.1	9.1
310060	Upgrade	65	60	85	24	24	47	32	33	56	8.4	8.4	9.3
310072	Upgrade	65	60	85	25	25	49	33	33	56	8.0	8.0	7.6
310074	Upgrade	65	60	85	24	24	49	32	33	56	8.3	8.4	7.7
310085	Upgrade	65	60	85	24	24	47	32	32	56	8.4	8.4	8.8
310095	Upgrade	65	60	85	46	46	69	51	52	75	5.7	5.6	5.5
310104	Upgrade	65	60	85	44	44	67	49	49	72	5.6	5.7	5.6
310118	Upgrade	65	60	85	42	42	65	47	48	71	5.8	5.8	5.4
310130	Upgrade	65	60	85	44	43	67	50	50	72	6.4	6.8	5.3
310132	Upgrade	65	60	85	46	46	69	52	52	75	6.2	6.6	6.2
310133	Upgrade	65	60	85	36	36	60	43	43	66	6.9	7.0	6.5
310139	Upgrade	65	60	85	41	42	65	47	47	71	5.8	5.8	5.3
310141	Upgrade	65	60	85	46	45	68	52	52	74	6.3	6.6	6.7



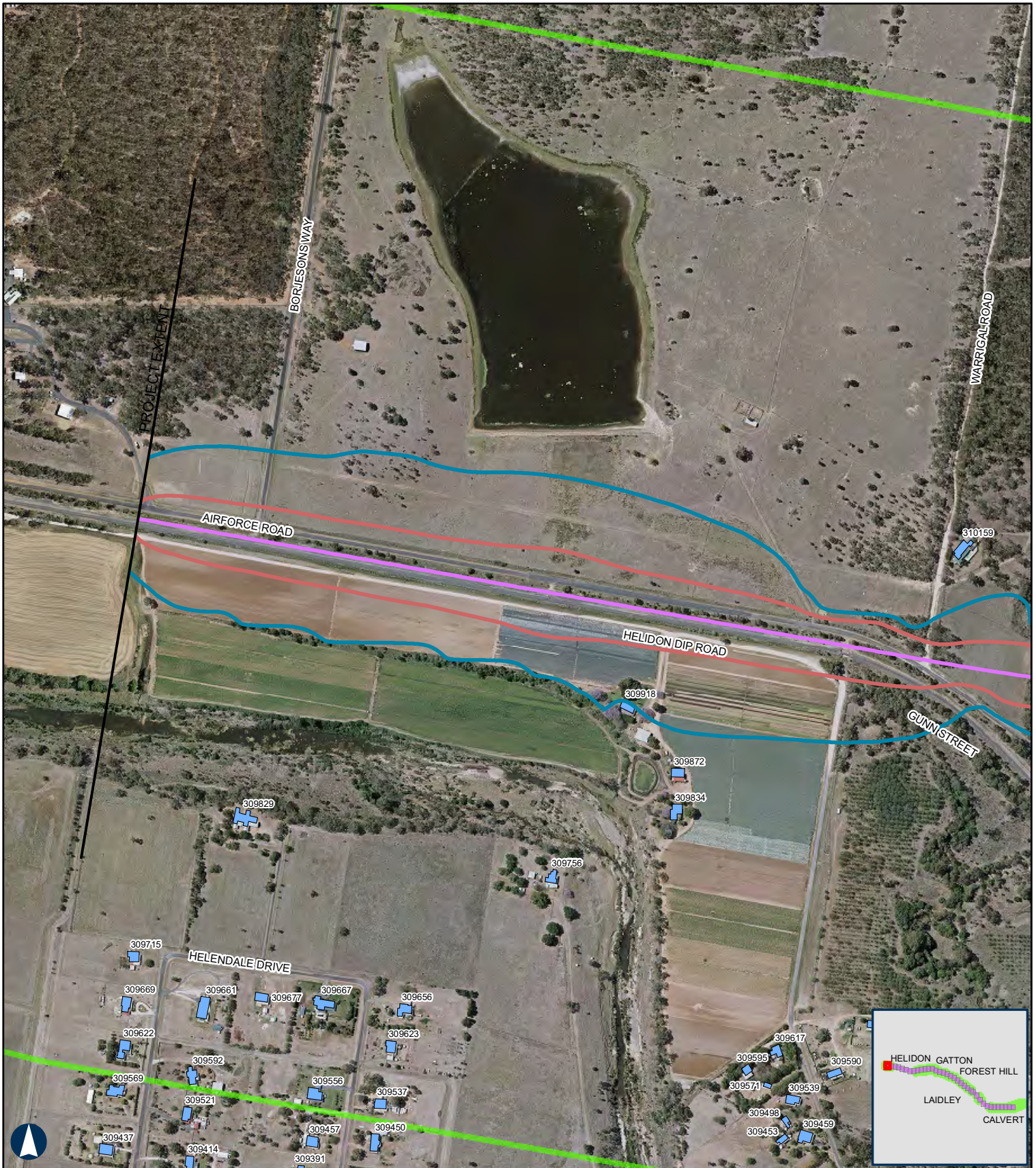
Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx	LAeq,15hr	LAeq,9hr	LAmx
310150	Upgrade	65	60	85	42	43	66	48	49	71	5.7	5.9	5.3
310154	Upgrade	65	60	85	0	0	0	47	47	71	47.0	47.4	70.8
310159	Upgrade	65	60	85	55	56	81	60	61	84	4.8	4.8	3.6
310184	Upgrade	65	60	85	0	0	0	47	47	69	47.1	47.2	69.2
310187	Upgrade	65	60	85	41	41	62	47	47	68	6.2	6.3	5.5
310189	Upgrade	65	60	85	39	39	64	45	45	69	6.2	6.1	4.9
310211	Upgrade	65	60	85	40	40	63	46	46	68	6.1	6.2	5.8
310217	Upgrade	65	60	85	30	31	53	38	38	61	7.5	7.5	8.0
310219	Upgrade	65	60	85	39	38	62	44	44	66	5.7	6.0	4.4
310226	Upgrade	65	60	85	0	0	0	39	39	57	39.1	38.6	57.4
310238	Upgrade	65	60	85	30	30	52	37	38	61	7.8	7.9	9.0
310239	Upgrade	65	60	85	32	32	55	39	40	63	7.6	7.6	8.0
310245	Upgrade	65	60	85	21	22	46	30	30	53	8.5	8.4	7.5
310251	Upgrade	65	60	85	34	34	57	40	40	62	6.1	6.2	5.8
310270	Upgrade	65	60	85	0	0	0	49	49	70	48.6	48.6	70.3
310276	Upgrade	65	60	85	0	0	0	44	45	68	44.3	44.7	67.9
310284	Upgrade	65	60	85	0	0	0	44	44	68	43.9	44.2	67.6
310286	Upgrade	65	60	85	0	0	0	43	43	66	42.7	43.0	66.3
310289	Upgrade	65	60	85	0	0	0	46	46	68	46.2	46.2	68.3
310296	Upgrade	65	60	85	0	0	0	20	21	44	20.1	20.5	43.8
310299	Upgrade	65	60	85	0	0	0	39	40	63	39.1	39.5	62.9
310323	Upgrade	65	60	85	35	35	58	42	42	64	6.8	6.9	6.2
310333	Upgrade	65	60	85	38	39	62	46	46	70	7.6	7.7	8.1
310353	Upgrade	65	60	85	33	34	57	40	40	63	6.4	6.5	5.8
310373	Upgrade	65	60	85	34	34	59	42	42	66	8.1	8.1	6.9
310382	Upgrade	65	60	85	39	40	62	47	48	71	7.8	7.9	9.0
310414	Upgrade	65	60	85	39	39	63	45	45	68	5.6	5.9	4.3
310465	Upgrade	65	60	85	41	41	64	49	49	72	7.2	7.4	8.3
310466	Upgrade	65	60	85	38	38	62	44	44	66	5.8	6.1	4.3
310495	Upgrade	65	60	85	40	40	63	47	48	71	7.1	7.2	7.8
310529	Upgrade	65	60	85	0	0	0	46	46	67	46.1	46.2	67.3
310544	Upgrade	65	60	85	43	43	65	49	49	72	6.0	6.3	6.3
310568	Upgrade	65	60	85	42	42	65	48	48	71	6.2	6.5	5.9
310587	Upgrade	65	60	85	0	0	0	47	48	71	47.4	47.8	70.7
310623	Upgrade	65	60	85	38	38	62	45	45	68	6.5	6.8	5.6
310672	Upgrade	65	60	85	0	0	0	40	41	64	40.3	40.5	64.2
310689	Upgrade	65	60	85	40	40	64	45	46	68	5.7	6.0	4.5
310753	New	60	55	80	-	-	-	51	51	75	-	-	-
310768	Upgrade	65	60	85	39	39	61	45	45	66	5.6	5.8	4.4
310791	Upgrade	65	60	85	42	41	65	47	48	70	5.9	6.2	5.8
310794	Upgrade	65	60	85	37	37	61	43	43	66	6.1	6.0	5.0
310797	Upgrade	65	60	85	38	37	58	44	44	64	5.8	6.2	5.6
310813	Upgrade	65	60	85	0	0	0	44	44	65	43.6	43.6	65.1
310838	Upgrade	65	60	85	39	39	63	46	46	68	6.1	6.3	5.5
310850	Upgrade	65	60	85	0	0	0	46	46	68	46.3	46.3	68.0
310888	Upgrade	65	60	85	41	41	65	46	47	69	5.7	5.9	4.5
310900	Upgrade	65	60	85	38	38	63	44	44	67	5.8	5.7	4.3
310913	Upgrade	65	60	85	43	43	67	49	49	73	5.7	5.8	5.2
310926	Upgrade	65	60	85	0	0	0	46	46	68	46.0	46.0	67.7
310944	Upgrade	65	60	85	37	37	59	43	43	65	5.8	6.2	6.0
310954	Upgrade	65	60	85	39	39	63	45	45	68	5.9	6.1	4.5

Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax
310969	Upgrade	65	60	85	44	44	67	51	51	75	7.2	7.1	7.8
310990	Upgrade	65	60	85	36	36	60	42	42	65	5.8	6.0	4.5
311022	Upgrade	65	60	85	37	37	62	43	43	66	5.7	5.8	4.5
311041	Upgrade	65	60	85	38	38	61	44	44	66	5.9	6.2	5.0
311042	Upgrade	65	60	85	0	0	0	43	43	65	43.2	43.2	64.8
311068	Upgrade	65	60	85	40	39	63	45	45	68	5.6	6.0	5.0
311081	Upgrade	65	60	85	35	35	59	41	41	63	5.7	6.1	4.5
311094	Upgrade	65	60	85	41	40	64	47	47	70	6.1	6.3	5.2
311143	Upgrade	65	60	85	38	38	63	44	45	68	6.0	6.1	4.6
311238	Upgrade	65	60	85	37	37	60	43	43	66	5.9	6.1	6.1
311262	Upgrade	65	60	85	39	39	63	45	45	67	5.7	5.9	4.4
311274	Upgrade	65	60	85	37	37	63	43	43	67	6.0	6.1	4.1
311298	Upgrade	65	60	85	0	0	0	46	46	67	45.6	45.5	67.3
311309	Upgrade	65	60	85	40	39	63	45	45	68	5.6	6.0	4.5
311356	Upgrade	65	60	85	35	35	61	41	41	65	6.1	6.1	4.0
311365	Upgrade	65	60	85	34	33	56	40	40	61	6.6	6.8	5.4
311372	Upgrade	65	60	85	38	38	62	44	44	66	5.6	5.9	4.1
311392	Upgrade	65	60	85	35	35	61	41	42	65	6.4	6.4	4.3
311505	Upgrade	65	60	85	37	37	61	43	43	65	5.8	6.0	4.8
311569	Upgrade	65	60	85	33	34	58	41	41	64	7.3	7.3	5.7
311680	Upgrade	65	60	85	0	0	0	41	41	63	41.0	41.0	63.3
311882	Upgrade	65	60	85	39	39	62	44	44	67	5.0	4.9	4.6
312056	Upgrade	65	60	85	0	0	0	37	38	61	37.3	37.6	61.1
312124	Upgrade	65	60	85	0	0	0	35	35	58	34.8	35.1	58.4
312438	Upgrade	65	60	85	43	43	65	49	49	72	6.2	6.2	6.6
312665	Upgrade	65	60	85	38	38	64	45	45	69	6.9	6.8	4.8
324082	Upgrade	65	60	85	59	59	85	42	42	65	-17.6	-17.6	-19.5
324128	New	60	55	80	-	-	-	47	48	71	-	-	-
324129	New	60	55	80	-	-	-	48	49	71	-	-	-
324130	Upgrade	65	60	85	25	25	45	44	45	67	19.7	20.0	22.1
324131	Upgrade	65	60	85	24	25	45	45	45	67	20.3	20.6	22.3
324132	Upgrade	65	60	85	22	23	44	45	45	68	22.4	22.8	23.2
324133	New	60	55	80	-	-	-	47	48	70	-	-	-
324134	Upgrade	65	60	85	44	44	67	49	49	72	5.6	5.7	5.7
324135	Upgrade	65	60	85	50	50	73	59	59	79	8.7	9.0	5.8
324136	New	60	55	80	-	-	-	57	57	81	-	-	-
324137	New	60	55	80	-	-	-	55	55	78	-	-	-
324138	New	60	55	80	-	-	-	55	55	78	-	-	-
324139	New	60	55	80	-	-	-	56	56	79	-	-	-
324140	New	60	55	80	-	-	-	56	56	80	-	-	-
324141	New	60	55	80	-	-	-	58	58	82	-	-	-
324142	New	60	55	80	-	-	-	57	58	81	-	-	-
324143	Upgrade	65	60	85	47	46	71	42	43	66	-4.8	-3.6	-4.9
324144	Upgrade	65	60	85	53	52	79	46	46	68	-7.2	-5.4	-10.5
324148	Upgrade	65	60	85	36	35	61	39	39	62	3.0	4.4	0.7
324153	Upgrade	65	60	85	59	58	86	60	60	81	1.0	2.5	-4.8
324156	New	60	55	80	-	-	-	55	55	77	-	-	-
324157	New	60	55	80	-	-	-	58	58	81	-	-	-
324160	Upgrade	65	60	85	50	51	73	41	41	65	-9.6	-9.5	-8.8
324162	Upgrade	65	60	85	54	52	79	46	46	69	-8.0	-6.1	-10.2
324163	Upgrade	65	60	85	51	50	75	48	48	71	-3.3	-1.5	-4.4



Receptor ID	New rail corridor/upgrade of existing infrastructure	Rail noise criteria			Existing rail noise levels, dBA			Project rail noise levels dBA			Change in noise level, dBA		
		LAeq Day	LAeq Night	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax	LAeq,15hr	LAeq,9hr	Lamax
324164	Upgrade	65	60	85	52	50	77	46	46	69	-5.9	-3.9	-8.6
324165	Upgrade	65	60	85	49	48	75	46	46	69	-3.8	-2.6	-6.3
324166	Upgrade	65	60	85	51	50	76	46	46	68	-5.2	-3.6	-7.7
324167	Upgrade	65	60	85	49	47	75	48	48	71	-0.8	0.9	-4.5
324179	Upgrade	65	60	85	0	0	0	46	46	67	46.0	46.0	67.2
324180	Upgrade	65	60	85	0	0	0	41	41	65	41.0	41.3	64.7
324190	Upgrade	65	60	85	39	39	63	45	45	68	5.8	5.9	5.1
324191	Upgrade	65	60	85	39	39	64	45	45	69	6.1	6.0	4.8
324192	Upgrade	65	60	85	42	43	66	48	48	71	5.6	5.8	5.6
324199	Upgrade	65	60	85	40	40	64	46	46	69	5.7	5.9	4.6
324210	Upgrade	65	60	85	48	48	70	55	55	77	6.9	6.9	6.7
324211	New	60	55	80	-	-	-	64	64	88	-	-	-
324212	New	60	55	80	-	-	-	60	60	84	-	-	-
324213	New	60	55	80	-	-	-	66	66	90	-	-	-
324214	New	60	55	80	-	-	-	59	59	83	-	-	-
324215	New	60	55	80	-	-	-	61	61	85	-	-	-
324216	New	60	55	80	-	-	-	59	59	83	-	-	-
324217	Upgrade	65	60	85	48	48	71	54	55	78	6.3	6.2	6.6
324220	Upgrade	65	60	85	0	0	0	43	43	67	43.1	43.4	67.3
324223	New	60	55	80	-	-	-	60	61	84	-	-	-
324224	New	60	55	80	-	-	-	59	59	83	-	-	-
324225	New	60	55	80	-	-	-	63	63	87	-	-	-
324228	Upgrade	65	60	85	47	46	71	47	47	70	-0.6	0.7	-1.1
324234	New	60	55	80	-	-	-	53	53	76	-	-	-
324236	Upgrade	65	60	85	44	44	67	52	52	75	7.4	7.3	7.8
324243	Upgrade	65	60	85	60	60	88	47	48	71	-12.4	-12.3	-16.7
324244	New	60	55	80	-	-	-	56	56	80	-	-	-
324245	New	60	55	80	-	-	-	56	57	80	-	-	-
324246	Upgrade	65	60	85	43	42	66	48	48	71	4.9	6.0	5.1
324247	Upgrade	65	60	85	42	41	65	47	47	70	4.7	5.8	5.2
324249	Upgrade	65	60	85	43	42	66	48	48	71	5.2	6.3	4.9
324250	Upgrade	65	60	85	46	45	71	47	47	71	1.3	2.4	-0.1
324251	Upgrade	65	60	85	51	50	78	46	46	69	-5.2	-3.3	-8.7
324252	Upgrade	65	60	85	53	51	78	46	47	69	-6.3	-4.3	-8.5
324253	Upgrade	65	60	85	50	48	75	45	46	69	-4.2	-2.7	-6.4
324254	Upgrade	65	60	85	50	48	75	46	46	70	-3.7	-2.2	-5.8
324255	Upgrade	65	60	85	47	46	72	46	47	70	-1.0	0.3	-2.1
324256	Upgrade	65	60	85	50	49	74	47	47	69	-3.1	-1.6	-5.3
324257	Upgrade	65	60	85	50	48	76	47	47	70	-2.5	-0.9	-6.1
324262	New	60	55	80	-	-	-	57	57	81	-	-	-
324263	New	60	55	80	-	-	-	58	58	81	-	-	-
324264	New	60	55	80	-	-	-	58	58	83	-	-	-





## HELIDON TO CALVERT Year 2040 Daytime rail noise levels

APPENDIX E - Map 1 of 36

200 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4  
Date: 23-Jun-2020  
Author: JG

Scale: 1:7,500

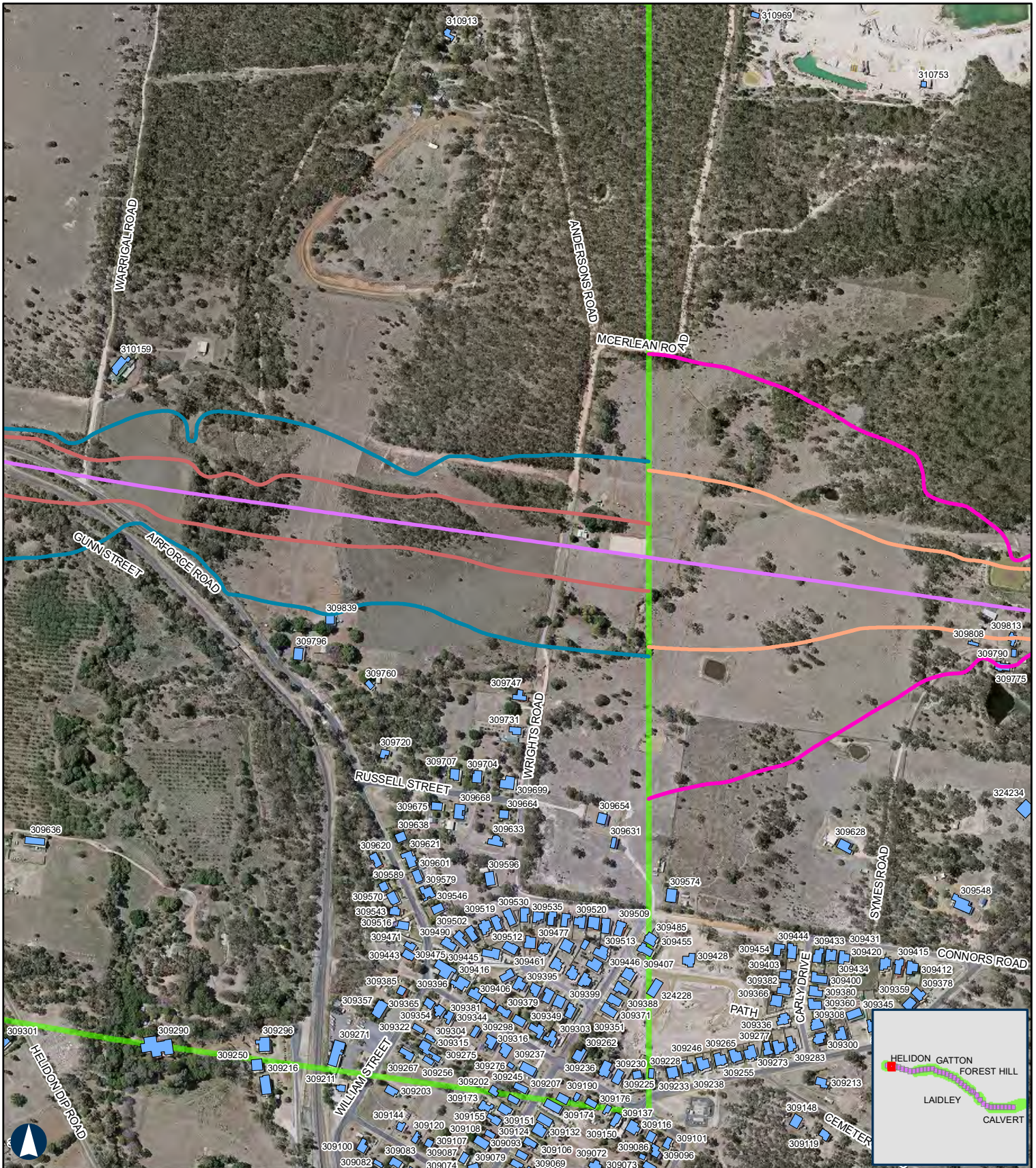
- Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway
- Daytime noise criteria LAeq15hr 60dBA New rail corridor
- Daytime noise criteria LAeq15hr 65dBA upgrading existing rail corridor
- Daytime noise criteria LA max 80dBA New rail corridor
- Daytime noise criteria LA max 85dBA upgrading existing rail corridor
- Receptors

Noise contours are based on a set distance above the local terrain level of 2.4m.



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## HELIDON TO CALVERT Year 2040 Daytime rail noise levels

APPENDIX E - Map 2 of 36

200 m

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 Date: 23-Jun-2020  
 Author: JG

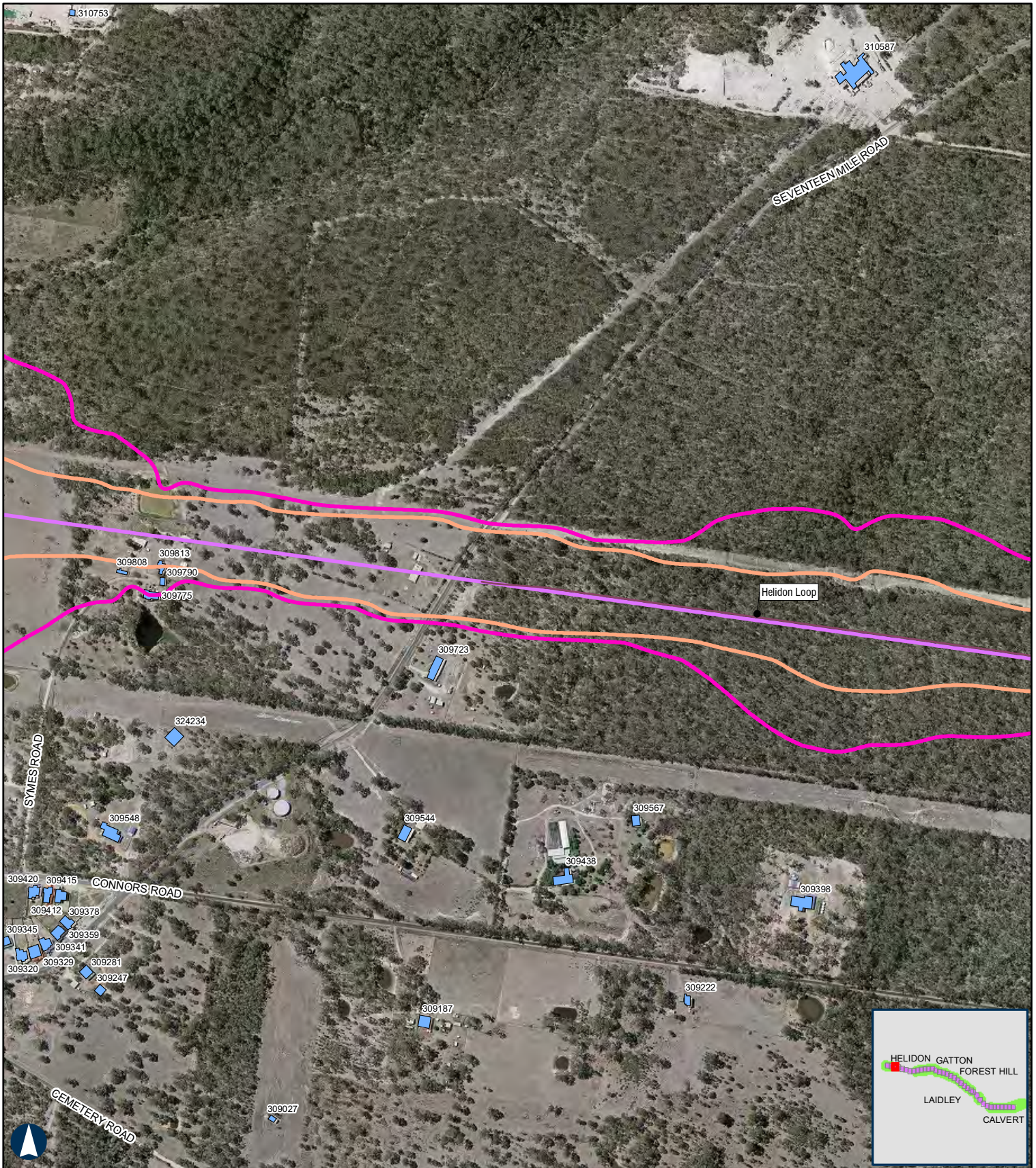
- X Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway
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## HELIDON TO CALVERT Year 2040 Daytime rail noise levels

APPENDIX E - Map 3 of 36

200 m

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 Date: 23-Jun-2020  
 Author: JG

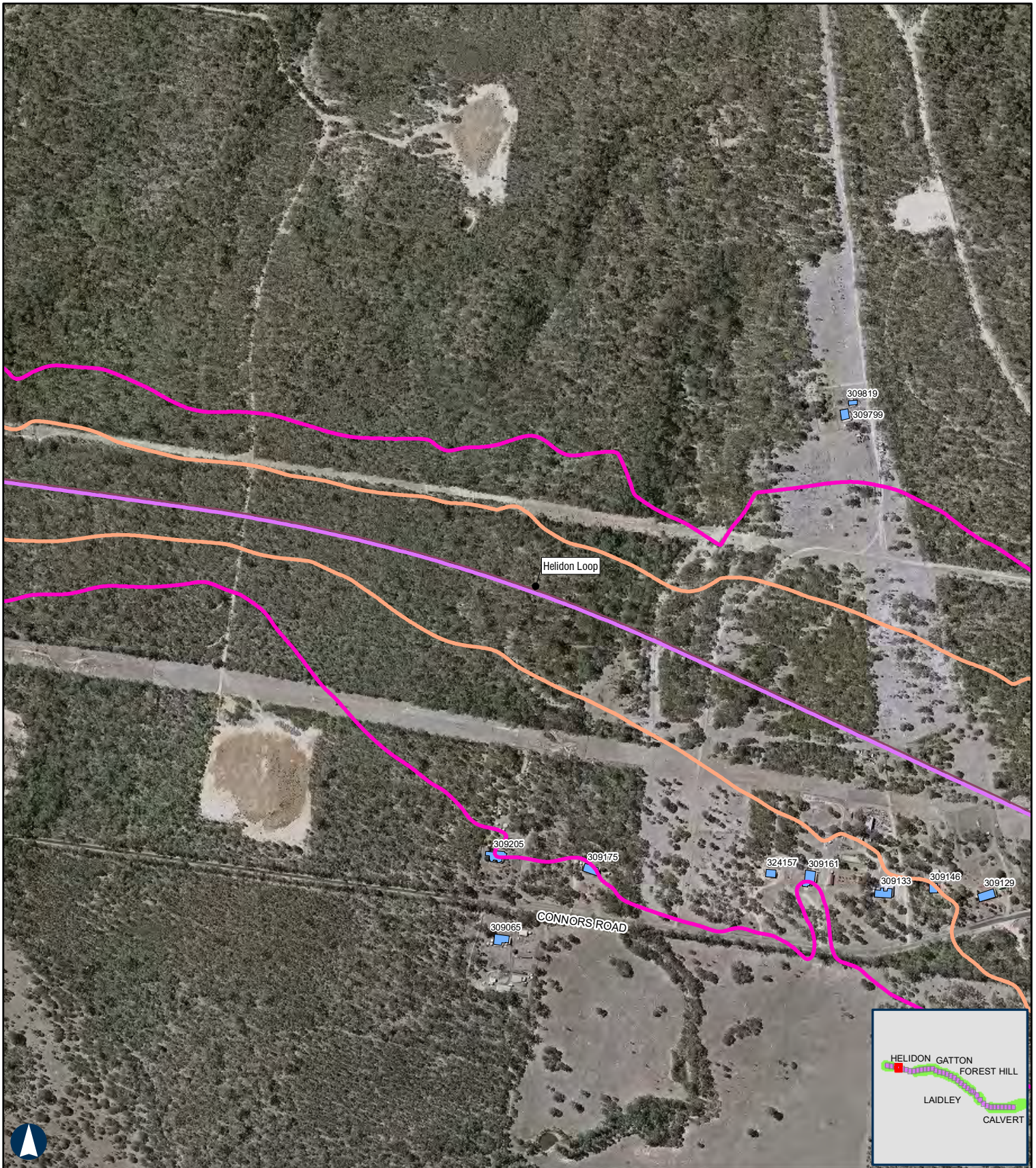
- Level Crossings
- Project Extent
- Crossing Loops
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## HELIDON TO CALVERT Year 2040 Daytime rail noise levels

APPENDIX E - Map 4 of 36

200 m

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 Date: 23-Jun-2020  
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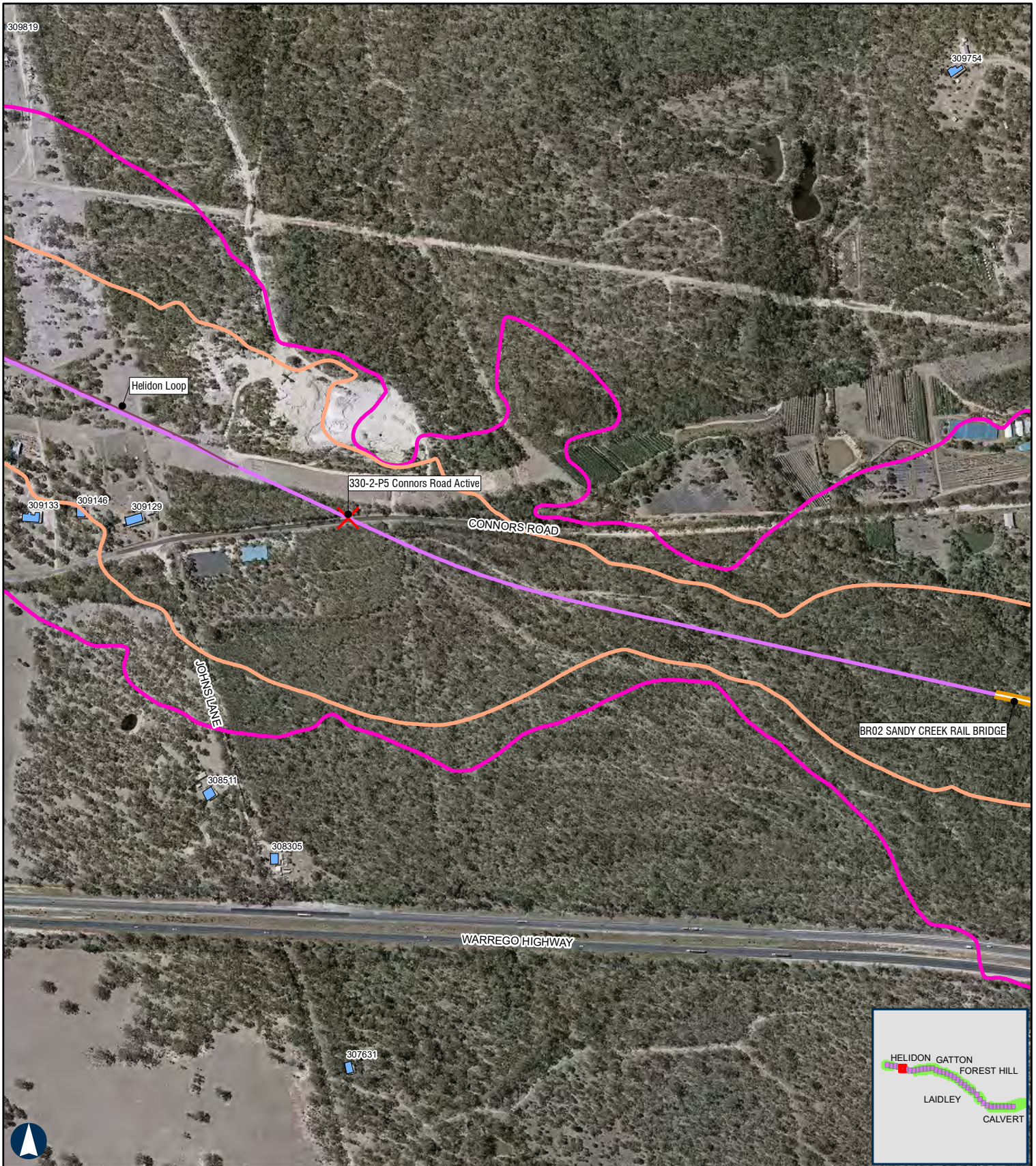
- Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
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- Noise Assessment Area – Upgrading Existing Railway
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APPENDIX E - Map 5 of 36

