

# TECHNICAL REPORT

INLAND  
RAIL 

# 9

## Noise and vibration assessment – operational rail

PART 2 OF 4

Appendix A to D

NARROMINE TO NARRABRI ENVIRONMENTAL IMPACT STATEMENT

ARTC

The Australian Government is delivering  
Inland Rail through the Australian  
Rail Track Corporation (ARTC), in  
partnership with the private sector.

# TECHNICAL REPORT

# 9

## Noise and vibration assessment – operational rail

### **Appendix A** Identification of sensitive receivers

NARROMINE TO NARRABRI ENVIRONMENTAL IMPACT STATEMENT





## NARROMINE TO NARRABRI

## Sensitive Receivers

## APPENDIX A - Map 1 of 84

500 m

Coordinate System: GDA 1994 MGA Zone 56

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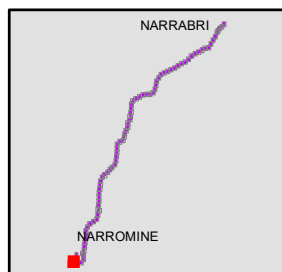
Paper: A4

Scale: 1:20,000

Date: 31-Jul-2020

Author: JG

- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges & Viaducts
- Sensitive Receivers



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## NARROMINE TO NARRABRI

## Sensitive Receivers

APPENDIX A - Map 2 of 84

500 m

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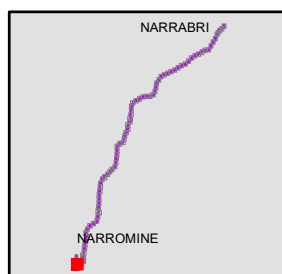
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## NARROMINE TO NARRABRI

## Sensitive Receivers

APPENDIX A - Map 3 of 84

500 m

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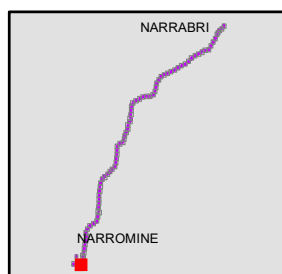
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## NARROMINE TO NARRABRI

## Sensitive Receivers

## APPENDIX A - Map 4 of 84

500 m

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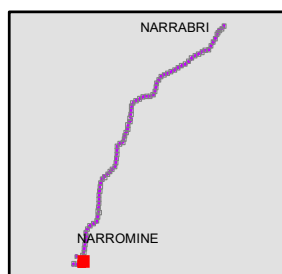
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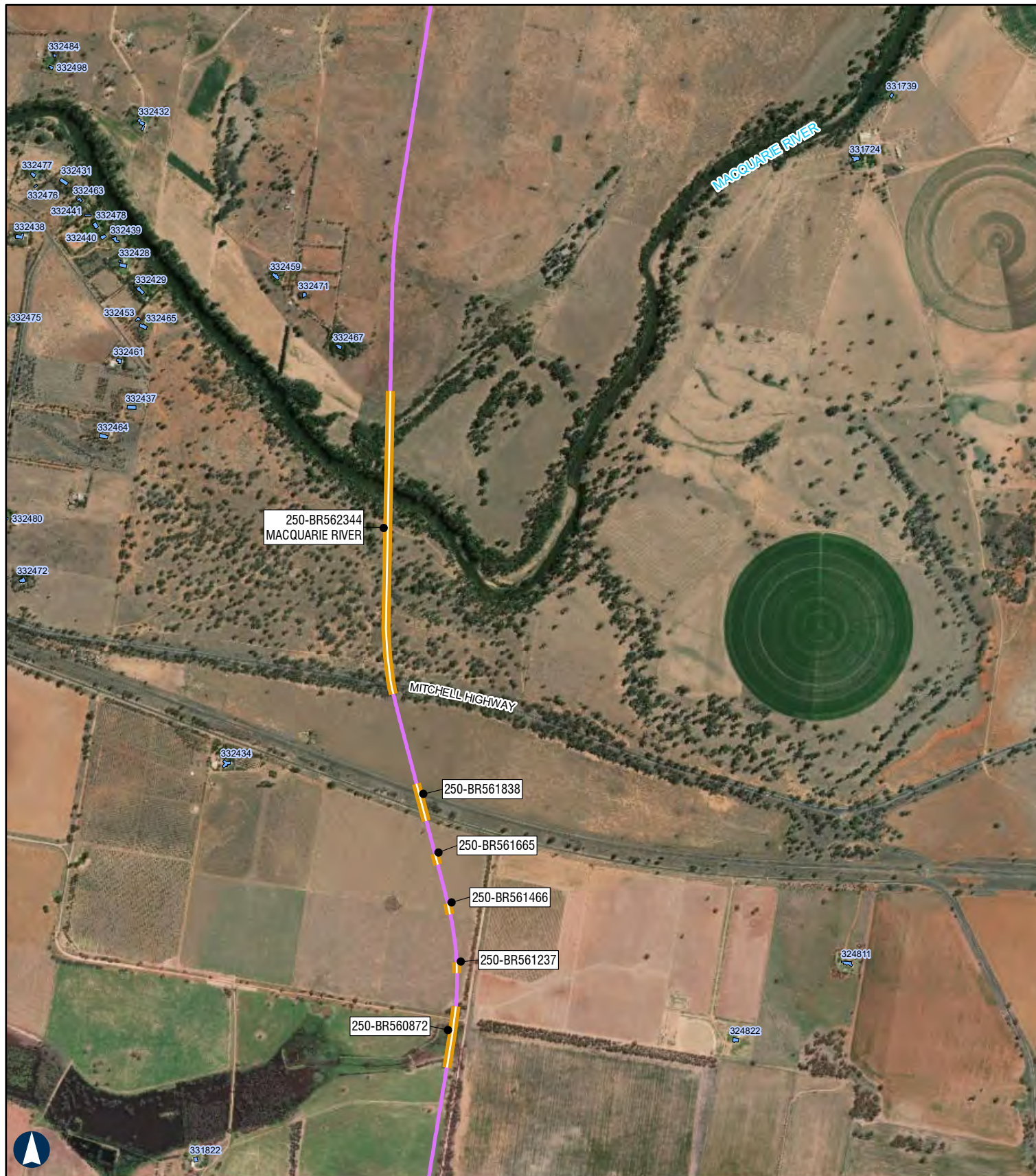
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## NARROMINE TO NARRABRI

## Sensitive Receivers

## APPENDIX A - Map 5 of 84

500 m

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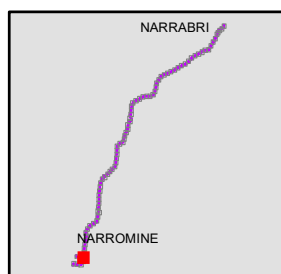
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## NARROMINE TO NARRABRI

## Sensitive Receivers

## APPENDIX A - Map 6 of 84

500 m

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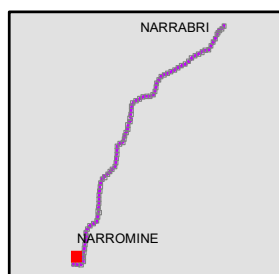
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Scale: 1:15,000

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## NARROMINE TO NARRABRI

## Sensitive Receivers

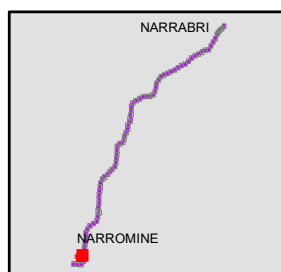
## APPENDIX A - Map 7 of 84

500 m

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## NARROMINE TO NARRABRI

## Sensitive Receivers

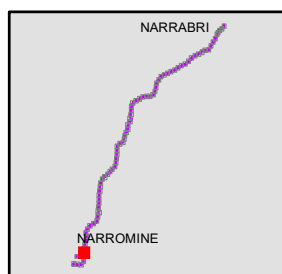
APPENDIX A - Map 8 of 84

500 m

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## Sensitive Receivers

## APPENDIX A - Map 9 of 84

500 m

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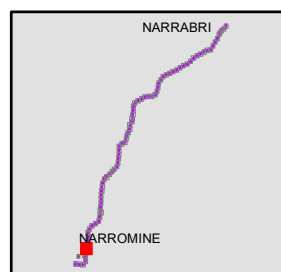
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## NARROMINE TO NARRABRI

## Sensitive Receivers

## APPENDIX A - Map 10 of 84

500 m

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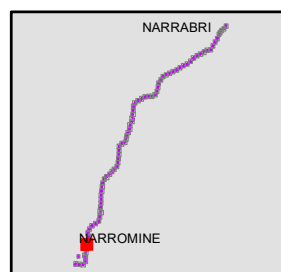
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## NARROMINE TO NARRABRI

## Sensitive Receivers

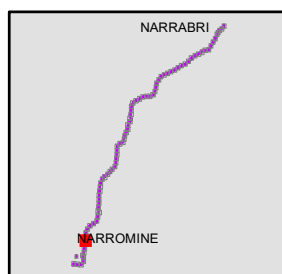
APPENDIX A - Map 11 of 84

500 m

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## Sensitive Receivers

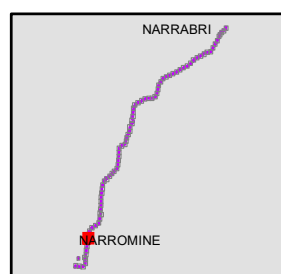
APPENDIX A - Map 12 of 84

500 m

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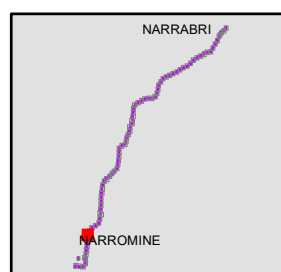
APPENDIX A - Map 13 of 84

500 m

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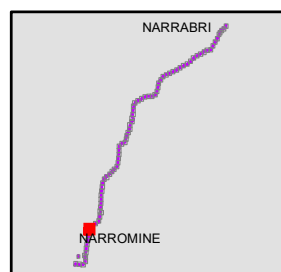
## APPENDIX A - Map 14 of 84

500 m

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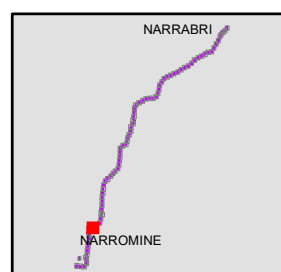
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500 m

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APPENDIX A - Map 16 of 84

500 m

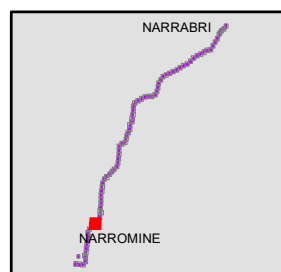
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### Sensitive Receivers

APPENDIX A - Map 17 of 84

500 m

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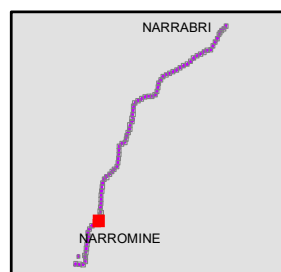
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## Sensitive Receivers

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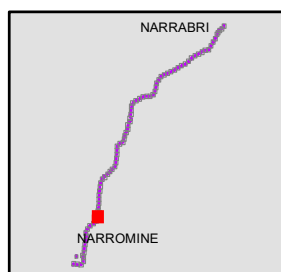
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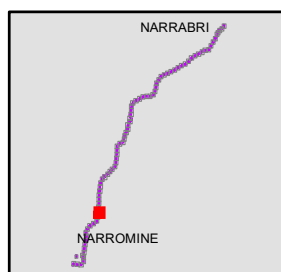
APPENDIX A - Map 19 of 84

500 m

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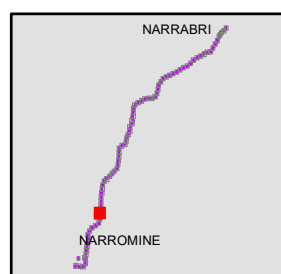
APPENDIX A - Map 20 of 84

500 m

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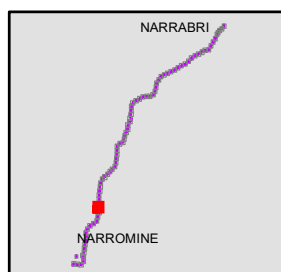
APPENDIX A - Map 21 of 84

500 m

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## NARROMINE TO NARRABRI

## Sensitive Receivers

APPENDIX A - Map 22 of 84

500 m

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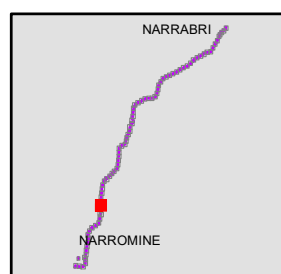
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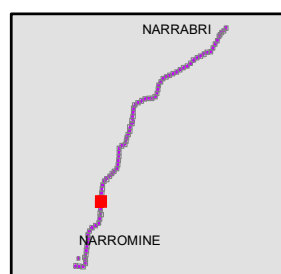
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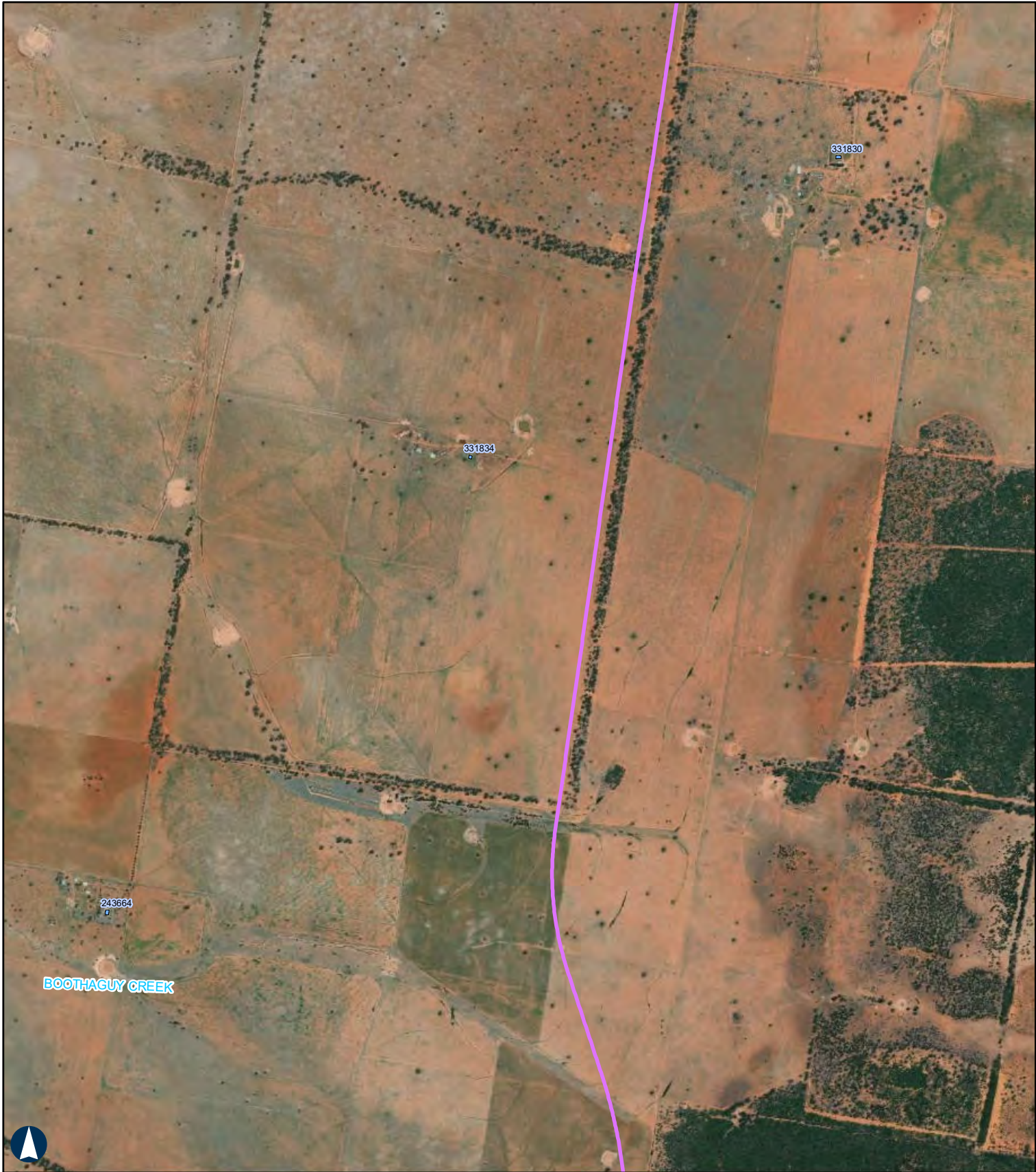
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges & Viaducts
- Sensitive Receivers



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## NARROMINE TO NARRABRI

## Sensitive Receivers

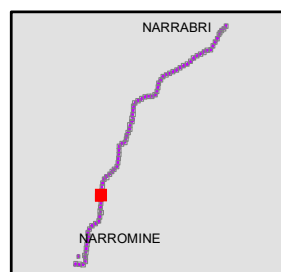
APPENDIX A - Map 24 of 84

500 m

Coordinate System: GDA 1994 MGA Zone 56

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- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges & Viaducts
- Sensitive Receivers



Paper: A4  
Date: 31-Jul-2020  
Author: JG  
Scale: 1:20,000

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## NARROMINE TO NARRABRI

## Sensitive Receivers

## APPENDIX A - Map 25 of 84

500 m

Coordinate System: GDA 1994 MGA Zone 56

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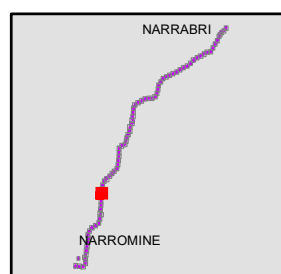
Paper: A4

Scale: 1:20,000

Date: 31-Jul-2020

Author: JG

- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges & Viaducts
- Sensitive Receivers



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## NARROMINE TO NARRABRI

## Sensitive Receivers

APPENDIX A - Map 26 of 84

500 m

Coordinate System: GDA 1994 MGA Zone 56

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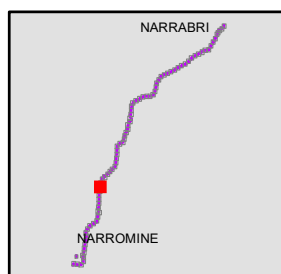
Paper: A4

Scale: 1:20,000

Date: 31-Jul-2020

Author: JG

- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges & Viaducts
- Sensitive Receivers



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## NARROMINE TO NARRABRI

## Sensitive Receivers

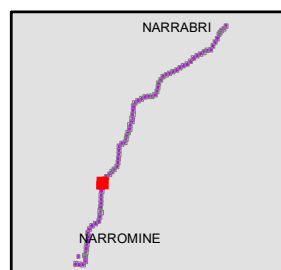
APPENDIX A - Map 27 of 84

500 m

Coordinate System: GDA 1994 MGA Zone 56

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- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges & Viaducts
- Sensitive Receivers



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Author: JG

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## NARROMINE TO NARRABRI

### Sensitive Receivers

APPENDIX A - Map 28 of 84

500 m

Coordinate System: GDA 1994 MGA Zone 56

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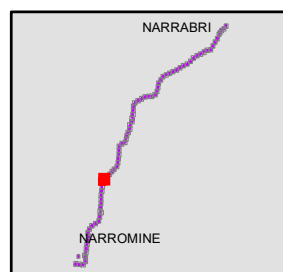
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Scale: 1:20,000

Date: 31-Jul-2020

Author: JG

- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges & Viaducts
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## NARROMINE TO NARRABRI

## Sensitive Receivers

APPENDIX A - Map 29 of 84

500 m

Coordinate System: GDA 1994 MGA Zone 56

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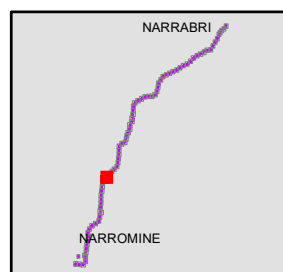
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Scale: 1:20,000

Date: 31-Jul-2020

Author: JG

- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges & Viaducts
- Sensitive Receivers



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## NARROMINE TO NARRABRI

## Sensitive Receivers

## APPENDIX A - Map 30 of 84

500 m

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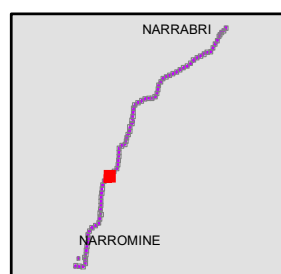
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Scale: 1:20,000

Date: 31-Jul-2020

Author: JG

- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges & Viaducts
- Sensitive Receivers



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## NARROMINE TO NARRABRI Sensitive Receivers

APPENDIX A - Map 31 of 84

500 m

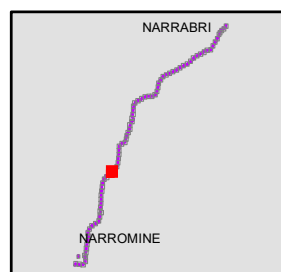
Coordinate System: GDA 1994 MGA Zone 56

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Scale: 1:20,000

- Proposal Extent
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- Bridges & Viaducts
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## NARROMINE TO NARRABRI

## Sensitive Receivers

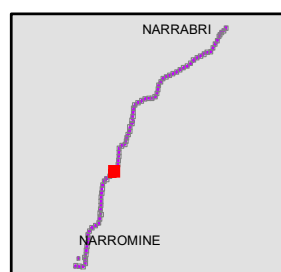
APPENDIX A - Map 32 of 84

500 m

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- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges & Viaducts
- Sensitive Receivers



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## NARROMINE TO NARRABRI

## Sensitive Receivers

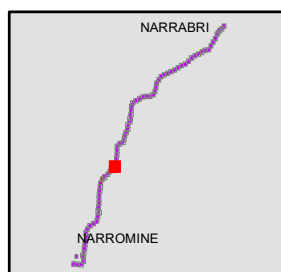
APPENDIX A - Map 33 of 84

500 m

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- Proposal Extent
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## Sensitive Receivers

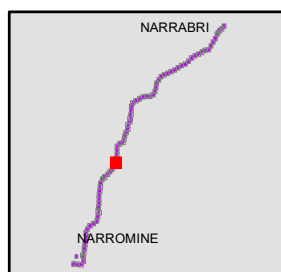
APPENDIX A - Map 34 of 84

500 m

Coordinate System: GDA 1994 MGA Zone 56

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- Proposal Extent
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## Sensitive Receivers

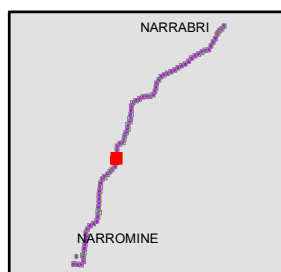
## APPENDIX A - Map 35 of 84

500 m

Coordinate System: GDA 1994 MGA Zone 56

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- Proposal Extent
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Date: 31-Jul-2020  
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## NARROMINE TO NARRABRI

## Sensitive Receivers

APPENDIX A - Map 36 of 84

500 m

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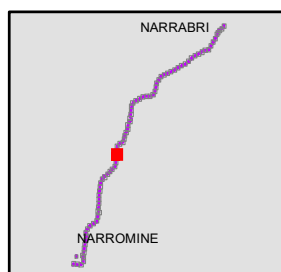
Paper: A4

Scale: 1:20,000

Date: 31-Jul-2020

Author: JG

- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges & Viaducts
- Sensitive Receivers



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## NARROMINE TO NARRABRI

## Sensitive Receivers

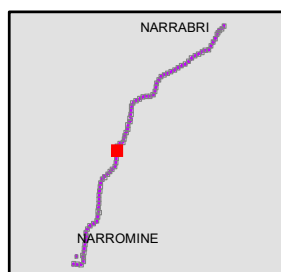
APPENDIX A - Map 37 of 84

500 m

Coordinate System: GDA 1994 MGA Zone 56

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- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges & Viaducts
- Sensitive Receivers



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## NARROMINE TO NARRABRI Sensitive Receivers

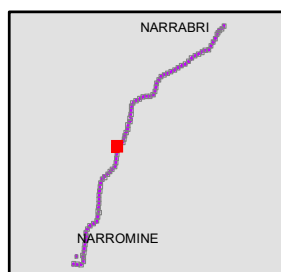
APPENDIX A - Map 38 of 84

500 m

Coordinate System: GDA 1994 MGA Zone 56

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- Proposal Extent
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## Sensitive Receivers

APPENDIX A - Map 39 of 84

500 m

Coordinate System: GDA 1994 MGA Zone 56

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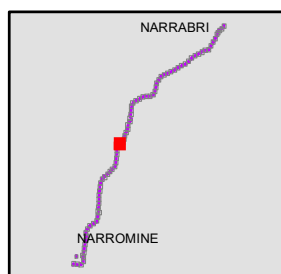
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Date: 31-Jul-2020

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- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
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Sensitive Receivers

APPENDIX A - Map 40 of 84

500 m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

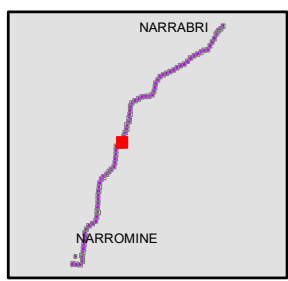
— Proposal Extent

— Crossing Loops

— Rail Alignment/Centreline

— Bridges & Viaducts

— Sensitive Receivers



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## Sensitive Receivers

APPENDIX A - Map 41 of 84

500 m

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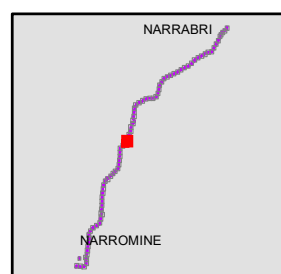
Paper: A4

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Date: 31-Jul-2020

Author: JG

- Proposal Extent
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## NARROMINE TO NARRABRI

## Sensitive Receivers

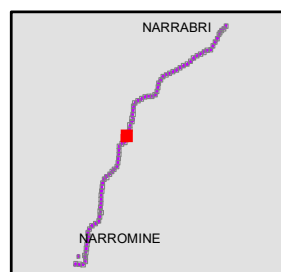
APPENDIX A - Map 42 of 84

500 m

Coordinate System: GDA 1994 MGA Zone 56

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- Proposal Extent
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## NARROMINE TO NARRABRI

## Sensitive Receivers

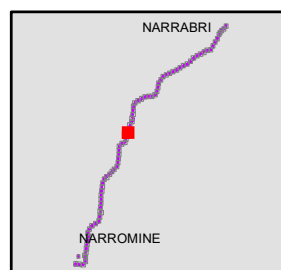
APPENDIX A - Map 43 of 84

500 m

Coordinate System: GDA 1994 MGA Zone 56

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## NARROMINE TO NARRABRI

## Sensitive Receivers

## APPENDIX A - Map 44 of 84

500 m

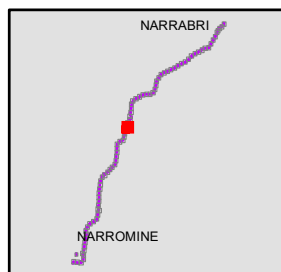
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Author: JG

Scale: 1:20,000

- Proposal Extent
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## NARROMINE TO NARRABRI

## Sensitive Receivers

APPENDIX A - Map 45 of 84

500 m

Coordinate System: GDA 1994 MGA Zone 56

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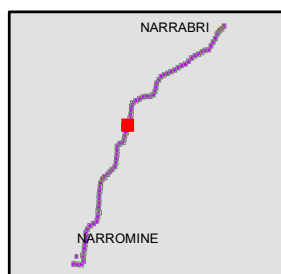
Paper: A4

Scale: 1:20,000

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Author: JG

- Proposal Extent
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## NARROMINE TO NARRABRI

## Sensitive Receivers

APPENDIX A - Map 46 of 84

500 m

Coordinate System: GDA 1994 MGA Zone 56

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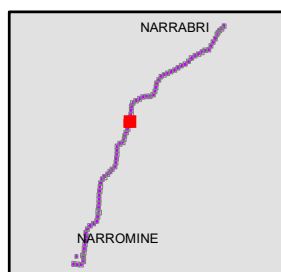
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Scale: 1:20,000

Date: 31-Jul-2020

Author: JG

- Proposal Extent
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## NARROMINE TO NARRABRI

## Sensitive Receivers

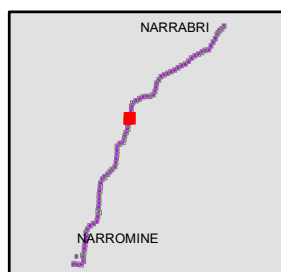
APPENDIX A - Map 47 of 84

500 m

Coordinate System: GDA 1994 MGA Zone 56

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- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- ▬ Bridges & Viaducts
- Sensitive Receivers



Paper: A4  
Date: 31-Jul-2020  
Author: JG

Scale: 1:20,000

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## NARROMINE TO NARRABRI

### Sensitive Receivers

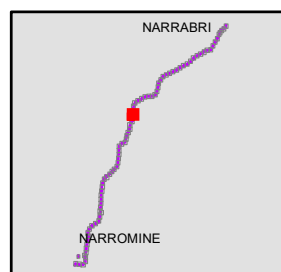
APPENDIX A - Map 48 of 84

500 m

Coordinate System: GDA 1994 MGA Zone 56

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- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges & Viaducts
- Sensitive Receivers



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Author: JG

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## NARROMINE TO NARRABRI

## Sensitive Receivers

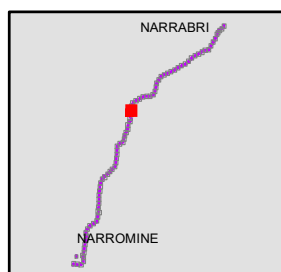
APPENDIX A - Map 49 of 84

500 m

Coordinate System: GDA 1994 MGA Zone 56

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- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges & Viaducts
- Sensitive Receivers



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## NARROMINE TO NARRABRI

## Sensitive Receivers

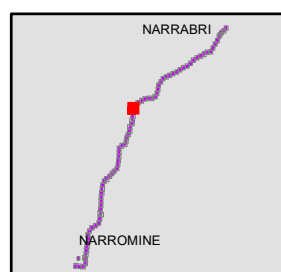
## APPENDIX A - Map 50 of 84

500 m

Coordinate System: GDA 1994 MGA Zone 56

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- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges & Viaducts
- Sensitive Receivers



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## NARROMINE TO NARRABRI Sensitive Receivers

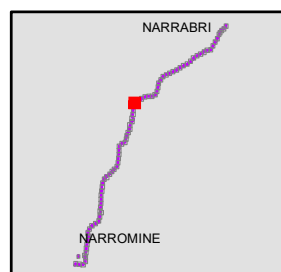
APPENDIX A - Map 51 of 84

500 m

Coordinate System: GDA 1994 MGA Zone 56

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- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges & Viaducts
- Sensitive Receivers



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## Sensitive Receivers

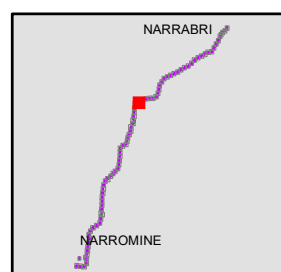
APPENDIX A - Map 52 of 84

500 m

Coordinate System: GDA 1994 MGA Zone 56

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- Proposal Extent
- Crossing Loops
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- Sensitive Receivers



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### Sensitive Receivers

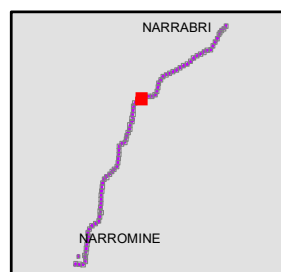
APPENDIX A - Map 53 of 84

500 m

Coordinate System: GDA 1994 MGA Zone 56

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- Proposal Extent
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## Sensitive Receivers

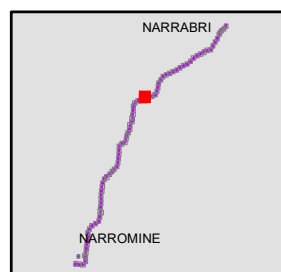
APPENDIX A - Map 54 of 84

500 m

Coordinate System: GDA 1994 MGA Zone 56

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- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges & Viaducts
- Sensitive Receivers



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## Sensitive Receivers

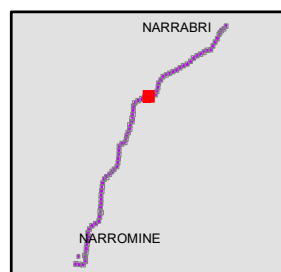
## APPENDIX A - Map 55 of 84

500 m

Coordinate System: GDA 1994 MGA Zone 56

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- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges & Viaducts
- Sensitive Receivers



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APPENDIX A - Map 56 of 84

500 m

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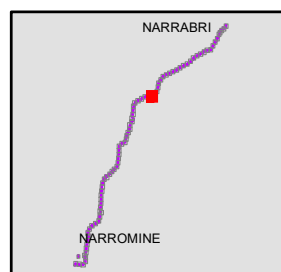
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Scale: 1:20,000

Date: 31-Jul-2020

Author: JG

- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
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- Sensitive Receivers



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## NARROMINE TO NARRABRI

## Sensitive Receivers

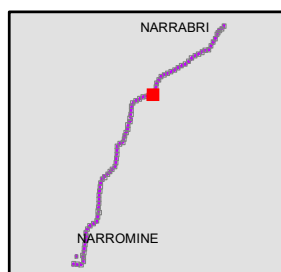
APPENDIX A - Map 57 of 84

500 m

Coordinate System: GDA 1994 MGA Zone 56

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- Proposal Extent
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- Rail Alignment/Centreline
- Bridges & Viaducts
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500 m

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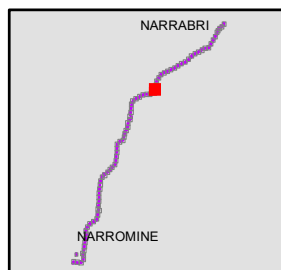
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Scale: 1:20,000

Date: 31-Jul-2020

Author: JG

- Proposal Extent
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## Sensitive Receivers

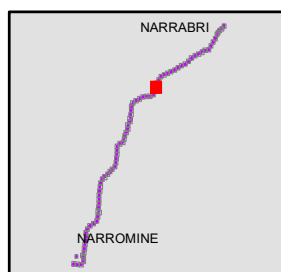
APPENDIX A - Map 59 of 84

500 m

Coordinate System: GDA 1994 MGA Zone 56

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- Proposal Extent
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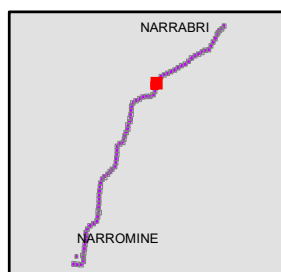
APPENDIX A - Map 60 of 84

500 m

Coordinate System: GDA 1994 MGA Zone 56

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- Proposal Extent
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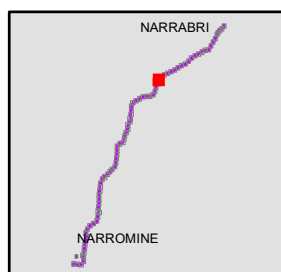
## APPENDIX A - Map 61 of 84

500 m

Coordinate System: GDA 1994 MGA Zone 56

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- Proposal Extent
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- Sensitive Receivers



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## NARROMINE TO NARRABRI

## Sensitive Receivers

## APPENDIX A - Map 62 of 84

500 m

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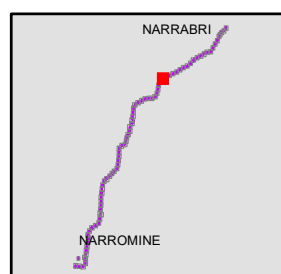
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Date: 31-Jul-2020

Author: JG

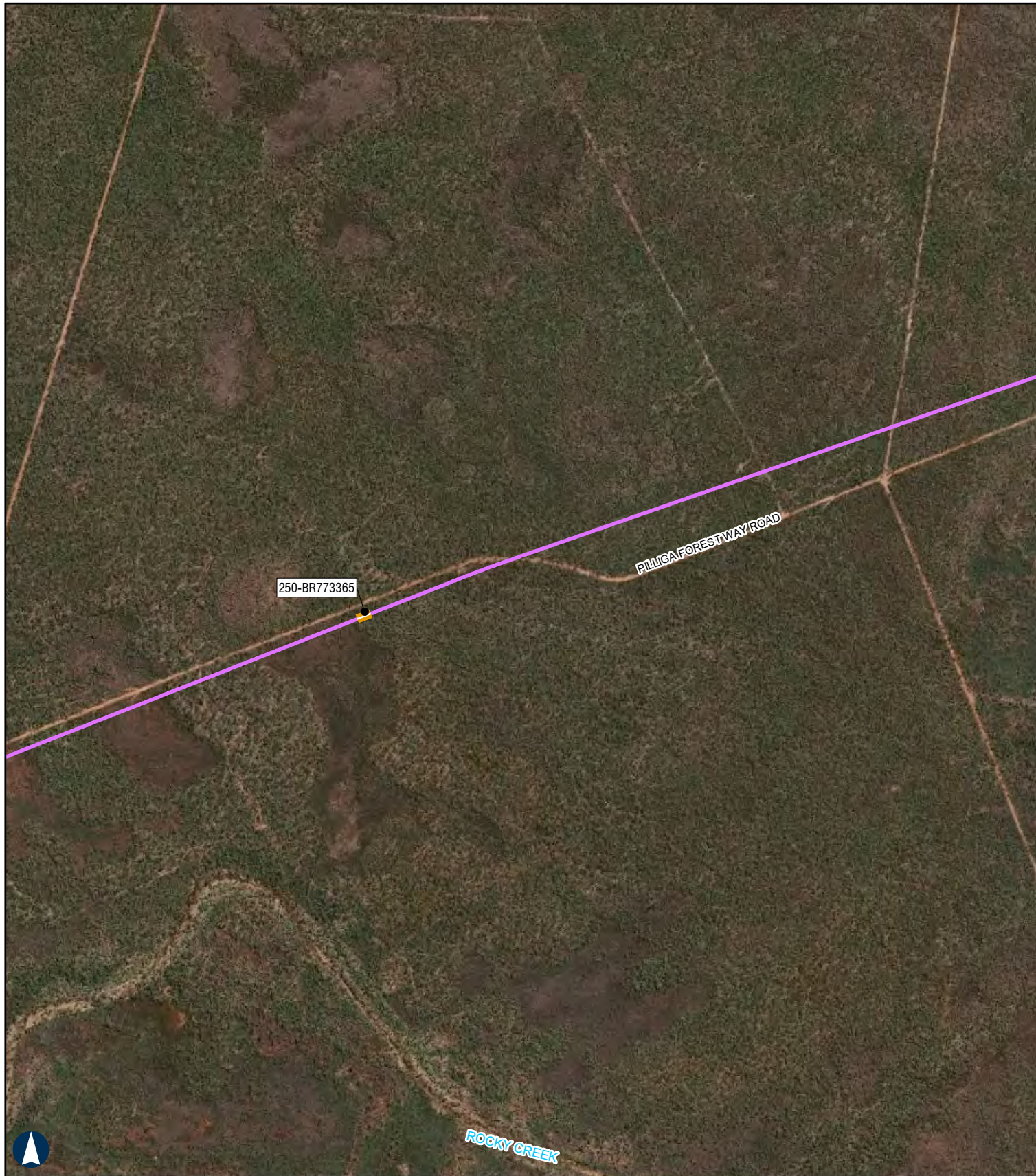
- Proposal Extent
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## Sensitive Receivers

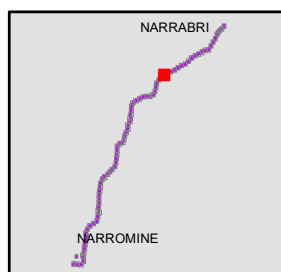
APPENDIX A - Map 63 of 84

500 m

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- Proposal Extent
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- Rail Alignment/Centreline
- Bridges & Viaducts
- Sensitive Receivers



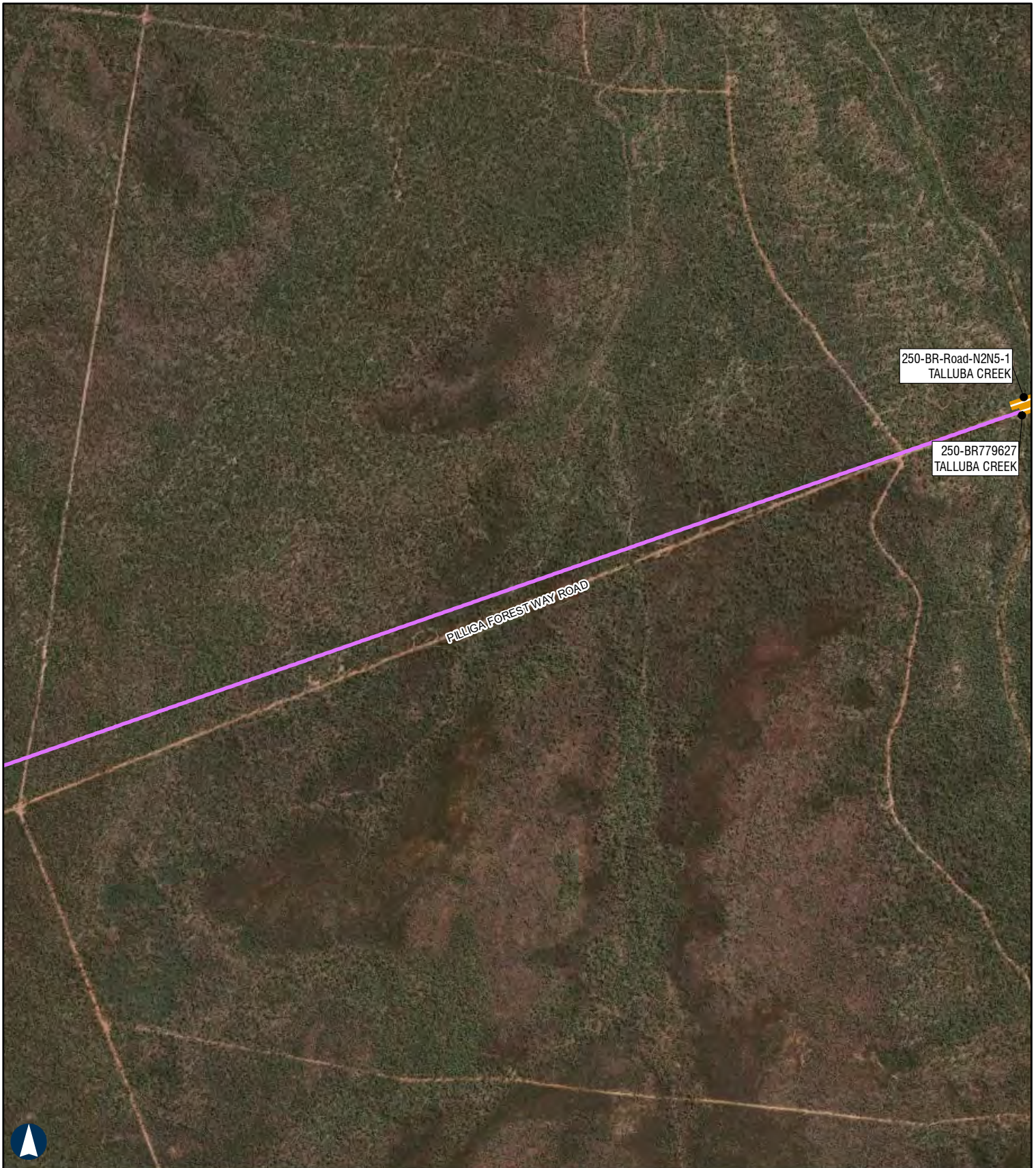
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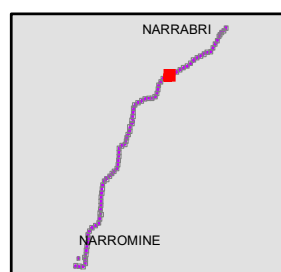
## APPENDIX A - Map 64 of 84

500 m

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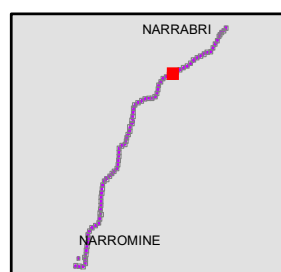
APPENDIX A - Map 65 of 84

500 m

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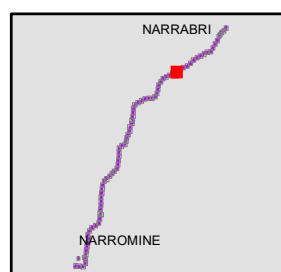
APPENDIX A - Map 66 of 84

500 m

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## NARROMINE TO NARRABRI

## Sensitive Receivers

APPENDIX A - Map 67 of 84

500 m

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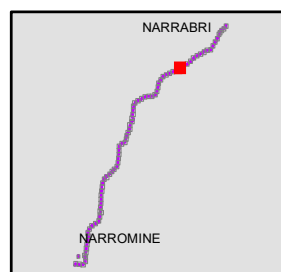
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Scale: 1:20,000

Date: 31-Jul-2020

Author: JG

- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
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## NARROMINE TO NARRABRI

### Sensitive Receivers

APPENDIX A - Map 68 of 84

500 m

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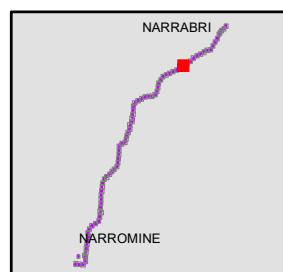
Paper: A4

Scale: 1:20,000

Date: 31-Jul-2020

Author: JG

- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
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- Sensitive Receivers



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## NARROMINE TO NARRABRI

## Sensitive Receivers

APPENDIX A - Map 69 of 84

500 m

Coordinate System: GDA 1994 MGA Zone 56

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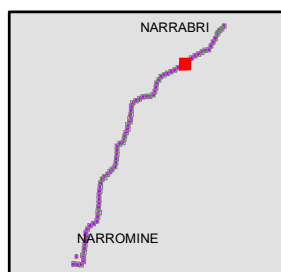
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Date: 31-Jul-2020

Author: JG

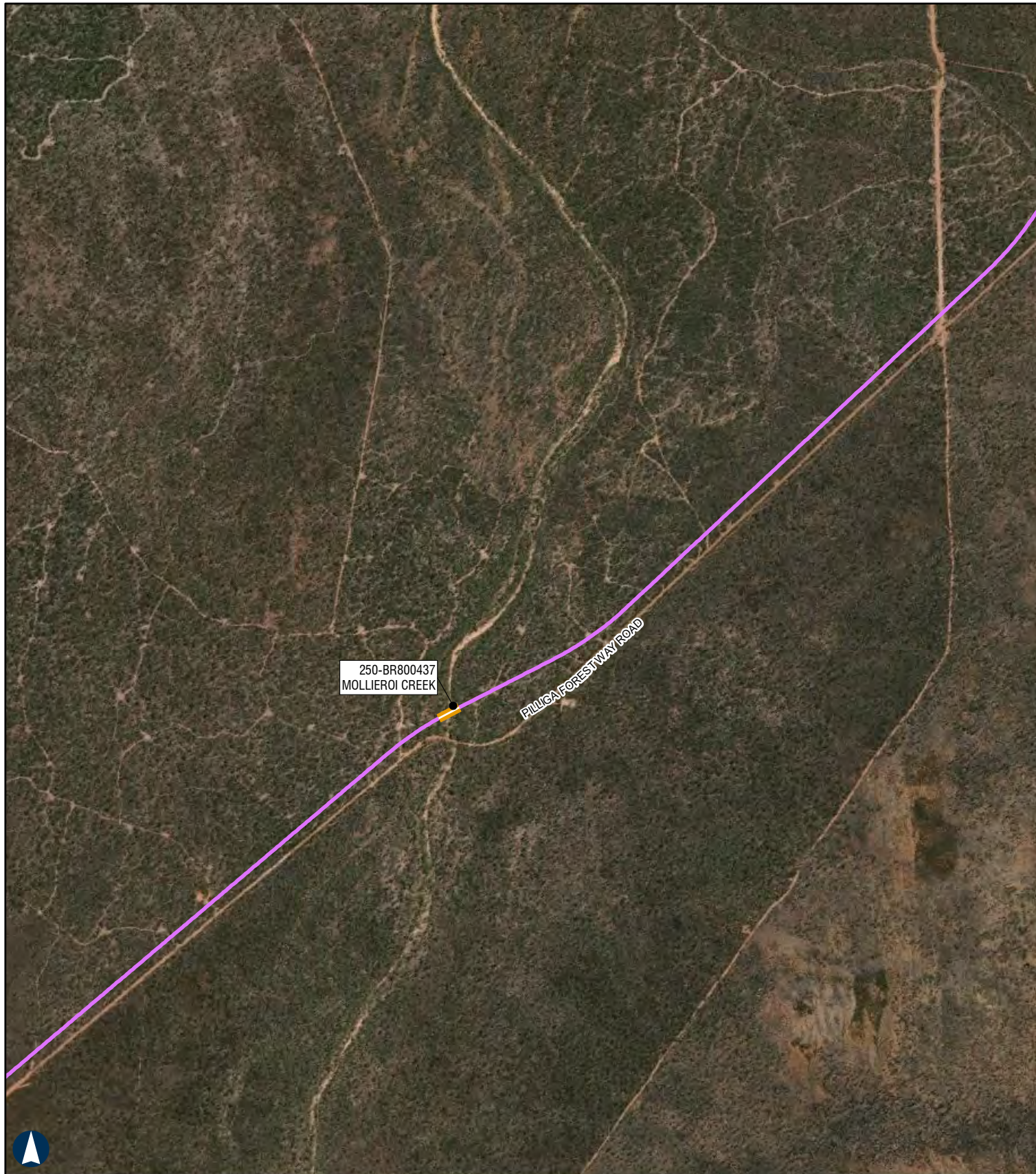
- Proposal Extent
- Crossing Loops
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- Bridges & Viaducts
- Sensitive Receivers



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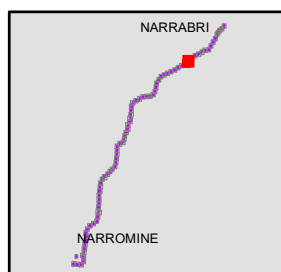
APPENDIX A - Map 70 of 84

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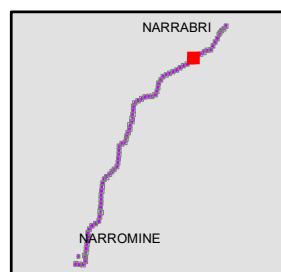
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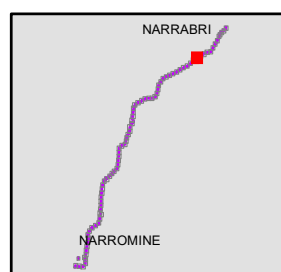
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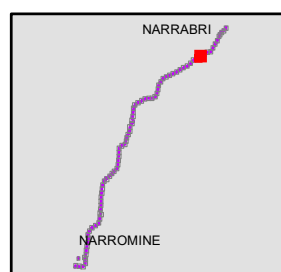
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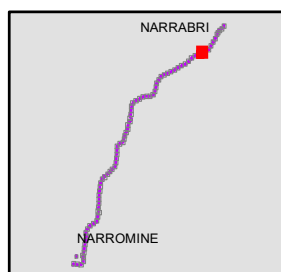
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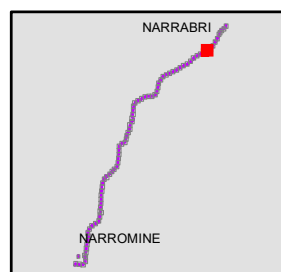
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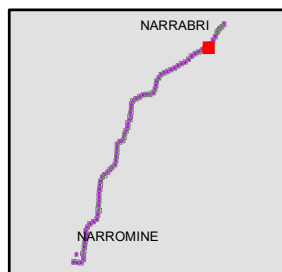
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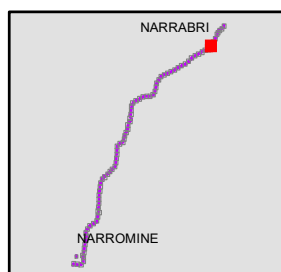
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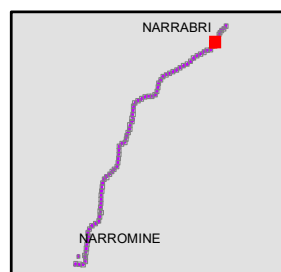
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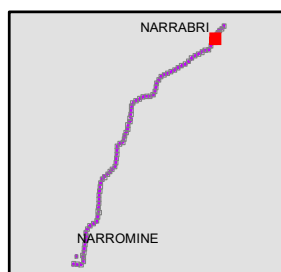
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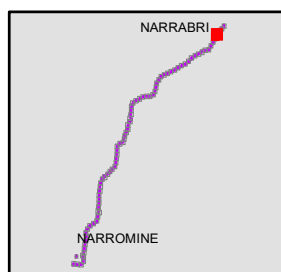
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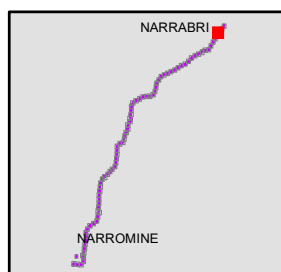
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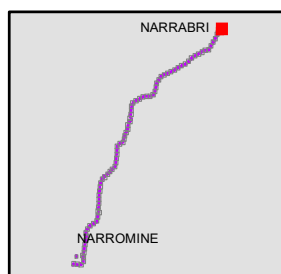
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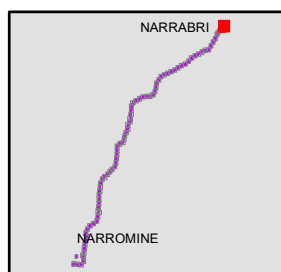
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# TECHNICAL REPORT

# 9

## Noise and vibration assessment – operational rail

### **Appendix B**    Noise prediction model verification

NARROMINE TO NARRABRI ENVIRONMENTAL IMPACT STATEMENT



## 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 have 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 assessment of railway noise on Inland Rail (refer **Table 21** of this report).