200 m

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 Date: 23-Jun-2020  
 Author: JG

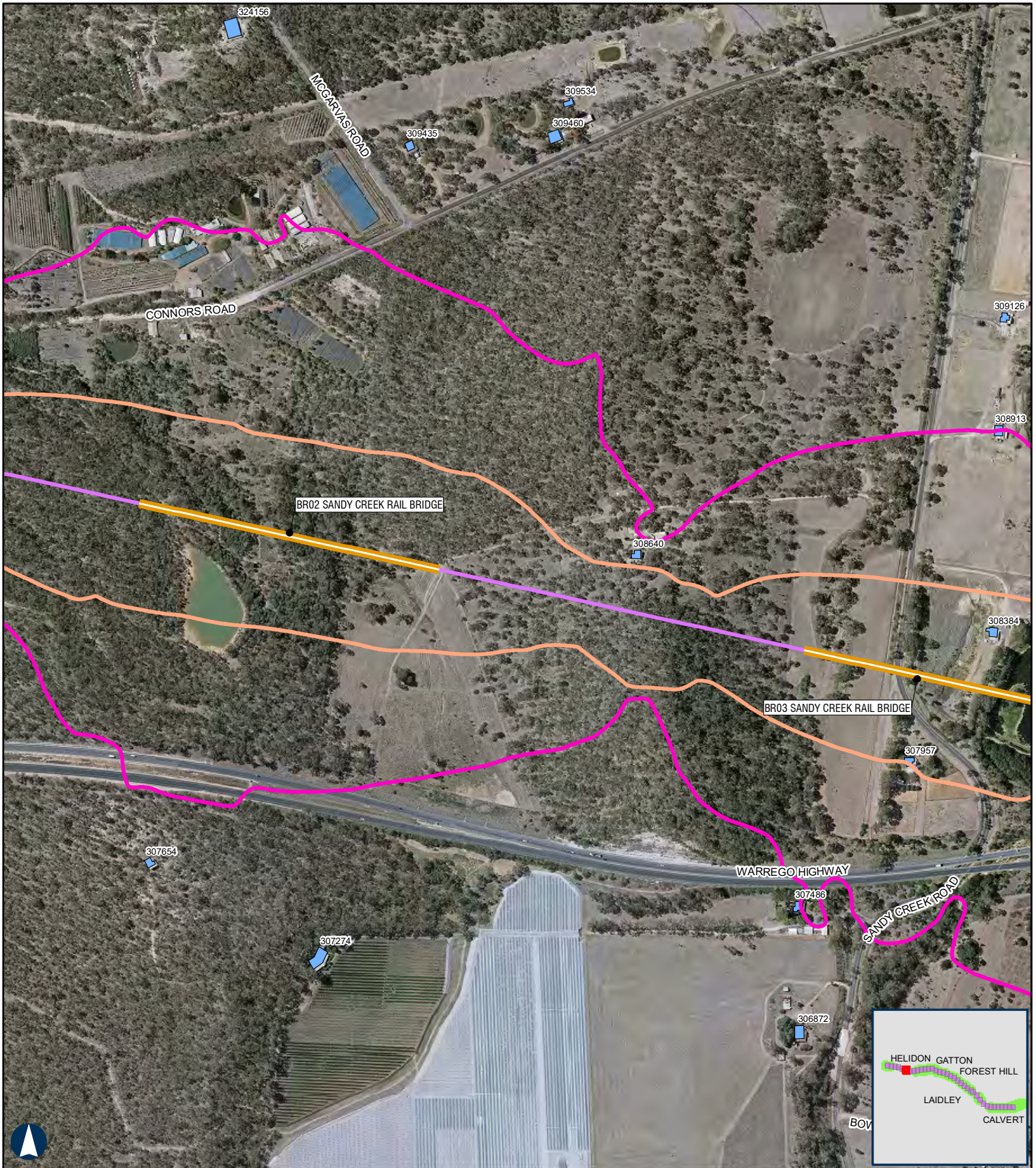
- Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
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## HELIDON TO CALVERT Year 2040 Daytime rail noise levels

APPENDIX E - Map 6 of 36

200 m

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 Date: 23-Jun-2020  
 Author: JG

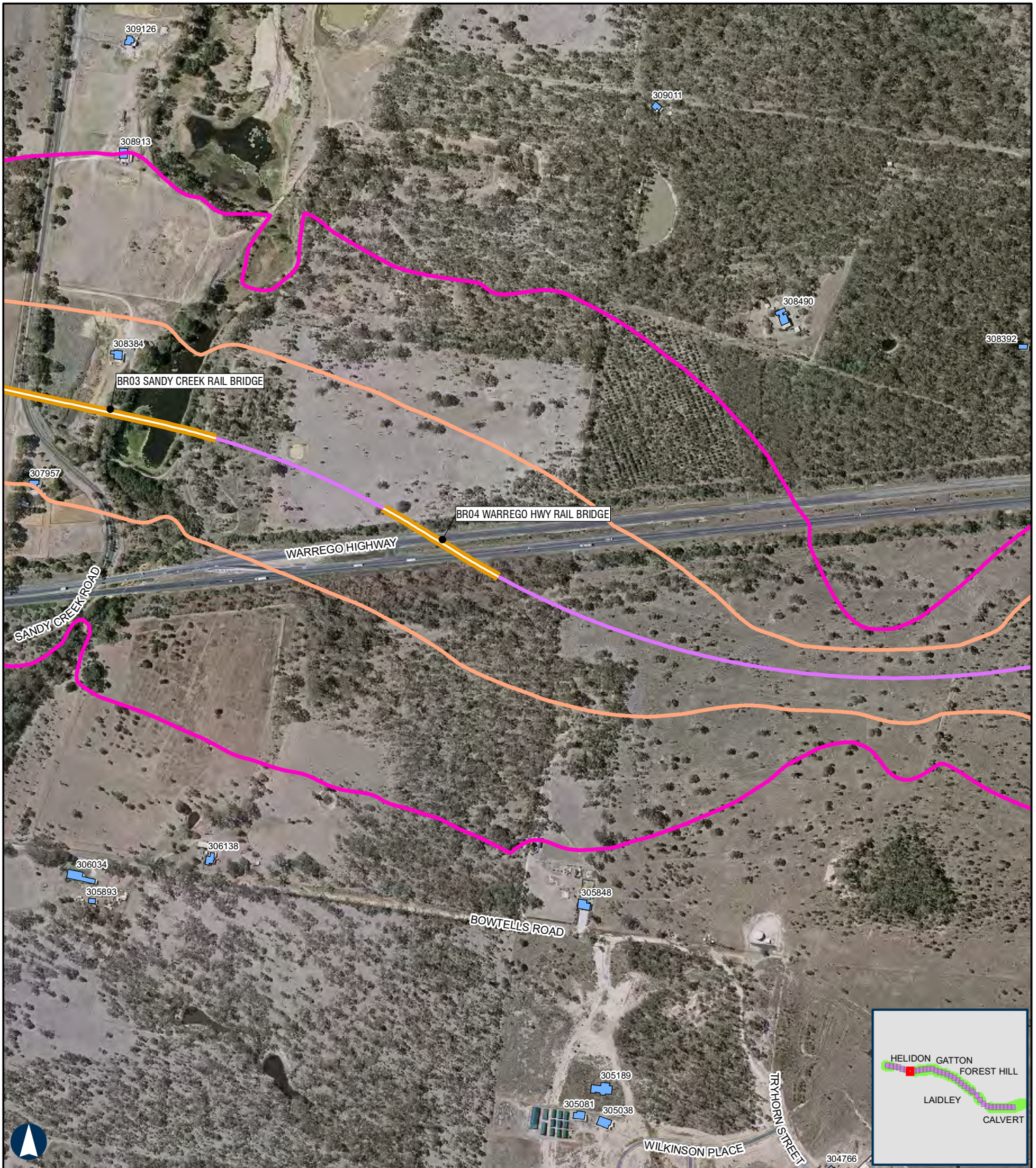
- Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
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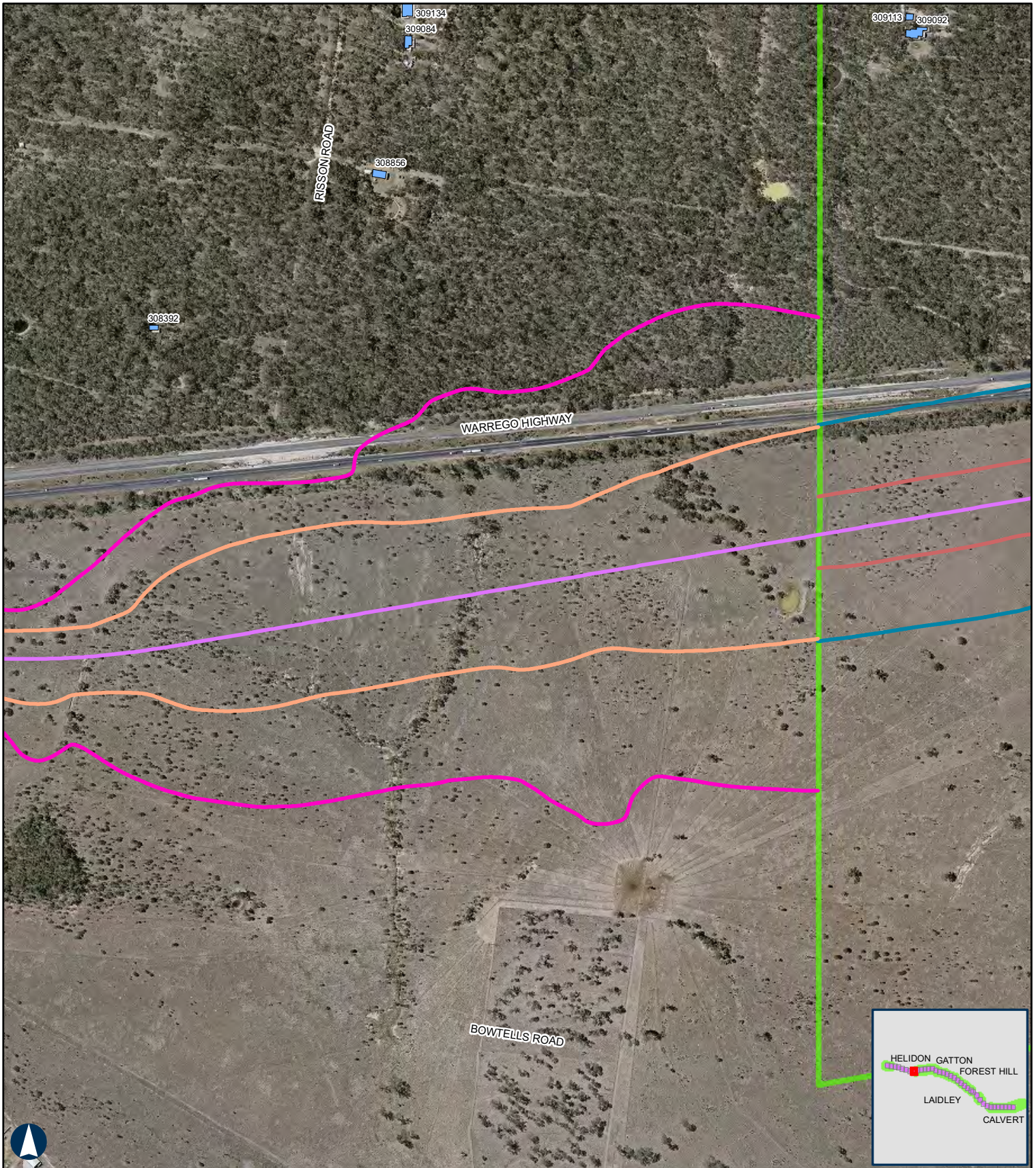
- Level Crossings
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APPENDIX E - Map 8 of 36

200 m

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Paper: A4 Scale: 1:7,500  
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 Author: JG

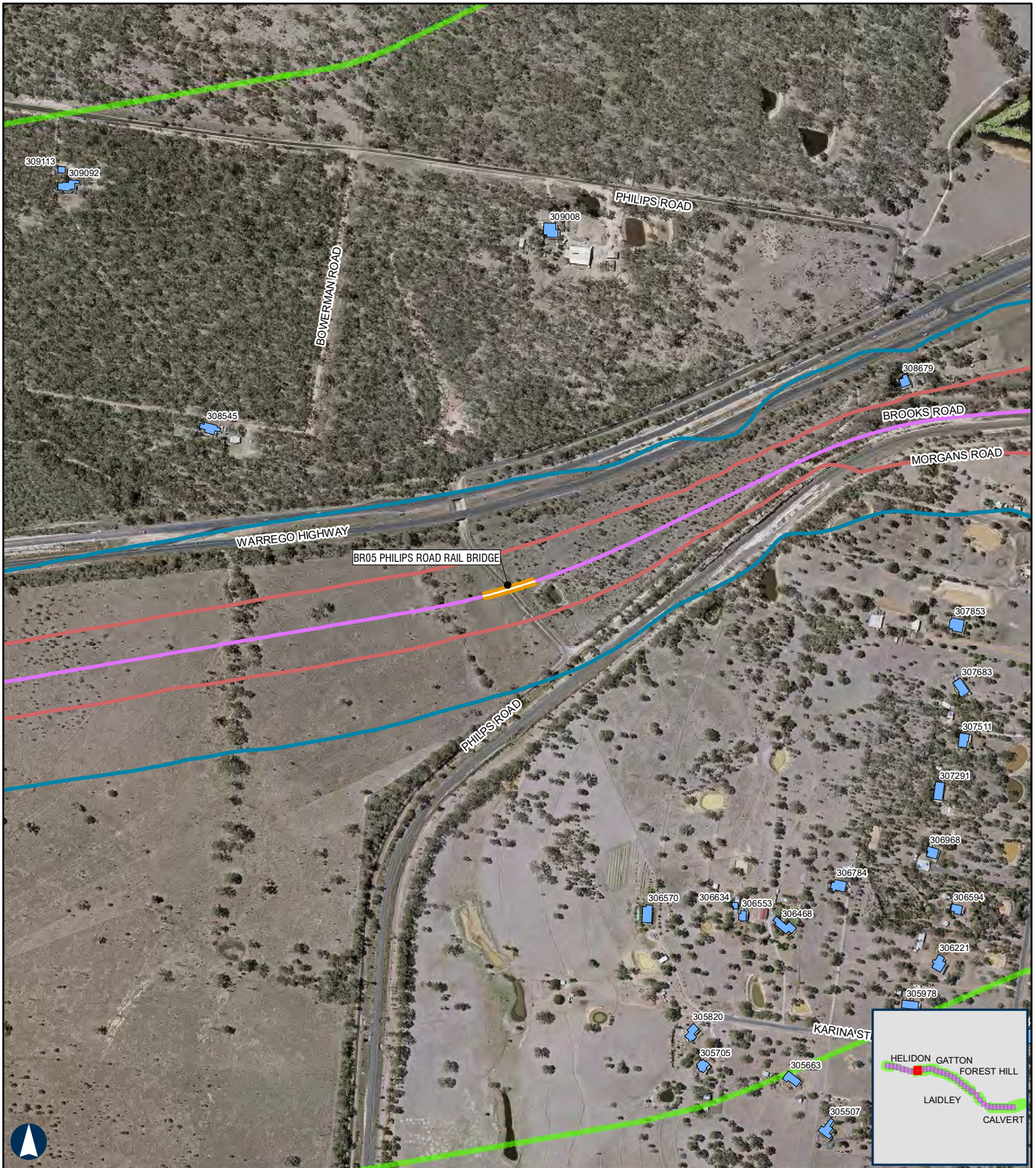
- Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway
- Receptors
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## HELIDON TO CALVERT Year 2040 Daytime rail noise levels

APPENDIX E - Map 9 of 36

200 m

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Paper: A4 Scale: 1:7,500  
 Date: 23-Jun-2020  
 Author: JG

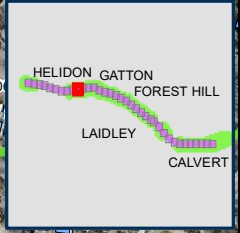
- Level Crossings
- Project Extent
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## HELIDON TO CALVERT Year 2040 Daytime rail noise levels

APPENDIX E - Map 10 of 36

200 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:7,500  
 Date: 23-Jun-2020  
 Author: JG

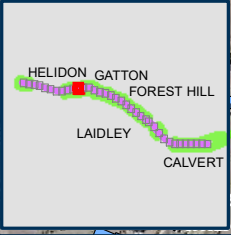
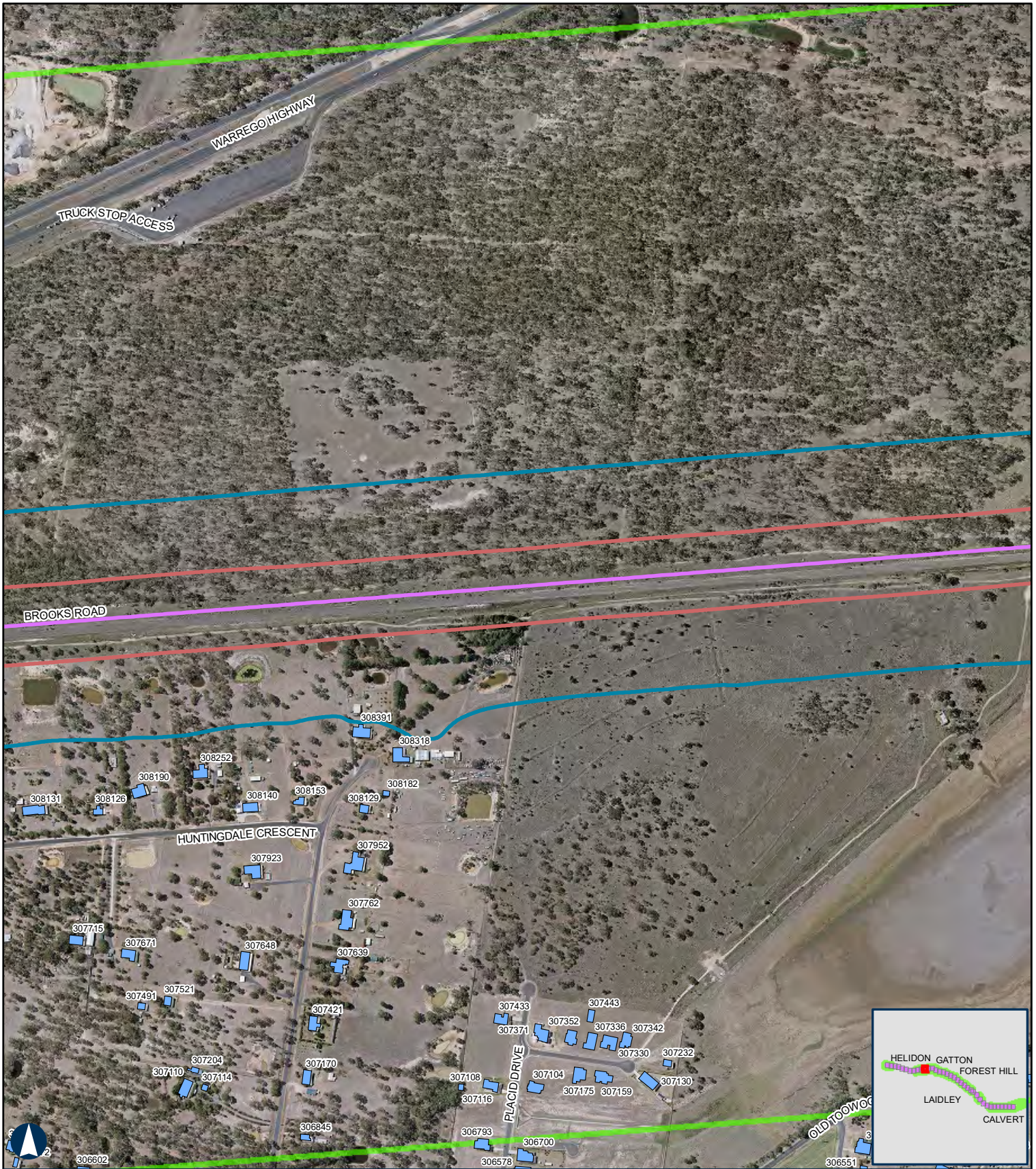
- Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway
- Daytime noise criteria LAeq15hr 60dBA New rail corridor
- Daytime noise criteria LAeq15hr 65dBA upgrading existing rail corridor
- Daytime noise criteria LA max 80dBA New rail corridor
- Daytime noise criteria LA max 85dBA upgrading existing rail corridor
- Receptors

Noise contours are based on a set distance above the local terrain level of 2.4m.



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## HELIDON TO CALVERT Year 2040 Daytime rail noise levels

APPENDIX E - Map 11 of 36

200 m

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 Author: JG

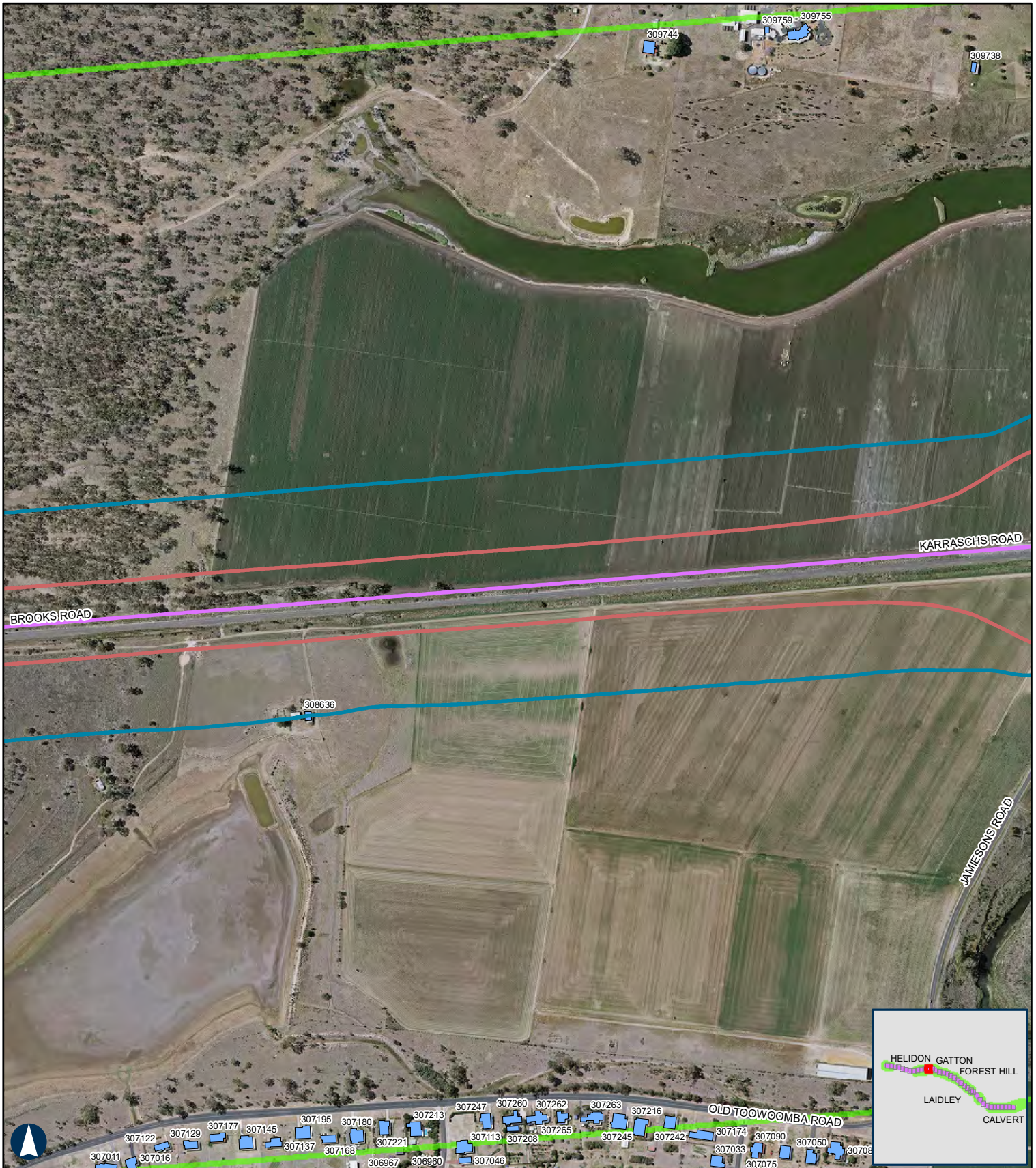
- Level Crossings
- Project Extent
- Crossing Loops
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- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway
- Daytime noise criteria LAeq15hr 60dBA New rail corridor
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# HELIDON TO CALVERT Year 2040 Daytime rail noise levels

200 m

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 Author: JG

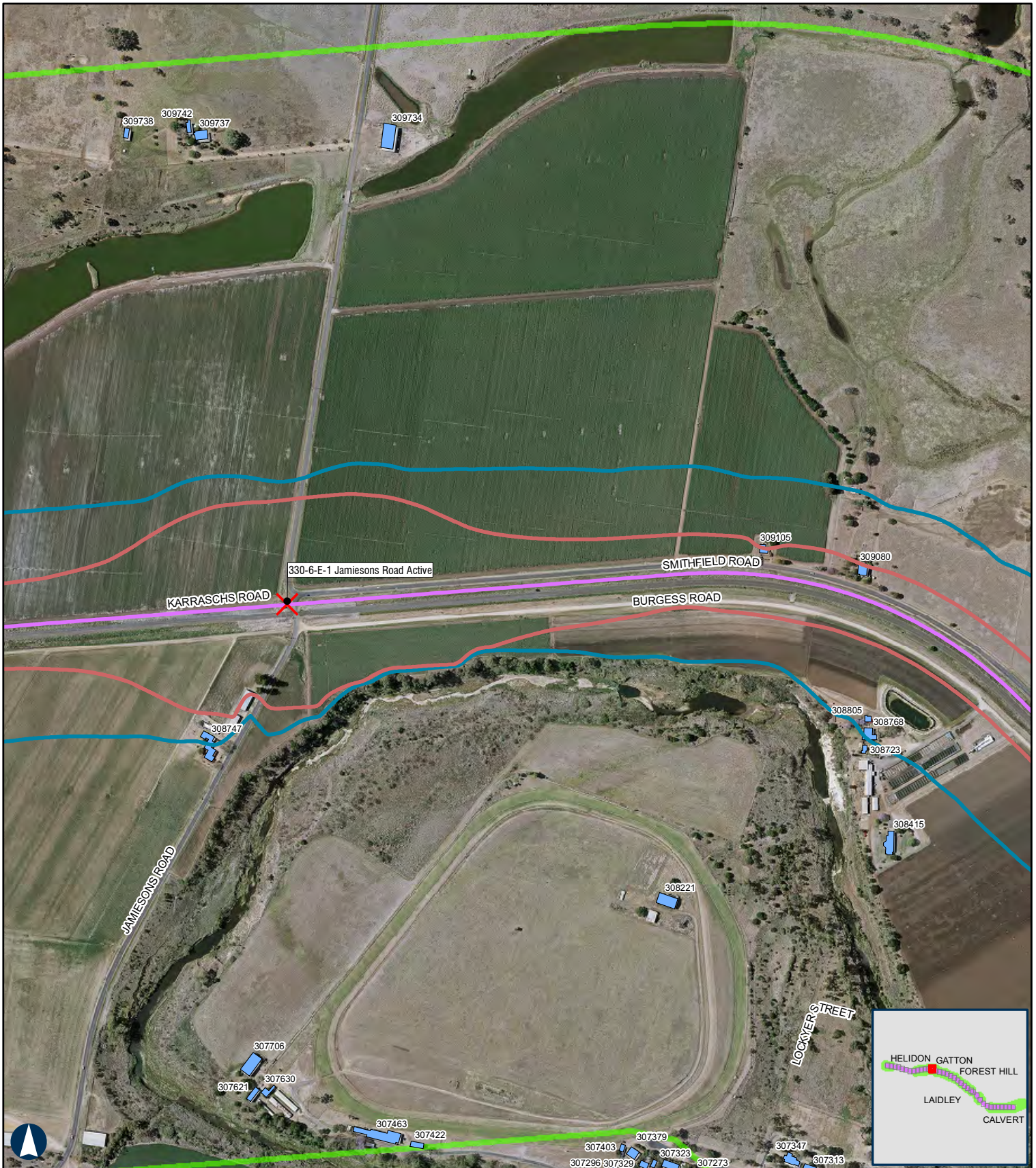
- ✕ Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
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- Noise Assessment Area – Upgrading Existing Railway
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**HELIDON TO CALVERT** Year 2040 Daytime rail noise levels APPENDIX E - Map 13 of 36

<p><b>200 m</b></p> <p>Coordinate System: GDA 1994 MGA Zone 56</p> <p>ARTC makes no representation or warranty and assumes no duty of care or other responsibility to any party as to the completeness, accuracy or suitability of the information contained in this GIS map. The GIS map has been prepared from material provided to ARTC by an external source and ARTC has not taken any steps to verify the completeness, accuracy or suitability of that material.</p> <p>ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information contained within this GIS map.</p> <p>Paper: A4      Scale: 1:7,500          Date: 23-Jun-2020          Author: JG</p>	<ul style="list-style-type: none"> <li><span style="color: red; font-size: 2em;">X</span> Level Crossings</li> <li><span style="border-bottom: 2px solid black; width: 20px; display: inline-block;"></span> Project Extent</li> <li><span style="border-bottom: 2px solid grey; width: 20px; display: inline-block;"></span> Crossing Loops</li> <li><span style="border-bottom: 2px solid purple; width: 20px; display: inline-block;"></span> Rail Alignment/Centreline</li> <li><span style="border-bottom: 2px solid orange; width: 20px; display: inline-block;"></span> Bridges and Viaducts</li> <li><span style="border-bottom: 2px solid brown; width: 20px; display: inline-block;"></span> Little Liverpool Range tunnel</li> <li><span style="border-bottom: 2px solid green; width: 20px; display: inline-block;"></span> Noise Assessment Area – Upgrading Existing Railway</li> </ul>	<ul style="list-style-type: none"> <li><span style="border-bottom: 2px solid orange; width: 20px; display: inline-block;"></span> Daytime noise criteria LAeq15hr 60dBA New rail corridor</li> <li><span style="border-bottom: 2px solid red; width: 20px; display: inline-block;"></span> Daytime noise criteria LAeq15hr 65dBA upgrading existing rail corridor</li> <li><span style="border-bottom: 2px solid purple; width: 20px; display: inline-block;"></span> Daytime noise criteria LA max 80dBA New rail corridor</li> <li><span style="border-bottom: 2px solid blue; width: 20px; display: inline-block;"></span> Daytime noise criteria LA max 85dBA upgrading existing rail corridor</li> <li><span style="color: blue; font-size: 1.5em;">■</span> Receptors</li> </ul>	<p>Noise contours are based on a set distance above the local terrain level of 2.4m.</p>
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## HELIDON TO CALVERT Year 2040 Daytime rail noise levels

APPENDIX E - Map 14 of 36

200 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4  
Date: 23-Jun-2020  
Author: JG

Scale: 1:7,500

- Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway
- Daytime noise criteria LAeq15hr 60dBA New rail corridor
- Daytime noise criteria LAeq15hr 65dBA upgrading existing rail corridor
- Daytime noise criteria LA max 80dBA New rail corridor
- Daytime noise criteria LA max 85dBA upgrading existing rail corridor
- Receptors

Noise contours are based on a set distance above the local terrain level of 2.4m.

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**HELIDON TO CALVERT** Year 2040 Daytime rail noise levels APPENDIX E - Map 15 of 36

**200 m**

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Paper: A4 Scale: 1:7,500  
 Date: 23-Jun-2020  
 Author: JG

- ✕ Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway
- Daytime noise criteria LAeq15hr 60dBA New rail corridor
- Daytime noise criteria LAeq15hr 65dBA upgrading existing rail corridor
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Noise contours are based on a set distance above the local terrain level of 2.4m.

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200 m

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Paper: A4 Date: 23-Jun-2020 Author: JG Scale: 1:7,500

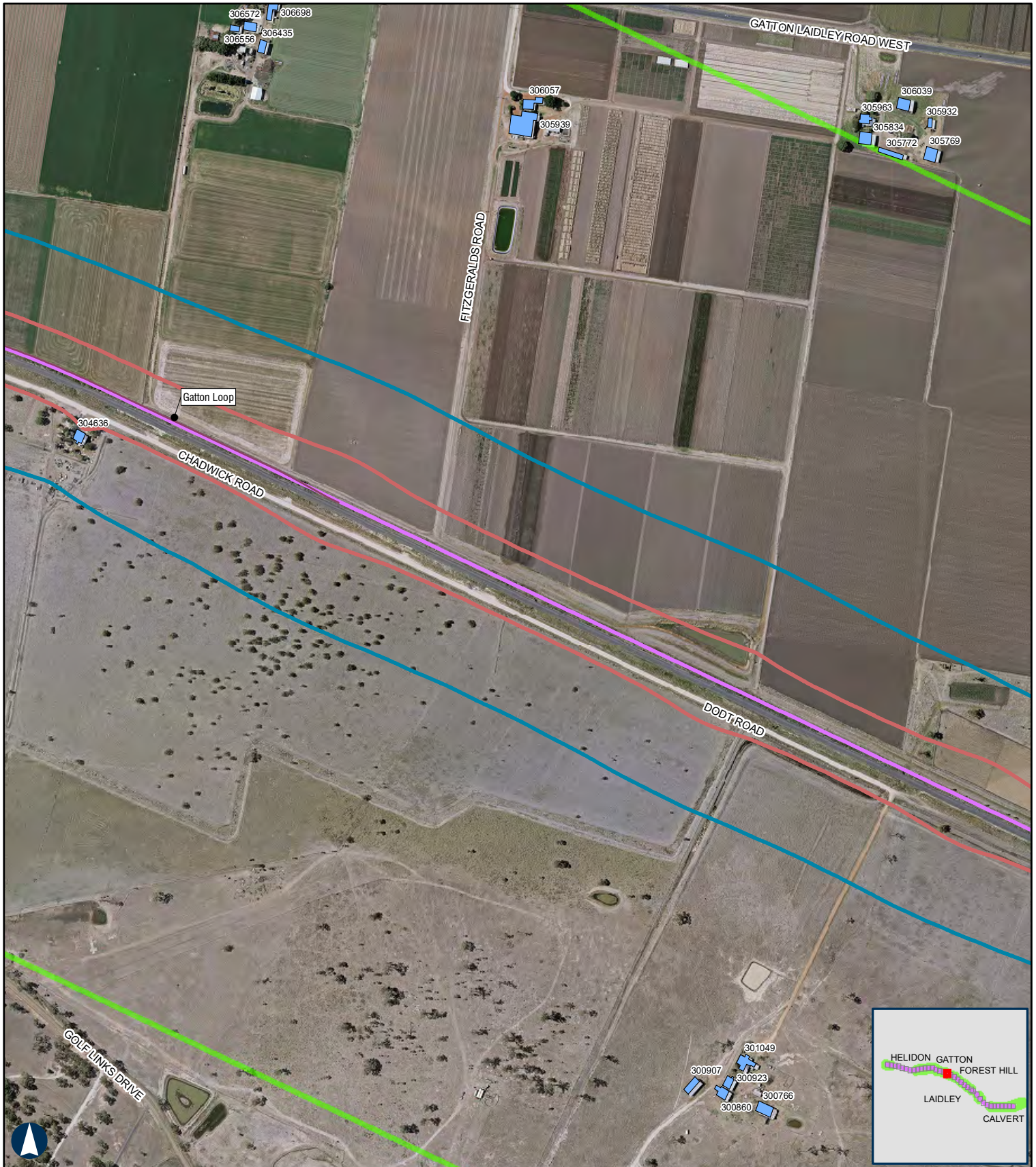
- Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway
- Receptors
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# HELIDON TO CALVERT Year 2040 Daytime rail noise levels

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Author: JG

Scale: 1:7,500

- Level Crossings
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- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
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## HELIDON TO CALVERT Year 2040 Daytime rail noise levels

APPENDIX E - Map 18 of 36

200 m

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Paper: A4 Scale: 1:7,500  
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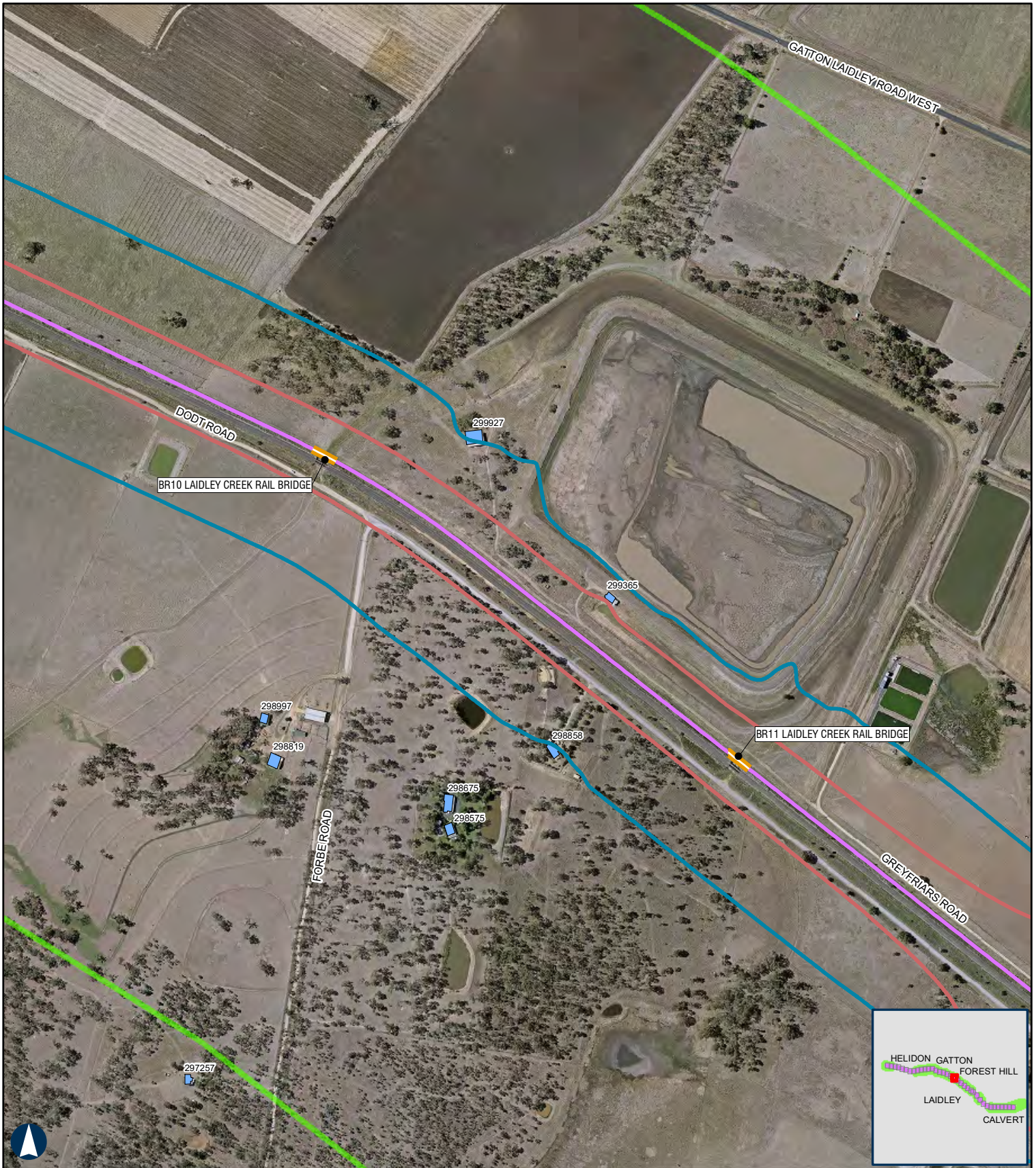
- ✗ Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway
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- Daytime noise criteria LA max 85dBA upgrading existing rail corridor
- Receptors

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APPENDIX E - Map 19 of 36

200 m

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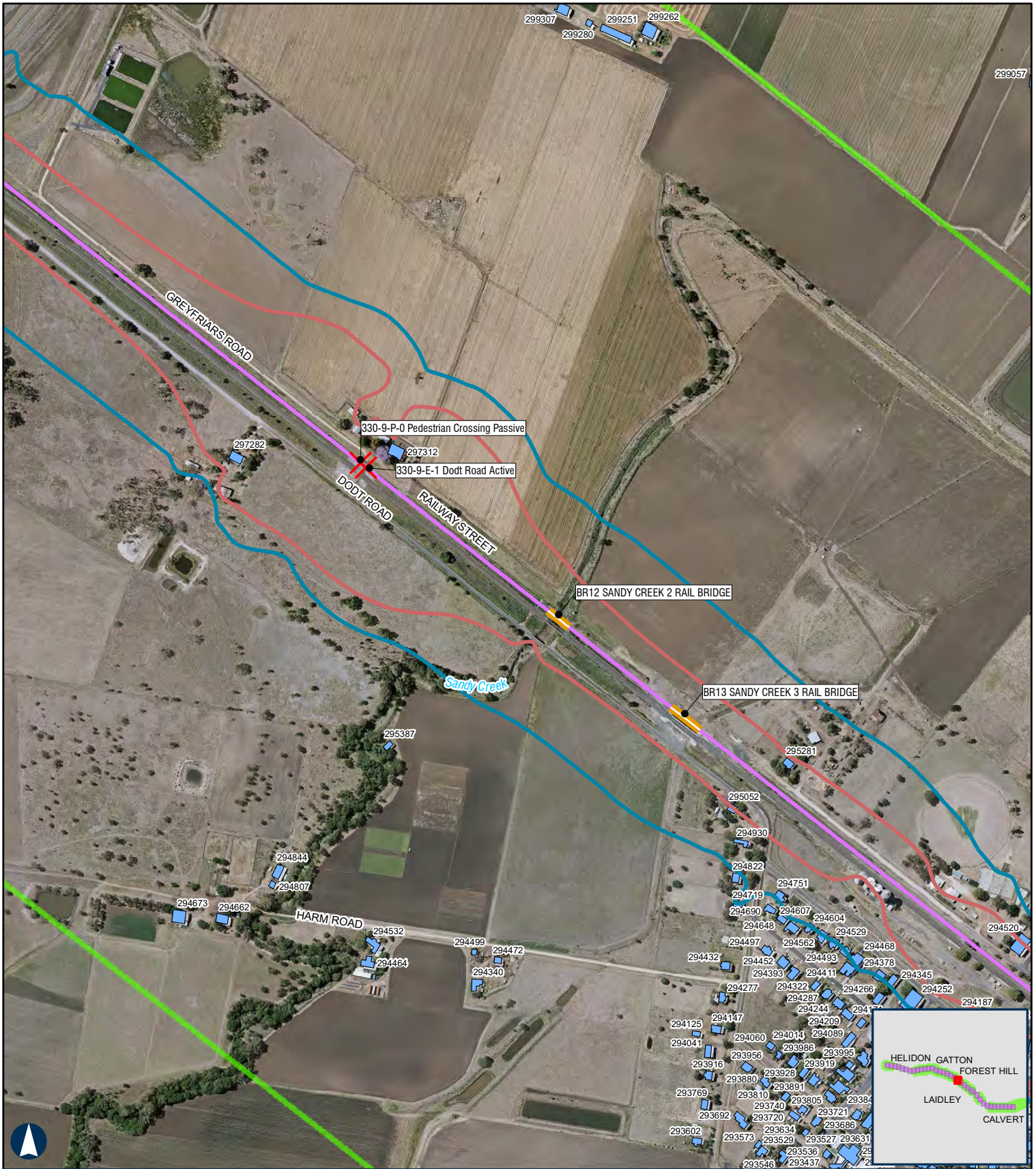
- Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway
- Receptors
- Daytime noise criteria LAeq15hr 60dBA New rail corridor
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200 m

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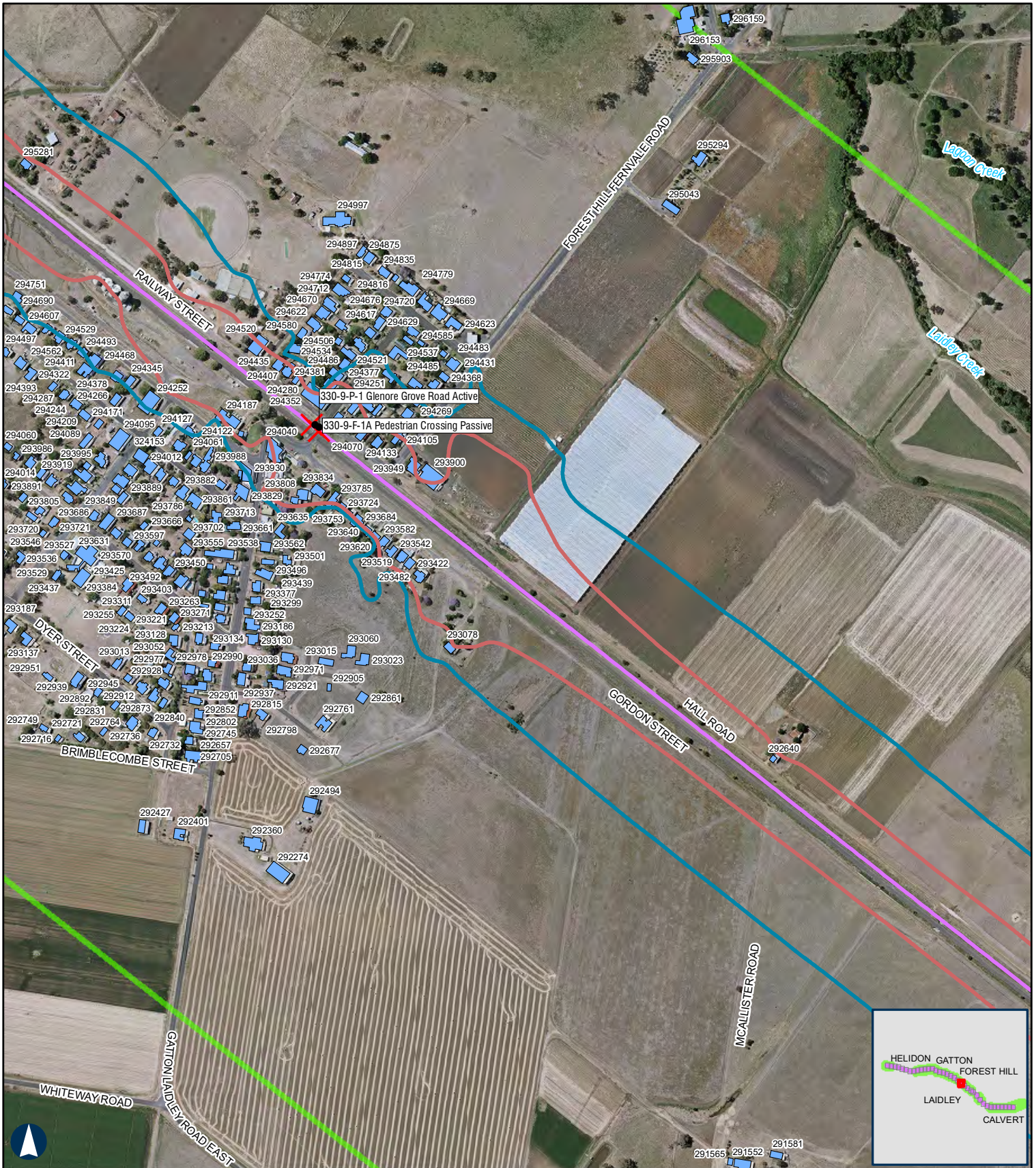
- ✕ Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway
- Daytime noise criteria LAeq15hr 60dBA New rail corridor
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- Daytime noise criteria LA max 85dBA upgrading existing rail corridor
- Receptors

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APPENDIX E - Map 21 of 36

200 m

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Date: 23-Jun-2020  
Author: JG

Scale: 1:7,500

- Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway

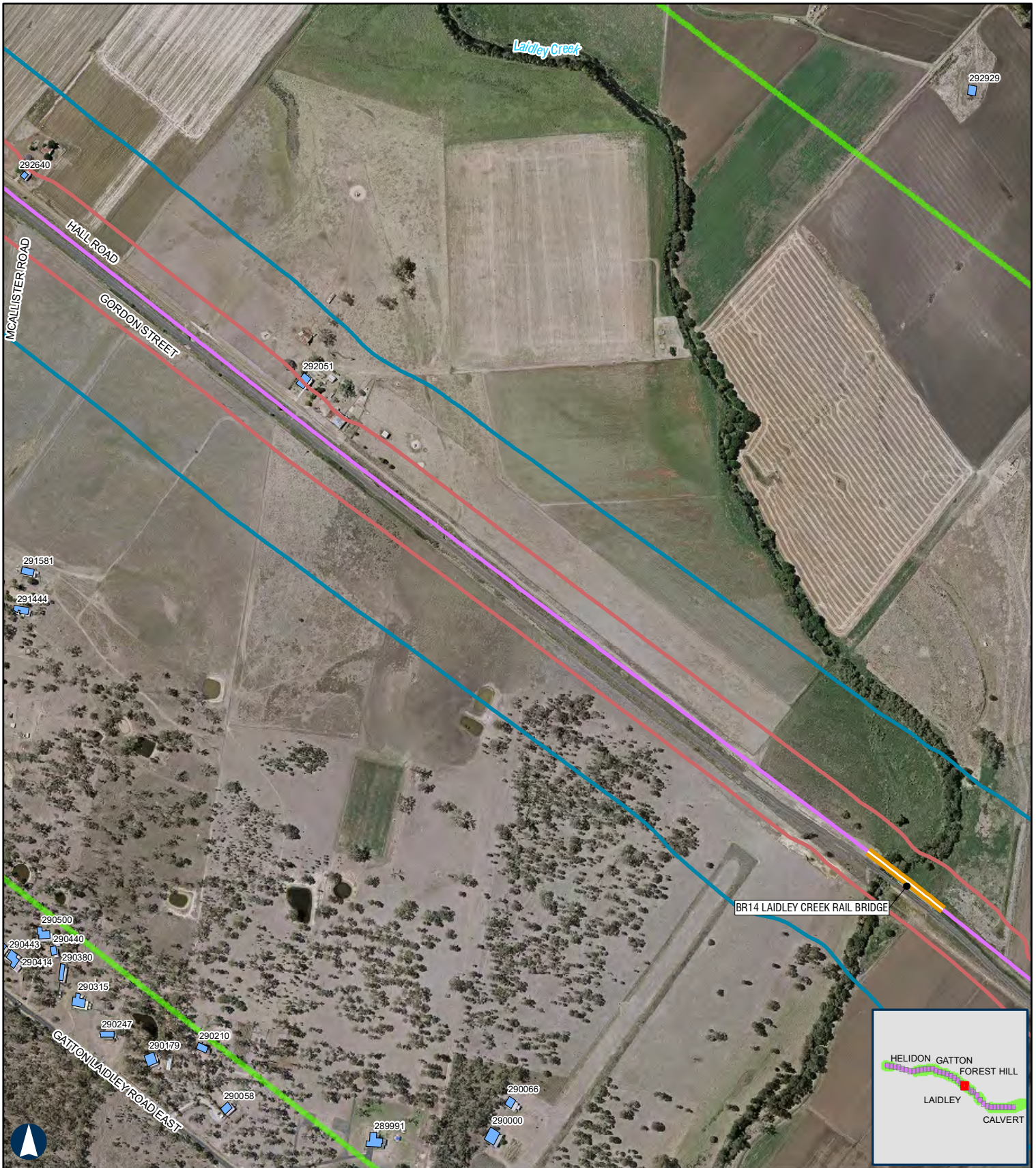
Noise contours are based on a set distance above the local terrain level of 2.4m.

- Daytime noise criteria LAeq15hr 60dBA New rail corridor
- Daytime noise criteria LAeq15hr 65dBA upgrading existing rail corridor
- Daytime noise criteria LA max 80dBA New rail corridor
- Daytime noise criteria LA max 85dBA upgrading existing rail corridor
- Receptors

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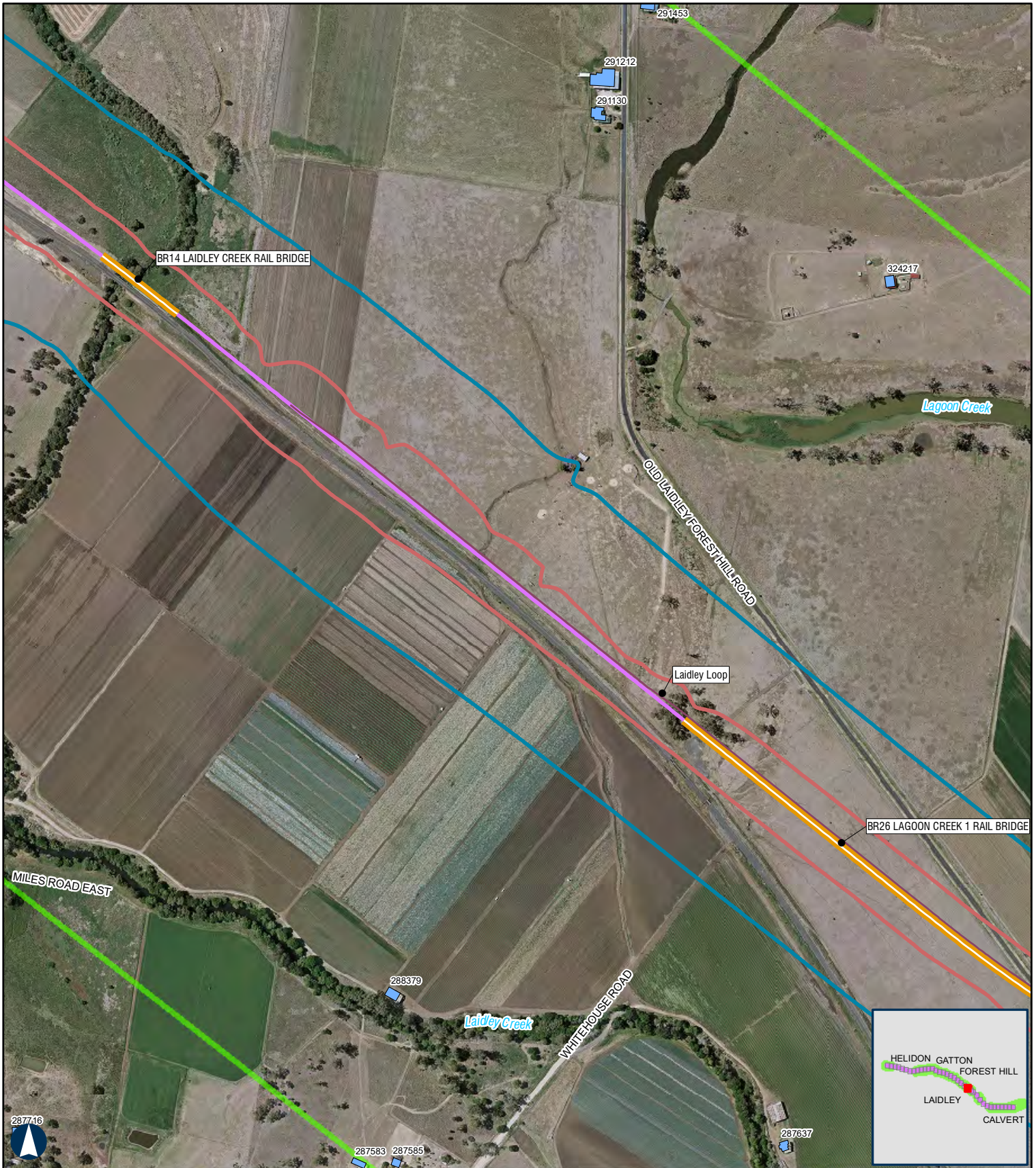
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<p><b>200 m</b></p> <p>Coordinate System: GDA 1994 MGA Zone 56</p> <p>ARTC makes no representation or warranty and assumes no duty of care or other responsibility to any party as to the completeness, accuracy or suitability of the information contained in this GIS map. The GIS map has been prepared from material provided to ARTC by an external source and ARTC has not taken any steps to verify the completeness, accuracy or suitability of that material.</p> <p>ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information contained within this GIS map.</p> <p>Paper: A4 Date: 23-Jun-2020 Author: JG</p>	<p> Level Crossings</p> <p> Project Extent</p> <p> Crossing Loops</p> <p> Rail Alignment/Centreline</p> <p> Bridges and Viaducts</p> <p> Little Liverpool Range tunnel</p> <p> Noise Assessment Area – Upgrading Existing Railway</p> <p>Noise contours are based on a set distance above the local terrain level of 2.4m.</p>	<p> Daytime noise criteria LAeq15hr 60dBA New rail corridor</p> <p> Daytime noise criteria LAeq15hr 65dBA upgrading existing rail corridor</p> <p> Daytime noise criteria LA max 80dBA New rail corridor</p> <p> Daytime noise criteria LA max 85dBA upgrading existing rail corridor</p> <p> Receptors</p>
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# HELIDON TO CALVERT Year 2040 Daytime rail noise levels

200 m

Coordinate System: GDA 1994 MGA Zone 56

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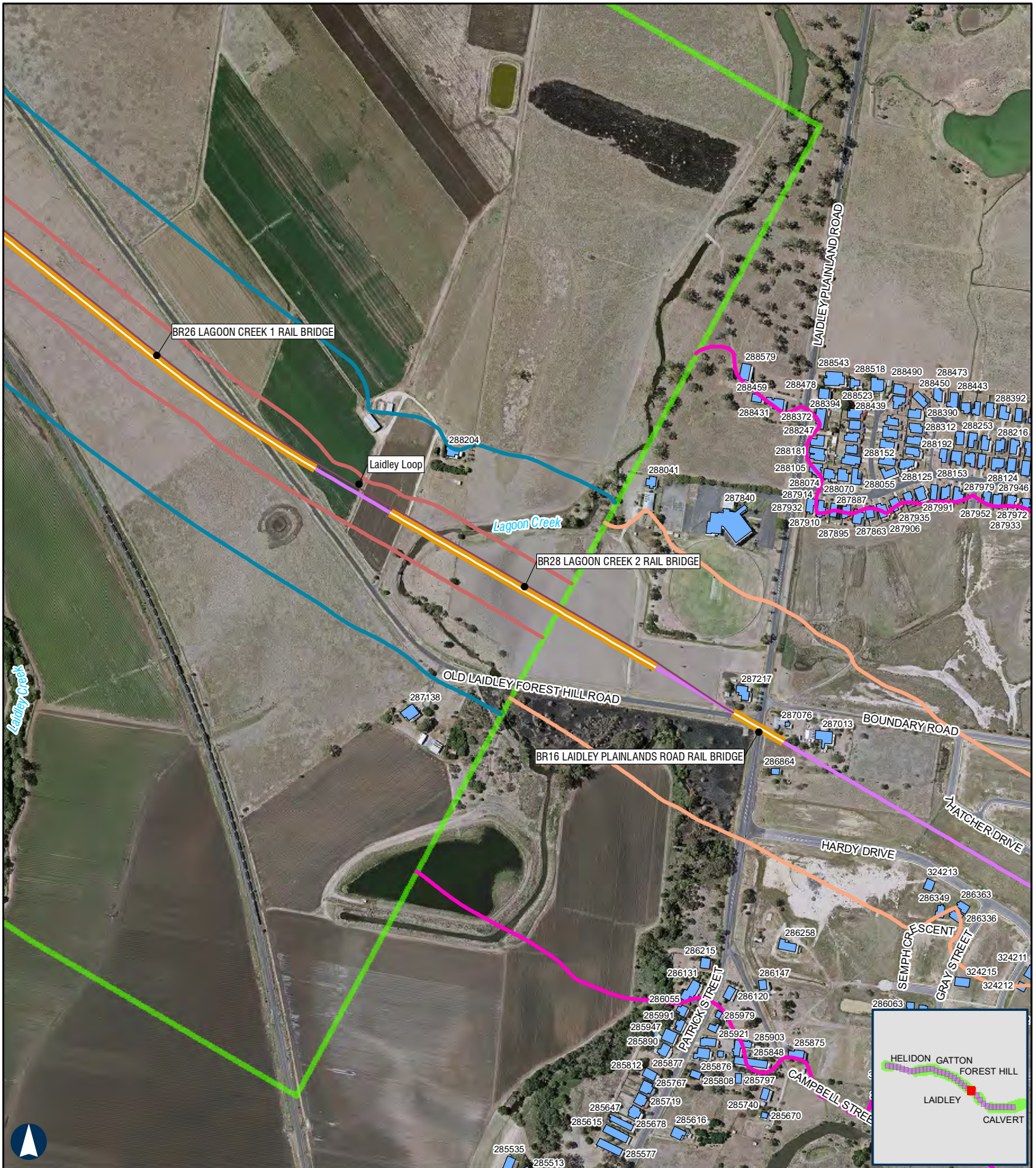
- Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
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- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway
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- Receptors

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# HELIDON TO CALVERT Year 2040 Daytime rail noise levels