The methodology to predict railway noise has also been verified with reference to existing railway noise levels monitored by SLR at sections of existing railway operations that shall become part of Inland Rail in NSW. The details of the railway noise monitoring and noise model verification at three locations in NSW are provided in the following sections.

### Noise monitoring locations and methodology

The noise monitoring locations were selected based on the following criteria, designed to provide a consistent 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.
- Located approximately 15 m from the rail line to be representative of the nearest sensitive receivers 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 (general freight and intermodal 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 three nearby to Table Top, Henty and Wanitoool, as summarised in **Table B1**.

**Table B1 Noise monitoring locations in NSW**

| SLR ID | Location                                                                                                                 | Monitoring dates               | Equipment <sup>1,2</sup>           |
|--------|--------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------------------------------|
| 1      | 331 Perryman Lane, Table Top NSW.<br>15 m from the outer rail                                                            | 14 to 22 November 2018         | NGARA noise logger<br>(s/n 878000) |
| 2      | 262 Henty-Walla Road, Henty NSW.<br>15 m from the outer rail.                                                            | 14 to 22 November 2018         | NGARA noise logger<br>(s/n 8780C7) |
| 3      | 731 Ballengoarrah Lane, Wanitoool NSW.<br>13 m from the southbound outer rail and<br>17 m from the northbound outer rail | 29 November to 7 December 2018 | NGARA noise logger<br>(s/n 878042) |

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.

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  $1/10^{\text{th}}$  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 reached 10 dB above the background noise level at the time of each event.
- 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 not erroneous, activity nearby to the monitoring location.

### Monitored rail passbys

The sound exposure level (L<sub>A</sub>E) for each individually processed train passby was calculated as part of the analysis process. The discrete L<sub>A</sub>E of each identified Freight and XPT train are plotted in **Figure B1** and **Figure B2** below for the three monitoring locations.

The average L<sub>A</sub>E is plotted with comparison to the modelled value representative of a 1,000 m freight train with NR class locomotive, as per **Table 21**. The relevant existing train speeds at the monitoring locations were estimated from posted track speeds and site observations. Based on the distribution of data, both sides of the double-track at Wanitool are in use, while the other two monitoring locations represent single track conditions.

**Figure B1 Monitored freight train passby sound exposure levels**

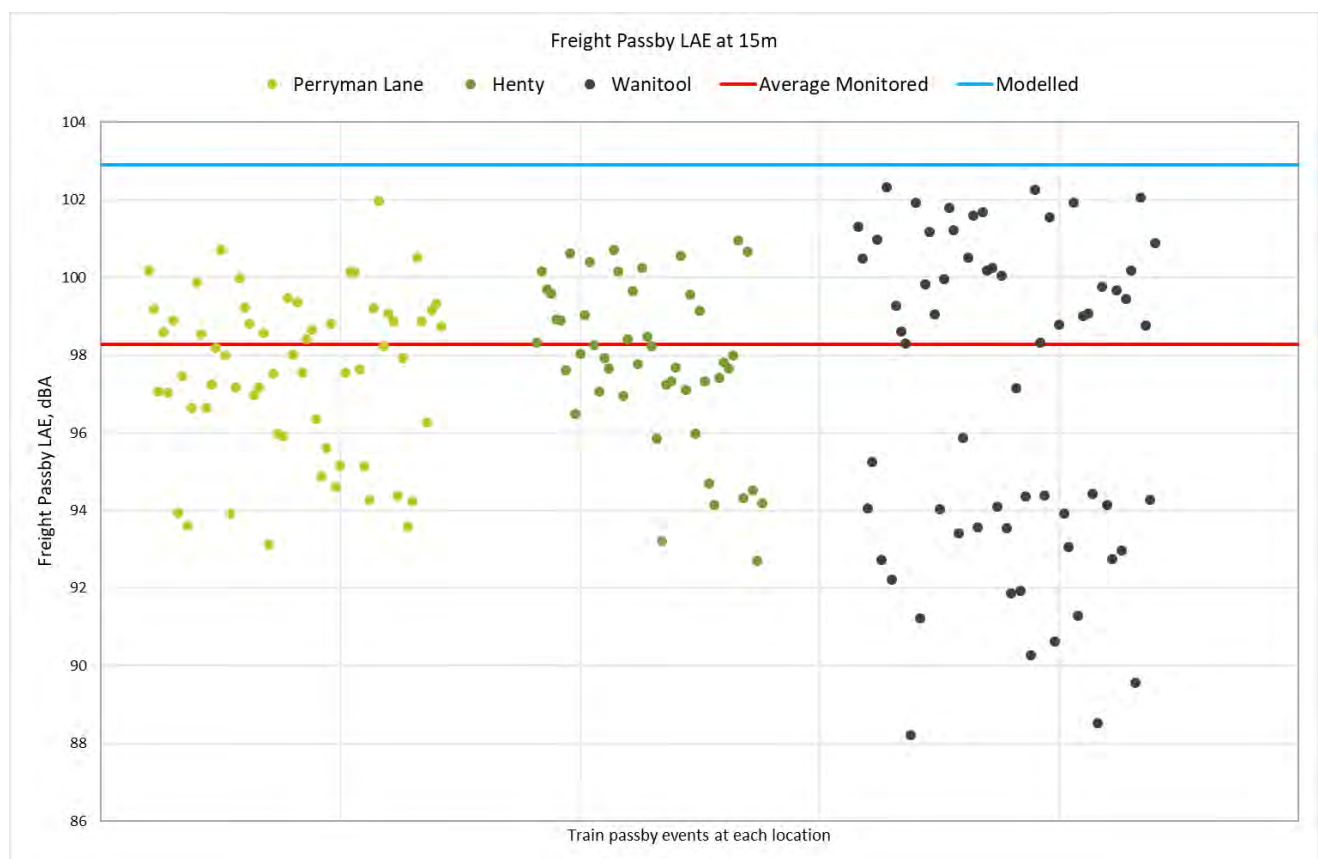
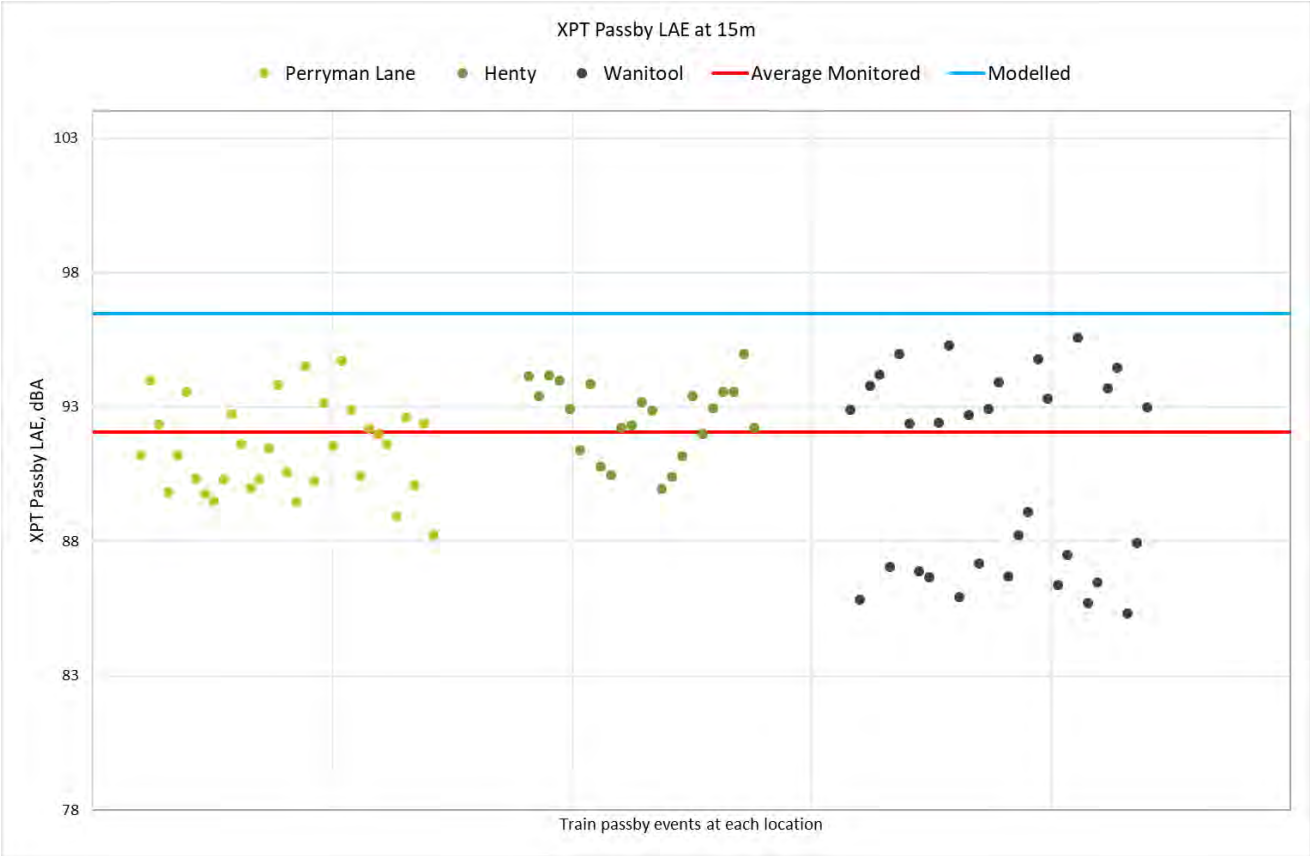




Figure B2 Monitored XPT train passby sound exposure levels



Monitored daily rail noise levels

The monitored daily LAeq railway noise levels at each monitoring location are detailed in the following table. The daily LAeq noise levels for validation are calculated from the noise level of each train passby, averaged over each day monitored and applied to the modelled number of trains on this section.

Weather data was referenced from the nearest Bureau of Meteorology weather stations to the monitoring locations. 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 daily railway noise levels, based on monitored data, at the locations at the monitoring locations are detailed in **Table B2**.

Table B2 Monitored daily railway noise levels

| Monitoring location | Monitored railway noise levels, dBA |             |
|---------------------|-------------------------------------|-------------|
|                     | Daytime                             | Night-time  |
|                     | LAeq(15hour)                        | LAeq(9hour) |
| Perryman Lane       | 61.5                                | 64.3        |
| Henty               | 60.6                                | 63.6        |
| Wanitoool           | 62.7                                | 65.4        |



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

- The daytime and night-time  $L_{Aeq}$  noise levels correlate closely between sites, with a total variability of approximately 2 dB. This reaffirms that the same rail traffic is dominant across all monitoring locations.
- The night-time  $L_{Aeq}$  noise levels are generally higher than the daytime  $L_{Aeq}$  noise levels, due to a similar volume of train passbys occurring over a shorter time period.
- The noise statistics are lower at Henty when compared with the other two monitoring locations. Given there were no local structures or geographical features to impede the propagation of railway noise, it was assumed that the train speeds in this section are lower than at the other monitoring locations.

### Noise modelling

To enable verification of the monitored noise levels, the SoundPLAN noise modelling method, 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 is provided in **Table B3**.

**Table B3 Noise modelling inputs**

| Noise model attribute        | Source data/ modelling approach                                                                                                                                                                                                                          |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Daily train movements        | As per the existing rail operations (volumes are consistent for day and night periods):<br>3 x Intermodal, 1 x Steel, 1 x General Freight, 1 x Grain – 1 and 2x XPT.                                                                                     |
| Rail line speeds             | Referencing the posted speed data and monitoring observations the freight train speeds were estimated as 110 km/h at Perryman Ln, 90 km/h in Henty and 115 km/h at Wanitoool.<br>The XPT speeds were estimated as 150 km/h for all monitoring locations. |
| 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 as per the existing consists.                                                                                                                                                                                                        |
| Passenger rail traffic       | Two XPT passenger train movements are included for both the day and night-time periods at all monitoring locations.                                                                                                                                      |
| Local environment            | 3-dimensional digital terrain models were developed for the environment at each monitoring location. Ground conditions were modelled as soft ground (ground absorption co-efficient of 0.6).                                                             |

### Noise model verification

The predicted and monitored  $L_{Aeq}$  railway noise levels at each location were compared as part of the noise model verification, as detailed in **Table B4**. The model was determined to be verified to a suitable accuracy where the predicted  $L_{Aeq}$  noise levels were within  $\pm 2$  dBA of the measured railway noise levels.

**Table B4 Modelled railway noise levels**

| Monitoring location | Monitored railway noise levels, dBA |               |
|---------------------|-------------------------------------|---------------|
|                     | Daytime                             | Night-time    |
|                     | $L_{Aeq,15hr}$                      | $L_{Aeq,9hr}$ |
| Perryman Lane       | 63.2                                | 65.2          |
| Henty               | 62.3                                | 64.2          |
| Wanitoool           | 64.1                                | 66.0          |



The monitored and modelled LAeq noise levels at each location were compared, as detailed in **Table B5**. The noise model validation was determined for all three noise monitoring locations. Overall, the LAeq noise levels verify within 2 dBA of the monitored LAeq noise levels during the daytime and night-time periods and achieves NSW guidelines on transport noise model validation.

At the EIS stage it is satisfactory to slightly 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 | Monitored railway noise levels, dBA |            |
|---------------------|-------------------------------------|------------|
|                     | Daytime                             | Night-time |
|                     | LAeq,15hr                           | LAeq,9hr   |
| Perryman Lane       | 1.6                                 | 0.9        |
| Henty               | 1.8                                 | 0.6        |
| Wanitool            | 1.3                                 | 0.6        |



# TECHNICAL REPORT

# 9

## Noise and vibration assessment – operational rail

### **Appendix C**    Noise and vibration from double-stacked freight consist

NARROMINE TO NARRABRI ENVIRONMENTAL IMPACT STATEMENT



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:

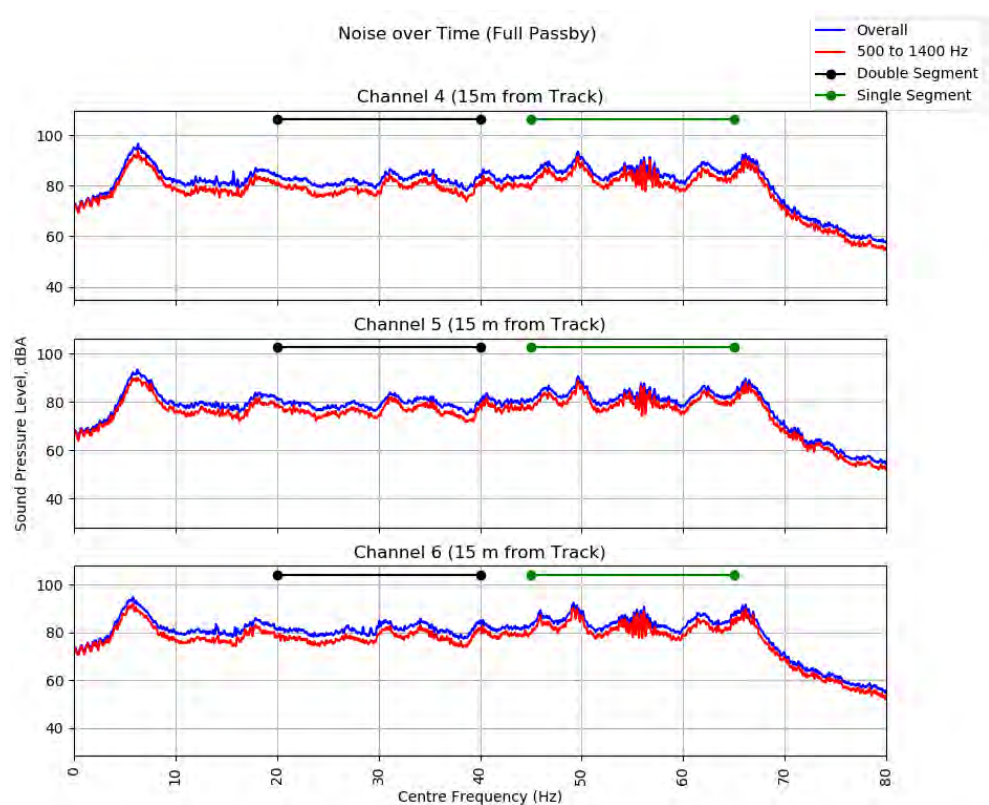
- Proportion of wagons with single and double stacked containers and where they are located.
- Number and position of empty wagons (no containers).
- Load of the individual wagons, which can vary from empty to the maximum load capacity.

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 been considered in the Inland Rail operational rail noise and vibration assessments (at the EIS stage).

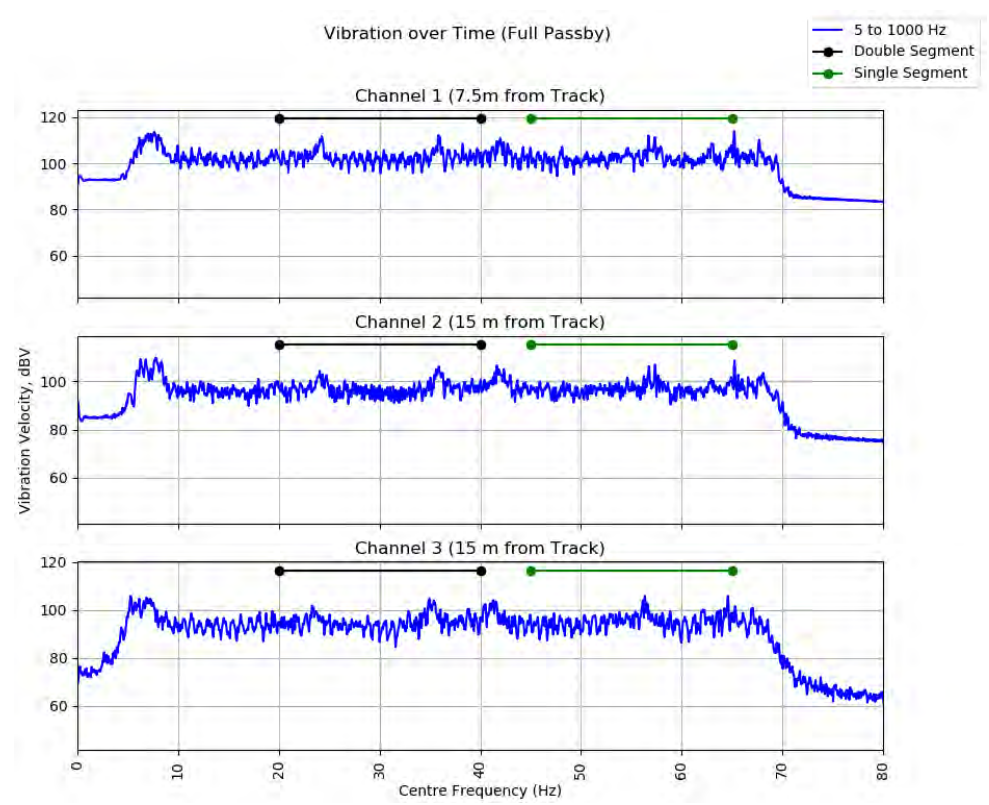


Figure C1 A-weighted noise levels for the entire train passby



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





# TECHNICAL REPORT

# 9

## Noise and vibration assessment – operational rail

### **Appendix D** Predicted airborne railway noise levels – year 2025 proposal opening

NARROMINE TO NARRABRI ENVIRONMENTAL IMPACT STATEMENT



The predicted railway noise levels at the commencement of railway operations in year 2025 are detailed in the following table and noise contour maps.

The predicted noise levels are provided for the identified sensitive receivers within the 2 km study area. This includes all sensitive receivers where the predicted noise levels triggered an investigation of noise mitigation.

Following the tabulated results are the predicted noise contour maps for the daytime and night-time railway operations at the proposal opening in year 2025. The noise contours have been presented as the daytime and night-time assessment criteria adopted from the RING. All noise contours are predicted at 2.4 m above the residual ground level.

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 receivers should be referenced when assessing railway noise levels against the criteria.



| Receptor ID | Rail noise criteria  |                        |                  | Project rail noise levels dBA |                       |                  |
|-------------|----------------------|------------------------|------------------|-------------------------------|-----------------------|------------------|
|             | L <sub>Aeq</sub> Day | L <sub>Aeq</sub> Night | L <sub>max</sub> | L <sub>Aeq</sub> ,15hr        | L <sub>Aeq</sub> ,9hr | L <sub>max</sub> |
| 239732      | 60                   | 55                     | 80               | 47                            | 51                    | 74               |
| 239733      | 60                   | 55                     | 80               | 48                            | 52                    | 76               |
| 239740      | 60                   | 55                     | 80               | 50                            | 53                    | 78               |
| 239748      | 60                   | 55                     | 80               | 47                            | 51                    | 76               |
| 239751      | 60                   | 55                     | 80               | 47                            | 51                    | 76               |
| 239764      | 60                   | 55                     | 80               | 46                            | 49                    | 73               |
| 239768      | 60                   | 55                     | 80               | 43                            | 47                    | 71               |
| 239781      | 60                   | 55                     | 80               | 39                            | 43                    | 68               |
| 243368      | 60                   | 55                     | 80               | 45                            | 49                    | 73               |
| 243378      | 60                   | 55                     | 80               | 49                            | 53                    | 78               |
| 243390      | 60                   | 55                     | 80               | 45                            | 49                    | 73               |
| 243394      | 60                   | 55                     | 80               | 41                            | 45                    | 69               |
| 243428      | 60                   | 55                     | 80               | 48                            | 52                    | 77               |
| 243429      | 60                   | 55                     | 80               | 49                            | 53                    | 77               |
| 243438      | 60                   | 55                     | 80               | 48                            | 51                    | 75               |
| 243471      | 60                   | 55                     | 80               | 55                            | <b>59</b>             | <b>84</b>        |
| 243473      | 60                   | 55                     | 80               | 53                            | <b>56</b>             | <b>82</b>        |
| 243487      | 60                   | 55                     | 80               | 46                            | 50                    | 73               |
| 243504      | 60                   | 55                     | 80               | 43                            | 47                    | 73               |
| 243563      | 60                   | 55                     | 80               | 35                            | 39                    | 61               |
| 243585      | 60                   | 55                     | 80               | 39                            | 43                    | 67               |
| 243591      | 60                   | 55                     | 80               | 41                            | 45                    | 70               |
| 243609      | 60                   | 55                     | 80               | 41                            | 45                    | 70               |
| 243664      | 60                   | 55                     | 80               | 43                            | 47                    | 70               |
| 243690      | 60                   | 55                     | 80               | 48                            | 51                    | 76               |
| 243754      | 60                   | 55                     | 80               | 45                            | 48                    | 73               |
| 243758      | 60                   | 55                     | 80               | 47                            | 51                    | 74               |
| 243772      | 60                   | 55                     | 80               | 51                            | 54                    | 78               |
| 243783      | 60                   | 55                     | 80               | 45                            | 48                    | 73               |
| 243791      | 60                   | 55                     | 80               | 52                            | <b>56</b>             | <b>81</b>        |
| 243829      | 60                   | 55                     | 80               | 48                            | 52                    | 76               |
| 243840      | 60                   | 55                     | 80               | 41                            | 45                    | 70               |
| 243844      | 60                   | 55                     | 80               | 45                            | 49                    | 73               |
| 243849      | 60                   | 55                     | 80               | 46                            | 50                    | 73               |
| 243853      | 60                   | 55                     | 80               | 47                            | 51                    | 74               |
| 243859      | 60                   | 55                     | 80               | 44                            | 48                    | 71               |
| 243862      | 60                   | 55                     | 80               | 47                            | 51                    | 75               |
| 243864      | 60                   | 55                     | 80               | 47                            | 51                    | 76               |
| 243867      | 60                   | 55                     | 80               | 48                            | 52                    | 76               |
| 243868      | 60                   | 55                     | 80               | 52                            | <b>56</b>             | <b>81</b>        |
| 243882      | 60                   | 55                     | 80               | 48                            | 52                    | 77               |
| 243884      | 60                   | 55                     | 80               | 49                            | 52                    | 77               |
| 243895      | 60                   | 55                     | 80               | 46                            | 49                    | 72               |
| 243898      | 60                   | 55                     | 80               | 45                            | 48                    | 72               |
| 243902      | 60                   | 55                     | 80               | 44                            | 47                    | 70               |
| 243906      | 60                   | 55                     | 80               | 51                            | 55                    | 80               |
| 243927      | 60                   | 55                     | 80               | 52                            | <b>56</b>             | <b>81</b>        |
| 243931      | 60                   | 55                     | 80               | 53                            | <b>57</b>             | <b>83</b>        |
| 243937      | 60                   | 55                     | 80               | 45                            | 49                    | 73               |
| 243951      | 60                   | 55                     | 80               | 46                            | 50                    | 74               |
| 243961      | 60                   | 55                     | 80               | 48                            | 51                    | 76               |
| 243977      | 60                   | 55                     | 80               | 50                            | 54                    | 79               |
| 243983      | 60                   | 55                     | 80               | 45                            | 48                    | 71               |
| 243987      | 60                   | 55                     | 80               | 46                            | 49                    | 72               |
| 243996      | 60                   | 55                     | 80               | 51                            | 55                    | 80               |
| 244012      | 60                   | 55                     | 80               | 44                            | 48                    | 72               |
| 244013      | 60                   | 55                     | 80               | 45                            | 49                    | 72               |



| Receptor ID | Rail noise criteria  |                        |                  | Project rail noise levels dBA |                       |                  |
|-------------|----------------------|------------------------|------------------|-------------------------------|-----------------------|------------------|
|             | L <sub>Aeq</sub> Day | L <sub>Aeq</sub> Night | L <sub>max</sub> | L <sub>Aeq</sub> ,15hr        | L <sub>Aeq</sub> ,9hr | L <sub>max</sub> |
| 244014      | 60                   | 55                     | 80               | 46                            | 50                    | 73               |
| 244038      | 60                   | 55                     | 80               | 44                            | 48                    | 71               |
| 244053      | 60                   | 55                     | 80               | 52                            | <b>56</b>             | 80               |
| 244057      | 60                   | 55                     | 80               | 51                            | 55                    | 80               |
| 244075      | 60                   | 55                     | 80               | 47                            | 51                    | 74               |
| 244093      | 60                   | 55                     | 80               | 47                            | 50                    | 75               |
| 244102      | 60                   | 55                     | 80               | 46                            | 50                    | 73               |
| 244118      | 60                   | 55                     | 80               | 47                            | 51                    | 75               |
| 244124      | 60                   | 55                     | 80               | 44                            | 48                    | 70               |
| 244131      | 60                   | 55                     | 80               | 45                            | 49                    | 73               |
| 244137      | 60                   | 55                     | 80               | 47                            | 50                    | 74               |
| 244173      | 60                   | 55                     | 80               | 48                            | 52                    | 76               |
| 244201      | 60                   | 55                     | 80               | 47                            | 51                    | 76               |
| 244211      | 60                   | 55                     | 80               | 46                            | 50                    | 75               |
| 244214      | 60                   | 55                     | 80               | 45                            | 48                    | 73               |
| 244225      | 60                   | 55                     | 80               | 44                            | 48                    | 73               |
| 244234      | 60                   | 55                     | 80               | 41                            | 45                    | 69               |
| 244255      | 60                   | 55                     | 80               | 39                            | 43                    | 66               |
| 244284      | 60                   | 55                     | 80               | 43                            | 47                    | 71               |
| 244309      | 60                   | 55                     | 80               | 52                            | 55                    | <b>81</b>        |
| 244329      | 60                   | 55                     | 80               | 43                            | 47                    | 70               |
| 244376      | 60                   | 55                     | 80               | 45                            | 49                    | 71               |
| 244394      | 60                   | 55                     | 80               | 43                            | 46                    | 71               |
| 244401      | 60                   | 55                     | 80               | 43                            | 46                    | 72               |
| 244419      | 60                   | 55                     | 80               | 47                            | 51                    | 75               |
| 244422      | 60                   | 55                     | 80               | 43                            | 46                    | 70               |
| 244437      | 60                   | 55                     | 80               | 42                            | 45                    | 70               |
| 244449      | 60                   | 55                     | 80               | 40                            | 44                    | 67               |
| 244465      | 60                   | 55                     | 80               | 48                            | 52                    | 76               |
| 244483      | 60                   | 55                     | 80               | 47                            | 50                    | 75               |
| 244492      | 60                   | 55                     | 80               | 44                            | 47                    | 70               |
| 244498      | 60                   | 55                     | 80               | 47                            | 50                    | 75               |
| 244510      | 60                   | 55                     | 80               | 47                            | 50                    | 74               |
| 244531      | 60                   | 55                     | 80               | 48                            | 51                    | 75               |
| 244536      | 60                   | 55                     | 80               | 44                            | 48                    | 72               |
| 244547      | 60                   | 55                     | 80               | 49                            | 53                    | 78               |
| 244554      | 60                   | 55                     | 80               | 46                            | 50                    | 75               |
| 244568      | 60                   | 55                     | 80               | 45                            | 48                    | 72               |
| 244983      | 60                   | 55                     | 80               | 47                            | 51                    | 75               |
| 244994      | 60                   | 55                     | 80               | 46                            | 50                    | 75               |
| 245002      | 60                   | 55                     | 80               | 43                            | 47                    | 70               |
| 245004      | 60                   | 55                     | 80               | 42                            | 46                    | 69               |
| 245009      | 60                   | 55                     | 80               | 48                            | 51                    | 75               |
| 245034      | 60                   | 55                     | 80               | 44                            | 48                    | 72               |
| 245042      | 60                   | 55                     | 80               | 45                            | 49                    | 73               |
| 245044      | 60                   | 55                     | 80               | 46                            | 50                    | 74               |
| 245046      | 60                   | 55                     | 80               | 46                            | 49                    | 74               |
| 245047      | 60                   | 55                     | 80               | 45                            | 49                    | 74               |
| 245048      | 60                   | 55                     | 80               | 46                            | 50                    | 75               |
| 245053      | 60                   | 55                     | 80               | 48                            | 51                    | 76               |
| 245066      | 60                   | 55                     | 80               | 43                            | 47                    | 72               |
| 245067      | 60                   | 55                     | 80               | 41                            | 45                    | 69               |
| 245073      | 60                   | 55                     | 80               | 43                            | 47                    | 72               |
| 245074      | 60                   | 55                     | 80               | 41                            | 45                    | 68               |
| 245077      | 60                   | 55                     | 80               | 43                            | 46                    | 70               |
| 245078      | 60                   | 55                     | 80               | 43                            | 47                    | 72               |
| 245081      | 60                   | 55                     | 80               | 43                            | 47                    | 71               |



| Receptor ID | Rail noise criteria |            |       | Project rail noise levels dBA |          |       |
|-------------|---------------------|------------|-------|-------------------------------|----------|-------|
|             | LAeq Day            | LAeq Night | Lamax | LAeq,15hr                     | LAeq,9hr | Lamax |
| 245083      | 60                  | 55         | 80    | 43                            | 46       | 70    |
| 245084      | 60                  | 55         | 80    | 43                            | 47       | 71    |
| 245088      | 60                  | 55         | 80    | 44                            | 48       | 72    |
| 245090      | 60                  | 55         | 80    | 42                            | 46       | 70    |
| 245091      | 60                  | 55         | 80    | 43                            | 46       | 70    |
| 245093      | 60                  | 55         | 80    | 44                            | 48       | 72    |
| 245096      | 60                  | 55         | 80    | 43                            | 46       | 70    |
| 245097      | 60                  | 55         | 80    | 44                            | 47       | 71    |
| 245103      | 60                  | 55         | 80    | 43                            | 47       | 71    |
| 245104      | 60                  | 55         | 80    | 45                            | 49       | 73    |
| 245105      | 60                  | 55         | 80    | 42                            | 46       | 69    |
| 245106      | 60                  | 55         | 80    | 43                            | 46       | 70    |
| 245107      | 60                  | 55         | 80    | 44                            | 47       | 72    |
| 245113      | 60                  | 55         | 80    | 42                            | 46       | 70    |
| 245114      | 60                  | 55         | 80    | 46                            | 50       | 74    |
| 245115      | 60                  | 55         | 80    | 43                            | 47       | 70    |
| 245118      | 60                  | 55         | 80    | 43                            | 46       | 70    |
| 245120      | 60                  | 55         | 80    | 42                            | 46       | 70    |
| 245126      | 60                  | 55         | 80    | 42                            | 46       | 70    |
| 245128      | 60                  | 55         | 80    | 42                            | 46       | 70    |
| 245132      | 60                  | 55         | 80    | 43                            | 46       | 70    |
| 245135      | 60                  | 55         | 80    | 43                            | 46       | 70    |
| 245138      | 60                  | 55         | 80    | 43                            | 47       | 71    |
| 245139      | 60                  | 55         | 80    | 43                            | 47       | 70    |
| 245142      | 60                  | 55         | 80    | 42                            | 46       | 69    |
| 245144      | 60                  | 55         | 80    | 42                            | 46       | 70    |
| 245146      | 60                  | 55         | 80    | 44                            | 47       | 71    |
| 245150      | 60                  | 55         | 80    | 43                            | 46       | 70    |
| 245155      | 60                  | 55         | 80    | 44                            | 47       | 71    |
| 245156      | 60                  | 55         | 80    | 43                            | 47       | 72    |
| 245159      | 60                  | 55         | 80    | 41                            | 44       | 67    |
| 245161      | 60                  | 55         | 80    | 46                            | 49       | 74    |
| 245162      | 60                  | 55         | 80    | 44                            | 48       | 72    |
| 245164      | 60                  | 55         | 80    | 45                            | 49       | 71    |
| 245170      | 60                  | 55         | 80    | 45                            | 49       | 73    |
| 245171      | 60                  | 55         | 80    | 43                            | 46       | 70    |
| 245172      | 60                  | 55         | 80    | 44                            | 48       | 72    |
| 245175      | 60                  | 55         | 80    | 43                            | 46       | 70    |
| 245181      | 60                  | 55         | 80    | 43                            | 47       | 71    |
| 245182      | 60                  | 55         | 80    | 46                            | 49       | 73    |
| 245184      | 60                  | 55         | 80    | 44                            | 48       | 71    |
| 245185      | 60                  | 55         | 80    | 43                            | 46       | 70    |
| 245186      | 60                  | 55         | 80    | 43                            | 47       | 71    |
| 245188      | 60                  | 55         | 80    | 43                            | 47       | 70    |
| 245189      | 60                  | 55         | 80    | 44                            | 47       | 71    |
| 245190      | 60                  | 55         | 80    | 42                            | 46       | 69    |
| 245191      | 60                  | 55         | 80    | 44                            | 47       | 71    |
| 245194      | 60                  | 55         | 80    | 43                            | 46       | 70    |
| 245197      | 60                  | 55         | 80    | 44                            | 48       | 72    |
| 245198      | 60                  | 55         | 80    | 42                            | 46       | 69    |
| 245199      | 60                  | 55         | 80    | 44                            | 47       | 72    |
| 245200      | 60                  | 55         | 80    | 40                            | 44       | 67    |
| 245201      | 60                  | 55         | 80    | 44                            | 47       | 71    |
| 245203      | 60                  | 55         | 80    | 43                            | 46       | 70    |
| 245204      | 60                  | 55         | 80    | 44                            | 47       | 71    |
| 245205      | 60                  | 55         | 80    | 44                            | 47       | 72    |
| 245206      | 60                  | 55         | 80    | 40                            | 44       | 68    |



| Receptor ID | Rail noise criteria |            |       | Project rail noise levels dBA |          |       |
|-------------|---------------------|------------|-------|-------------------------------|----------|-------|
|             | LAeq Day            | LAeq Night | Lamax | LAeq,15hr                     | LAeq,9hr | Lamax |
| 245208      | 60                  | 55         | 80    | 44                            | 48       | 72    |
| 245209      | 60                  | 55         | 80    | 46                            | 49       | 74    |
| 245210      | 60                  | 55         | 80    | 47                            | 51       | 76    |
| 245211      | 60                  | 55         | 80    | 44                            | 48       | 70    |
| 245212      | 60                  | 55         | 80    | 42                            | 46       | 68    |
| 245213      | 60                  | 55         | 80    | 43                            | 47       | 70    |
| 245214      | 60                  | 55         | 80    | 44                            | 48       | 72    |
| 245215      | 60                  | 55         | 80    | 40                            | 43       | 67    |
| 245216      | 60                  | 55         | 80    | 43                            | 46       | 70    |
| 245218      | 60                  | 55         | 80    | 44                            | 47       | 71    |
| 245219      | 60                  | 55         | 80    | 43                            | 47       | 70    |
| 245224      | 60                  | 55         | 80    | 44                            | 47       | 71    |
| 245225      | 60                  | 55         | 80    | 43                            | 46       | 69    |
| 245228      | 60                  | 55         | 80    | 40                            | 43       | 66    |
| 245232      | 60                  | 55         | 80    | 43                            | 46       | 70    |
| 245233      | 60                  | 55         | 80    | 42                            | 46       | 69    |
| 245234      | 60                  | 55         | 80    | 45                            | 48       | 73    |
| 245235      | 60                  | 55         | 80    | 41                            | 45       | 68    |
| 245237      | 60                  | 55         | 80    | 43                            | 47       | 70    |
| 245240      | 60                  | 55         | 80    | 43                            | 46       | 70    |
| 245241      | 60                  | 55         | 80    | 45                            | 48       | 73    |
| 245244      | 60                  | 55         | 80    | 45                            | 48       | 72    |
| 245246      | 60                  | 55         | 80    | 45                            | 49       | 72    |
| 245248      | 60                  | 55         | 80    | 42                            | 46       | 68    |
| 245251      | 60                  | 55         | 80    | 46                            | 49       | 74    |
| 245252      | 60                  | 55         | 80    | 43                            | 47       | 70    |
| 245255      | 60                  | 55         | 80    | 40                            | 43       | 67    |
| 245258      | 60                  | 55         | 80    | 43                            | 47       | 71    |
| 245259      | 60                  | 55         | 80    | 45                            | 49       | 71    |
| 245262      | 60                  | 55         | 80    | 43                            | 46       | 70    |
| 245265      | 60                  | 55         | 80    | 42                            | 45       | 70    |
| 245268      | 60                  | 55         | 80    | 44                            | 48       | 71    |
| 245269      | 60                  | 55         | 80    | 38                            | 41       | 64    |
| 245274      | 60                  | 55         | 80    | 42                            | 46       | 69    |
| 245275      | 60                  | 55         | 80    | 39                            | 43       | 66    |
| 245276      | 60                  | 55         | 80    | 45                            | 48       | 72    |
| 245279      | 60                  | 55         | 80    | 43                            | 46       | 71    |
| 245280      | 60                  | 55         | 80    | 41                            | 45       | 68    |
| 245283      | 60                  | 55         | 80    | 44                            | 48       | 70    |
| 245285      | 60                  | 55         | 80    | 41                            | 44       | 67    |
| 245286      | 60                  | 55         | 80    | 42                            | 46       | 70    |
| 245289      | 60                  | 55         | 80    | 38                            | 42       | 64    |
| 245290      | 60                  | 55         | 80    | 45                            | 48       | 72    |
| 245294      | 60                  | 55         | 80    | 45                            | 48       | 72    |
| 245295      | 60                  | 55         | 80    | 43                            | 47       | 71    |
| 245296      | 60                  | 55         | 80    | 42                            | 46       | 70    |
| 245298      | 60                  | 55         | 80    | 42                            | 45       | 68    |
| 245299      | 60                  | 55         | 80    | 42                            | 46       | 70    |
| 245300      | 60                  | 55         | 80    | 41                            | 44       | 67    |
| 245309      | 60                  | 55         | 80    | 43                            | 47       | 70    |
| 245311      | 60                  | 55         | 80    | 44                            | 47       | 70    |
| 245312      | 60                  | 55         | 80    | 42                            | 45       | 68    |
| 245313      | 60                  | 55         | 80    | 43                            | 47       | 70    |
| 245314      | 60                  | 55         | 80    | 42                            | 46       | 70    |
| 245316      | 60                  | 55         | 80    | 41                            | 44       | 68    |
| 245317      | 60                  | 55         | 80    | 39                            | 43       | 65    |
| 245319      | 60                  | 55         | 80    | 39                            | 42       | 65    |



| Receptor ID | Rail noise criteria |            |       | Project rail noise levels dBA |          |       |
|-------------|---------------------|------------|-------|-------------------------------|----------|-------|
|             | LAeq Day            | LAeq Night | Lamax | LAeq,15hr                     | LAeq,9hr | Lamax |
| 245321      | 60                  | 55         | 80    | 42                            | 46       | 70    |
| 245323      | 60                  | 55         | 80    | 40                            | 44       | 67    |
| 245324      | 60                  | 55         | 80    | 42                            | 46       | 70    |
| 245325      | 60                  | 55         | 80    | 40                            | 44       | 68    |
| 245328      | 60                  | 55         | 80    | 41                            | 45       | 69    |
| 245330      | 60                  | 55         | 80    | 42                            | 46       | 69    |
| 245334      | 60                  | 55         | 80    | 45                            | 48       | 72    |
| 245336      | 60                  | 55         | 80    | 39                            | 43       | 65    |
| 245337      | 60                  | 55         | 80    | 41                            | 45       | 68    |
| 245339      | 60                  | 55         | 80    | 47                            | 50       | 73    |
| 245340      | 60                  | 55         | 80    | 43                            | 47       | 70    |
| 245341      | 60                  | 55         | 80    | 43                            | 46       | 70    |
| 245344      | 60                  | 55         | 80    | 45                            | 48       | 72    |
| 245345      | 60                  | 55         | 80    | 43                            | 46       | 70    |
| 245346      | 60                  | 55         | 80    | 42                            | 45       | 69    |
| 245349      | 60                  | 55         | 80    | 43                            | 47       | 71    |
| 245351      | 60                  | 55         | 80    | 42                            | 46       | 70    |
| 245352      | 60                  | 55         | 80    | 43                            | 47       | 70    |
| 245353      | 60                  | 55         | 80    | 42                            | 46       | 70    |
| 245354      | 60                  | 55         | 80    | 40                            | 43       | 67    |
| 245355      | 60                  | 55         | 80    | 40                            | 43       | 66    |
| 245356      | 60                  | 55         | 80    | 44                            | 47       | 71    |
| 245357      | 60                  | 55         | 80    | 43                            | 46       | 71    |
| 245358      | 60                  | 55         | 80    | 46                            | 49       | 74    |
| 245359      | 60                  | 55         | 80    | 39                            | 43       | 66    |
| 245360      | 60                  | 55         | 80    | 40                            | 44       | 65    |
| 245361      | 60                  | 55         | 80    | 44                            | 47       | 72    |
| 245362      | 60                  | 55         | 80    | 41                            | 44       | 67    |
| 245366      | 60                  | 55         | 80    | 38                            | 42       | 65    |
| 245367      | 60                  | 55         | 80    | 44                            | 48       | 71    |
| 245368      | 60                  | 55         | 80    | 39                            | 42       | 67    |
| 245371      | 60                  | 55         | 80    | 41                            | 45       | 68    |
| 245372      | 60                  | 55         | 80    | 41                            | 44       | 67    |
| 245374      | 60                  | 55         | 80    | 46                            | 50       | 73    |
| 245376      | 60                  | 55         | 80    | 41                            | 44       | 67    |
| 245378      | 60                  | 55         | 80    | 41                            | 45       | 68    |
| 245381      | 60                  | 55         | 80    | 46                            | 49       | 74    |
| 245382      | 60                  | 55         | 80    | 41                            | 45       | 68    |
| 245385      | 60                  | 55         | 80    | 37                            | 40       | 65    |
| 245387      | 60                  | 55         | 80    | 41                            | 44       | 67    |
| 245391      | 60                  | 55         | 80    | 41                            | 44       | 68    |
| 245393      | 60                  | 55         | 80    | 42                            | 46       | 69    |
| 245395      | 60                  | 55         | 80    | 46                            | 50       | 73    |
| 245396      | 60                  | 55         | 80    | 42                            | 45       | 69    |
| 245399      | 60                  | 55         | 80    | 40                            | 44       | 68    |
| 245400      | 60                  | 55         | 80    | 42                            | 45       | 69    |
| 245401      | 60                  | 55         | 80    | 43                            | 46       | 71    |
| 245403      | 60                  | 55         | 80    | 41                            | 44       | 67    |
| 245404      | 60                  | 55         | 80    | 40                            | 44       | 67    |
| 245411      | 60                  | 55         | 80    | 40                            | 44       | 66    |
| 245412      | 60                  | 55         | 80    | 43                            | 47       | 70    |
| 245415      | 60                  | 55         | 80    | 41                            | 44       | 67    |
| 245416      | 60                  | 55         | 80    | 44                            | 47       | 72    |
| 245418      | 60                  | 55         | 80    | 40                            | 43       | 66    |
| 245419      | 60                  | 55         | 80    | 40                            | 44       | 67    |
| 245422      | 60                  | 55         | 80    | 42                            | 45       | 69    |
| 245423      | 60                  | 55         | 80    | 43                            | 47       | 70    |