200 m

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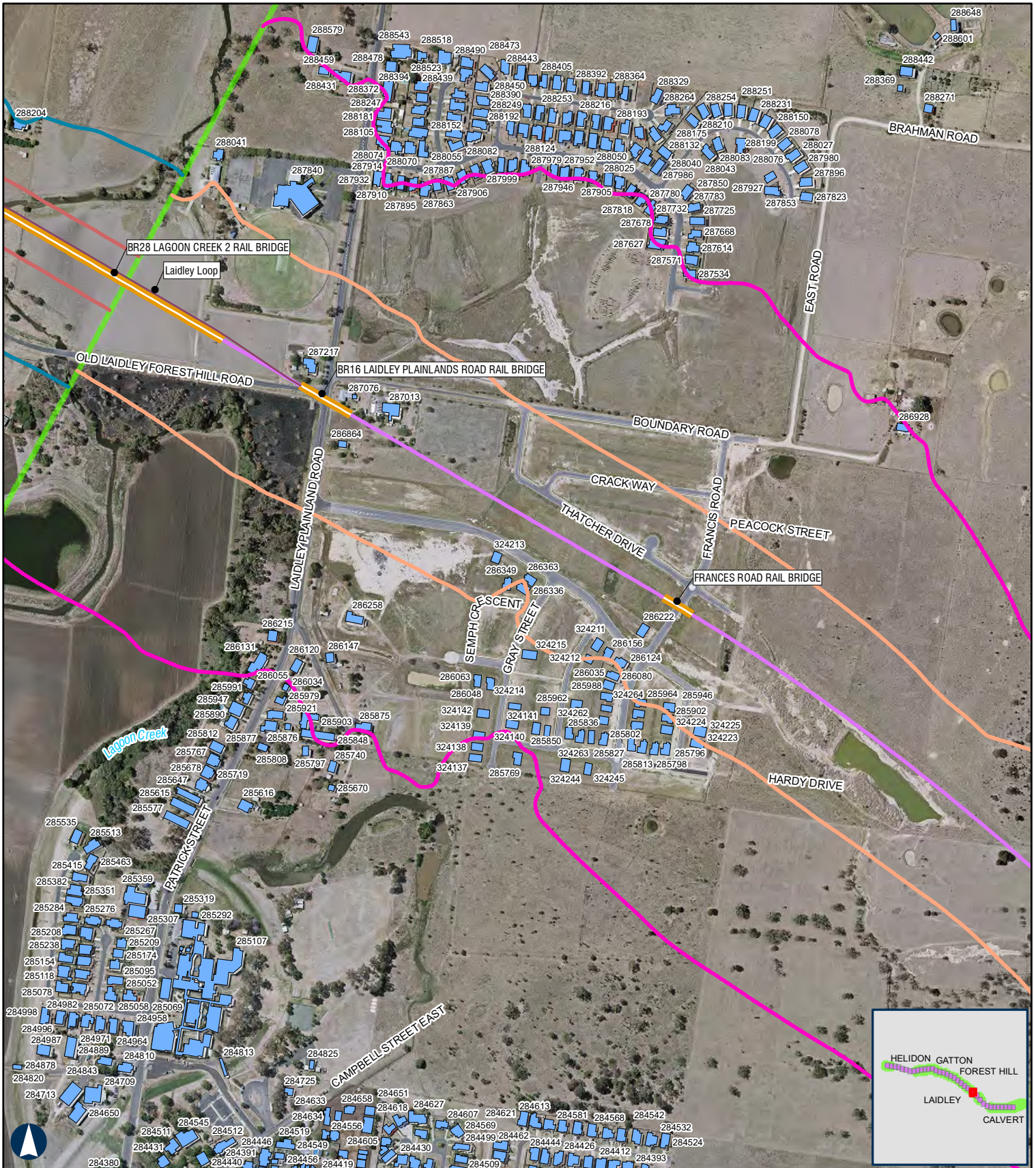
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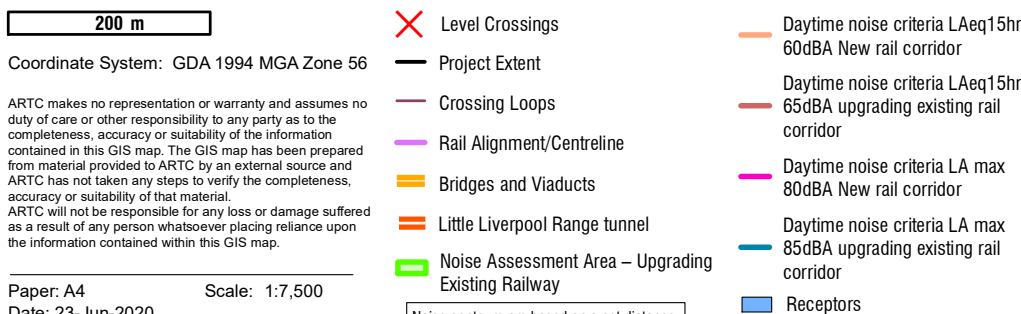
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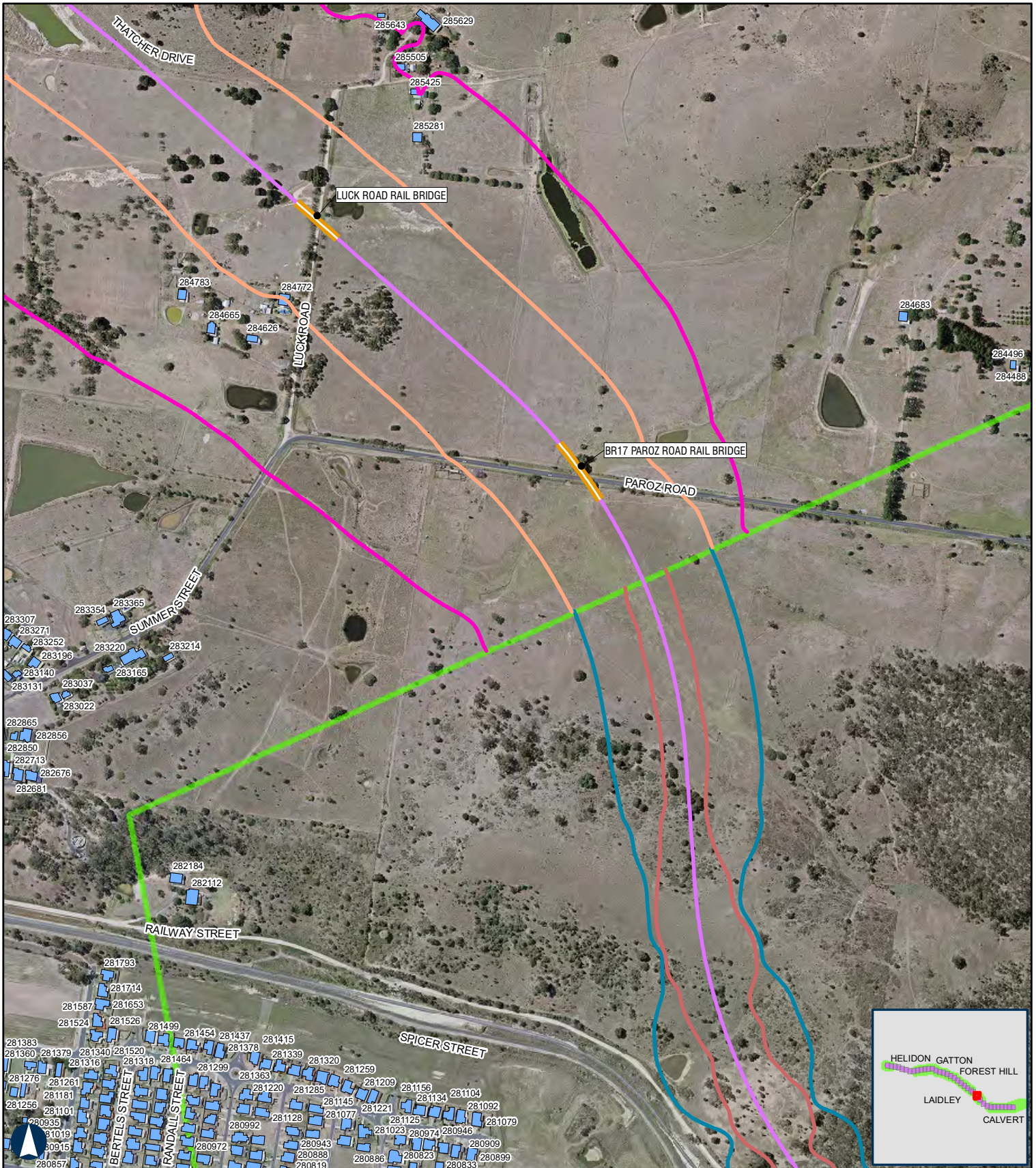
## HELIDON TO CALVERT Year 2040 Daytime rail noise levels

APPENDIX E - Map 25 of 36



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## HELIDON TO CALVERT Year 2040 Daytime rail noise levels

APPENDIX E - Map 26 of 36

200 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4  
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Author: JG

Scale: 1:7,500

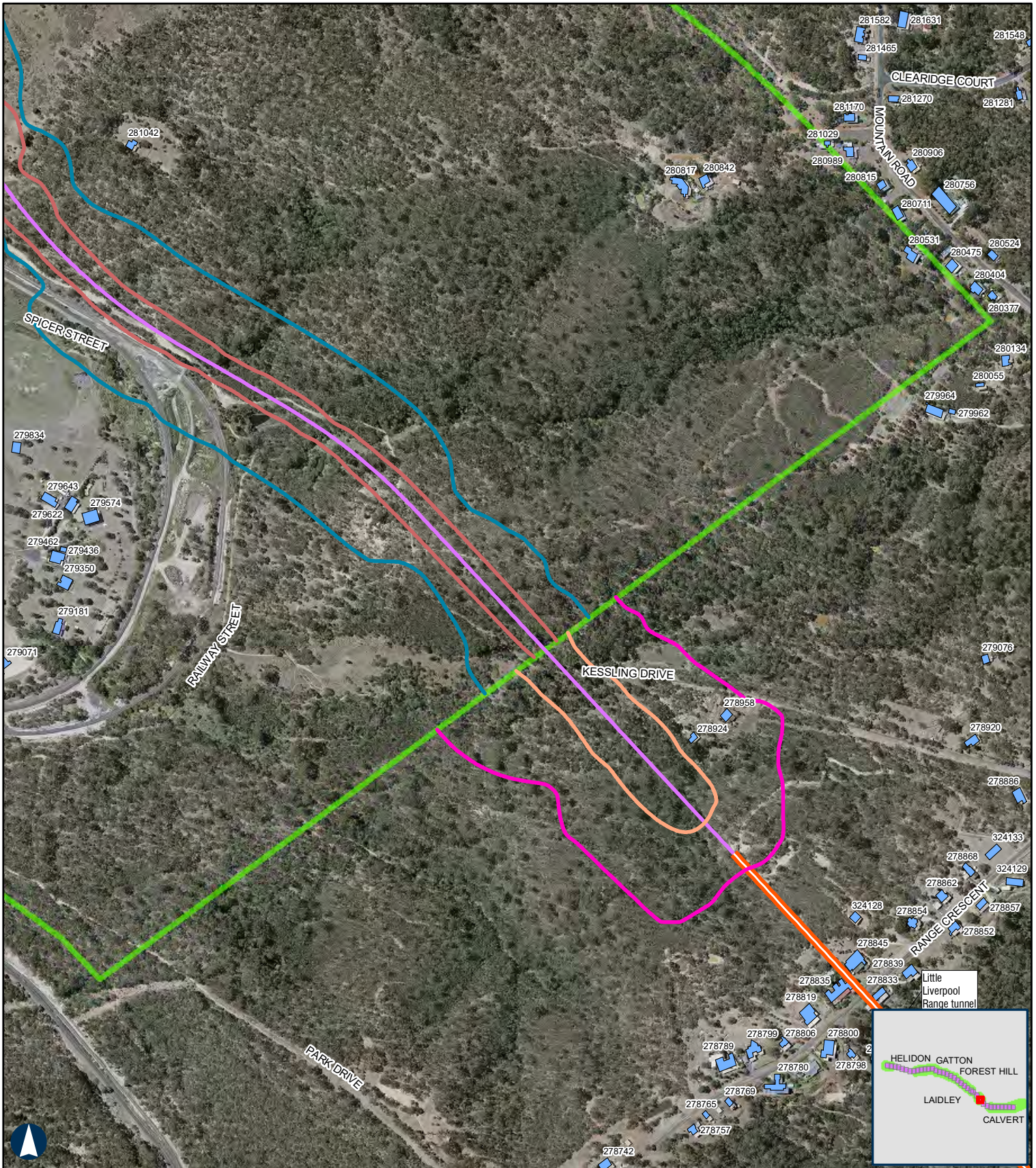
- Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway
- Daytime noise criteria LAeq15hr 60dBA New rail corridor
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# HELIDON TO CALVERT Year 2040 Daytime rail noise levels

200 m

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- Level Crossings
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- Rail Alignment/Centreline
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- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway

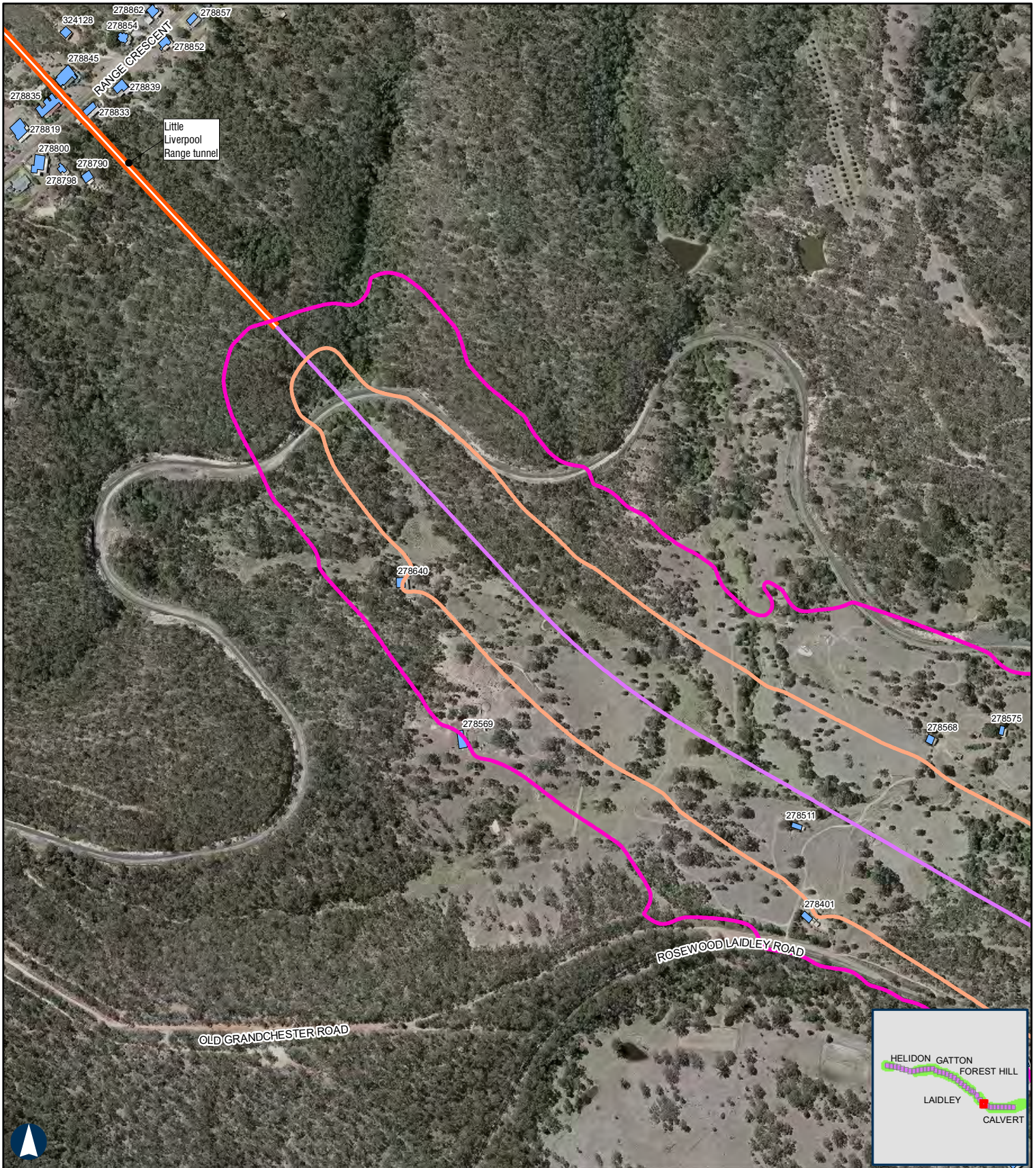
Noise contours are based on a set distance above the local terrain level of 2.4m.

- Daytime noise criteria LAeq15hr 60dBA New rail corridor
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# HELIDON TO CALVERT Year 2040 Daytime rail noise levels

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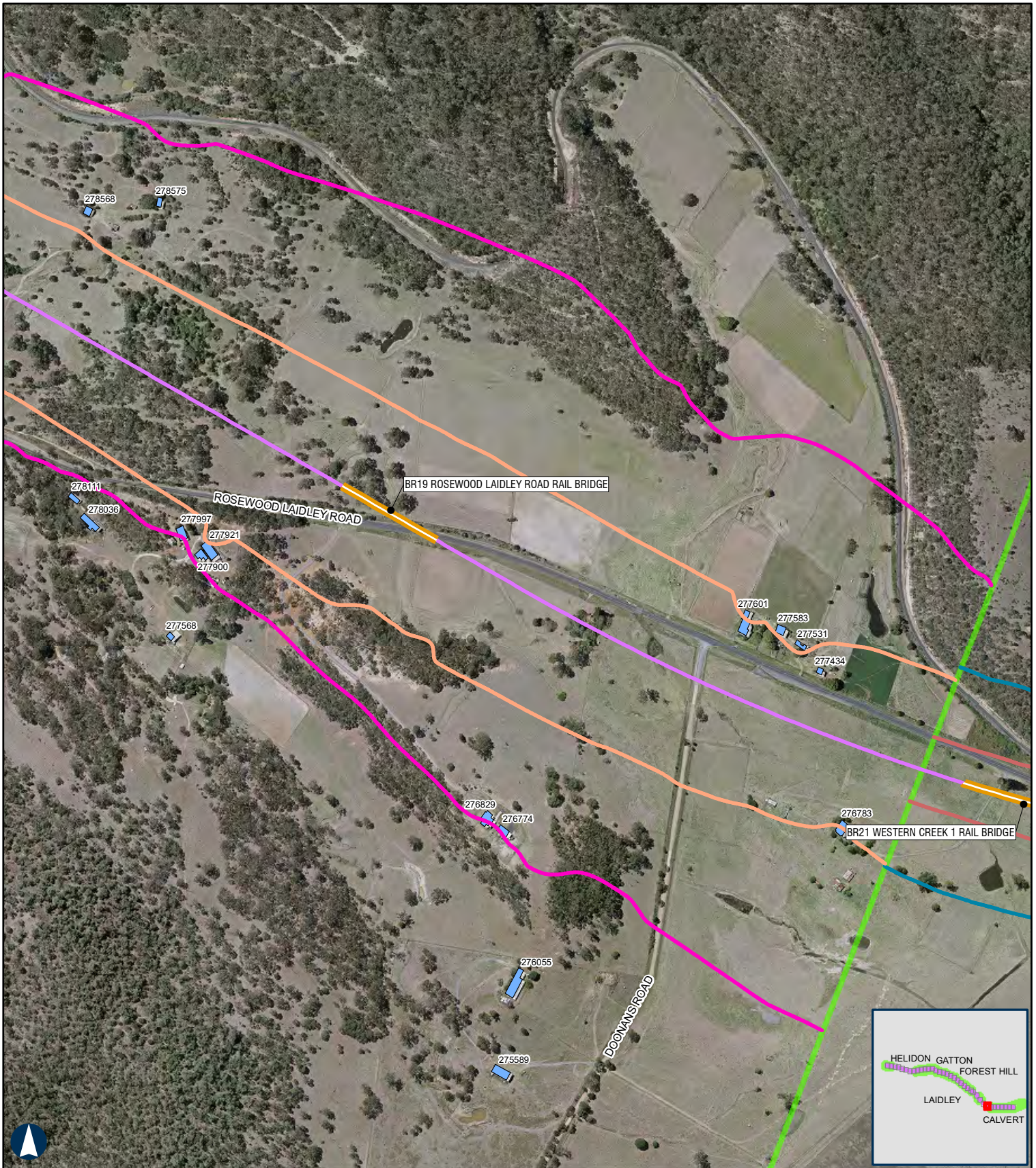
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- Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
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- Noise Assessment Area – Upgrading Existing Railway
- Receptors
- Daytime noise criteria LAeq15hr 60dBA New rail corridor
- Daytime noise criteria LAeq15hr 65dBA upgrading existing rail corridor
- Daytime noise criteria LA max 80dBA New rail corridor
- Daytime noise criteria LA max 85dBA upgrading existing rail corridor

Noise contours are based on a set distance above the local terrain level of 2.4m.

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# HELIDON TO CALVERT Year 2040 Daytime rail noise levels

200 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:7,500  
 Date: 23-Jun-2020  
 Author: JG

- Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway
- Daytime noise criteria LAeq15hr 60dBA New rail corridor
- Daytime noise criteria LAeq15hr 65dBA upgrading existing rail corridor
- Daytime noise criteria LA max 80dBA New rail corridor
- Daytime noise criteria LA max 85dBA upgrading existing rail corridor
- Receptors

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## HELIDON TO CALVERT Year 2040 Daytime rail noise levels

APPENDIX E - Map 30 of 36

200 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4  
Date: 23-Jun-2020  
Author: JG

Scale: 1:7,500

- ✕ Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway

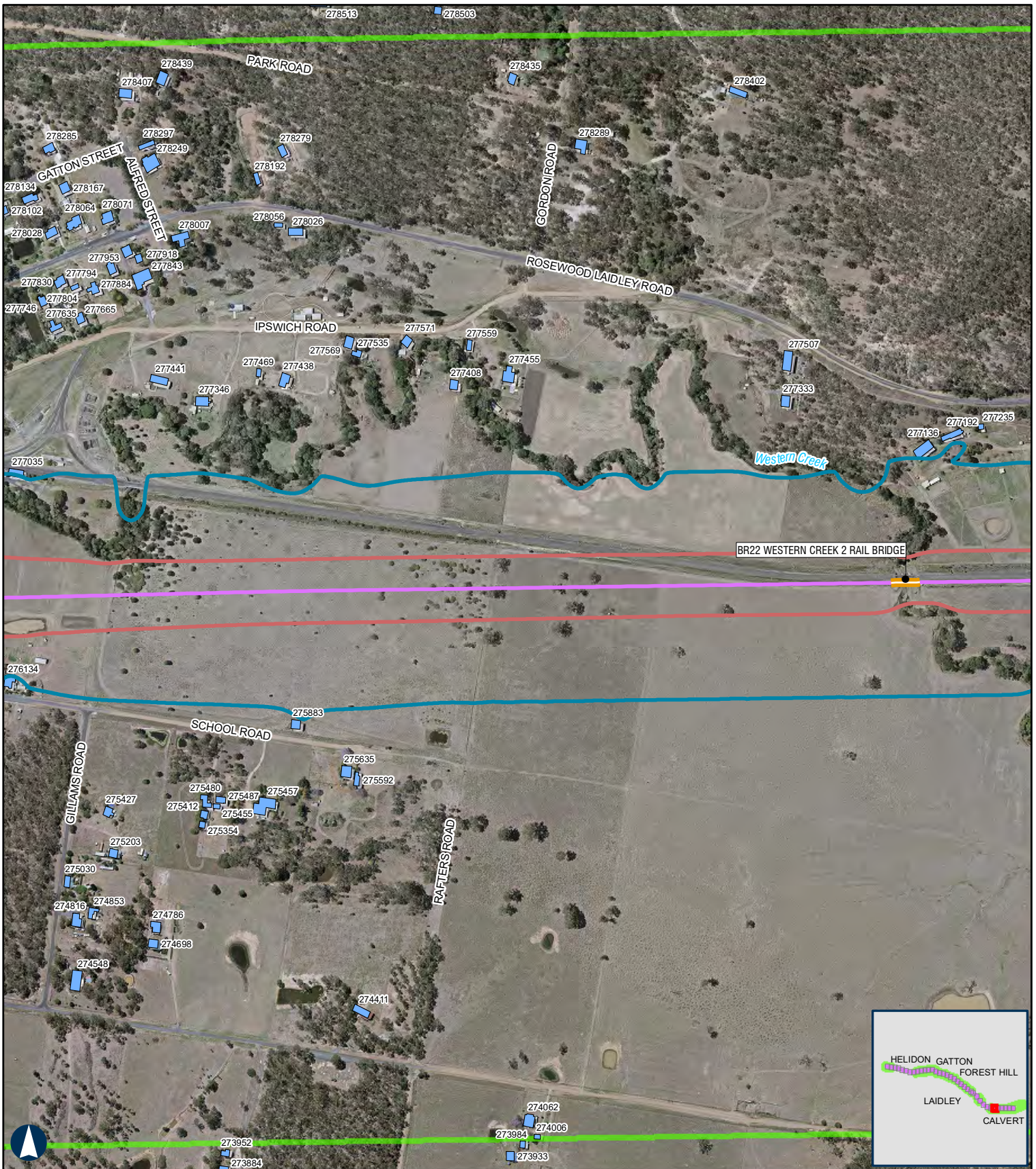
Noise contours are based on a set distance above the local terrain level of 2.4m.

- Daytime noise criteria LAeq15hr 60dBA New rail corridor
- Daytime noise criteria LAeq15hr 65dBA upgrading existing rail corridor
- Daytime noise criteria LA max 80dBA New rail corridor
- Daytime noise criteria LA max 85dBA upgrading existing rail corridor
- Receptors



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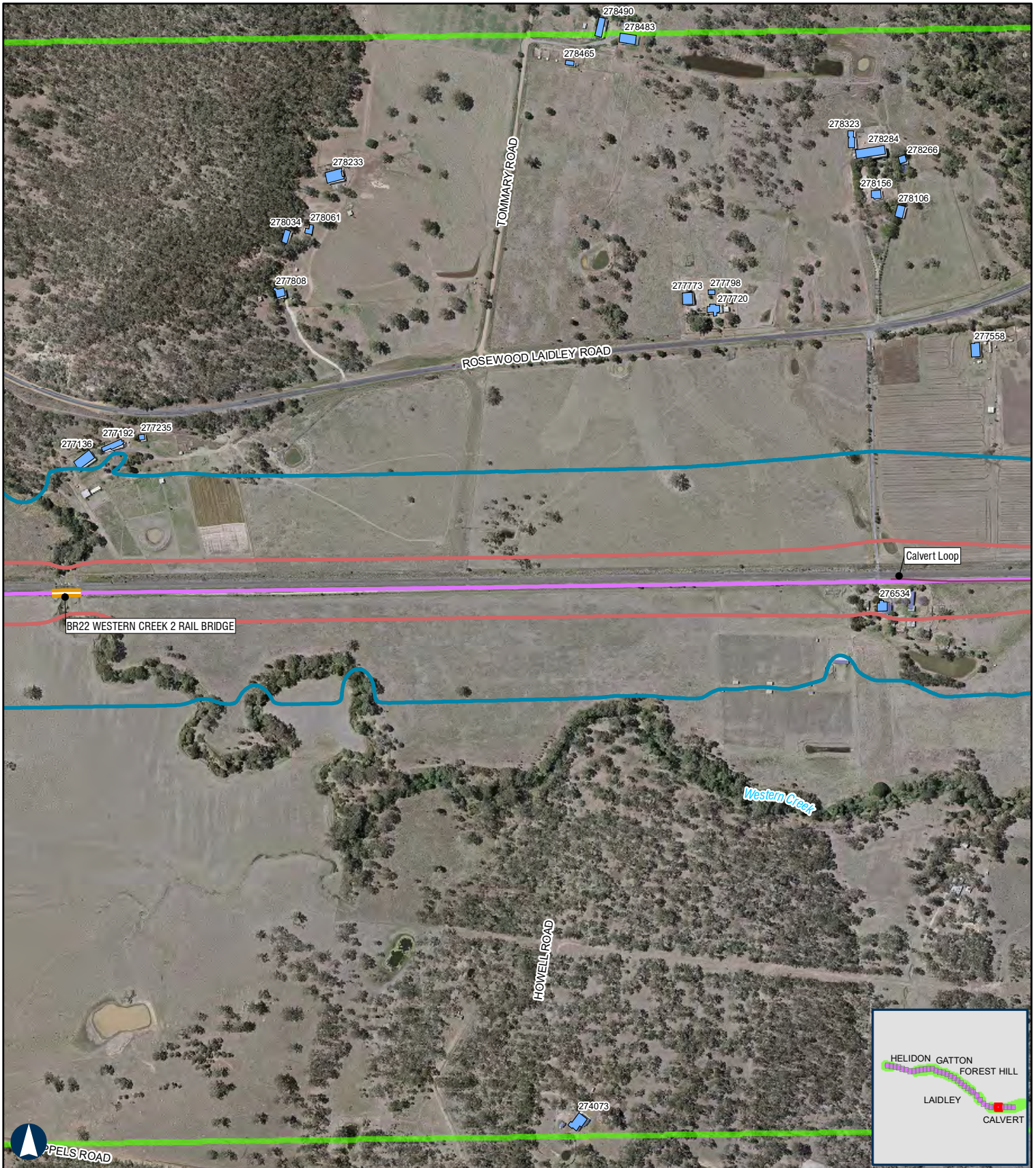
**HELIDON TO CALVERT** Year 2040 Daytime rail noise levels APPENDIX E - Map 31 of 36

<p><b>200 m</b></p> <p>Coordinate System: GDA 1994 MGA Zone 56</p> <p>ARTC makes no representation or warranty and assumes no duty of care or other responsibility to any party as to the completeness, accuracy or suitability of the information contained in this GIS map. The GIS map has been prepared from material provided to ARTC by an external source and ARTC has not taken any steps to verify the completeness, accuracy or suitability of that material.</p> <p>ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information contained within this GIS map.</p> <p>Paper: A4 Date: 23-Jun-2020 Author: JG</p>	<ul style="list-style-type: none"> <li> Level Crossings</li> <li> Project Extent</li> <li> Crossing Loops</li> <li> Rail Alignment/Centreline</li> <li> Bridges and Viaducts</li> <li> Little Liverpool Range tunnel</li> <li> Noise Assessment Area – Upgrading Existing Railway</li> </ul> <p>Noise contours are based on a set distance above the local terrain level of 2.4m.</p>	<ul style="list-style-type: none"> <li> Daytime noise criteria LAeq15hr 60dBA New rail corridor</li> <li> Daytime noise criteria LAeq15hr 65dBA upgrading existing rail corridor</li> <li> Daytime noise criteria LA max 80dBA New rail corridor</li> <li> Daytime noise criteria LA max 85dBA upgrading existing rail corridor</li> <li> Receptors</li> </ul>
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## HELIDON TO CALVERT Year 2040 Daytime rail noise levels

APPENDIX E - Map 32 of 36

200 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4  
Date: 23-Jun-2020  
Author: JG  
Scale: 1:7,500

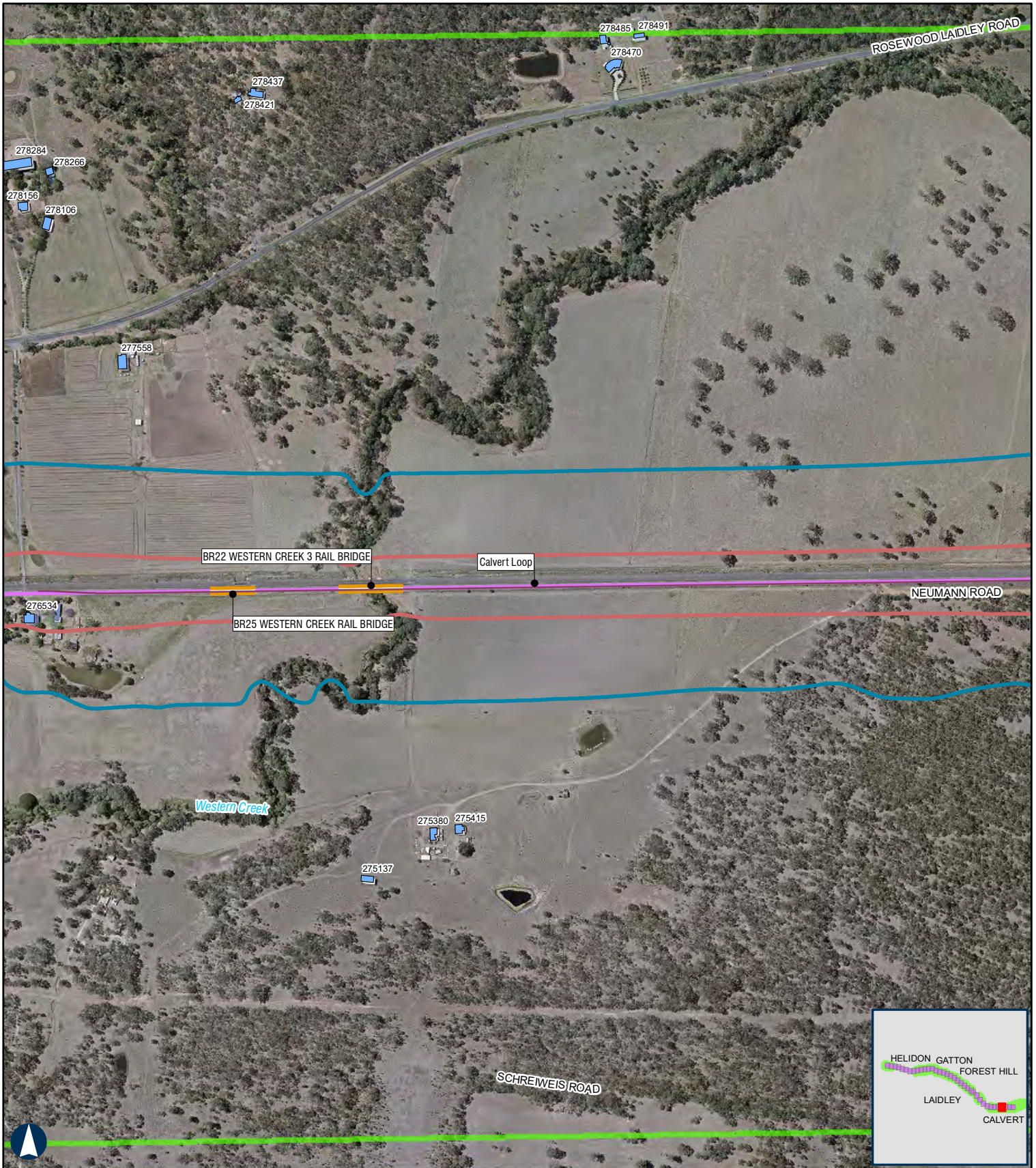
- ✕ Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway
- Daytime noise criteria LAeq15hr 60dBA New rail corridor
- Daytime noise criteria LAeq15hr 65dBA upgrading existing rail corridor
- Daytime noise criteria LA max 80dBA New rail corridor
- Daytime noise criteria LA max 85dBA upgrading existing rail corridor
- Receptors

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# HELIDON TO CALVERT Year 2040 Daytime rail noise levels

200 m

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Author: JG  
Scale: 1:7,500

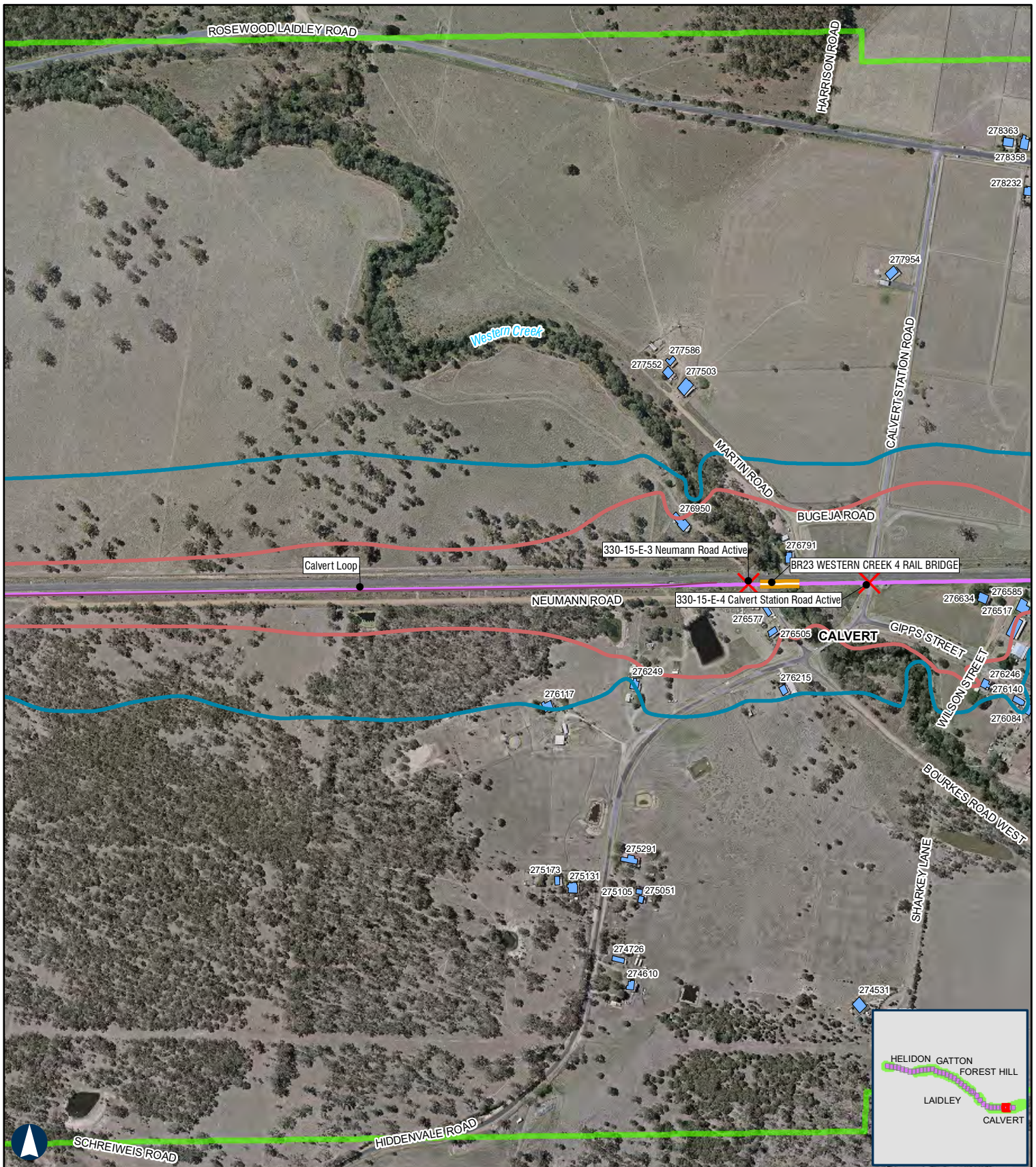
- ✗ Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway
- Daytime noise criteria LAeq15hr 60dBA New rail corridor
- Daytime noise criteria LAeq15hr 65dBA upgrading existing rail corridor
- Daytime noise criteria LA max 80dBA New rail corridor
- Daytime noise criteria LA max 85dBA upgrading existing rail corridor
- Receptors

Noise contours are based on a set distance above the local terrain level of 2.4m.