| Receptor ID | Rail noise criteria  |                        |                   | Project rail noise levels dBA |                       |                   |
|-------------|----------------------|------------------------|-------------------|-------------------------------|-----------------------|-------------------|
|             | L <sub>Aeq</sub> Day | L <sub>Aeq</sub> Night | L <sub>amax</sub> | L <sub>Aeq</sub> ,15hr        | L <sub>Aeq</sub> ,9hr | L <sub>amax</sub> |
| 245424      | 60                   | 55                     | 80                | 45                            | 49                    | 73                |
| 245429      | 60                   | 55                     | 80                | 45                            | 48                    | 73                |
| 245430      | 60                   | 55                     | 80                | 40                            | 44                    | 66                |
| 245431      | 60                   | 55                     | 80                | 41                            | 45                    | 69                |
| 245432      | 60                   | 55                     | 80                | 59                            | <b>63</b>             | <b>88</b>         |
| 245434      | 60                   | 55                     | 80                | 45                            | 48                    | 72                |
| 245438      | 60                   | 55                     | 80                | 47                            | 50                    | 76                |
| 245439      | 60                   | 55                     | 80                | 42                            | 45                    | 70                |
| 245440      | 60                   | 55                     | 80                | 44                            | 48                    | 72                |
| 245441      | 60                   | 55                     | 80                | 42                            | 45                    | 69                |
| 245442      | 60                   | 55                     | 80                | 46                            | 50                    | 74                |
| 245443      | 60                   | 55                     | 80                | 47                            | 50                    | 75                |
| 245445      | 60                   | 55                     | 80                | 42                            | 46                    | 69                |
| 245446      | 60                   | 55                     | 80                | 41                            | 45                    | 69                |
| 245447      | 60                   | 55                     | 80                | 41                            | 45                    | 69                |
| 245449      | 60                   | 55                     | 80                | 42                            | 46                    | 70                |
| 245451      | 60                   | 55                     | 80                | 42                            | 45                    | 70                |
| 245452      | 60                   | 55                     | 80                | 46                            | 50                    | 74                |
| 245453      | 60                   | 55                     | 80                | 42                            | 46                    | 69                |
| 245454      | 60                   | 55                     | 80                | 55                            | <b>59</b>             | <b>84</b>         |
| 245455      | 60                   | 55                     | 80                | 41                            | 45                    | 69                |
| 245456      | 60                   | 55                     | 80                | 43                            | 47                    | 71                |
| 245459      | 60                   | 55                     | 80                | 60                            | <b>63</b>             | <b>89</b>         |
| 245462      | 60                   | 55                     | 80                | 51                            | 54                    | 80                |
| 245463      | 60                   | 55                     | 80                | 42                            | 46                    | 70                |
| 245466      | 60                   | 55                     | 80                | 42                            | 46                    | 69                |
| 245469      | 60                   | 55                     | 80                | 42                            | 46                    | 69                |
| 245470      | 60                   | 55                     | 80                | 42                            | 45                    | 69                |
| 245471      | 60                   | 55                     | 80                | 43                            | 47                    | 70                |
| 245474      | 60                   | 55                     | 80                | 44                            | 48                    | 72                |
| 245475      | 60                   | 55                     | 80                | 44                            | 47                    | 71                |
| 245476      | 60                   | 55                     | 80                | 43                            | 47                    | 71                |
| 245477      | 60                   | 55                     | 80                | 46                            | 50                    | 74                |
| 245478      | 60                   | 55                     | 80                | 44                            | 48                    | 72                |
| 245480      | 60                   | 55                     | 80                | 44                            | 48                    | 72                |
| 245481      | 60                   | 55                     | 80                | 45                            | 48                    | 72                |
| 245484      | 60                   | 55                     | 80                | 45                            | 48                    | 73                |
| 245485      | 60                   | 55                     | 80                | 43                            | 46                    | 70                |
| 245488      | 60                   | 55                     | 80                | 43                            | 47                    | 69                |
| 245489      | 60                   | 55                     | 80                | 45                            | 49                    | 73                |
| 245490      | 60                   | 55                     | 80                | 43                            | 47                    | 71                |
| 245491      | 60                   | 55                     | 80                | 45                            | 48                    | 72                |
| 245494      | 60                   | 55                     | 80                | 46                            | 50                    | 74                |
| 245496      | 60                   | 55                     | 80                | 46                            | 50                    | 73                |
| 245497      | 60                   | 55                     | 80                | 47                            | 50                    | 74                |
| 245502      | 60                   | 55                     | 80                | 44                            | 48                    | 72                |
| 245512      | 60                   | 55                     | 80                | 60                            | <b>63</b>             | <b>89</b>         |
| 245517      | 60                   | 55                     | 80                | 59                            | <b>62</b>             | <b>90</b>         |
| 245520      | 60                   | 55                     | 80                | 42                            | 45                    | 68                |
| 245523      | 60                   | 55                     | 80                | 53                            | <b>56</b>             | <b>82</b>         |
| 245524      | 60                   | 55                     | 80                | 57                            | <b>61</b>             | <b>87</b>         |
| 245541      | 60                   | 55                     | 80                | 54                            | <b>57</b>             | <b>82</b>         |
| 245542      | 60                   | 55                     | 80                | 44                            | 48                    | 71                |
| 245543      | 60                   | 55                     | 80                | 43                            | 47                    | 69                |
| 245544      | 60                   | 55                     | 80                | 51                            | 55                    | 80                |
| 245553      | 60                   | 55                     | 80                | 45                            | 48                    | 71                |
| 245558      | 60                   | 55                     | 80                | 46                            | 49                    | 73                |



| Receptor ID | Rail noise criteria |            |       | Project rail noise levels dBA |          |       |
|-------------|---------------------|------------|-------|-------------------------------|----------|-------|
|             | LAeq Day            | LAeq Night | Lamax | LAeq,15hr                     | LAeq,9hr | Lamax |
| 245578      | 60                  | 55         | 80    | 47                            | 51       | 75    |
| 245579      | 60                  | 55         | 80    | 45                            | 49       | 72    |
| 245580      | 60                  | 55         | 80    | 44                            | 48       | 71    |
| 245586      | 60                  | 55         | 80    | 47                            | 50       | 76    |
| 245588      | 60                  | 55         | 80    | 38                            | 42       | 67    |
| 245591      | 60                  | 55         | 80    | 39                            | 42       | 68    |
| 245593      | 60                  | 55         | 80    | 44                            | 47       | 72    |
| 245601      | 60                  | 55         | 80    | 44                            | 47       | 71    |
| 245604      | 60                  | 55         | 80    | 40                            | 44       | 68    |
| 245605      | 60                  | 55         | 80    | 40                            | 44       | 68    |
| 245606      | 60                  | 55         | 80    | 41                            | 44       | 69    |
| 245608      | 60                  | 55         | 80    | 40                            | 44       | 68    |
| 245611      | 60                  | 55         | 80    | 42                            | 45       | 70    |
| 245612      | 60                  | 55         | 80    | 41                            | 45       | 68    |
| 245615      | 60                  | 55         | 80    | 43                            | 47       | 70    |
| 245617      | 60                  | 55         | 80    | 46                            | 50       | 73    |
| 245619      | 60                  | 55         | 80    | 42                            | 45       | 70    |
| 245629      | 60                  | 55         | 80    | 41                            | 44       | 68    |
| 245631      | 60                  | 55         | 80    | 40                            | 44       | 68    |
| 245635      | 60                  | 55         | 80    | 41                            | 45       | 70    |
| 245638      | 60                  | 55         | 80    | 47                            | 51       | 75    |
| 245639      | 60                  | 55         | 80    | 47                            | 51       | 75    |
| 245641      | 60                  | 55         | 80    | 41                            | 44       | 68    |
| 245643      | 60                  | 55         | 80    | 41                            | 44       | 68    |
| 245644      | 60                  | 55         | 80    | 39                            | 43       | 68    |
| 245645      | 60                  | 55         | 80    | 42                            | 45       | 70    |
| 245646      | 60                  | 55         | 80    | 41                            | 45       | 69    |
| 245650      | 60                  | 55         | 80    | 44                            | 47       | 72    |
| 245651      | 60                  | 55         | 80    | 41                            | 45       | 68    |
| 245658      | 60                  | 55         | 80    | 43                            | 47       | 71    |
| 245660      | 60                  | 55         | 80    | 41                            | 45       | 69    |
| 245662      | 60                  | 55         | 80    | 45                            | 48       | 72    |
| 245663      | 60                  | 55         | 80    | 43                            | 47       | 71    |
| 245664      | 60                  | 55         | 80    | 43                            | 47       | 70    |
| 245666      | 60                  | 55         | 80    | 43                            | 47       | 70    |
| 245677      | 60                  | 55         | 80    | 38                            | 41       | 64    |
| 245697      | 60                  | 55         | 80    | 36                            | 40       | 64    |
| 245705      | 60                  | 55         | 80    | 38                            | 42       | 65    |
| 245706      | 60                  | 55         | 80    | 38                            | 42       | 65    |
| 245707      | 60                  | 55         | 80    | 43                            | 47       | 71    |
| 245709      | 60                  | 55         | 80    | 36                            | 40       | 63    |
| 245713      | 60                  | 55         | 80    | 37                            | 41       | 64    |
| 245717      | 60                  | 55         | 80    | 38                            | 42       | 65    |
| 245718      | 60                  | 55         | 80    | 36                            | 40       | 63    |
| 245721      | 60                  | 55         | 80    | 39                            | 42       | 65    |
| 245722      | 60                  | 55         | 80    | 37                            | 40       | 64    |
| 245727      | 60                  | 55         | 80    | 38                            | 42       | 65    |
| 245728      | 60                  | 55         | 80    | 42                            | 45       | 70    |
| 245737      | 60                  | 55         | 80    | 39                            | 42       | 66    |
| 245741      | 60                  | 55         | 80    | 38                            | 42       | 66    |
| 245749      | 60                  | 55         | 80    | 39                            | 43       | 66    |
| 245754      | 60                  | 55         | 80    | 37                            | 40       | 64    |
| 245757      | 60                  | 55         | 80    | 43                            | 47       | 72    |
| 245758      | 60                  | 55         | 80    | 39                            | 43       | 67    |
| 245759      | 60                  | 55         | 80    | 39                            | 43       | 65    |
| 245760      | 60                  | 55         | 80    | 38                            | 41       | 65    |
| 245770      | 60                  | 55         | 80    | 39                            | 42       | 65    |



| Receptor ID | Rail noise criteria  |                        |                  | Project rail noise levels dBA |                       |                  |
|-------------|----------------------|------------------------|------------------|-------------------------------|-----------------------|------------------|
|             | L <sub>Aeq</sub> Day | L <sub>Aeq</sub> Night | L <sub>max</sub> | L <sub>Aeq</sub> ,15hr        | L <sub>Aeq</sub> ,9hr | L <sub>max</sub> |
| 245772      | 60                   | 55                     | 80               | 39                            | 42                    | 66               |
| 245780      | 60                   | 55                     | 80               | 38                            | 41                    | 65               |
| 245788      | 60                   | 55                     | 80               | 39                            | 42                    | 65               |
| 245790      | 60                   | 55                     | 80               | 38                            | 42                    | 65               |
| 245794      | 60                   | 55                     | 80               | 39                            | 42                    | 66               |
| 245795      | 60                   | 55                     | 80               | 43                            | 46                    | 71               |
| 245806      | 60                   | 55                     | 80               | 38                            | 42                    | 65               |
| 245808      | 60                   | 55                     | 80               | 39                            | 43                    | 67               |
| 245820      | 60                   | 55                     | 80               | 42                            | 46                    | 70               |
| 245821      | 60                   | 55                     | 80               | 38                            | 42                    | 65               |
| 245825      | 60                   | 55                     | 80               | 39                            | 43                    | 66               |
| 245827      | 60                   | 55                     | 80               | 39                            | 42                    | 65               |
| 245831      | 60                   | 55                     | 80               | 37                            | 40                    | 64               |
| 245833      | 60                   | 55                     | 80               | 39                            | 42                    | 66               |
| 245836      | 60                   | 55                     | 80               | 37                            | 41                    | 64               |
| 245840      | 60                   | 55                     | 80               | 38                            | 42                    | 65               |
| 245848      | 60                   | 55                     | 80               | 42                            | 46                    | 70               |
| 245851      | 60                   | 55                     | 80               | 39                            | 43                    | 66               |
| 245852      | 60                   | 55                     | 80               | 37                            | 41                    | 63               |
| 245856      | 60                   | 55                     | 80               | 39                            | 43                    | 67               |
| 245858      | 60                   | 55                     | 80               | 38                            | 42                    | 65               |
| 245861      | 60                   | 55                     | 80               | 39                            | 43                    | 66               |
| 245865      | 60                   | 55                     | 80               | 41                            | 44                    | 69               |
| 245866      | 60                   | 55                     | 80               | 39                            | 43                    | 66               |
| 245870      | 60                   | 55                     | 80               | 40                            | 43                    | 66               |
| 245871      | 60                   | 55                     | 80               | 40                            | 44                    | 68               |
| 245877      | 60                   | 55                     | 80               | 41                            | 45                    | 69               |
| 245878      | 60                   | 55                     | 80               | 38                            | 42                    | 65               |
| 245882      | 60                   | 55                     | 80               | 38                            | 42                    | 66               |
| 245885      | 60                   | 55                     | 80               | 43                            | 47                    | 71               |
| 245886      | 60                   | 55                     | 80               | 39                            | 43                    | 67               |
| 245887      | 60                   | 55                     | 80               | 39                            | 43                    | 68               |
| 245889      | 60                   | 55                     | 80               | 39                            | 42                    | 65               |
| 245891      | 60                   | 55                     | 80               | 39                            | 43                    | 67               |
| 245895      | 60                   | 55                     | 80               | 41                            | 45                    | 70               |
| 245897      | 60                   | 55                     | 80               | 39                            | 43                    | 67               |
| 245899      | 60                   | 55                     | 80               | 38                            | 42                    | 67               |
| 245901      | 60                   | 55                     | 80               | 40                            | 43                    | 69               |
| 245902      | 60                   | 55                     | 80               | 40                            | 44                    | 68               |
| 245903      | 60                   | 55                     | 80               | 39                            | 43                    | 67               |
| 245906      | 60                   | 55                     | 80               | 40                            | 43                    | 67               |
| 245910      | 60                   | 55                     | 80               | 42                            | 45                    | 69               |
| 245912      | 60                   | 55                     | 80               | 40                            | 44                    | 70               |
| 245914      | 60                   | 55                     | 80               | 42                            | 45                    | 70               |
| 245915      | 60                   | 55                     | 80               | 40                            | 44                    | 67               |
| 245917      | 60                   | 55                     | 80               | 41                            | 45                    | 70               |
| 245918      | 60                   | 55                     | 80               | 40                            | 44                    | 67               |
| 245923      | 60                   | 55                     | 80               | 40                            | 43                    | 68               |
| 245924      | 60                   | 55                     | 80               | 44                            | 47                    | 72               |
| 245925      | 60                   | 55                     | 80               | 37                            | 41                    | 66               |
| 245926      | 60                   | 55                     | 80               | 41                            | 45                    | 69               |
| 245933      | 60                   | 55                     | 80               | 41                            | 44                    | 69               |
| 245934      | 60                   | 55                     | 80               | 41                            | 45                    | 69               |
| 245935      | 60                   | 55                     | 80               | 40                            | 44                    | 67               |
| 245936      | 60                   | 55                     | 80               | 38                            | 42                    | 65               |
| 245940      | 60                   | 55                     | 80               | 42                            | 45                    | 70               |
| 245942      | 60                   | 55                     | 80               | 41                            | 45                    | 70               |



| Receptor ID | Rail noise criteria  |                        |                  | Project rail noise levels dBA |                       |                  |
|-------------|----------------------|------------------------|------------------|-------------------------------|-----------------------|------------------|
|             | L <sub>Aeq</sub> Day | L <sub>Aeq</sub> Night | L <sub>max</sub> | L <sub>Aeq</sub> ,15hr        | L <sub>Aeq</sub> ,9hr | L <sub>max</sub> |
| 245945      | 60                   | 55                     | 80               | 42                            | 45                    | 68               |
| 245950      | 60                   | 55                     | 80               | 39                            | 43                    | 66               |
| 245951      | 60                   | 55                     | 80               | 40                            | 44                    | 69               |
| 245953      | 60                   | 55                     | 80               | 40                            | 44                    | 68               |
| 245954      | 60                   | 55                     | 80               | 43                            | 47                    | 71               |
| 245956      | 60                   | 55                     | 80               | 40                            | 44                    | 69               |
| 245958      | 60                   | 55                     | 80               | 41                            | 44                    | 69               |
| 245959      | 60                   | 55                     | 80               | 41                            | 45                    | 69               |
| 245965      | 60                   | 55                     | 80               | 41                            | 45                    | 70               |
| 245966      | 60                   | 55                     | 80               | 39                            | 43                    | 67               |
| 245972      | 60                   | 55                     | 80               | 41                            | 45                    | 69               |
| 245974      | 60                   | 55                     | 80               | 44                            | 47                    | 72               |
| 245977      | 60                   | 55                     | 80               | 39                            | 43                    | 67               |
| 245978      | 60                   | 55                     | 80               | 40                            | 44                    | 69               |
| 245979      | 60                   | 55                     | 80               | 41                            | 45                    | 68               |
| 245980      | 60                   | 55                     | 80               | 42                            | 45                    | 69               |
| 245981      | 60                   | 55                     | 80               | 40                            | 44                    | 67               |
| 245982      | 60                   | 55                     | 80               | 40                            | 44                    | 67               |
| 245992      | 60                   | 55                     | 80               | 41                            | 45                    | 69               |
| 245993      | 60                   | 55                     | 80               | 41                            | 45                    | 70               |
| 245994      | 60                   | 55                     | 80               | 38                            | 42                    | 65               |
| 245995      | 60                   | 55                     | 80               | 41                            | 45                    | 69               |
| 245997      | 60                   | 55                     | 80               | 41                            | 44                    | 68               |
| 245998      | 60                   | 55                     | 80               | 40                            | 44                    | 68               |
| 246000      | 60                   | 55                     | 80               | 45                            | 49                    | 74               |
| 246001      | 60                   | 55                     | 80               | 44                            | 47                    | 72               |
| 246004      | 60                   | 55                     | 80               | 40                            | 44                    | 68               |
| 246006      | 60                   | 55                     | 80               | 37                            | 41                    | 64               |
| 246008      | 60                   | 55                     | 80               | 40                            | 44                    | 67               |
| 246010      | 60                   | 55                     | 80               | 40                            | 44                    | 68               |
| 246012      | 60                   | 55                     | 80               | 43                            | 47                    | 72               |
| 246014      | 60                   | 55                     | 80               | 40                            | 44                    | 67               |
| 246015      | 60                   | 55                     | 80               | 40                            | 43                    | 67               |
| 246016      | 60                   | 55                     | 80               | 40                            | 43                    | 67               |
| 246017      | 60                   | 55                     | 80               | 45                            | 49                    | 74               |
| 246020      | 60                   | 55                     | 80               | 41                            | 45                    | 69               |
| 246021      | 60                   | 55                     | 80               | 40                            | 44                    | 68               |
| 246022      | 60                   | 55                     | 80               | 40                            | 44                    | 68               |
| 246023      | 60                   | 55                     | 80               | 40                            | 44                    | 69               |
| 246024      | 60                   | 55                     | 80               | 40                            | 43                    | 67               |
| 246025      | 60                   | 55                     | 80               | 41                            | 45                    | 69               |
| 246028      | 60                   | 55                     | 80               | 41                            | 44                    | 68               |
| 246030      | 60                   | 55                     | 80               | 44                            | 47                    | 72               |
| 246033      | 60                   | 55                     | 80               | 40                            | 44                    | 67               |
| 246035      | 60                   | 55                     | 80               | 42                            | 46                    | 71               |
| 246036      | 60                   | 55                     | 80               | 38                            | 42                    | 67               |
| 246037      | 60                   | 55                     | 80               | 41                            | 45                    | 70               |
| 246038      | 60                   | 55                     | 80               | 40                            | 44                    | 68               |
| 246041      | 60                   | 55                     | 80               | 40                            | 44                    | 68               |
| 246043      | 60                   | 55                     | 80               | 50                            | 54                    | 79               |
| 246045      | 60                   | 55                     | 80               | 44                            | 48                    | 72               |
| 246046      | 60                   | 55                     | 80               | 38                            | 42                    | 68               |
| 246047      | 60                   | 55                     | 80               | 41                            | 44                    | 68               |
| 246048      | 60                   | 55                     | 80               | 40                            | 44                    | 68               |
| 246051      | 60                   | 55                     | 80               | 44                            | 47                    | 72               |
| 246052      | 60                   | 55                     | 80               | 40                            | 44                    | 69               |
| 246054      | 60                   | 55                     | 80               | 52                            | <b>56</b>             | <b>81</b>        |



| Receptor ID | Rail noise criteria  |                        |                   | Project rail noise levels dBA |                       |                   |
|-------------|----------------------|------------------------|-------------------|-------------------------------|-----------------------|-------------------|
|             | L <sub>Aeq</sub> Day | L <sub>Aeq</sub> Night | L <sub>amax</sub> | L <sub>Aeq</sub> ,15hr        | L <sub>Aeq</sub> ,9hr | L <sub>amax</sub> |
| 246057      | 60                   | 55                     | 80                | 41                            | 44                    | 68                |
| 246059      | 60                   | 55                     | 80                | 41                            | 44                    | 68                |
| 246061      | 60                   | 55                     | 80                | 41                            | 44                    | 68                |
| 246064      | 60                   | 55                     | 80                | 38                            | 41                    | 66                |
| 246066      | 60                   | 55                     | 80                | 40                            | 44                    | 68                |
| 246067      | 60                   | 55                     | 80                | 42                            | 46                    | 70                |
| 246069      | 60                   | 55                     | 80                | 43                            | 46                    | 71                |
| 246071      | 60                   | 55                     | 80                | 45                            | 48                    | 72                |
| 246072      | 60                   | 55                     | 80                | 42                            | 46                    | 71                |
| 246073      | 60                   | 55                     | 80                | 40                            | 44                    | 69                |
| 246074      | 60                   | 55                     | 80                | 40                            | 44                    | 69                |
| 246077      | 60                   | 55                     | 80                | 42                            | 45                    | 69                |
| 246081      | 60                   | 55                     | 80                | 43                            | 46                    | 70                |
| 246083      | 60                   | 55                     | 80                | 43                            | 46                    | 71                |
| 246086      | 60                   | 55                     | 80                | 42                            | 46                    | 71                |
| 246090      | 60                   | 55                     | 80                | 42                            | 46                    | 70                |
| 246092      | 60                   | 55                     | 80                | 41                            | 45                    | 70                |
| 246096      | 60                   | 55                     | 80                | 40                            | 44                    | 69                |
| 246098      | 60                   | 55                     | 80                | 41                            | 45                    | 70                |
| 246100      | 60                   | 55                     | 80                | 41                            | 45                    | 69                |
| 246102      | 60                   | 55                     | 80                | 43                            | 46                    | 71                |
| 246103      | 60                   | 55                     | 80                | 42                            | 45                    | 70                |
| 246104      | 60                   | 55                     | 80                | 42                            | 45                    | 70                |
| 246106      | 60                   | 55                     | 80                | 44                            | 47                    | 71                |
| 246108      | 60                   | 55                     | 80                | 42                            | 46                    | 71                |
| 246109      | 60                   | 55                     | 80                | 42                            | 46                    | 71                |
| 246110      | 60                   | 55                     | 80                | 42                            | 46                    | 70                |
| 246112      | 60                   | 55                     | 80                | 41                            | 45                    | 68                |
| 246113      | 60                   | 55                     | 80                | 48                            | 52                    | 77                |
| 246114      | 60                   | 55                     | 80                | 40                            | 44                    | 68                |
| 246119      | 60                   | 55                     | 80                | 43                            | 46                    | 71                |
| 246123      | 60                   | 55                     | 80                | 41                            | 45                    | 69                |
| 246124      | 60                   | 55                     | 80                | 40                            | 44                    | 68                |
| 246126      | 60                   | 55                     | 80                | 42                            | 46                    | 71                |
| 246127      | 60                   | 55                     | 80                | 41                            | 45                    | 70                |
| 246128      | 60                   | 55                     | 80                | 43                            | 46                    | 70                |
| 246129      | 60                   | 55                     | 80                | 41                            | 45                    | 69                |
| 246130      | 60                   | 55                     | 80                | 43                            | 47                    | 72                |
| 246133      | 60                   | 55                     | 80                | 44                            | 48                    | 71                |
| 246134      | 60                   | 55                     | 80                | 42                            | 45                    | 70                |
| 246137      | 60                   | 55                     | 80                | 43                            | 47                    | 70                |
| 246140      | 60                   | 55                     | 80                | 42                            | 46                    | 71                |
| 246142      | 60                   | 55                     | 80                | 43                            | 46                    | 71                |
| 246143      | 60                   | 55                     | 80                | 42                            | 46                    | 69                |
| 246147      | 60                   | 55                     | 80                | 44                            | 47                    | 72                |
| 246148      | 60                   | 55                     | 80                | 42                            | 46                    | 70                |
| 246149      | 60                   | 55                     | 80                | 47                            | 50                    | 75                |
| 246151      | 60                   | 55                     | 80                | 42                            | 46                    | 70                |
| 246152      | 60                   | 55                     | 80                | 43                            | 46                    | 70                |
| 246153      | 60                   | 55                     | 80                | 41                            | 44                    | 68                |
| 246154      | 60                   | 55                     | 80                | 43                            | 47                    | 70                |
| 246155      | 60                   | 55                     | 80                | 43                            | 47                    | 70                |
| 246157      | 60                   | 55                     | 80                | 43                            | 47                    | 71                |
| 246159      | 60                   | 55                     | 80                | 43                            | 47                    | 71                |
| 246162      | 60                   | 55                     | 80                | 41                            | 45                    | 68                |
| 246163      | 60                   | 55                     | 80                | 44                            | 47                    | 70                |
| 246166      | 60                   | 55                     | 80                | 45                            | 48                    | 72                |



| Receptor ID | Rail noise criteria |            |       | Project rail noise levels dBA |           |           |
|-------------|---------------------|------------|-------|-------------------------------|-----------|-----------|
|             | LAeq Day            | LAeq Night | Lamax | LAeq,15hr                     | LAeq,9hr  | Lamax     |
| 246168      | 60                  | 55         | 80    | 44                            | 48        | 71        |
| 246169      | 60                  | 55         | 80    | 45                            | 49        | 74        |
| 246170      | 60                  | 55         | 80    | 47                            | 51        | 76        |
| 246175      | 60                  | 55         | 80    | 44                            | 48        | 72        |
| 246177      | 60                  | 55         | 80    | 40                            | 44        | 67        |
| 246187      | 60                  | 55         | 80    | 50                            | 54        | 79        |
| 246188      | 60                  | 55         | 80    | 44                            | 48        | 71        |
| 246189      | 60                  | 55         | 80    | 39                            | 43        | 67        |
| 246196      | 60                  | 55         | 80    | 43                            | 46        | 72        |
| 246197      | 60                  | 55         | 80    | 43                            | 47        | 72        |
| 246200      | 60                  | 55         | 80    | 44                            | 48        | 72        |
| 246203      | 60                  | 55         | 80    | 44                            | 48        | 72        |
| 246206      | 60                  | 55         | 80    | 43                            | 46        | 71        |
| 246207      | 60                  | 55         | 80    | 43                            | 47        | 72        |
| 246210      | 60                  | 55         | 80    | 44                            | 48        | 73        |
| 246211      | 60                  | 55         | 80    | 43                            | 47        | 71        |
| 246212      | 60                  | 55         | 80    | 43                            | 47        | 71        |
| 246221      | 60                  | 55         | 80    | 52                            | 55        | <b>81</b> |
| 246224      | 60                  | 55         | 80    | 47                            | 50        | 75        |
| 246228      | 60                  | 55         | 80    | 48                            | 51        | 76        |
| 246230      | 60                  | 55         | 80    | 52                            | 55        | <b>81</b> |
| 246232      | 60                  | 55         | 80    | 46                            | 50        | 75        |
| 246235      | 60                  | 55         | 80    | 44                            | 48        | 73        |
| 246237      | 60                  | 55         | 80    | 42                            | 46        | 70        |
| 246238      | 60                  | 55         | 80    | 47                            | 50        | 76        |
| 246241      | 60                  | 55         | 80    | 48                            | 52        | 77        |
| 246242      | 60                  | 55         | 80    | 47                            | 51        | 75        |
| 246243      | 60                  | 55         | 80    | 44                            | 48        | 72        |
| 246249      | 60                  | 55         | 80    | 47                            | 51        | 76        |
| 246251      | 60                  | 55         | 80    | 47                            | 50        | 75        |
| 246259      | 60                  | 55         | 80    | 49                            | 52        | 77        |
| 246270      | 60                  | 55         | 80    | 44                            | 48        | 72        |
| 246271      | 60                  | 55         | 80    | 51                            | 55        | 79        |
| 246272      | 60                  | 55         | 80    | 42                            | 46        | 71        |
| 246302      | 60                  | 55         | 80    | 44                            | 48        | 72        |
| 246310      | 60                  | 55         | 80    | 44                            | 48        | 72        |
| 246319      | 60                  | 55         | 80    | 45                            | 49        | 73        |
| 246320      | 60                  | 55         | 80    | 51                            | 55        | 80        |
| 246321      | 60                  | 55         | 80    | 45                            | 49        | 73        |
| 246365      | 60                  | 55         | 80    | 47                            | 51        | 76        |
| 246369      | 60                  | 55         | 80    | 46                            | 50        | 75        |
| 246374      | 60                  | 55         | 80    | 46                            | 50        | 75        |
| 246387      | 60                  | 55         | 80    | 48                            | 52        | 77        |
| 246399      | 60                  | 55         | 80    | 48                            | 52        | 76        |
| 246420      | 60                  | 55         | 80    | 49                            | 53        | 77        |
| 246433      | 60                  | 55         | 80    | 49                            | 53        | 78        |
| 246439      | 60                  | 55         | 80    | 48                            | 52        | 77        |
| 246451      | 60                  | 55         | 80    | 47                            | 51        | 76        |
| 246457      | 60                  | 55         | 80    | 47                            | 51        | 76        |
| 246464      | 60                  | 55         | 80    | 47                            | 50        | 75        |
| 246472      | 60                  | 55         | 80    | 45                            | 49        | 72        |
| 246532      | 60                  | 55         | 80    | 55                            | <b>58</b> | <b>84</b> |
| 246536      | 60                  | 55         | 80    | 53                            | <b>57</b> | <b>82</b> |
| 246552      | 60                  | 55         | 80    | 42                            | 46        | 71        |
| 246557      | 60                  | 55         | 80    | 45                            | 48        | 71        |
| 246567      | 60                  | 55         | 80    | 48                            | 52        | 76        |
| 246569      | 60                  | 55         | 80    | 47                            | 51        | 75        |



| Receptor ID | Rail noise criteria |            |       | Project rail noise levels dBA |           |           |
|-------------|---------------------|------------|-------|-------------------------------|-----------|-----------|
|             | LAeq Day            | LAeq Night | Lamax | LAeq,15hr                     | LAeq,9hr  | Lamax     |
| 246570      | 60                  | 55         | 80    | 45                            | 49        | 72        |
| 246578      | 60                  | 55         | 80    | 47                            | 51        | 75        |
| 246587      | 60                  | 55         | 80    | 47                            | 50        | 75        |
| 246592      | 60                  | 55         | 80    | 48                            | 51        | 76        |
| 246593      | 60                  | 55         | 80    | 47                            | 50        | 74        |
| 246629      | 60                  | 55         | 80    | 43                            | 47        | 72        |
| 246673      | 60                  | 55         | 80    | 55                            | <b>59</b> | <b>85</b> |
| 246693      | 60                  | 55         | 80    | 46                            | 50        | 75        |
| 246698      | 60                  | 55         | 80    | 43                            | 47        | 72        |
| 246745      | 60                  | 55         | 80    | 38                            | 42        | 67        |
| 246747      | 60                  | 55         | 80    | 34                            | 38        | 64        |
| 246754      | 60                  | 55         | 80    | 38                            | 42        | 68        |
| 324718      | 60                  | 55         | 80    | 39                            | 43        | 69        |
| 324720      | 60                  | 55         | 80    | 42                            | 46        | 71        |
| 324729      | 60                  | 55         | 80    | 47                            | 51        | 74        |
| 324734      | 60                  | 55         | 80    | 51                            | 55        | 79        |
| 324738      | 60                  | 55         | 80    | 52                            | <b>56</b> | <b>81</b> |
| 324740      | 60                  | 55         | 80    | 41                            | 44        | 69        |
| 324792      | 60                  | 55         | 80    | 38                            | 41        | 66        |
| 324811      | 60                  | 55         | 80    | 44                            | 48        | 72        |
| 324819      | 60                  | 55         | 80    | 45                            | 49        | 73        |
| 324822      | 60                  | 55         | 80    | 46                            | 50        | 74        |
| 325117      | 60                  | 55         | 80    | 44                            | 47        | 71        |
| 325145      | 60                  | 55         | 80    | 44                            | 47        | 72        |
| 325292      | 60                  | 55         | 80    | 43                            | 47        | 71        |
| 325416      | 60                  | 55         | 80    | 37                            | 41        | 67        |
| 325550      | 60                  | 55         | 80    | 37                            | 41        | 65        |
| 325560      | 60                  | 55         | 80    | 37                            | 41        | 64        |
| 325572      | 60                  | 55         | 80    | 35                            | 38        | 62        |
| 326528      | 60                  | 55         | 80    | 37                            | 40        | 65        |
| 331634      | 60                  | 55         | 80    | <b>62</b>                     | <b>66</b> | <b>91</b> |
| 331635      | 60                  | 55         | 80    | 40                            | 43        | 68        |
| 331692      | 60                  | 55         | 80    | 42                            | 46        | 70        |
| 331696      | 60                  | 55         | 80    | 39                            | 43        | 66        |
| 331698      | 60                  | 55         | 80    | 48                            | 52        | 77        |
| 331699      | 60                  | 55         | 80    | 41                            | 45        | 70        |
| 331700      | 60                  | 55         | 80    | 43                            | 46        | 72        |
| 331702      | 60                  | 55         | 80    | 32                            | 35        | 60        |
| 331704      | 60                  | 55         | 80    | 39                            | 43        | 67        |
| 331710      | 60                  | 55         | 80    | 52                            | <b>56</b> | <b>81</b> |
| 331715      | 60                  | 55         | 80    | 37                            | 41        | 64        |
| 331718      | 60                  | 55         | 80    | 50                            | 54        | 79        |
| 331722      | 60                  | 55         | 80    | 41                            | 44        | 69        |
| 331723      | 60                  | 55         | 80    | 36                            | 39        | 64        |
| 331724      | 60                  | 55         | 80    | 40                            | 44        | 69        |
| 331728      | 60                  | 55         | 80    | 53                            | <b>57</b> | <b>82</b> |
| 331734      | 60                  | 55         | 80    | 44                            | 48        | 70        |
| 331735      | 60                  | 55         | 80    | 49                            | 53        | 78        |
| 331738      | 60                  | 55         | 80    | 48                            | 52        | 76        |
| 331739      | 60                  | 55         | 80    | 40                            | 44        | 67        |
| 331740      | 60                  | 55         | 80    | 32                            | 36        | 61        |
| 331746      | 60                  | 55         | 80    | 45                            | 48        | 72        |
| 331749      | 60                  | 55         | 80    | 51                            | 55        | 80        |
| 331751      | 60                  | 55         | 80    | 39                            | 43        | 67        |
| 331759      | 60                  | 55         | 80    | 50                            | 54        | 78        |
| 331764      | 60                  | 55         | 80    | 49                            | 53        | 78        |
| 331766      | 60                  | 55         | 80    | 46                            | 49        | 74        |



| Receptor ID | Rail noise criteria |            |       | Project rail noise levels dBA |           |           |
|-------------|---------------------|------------|-------|-------------------------------|-----------|-----------|
|             | LAeq Day            | LAeq Night | Lamax | LAeq,15hr                     | LAeq,9hr  | Lamax     |
| 331771      | 60                  | 55         | 80    | 48                            | 52        | 75        |
| 331774      | 60                  | 55         | 80    | 51                            | 55        | 80        |
| 331786      | 60                  | 55         | 80    | 46                            | 49        | 74        |
| 331788      | 60                  | 55         | 80    | 36                            | 40        | 65        |
| 331791      | 60                  | 55         | 80    | 46                            | 50        | 74        |
| 331798      | 60                  | 55         | 80    | 48                            | 51        | 75        |
| 331804      | 60                  | 55         | 80    | 38                            | 42        | 66        |
| 331805      | 60                  | 55         | 80    | 44                            | 48        | 73        |
| 331814      | 60                  | 55         | 80    | 43                            | 47        | 69        |
| 331822      | 60                  | 55         | 80    | 48                            | 52        | 77        |
| 331823      | 60                  | 55         | 80    | 47                            | 51        | 75        |
| 331830      | 60                  | 55         | 80    | 49                            | 53        | 77        |
| 331833      | 60                  | 55         | 80    | 43                            | 47        | 72        |
| 331834      | 60                  | 55         | 80    | 51                            | 55        | 79        |
| 331835      | 60                  | 55         | 80    | 36                            | 39        | 61        |
| 331839      | 60                  | 55         | 80    | 48                            | 51        | 76        |
| 331844      | 60                  | 55         | 80    | 48                            | 52        | 76        |
| 331845      | 60                  | 55         | 80    | 45                            | 49        | 72        |
| 331847      | 60                  | 55         | 80    | 45                            | 48        | 72        |
| 331849      | 60                  | 55         | 80    | 42                            | 46        | 71        |
| 331850      | 60                  | 55         | 80    | 44                            | 47        | 71        |
| 331851      | 60                  | 55         | 80    | 57                            | <b>61</b> | <b>86</b> |
| 331852      | 60                  | 55         | 80    | 54                            | <b>58</b> | <b>83</b> |
| 331855      | 60                  | 55         | 80    | 51                            | 54        | 79        |
| 331859      | 60                  | 55         | 80    | 51                            | 55        | 80        |
| 331860      | 60                  | 55         | 80    | 54                            | <b>58</b> | <b>84</b> |
| 331869      | 60                  | 55         | 80    | 43                            | 47        | 71        |
| 331905      | 60                  | 55         | 80    | 36                            | 39        | 64        |
| 331915      | 60                  | 55         | 80    | 44                            | 48        | 73        |
| 331921      | 60                  | 55         | 80    | 40                            | 43        | 68        |
| 331922      | 60                  | 55         | 80    | 40                            | 43        | 68        |
| 331924      | 60                  | 55         | 80    | 49                            | 53        | 78        |
| 331932      | 60                  | 55         | 80    | 45                            | 49        | 74        |
| 331940      | 60                  | 55         | 80    | 37                            | 40        | 65        |
| 331947      | 60                  | 55         | 80    | 53                            | <b>57</b> | <b>82</b> |
| 331960      | 60                  | 55         | 80    | 42                            | 46        | 71        |
| 331977      | 60                  | 55         | 80    | 51                            | 54        | 80        |
| 331978      | 60                  | 55         | 80    | 47                            | 50        | 74        |
| 331980      | 60                  | 55         | 80    | 45                            | 48        | 71        |
| 331995      | 60                  | 55         | 80    | 43                            | 46        | 69        |
| 332012      | 60                  | 55         | 80    | 39                            | 43        | 66        |
| 332019      | 60                  | 55         | 80    | 44                            | 47        | 73        |
| 332023      | 60                  | 55         | 80    | 50                            | 54        | 80        |
| 332028      | 60                  | 55         | 80    | 45                            | 48        | 72        |
| 332038      | 60                  | 55         | 80    | 53                            | <b>56</b> | <b>82</b> |
| 332039      | 60                  | 55         | 80    | 38                            | 42        | 67        |
| 332044      | 60                  | 55         | 80    | 50                            | 53        | 77        |
| 332047      | 60                  | 55         | 80    | 53                            | <b>56</b> | <b>82</b> |
| 332056      | 60                  | 55         | 80    | 50                            | 53        | 78        |
| 332060      | 60                  | 55         | 80    | 39                            | 42        | 66        |
| 332063      | 60                  | 55         | 80    | 59                            | <b>63</b> | <b>89</b> |
| 332070      | 60                  | 55         | 80    | 46                            | 50        | 74        |
| 332072      | 60                  | 55         | 80    | 44                            | 48        | 71        |
| 332076      | 60                  | 55         | 80    | 47                            | 51        | 75        |
| 332090      | 60                  | 55         | 80    | 49                            | 52        | 77        |
| 332156      | 60                  | 55         | 80    | 40                            | 43        | 68        |
| 332265      | 60                  | 55         | 80    | 49                            | 52        | 78        |



| Receptor ID | Rail noise criteria |            |       | Project rail noise levels dBA |           |           |
|-------------|---------------------|------------|-------|-------------------------------|-----------|-----------|
|             | LAeq Day            | LAeq Night | Lamax | LAeq,15hr                     | LAeq,9hr  | Lamax     |
| 332313      | 60                  | 55         | 80    | 37                            | 41        | 64        |
| 332427      | 60                  | 55         | 80    | 41                            | 45        | 69        |
| 332428      | 60                  | 55         | 80    | 42                            | 45        | 69        |
| 332429      | 60                  | 55         | 80    | 45                            | 48        | 72        |
| 332430      | 60                  | 55         | 80    | 38                            | 42        | 67        |
| 332431      | 60                  | 55         | 80    | 40                            | 43        | 68        |
| 332432      | 60                  | 55         | 80    | 44                            | 47        | 71        |
| 332434      | 60                  | 55         | 80    | 48                            | 51        | 77        |
| 332435      | 60                  | 55         | 80    | 41                            | 44        | 69        |
| 332437      | 60                  | 55         | 80    | 46                            | 49        | 74        |
| 332438      | 60                  | 55         | 80    | 42                            | 45        | 69        |
| 332439      | 60                  | 55         | 80    | 44                            | 48        | 71        |
| 332440      | 60                  | 55         | 80    | 42                            | 46        | 70        |
| 332441      | 60                  | 55         | 80    | 42                            | 46        | 68        |
| 332453      | 60                  | 55         | 80    | 43                            | 47        | 72        |
| 332455      | 60                  | 55         | 80    | 43                            | 47        | 71        |
| 332459      | 60                  | 55         | 80    | 48                            | 51        | 76        |
| 332461      | 60                  | 55         | 80    | 44                            | 48        | 73        |
| 332462      | 60                  | 55         | 80    | 41                            | 45        | 68        |
| 332463      | 60                  | 55         | 80    | 42                            | 46        | 69        |
| 332464      | 60                  | 55         | 80    | 46                            | 49        | 73        |
| 332465      | 60                  | 55         | 80    | 45                            | 48        | 73        |
| 332467      | 60                  | 55         | 80    | 53                            | <b>57</b> | <b>82</b> |
| 332468      | 60                  | 55         | 80    | 39                            | 43        | 67        |
| 332470      | 60                  | 55         | 80    | 41                            | 45        | 68        |
| 332471      | 60                  | 55         | 80    | 51                            | 54        | 79        |
| 332472      | 60                  | 55         | 80    | 43                            | 47        | 72        |
| 332475      | 60                  | 55         | 80    | 41                            | 45        | 69        |
| 332476      | 60                  | 55         | 80    | 41                            | 45        | 68        |
| 332477      | 60                  | 55         | 80    | 41                            | 45        | 68        |
| 332478      | 60                  | 55         | 80    | 41                            | 45        | 67        |
| 332480      | 60                  | 55         | 80    | 42                            | 45        | 70        |
| 332484      | 60                  | 55         | 80    | 41                            | 45        | 68        |
| 332485      | 60                  | 55         | 80    | 38                            | 42        | 67        |
| 332498      | 60                  | 55         | 80    | 41                            | 45        | 68        |
| 332612      | 60                  | 55         | 80    | 39                            | 43        | 67        |
| 332614      | 60                  | 55         | 80    | 40                            | 44        | 68        |
| 332615      | 60                  | 55         | 80    | 53                            | <b>57</b> | <b>81</b> |
| 332616      | 60                  | 55         | 80    | 48                            | 52        | 76        |
| 332618      | 60                  | 55         | 80    | 41                            | 44        | 67        |
| 332622      | 60                  | 55         | 80    | 43                            | 47        | 71        |
| 332623      | 60                  | 55         | 80    | 40                            | 44        | 66        |
| 332624      | 60                  | 55         | 80    | 42                            | 45        | 69        |
| 332625      | 60                  | 55         | 80    | 41                            | 45        | 68        |
| 332626      | 60                  | 55         | 80    | 41                            | 45        | 69        |
| 332627      | 60                  | 55         | 80    | 40                            | 44        | 67        |
| 332628      | 60                  | 55         | 80    | 42                            | 45        | 69        |
| 332630      | 60                  | 55         | 80    | 43                            | 47        | 71        |
| 332633      | 60                  | 55         | 80    | 41                            | 45        | 68        |
| 332634      | 60                  | 55         | 80    | 43                            | 47        | 71        |
| 332635      | 60                  | 55         | 80    | 42                            | 45        | 69        |
| 332636      | 60                  | 55         | 80    | 42                            | 45        | 69        |
| 332637      | 60                  | 55         | 80    | 42                            | 46        | 70        |
| 332638      | 60                  | 55         | 80    | 41                            | 45        | 67        |
| 332639      | 60                  | 55         | 80    | 41                            | 44        | 69        |
| 332640      | 60                  | 55         | 80    | 40                            | 44        | 67        |
| 332641      | 60                  | 55         | 80    | 42                            | 46        | 70        |



| Receptor ID | Rail noise criteria  |                        |                   | Project rail noise levels dBA |                       |                   |
|-------------|----------------------|------------------------|-------------------|-------------------------------|-----------------------|-------------------|
|             | L <sub>Aeq</sub> Day | L <sub>Aeq</sub> Night | L <sub>amax</sub> | L <sub>Aeq</sub> ,15hr        | L <sub>Aeq</sub> ,9hr | L <sub>amax</sub> |
| 332646      | 60                   | 55                     | 80                | 39                            | 43                    | 67                |
| 332648      | 60                   | 55                     | 80                | 41                            | 45                    | 68                |
| 332650      | 60                   | 55                     | 80                | 40                            | 43                    | 67                |
| 332651      | 60                   | 55                     | 80                | 41                            | 44                    | 68                |
| 332652      | 60                   | 55                     | 80                | 43                            | 46                    | 70                |
| 332655      | 60                   | 55                     | 80                | 41                            | 45                    | 67                |
| 332656      | 60                   | 55                     | 80                | 41                            | 45                    | 68                |
| 332657      | 60                   | 55                     | 80                | 42                            | 46                    | 69                |
| 332663      | 60                   | 55                     | 80                | 42                            | 46                    | 70                |
| 332664      | 60                   | 55                     | 80                | 40                            | 44                    | 68                |
| 332665      | 60                   | 55                     | 80                | 39                            | 43                    | 64                |
| 332666      | 60                   | 55                     | 80                | 41                            | 45                    | 68                |
| 332667      | 60                   | 55                     | 80                | 41                            | 44                    | 69                |
| 332668      | 60                   | 55                     | 80                | 42                            | 46                    | 69                |
| 332669      | 60                   | 55                     | 80                | 41                            | 44                    | 68                |
| 332671      | 60                   | 55                     | 80                | 39                            | 43                    | 67                |
| 332672      | 60                   | 55                     | 80                | 43                            | 46                    | 70                |
| 332673      | 60                   | 55                     | 80                | 41                            | 45                    | 67                |
| 332674      | 60                   | 55                     | 80                | 39                            | 43                    | 65                |
| 332676      | 60                   | 55                     | 80                | 43                            | 46                    | 71                |
| 332677      | 60                   | 55                     | 80                | 40                            | 43                    | 67                |
| 332678      | 60                   | 55                     | 80                | 40                            | 44                    | 66                |
| 332681      | 60                   | 55                     | 80                | 41                            | 45                    | 69                |
| 332682      | 60                   | 55                     | 80                | 41                            | 44                    | 67                |
| 332683      | 60                   | 55                     | 80                | 42                            | 45                    | 69                |
| 332684      | 60                   | 55                     | 80                | 38                            | 41                    | 64                |
| 332688      | 60                   | 55                     | 80                | 41                            | 45                    | 69                |
| 332689      | 60                   | 55                     | 80                | 41                            | 45                    | 67                |
| 332696      | 60                   | 55                     | 80                | 43                            | 46                    | 71                |
| 332697      | 60                   | 55                     | 80                | 37                            | 41                    | 64                |
| 332698      | 60                   | 55                     | 80                | 41                            | 44                    | 68                |
| 332699      | 60                   | 55                     | 80                | 38                            | 41                    | 64                |
| 332706      | 60                   | 55                     | 80                | 42                            | 46                    | 69                |
| 332707      | 60                   | 55                     | 80                | 41                            | 45                    | 69                |
| 332712      | 60                   | 55                     | 80                | 42                            | 46                    | 70                |
| 332713      | 60                   | 55                     | 80                | 42                            | 45                    | 69                |
| 332714      | 60                   | 55                     | 80                | 42                            | 46                    | 70                |
| 332715      | 60                   | 55                     | 80                | 40                            | 44                    | 67                |
| 332719      | 60                   | 55                     | 80                | 42                            | 46                    | 70                |
| 332720      | 60                   | 55                     | 80                | 39                            | 43                    | 66                |
| 332721      | 60                   | 55                     | 80                | 40                            | 44                    | 67                |
| 332722      | 60                   | 55                     | 80                | 41                            | 44                    | 68                |
| 332723      | 60                   | 55                     | 80                | 40                            | 44                    | 68                |
| 332724      | 60                   | 55                     | 80                | 40                            | 44                    | 67                |
| 332731      | 60                   | 55                     | 80                | 37                            | 40                    | 64                |
| 332734      | 60                   | 55                     | 80                | 38                            | 42                    | 65                |
| 332735      | 60                   | 55                     | 80                | 40                            | 43                    | 65                |
| 332736      | 60                   | 55                     | 80                | 40                            | 44                    | 67                |
| 332739      | 60                   | 55                     | 80                | 48                            | 51                    | 76                |
| 332741      | 60                   | 55                     | 80                | 44                            | 48                    | 72                |
| 332742      | 60                   | 55                     | 80                | 39                            | 43                    | 66                |
| 332743      | 60                   | 55                     | 80                | 41                            | 45                    | 69                |
| 332744      | 60                   | 55                     | 80                | 39                            | 42                    | 66                |
| 332745      | 60                   | 55                     | 80                | 41                            | 44                    | 68                |
| 332746      | 60                   | 55                     | 80                | 40                            | 44                    | 68                |
| 332749      | 60                   | 55                     | 80                | 40                            | 43                    | 68                |
| 332754      | 60                   | 55                     | 80                | 45                            | 49                    | 74                |



| Receptor ID | Rail noise criteria |            |       | Project rail noise levels dBA |           |           |
|-------------|---------------------|------------|-------|-------------------------------|-----------|-----------|
|             | LAeq Day            | LAeq Night | Lamax | LAeq,15hr                     | LAeq,9hr  | Lamax     |
| 332760      | 60                  | 55         | 80    | 43                            | 47        | 70        |
| 332763      | 60                  | 55         | 80    | 40                            | 44        | 68        |
| 332764      | 60                  | 55         | 80    | 41                            | 44        | 68        |
| 332765      | 60                  | 55         | 80    | 39                            | 43        | 66        |
| 332770      | 60                  | 55         | 80    | 41                            | 44        | 69        |
| 332773      | 60                  | 55         | 80    | 43                            | 47        | 70        |
| 332774      | 60                  | 55         | 80    | 43                            | 47        | 69        |
| 332775      | 60                  | 55         | 80    | 41                            | 45        | 69        |
| 332777      | 60                  | 55         | 80    | 38                            | 42        | 66        |
| 332780      | 60                  | 55         | 80    | 49                            | 53        | 77        |
| 332781      | 60                  | 55         | 80    | 40                            | 44        | 65        |
| 332783      | 60                  | 55         | 80    | 46                            | 49        | 74        |
| 332784      | 60                  | 55         | 80    | 40                            | 44        | 67        |
| 332786      | 60                  | 55         | 80    | 47                            | 51        | 76        |
| 332787      | 60                  | 55         | 80    | 42                            | 46        | 69        |
| 332788      | 60                  | 55         | 80    | 42                            | 45        | 69        |
| 332791      | 60                  | 55         | 80    | 42                            | 45        | 70        |
| 332794      | 60                  | 55         | 80    | 41                            | 45        | 67        |
| 332796      | 60                  | 55         | 80    | 41                            | 45        | 68        |
| 332797      | 60                  | 55         | 80    | 41                            | 44        | 68        |
| 332799      | 60                  | 55         | 80    | 42                            | 45        | 69        |
| 332800      | 60                  | 55         | 80    | 42                            | 46        | 70        |
| 332801      | 60                  | 55         | 80    | 41                            | 45        | 68        |
| 332802      | 60                  | 55         | 80    | 41                            | 45        | 69        |
| 332803      | 60                  | 55         | 80    | 41                            | 45        | 68        |
| 332804      | 60                  | 55         | 80    | 42                            | 45        | 69        |
| 332806      | 60                  | 55         | 80    | 43                            | 47        | 71        |
| 332810      | 60                  | 55         | 80    | 40                            | 43        | 67        |
| 332811      | 60                  | 55         | 80    | 40                            | 44        | 67        |
| 332812      | 60                  | 55         | 80    | 40                            | 43        | 67        |
| 332813      | 60                  | 55         | 80    | 40                            | 44        | 68        |
| 332817      | 60                  | 55         | 80    | 44                            | 48        | 71        |
| 332822      | 60                  | 55         | 80    | 43                            | 47        | 71        |
| 332824      | 60                  | 55         | 80    | 45                            | 48        | 73        |
| 332825      | 60                  | 55         | 80    | 43                            | 46        | 70        |
| 332829      | 60                  | 55         | 80    | 43                            | 46        | 70        |
| 332830      | 60                  | 55         | 80    | 39                            | 43        | 66        |
| 332831      | 60                  | 55         | 80    | 47                            | 51        | 75        |
| 332833      | 60                  | 55         | 80    | 41                            | 44        | 68        |
| 332835      | 60                  | 55         | 80    | 55                            | <b>58</b> | <b>83</b> |
| 332839      | 60                  | 55         | 80    | 41                            | 44        | 66        |
| 332841      | 60                  | 55         | 80    | 41                            | 44        | 67        |
| 332843      | 60                  | 55         | 80    | 40                            | 43        | 67        |
| 332844      | 60                  | 55         | 80    | 49                            | 52        | 77        |
| 332845      | 60                  | 55         | 80    | 49                            | 53        | 78        |
| 332847      | 60                  | 55         | 80    | 42                            | 46        | 69        |
| 332849      | 60                  | 55         | 80    | 42                            | 46        | 69        |
| 332850      | 60                  | 55         | 80    | 40                            | 44        | 67        |
| 332853      | 60                  | 55         | 80    | 38                            | 42        | 66        |
| 332857      | 60                  | 55         | 80    | 41                            | 44        | 67        |
| 332858      | 60                  | 55         | 80    | 38                            | 42        | 66        |
| 332859      | 60                  | 55         | 80    | 40                            | 43        | 66        |
| 332860      | 60                  | 55         | 80    | 40                            | 43        | 67        |
| 332861      | 60                  | 55         | 80    | 40                            | 43        | 67        |
| 332863      | 60                  | 55         | 80    | 42                            | 45        | 69        |
| 332864      | 60                  | 55         | 80    | 42                            | 45        | 69        |
| 332865      | 60                  | 55         | 80    | 42                            | 46        | 68        |



| Receptor ID | Rail noise criteria |            |       | Project rail noise levels dBA |          |       |
|-------------|---------------------|------------|-------|-------------------------------|----------|-------|
|             | LAeq Day            | LAeq Night | Lamax | LAeq,15hr                     | LAeq,9hr | Lamax |
| 332866      | 60                  | 55         | 80    | 49                            | 53       | 77    |
| 332867      | 60                  | 55         | 80    | 40                            | 44       | 66    |
| 332868      | 60                  | 55         | 80    | 41                            | 45       | 67    |
| 332870      | 60                  | 55         | 80    | 42                            | 46       | 70    |
| 332879      | 60                  | 55         | 80    | 42                            | 46       | 68    |
| 332880      | 60                  | 55         | 80    | 42                            | 45       | 69    |
| 332881      | 60                  | 55         | 80    | 43                            | 46       | 70    |
| 332882      | 60                  | 55         | 80    | 43                            | 47       | 70    |
| 332883      | 60                  | 55         | 80    | 41                            | 45       | 68    |
| 332884      | 60                  | 55         | 80    | 45                            | 48       | 73    |
| 332885      | 60                  | 55         | 80    | 45                            | 49       | 73    |
| 332887      | 60                  | 55         | 80    | 40                            | 44       | 68    |
| 332888      | 60                  | 55         | 80    | 40                            | 43       | 68    |
| 332889      | 60                  | 55         | 80    | 40                            | 44       | 68    |
| 332898      | 60                  | 55         | 80    | 42                            | 45       | 69    |
| 332899      | 60                  | 55         | 80    | 41                            | 44       | 69    |
| 332900      | 60                  | 55         | 80    | 40                            | 44       | 68    |
| 332901      | 60                  | 55         | 80    | 41                            | 44       | 68    |
| 332902      | 60                  | 55         | 80    | 41                            | 45       | 68    |
| 332903      | 60                  | 55         | 80    | 44                            | 48       | 72    |
| 332905      | 60                  | 55         | 80    | 49                            | 53       | 77    |
| 332906      | 60                  | 55         | 80    | 48                            | 51       | 77    |
| 332909      | 60                  | 55         | 80    | 41                            | 44       | 69    |
| 332914      | 60                  | 55         | 80    | 41                            | 45       | 68    |
| 332915      | 60                  | 55         | 80    | 37                            | 41       | 64    |
| 332916      | 60                  | 55         | 80    | 40                            | 43       | 67    |
| 332917      | 60                  | 55         | 80    | 42                            | 45       | 68    |
| 332918      | 60                  | 55         | 80    | 42                            | 46       | 70    |
| 332919      | 60                  | 55         | 80    | 41                            | 45       | 69    |
| 332920      | 60                  | 55         | 80    | 39                            | 42       | 66    |
| 332922      | 60                  | 55         | 80    | 49                            | 53       | 77    |
| 332924      | 60                  | 55         | 80    | 48                            | 51       | 77    |
| 332931      | 60                  | 55         | 80    | 40                            | 44       | 68    |
| 332932      | 60                  | 55         | 80    | 43                            | 46       | 70    |
| 332934      | 60                  | 55         | 80    | 39                            | 43       | 66    |
| 332936      | 60                  | 55         | 80    | 39                            | 42       | 65    |
| 332937      | 60                  | 55         | 80    | 40                            | 44       | 66    |
| 332938      | 60                  | 55         | 80    | 43                            | 47       | 71    |
| 332940      | 60                  | 55         | 80    | 43                            | 47       | 71    |
| 332941      | 60                  | 55         | 80    | 43                            | 47       | 69    |
| 332942      | 60                  | 55         | 80    | 45                            | 48       | 73    |
| 332944      | 60                  | 55         | 80    | 42                            | 45       | 70    |
| 332945      | 60                  | 55         | 80    | 44                            | 48       | 72    |
| 332946      | 60                  | 55         | 80    | 42                            | 45       | 69    |
| 332947      | 60                  | 55         | 80    | 40                            | 44       | 67    |
| 332948      | 60                  | 55         | 80    | 40                            | 44       | 67    |
| 332949      | 60                  | 55         | 80    | 38                            | 42       | 65    |
| 332951      | 60                  | 55         | 80    | 42                            | 45       | 69    |
| 332953      | 60                  | 55         | 80    | 42                            | 45       | 69    |
| 332954      | 60                  | 55         | 80    | 41                            | 45       | 69    |
| 332955      | 60                  | 55         | 80    | 41                            | 45       | 69    |
| 332959      | 60                  | 55         | 80    | 46                            | 50       | 74    |
| 332964      | 60                  | 55         | 80    | 46                            | 50       | 72    |
| 332965      | 60                  | 55         | 80    | 45                            | 49       | 72    |
| 332968      | 60                  | 55         | 80    | 39                            | 43       | 67    |
| 332969      | 60                  | 55         | 80    | 42                            | 46       | 71    |
| 332970      | 60                  | 55         | 80    | 41                            | 45       | 70    |



| Receptor ID | Rail noise criteria |            |       | Project rail noise levels dBA |          |       |
|-------------|---------------------|------------|-------|-------------------------------|----------|-------|
|             | LAeq Day            | LAeq Night | Lamax | LAeq,15hr                     | LAeq,9hr | Lamax |
| 332971      | 60                  | 55         | 80    | 40                            | 43       | 65    |
| 332972      | 60                  | 55         | 80    | 39                            | 42       | 64    |
| 332973      | 60                  | 55         | 80    | 43                            | 47       | 71    |
| 332974      | 60                  | 55         | 80    | 43                            | 46       | 70    |
| 332975      | 60                  | 55         | 80    | 41                            | 44       | 67    |
| 332976      | 60                  | 55         | 80    | 39                            | 42       | 66    |
| 332977      | 60                  | 55         | 80    | 42                            | 46       | 70    |
| 332979      | 60                  | 55         | 80    | 44                            | 47       | 72    |
| 332981      | 60                  | 55         | 80    | 41                            | 45       | 69    |
| 332982      | 60                  | 55         | 80    | 43                            | 46       | 70    |
| 332985      | 60                  | 55         | 80    | 43                            | 47       | 70    |
| 332988      | 60                  | 55         | 80    | 40                            | 44       | 68    |
| 332993      | 60                  | 55         | 80    | 40                            | 44       | 67    |
| 332996      | 60                  | 55         | 80    | 42                            | 45       | 68    |
| 332997      | 60                  | 55         | 80    | 48                            | 51       | 76    |
| 332999      | 60                  | 55         | 80    | 40                            | 44       | 69    |
| 333001      | 60                  | 55         | 80    | 42                            | 45       | 70    |
| 333002      | 60                  | 55         | 80    | 40                            | 44       | 67    |
| 333004      | 60                  | 55         | 80    | 43                            | 47       | 71    |
| 333006      | 60                  | 55         | 80    | 42                            | 46       | 68    |
| 333008      | 60                  | 55         | 80    | 42                            | 45       | 69    |
| 333009      | 60                  | 55         | 80    | 42                            | 45       | 69    |
| 333010      | 60                  | 55         | 80    | 43                            | 46       | 71    |
| 333011      | 60                  | 55         | 80    | 39                            | 43       | 66    |
| 333012      | 60                  | 55         | 80    | 40                            | 43       | 67    |
| 333013      | 60                  | 55         | 80    | 39                            | 43       | 66    |
| 333014      | 60                  | 55         | 80    | 41                            | 45       | 69    |
| 333015      | 60                  | 55         | 80    | 40                            | 43       | 67    |
| 333016      | 60                  | 55         | 80    | 38                            | 42       | 66    |
| 333018      | 60                  | 55         | 80    | 50                            | 53       | 78    |
| 333019      | 60                  | 55         | 80    | 42                            | 46       | 68    |
| 333020      | 60                  | 55         | 80    | 45                            | 48       | 72    |
| 333029      | 60                  | 55         | 80    | 40                            | 44       | 67    |
| 333031      | 60                  | 55         | 80    | 49                            | 52       | 77    |
| 333032      | 60                  | 55         | 80    | 39                            | 43       | 67    |
| 333034      | 60                  | 55         | 80    | 43                            | 47       | 71    |
| 333036      | 60                  | 55         | 80    | 40                            | 44       | 67    |
| 333038      | 60                  | 55         | 80    | 48                            | 52       | 75    |
| 333039      | 60                  | 55         | 80    | 41                            | 44       | 68    |
| 333041      | 60                  | 55         | 80    | 43                            | 47       | 70    |
| 333042      | 60                  | 55         | 80    | 42                            | 45       | 71    |
| 333044      | 60                  | 55         | 80    | 38                            | 42       | 65    |
| 333051      | 60                  | 55         | 80    | 50                            | 53       | 78    |
| 333052      | 60                  | 55         | 80    | 42                            | 45       | 69    |
| 333058      | 60                  | 55         | 80    | 39                            | 42       | 65    |
| 333060      | 60                  | 55         | 80    | 39                            | 43       | 66    |
| 333062      | 60                  | 55         | 80    | 40                            | 44       | 68    |
| 333063      | 60                  | 55         | 80    | 39                            | 42       | 66    |
| 333068      | 60                  | 55         | 80    | 40                            | 44       | 67    |
| 333071      | 60                  | 55         | 80    | 41                            | 45       | 68    |
| 333076      | 60                  | 55         | 80    | 41                            | 44       | 67    |
| 333077      | 60                  | 55         | 80    | 41                            | 45       | 67    |
| 333079      | 60                  | 55         | 80    | 41                            | 45       | 70    |
| 333093      | 60                  | 55         | 80    | 40                            | 44       | 68    |
| 333105      | 60                  | 55         | 80    | 41                            | 44       | 68    |
| 333109      | 60                  | 55         | 80    | 41                            | 45       | 67    |
| 333111      | 60                  | 55         | 80    | 39                            | 43       | 66    |

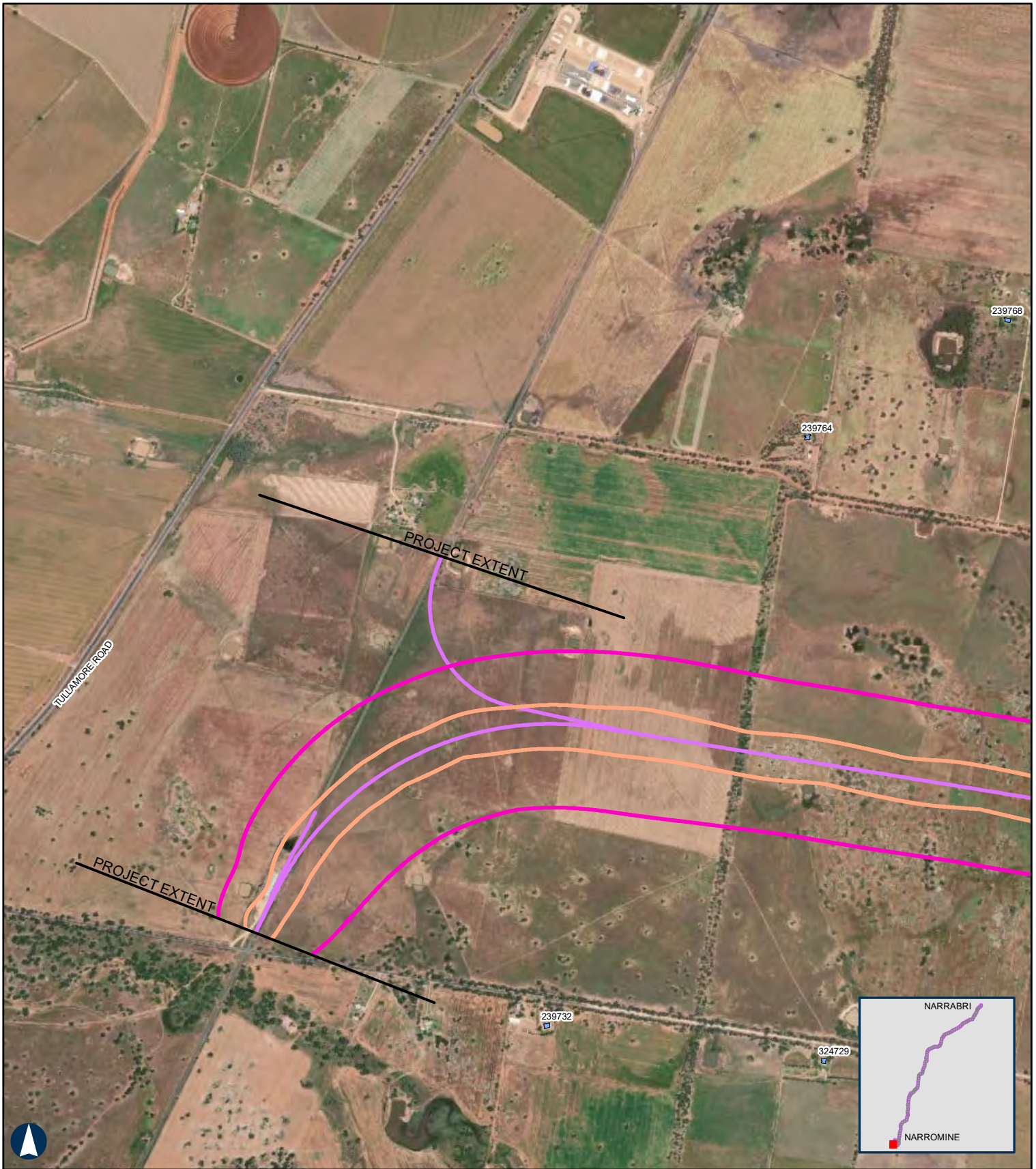


| Receptor ID | Rail noise criteria  |                        |                  | Project rail noise levels dBA |                       |                  |
|-------------|----------------------|------------------------|------------------|-------------------------------|-----------------------|------------------|
|             | L <sub>Aeq</sub> Day | L <sub>Aeq</sub> Night | L <sub>max</sub> | L <sub>Aeq</sub> ,15hr        | L <sub>Aeq</sub> ,9hr | L <sub>max</sub> |
| 333119      | 60                   | 55                     | 80               | 43                            | 46                    | 69               |
| 333120      | 60                   | 55                     | 80               | 42                            | 46                    | 70               |
| 333146      | 60                   | 55                     | 80               | 42                            | 46                    | 68               |
| 333152      | 60                   | 55                     | 80               | 44                            | 47                    | 73               |
| 333157      | 60                   | 55                     | 80               | 40                            | 44                    | 68               |
| 333159      | 60                   | 55                     | 80               | 42                            | 46                    | 69               |
| 333179      | 60                   | 55                     | 80               | 42                            | 46                    | 68               |
| 333185      | 60                   | 55                     | 80               | 40                            | 44                    | 67               |
| 333188      | 60                   | 55                     | 80               | 40                            | 44                    | 67               |
| 333191      | 60                   | 55                     | 80               | 40                            | 44                    | 67               |
| 333192      | 60                   | 55                     | 80               | 41                            | 45                    | 68               |
| 333197      | 60                   | 55                     | 80               | 39                            | 43                    | 65               |
| 333201      | 60                   | 55                     | 80               | 42                            | 46                    | 68               |
| 333202      | 60                   | 55                     | 80               | 43                            | 47                    | 71               |
| 333204      | 60                   | 55                     | 80               | 41                            | 45                    | 68               |
| 333216      | 60                   | 55                     | 80               | 40                            | 43                    | 67               |
| 333222      | 60                   | 55                     | 80               | 39                            | 43                    | 67               |
| 333240      | 60                   | 55                     | 80               | 40                            | 44                    | 67               |
| 333248      | 60                   | 55                     | 80               | 40                            | 43                    | 65               |
| 333255      | 60                   | 55                     | 80               | 40                            | 44                    | 66               |
| 333261      | 60                   | 55                     | 80               | 41                            | 45                    | 69               |
| 333263      | 60                   | 55                     | 80               | 45                            | 48                    | 72               |
| 333271      | 60                   | 55                     | 80               | 46                            | 49                    | 74               |
| 333276      | 60                   | 55                     | 80               | 42                            | 45                    | 69               |
| 333277      | 60                   | 55                     | 80               | 44                            | 48                    | 70               |
| 333301      | 60                   | 55                     | 80               | 43                            | 46                    | 71               |
| 333304      | 60                   | 55                     | 80               | 43                            | 46                    | 69               |
| 333316      | 60                   | 55                     | 80               | 39                            | 43                    | 66               |
| 333318      | 60                   | 55                     | 80               | 43                            | 47                    | 71               |
| 333323      | 60                   | 55                     | 80               | 41                            | 44                    | 68               |
| 333329      | 60                   | 55                     | 80               | 40                            | 43                    | 67               |
| 333333      | 60                   | 55                     | 80               | 42                            | 46                    | 69               |
| 333348      | 60                   | 55                     | 80               | 41                            | 45                    | 68               |
| 333349      | 60                   | 55                     | 80               | 43                            | 47                    | 70               |
| 333355      | 60                   | 55                     | 80               | 40                            | 43                    | 66               |
| 333367      | 60                   | 55                     | 80               | 42                            | 45                    | 69               |
| 333368      | 60                   | 55                     | 80               | 41                            | 45                    | 69               |
| 333392      | 60                   | 55                     | 80               | 40                            | 44                    | 67               |
| 333398      | 60                   | 55                     | 80               | 44                            | 47                    | 71               |
| 333399      | 60                   | 55                     | 80               | 41                            | 45                    | 69               |
| 333400      | 60                   | 55                     | 80               | 47                            | 50                    | 74               |
| 333406      | 60                   | 55                     | 80               | 41                            | 45                    | 68               |
| 333410      | 60                   | 55                     | 80               | 47                            | 51                    | 75               |
| 333412      | 60                   | 55                     | 80               | 41                            | 45                    | 68               |
| 333415      | 60                   | 55                     | 80               | 40                            | 44                    | 68               |
| 333416      | 60                   | 55                     | 80               | 40                            | 44                    | 67               |
| 333417      | 60                   | 55                     | 80               | 40                            | 44                    | 68               |
| 333431      | 60                   | 55                     | 80               | 44                            | 47                    | 72               |
| 333432      | 60                   | 55                     | 80               | 37                            | 41                    | 66               |
| 333433      | 60                   | 55                     | 80               | 39                            | 43                    | 65               |
| 333434      | 60                   | 55                     | 80               | 39                            | 43                    | 66               |
| 333435      | 60                   | 55                     | 80               | 38                            | 42                    | 65               |
| 333436      | 60                   | 55                     | 80               | 37                            | 40                    | 63               |
| 333437      | 60                   | 55                     | 80               | 38                            | 41                    | 64               |
| 333451      | 60                   | 55                     | 80               | 41                            | 44                    | 67               |
| 333454      | 60                   | 55                     | 80               | 44                            | 47                    | 71               |
| 333458      | 60                   | 55                     | 80               | 43                            | 47                    | 70               |



| Receptor ID | Rail noise criteria |            |       | Project rail noise levels dBA |          |       |
|-------------|---------------------|------------|-------|-------------------------------|----------|-------|
|             | LAeq Day            | LAeq Night | Lamax | LAeq,15hr                     | LAeq,9hr | LAmix |
| 333465      | 60                  | 55         | 80    | 42                            | 45       | 69    |
| 333470      | 60                  | 55         | 80    | 42                            | 46       | 71    |
| 333474      | 60                  | 55         | 80    | 41                            | 45       | 68    |
| 333627      | 60                  | 55         | 80    | 44                            | 47       | 72    |
| 333651      | 60                  | 55         | 80    | 39                            | 43       | 66    |





## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 1 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4  
Date: 31-Jul-2020  
Author: JG

Scale: 1:20,000

- ✕ Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

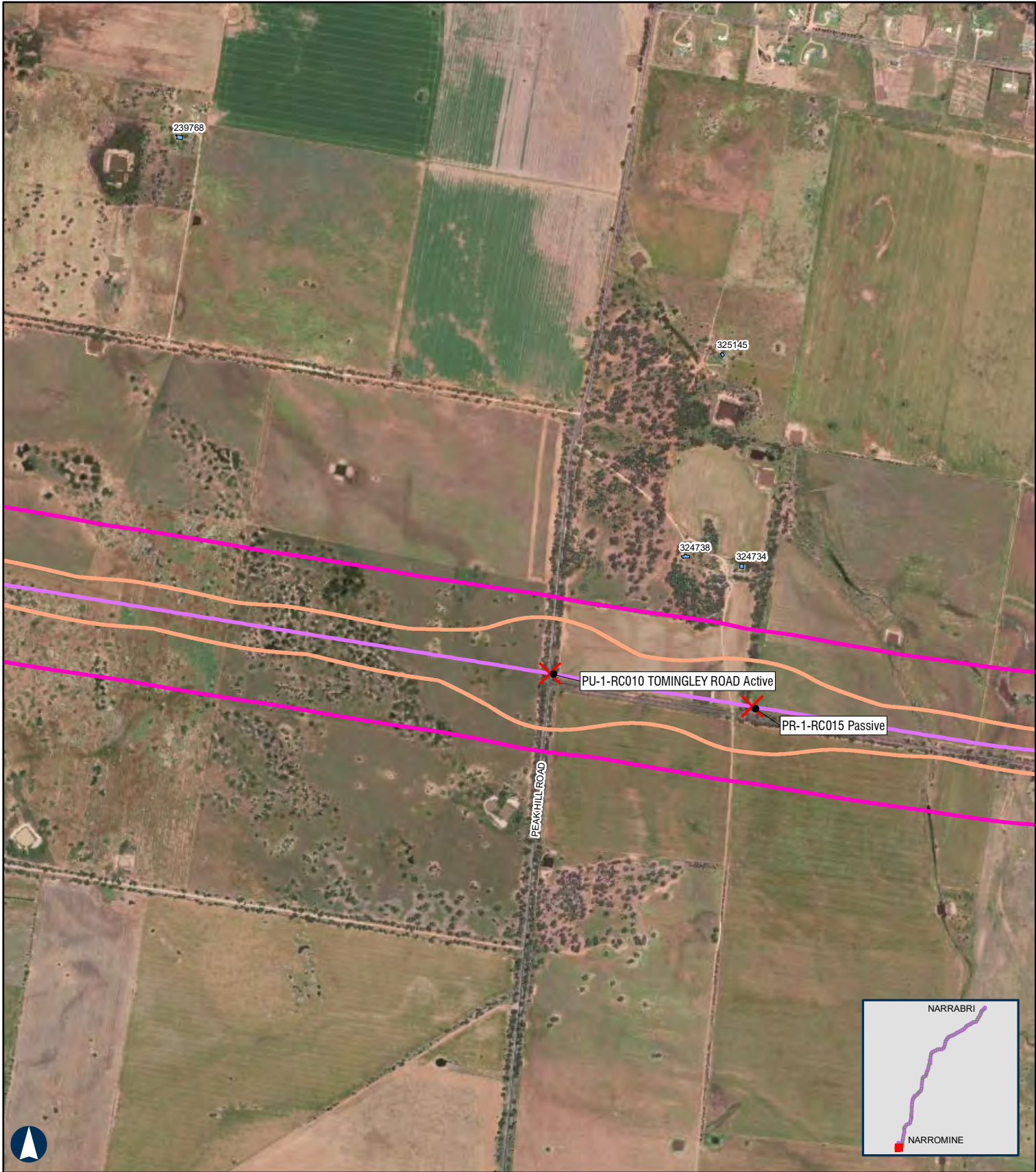
Noise contours are based on a set distance above the local terrain level of 2.4m.

- 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

**ARTC** **InlandRail**

The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation, in partnership with the private sector.





**NARROMINE TO NARRABRI** Year 2025 Daytime Rail Noise Levels

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4  
Date: 31-Jul-2020  
Author: JG

Scale: 1:20,000

- Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- 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



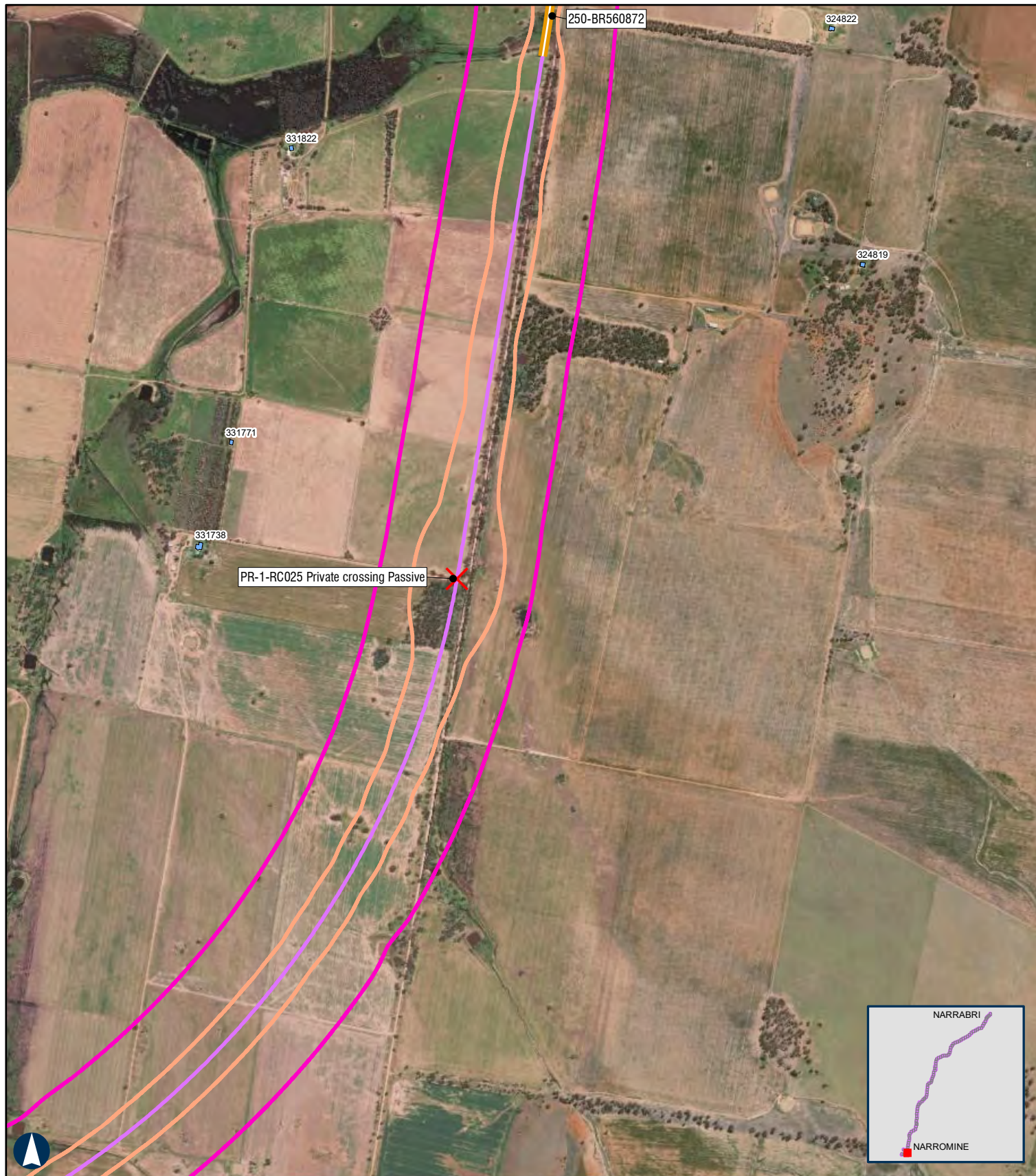
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation, in partnership with the private sector.





| NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                | APPENDIX D - Map 3 of 168                                                                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>500 m</b></p> <p>Coordinate System: GDA 1994 MGA Zone 55</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: 1:20,000<br/> Date: 31-Jul-2020<br/> Author: JG</p> |                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                 |
| <ul style="list-style-type: none"> <li>✗ Level Crossings</li> <li>— Proposal Extent</li> <li>— Crossing Loops</li> <li>— Rail Alignment/Centreline</li> <li>— Bridges and Viaducts</li> <li>— Sensitive Receivers</li> <li>— Noise Assessment Area – Upgrading Existing Railway</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                             | <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> </ul> | <p><b>ARTC InlandRail</b></p> <p>The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation, in partnership with the private sector.</p> |
| <p>Noise contours are based on a set distance above the local terrain level of 2.4m.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                 |





## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 4 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Date: 31-Jul-2020  
Author: JG

Scale: 1:20,000

- X Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

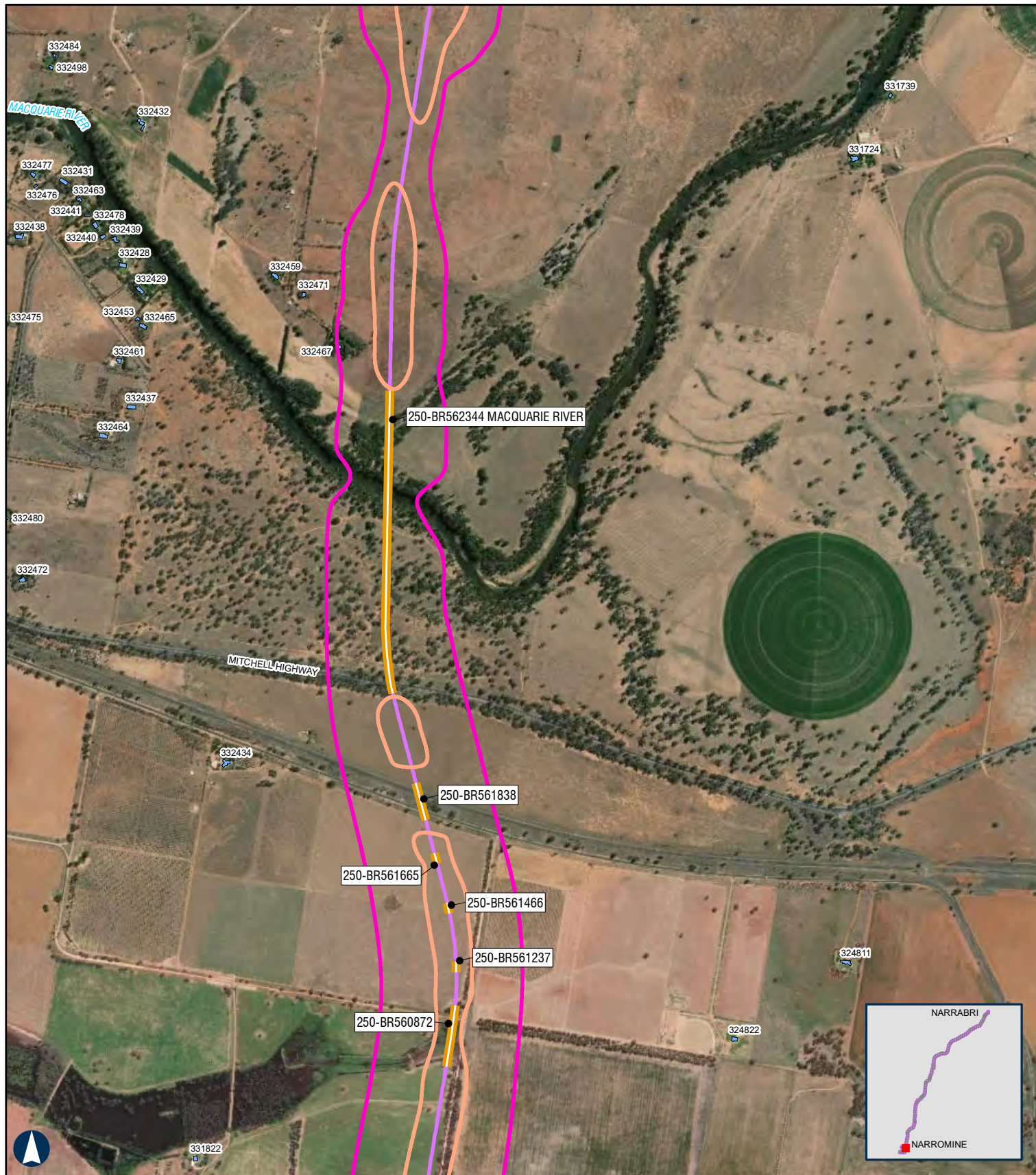
Noise contours are based on a set distance above the local terrain level of 2.4m.

- Daytime noise criteria LAeq15hr 60dBA new rail corridor
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- Daytime noise criteria LA max 80dBA new rail corridor
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## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 5 of 168

500 m

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Paper: A4  
Date: 31-Jul-2020  
Author: JG  
Scale: 1:20,000

- X Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

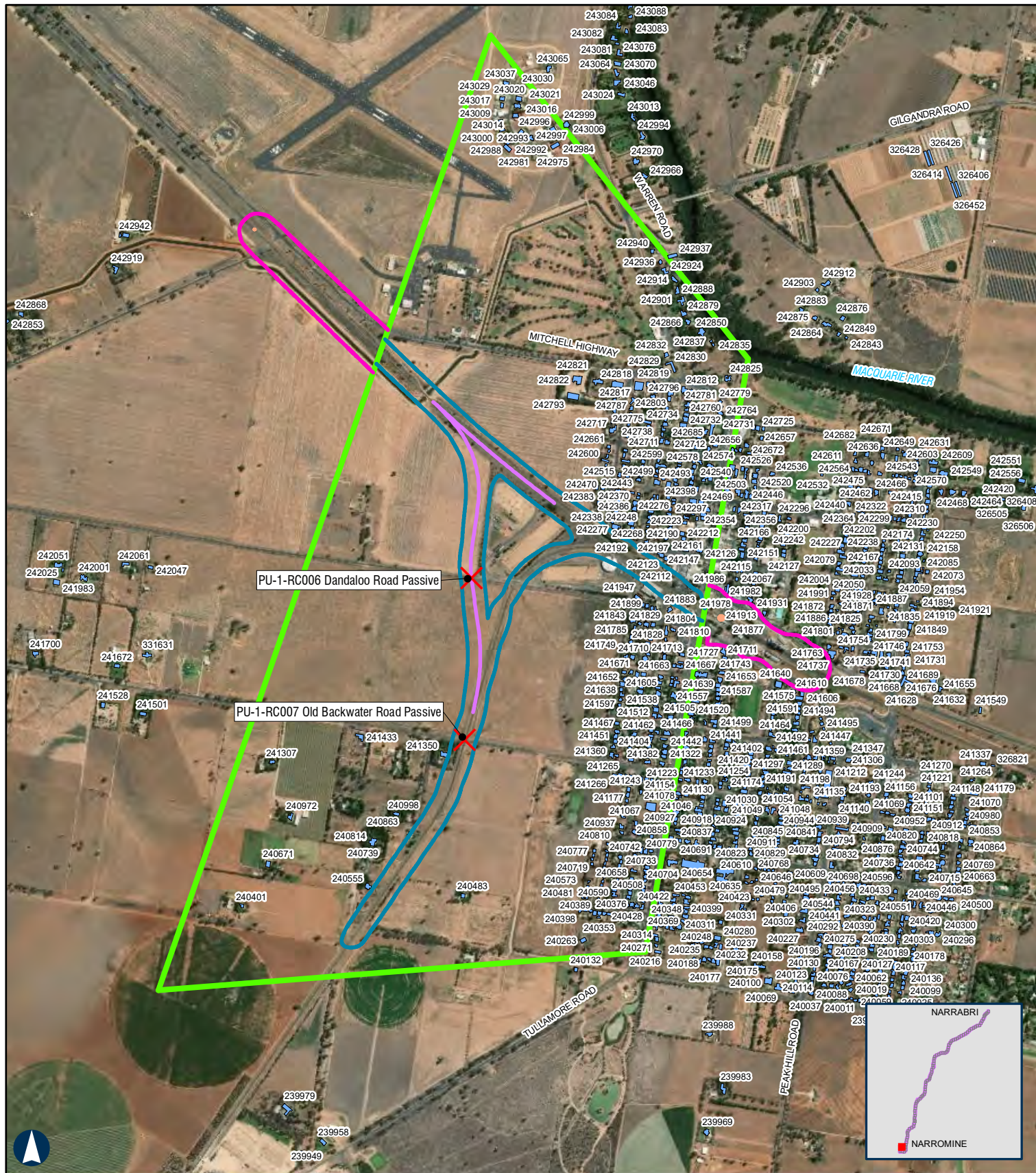
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- Daytime noise criteria LAeq15hr 60dBA new rail corridor
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## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

## APPENDIX D - Map 6 of 168

500 m

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Paper: A4 Scale: 1:20,000

Date: 31-Jul-2020  
Author: JG

- ✕ Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

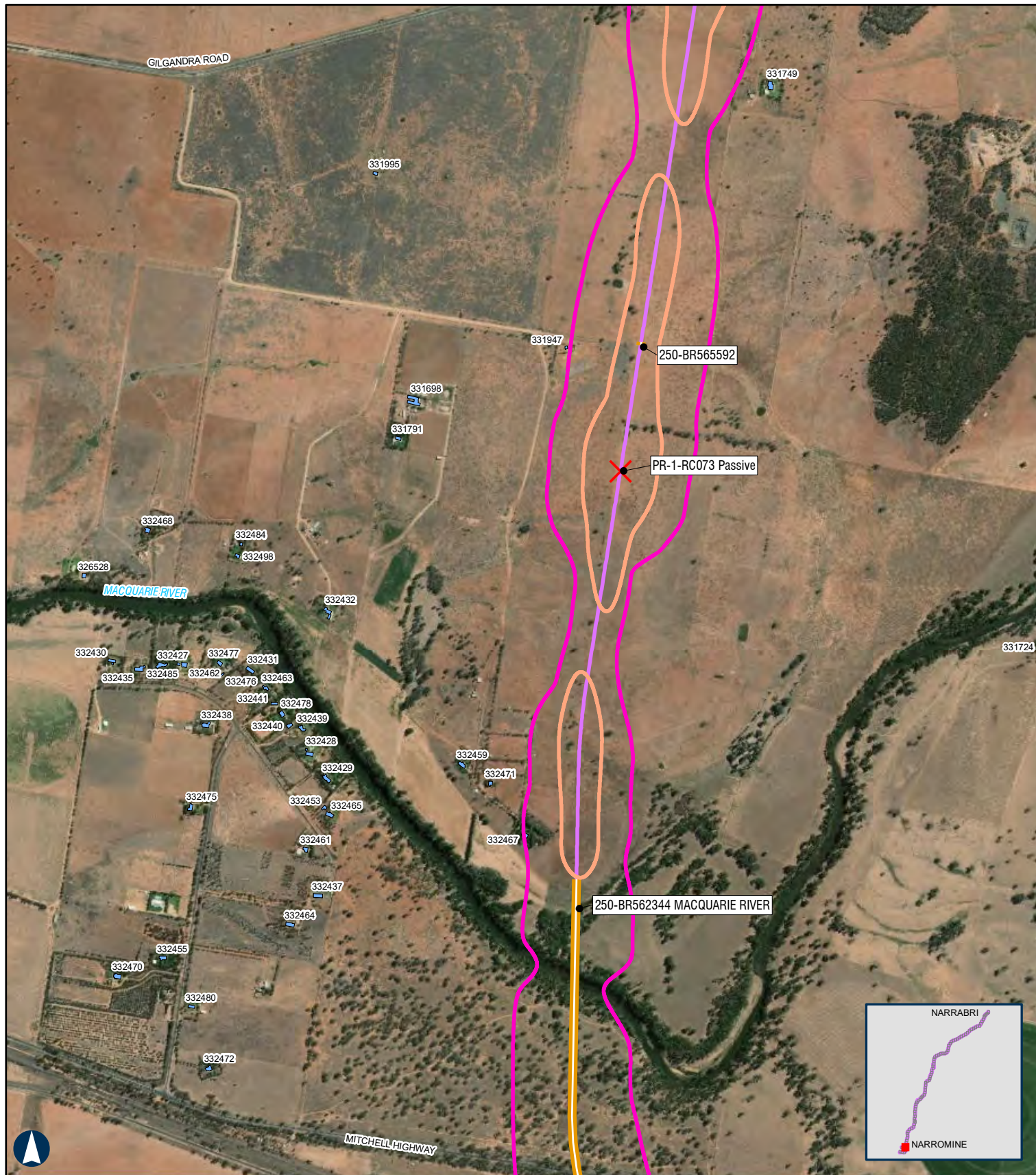
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## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 7 of 168

500 m

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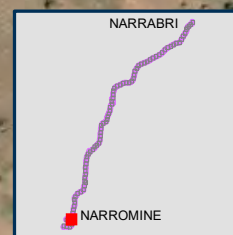
Paper: A4  
Date: 31-Jul-2020  
Author: JG

Scale: 1:20,000

- ✕ Level Crossings
- Proposal Extent
- Crossing Loops
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Noise contours are based on a set distance above the local terrain level of 2.4m.