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## HELIDON TO CALVERT Year 2040 Daytime rail noise levels

APPENDIX E - Map 34 of 36

200 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:7,500  
 Date: 23-Jun-2020  
 Author: JG

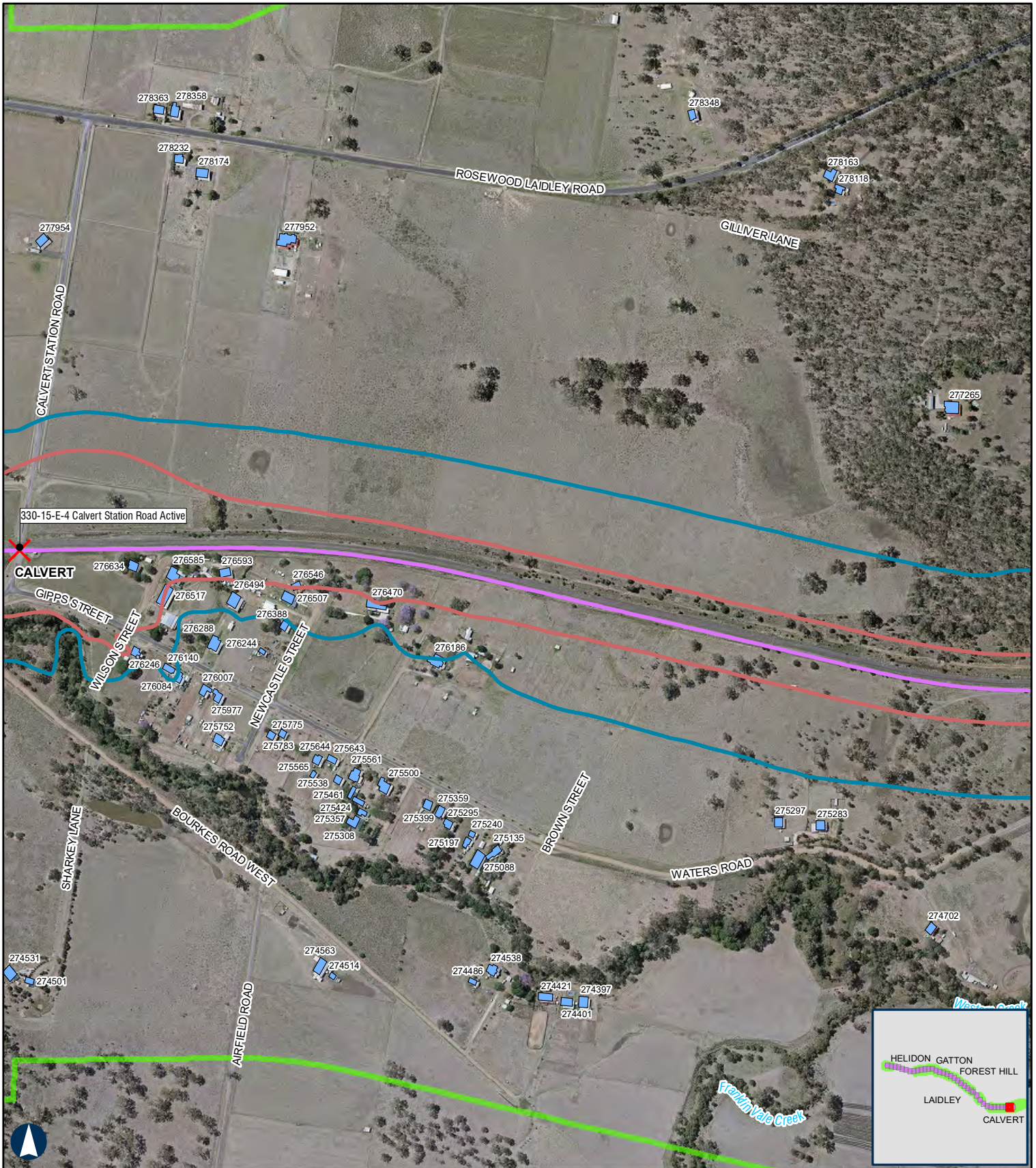
- ✗ Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway
- Daytime noise criteria LAeq15hr 60dBA New rail corridor
- Daytime noise criteria LAeq15hr 65dBA upgrading existing rail corridor
- Daytime noise criteria LA max 80dBA New rail corridor
- Daytime noise criteria LA max 85dBA upgrading existing rail corridor
- Receptors

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## HELIDON TO CALVERT Year 2040 Daytime rail noise levels

APPENDIX E - Map 35 of 36

200 m

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Paper: A4 Scale: 1:7,500  
 Date: 23-Jun-2020  
 Author: JG

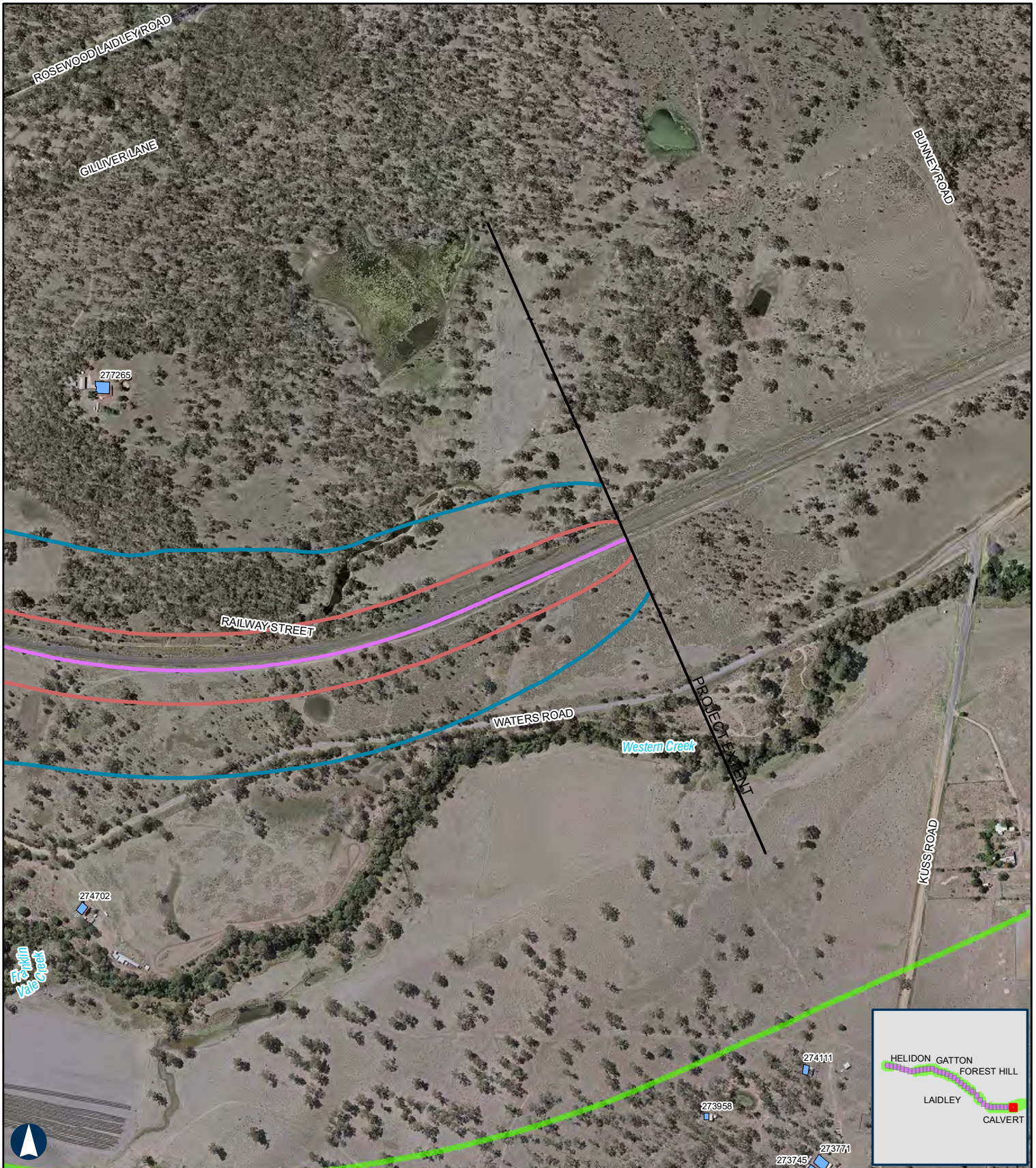
- Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway
- Daytime noise criteria LAeq15hr 60dBA New rail corridor
- Daytime noise criteria LAeq15hr 65dBA upgrading existing rail corridor
- Daytime noise criteria LA max 80dBA New rail corridor
- Daytime noise criteria LA max 85dBA upgrading existing rail corridor
- Receptors

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# HELIDON TO CALVERT Year 2040 Daytime rail noise levels

APPENDIX E - Map 36 of 36

200 m

Coordinate System: GDA 1994 MGA Zone 56

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 Author: JG

- Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway
- Receptors
- Daytime noise criteria LAeq15hr 60dBA New rail corridor
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# HELIDON TO CALVERT Year 2040 Night-time rail noise levels

APPENDIX E - Map 1 of 36

200 m

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Paper: A4 Date: 23-Jun-2020 Author: JG Scale: 1:7,500

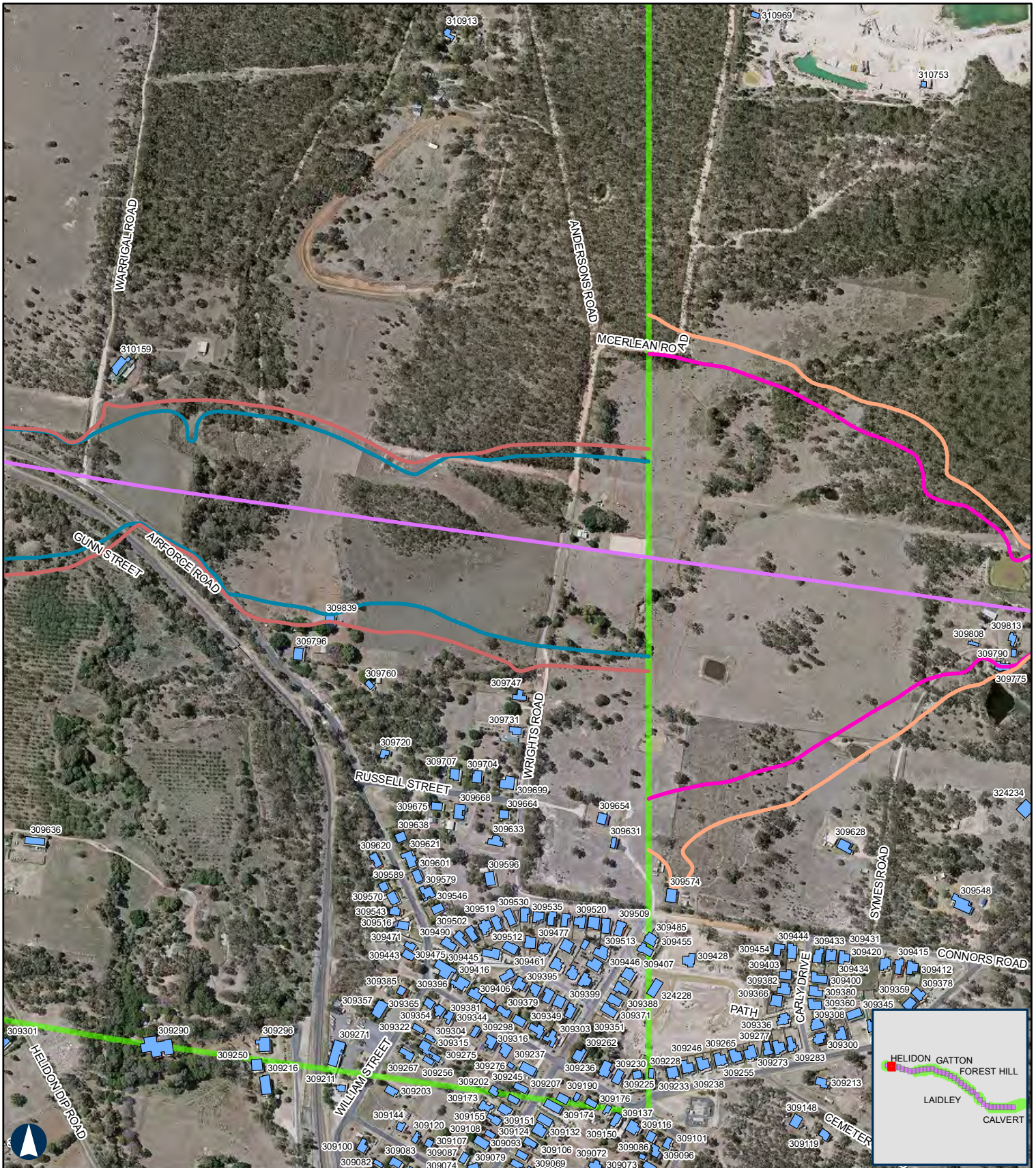
- Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway
- Night-time noise criteria LAeq9hr 55dBA New rail corridor
- Night-time noise criteria LAeq9hr 60dBA Redevelopment existing rail corridor
- Night-time noise criteria LA max 80dBA New rail corridor
- Night-time noise criteria LA max 85dBA Redevelopment existing rail corridor
- Receptors

Noise contours are based on a set distance above the local terrain level of 2.4m.



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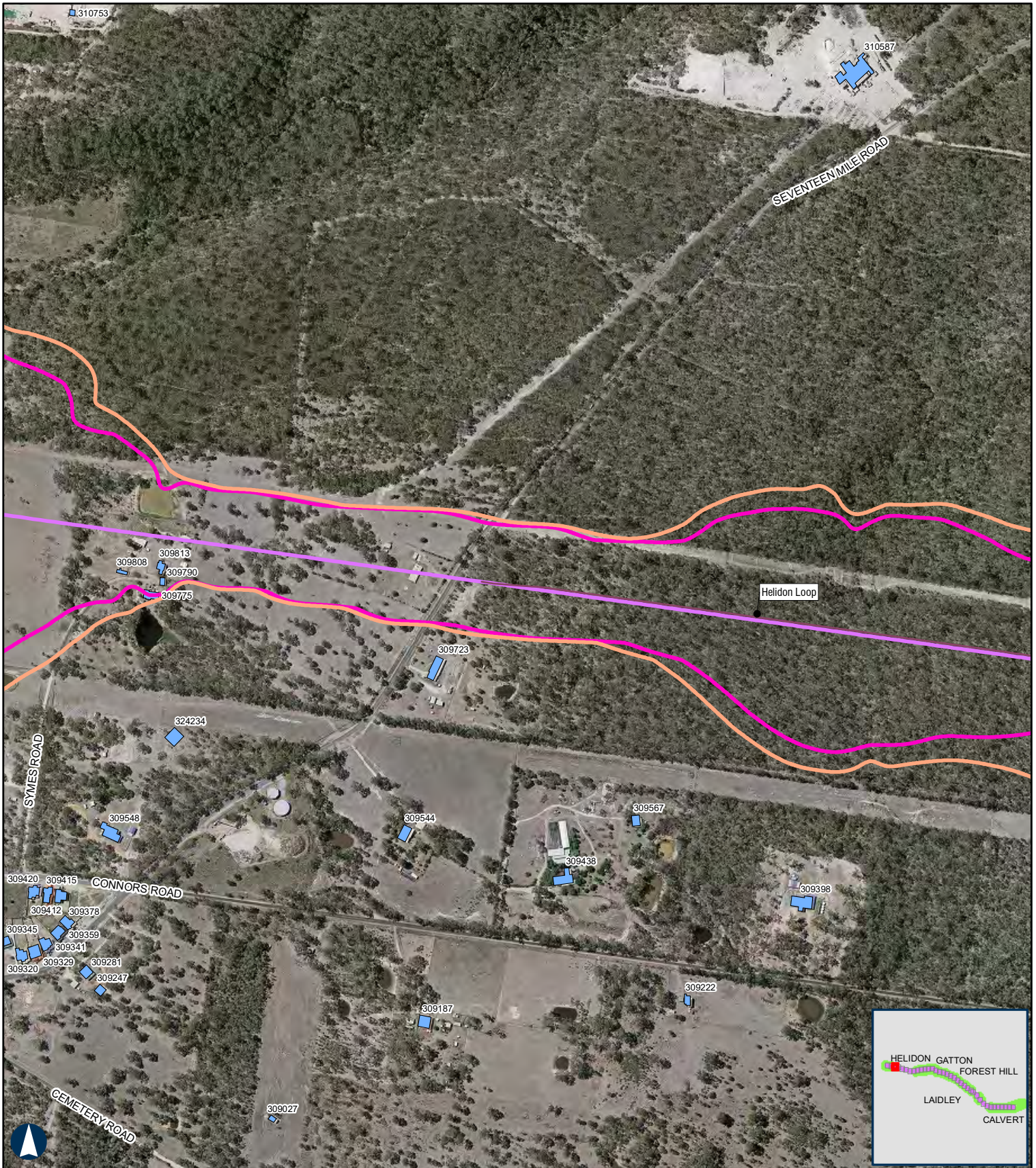


**HELIDON TO CALVERT** Year 2040 Night-time rail noise levels APPENDIX E - Map 2 of 36

<p><b>200 m</b></p> <p>Coordinate System: GDA 1994 MGA Zone 56</p> <p>ARTC makes no representation or warranty and assumes no duty of care or other responsibility to any party as to the completeness, accuracy or suitability of the information contained in this GIS map. The GIS map has been prepared from material provided to ARTC by an external source and ARTC has not taken any steps to verify the completeness, accuracy or suitability of that material.</p> <p>ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information contained within this GIS map.</p> <p>Paper: A4 <span style="float: right;">Scale: 1:7,500</span>          Date: 23-Jun-2020          Author: JG</p>	<ul style="list-style-type: none"> <li><span style="color: red; font-size: 2em;">X</span> Level Crossings</li> <li><span style="border-bottom: 2px solid black; width: 20px; display: inline-block;"></span> Project Extent</li> <li><span style="border-bottom: 2px solid brown; width: 20px; display: inline-block;"></span> Crossing Loops</li> <li><span style="border-bottom: 2px solid purple; width: 20px; display: inline-block;"></span> Rail Alignment/Centreline</li> <li><span style="border-bottom: 2px solid orange; width: 20px; display: inline-block;"></span> Bridges and Viaducts</li> <li><span style="border-bottom: 2px solid red; width: 20px; display: inline-block;"></span> Little Liverpool Range tunnel</li> <li><span style="border: 2px solid green; width: 20px; display: inline-block;"></span> Noise Assessment Area – Upgrading Existing Railway</li> </ul>	<ul style="list-style-type: none"> <li><span style="border-bottom: 2px solid orange; width: 20px; display: inline-block;"></span> Night-time noise criteria LAeq9hr 55dBA New rail corridor</li> <li><span style="border-bottom: 2px solid red; width: 20px; display: inline-block;"></span> Night-time noise criteria LAeq9hr 60dBA Redevelopment existing rail corridor</li> <li><span style="border-bottom: 2px solid magenta; width: 20px; display: inline-block;"></span> Night-time noise criteria LA max 80dBA New rail corridor</li> <li><span style="border-bottom: 2px solid blue; width: 20px; display: inline-block;"></span> Night-time noise criteria LA max 85dBA Redevelopment existing rail corridor</li> <li><span style="color: blue; font-size: 1.5em;">■</span> Receptors</li> </ul>	<p>Noise contours are based on a set distance above the local terrain level of 2.4m.</p>
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# HELIDON TO CALVERT Year 2040 Night-time rail noise levels

APPENDIX E - Map 3 of 36

200 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:7,500  
 Date: 23-Jun-2020  
 Author: JG

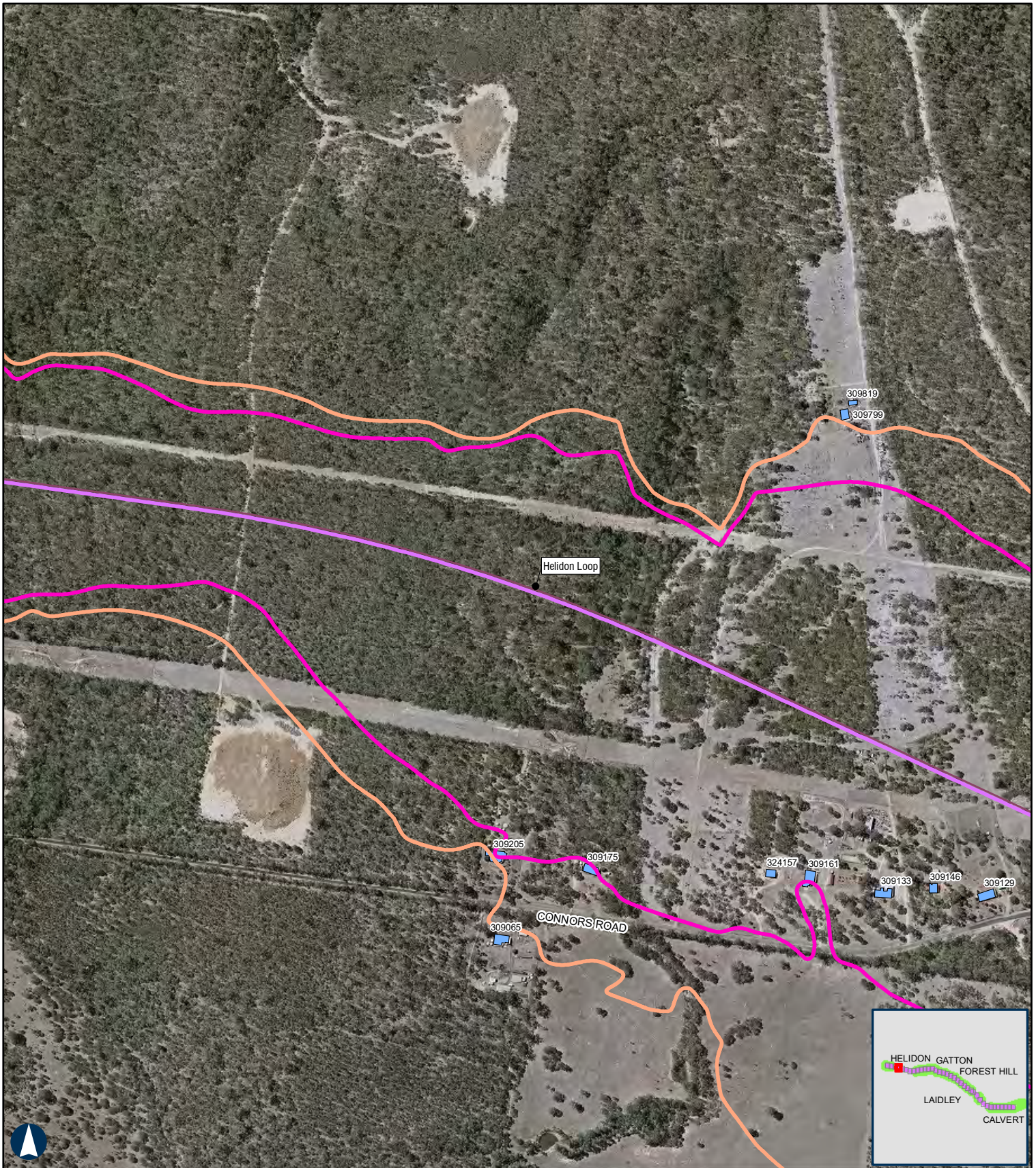
- Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway
- Receptors
- Night-time noise criteria LAeq9hr 55dBA New rail corridor
- Night-time noise criteria LAeq9hr 60dBA Redevelopment existing rail corridor
- Night-time noise criteria LA max 80dBA New rail corridor
- Night-time noise criteria LA max 85dBA Redevelopment existing rail corridor

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## HELIDON TO CALVERT Year 2040 Night-time rail noise levels

APPENDIX E - Map 4 of 36

200 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4  
Date: 23-Jun-2020  
Author: JG

Scale: 1:7,500

- Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway

Noise contours are based on a set distance above the local terrain level of 2.4m.

- Night-time noise criteria LAeq9hr 55dBA New rail corridor
- Night-time noise criteria LAeq9hr 60dBA Redevelopment existing rail corridor
- Night-time noise criteria LA max 80dBA New rail corridor
- Night-time noise criteria LA max 85dBA Redevelopment existing rail corridor
- Receptors

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# HELIDON TO CALVERT Year 2040 Night-time rail noise levels

200 m

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 Author: JG

- Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway
- Night-time noise criteria LAeq9hr 55dBA New rail corridor
- Night-time noise criteria LAeq9hr 60dBA Redevelopment existing rail corridor
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- Night-time noise criteria LA max 85dBA Redevelopment existing rail corridor
- Receptors

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# HELIDON TO CALVERT Year 2040 Night-time rail noise levels

200 m

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Date: 23-Jun-2020  
Author: JG  
Scale: 1:7,500

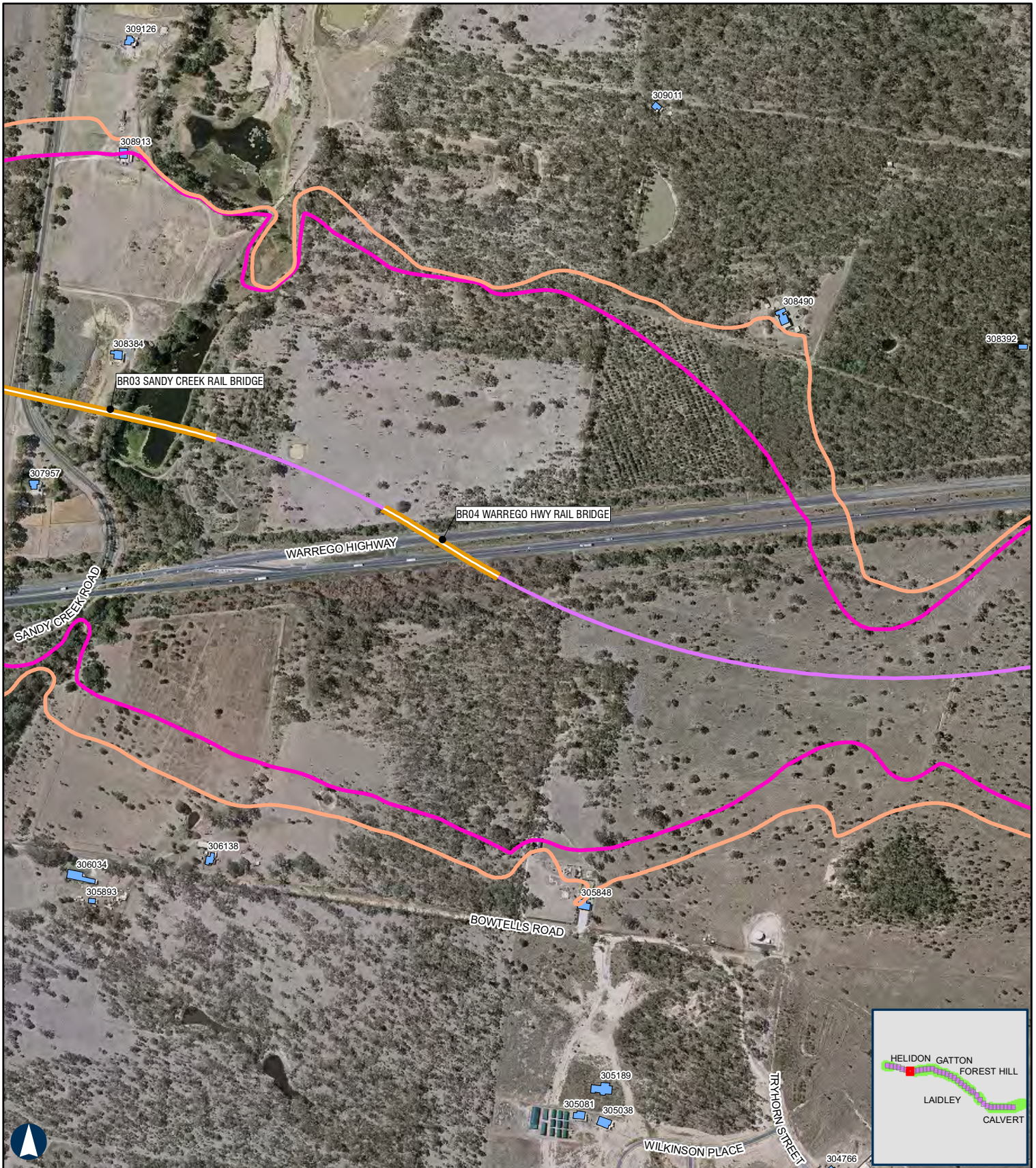
- Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway
- Night-time noise criteria LAeq9hr 55dBA New rail corridor
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- Receptors

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# HELIDON TO CALVERT Year 2040 Night-time rail noise levels

200 m

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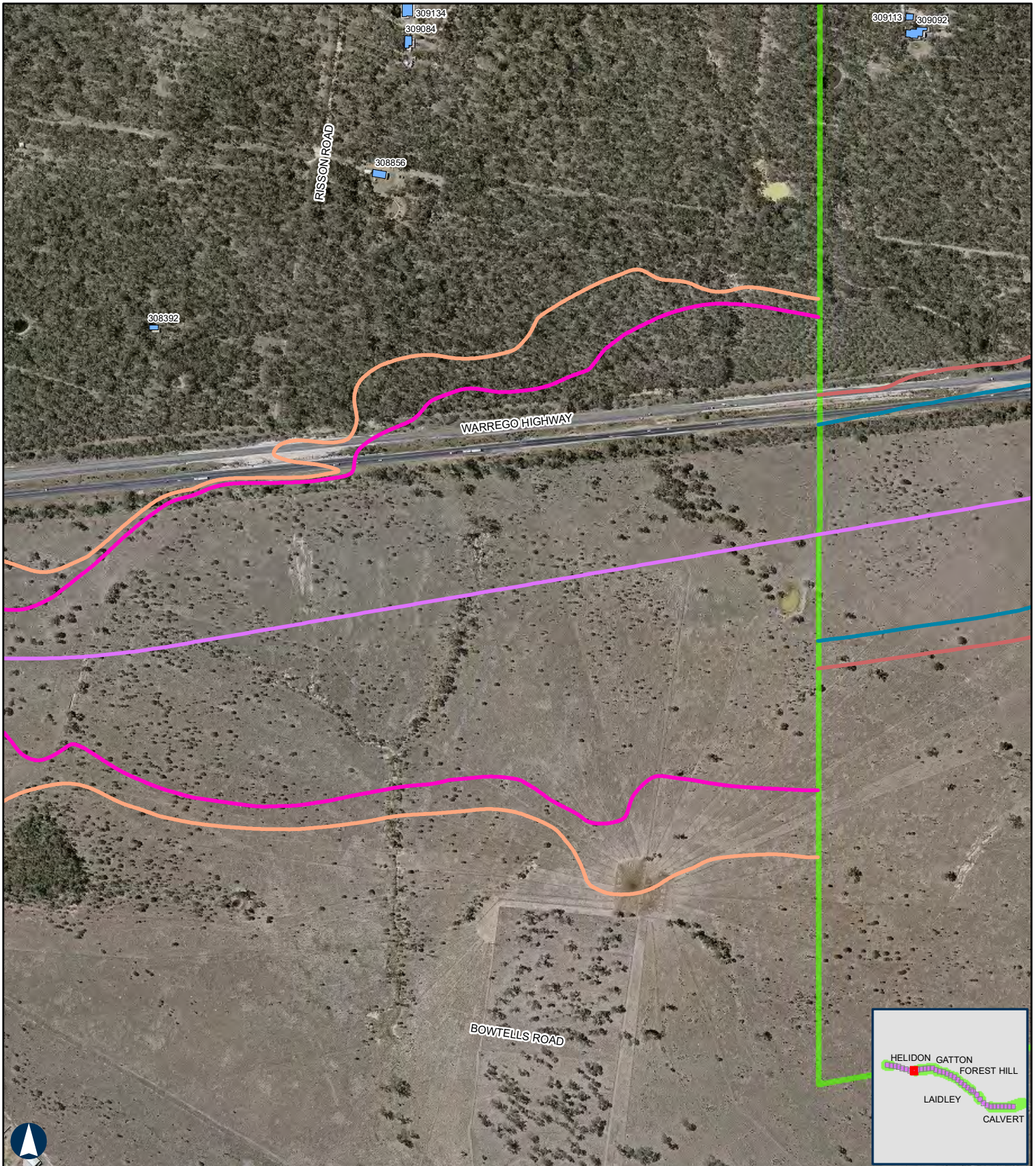
- Level Crossings
- Project Extent
- Crossing Loops
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- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway
- Night-time noise criteria LAeq9hr 55dBA New rail corridor
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- Night-time noise criteria LA max 85dBA Redevelopment existing rail corridor
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# HELIDON TO CALVERT Year 2040 Night-time rail noise levels

200 m

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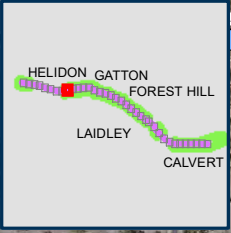
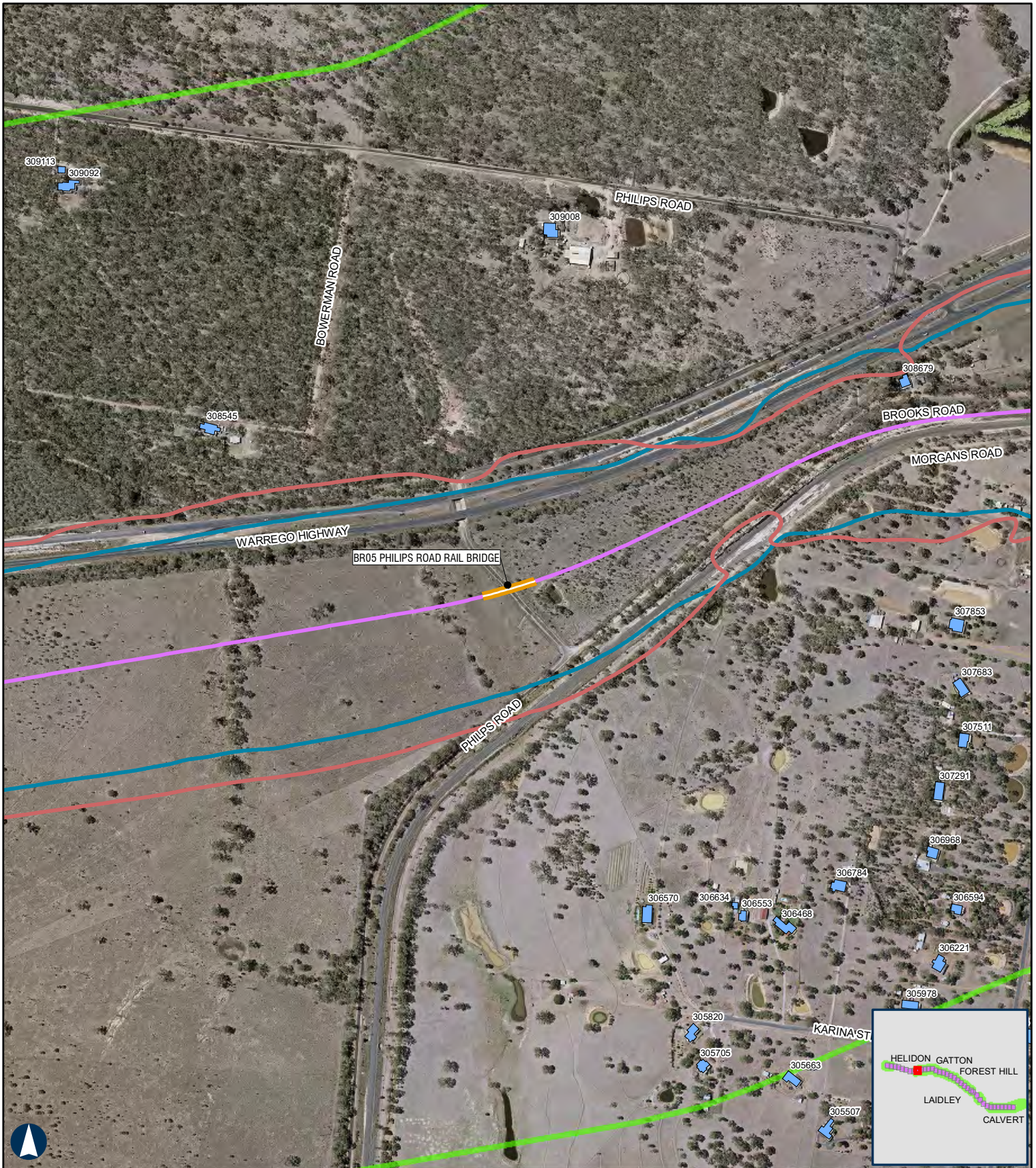
- Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway
- Night-time noise criteria LAeq9hr 55dBA New rail corridor
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- Night-time noise criteria LA max 85dBA Redevelopment existing rail corridor
- Receptors

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## HELIDON TO CALVERT Year 2040 Night-time rail noise levels

APPENDIX E - Map 9 of 36

200 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:7,500  
 Date: 23-Jun-2020  
 Author: JG

- Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway
- Night-time noise criteria LAeq9hr 55dBA New rail corridor
- Night-time noise criteria LAeq9hr 60dBA Redevelopment existing rail corridor
- Night-time noise criteria LA max 80dBA New rail corridor
- Night-time noise criteria LA max 85dBA Redevelopment existing rail corridor
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## HELIDON TO CALVERT Year 2040 Night-time rail noise levels

APPENDIX E - Map 10 of 36

200 m

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Paper: A4  
Date: 23-Jun-2020  
Author: JG

Scale: 1:7,500

- Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway
- Night-time noise criteria LAeq9hr 55dBA New rail corridor
- Night-time noise criteria LAeq9hr 60dBA Redevelopment existing rail corridor
- Night-time noise criteria LA max 80dBA New rail corridor
- Night-time noise criteria LA max 85dBA Redevelopment existing rail corridor
- Receptors

Noise contours are based on a set distance above the local terrain level of 2.4m.

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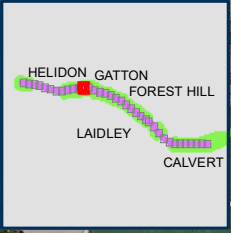
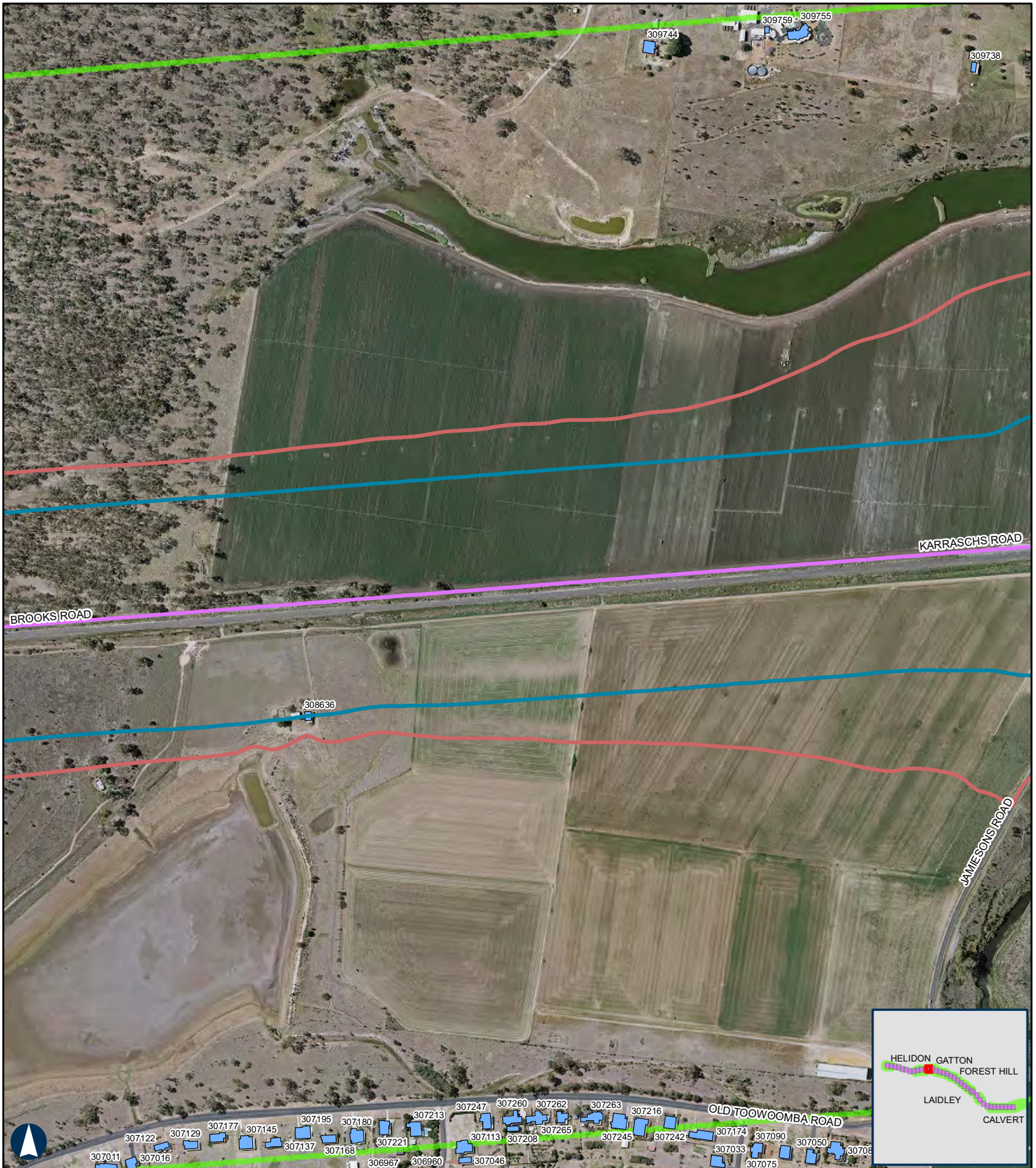


**HELIDON TO CALVERT** Year 2040 Night-time rail noise levels APPENDIX E - Map 11 of 36

<p><b>200 m</b></p> <p>Coordinate System: GDA 1994 MGA Zone 56</p> <p>ARTC makes no representation or warranty and assumes no duty of care or other responsibility to any party as to the completeness, accuracy or suitability of the information contained in this GIS map. The GIS map has been prepared from material provided to ARTC by an external source and ARTC has not taken any steps to verify the completeness, accuracy or suitability of that material.</p> <p>ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information contained within this GIS map.</p> <p>Paper: A4      Scale: 1:7,500          Date: 23-Jun-2020          Author: JG</p>	<ul style="list-style-type: none"> <li><span style="color: red; font-size: 2em;">X</span> Level Crossings</li> <li><span style="border-bottom: 2px solid black; width: 20px; display: inline-block;"></span> Project Extent</li> <li><span style="border-bottom: 2px solid purple; width: 20px; display: inline-block;"></span> Crossing Loops</li> <li><span style="border-bottom: 2px solid purple; width: 20px; display: inline-block;"></span> Rail Alignment/Centreline</li> <li><span style="border-bottom: 2px solid orange; width: 20px; display: inline-block;"></span> Bridges and Viaducts</li> <li><span style="border-bottom: 2px solid orange; width: 20px; display: inline-block;"></span> Little Liverpool Range tunnel</li> <li><span style="border-bottom: 2px solid green; width: 20px; display: inline-block;"></span> Noise Assessment Area – Upgrading Existing Railway</li> </ul>	<ul style="list-style-type: none"> <li><span style="border-bottom: 2px solid orange; width: 20px; display: inline-block;"></span> Night-time noise criteria LAeq9hr 55dBA New rail corridor</li> <li><span style="border-bottom: 2px solid red; width: 20px; display: inline-block;"></span> Night-time noise criteria LAeq9hr 60dBA Redevelopment existing rail corridor</li> <li><span style="border-bottom: 2px solid blue; width: 20px; display: inline-block;"></span> Night-time noise criteria LA max 80dBA New rail corridor</li> <li><span style="border-bottom: 2px solid blue; width: 20px; display: inline-block;"></span> Night-time noise criteria LA max 85dBA Redevelopment existing rail corridor</li> <li><span style="border: 1px solid blue; width: 10px; height: 10px; display: inline-block;"></span> Receptors</li> </ul>	<p>Noise contours are based on a set distance above the local terrain level of 2.4m.</p>
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**HELIDON TO CALVERT** Year 2040 Night-time rail noise levels APPENDIX E - Map 12 of 36

<p><b>200 m</b></p> <p>Coordinate System: GDA 1994 MGA Zone 56</p> <p>ARTC makes no representation or warranty and assumes no duty of care or other responsibility to any party as to the completeness, accuracy or suitability of the information contained in this GIS map. The GIS map has been prepared from material provided to ARTC by an external source and ARTC has not taken any steps to verify the completeness, accuracy or suitability of that material.</p> <p>ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information contained within this GIS map.</p> <p>Paper: A4      Scale: 1:7,500          Date: 23-Jun-2020          Author: JG</p>	<ul style="list-style-type: none"> <li><span style="color: red;">✗</span> Level Crossings</li> <li><span style="border-bottom: 1px solid black; width: 20px; display: inline-block;"></span> Project Extent</li> <li><span style="border-bottom: 1px solid brown; width: 20px; display: inline-block;"></span> Crossing Loops</li> <li><span style="border-bottom: 1px solid purple; width: 20px; display: inline-block;"></span> Rail Alignment/Centreline</li> <li><span style="border-bottom: 1px solid orange; width: 20px; display: inline-block;"></span> Bridges and Viaducts</li> <li><span style="border-bottom: 1px solid brown; width: 20px; display: inline-block;"></span> Little Liverpool Range tunnel</li> <li><span style="border-bottom: 1px solid green; width: 20px; display: inline-block;"></span> Noise Assessment Area – Upgrading Existing Railway</li> </ul> <p style="border: 1px solid black; padding: 2px; font-size: small;">Noise contours are based on a set distance above the local terrain level of 2.4m.</p>	<ul style="list-style-type: none"> <li><span style="border-bottom: 1px solid orange; width: 20px; display: inline-block;"></span> Night-time noise criteria LAeq9hr 55dBA New rail corridor</li> <li><span style="border-bottom: 1px solid red; width: 20px; display: inline-block;"></span> Night-time noise criteria LAeq9hr 60dBA Redevelopment existing rail corridor</li> <li><span style="border-bottom: 1px solid purple; width: 20px; display: inline-block;"></span> Night-time noise criteria LA max 80dBA New rail corridor</li> <li><span style="border-bottom: 1px solid blue; width: 20px; display: inline-block;"></span> Night-time noise criteria LA max 85dBA Redevelopment existing rail corridor</li> <li><span style="border: 1px solid blue; width: 10px; height: 10px; display: inline-block;"></span> Receptors</li> </ul>
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## HELIDON TO CALVERT Year 2040 Night-time rail noise levels

APPENDIX E - Map 13 of 36

**200 m**

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4  
Date: 23-Jun-2020  
Author: JG

Scale: 1:7,500

- X Level Crossings
  - Project Extent
  - Crossing Loops
  - Rail Alignment/Centreline
  - Bridges and Viaducts
  - Little Liverpool Range tunnel
  - Noise Assessment Area – Upgrading Existing Railway
  - Night-time noise criteria LAeq9hr 55dBA New rail corridor
  - Night-time noise criteria LAeq9hr 60dBA Redevelopment existing rail corridor
  - Night-time noise criteria LA max 80dBA New rail corridor
  - Night-time noise criteria LA max 85dBA Redevelopment existing rail corridor
  - Receptors
- Noise contours are based on a set distance above the local terrain level of 2.4m.

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## HELIDON TO CALVERT Year 2040 Night-time rail noise levels

APPENDIX E - Map 14 of 36

200 m

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Paper: A4  
Date: 23-Jun-2020  
Author: JG

Scale: 1:7,500

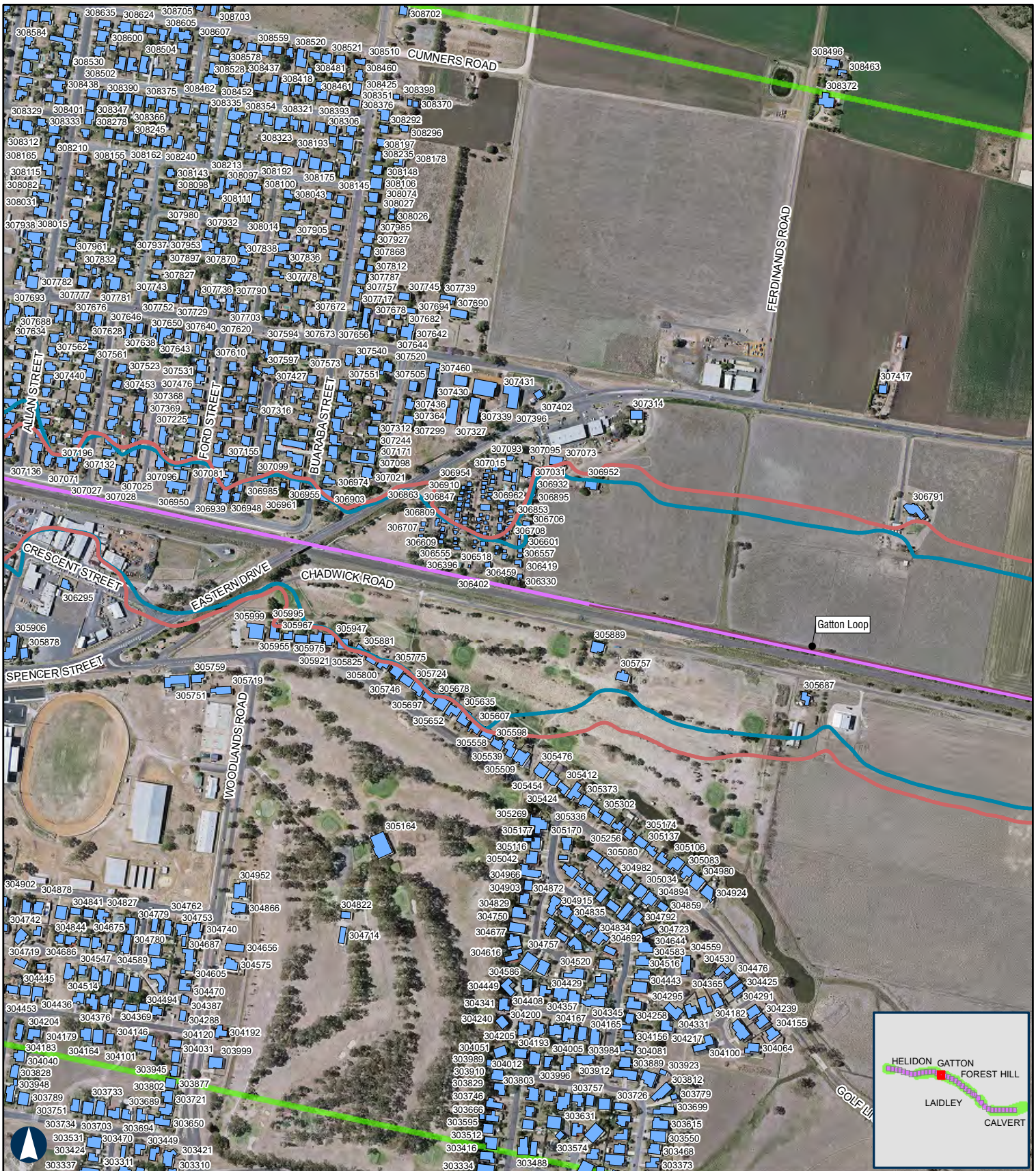
- Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway
- Night-time noise criteria LAeq9hr 55dBA New rail corridor
- Night-time noise criteria LAeq9hr 60dBA Redevelopment existing rail corridor
- Night-time noise criteria LA max 80dBA New rail corridor
- Night-time noise criteria LA max 85dBA Redevelopment existing rail corridor
- Receptors

Noise contours are based on a set distance above the local terrain level of 2.4m.

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## HELIDON TO CALVERT Year 2040 Night-time rail noise levels

APPENDIX E - Map 15 of 36

200 m

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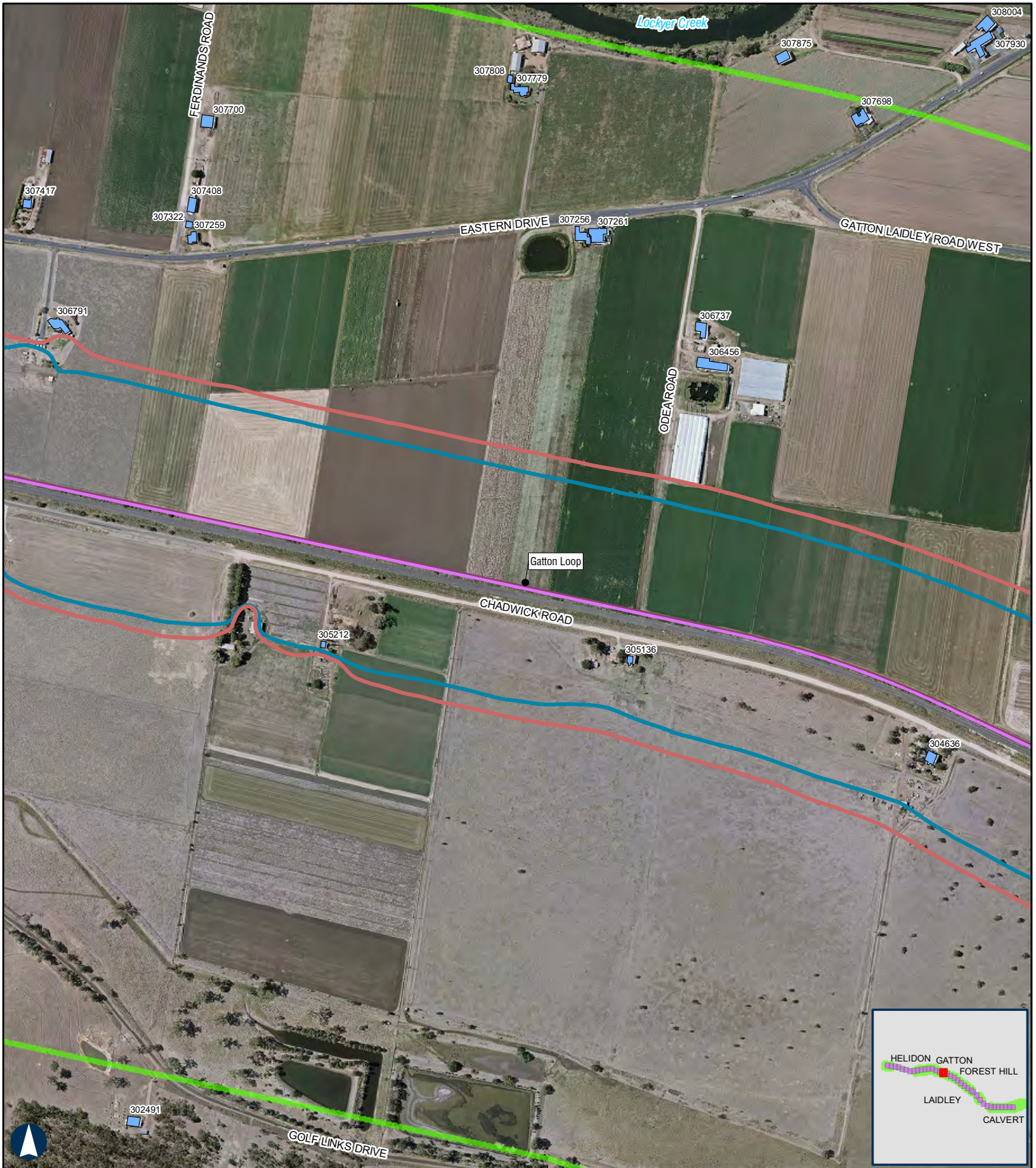
Paper: A4 Scale: 1:7,500  
 Date: 23-Jun-2020  
 Author: JG

- Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway
- Night-time noise criteria LAeq9hr 55dBA New rail corridor
- Night-time noise criteria LAeq9hr 60dBA Redevelopment existing rail corridor
- Night-time noise criteria LA max 80dBA New rail corridor
- Night-time noise criteria LA max 85dBA Redevelopment existing rail corridor
- Receptors

Noise contours are based on a set distance above the local terrain level of 2.4m.

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**HELIDON TO CALVERT** Year 2040 Night-time rail noise levels APPENDIX E - Map 16 of 36

<p><b>200 m</b></p> <p>Coordinate System: GDA 1994 MGA Zone 56</p> <p>ARTC makes no representation or warranty and assumes no duty of care or other responsibility to any party as to the completeness, accuracy or suitability of the information contained in this GIS map. The GIS map has been prepared from material provided to ARTC by an external source and ARTC has not taken any steps to verify the completeness, accuracy or suitability of that material.</p> <p>ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information contained within this GIS map.</p> <p>Paper: A4      Scale: 1:7,500          Date: 23-Jun-2020          Author: JG</p>	<ul style="list-style-type: none"> <li><span style="color: red;">✗</span> Level Crossings</li> <li><span style="border-bottom: 1px solid black; width: 20px; display: inline-block;"></span> Project Extent</li> <li><span style="border-bottom: 1px solid grey; width: 20px; display: inline-block;"></span> Crossing Loops</li> <li><span style="border-bottom: 1px solid purple; width: 20px; display: inline-block;"></span> Rail Alignment/Centreline</li> <li><span style="border-bottom: 1px solid orange; width: 20px; display: inline-block;"></span> Bridges and Viaducts</li> <li><span style="border-bottom: 1px solid brown; width: 20px; display: inline-block;"></span> Little Liverpool Range tunnel</li> <li><span style="border-bottom: 1px solid green; width: 20px; display: inline-block;"></span> Noise Assessment Area – Upgrading Existing Railway</li> </ul>	<ul style="list-style-type: none"> <li><span style="border-bottom: 1px solid orange; width: 20px; display: inline-block;"></span> Night-time noise criteria LAeq9hr 55dBA New rail corridor</li> <li><span style="border-bottom: 1px solid red; width: 20px; display: inline-block;"></span> Night-time noise criteria LAeq9hr 60dBA Redevelopment existing rail corridor</li> <li><span style="border-bottom: 1px solid magenta; width: 20px; display: inline-block;"></span> Night-time noise criteria LA max 80dBA New rail corridor</li> <li><span style="border-bottom: 1px solid blue; width: 20px; display: inline-block;"></span> Night-time noise criteria LA max 85dBA Redevelopment existing rail corridor</li> <li><span style="border: 1px solid blue; width: 10px; height: 10px; display: inline-block;"></span> Receptors</li> </ul>
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Noise contours are based on a set distance above the local terrain level of 2.4m.







**HELIDON TO CALVERT** Year 2040 Night-time rail noise levels APPENDIX E - Map 17 of 36

<p><b>200 m</b></p> <p>Coordinate System: GDA 1994 MGA Zone 56</p> <p>ARTC makes no representation or warranty and assumes no duty of care or other responsibility to any party as to the completeness, accuracy or suitability of the information contained in this GIS map. The GIS map has been prepared from material provided to ARTC by an external source and ARTC has not taken any steps to verify the completeness, accuracy or suitability of that material.</p> <p>ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information contained within this GIS map.</p> <p>Paper: A4 Date: 23-Jun-2020 Author: JG</p>	<p><b>×</b> Level Crossings</p> <p><b>—</b> Project Extent</p> <p><b>—</b> Crossing Loops</p> <p><b>—</b> Rail Alignment/Centreline</p> <p><b>—</b> Bridges and Viaducts</p> <p><b>—</b> Little Liverpool Range tunnel</p> <p><b>—</b> Noise Assessment Area – Upgrading Existing Railway</p> <p>Noise contours are based on a set distance above the local terrain level of 2.4m.</p>	<p><b>—</b> Night-time noise criteria LAeq9hr 55dBA New rail corridor</p> <p><b>—</b> Night-time noise criteria LAeq9hr 60dBA Redevelopment existing rail corridor</p> <p><b>—</b> Night-time noise criteria LA max 80dBA New rail corridor</p> <p><b>—</b> Night-time noise criteria LA max 85dBA Redevelopment existing rail corridor</p> <p><b>■</b> Receptors</p>	<p><b>ARTC</b> <i>InlandRail</i></p> <p>The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation, in partnership with the private sector.</p>
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## HELIDON TO CALVERT Year 2040 Night-time rail noise levels

APPENDIX E - Map 18 of 36

200 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:7,500  
 Date: 23-Jun-2020  
 Author: JG

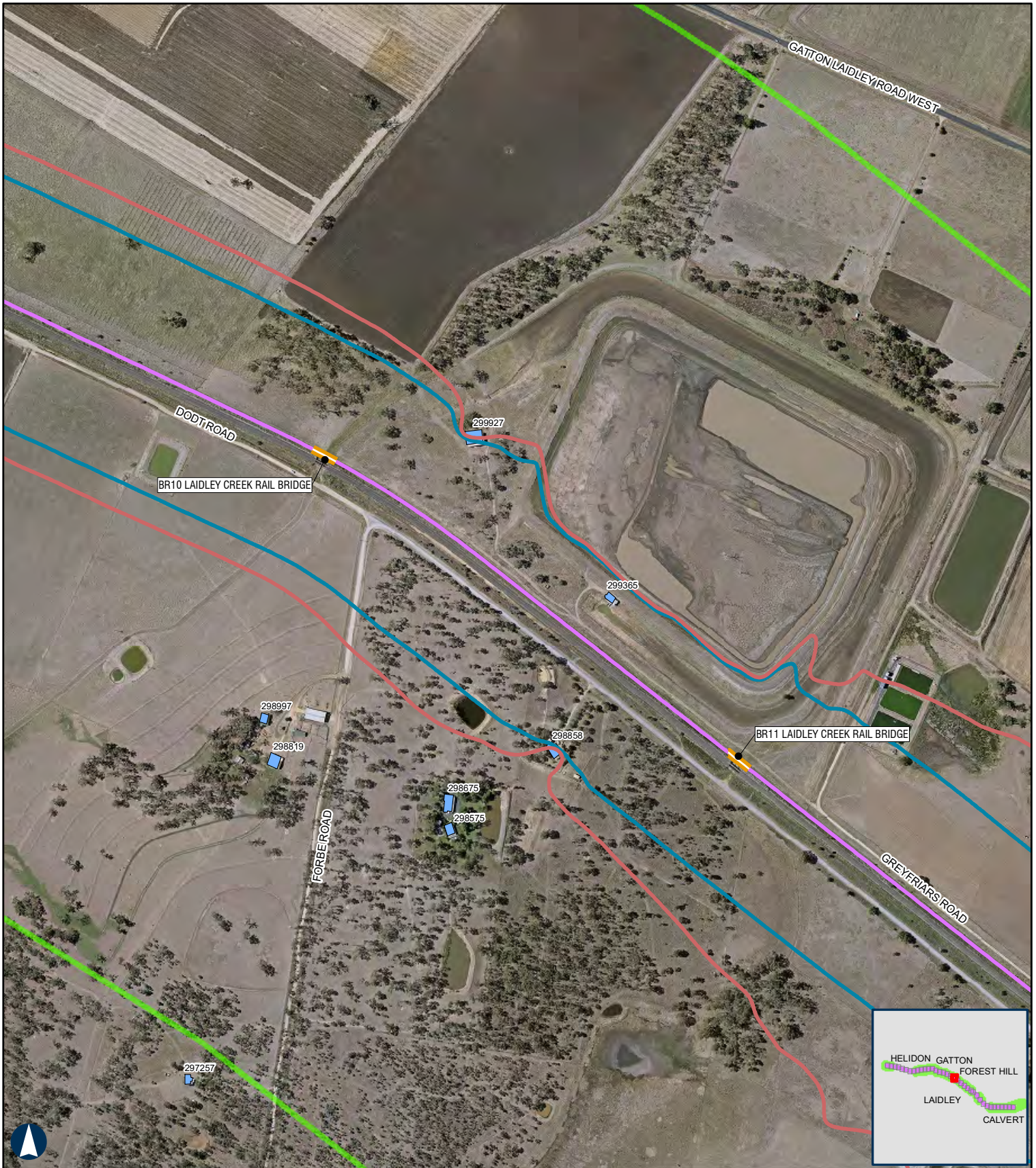
- ✗ Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway
- Night-time noise criteria LAeq9hr 55dBA New rail corridor
- Night-time noise criteria LAeq9hr 60dBA Redevelopment existing rail corridor
- Night-time noise criteria LA max 80dBA New rail corridor
- Night-time noise criteria LA max 85dBA Redevelopment existing rail corridor
- Receptors

Noise contours are based on a set distance above the local terrain level of 2.4m.