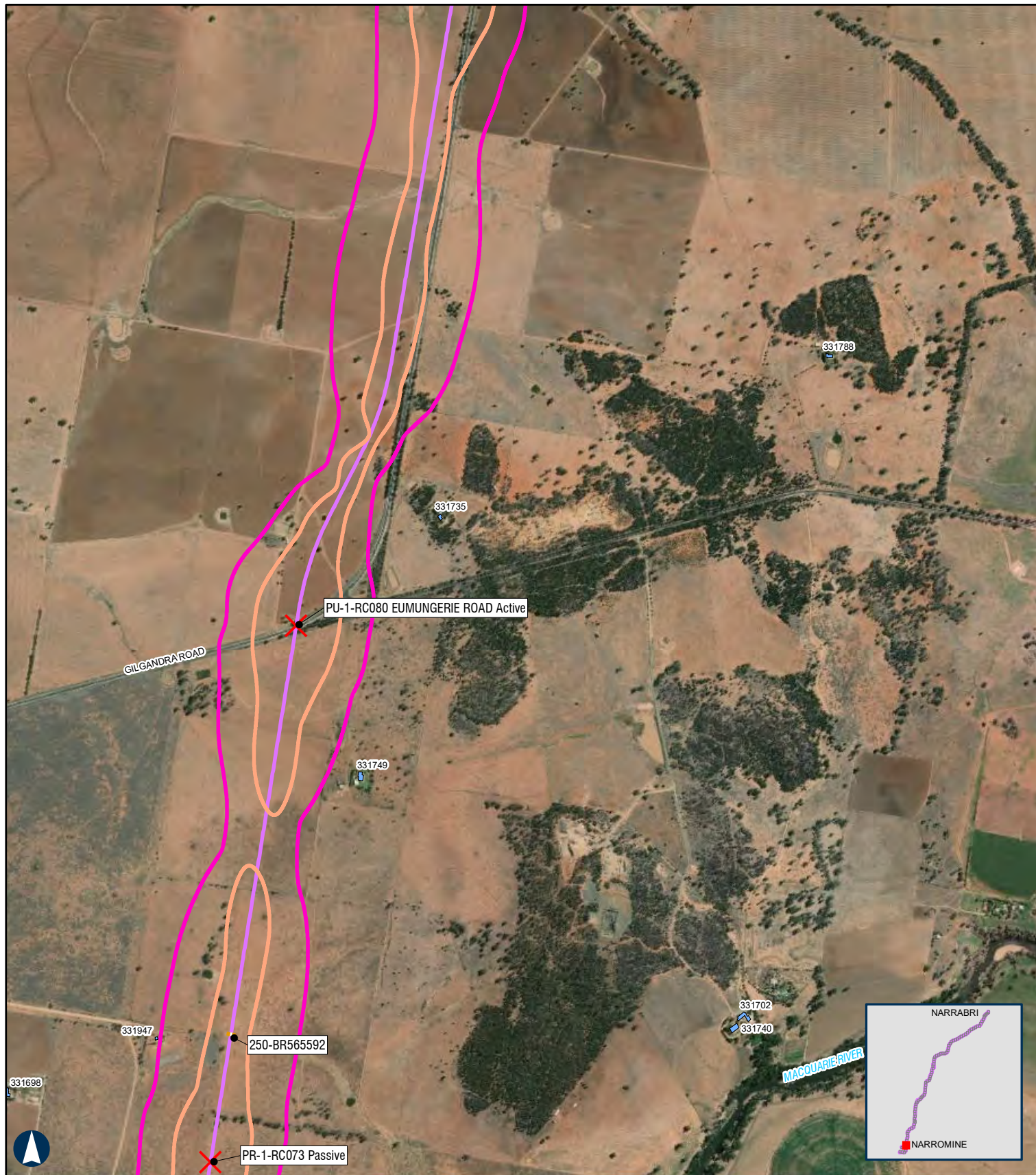
- Daytime noise criteria LAeq15hr 60dBA new rail corridor
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## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 8 of 168

500 m

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Scale: 1:20,000

- X Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

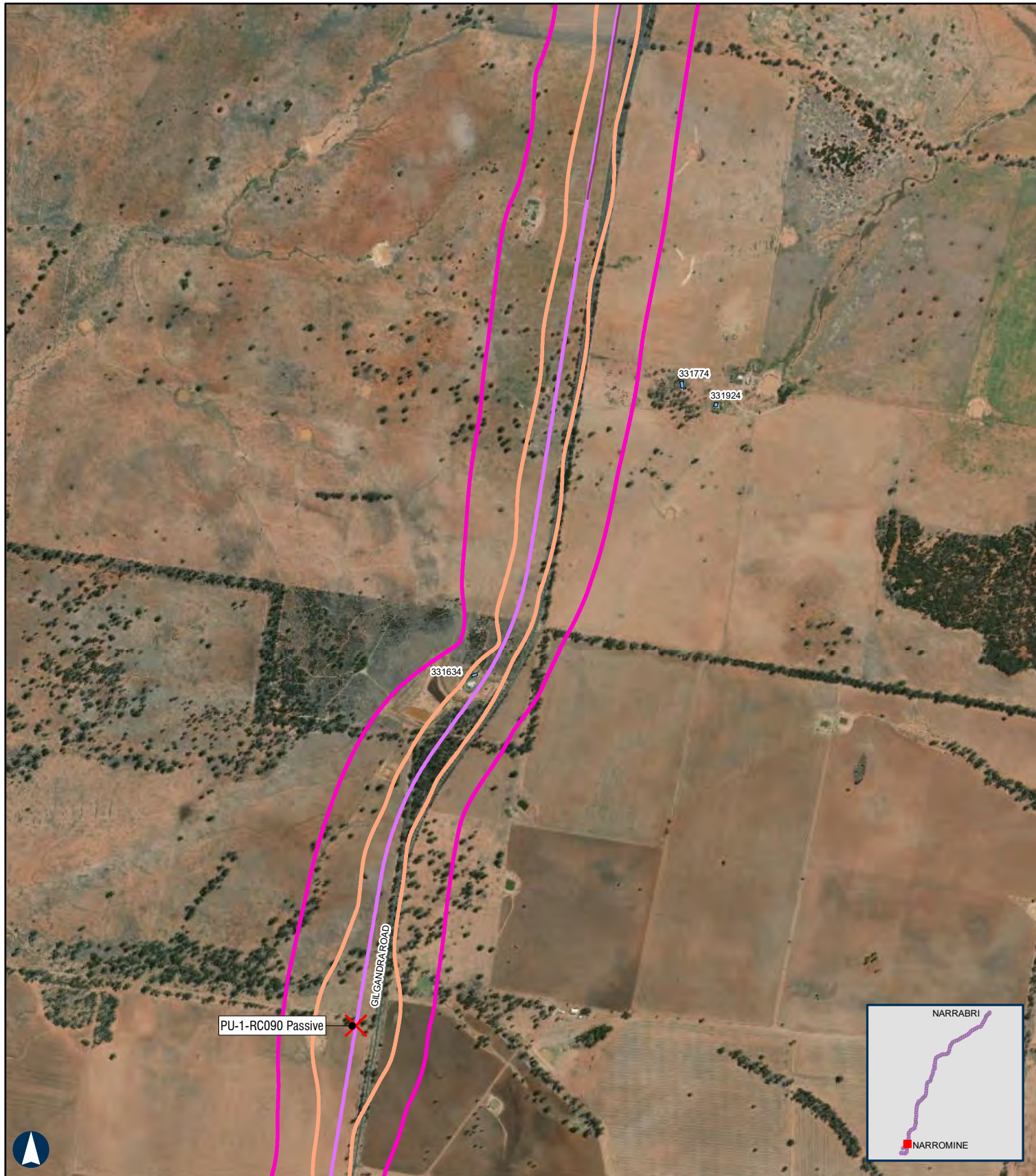
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- Daytime noise criteria LAeq15hr 60dBA new rail corridor
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## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 9 of 168

500 m

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Author: JG

Scale: 1:20,000

- X Level Crossings
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- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

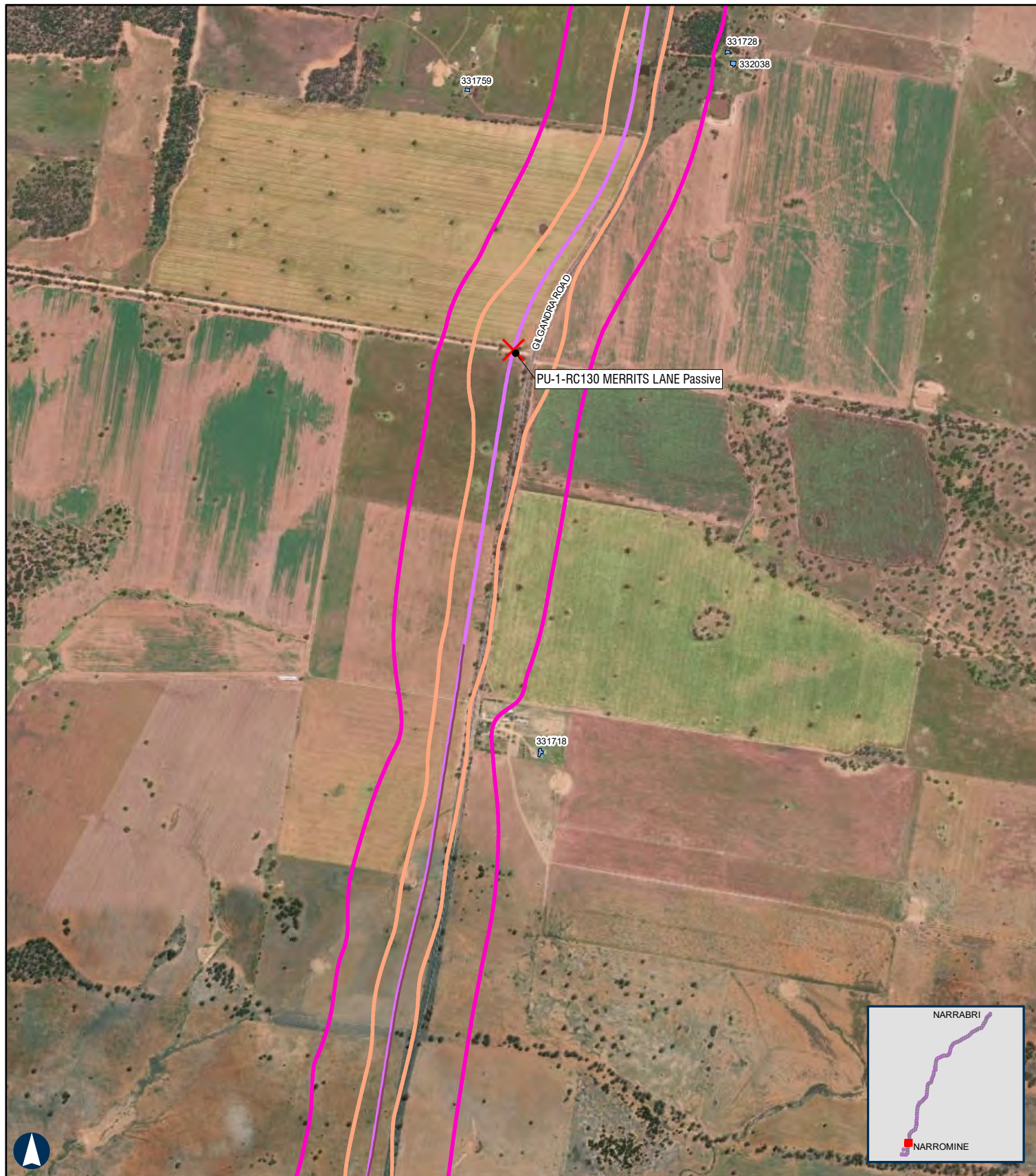
Noise contours are based on a set distance above the local terrain level of 2.4m.

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## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 10 of 168

500 m

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Scale: 1:20,000

Date: 31-Jul-2020

Author: JG

- X Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

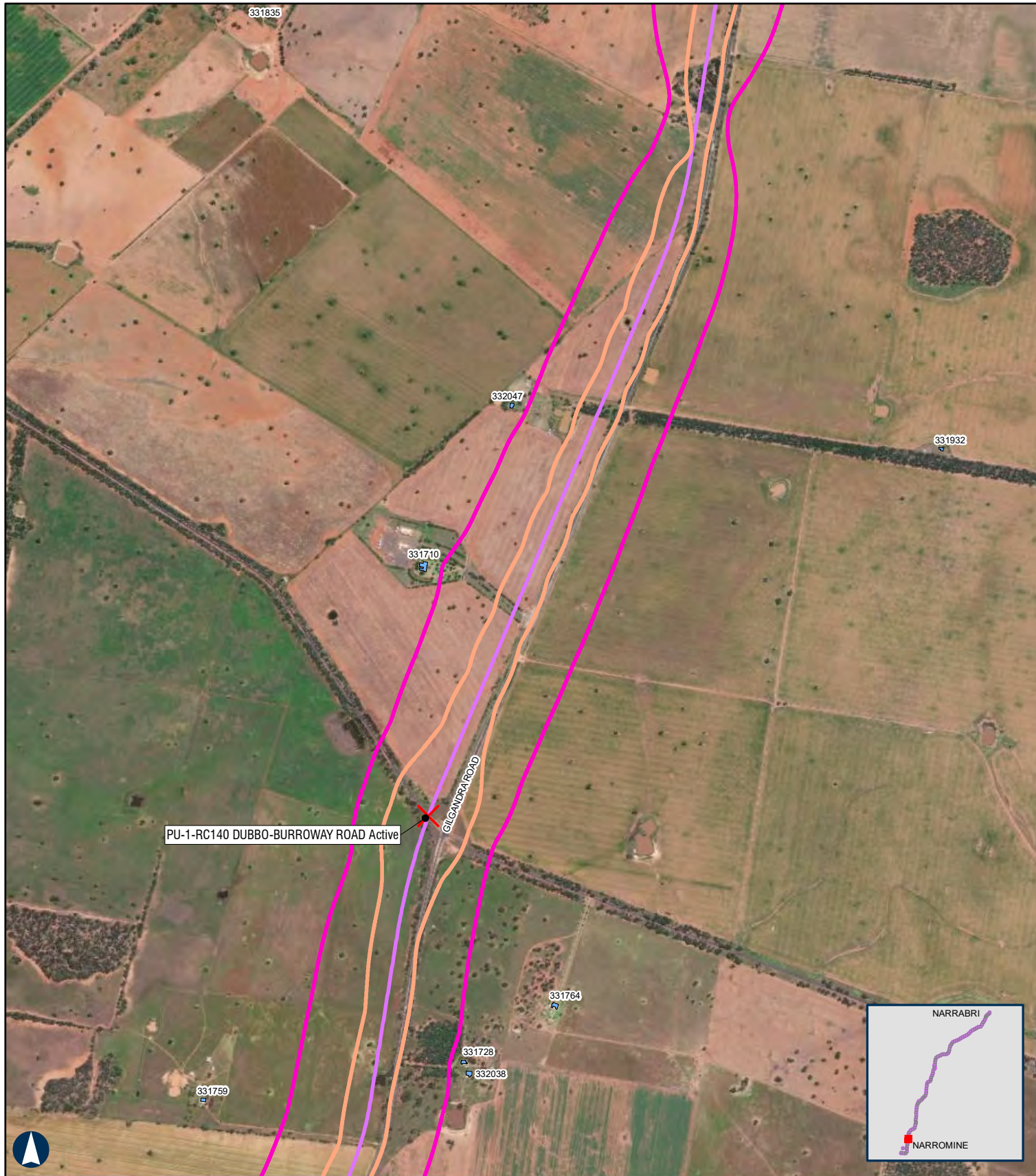
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- Daytime noise criteria LAeq15hr 60dBA new rail corridor
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## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 11 of 168

500 m

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Paper: A4  
Date: 31-Jul-2020  
Author: JG

Scale: 1:20,000

- X Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

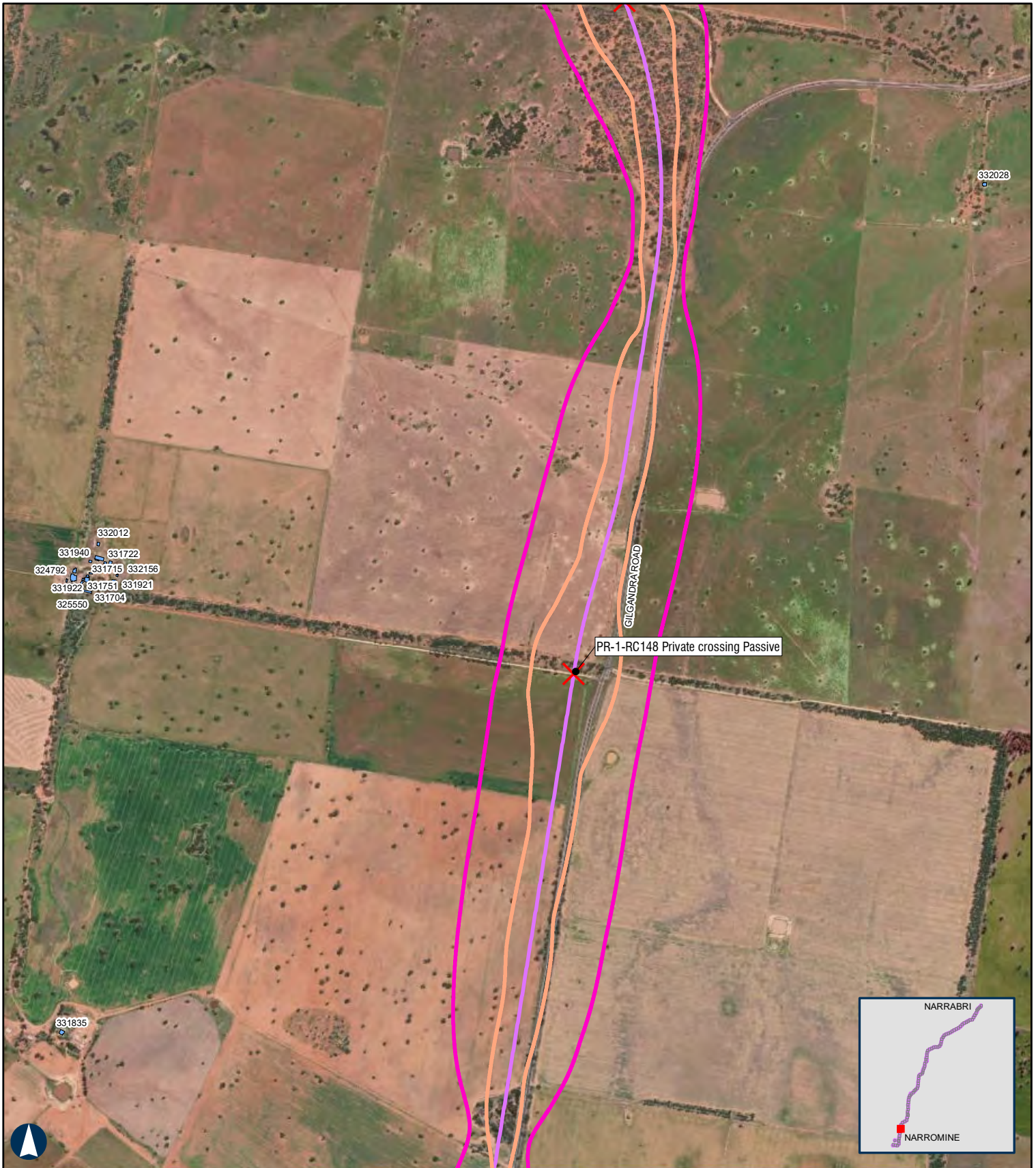
Noise contours are based on a set distance above the local terrain level of 2.4m.

- Daytime noise criteria LAeq15hr 60dBA new rail corridor
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- Daytime noise criteria LA max 80dBA new rail corridor
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## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 12 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4  
Date: 31-Jul-2020  
Author: JG

Scale: 1:20,000

- ✕ Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

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

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500 m

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✗

Level Crossings

—

Proposal Extent

—

Crossing Loops

—

Rail Alignment/Centreline

—

Bridges and Viaducts

■

Sensitive Receivers

■

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

APPENDIX D - Map 13 of 168

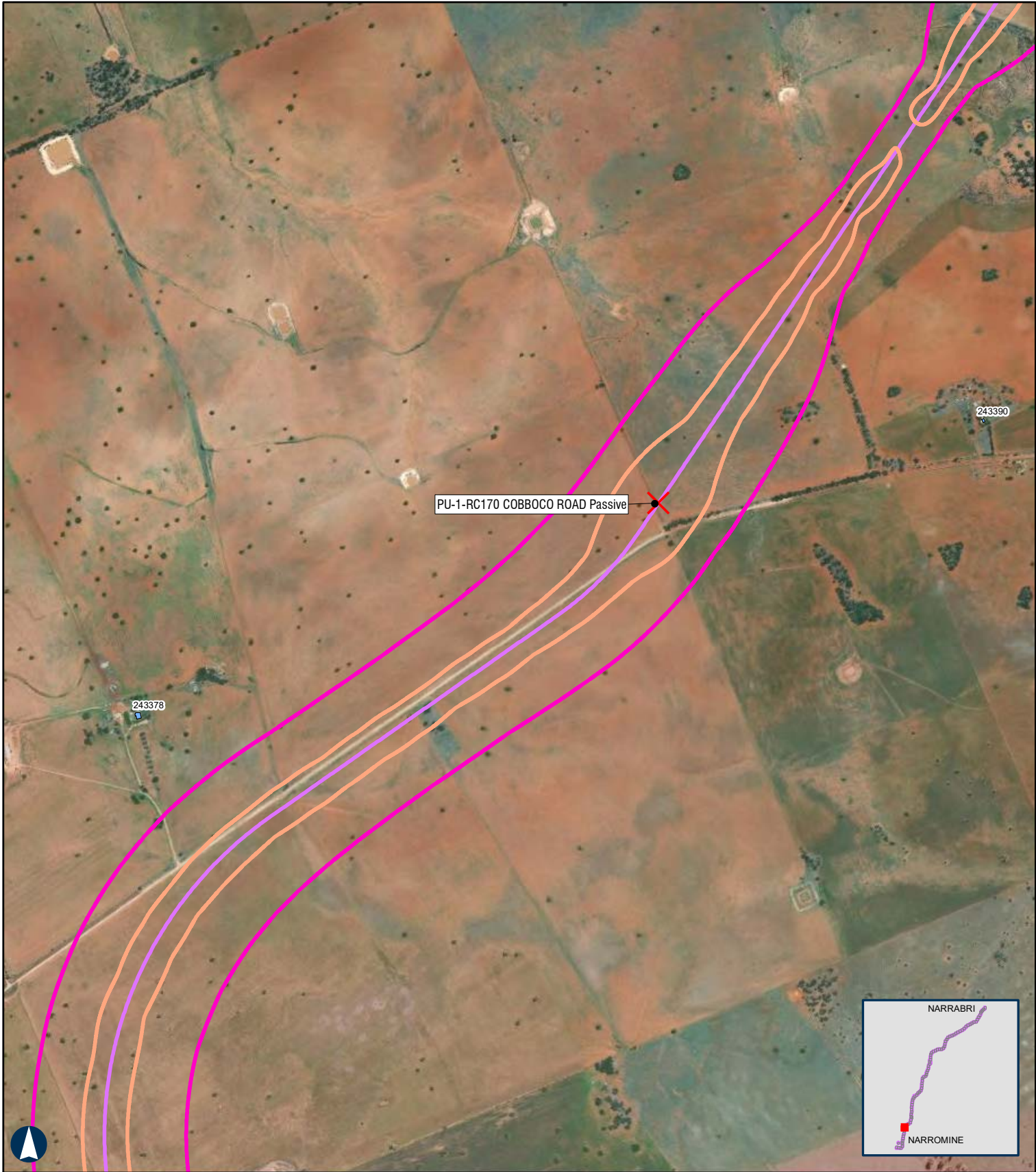
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Service Layer Credits: Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community





## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 14 of 168

500 m

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Scale: 1:20,000

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- Crossing Loops
- Rail Alignment/Centreline
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- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

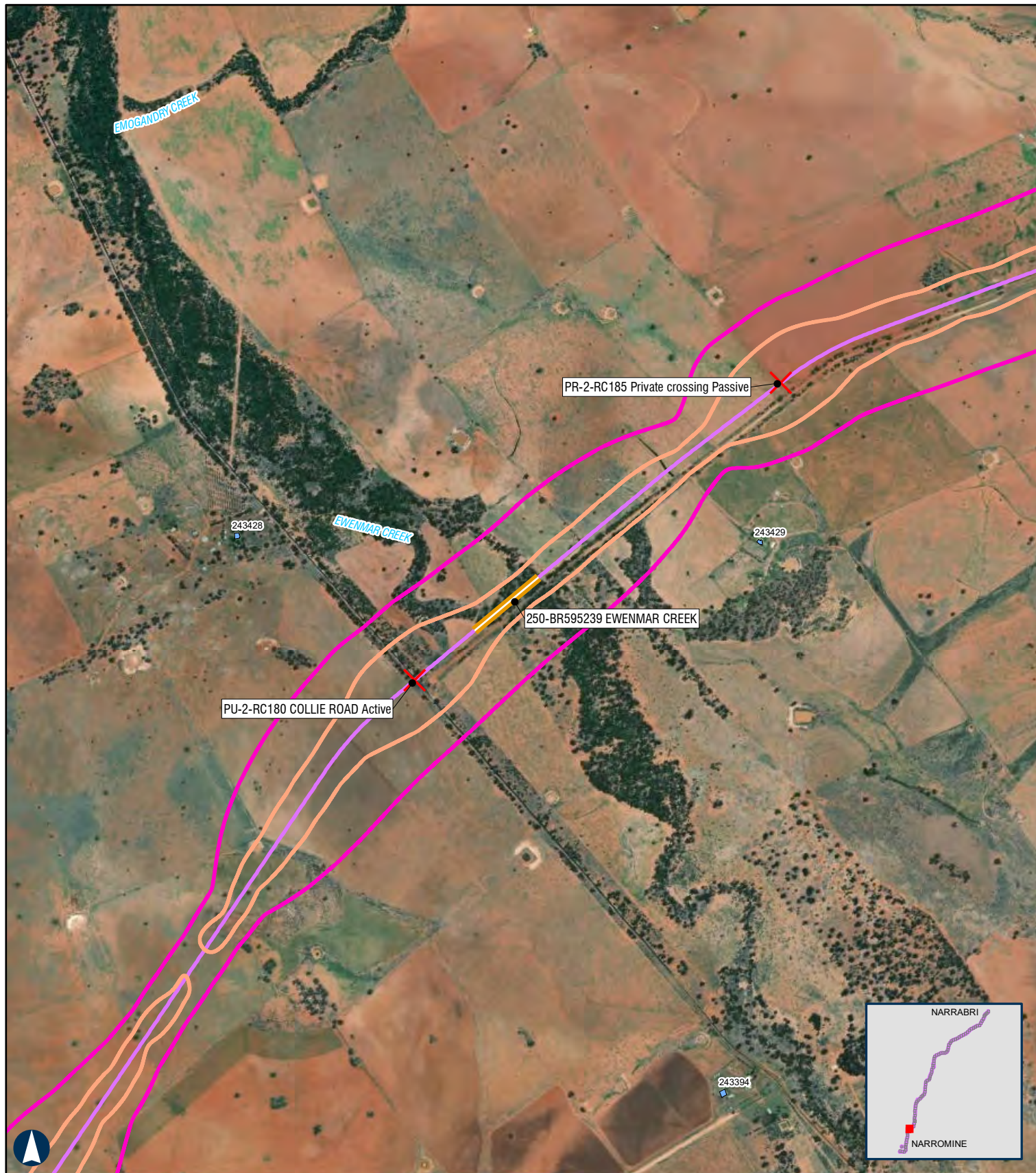
Noise contours are based on a set distance above the local terrain level of 2.4m.

- Daytime noise criteria LAeq15hr 60dBA new rail corridor
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## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 15 of 168

500 m

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Date: 31-Jul-2020  
Author: JG

Scale: 1:20,000

- ✕ Level Crossings
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- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

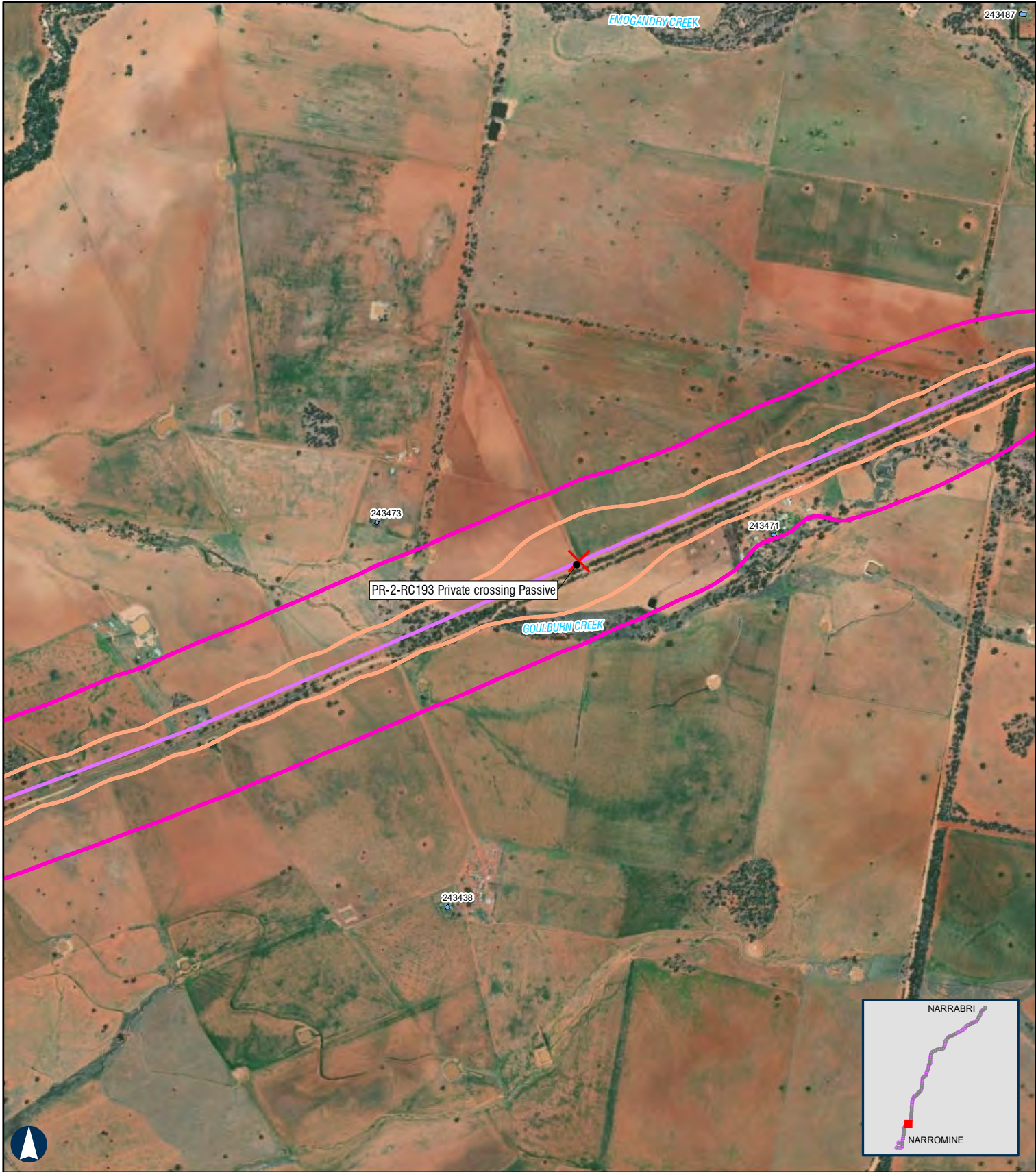
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**NARROMINE TO NARRABRI** Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 16 of 168

500 m

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- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

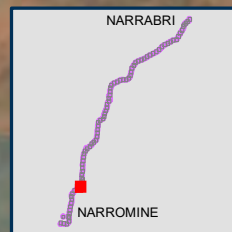
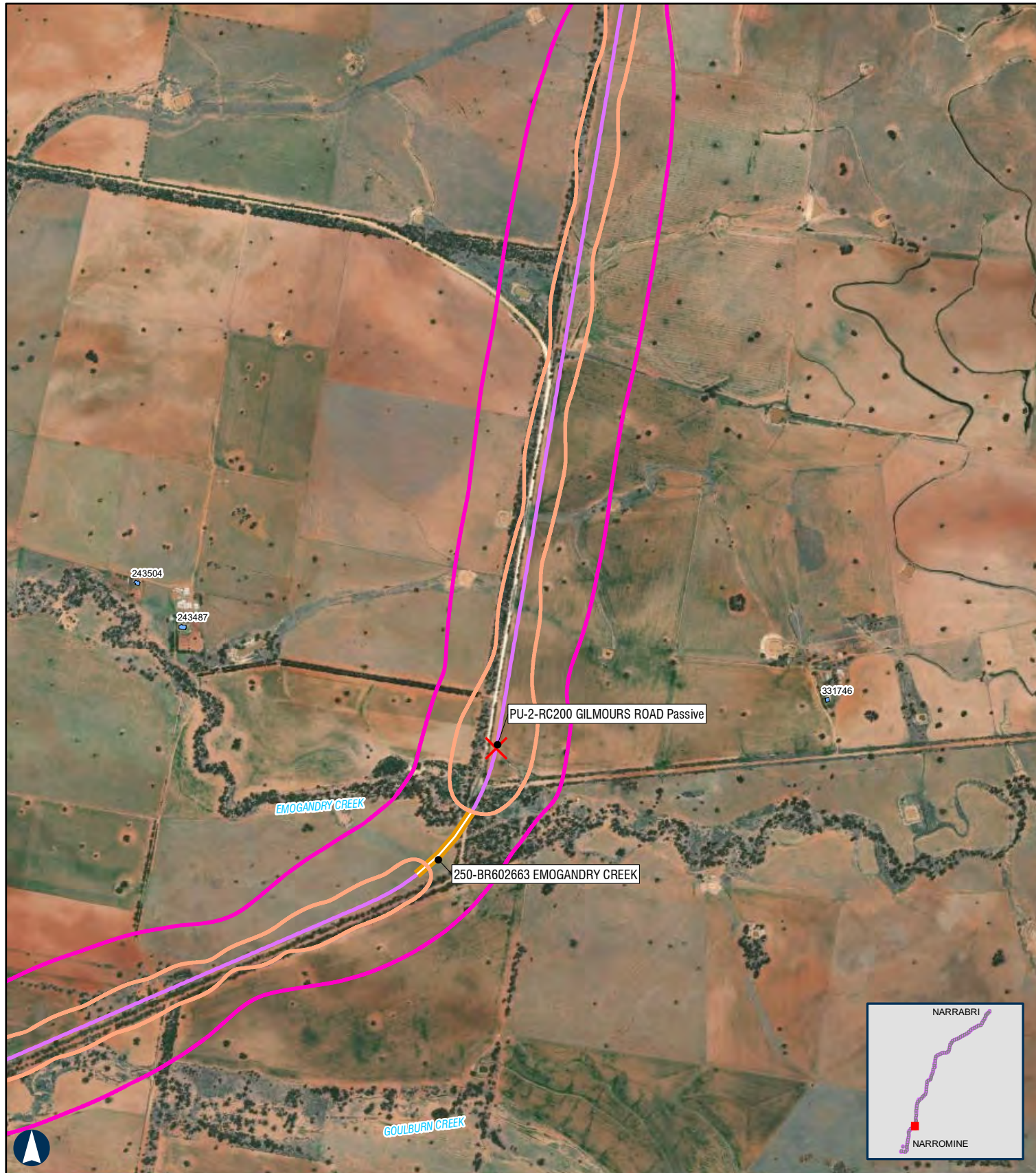
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## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 17 of 168

500 m

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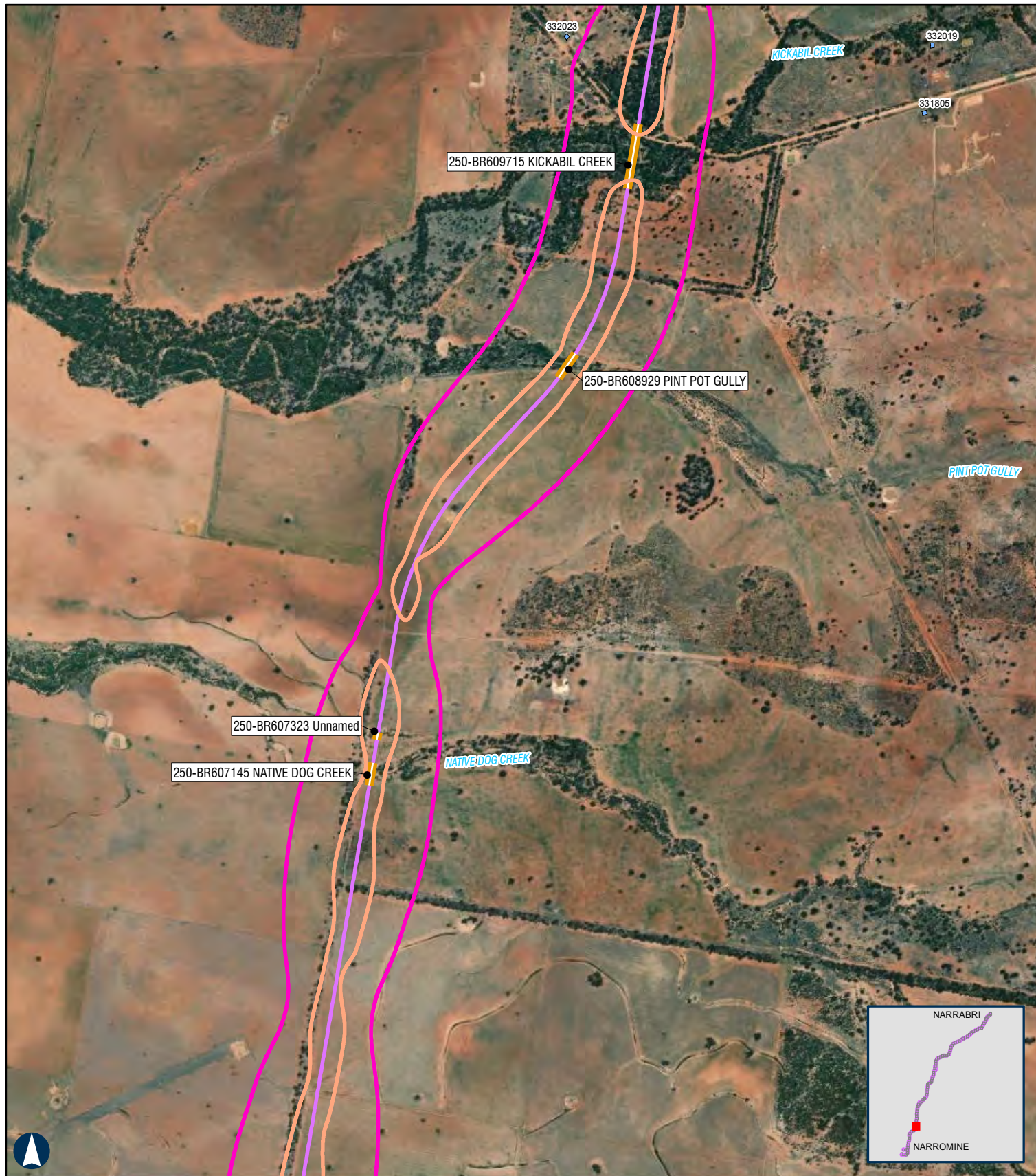
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## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 18 of 168

500 m

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- Noise Assessment Area – Upgrading Existing Railway

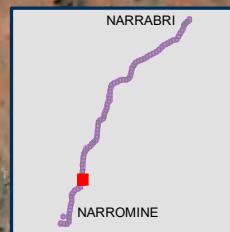
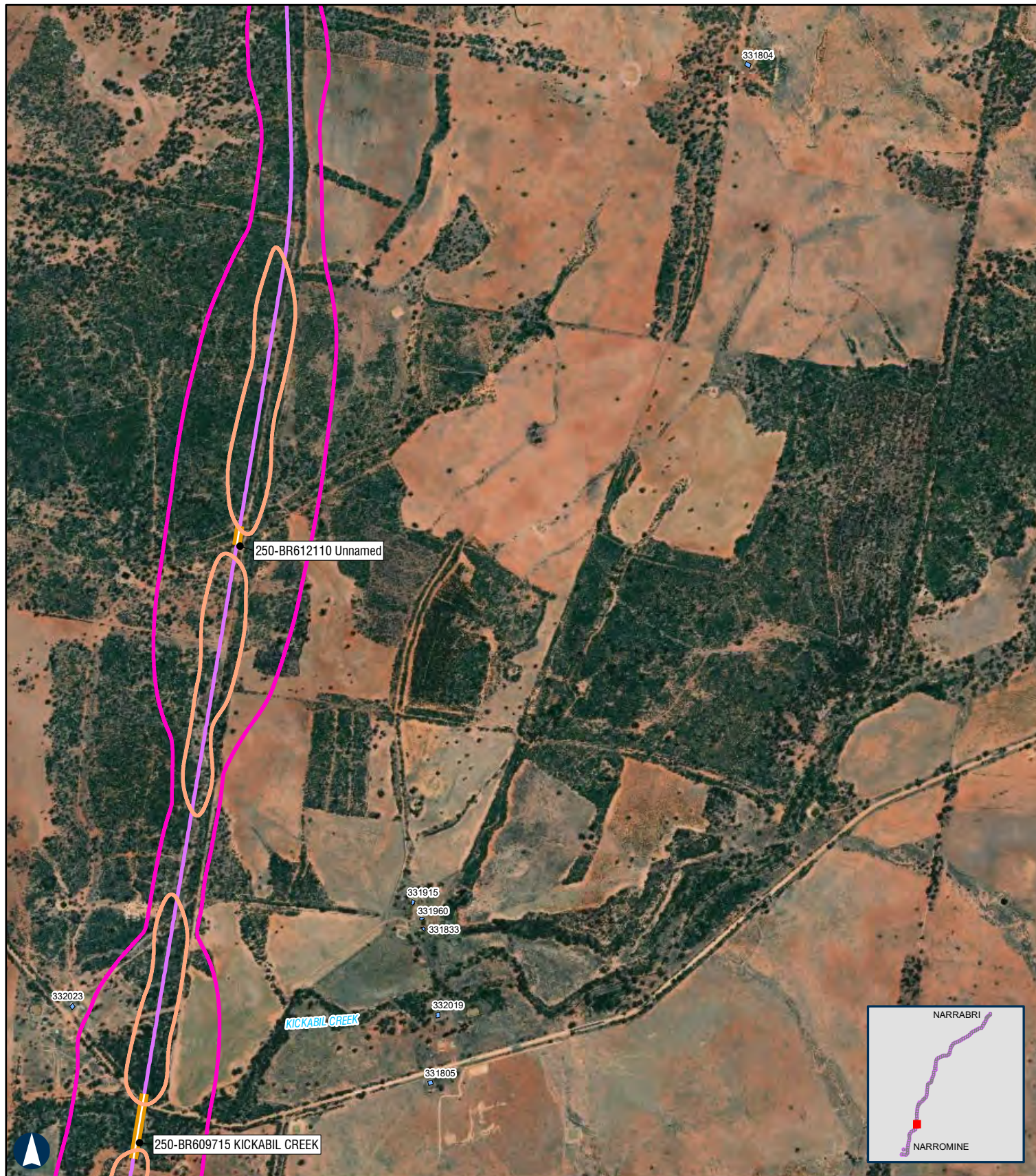
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- Daytime noise criteria LAeq15hr 65dBA upgrading existing rail corridor
- Daytime noise criteria LA max 80dBA new rail corridor
- Daytime noise criteria LA max 85dBA upgrading existing rail corridor

**ARTC** **InlandRail**

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## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 19 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4  
Date: 31-Jul-2020  
Author: JG

Scale: 1:20,000

- ✗ Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- 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

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## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 20 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4  
Date: 31-Jul-2020  
Author: JG

Scale: 1:20,000

- Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

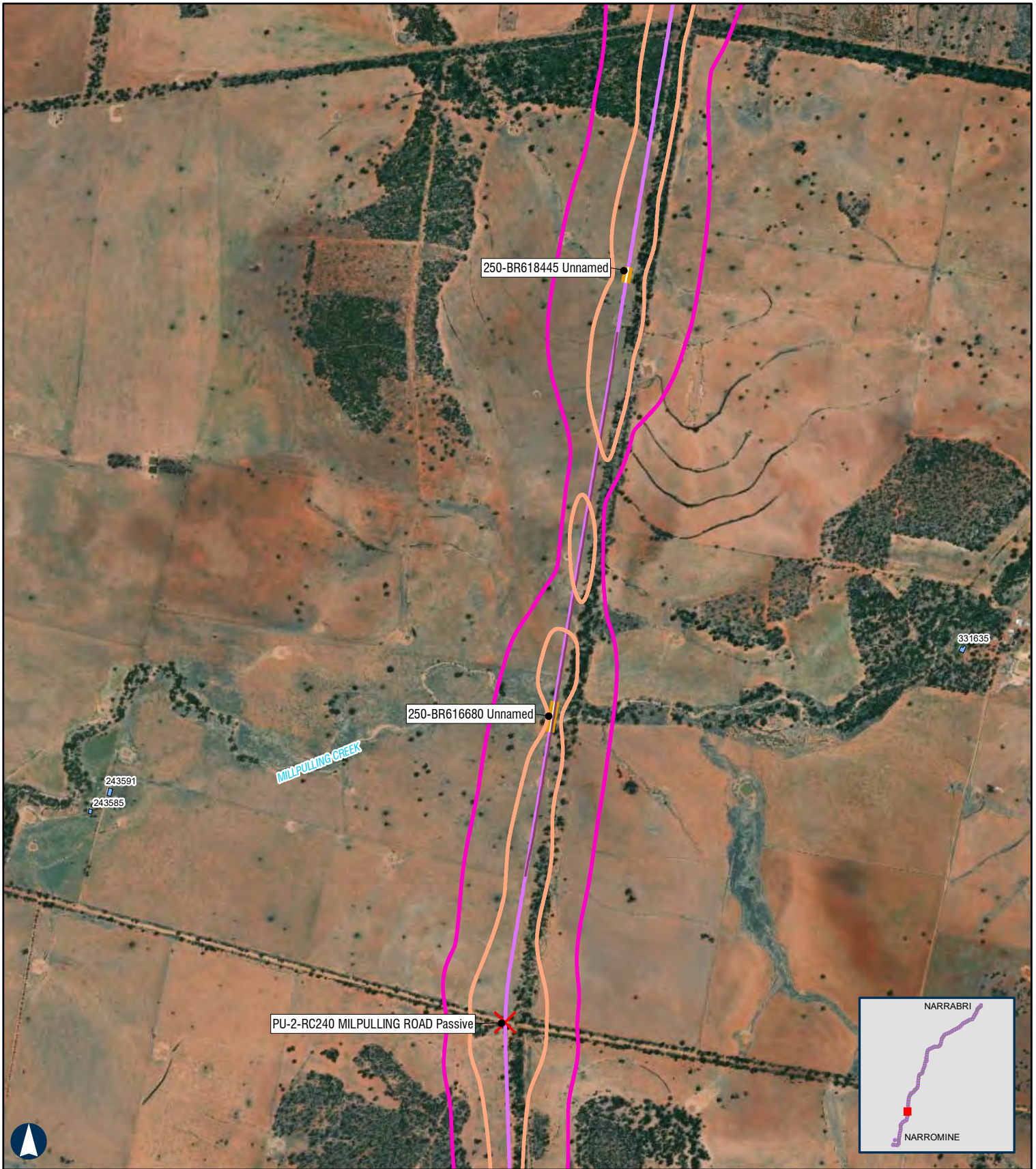
Noise contours are based on a set distance above the local terrain level of 2.4m.

- 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

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## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 21 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4  
Date: 31-Jul-2020  
Author: JG

Scale: 1:20,000

- Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

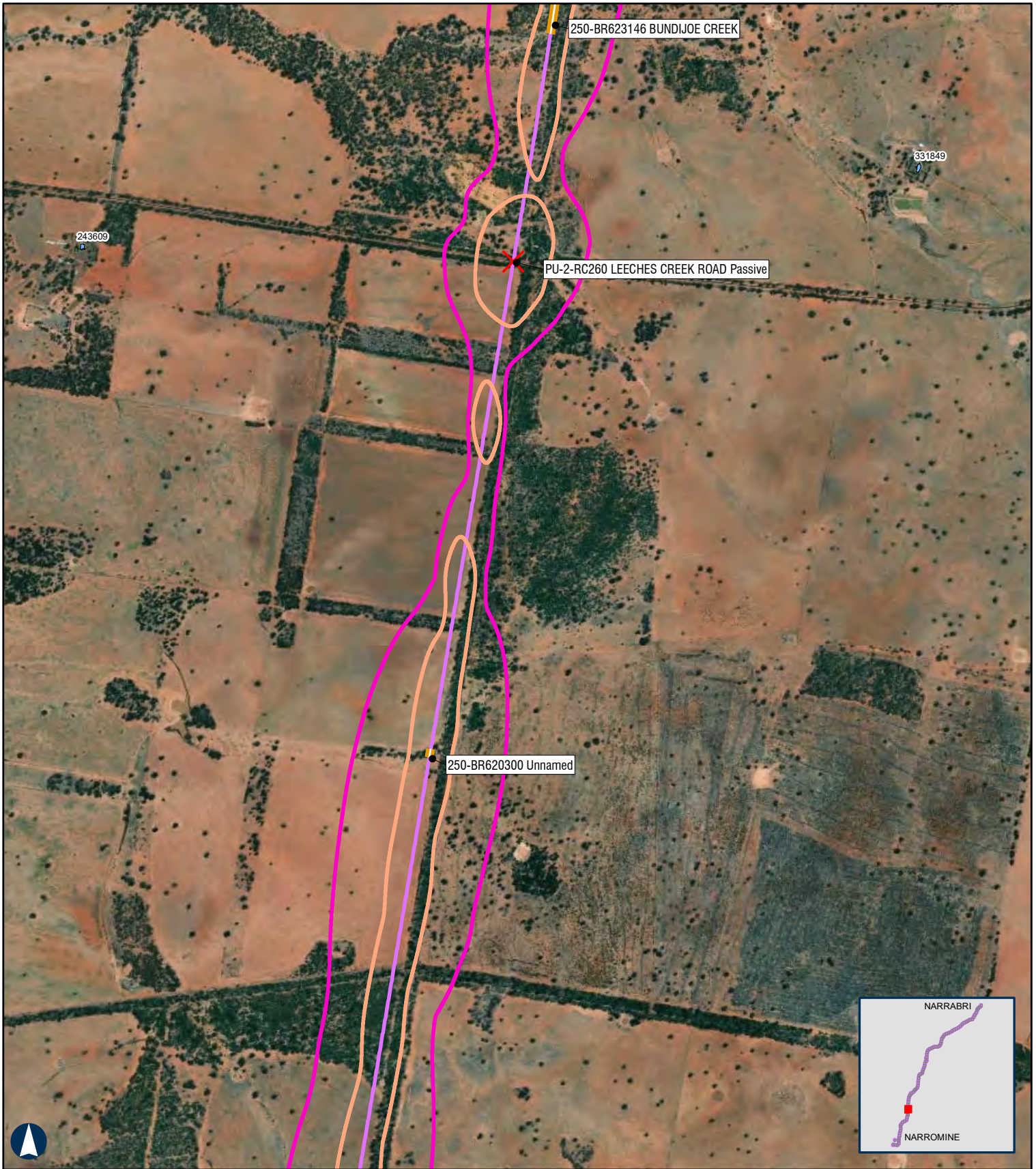
Noise contours are based on a set distance above the local terrain level of 2.4m.

- 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

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## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 22 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4  
Date: 31-Jul-2020  
Author: JG

Scale: 1:20,000

- X Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

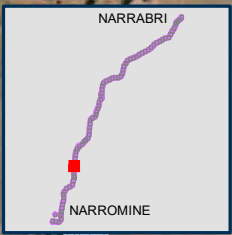
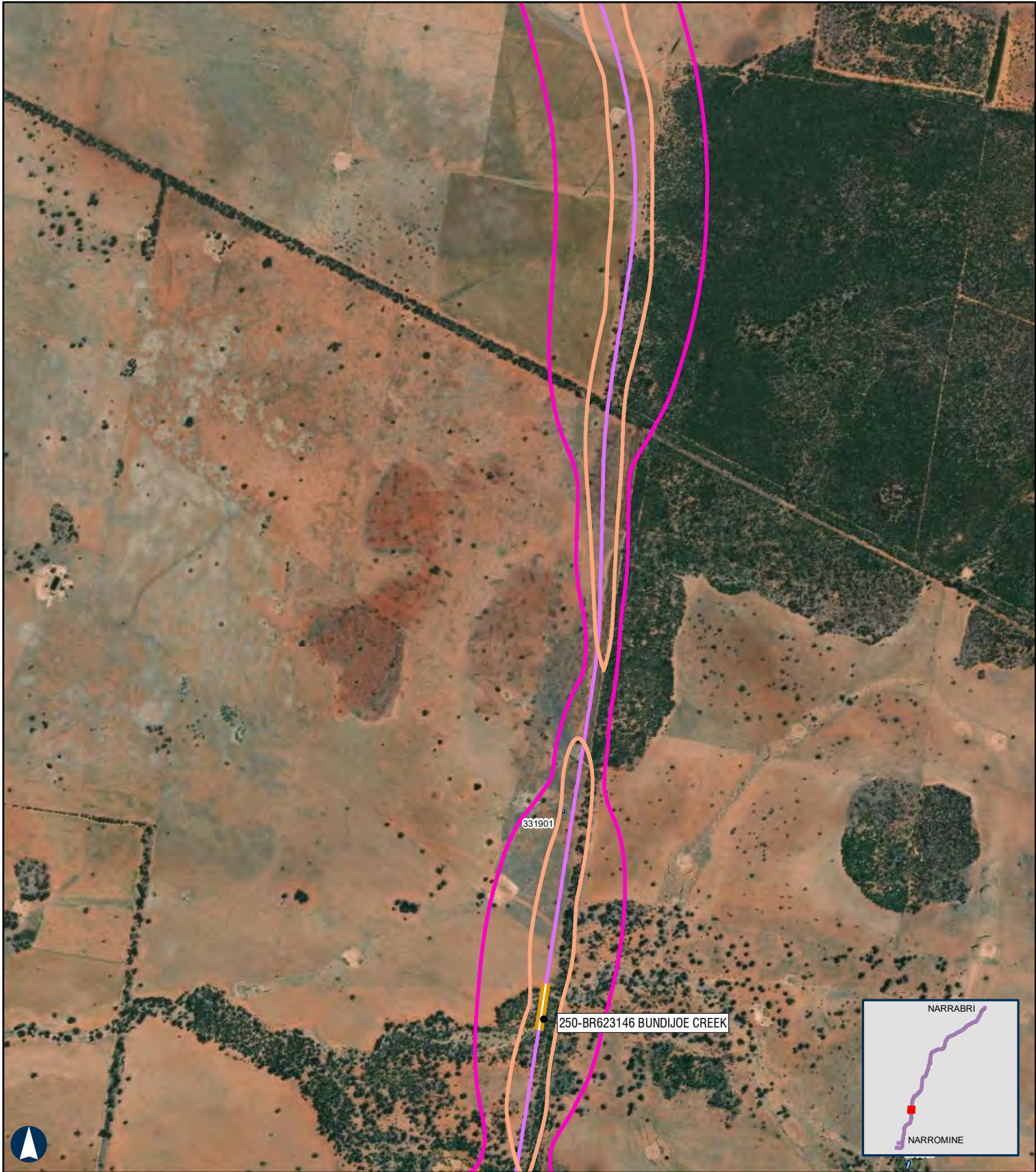
Noise contours are based on a set distance above the local terrain level of 2.4m.