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# HELIDON TO CALVERT Year 2040 Night-time rail noise levels

200 m

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- ✕ Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway
- Night-time noise criteria LAeq9hr 55dBA New rail corridor
- Night-time noise criteria LAeq9hr 60dBA Redevelopment existing rail corridor
- Night-time noise criteria LA max 80dBA New rail corridor
- Night-time noise criteria LA max 85dBA Redevelopment existing rail corridor
- Receptors

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# HELIDON TO CALVERT Year 2040 Night-time rail noise levels

200 m

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- ✕ Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway

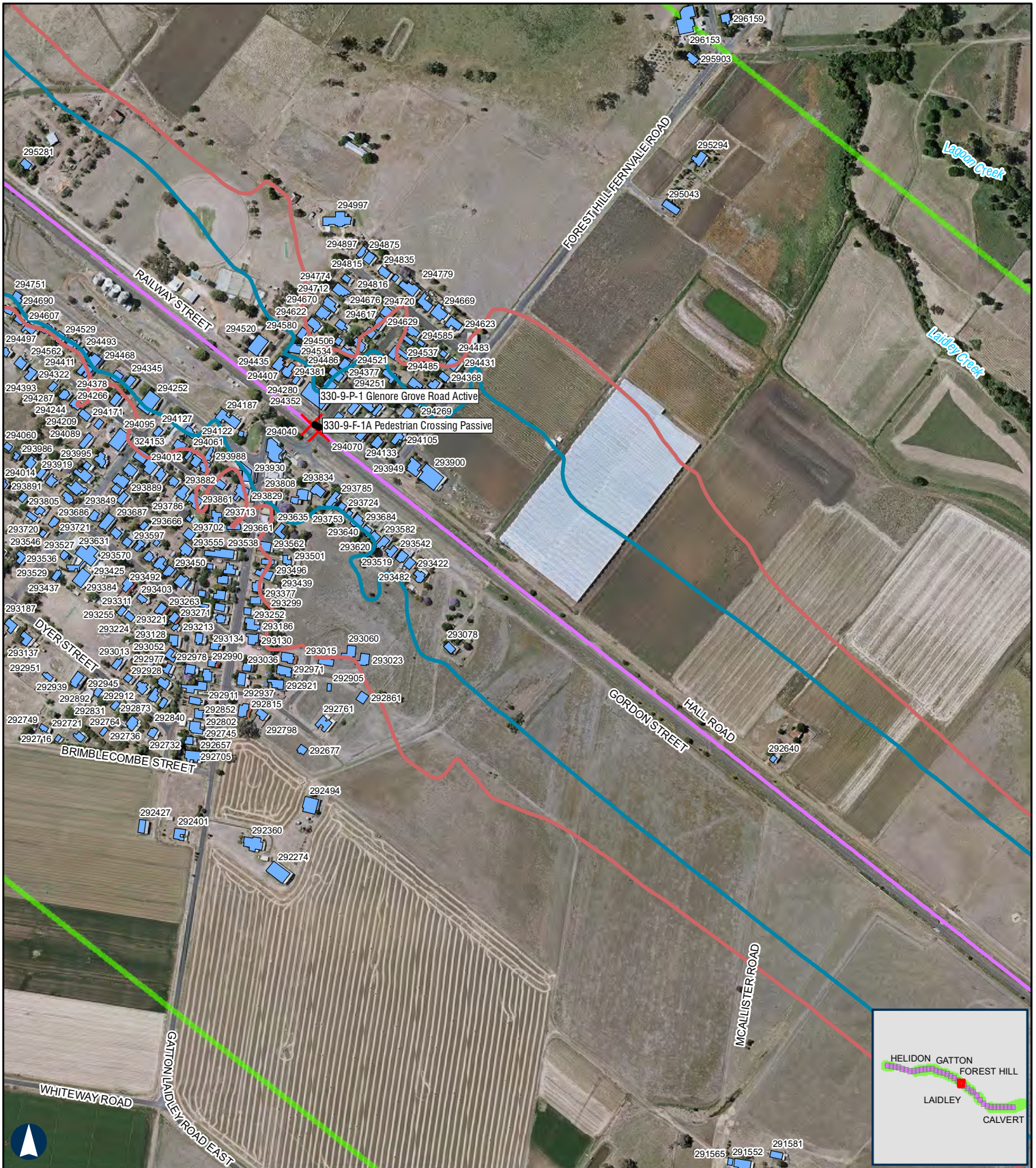
Noise contours are based on a set distance above the local terrain level of 2.4m.

- Night-time noise criteria LAeq9hr 55dBA New rail corridor
- Night-time noise criteria LAeq9hr 60dBA Redevelopment existing rail corridor
- Night-time noise criteria LA max 80dBA New rail corridor
- Night-time noise criteria LA max 85dBA Redevelopment existing rail corridor
- Receptors



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# HELIDON TO CALVERT Year 2040 Night-time rail noise levels

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- ✕ Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway

Noise contours are based on a set distance above the local terrain level of 2.4m.

- Night-time noise criteria LAeq9hr 55dBA New rail corridor
- Night-time noise criteria LAeq9hr 60dBA Redevelopment existing rail corridor
- Night-time noise criteria LA max 80dBA New rail corridor
- Night-time noise criteria LA max 85dBA Redevelopment existing rail corridor
- Receptors



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## HELIDON TO CALVERT Year 2040 Night-time rail noise levels

APPENDIX E - Map 22 of 36

200 m

Coordinate System: GDA 1994 MGA Zone 56

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 Date: 23-Jun-2020  
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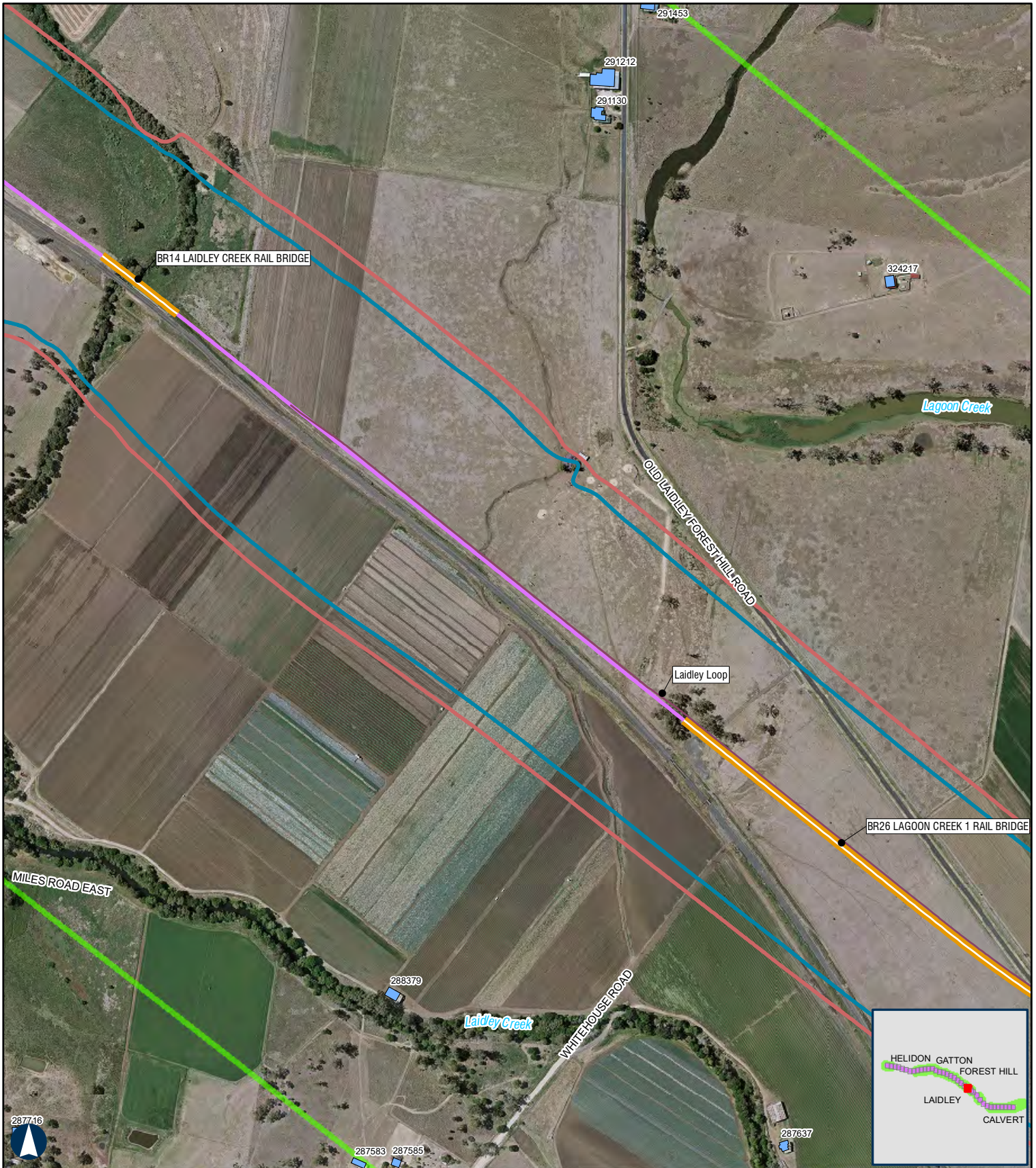
- Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway
- Receptors
- Night-time noise criteria LAeq9hr 55dBA New rail corridor
- Night-time noise criteria LAeq9hr 60dBA Redevelopment existing rail corridor
- Night-time noise criteria LA max 80dBA New rail corridor
- Night-time noise criteria LA max 85dBA Redevelopment existing rail corridor

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## HELIDON TO CALVERT Year 2040 Night-time rail noise levels

APPENDIX E - Map 23 of 36

200 m

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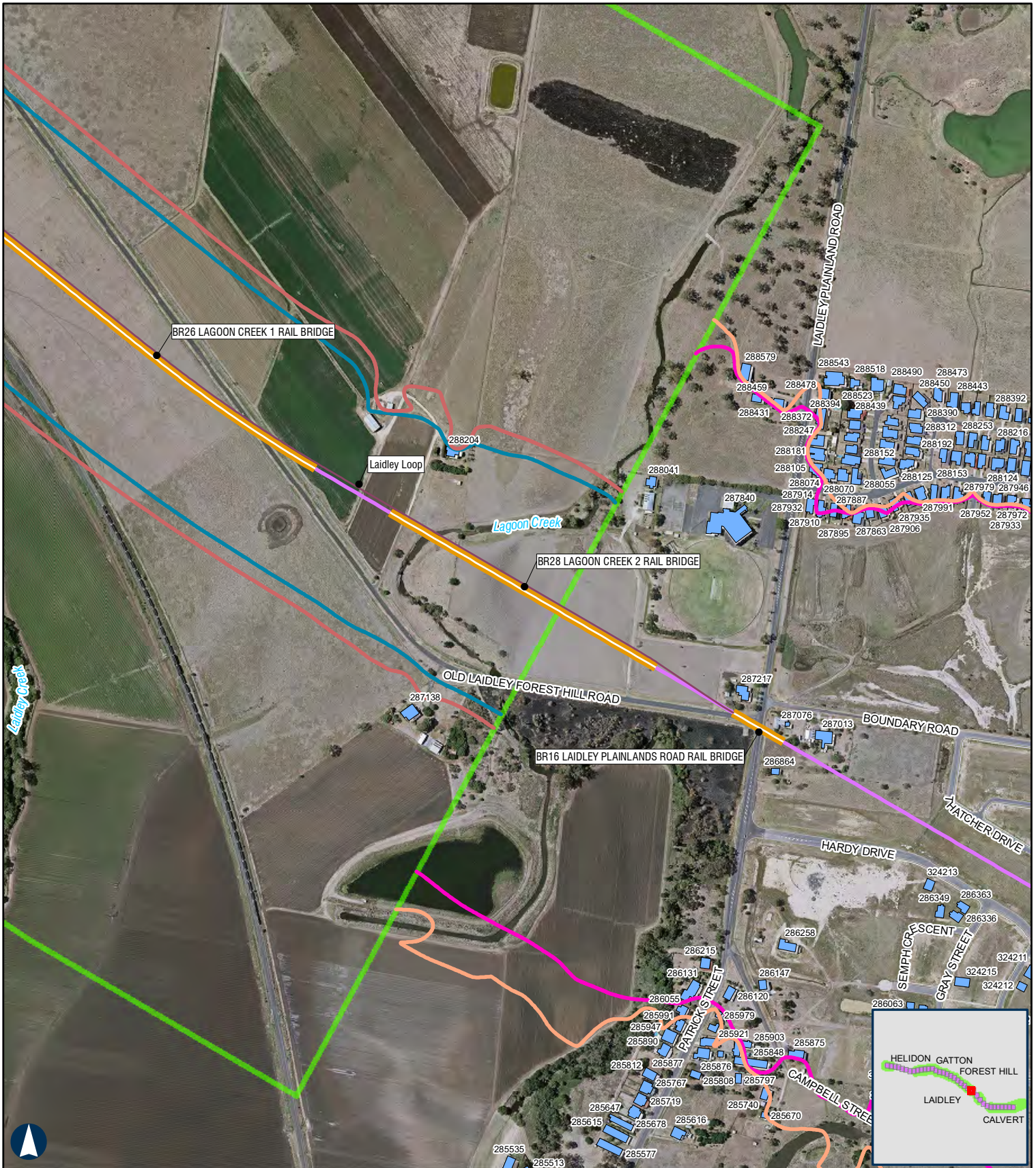
- Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway
- Night-time noise criteria LAeq9hr 55dBA New rail corridor
- Night-time noise criteria LAeq9hr 60dBA Redevelopment existing rail corridor
- Night-time noise criteria LA max 80dBA New rail corridor
- Night-time noise criteria LA max 85dBA Redevelopment existing rail corridor
- Receptors

Noise contours are based on a set distance above the local terrain level of 2.4m.



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# HELIDON TO CALVERT Year 2040 Night-time rail noise levels

200 m

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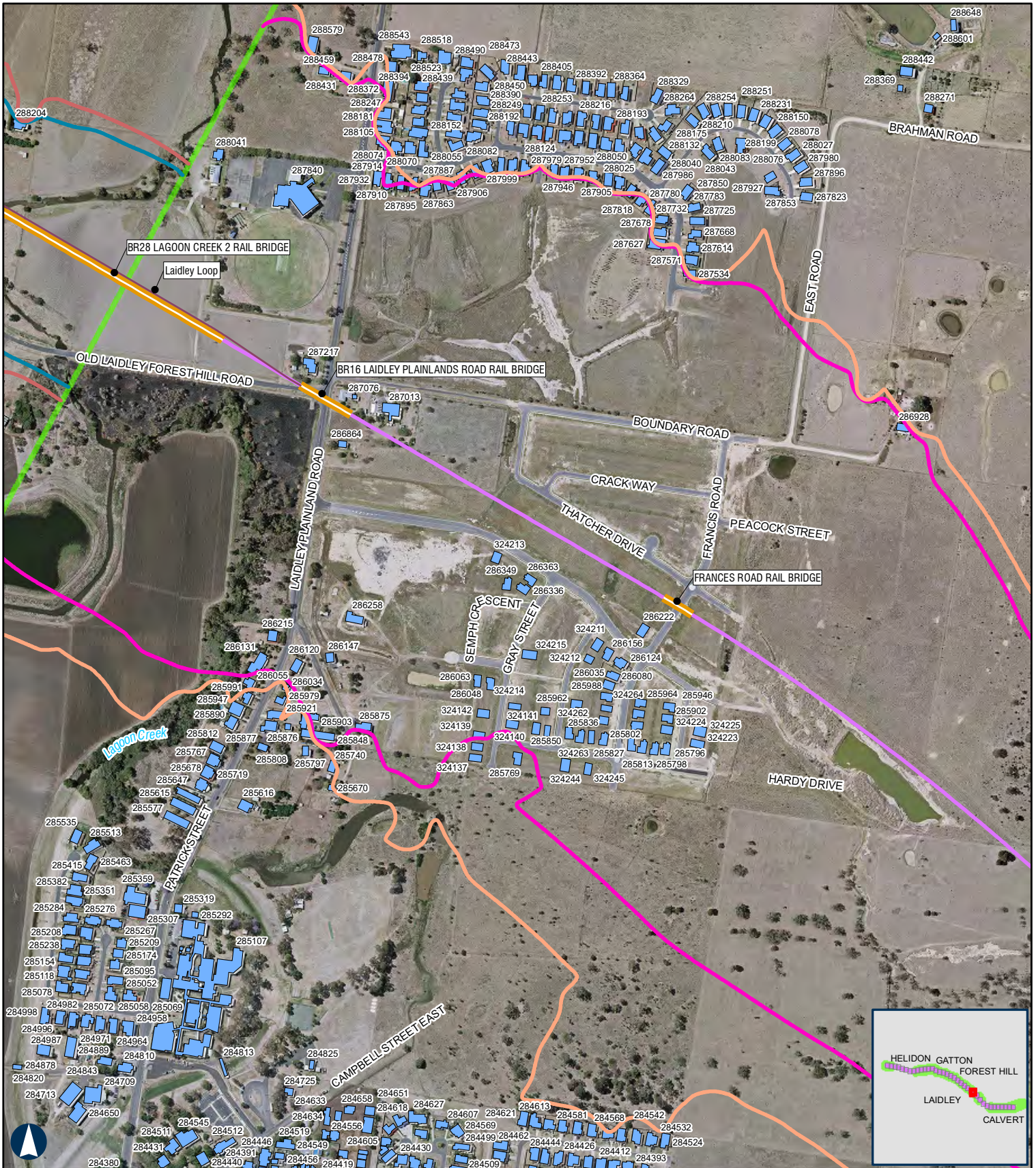
- X Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway
- Night-time noise criteria LAeq9hr 55dBA New rail corridor
- Night-time noise criteria LAeq9hr 60dBA Redevelopment existing rail corridor
- Night-time noise criteria LA max 80dBA New rail corridor
- Night-time noise criteria LA max 85dBA Redevelopment existing rail corridor
- Receptors

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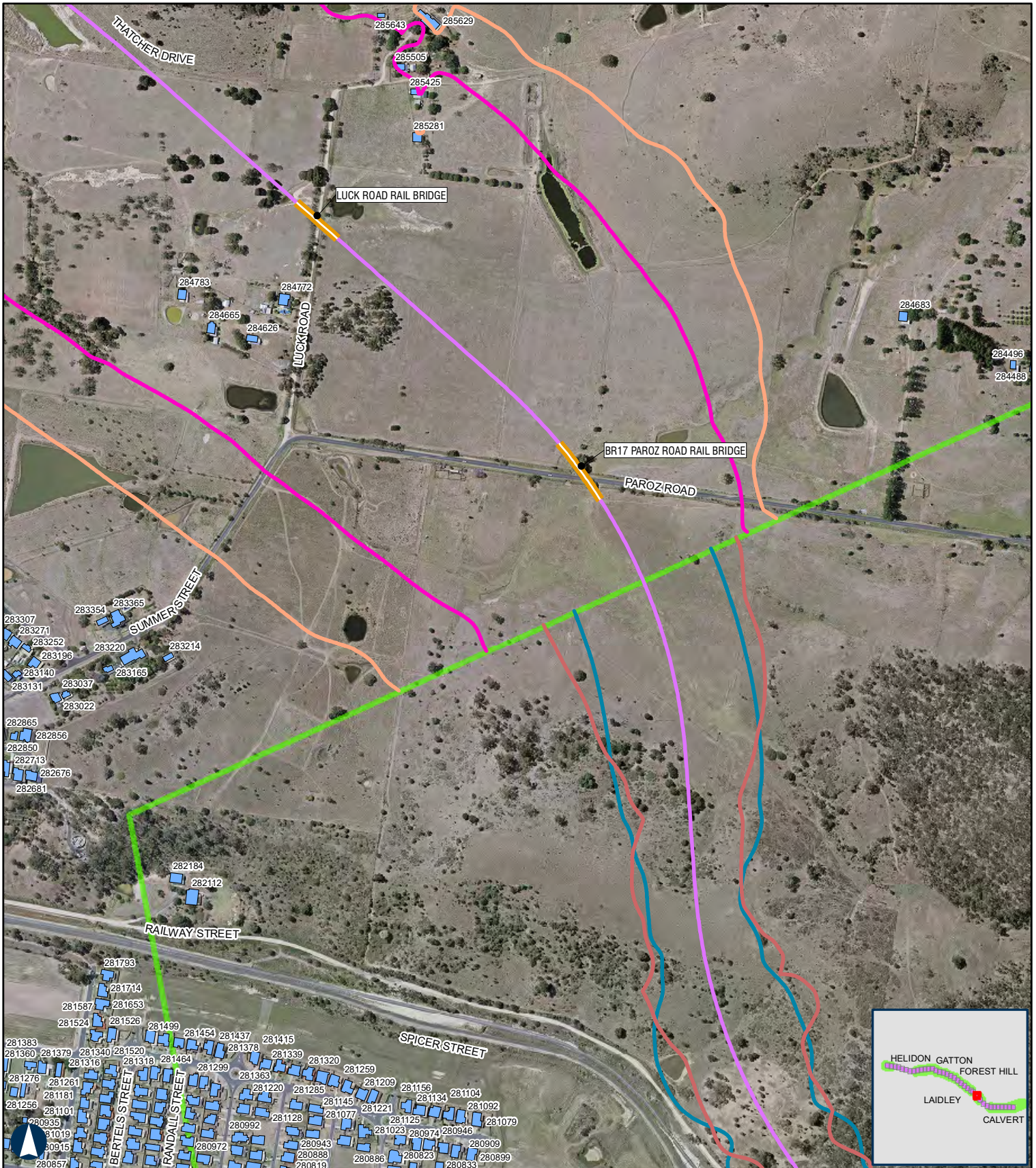
- Level Crossings
- Project Extent
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## HELIDON TO CALVERT Year 2040 Night-time rail noise levels

APPENDIX E - Map 26 of 36

200 m

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Date: 23-Jun-2020  
Author: JG

Scale: 1:7,500

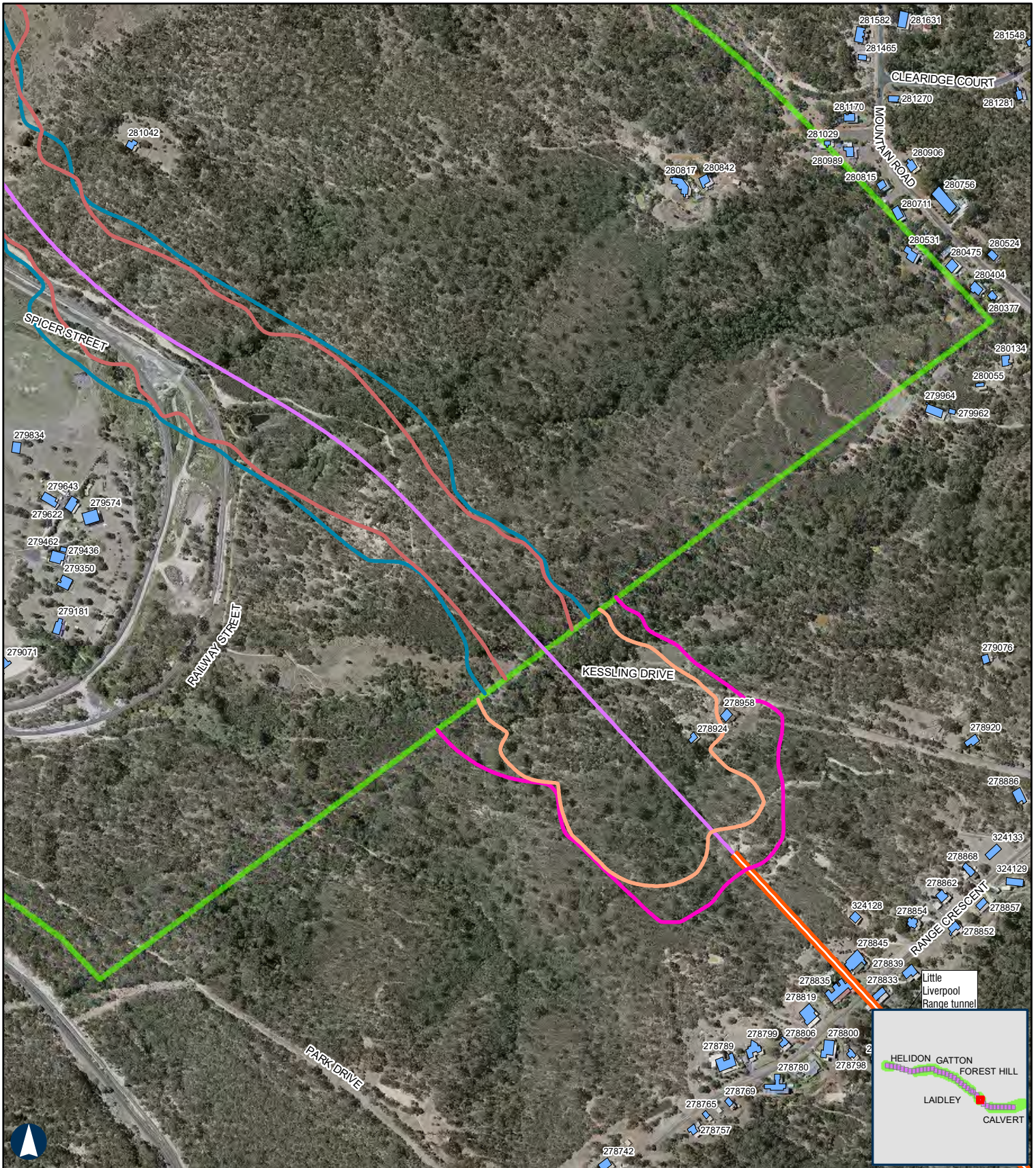
- Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway
- Night-time noise criteria LAeq9hr 55dBA New rail corridor
- Night-time noise criteria LAeq9hr 60dBA Redevelopment existing rail corridor
- Night-time noise criteria LA max 80dBA New rail corridor
- Night-time noise criteria LA max 85dBA Redevelopment existing rail corridor
- Receptors

Noise contours are based on a set distance above the local terrain level of 2.4m.



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# HELIDON TO CALVERT Year 2040 Night-time rail noise levels

200 m

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 Date: 23-Jun-2020  
 Author: JG

- Level Crossings
- Project Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Little Liverpool Range tunnel
- Noise Assessment Area – Upgrading Existing Railway

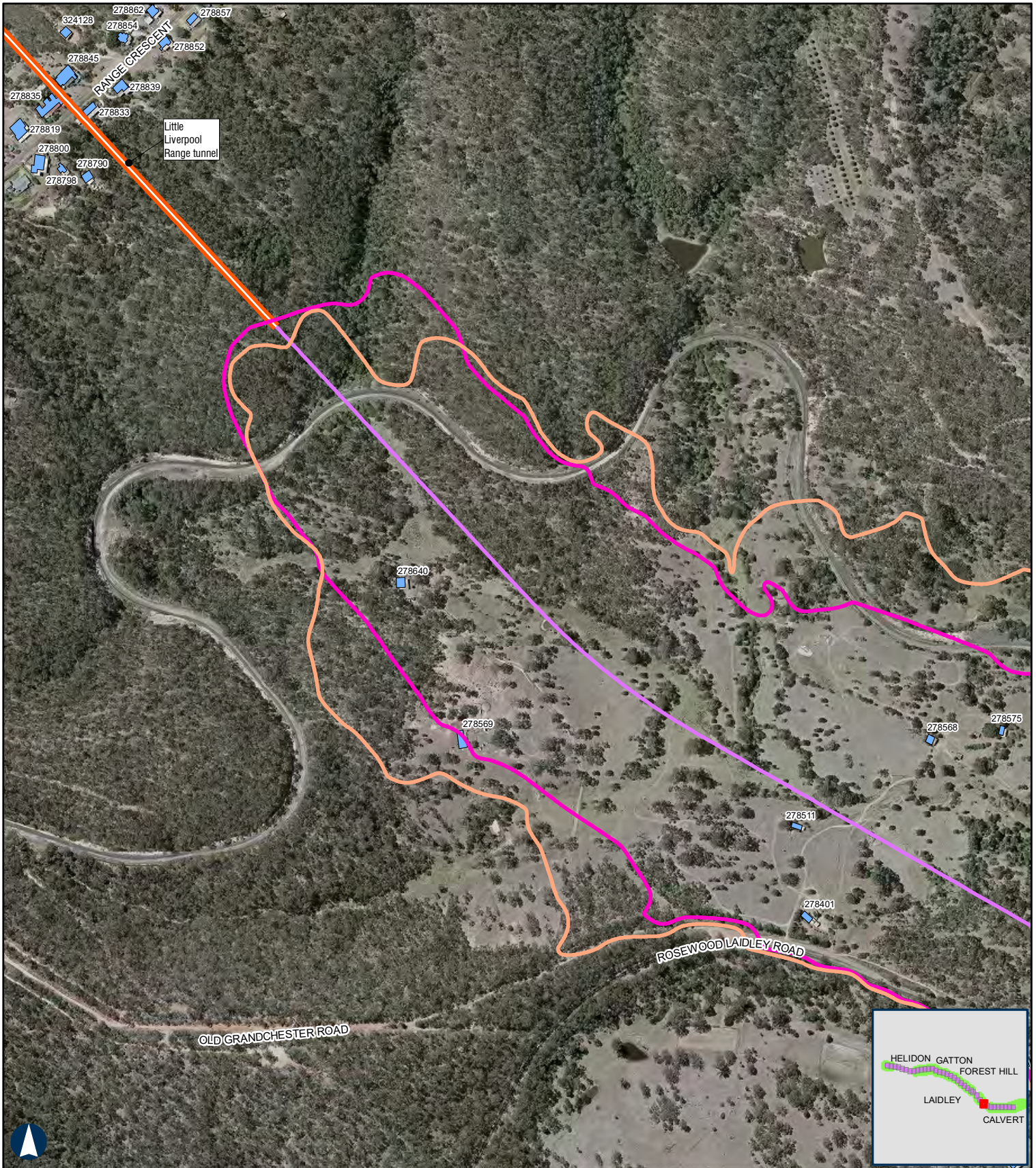
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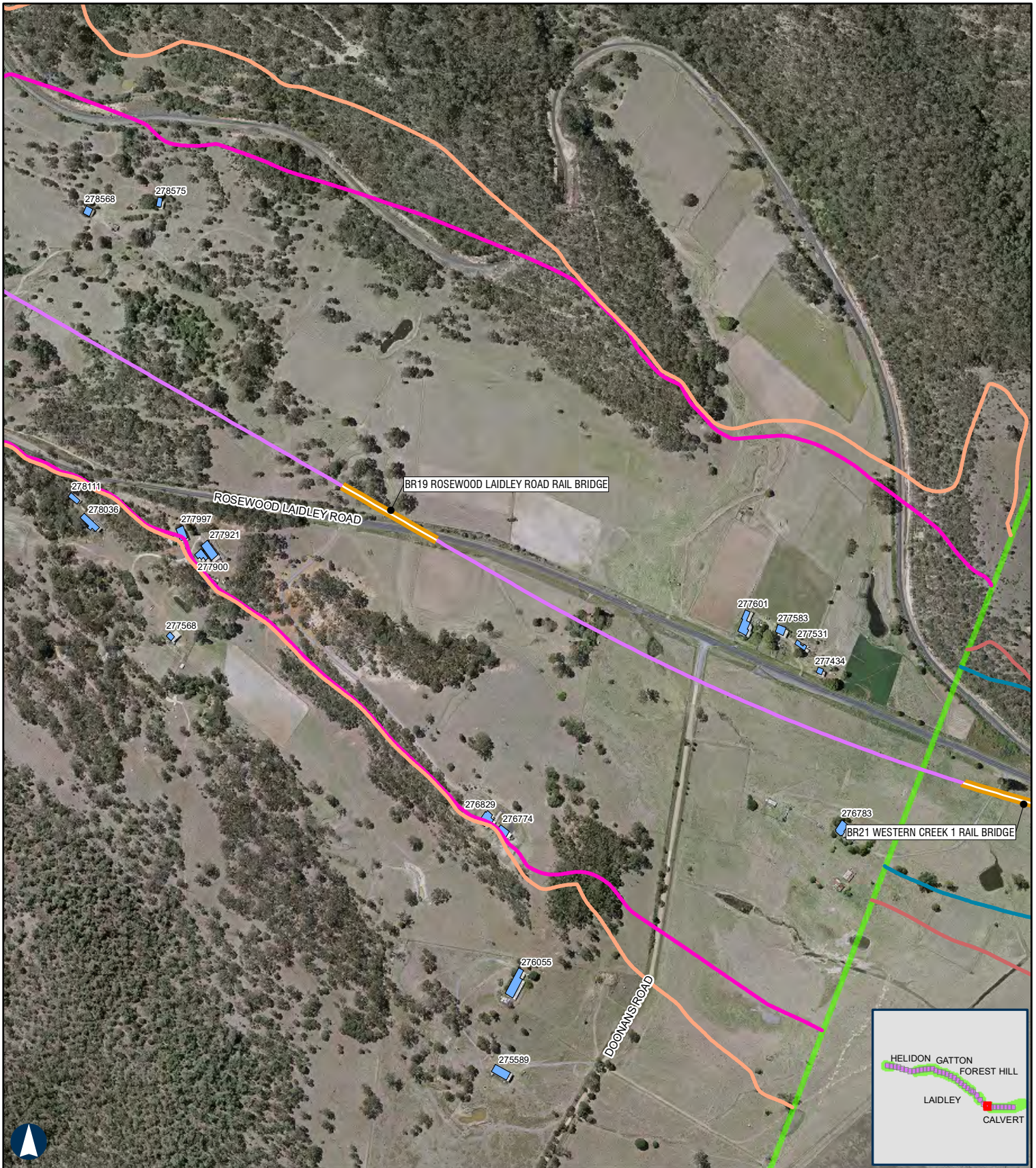
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**HELIDON TO CALVERT** Year 2040 Night-time rail noise levels APPENDIX E - Map 29 of 36

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# HELIDON TO CALVERT Year 2040 Night-time rail noise levels

200 m

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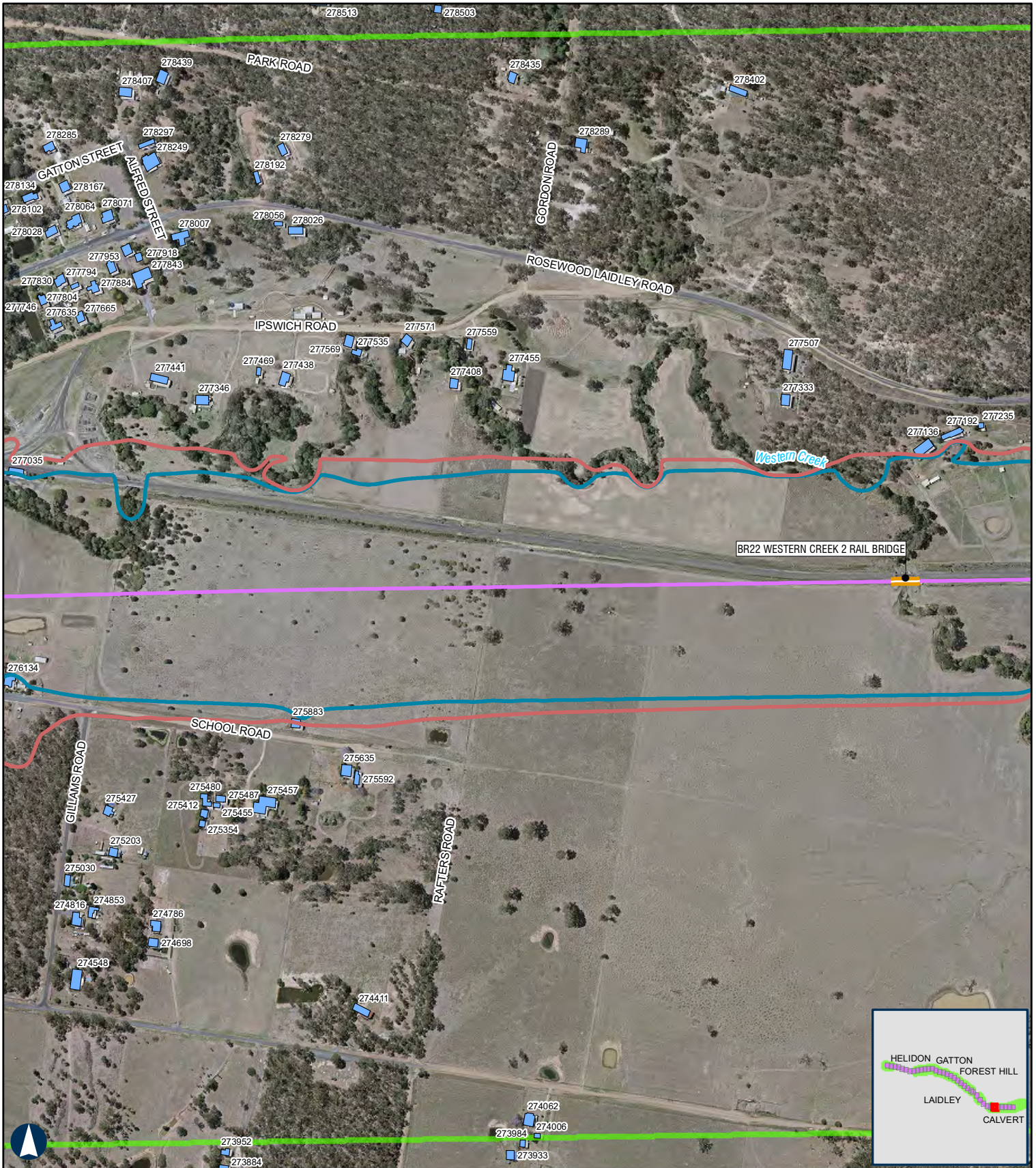
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**HELIDON TO CALVERT** Year 2040 Night-time rail noise levels APPENDIX E - Map 31 of 36

**200 m**

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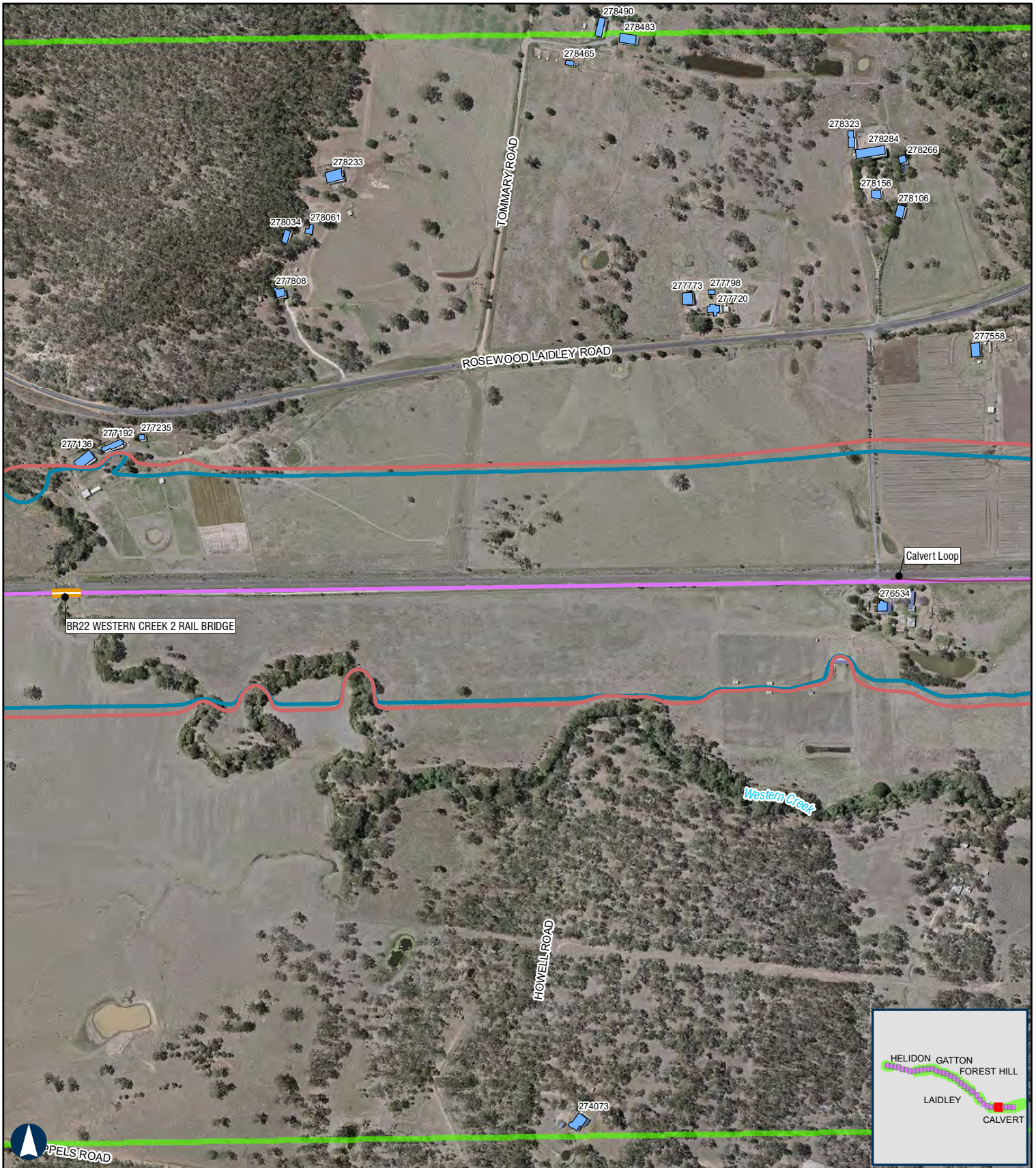
Paper: A4 Scale: 1:7,500  
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- X Level Crossings
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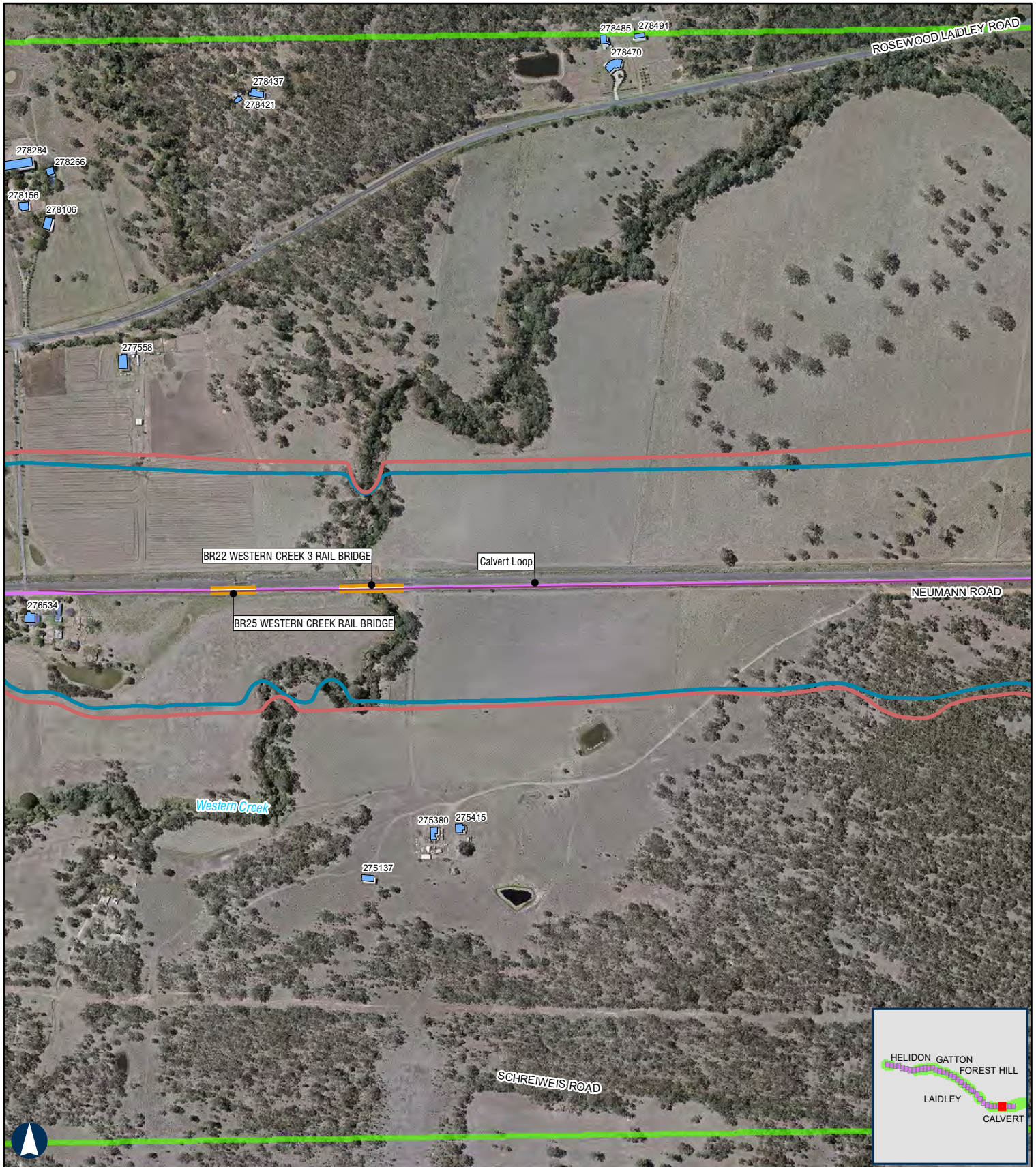
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APPENDIX E - Map 33 of 36

200 m

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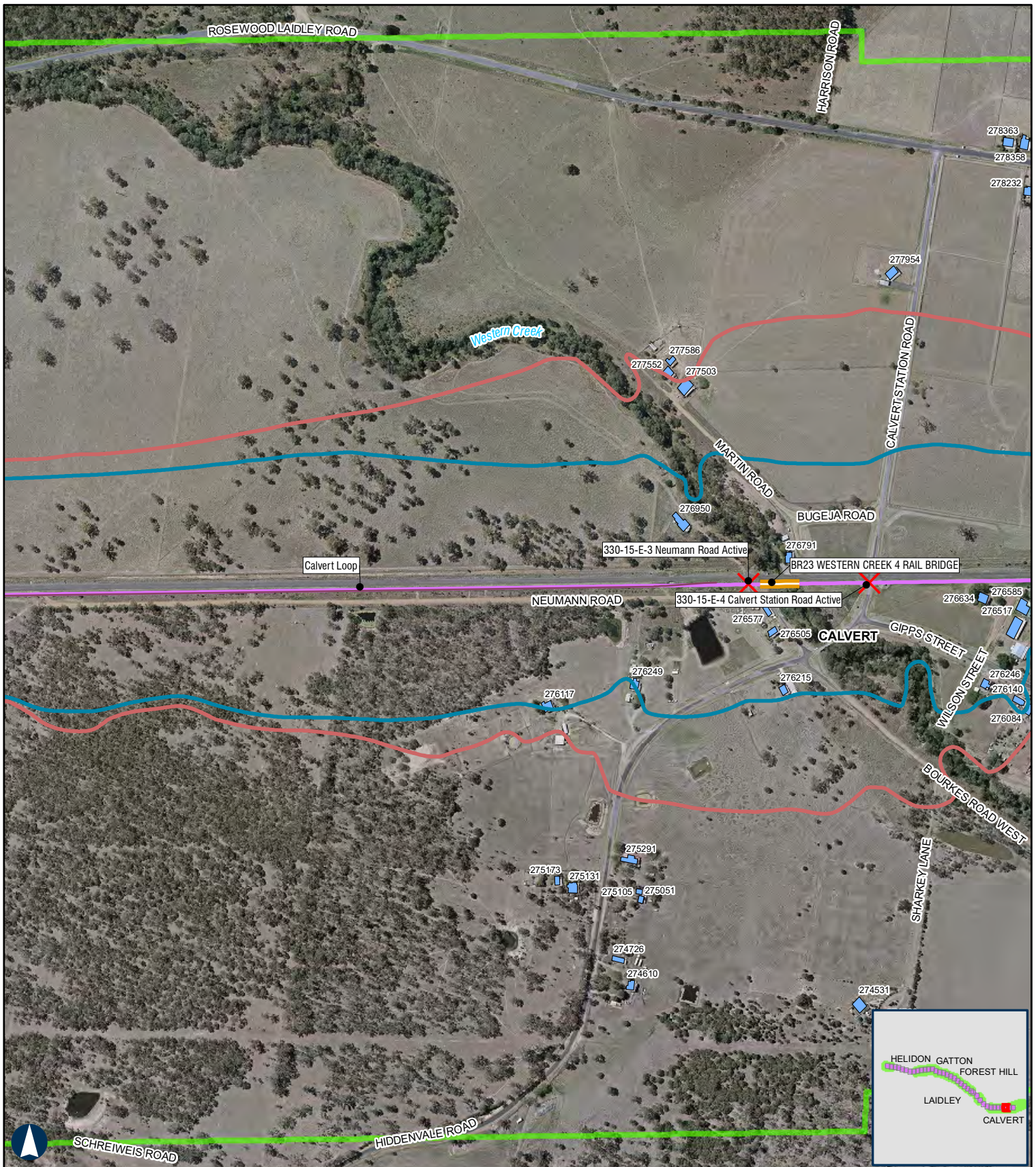
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**200 m**

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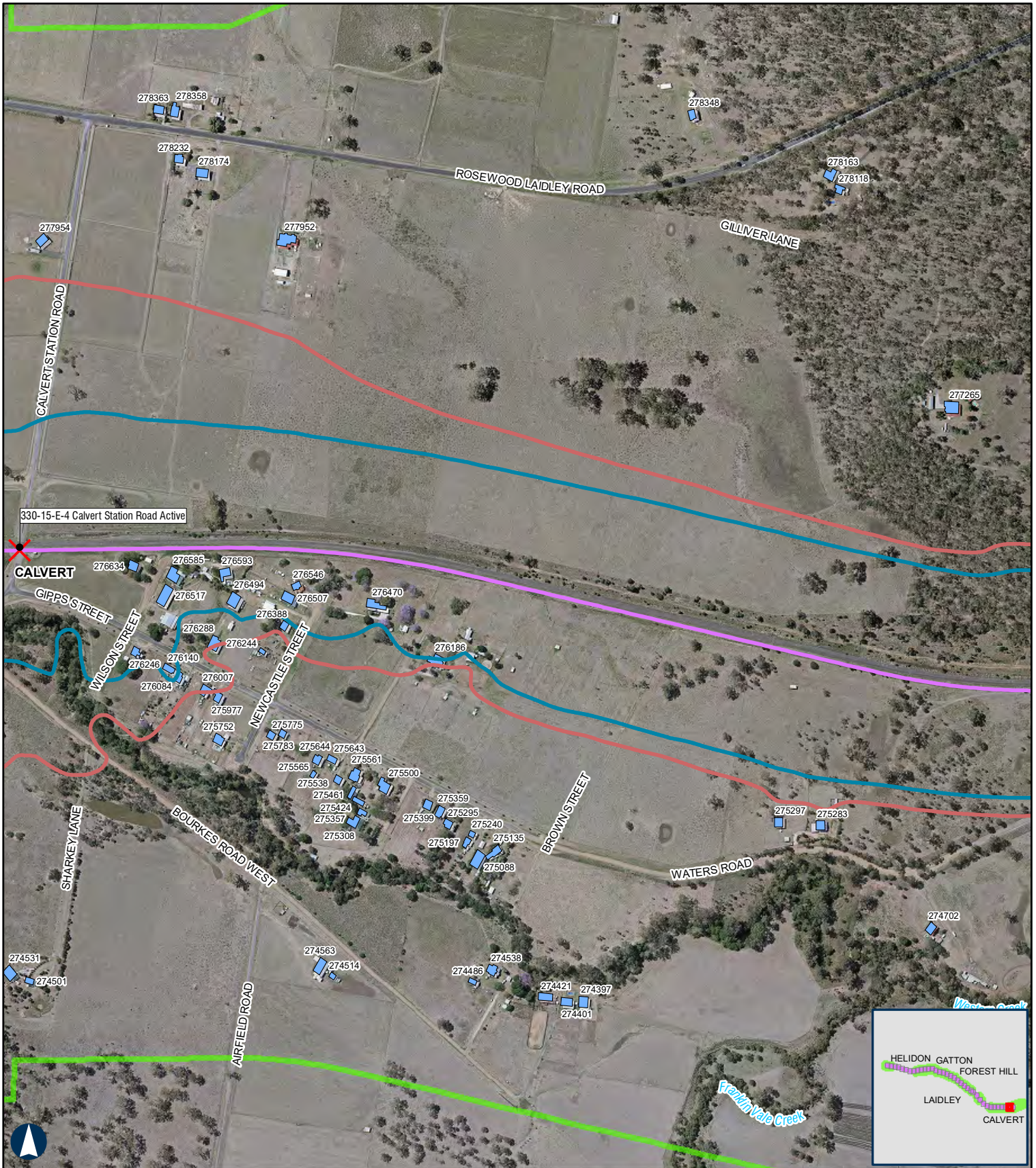
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## HELIDON TO CALVERT Year 2040 Night-time rail noise levels

APPENDIX E - Map 35 of 36

200 m

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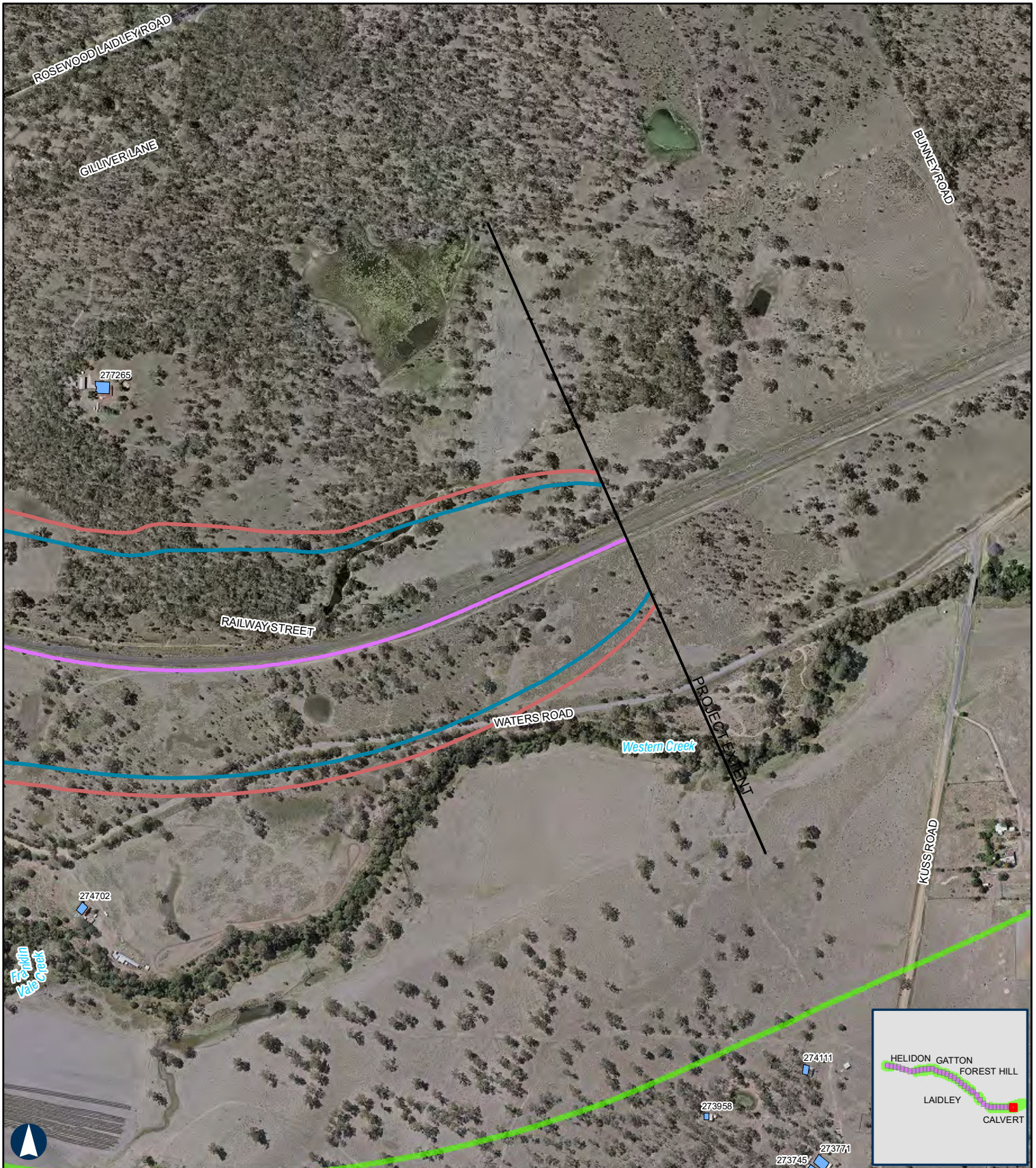
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## HELIDON TO CALVERT Year 2040 Night-time rail noise levels

APPENDIX E - Map 36 of 36

200 m

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APPENDIX

P

# Operational Railway Noise and Vibration Technical Report

## **Appendix F** Basis of Assessment— Ground-borne Noise and Vibration in Tunnel

HELIDON TO CALVERT ENVIRONMENTAL IMPACT STATEMENT



## **APPENDIX F**

Basis of assessment – ground-borne noise and vibration in tunnel

Aspect	Parameter	Approach	Rationale, validation
General	Criteria	Refer <b>Table 14</b> and <b>Table 16</b>	Detailed study where triggered.
	Little Liverpool Range tunnel	61,830 to 62,680 km	Design and constructability reports for the tunnel.
	Track alignment	As provided to date	-
	Locations of turnouts and track features	No turnouts or local track features within tunnels which could modify source levels	-
Operations	Number of train movements and mix	Refer <b>Table 23</b> and <b>Table 24</b>	No changes from current design.
	Speed profile	Refer <b>Section 6.3.2</b>	Not signal or max speed
Construction	Track type vs kilometrage	Tunnel: 100% track slab, Rheda2000 bibloc sleepers @ 650 mm centres. Portal approaches: ballasted, AS60kg on concrete monobloc sleepers @ 600 mm centres, 250-500 mm ballast	Design and constructability reports for the tunnel. No hard / HDPE pads – rail supports modelled as per ‘Track dynamics’ below
	Tunnel cross section (diameter and thickness of extrados)	As provided to date	Design and constructability reports for the tunnel.
	Tunnel linings	300 mm steel fibre reinforced 40 MPa concrete	No changes from current design
	Tunnel coupling loss to groundsoil	0 dB	Conservative
	Options for locating sound absorptive materials	None	-
Vehicle dynamics	General details, length, axle loads	As provided to date	-
	Wheel condition	‘K’ block equivalent. No influence of wheel flats / defects	Specification not provided
Track dynamics	Rail type	AS60kg	-
	Vertical dynamic stiffness of slab track, 10 mm HPDE rail pad	20 MN/m	Vossloh 300NG series highly resilient rail fastener (cellentic intermediate plate with 17 MN/m (mega Newton per metre) static stiffness, 1.1 dynamic to static stiffness ratio). Minor allowance for ageing/creep.
	Vertical dynamic stiffness of ballast track, 10 mm HPDE rail pad	1000 MN/m	800 MN/m static modelled in Design and constructability reports for the tunnel.
	Rail condition	ISO 3095	In lieu of suitable field data
	Variation in stiffness over time	Modelled levels are upper limit actual.	Stiffness values can increase with ageing over time, reducing isolation performance.
Source noise and vibration emissions	Base vibration overall level, ballasted track on grade, 10 mm HPDE rail pad, 5 <sup>th</sup> percentile (L <sub>5</sub> )	<b>Section 12.2</b>	SLR field measurements



Aspect	Parameter	Approach	Rationale, validation
	Base vibration spectra, track slab in tunnel, represent tunnel invert position, 10 mm HPDE rail pad, 5 <sup>th</sup> percentile (L <sub>5</sub> )	<b>Section 12.2</b> (Based on ballasted track on grade less 5 dB)	Federal Transit Administration 2006, Transit Noise and Vibration Impact Assessment, (“FTA Guidelines”) Report FTA-VA-90-1003-06.
	Base vibration spectra, slab track in tunnel, for softer rail pads	Adjusted based on single degree of freedom (SDOF) model, using differences in trackform stiffness and sleeper spacings as relevant.	Note some trackforms with secondary resilient elements require a multi-degree of freedom (MDOF) model
Environmental factors	Ground contour lines/ elevation data outside the rail corridor	As provided	Ground terrain outside the rail corridor will not change.
	Ground contours/ dive structures within rail corridor	As provided	-
	Vibration correction for curved track less than 500 m radius but more than 300 m radius	None / not applicable	-
	Vibration correction for curved track less than 300 m radius	None / not applicable	-
	Vibration Correction for swing frog/ nose crossing (SNX), per	+6 dB over 15 m	-
	Vibration Correction for fixed frog crossing (FFX), per	+10 dB over 15 m	-
	Traffic volumes	As provided	-
	Design margin	0-1 dB	Not including uncertainty
	Ground soil types and layering	Sandstone principally Isotropic, homogeneous	-
	Propagation model	‘1.5D’ using 3D distance between nearest building foundation and 5 metre rail segments	Industry standard approach
	Ground vibration propagation losses	Excess attenuation based on 3D distance	Isotropic, homogenous media. No effects of stratification/ layering/ water table..
	Adjustments for coupling losses into buildings	None	FTA industry guideline advice for acoustics.
	Vibration losses between floors	None	
	Floor amplification values	None	
	Key assumptions	Airborne noise coupling into tunnel insignificant	
Design margin	U <sub>90</sub> to be developed	Industry standard approach where knowledge of ground conditions is limited.	

## ASIA PACIFIC OFFICES

### BRISBANE

Level 2, 15 Astor Terrace  
Spring Hill QLD 4000  
Australia  
T: +61 7 3858 4800  
F: +61 7 3858 4801

### CANBERRA

GPO 410  
Canberra ACT 2600  
Australia  
T: +61 2 6287 0800  
F: +61 2 9427 8200

### DARWIN

Unit 5, 21 Parap Road  
Parap NT 0820  
Australia  
T: +61 8 8998 0100  
F: +61 8 9370 0101

### GOLD COAST

Level 2, 194 Varsity Parade  
Varsity Lakes QLD 4227  
Australia  
M: +61 438 763 516

### MACKAY

21 River Street  
Mackay QLD 4740  
Australia  
T: +61 7 3181 3300

### MELBOURNE

Level 11, 176 Wellington Parade  
East Melbourne VIC 3002  
Australia  
T: +61 3 9249 9400  
F: +61 3 9249 9499

### NEWCASTLE

10 Kings Road  
New Lambton NSW 2305  
Australia  
T: +61 2 4037 3200  
F: +61 2 4037 3201

### PERTH

Ground Floor, 503 Murray Street  
Perth WA 6000  
Australia  
T: +61 8 9422 5900  
F: +61 8 9422 5901

### SYDNEY

Tenancy 202 Submarine School  
Sub Base Platypus  
120 High Street  
North Sydney NSW 2060  
Australia  
T: +61 2 9427 8100  
F: +61 2 9427 8200

### TOWNSVILLE

12 Cannan Street  
South Townsville QLD 4810  
Australia  
T: +61 7 4722 8000  
F: +61 7 4722 8001

### WOLLONGONG

Level 1, The Central Building  
UoW Innovation Campus  
North Wollongong NSW 2500  
Australia  
T: +61 404 939 922

### AUCKLAND

68 Beach Road  
Auckland 1010  
New Zealand  
T: 0800 757 695

### NELSON

6/A Cambridge Street  
Richmond, Nelson 7020  
New Zealand  
T: +64 274 898 628