- 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

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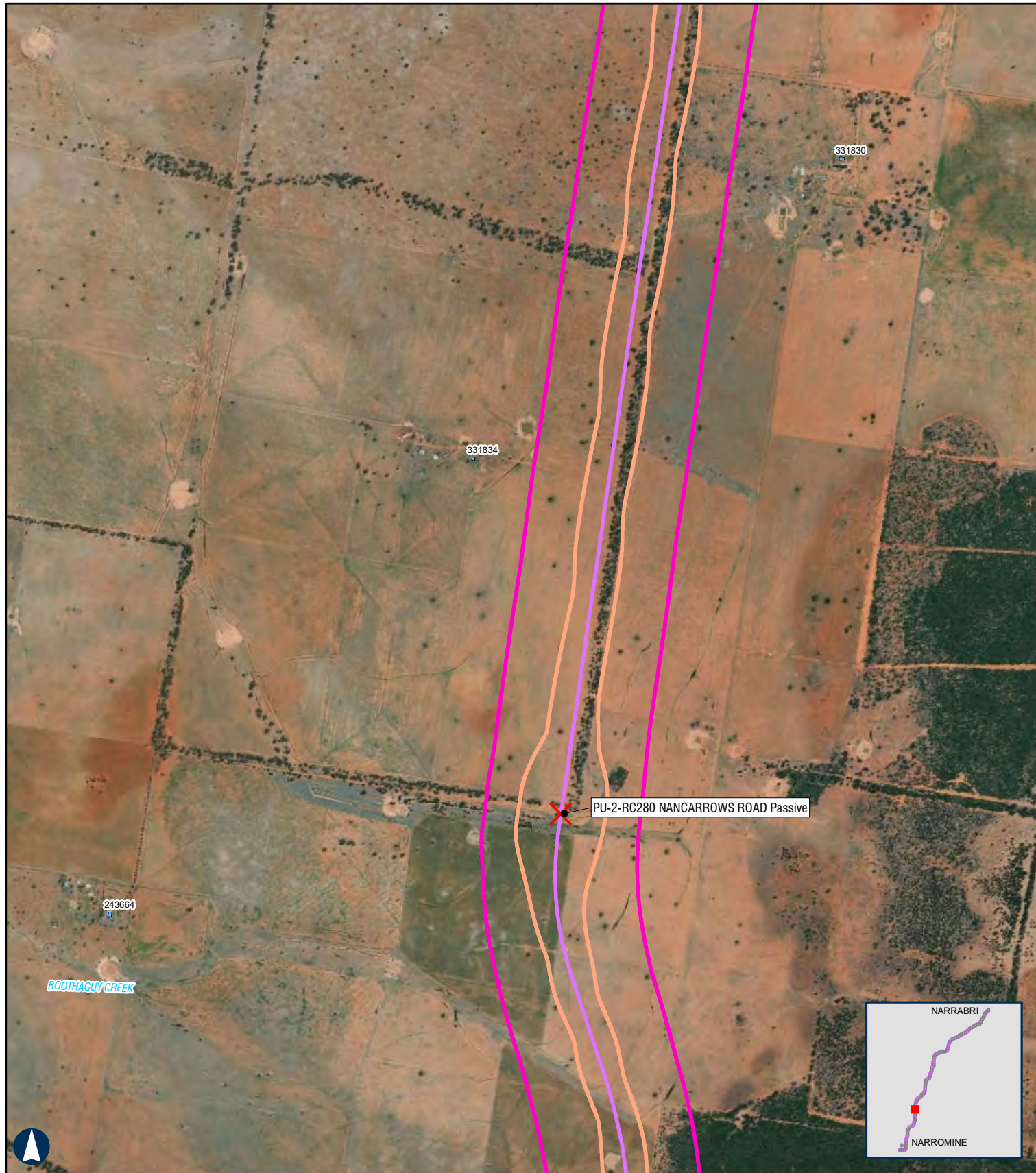


| NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                           | APPENDIX D - Map 23 of 168                                                                                                                                                                                                                                                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>500 m</b></p> <p>Coordinate System: GDA 1994 MGA Zone 55</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<br/>Date: 31-Jul-2020<br/>Author: JG</p> | <p><b>Legend:</b></p> <ul style="list-style-type: none"> <li>✗ Level Crossings</li> <li>— Proposal Extent</li> <li>— Crossing Loops</li> <li>— Rail Alignment/Centreline</li> <li>— Bridges and Viaducts</li> <li>— Sensitive Receivers</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> | <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> |

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## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 24 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4

Scale: 1:20,000

Date: 31-Jul-2020

Author: JG

✗ Level Crossings

— Proposal Extent

— Crossing Loops

— Rail Alignment/Centreline

— Bridges and Viaducts

— Sensitive Receivers

— 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

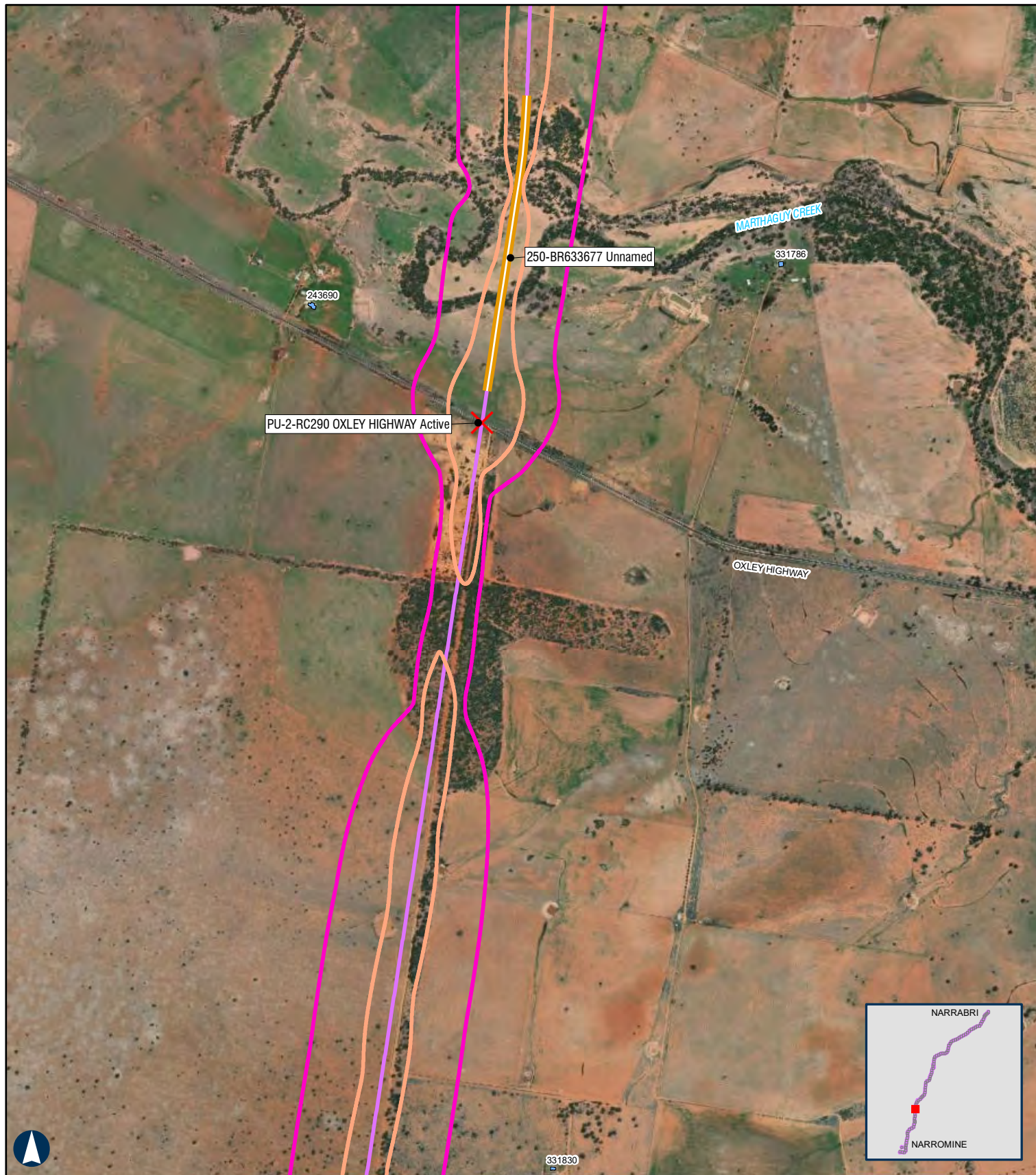
— Daytime noise criteria LA max 80dBA new rail corridor

— Daytime noise criteria LA max 85dBA upgrading existing rail corridor

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## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 25 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4  
Date: 31-Jul-2020  
Author: JG  
Scale: 1:20,000

- Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

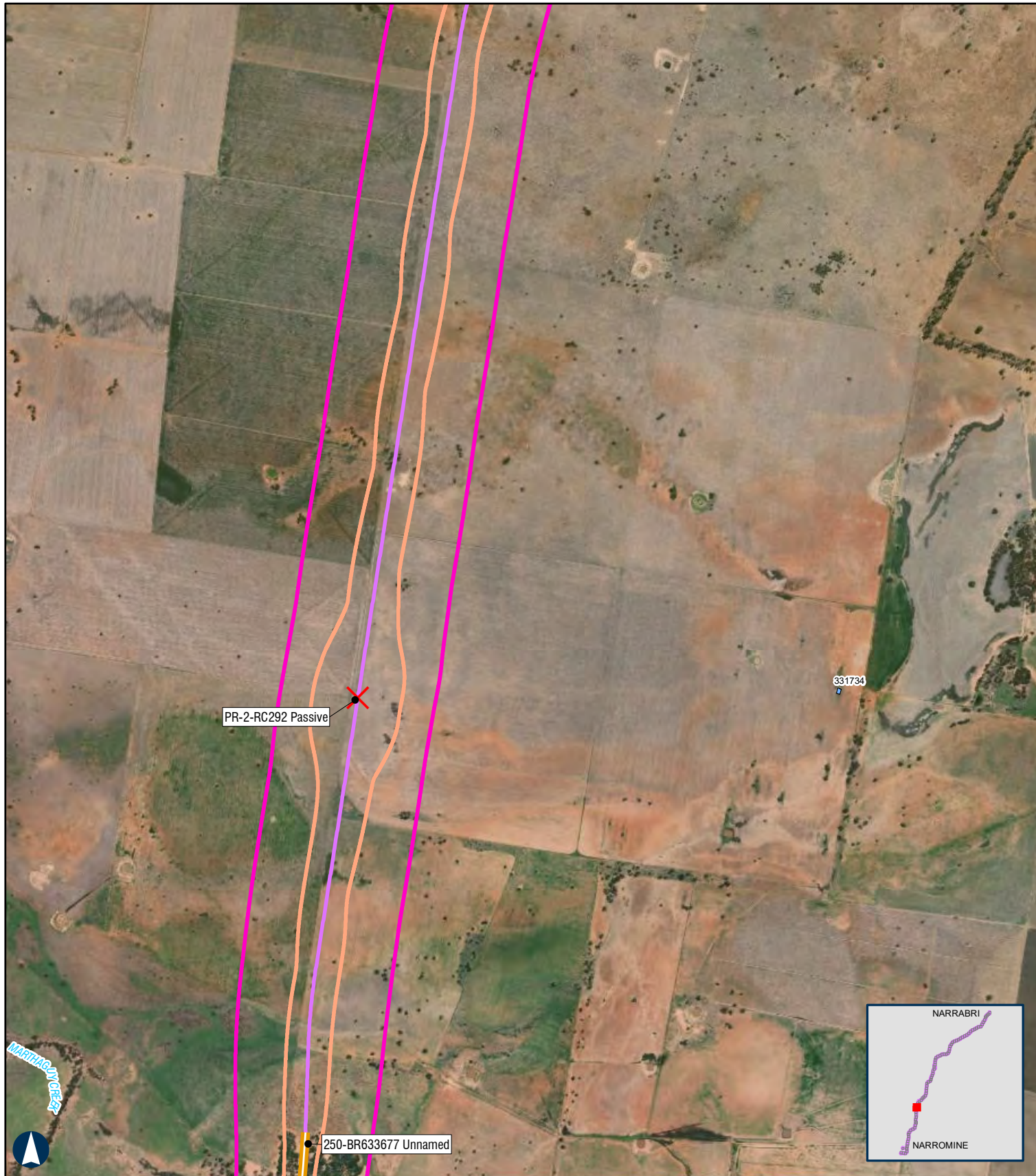
Noise contours are based on a set distance above the local terrain level of 2.4m.

- 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

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## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 26 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4  
Date: 31-Jul-2020  
Author: JG

Scale: 1:20,000

- X Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

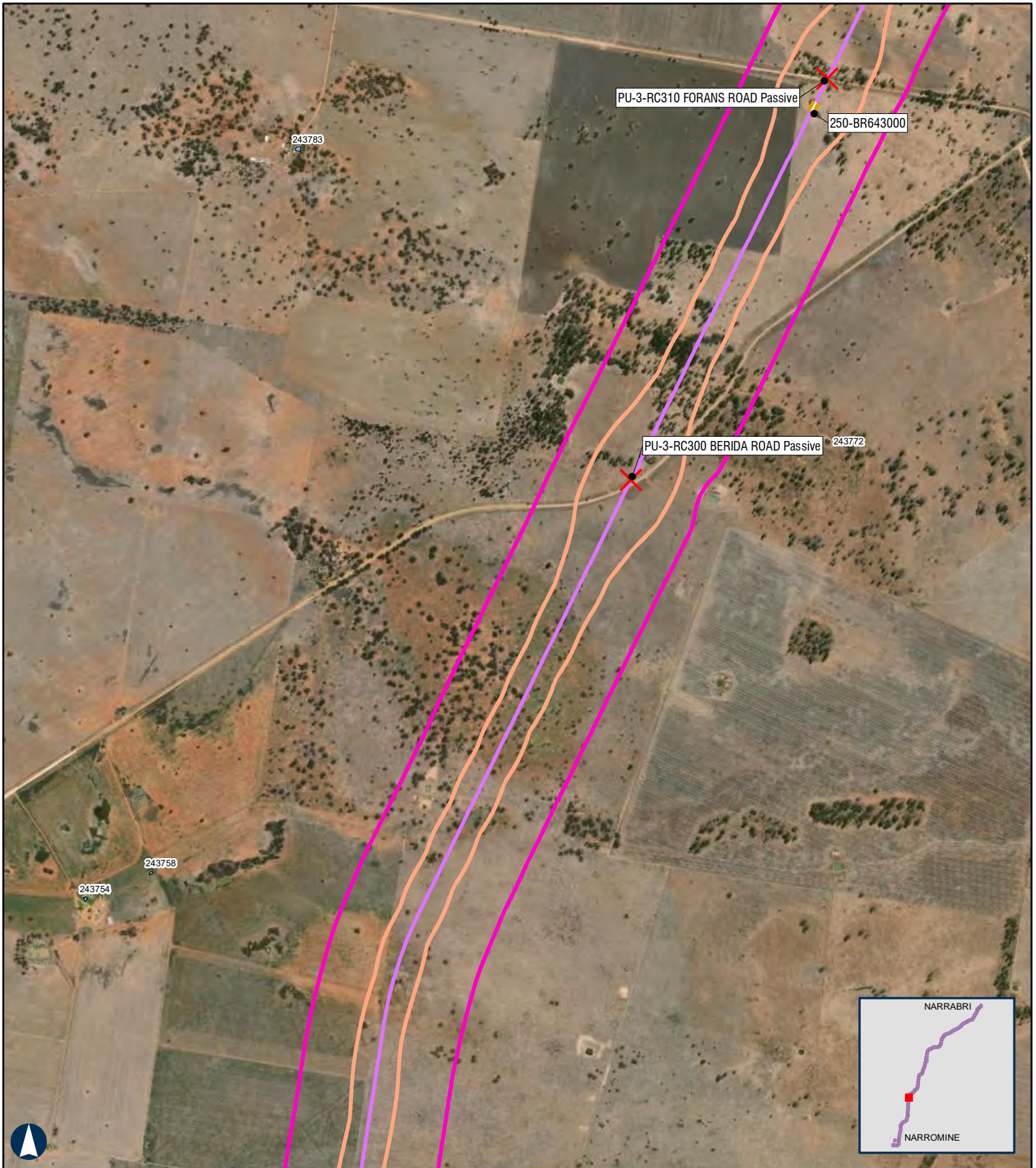
Noise contours are based on a set distance above the local terrain level of 2.4m.

- 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

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## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 27 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4  
Date: 31-Jul-2020  
Author: JG

Scale: 1:20,000

- Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

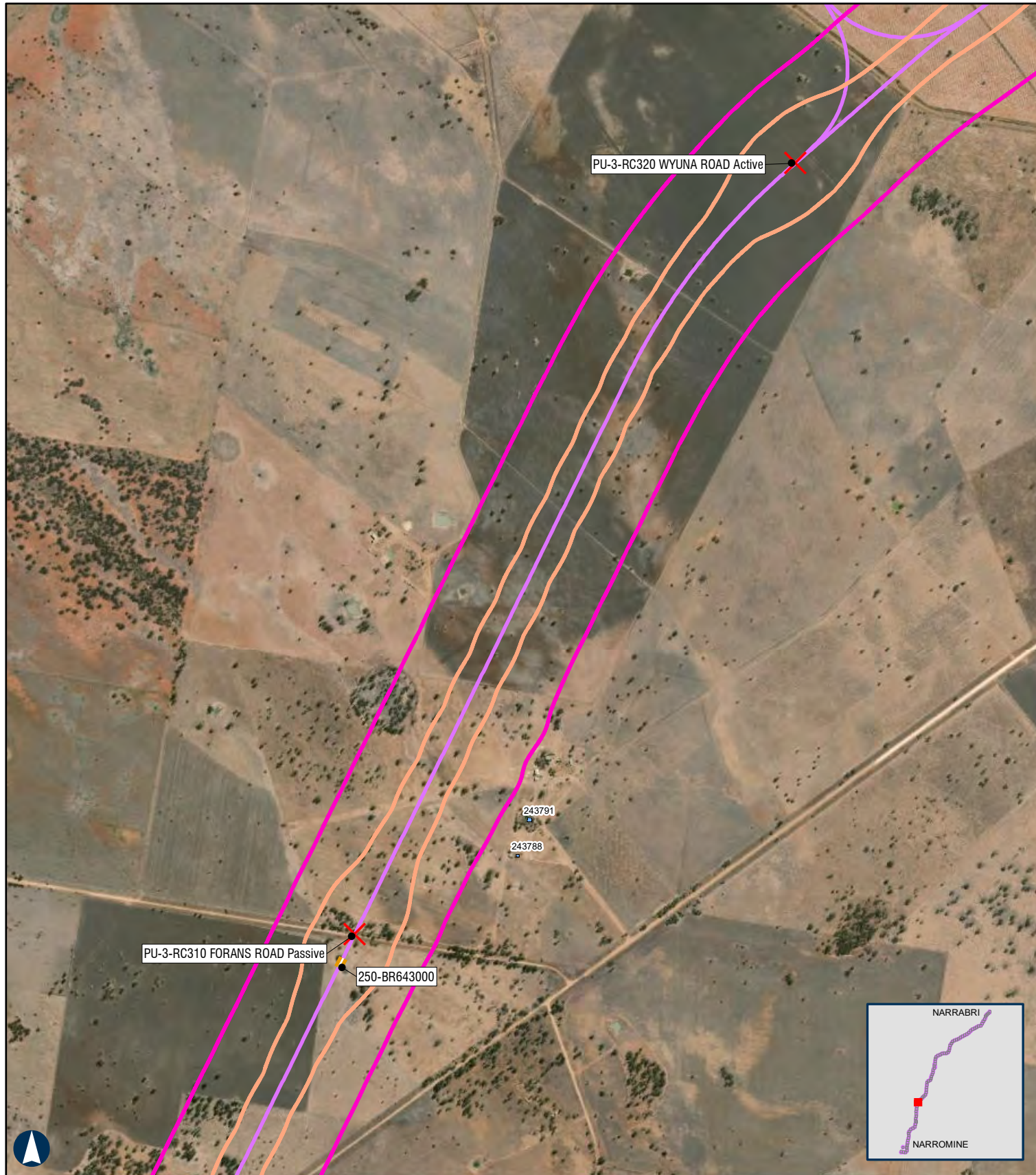
Noise contours are based on a set distance above the local terrain level of 2.4m.

- 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

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## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 28 of 168

500 m

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Scale: 1:20,000

Date: 31-Jul-2020

Author: JG

- ✕ Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

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

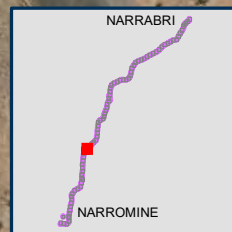
- Daytime noise criteria LAeq15hr 60dBA new rail corridor
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- Daytime noise criteria LA max 80dBA new rail corridor
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## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 29 of 168

500 m

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Scale: 1:20,000

Date: 31-Jul-2020

Author: JG

- ✕ Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- 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

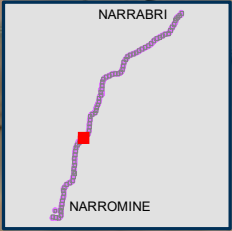
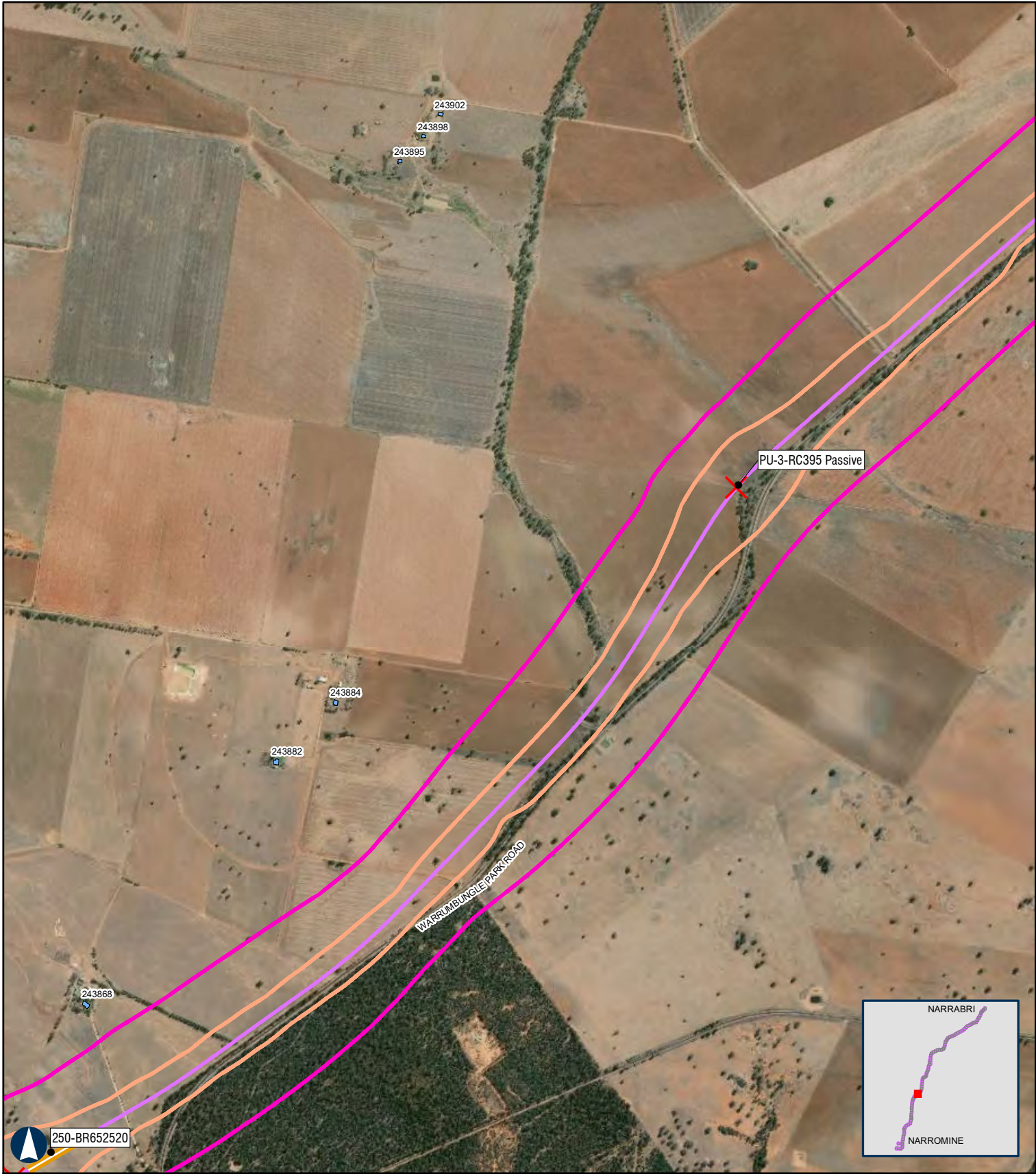
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**NARROMINE TO NARRABRI** Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 31 of 168

500 m

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## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 32 of 168

500 m

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Paper: A4

Scale: 1:20,000

Date: 31-Jul-2020

Author: JG

- X Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

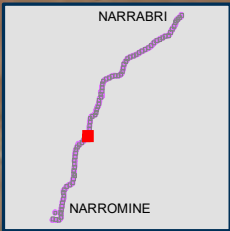
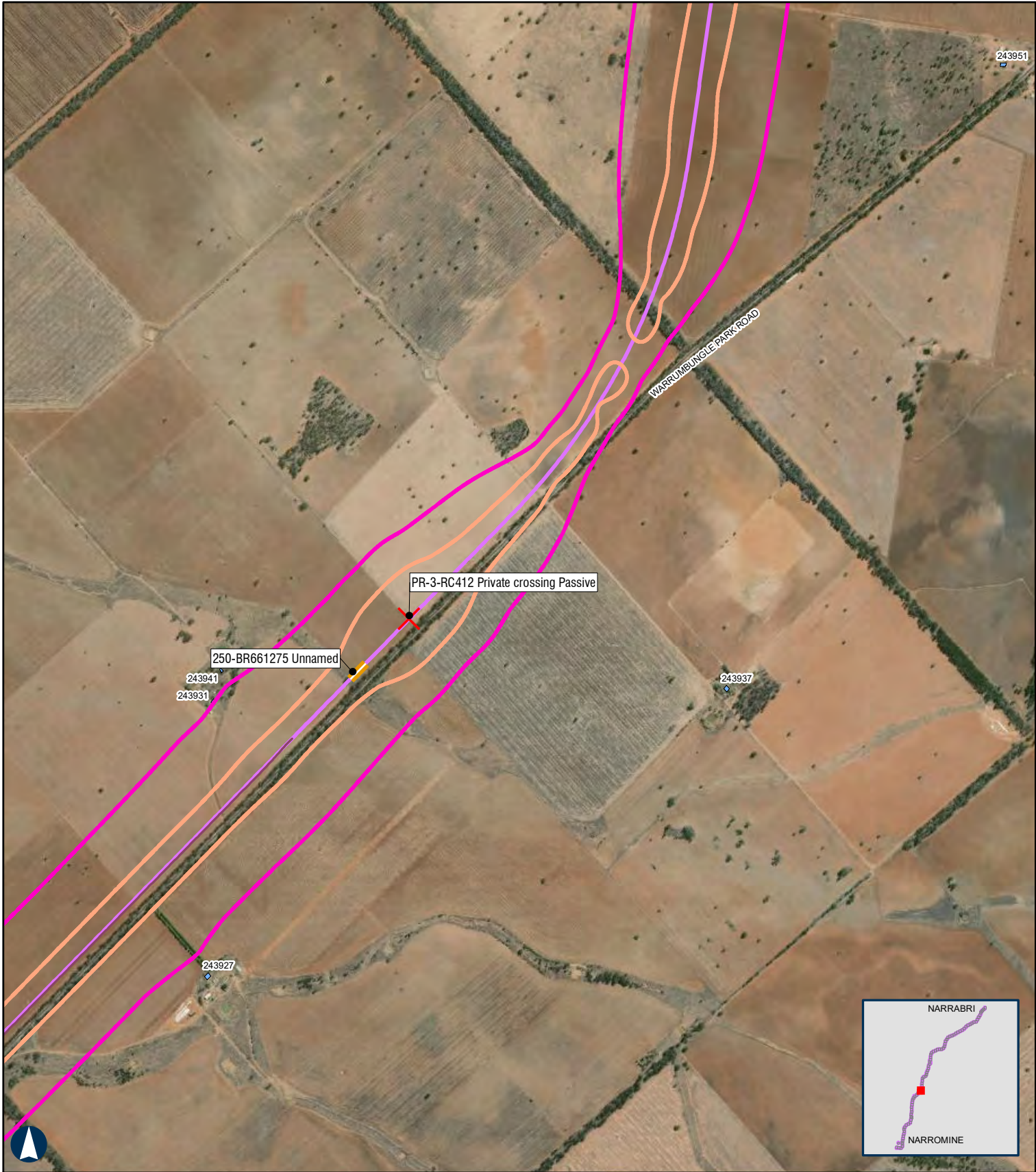
Noise contours are based on a set distance above the local terrain level of 2.4m.

- Daytime noise criteria LAeq15hr 60dBA new rail corridor
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- Daytime noise criteria LA max 80dBA new rail corridor
- Daytime noise criteria LA max 85dBA upgrading existing rail corridor

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**NARROMINE TO NARRABRI** Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 33 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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- ✗ Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

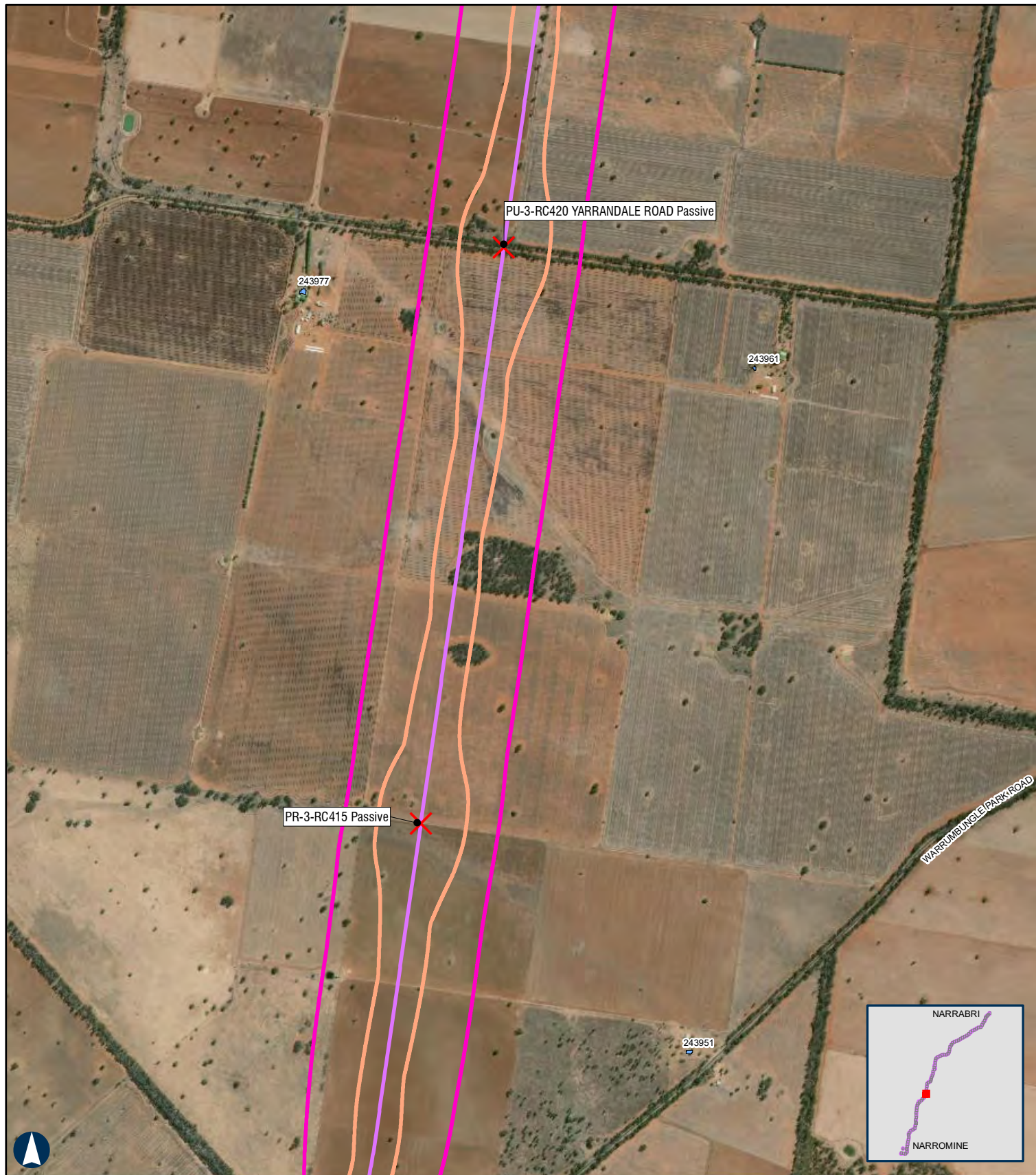
Noise contours are based on a set distance above the local terrain level of 2.4m.

- Daytime noise criteria LAeq15hr 60dBA new rail corridor
- Daytime noise criteria LAeq15hr 65dBA upgrading existing rail corridor
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## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 34 of 168

500 m

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Author: JG

Scale: 1:20,000

- Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

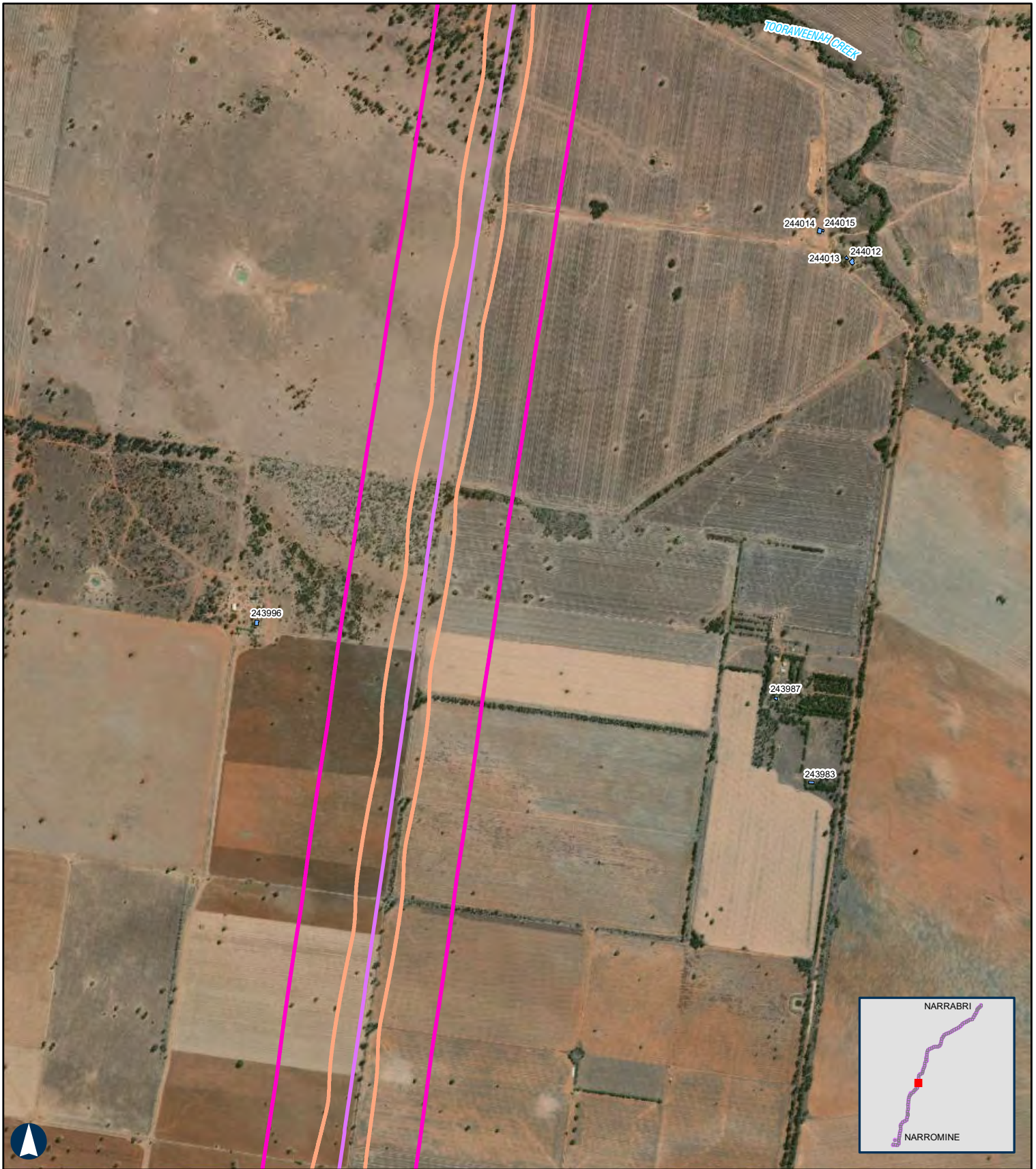
Noise contours are based on a set distance above the local terrain level of 2.4m.

- 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
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## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 35 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Date: 31-Jul-2020  
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- ✗ Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

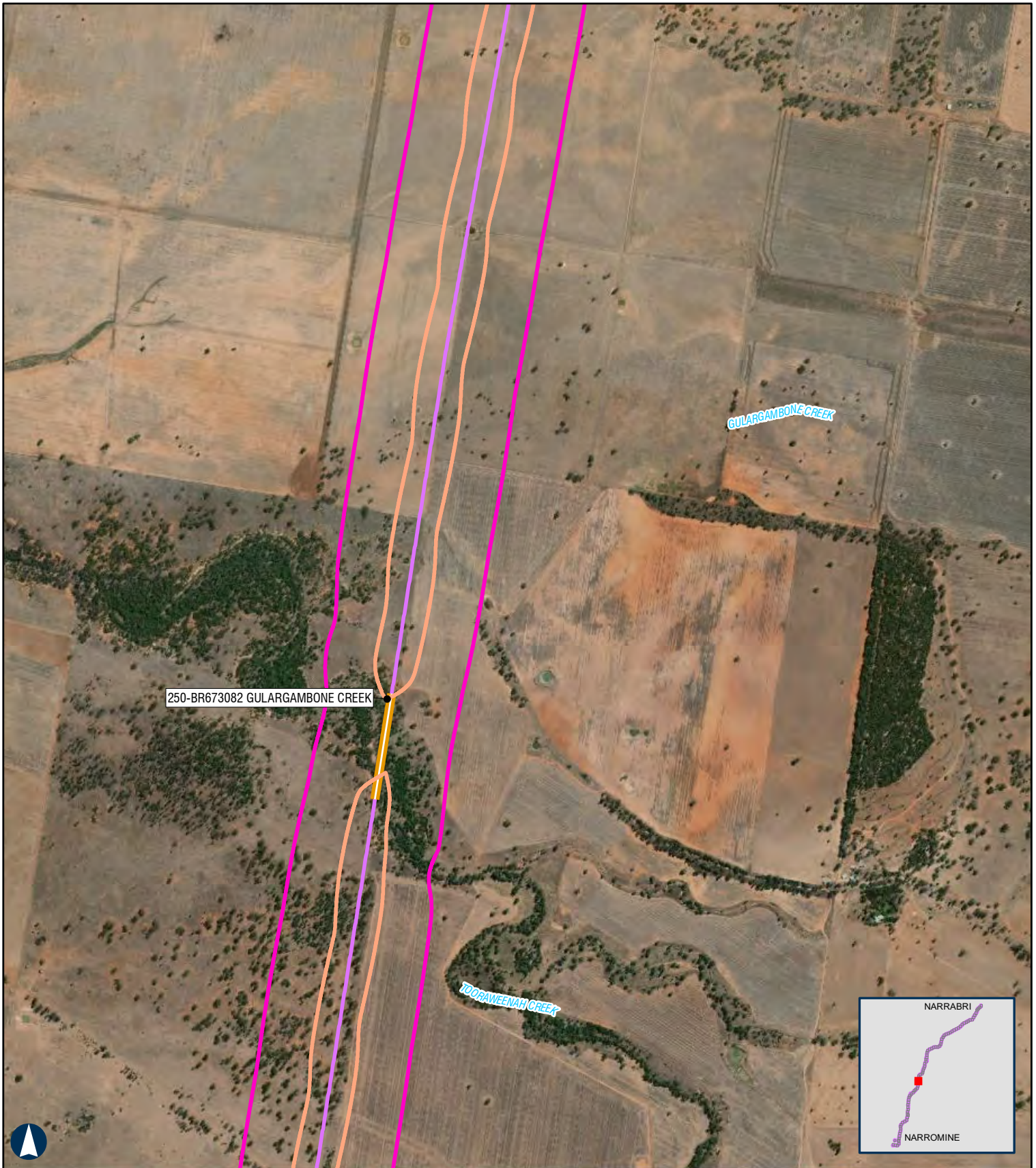
Noise contours are based on a set distance above the local terrain level of 2.4m.

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- Daytime noise criteria LA max 80dBA new rail corridor
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## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 36 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Date: 31-Jul-2020  
Author: JG

Scale: 1:20,000

- Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

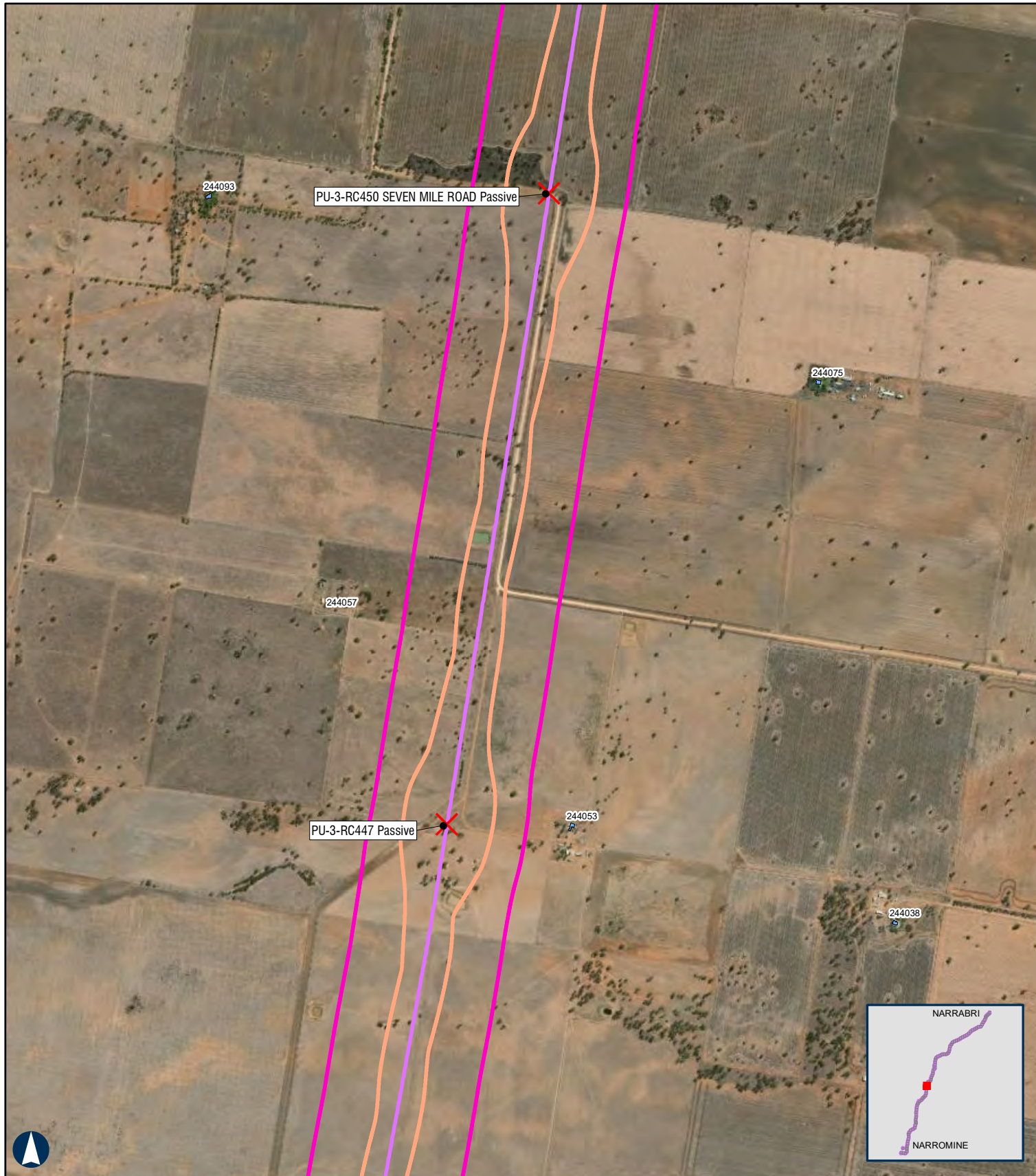
Noise contours are based on a set distance above the local terrain level of 2.4m.

- 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
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## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 37 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4

Scale: 1:20,000

Date: 31-Jul-2020

Author: JG

- Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

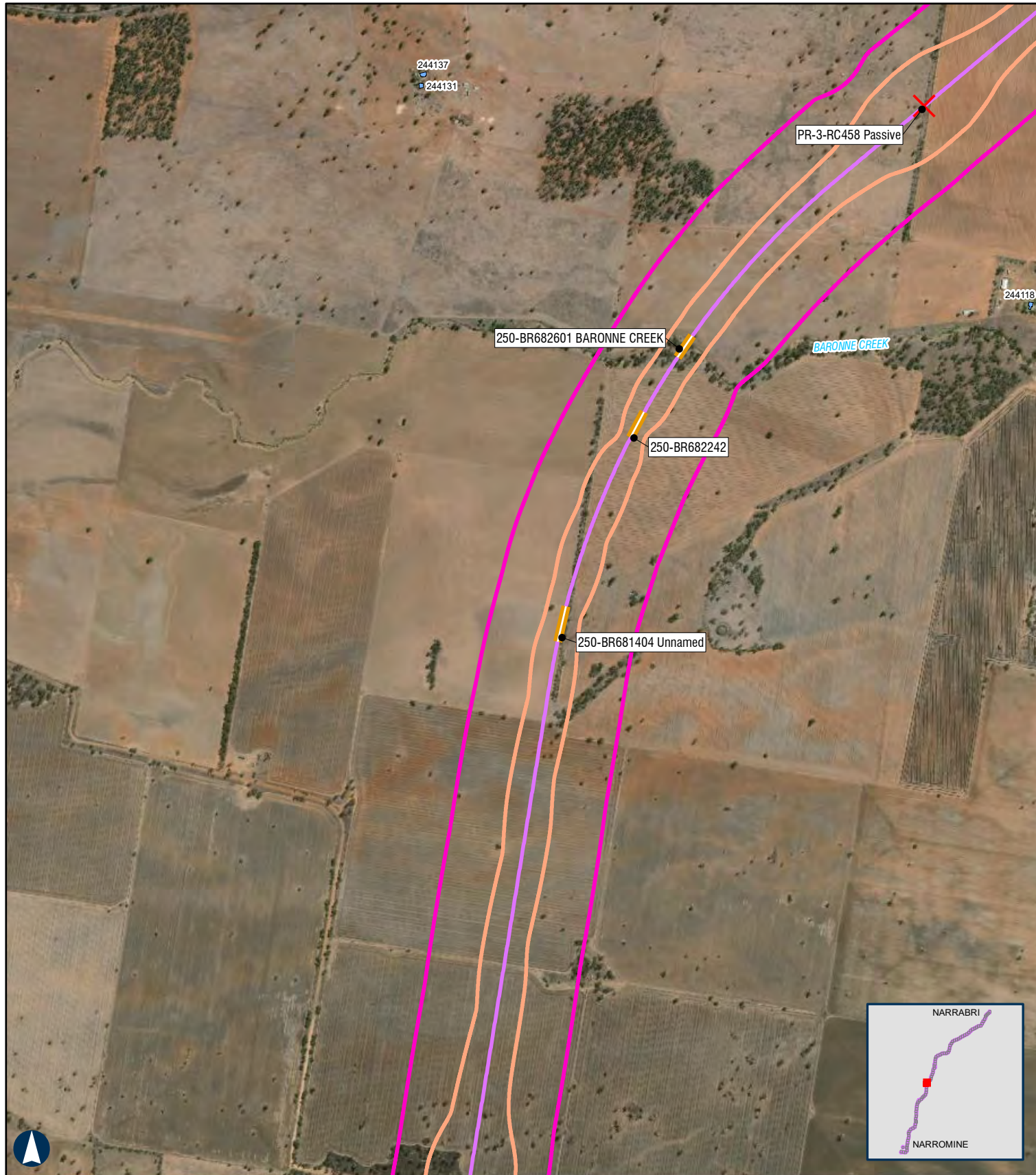
Noise contours are based on a set distance above the local terrain level of 2.4m.

- 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

**ARTC** **InlandRail**

The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation, in partnership with the private sector.





## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 38 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4  
Date: 31-Jul-2020  
Author: JG

Scale: 1:20,000

- Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

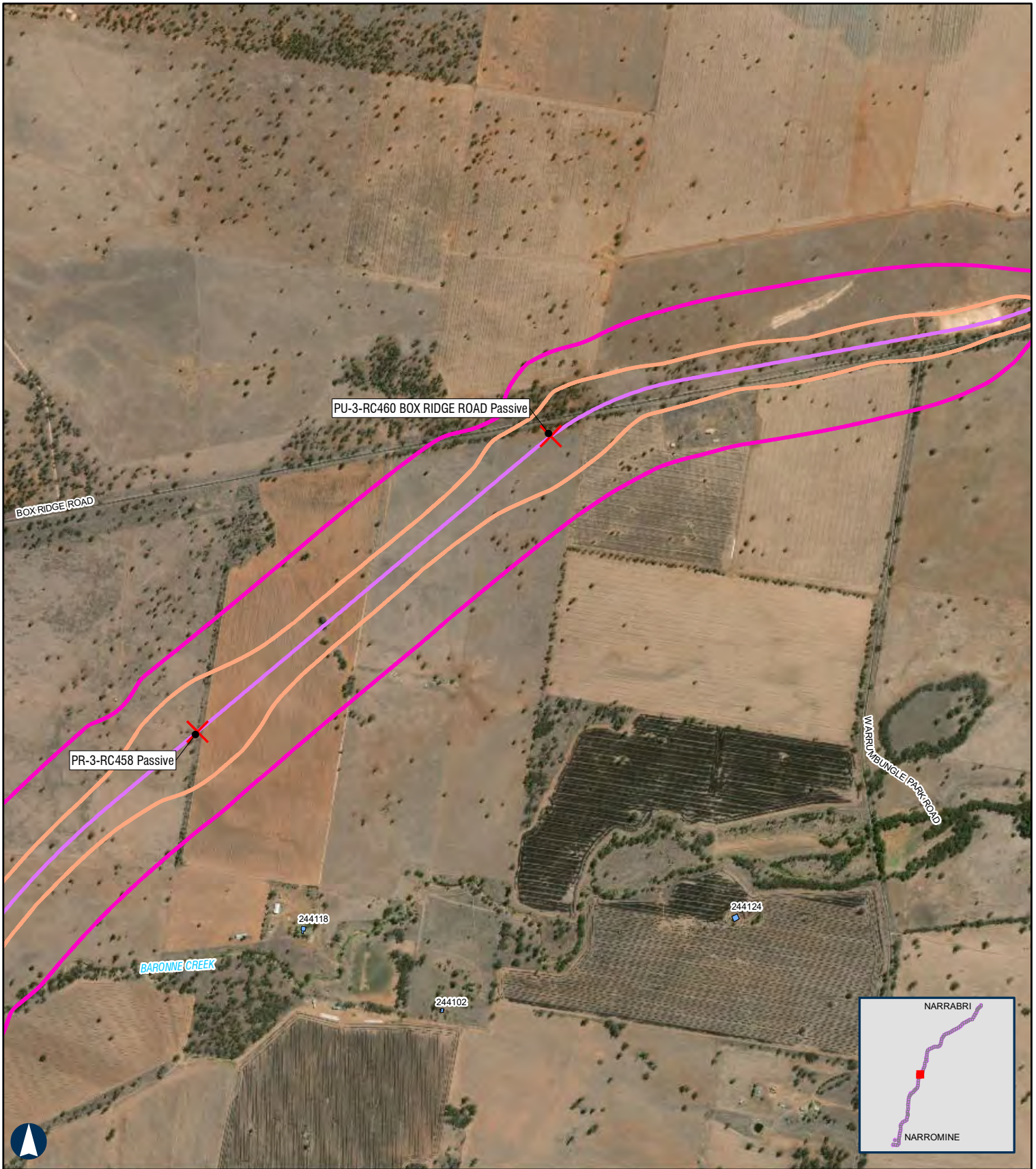
Noise contours are based on a set distance above the local terrain level of 2.4m.

- 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

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## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 39 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4

Scale: 1:20,000

Date: 31-Jul-2020

Author: JG

- ✗ Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- 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

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## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 40 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4

Scale: 1:20,000

Date: 31-Jul-2020

Author: JG

- Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

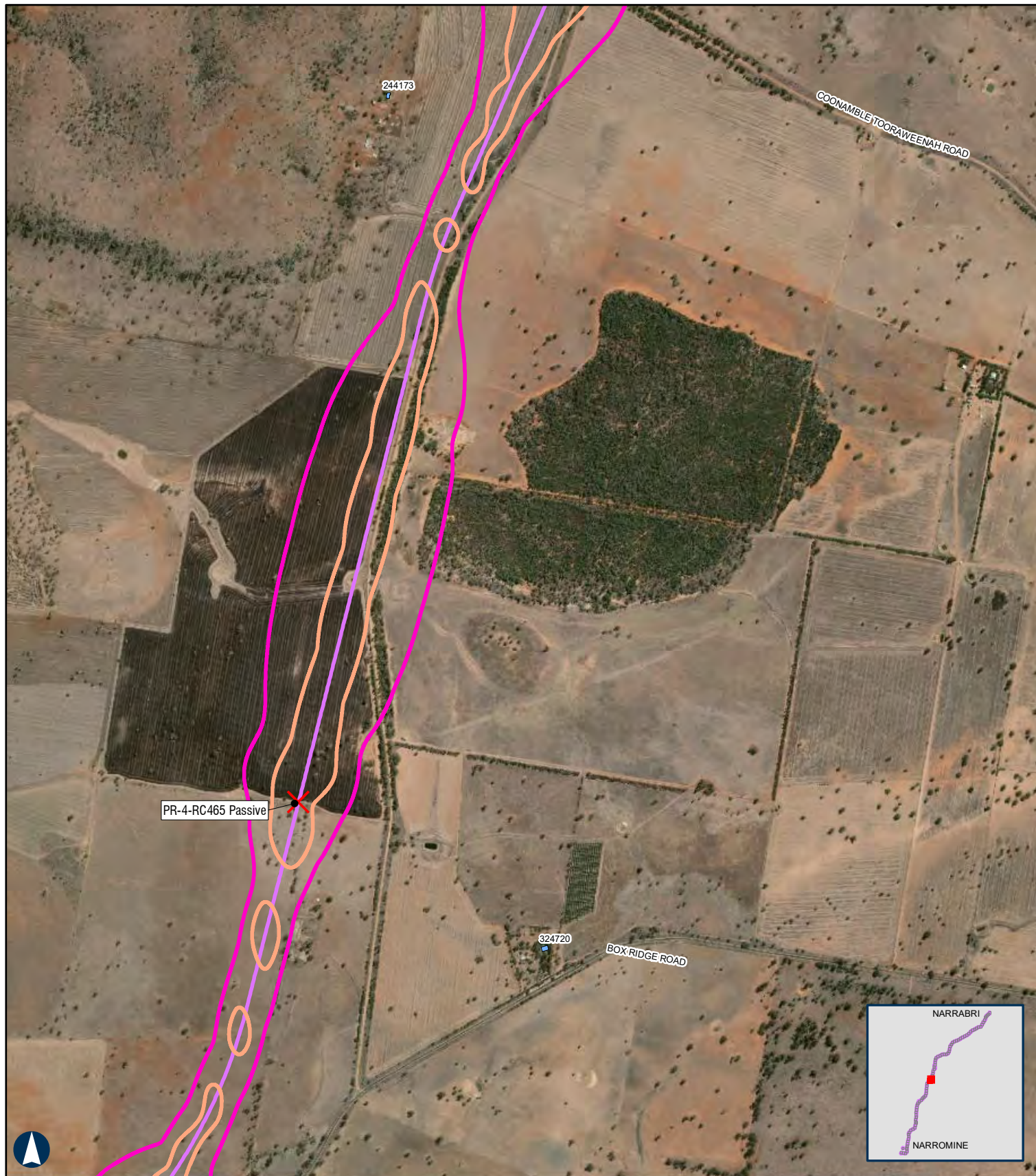
Noise contours are based on a set distance above the local terrain level of 2.4m.

- 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

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## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 41 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4  
Date: 31-Jul-2020  
Author: JG

Scale: 1:20,000

- X Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

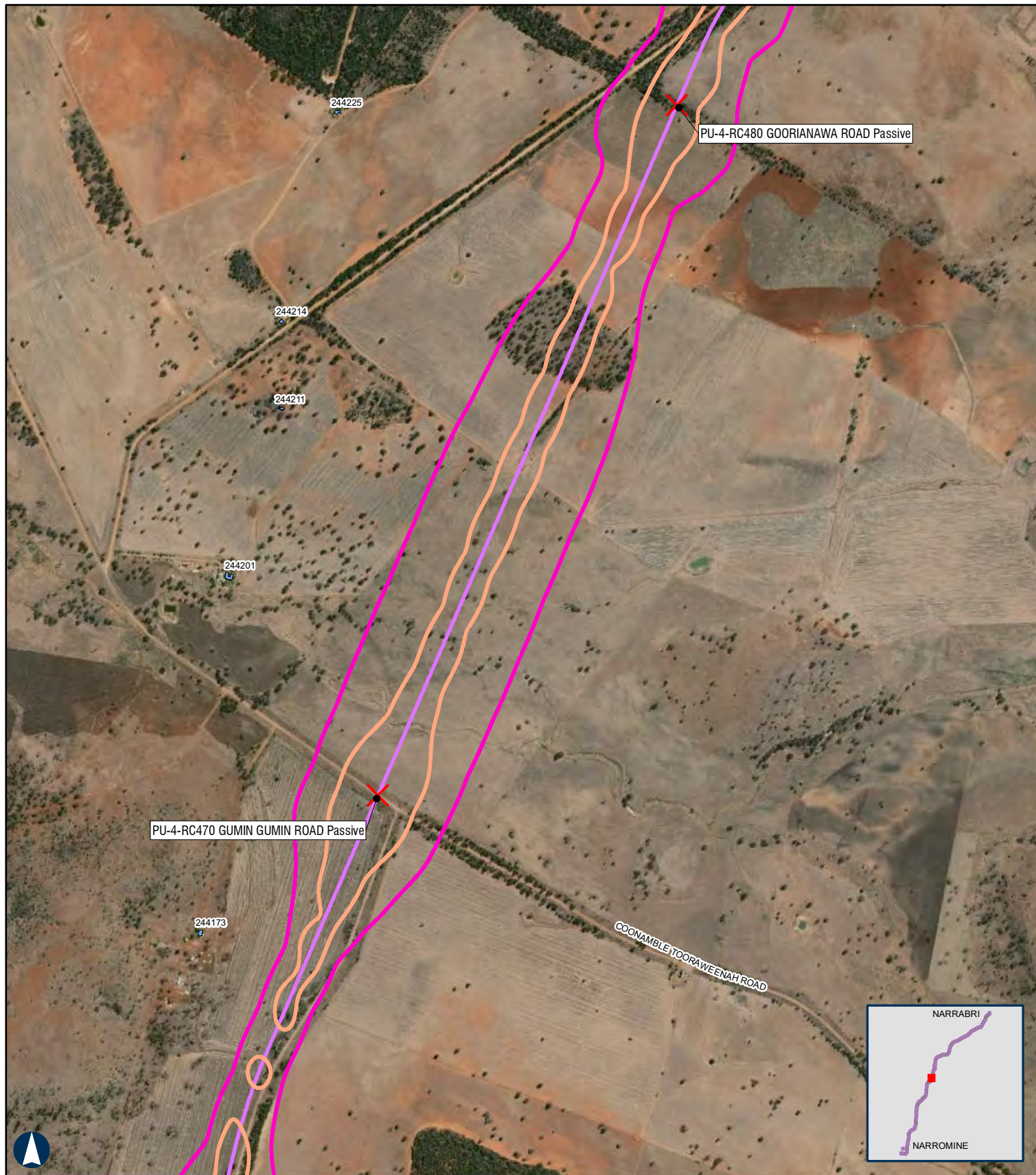
Noise contours are based on a set distance above the local terrain level of 2.4m.

- 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

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## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 42 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4  
Date: 31-Jul-2020  
Author: JG

Scale: 1:20,000

- X Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

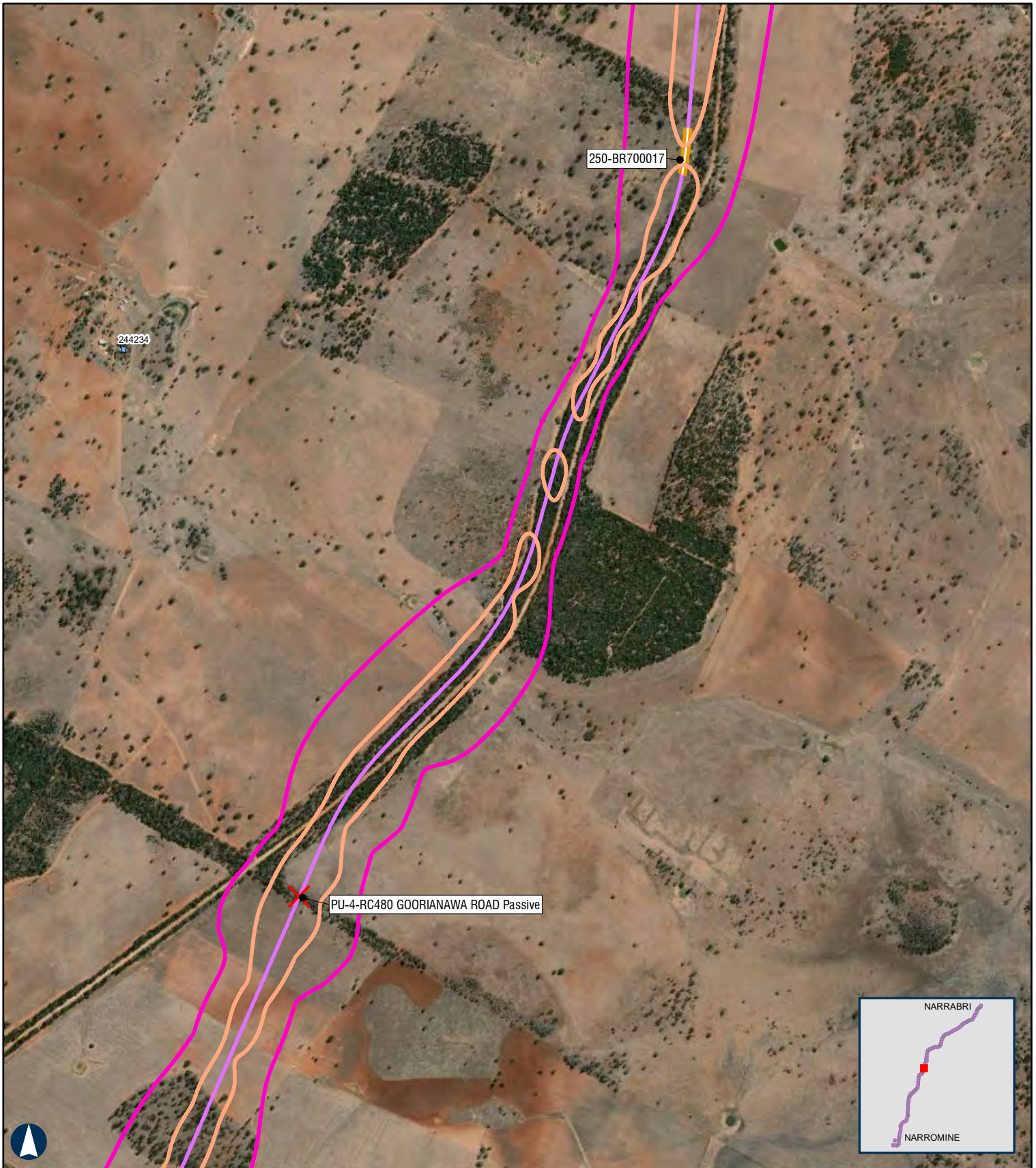
Noise contours are based on a set distance above the local terrain level of 2.4m.

- 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

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## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 43 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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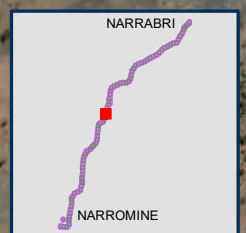
Paper: A4  
Date: 31-Jul-2020  
Author: JG

Scale: 1:20,000

- ✕ Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

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

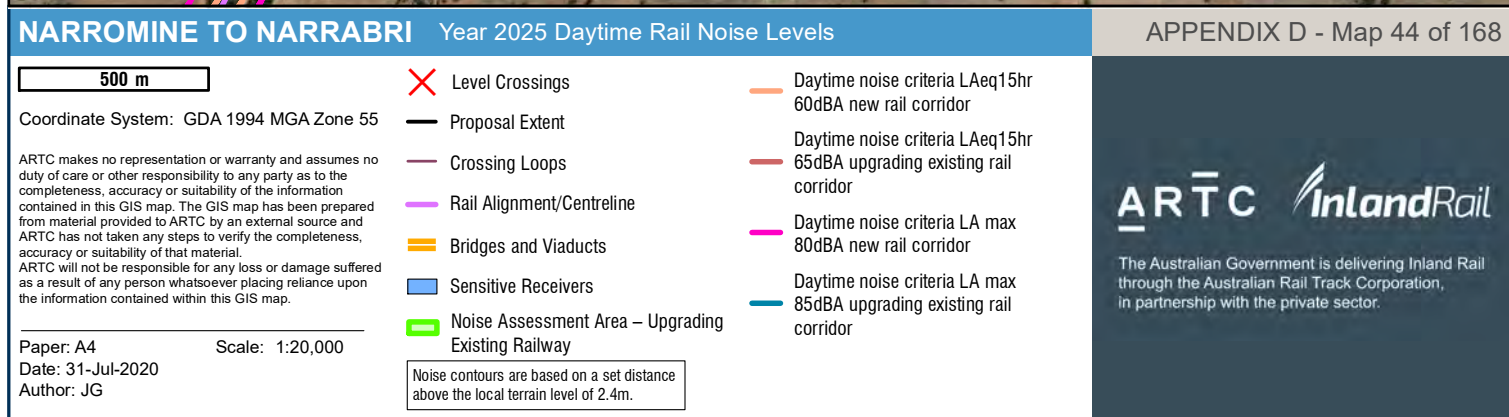
- Daytime noise criteria LAeq15hr 60dBA new rail corridor
- Daytime noise criteria LAeq15hr 65dBA upgrading existing rail corridor
- Daytime noise criteria LA max 80dBA new rail corridor
- Daytime noise criteria LA max 85dBA upgrading existing rail corridor



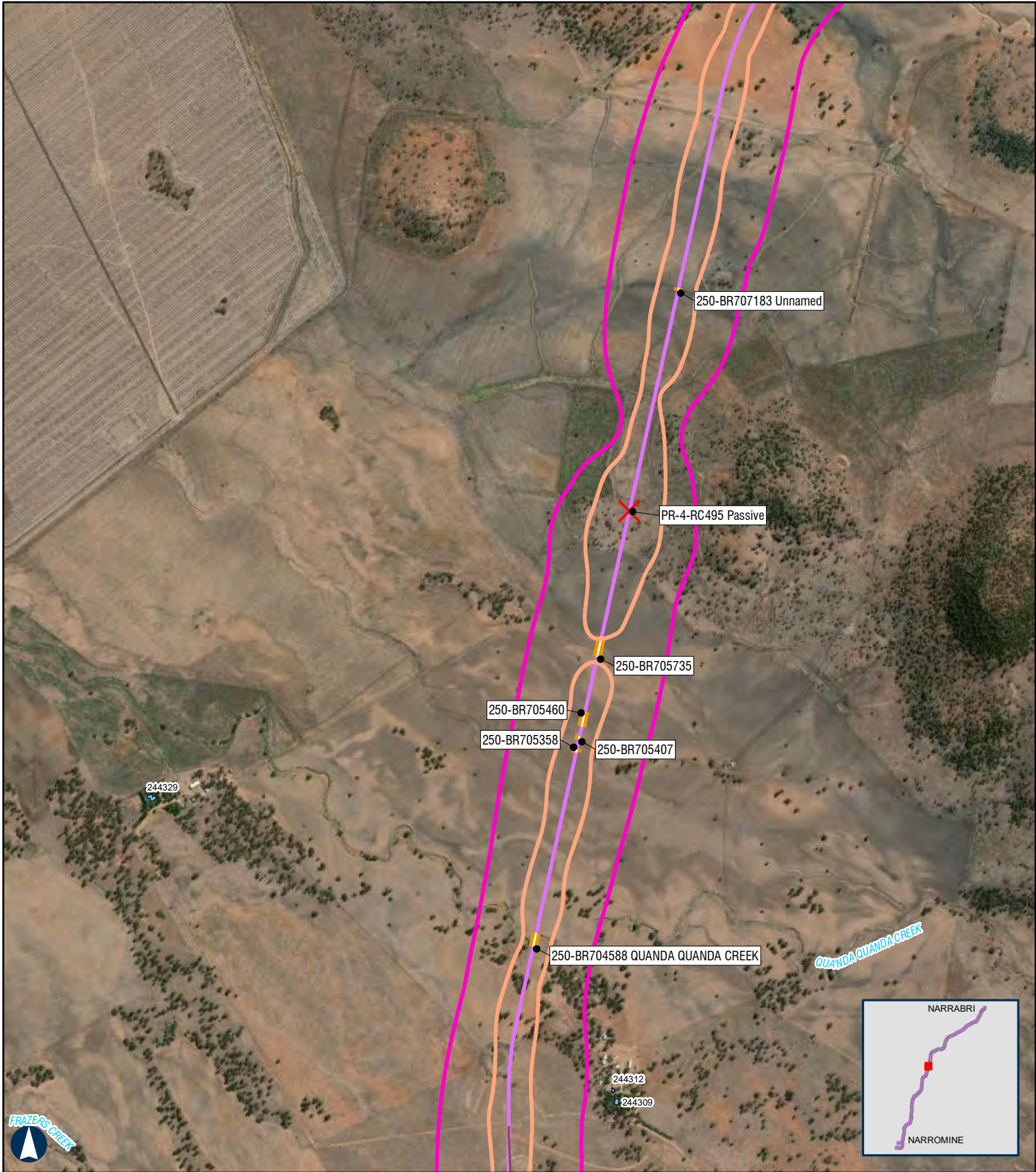
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## NARROMINE TO NARRABRI

## Year 2025 Daytime Rail Noise Levels

## APPENDIX D - Map 45 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4

Scale: 1:20,000

Date: 31-Jul-2020

Author: JG

- X Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

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

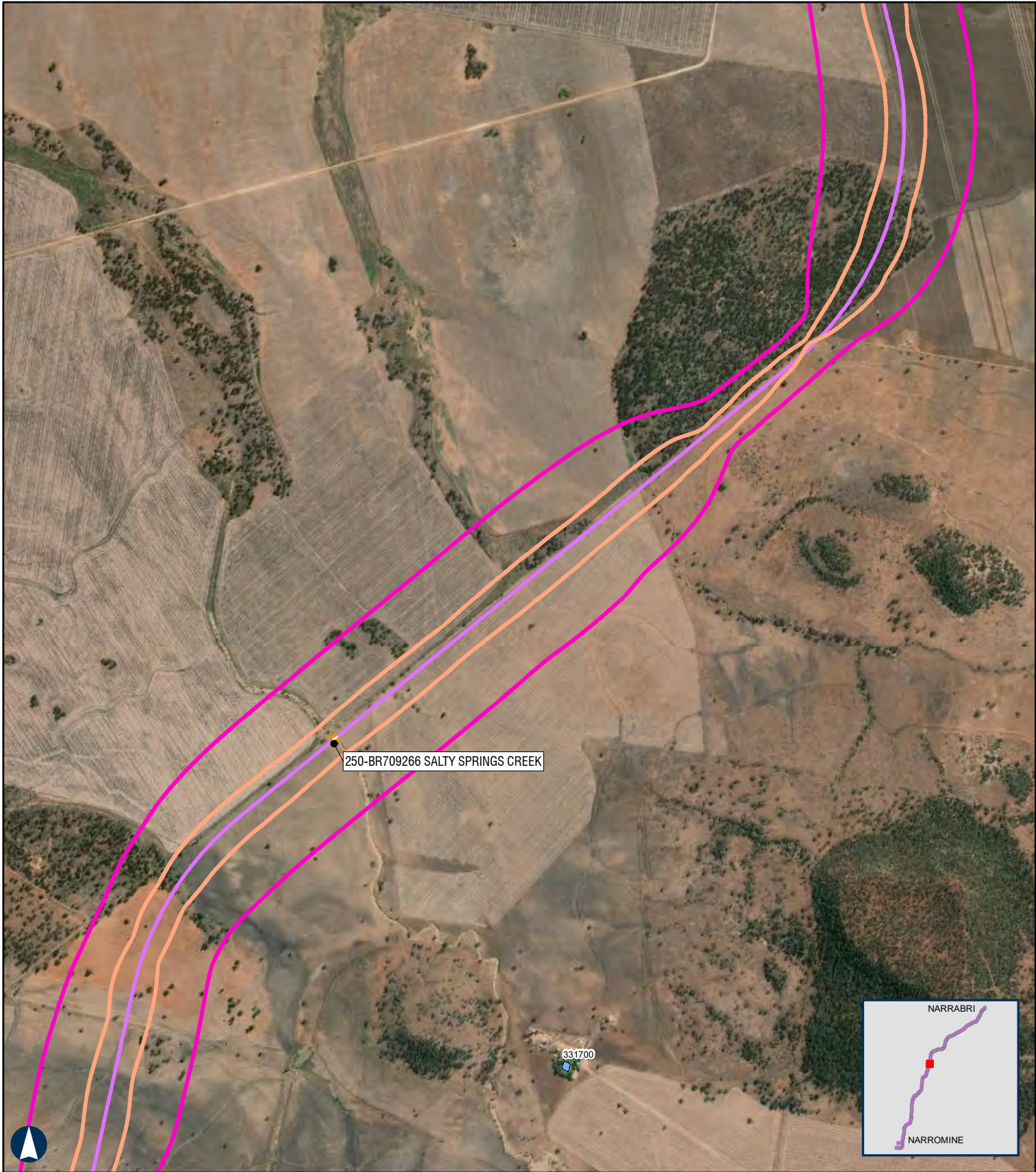
- Daytime noise criteria LAeq15hr 60dBA new rail corridor
- Daytime noise criteria LAeq15hr 65dBA upgrading existing rail corridor
- Daytime noise criteria LA max 80dBA new rail corridor
- Daytime noise criteria LA max 85dBA upgrading existing rail corridor



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## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 46 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4  
Date: 31-Jul-2020  
Author: JG

Scale: 1:20,000

- Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

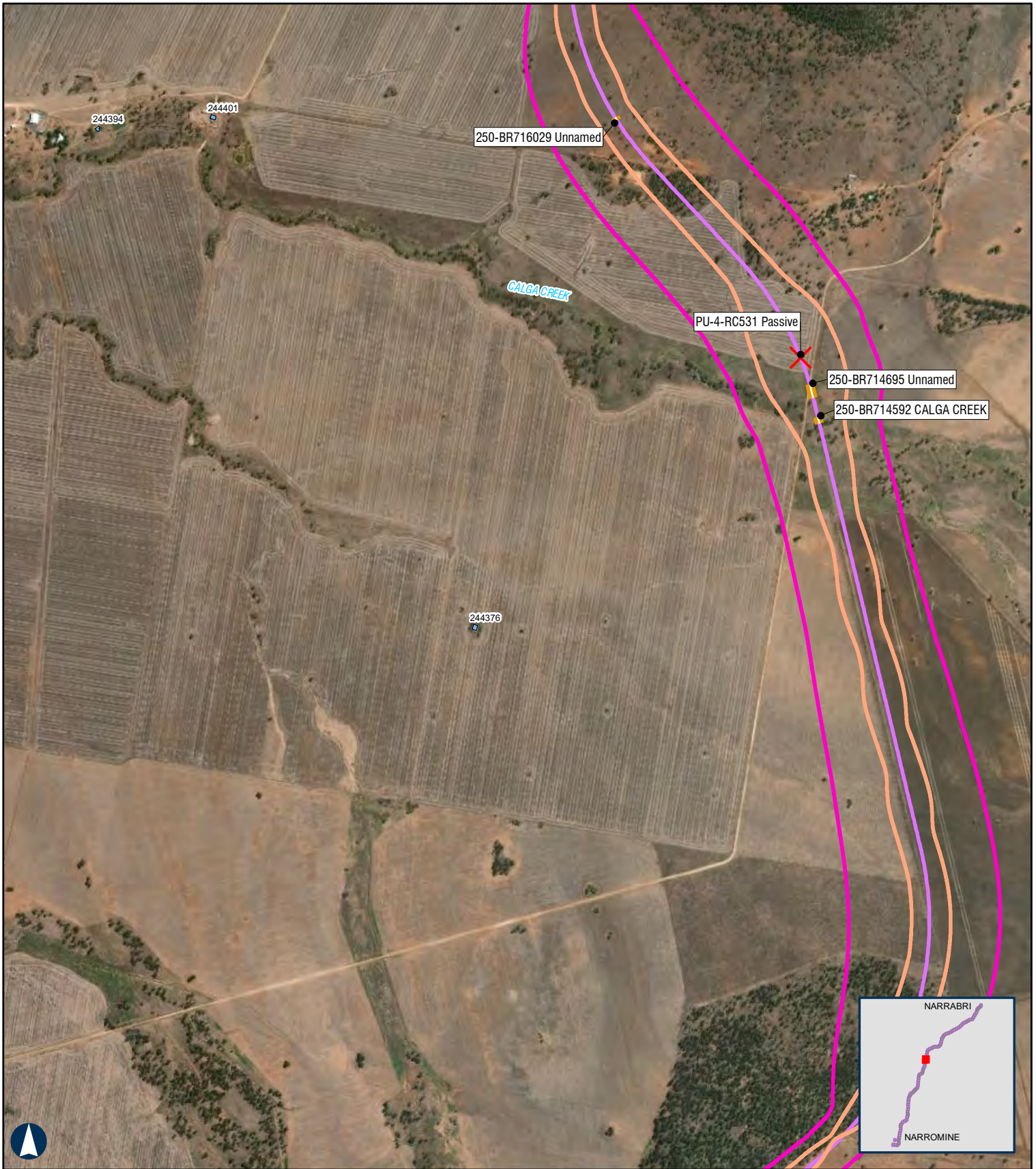
Noise contours are based on a set distance above the local terrain level of 2.4m.

- 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

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## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 47 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4  
Date: 31-Jul-2020  
Author: JG  
Scale: 1:20,000

- Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

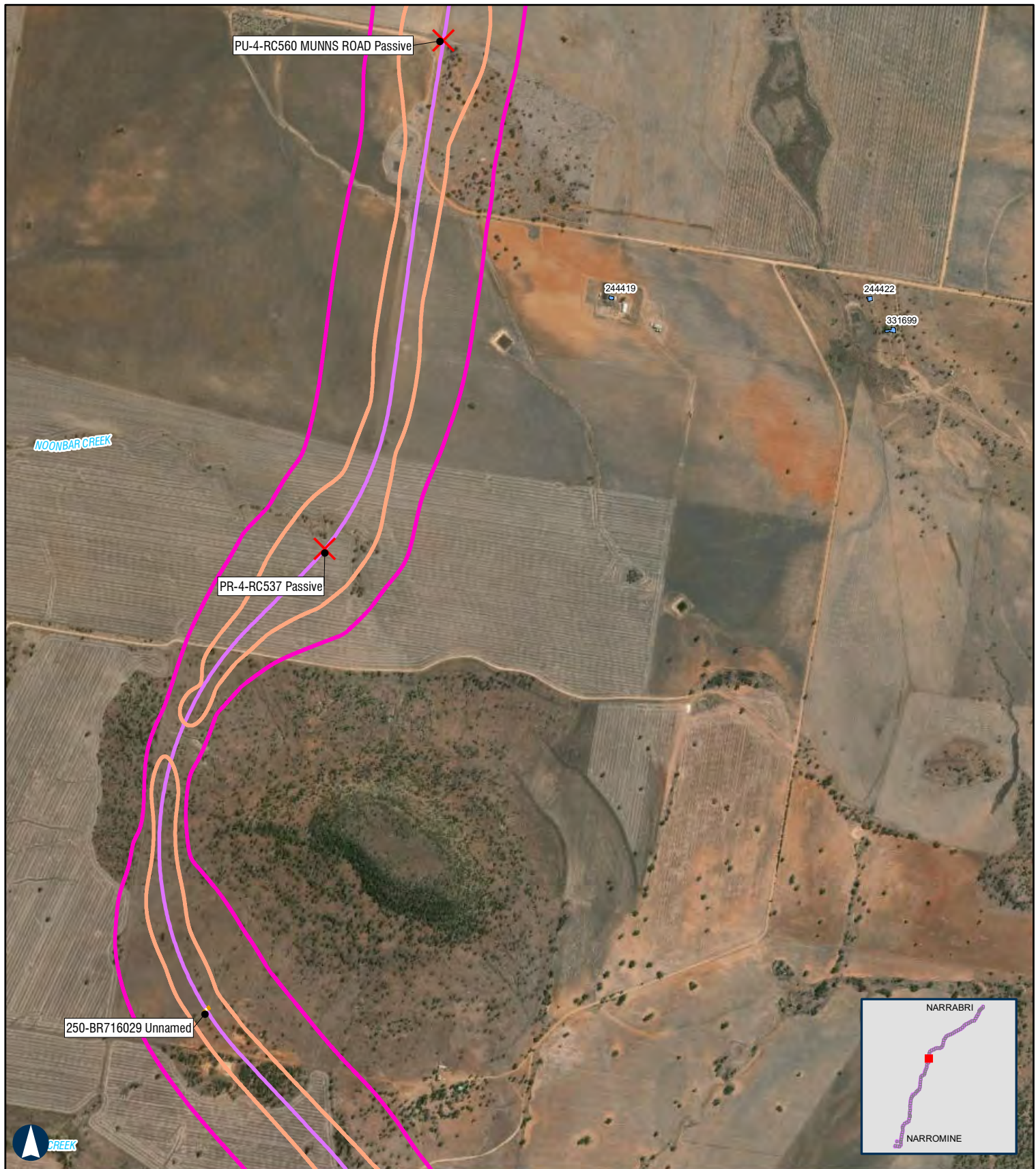
Noise contours are based on a set distance above the local terrain level of 2.4m.

- 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

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## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 48 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4  
Date: 31-Jul-2020  
Author: JG

Scale: 1:20,000

- ✕ Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

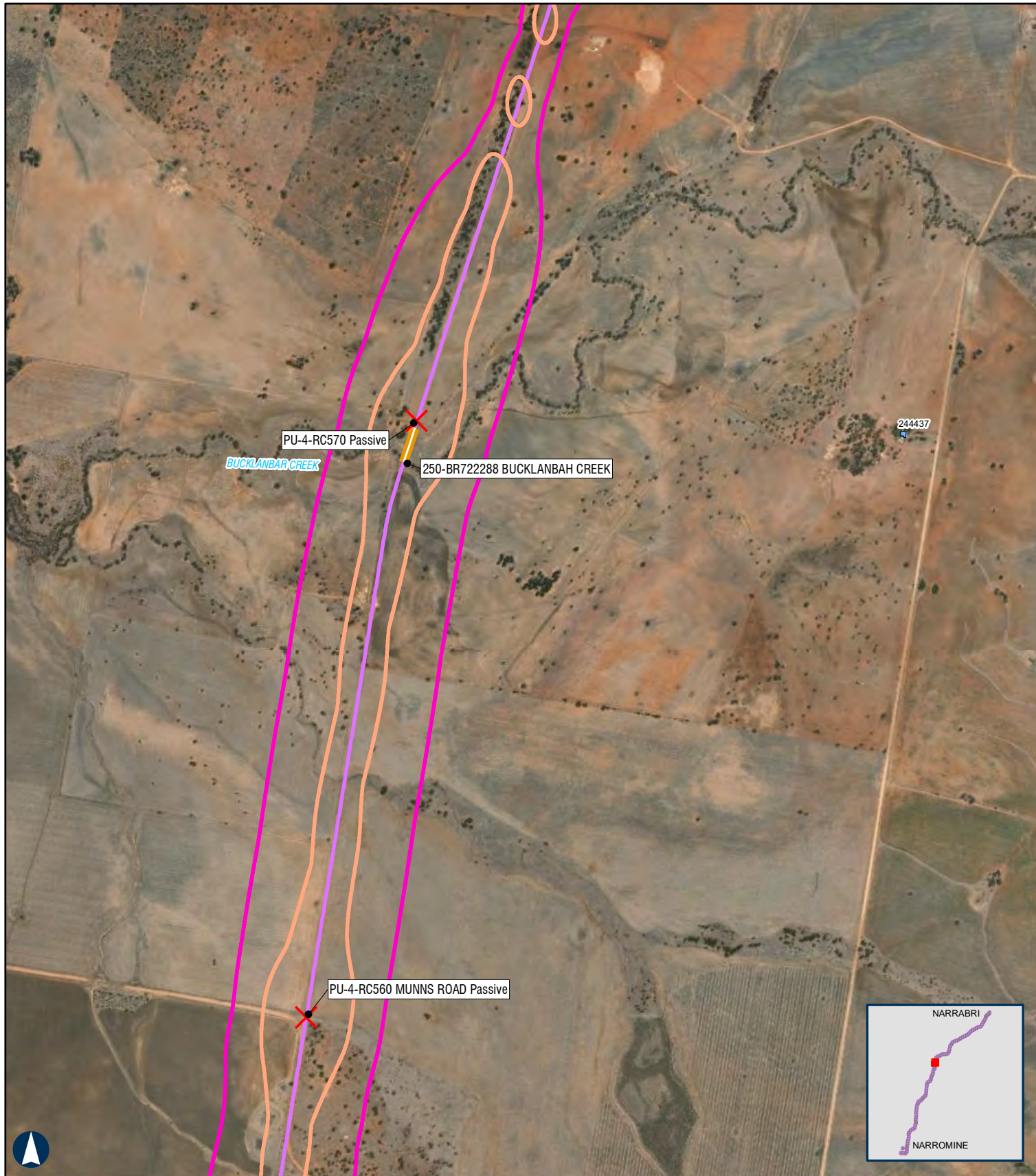
Noise contours are based on a set distance above the local terrain level of 2.4m.

- 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

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## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 49 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4

Scale: 1:20,000

Date: 31-Jul-2020

Author: JG

- ✕ Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

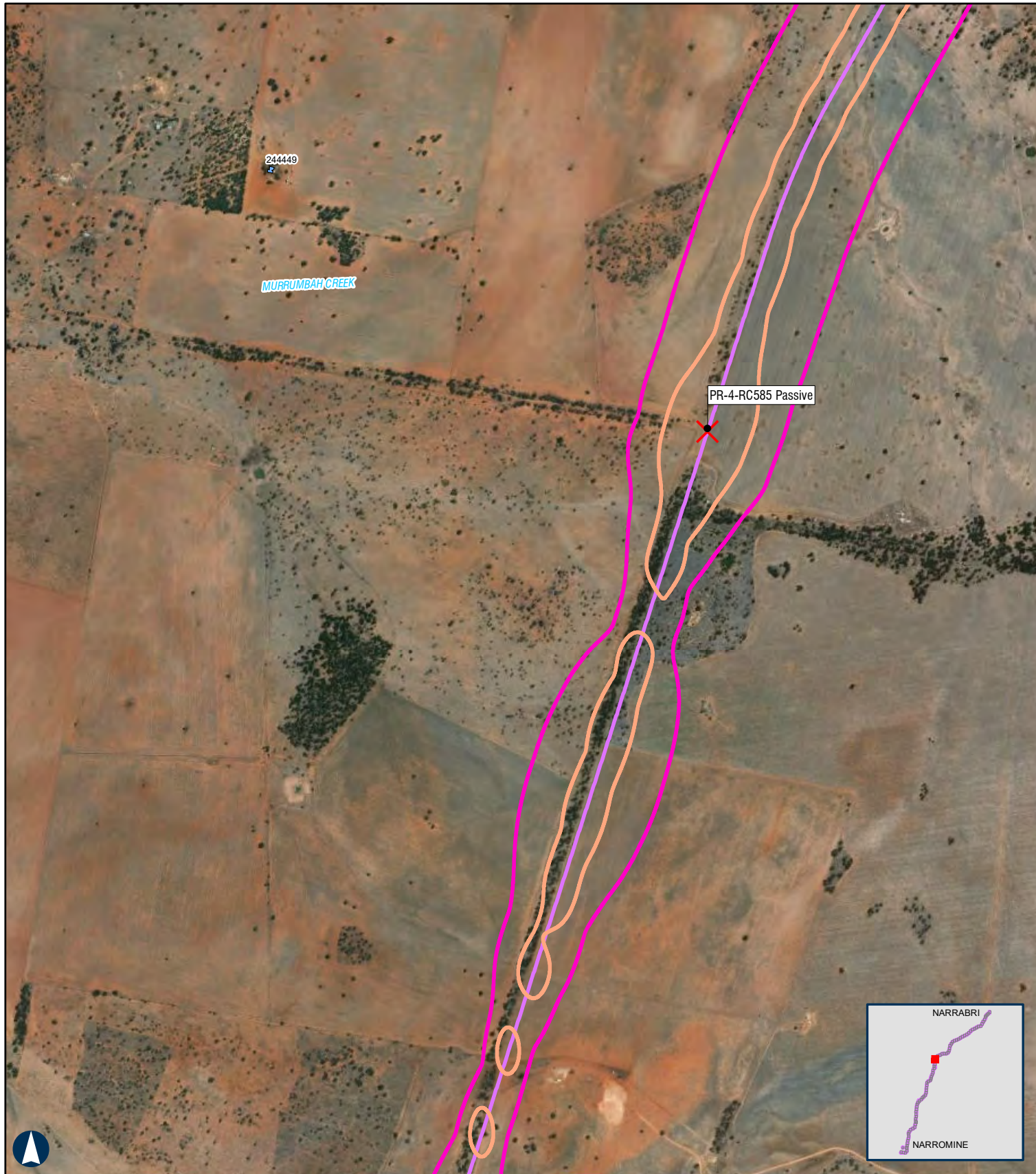
Noise contours are based on a set distance above the local terrain level of 2.4m.

- 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

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## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 50 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4

Scale: 1:20,000

Date: 31-Jul-2020

Author: JG

- Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- 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

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## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 51 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4  
Date: 31-Jul-2020  
Author: JG

Scale: 1:20,000

- X Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

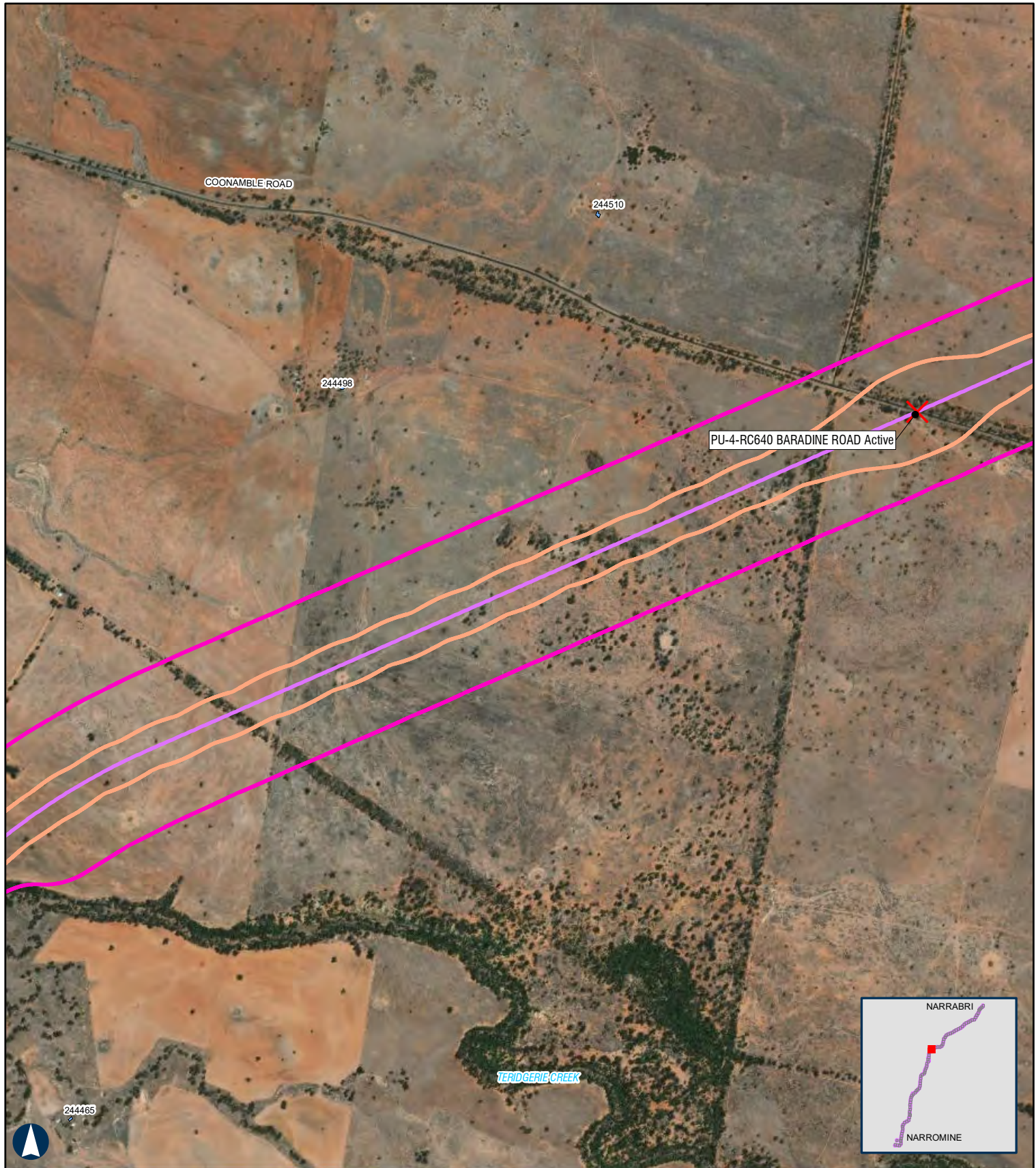
Noise contours are based on a set distance above the local terrain level of 2.4m.

- 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

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## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 52 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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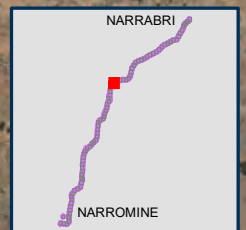
Paper: A4  
Date: 31-Jul-2020  
Author: JG

Scale: 1:20,000

- Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

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

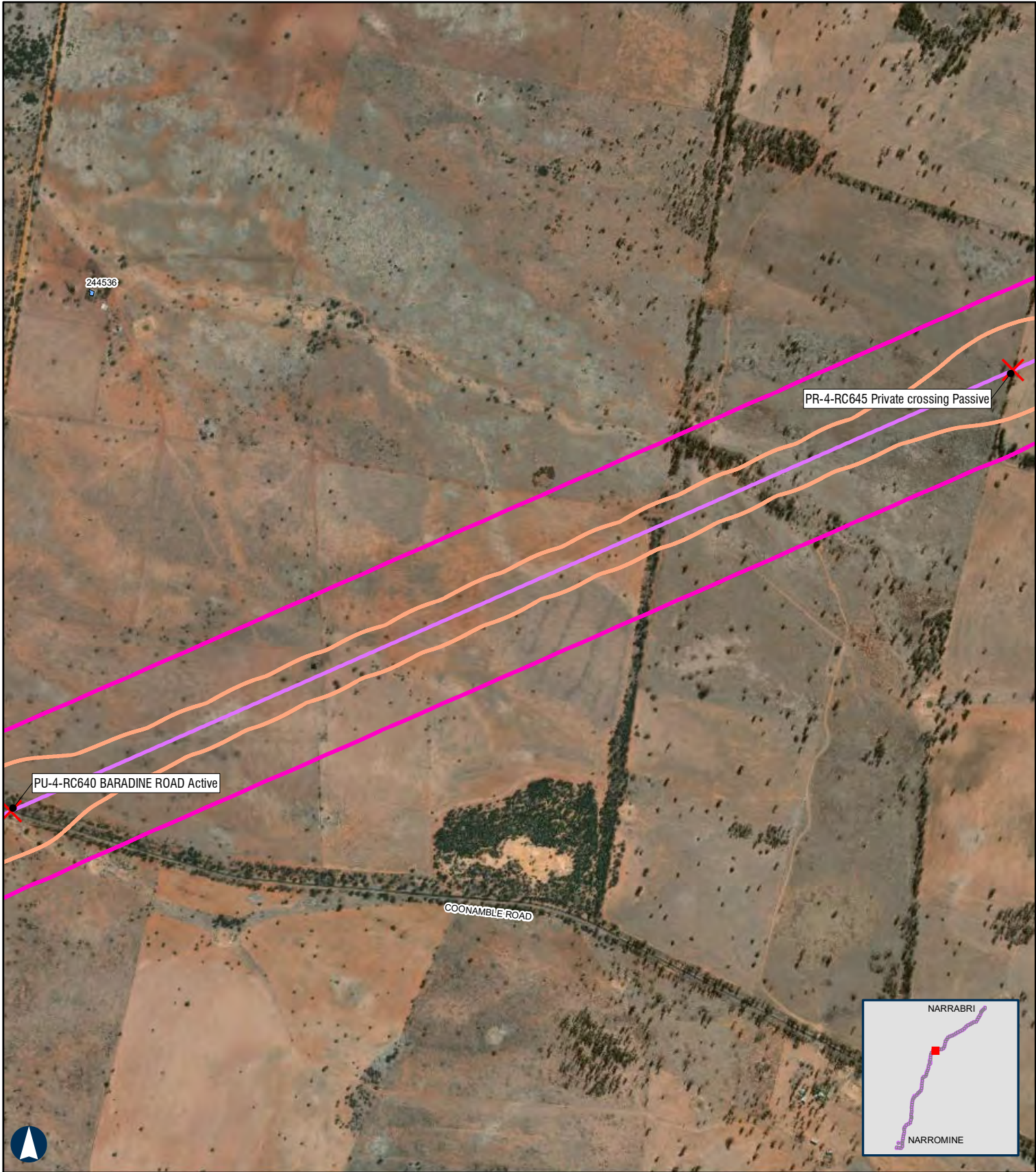
- Daytime noise criteria LAeq15hr 60dBA new rail corridor
- Daytime noise criteria LAeq15hr 65dBA upgrading existing rail corridor
- Daytime noise criteria LA max 80dBA new rail corridor
- Daytime noise criteria LA max 85dBA upgrading existing rail corridor



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## NARROMINE TO NARRABRI

Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 53 of 168

**500 m**

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4  
Date: 31-Jul-2020  
Author: JG

Scale: 1:20,000

**Legend**

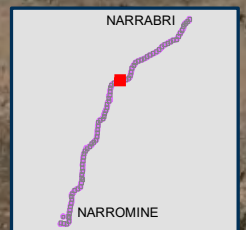
- Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway
- Daytime noise criteria LAeq15hr 60dBA new rail corridor
- Daytime noise criteria LAeq15hr 65dBA upgrading existing rail corridor
- Daytime noise criteria LA max 80dBA new rail corridor
- Daytime noise criteria LA max 85dBA upgrading existing rail corridor

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

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## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 54 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4  
Date: 31-Jul-2020  
Author: JG

Scale: 1:20,000

- X Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

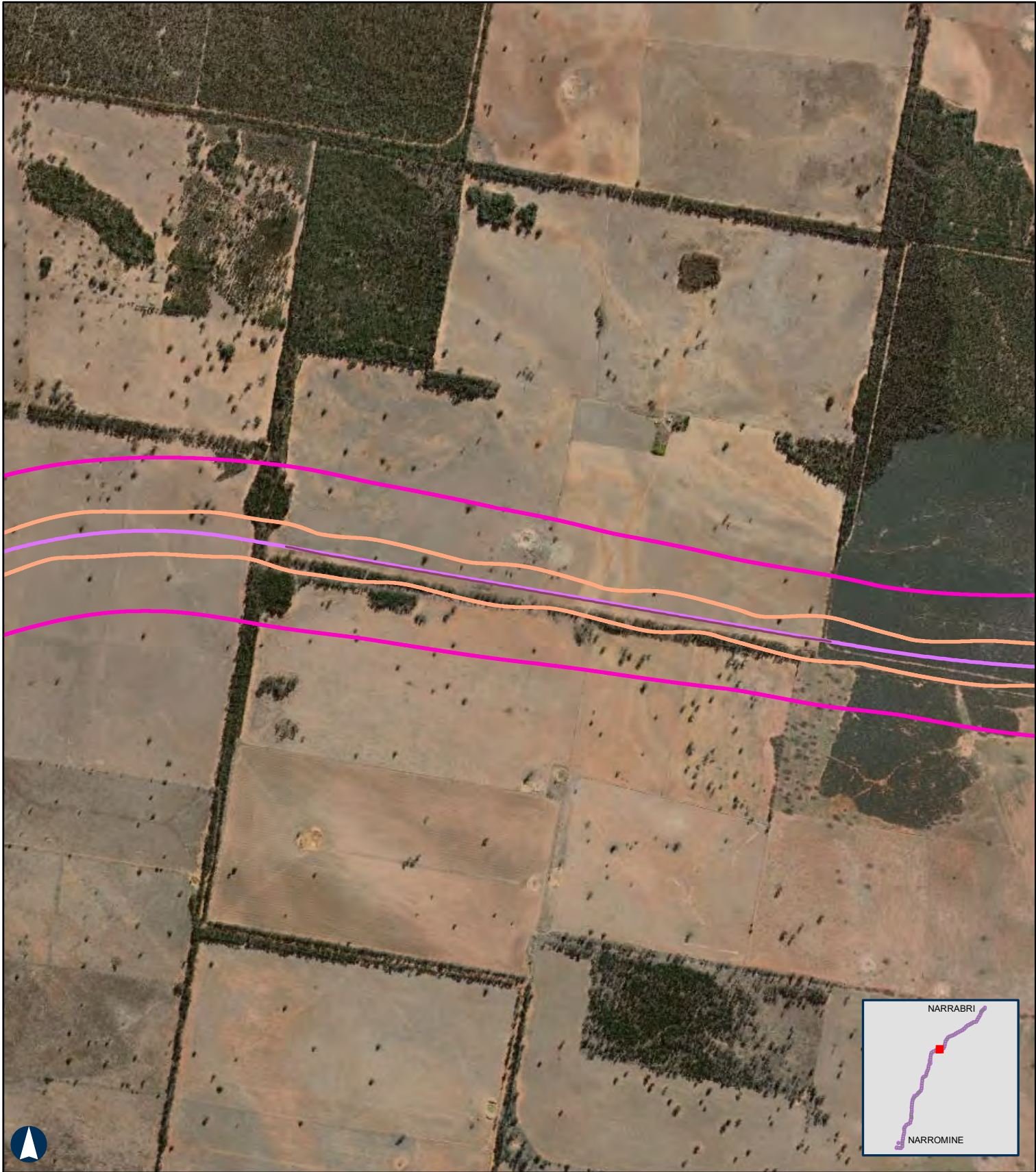
Noise contours are based on a set distance above the local terrain level of 2.4m.

- 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

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## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 55 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4  
Date: 31-Jul-2020  
Author: JG

Scale: 1:20,000

- Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- 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

**ARTC** **InlandRail**

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## NARROMINE TO NARRABRI

Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 56 of 168

**500 m**

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4  
Date: 31-Jul-2020  
Author: JG

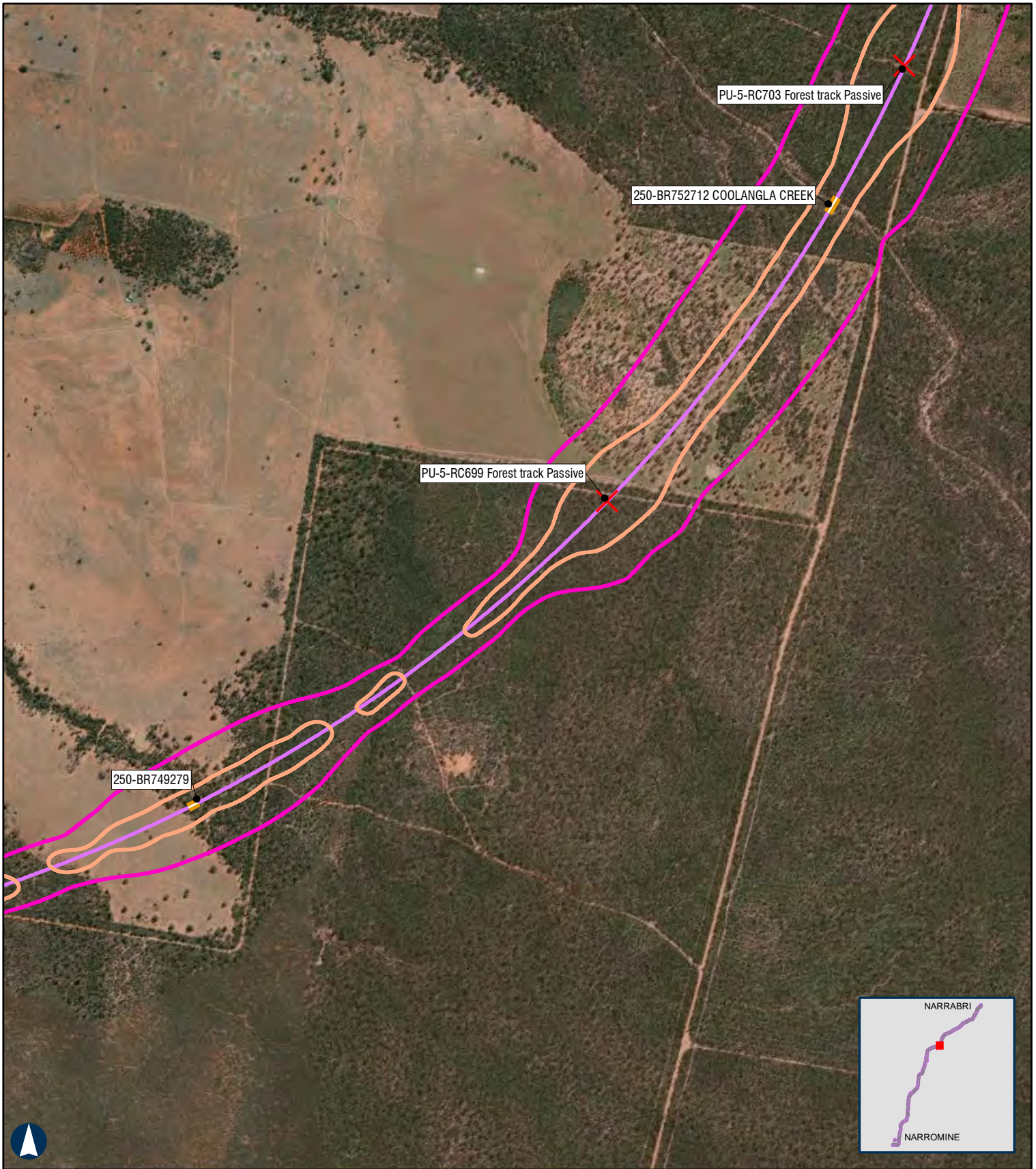
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li><span style="color: red; font-size: 2em;">✕</span> Level Crossings</li> <li><span style="color: black;">—</span> Proposal Extent</li> <li><span style="color: brown;">—</span> Crossing Loops</li> <li><span style="color: purple;">—</span> Rail Alignment/Centreline</li> <li><span style="color: orange;">—</span> Bridges and Viaducts</li> <li><span style="color: blue;">■</span> Sensitive Receivers</li> <li><span style="color: green;">■</span> Noise Assessment Area – Upgrading Existing Railway</li> </ul> | <ul style="list-style-type: none"> <li><span style="color: orange;">—</span> Daytime noise criteria LAeq15hr 60dBA new rail corridor</li> <li><span style="color: brown;">—</span> Daytime noise criteria LAeq15hr 65dBA upgrading existing rail corridor</li> <li><span style="color: magenta;">—</span> Daytime noise criteria LA max 80dBA new rail corridor</li> <li><span style="color: blue;">—</span> Daytime noise criteria LA max 85dBA upgrading existing rail corridor</li> </ul> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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

ARTC *InlandRail*

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## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 57 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4  
Date: 31-Jul-2020  
Author: JG

Scale: 1:20,000

- X Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

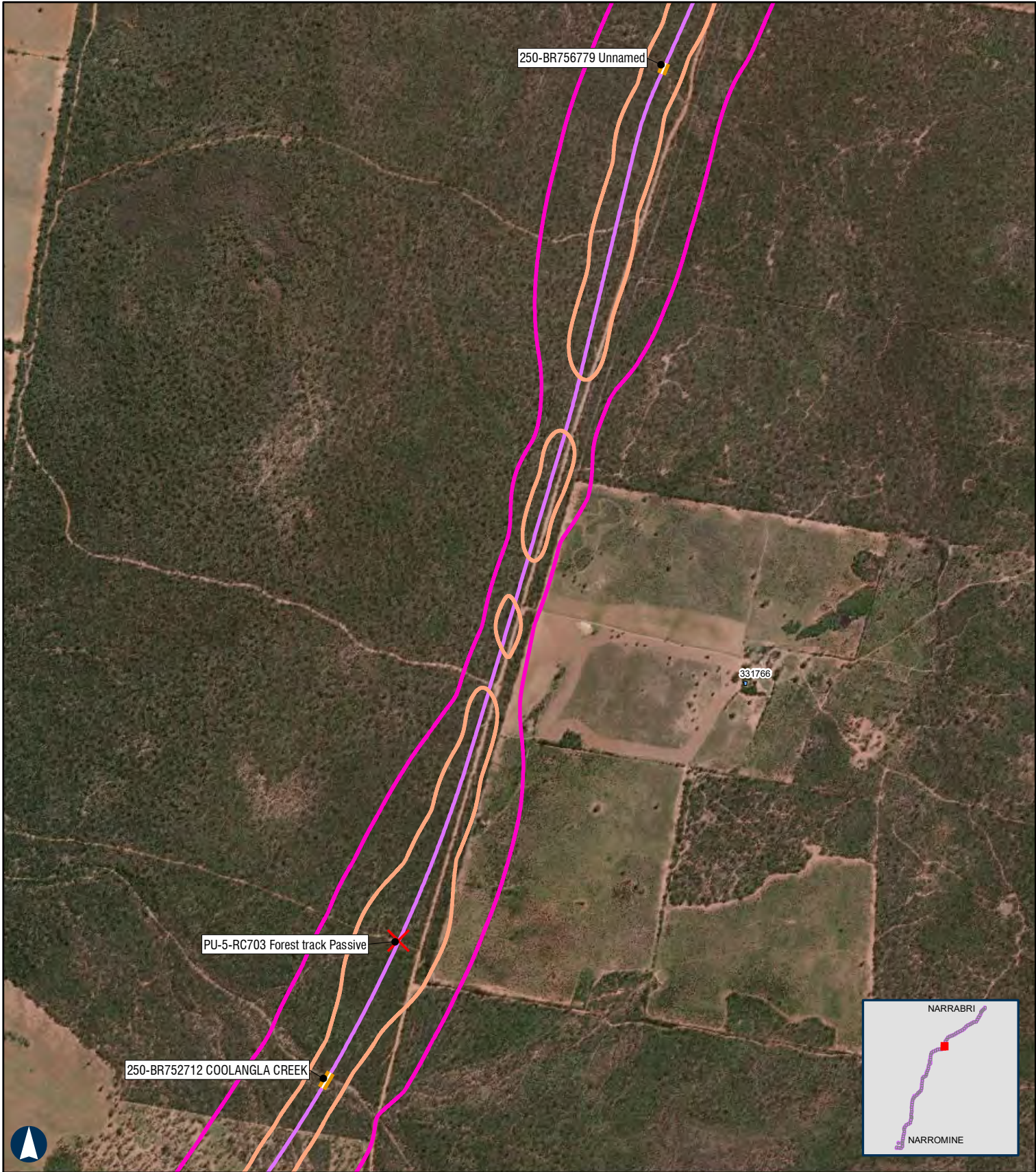
Noise contours are based on a set distance above the local terrain level of 2.4m.

- 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
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**NARROMINE TO NARRABRI** Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 58 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Scale: 1:20,000

- ✗ Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

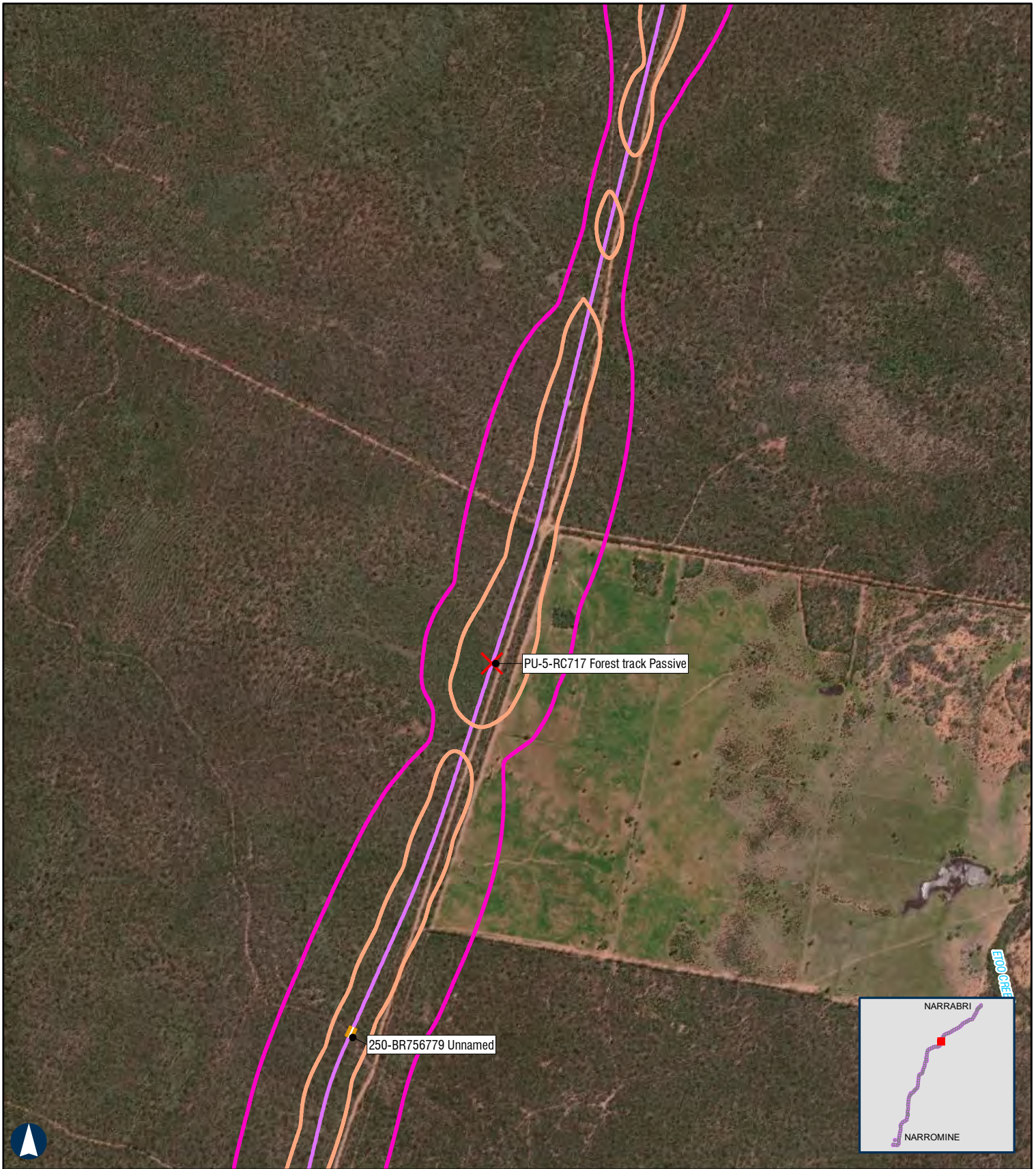
Noise contours are based on a set distance above the local terrain level of 2.4m.

- 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
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## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 59 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Author: JG

Scale: 1:20,000

- ✕ Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

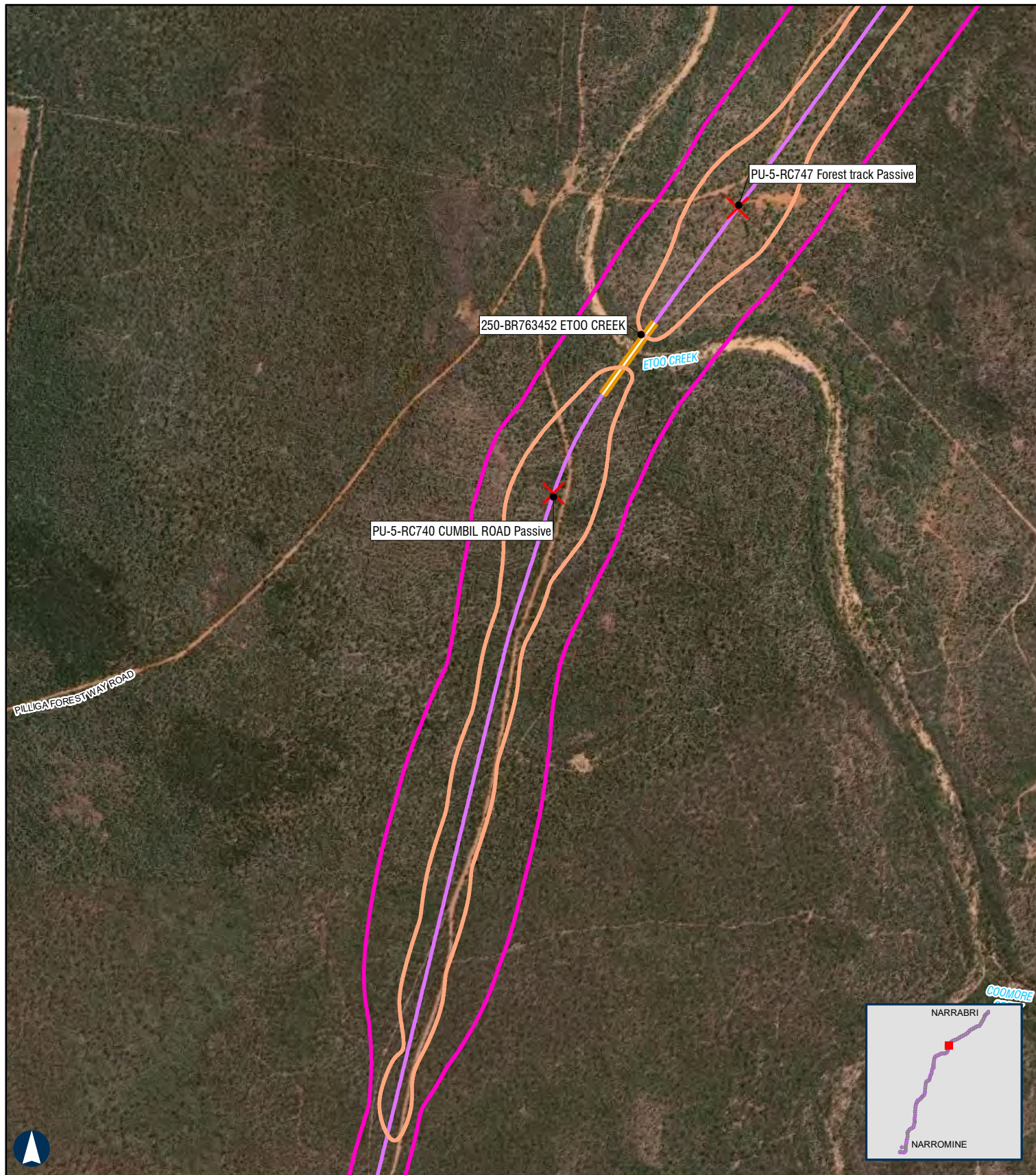
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- Daytime noise criteria LAeq15hr 60dBA new rail corridor
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## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 60 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Scale: 1:20,000

- ✕ Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

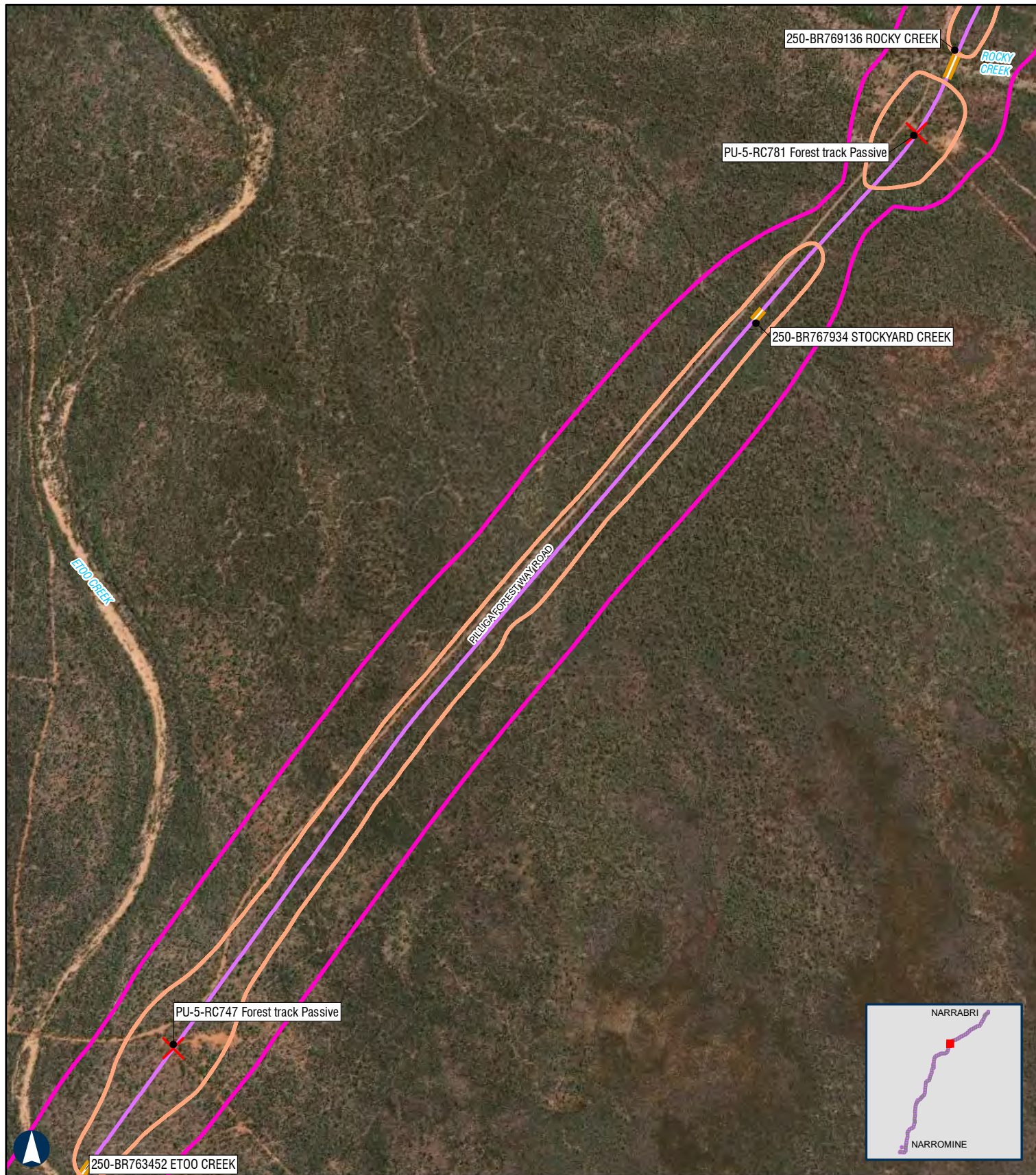
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## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 61 of 168

500 m

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- Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

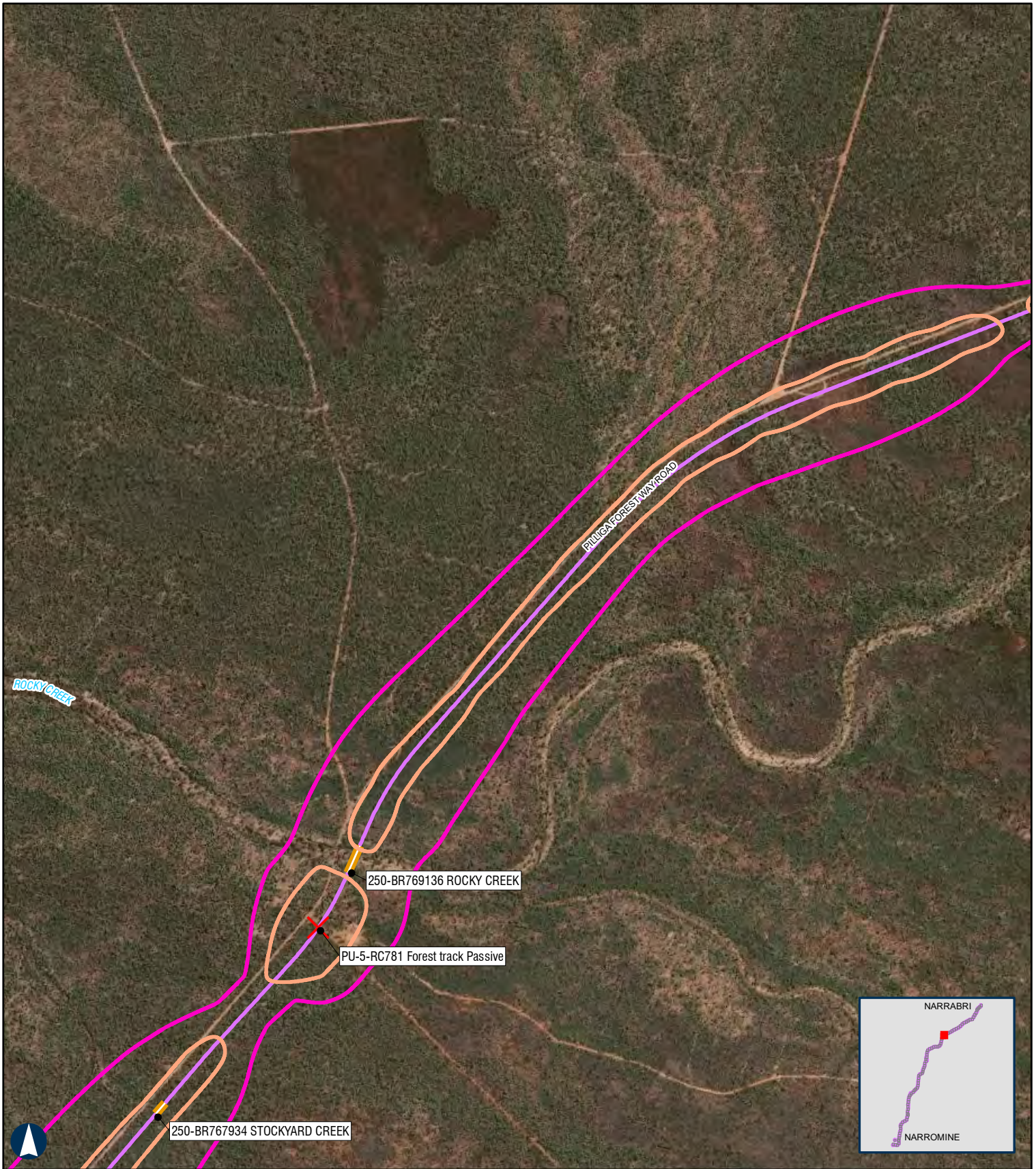
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## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 62 of 168

500 m

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- ✕ Level Crossings
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- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

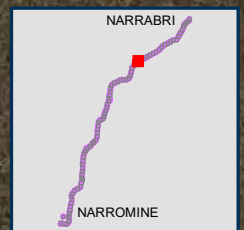
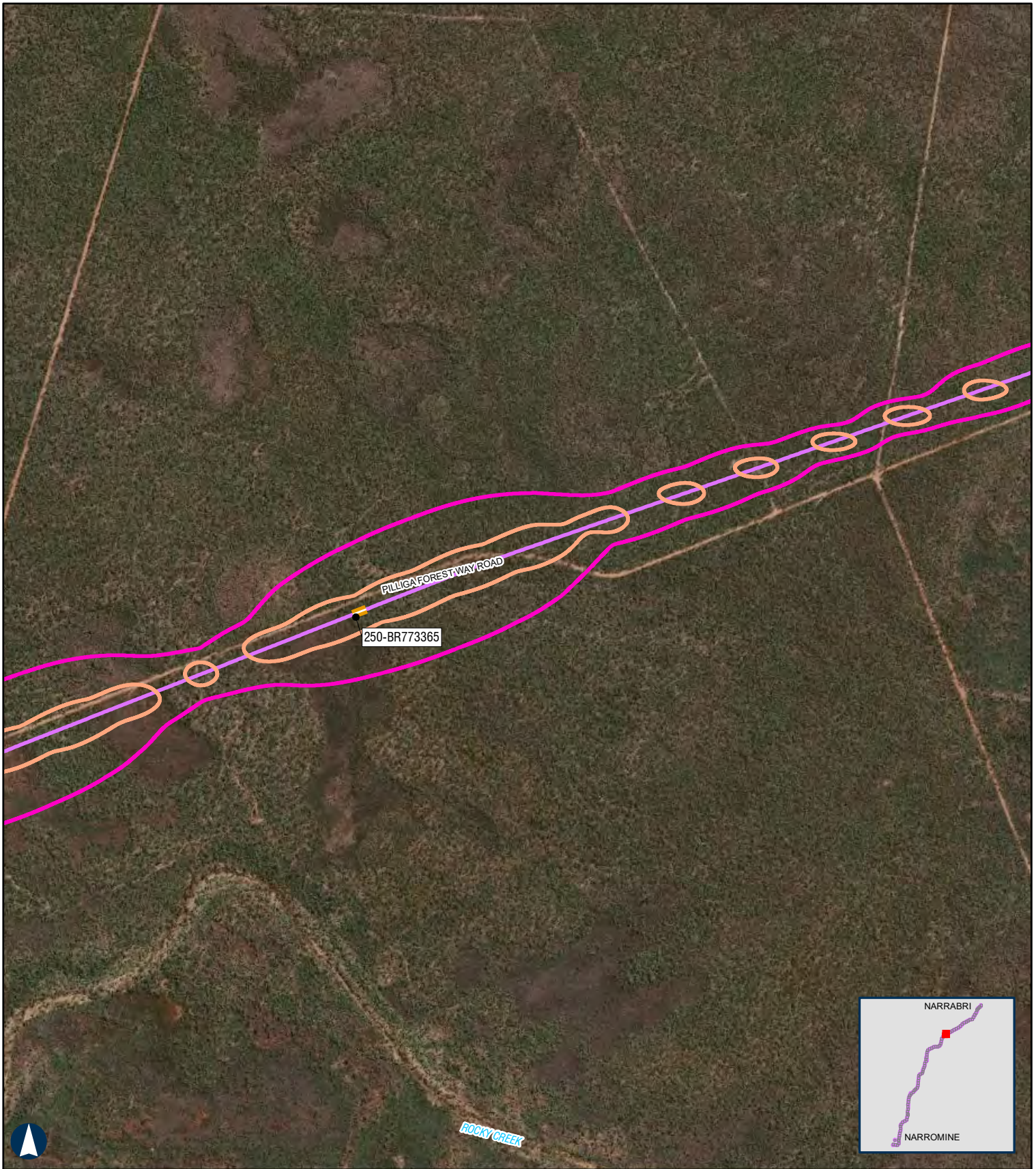
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## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 63 of 168

500 m

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- Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

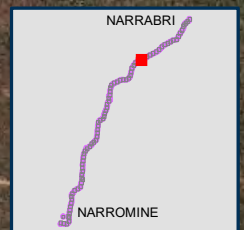
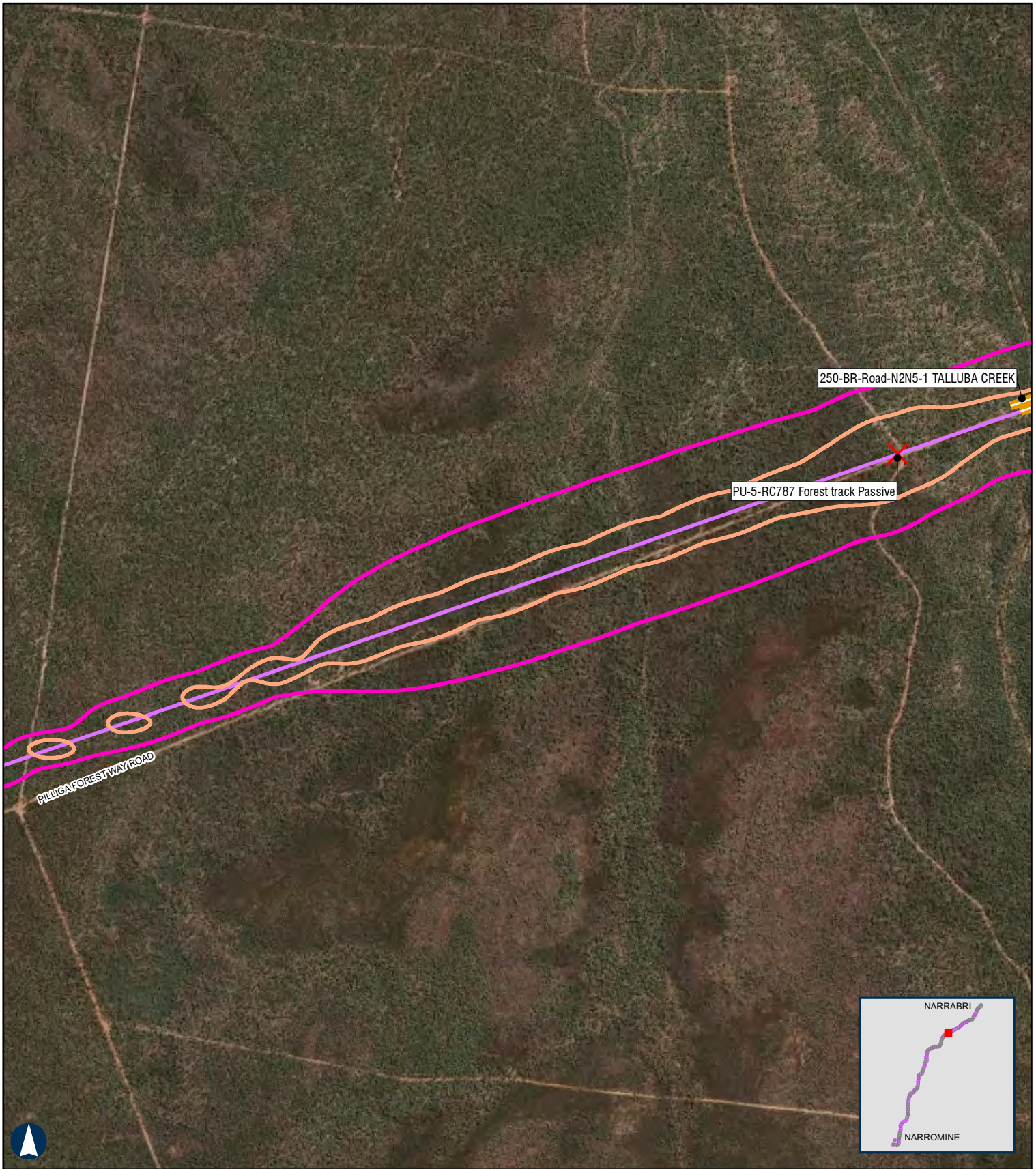
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## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 64 of 168

500 m

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- Level Crossings
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- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

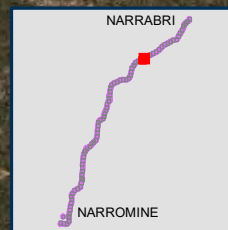
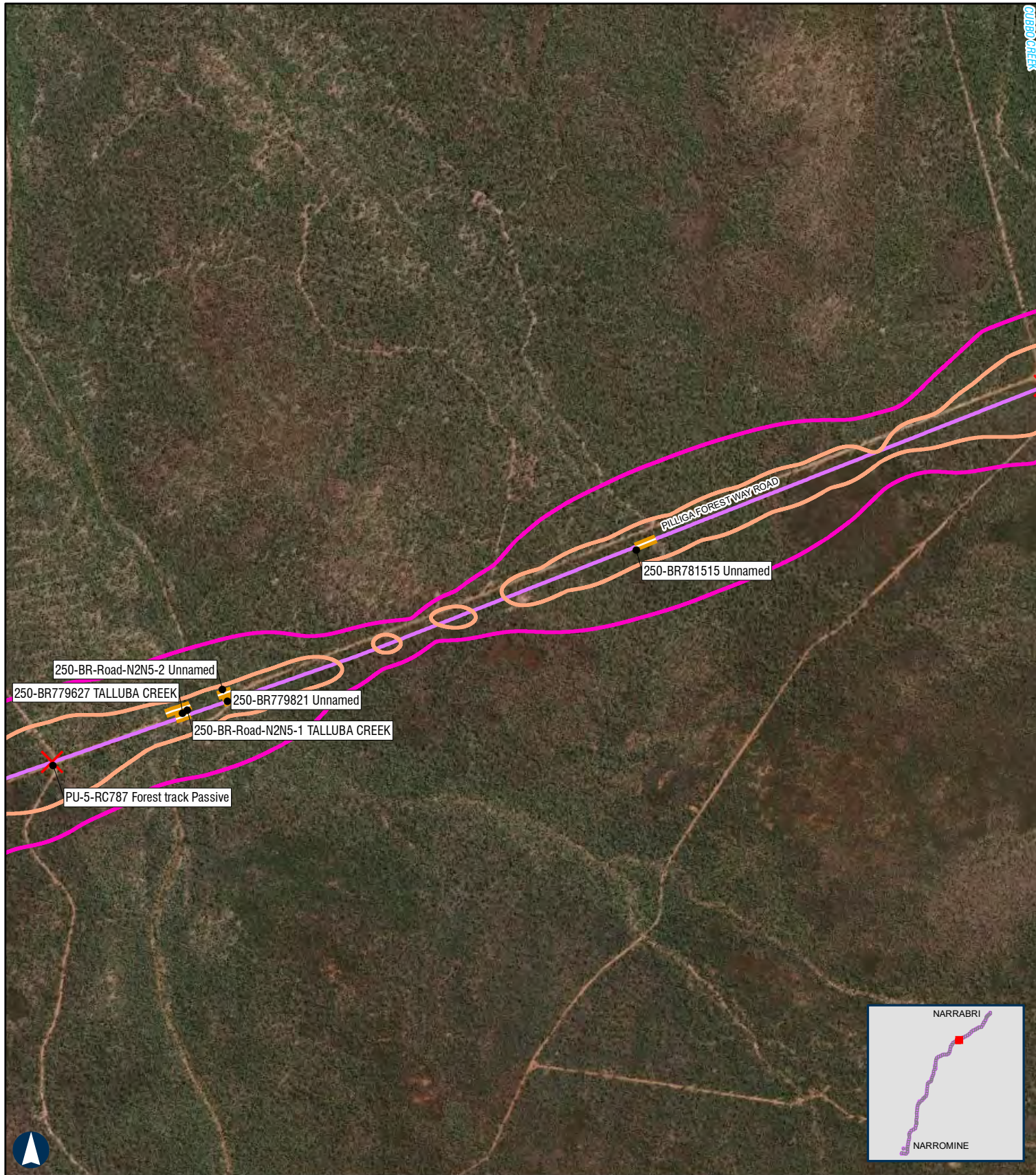
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## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 65 of 168

500 m

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- Level Crossings
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- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

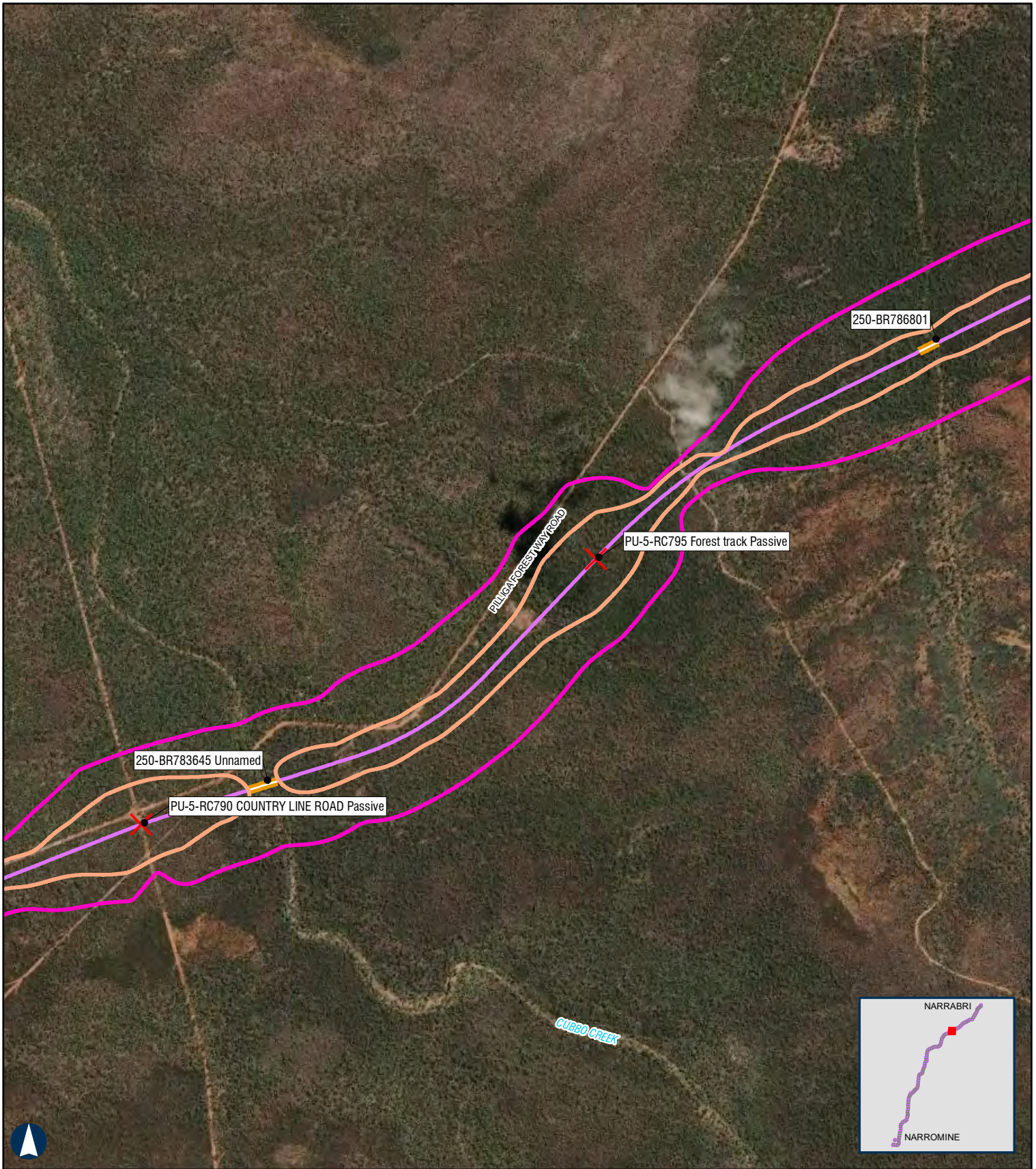
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## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 66 of 168

500 m

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Date: 31-Jul-2020

Author: JG

- ✕ Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

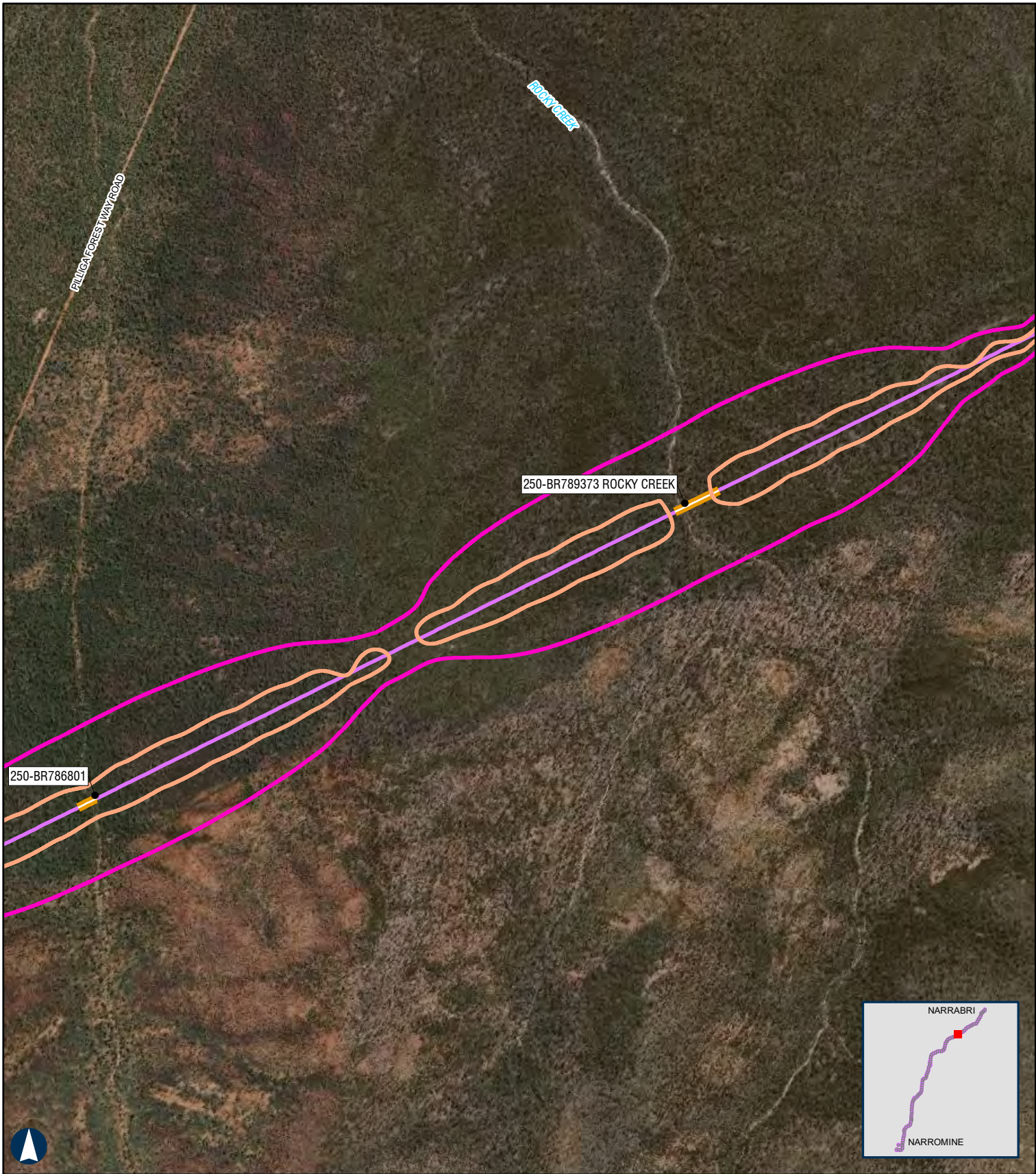
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## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 67 of 168

500 m

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- Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

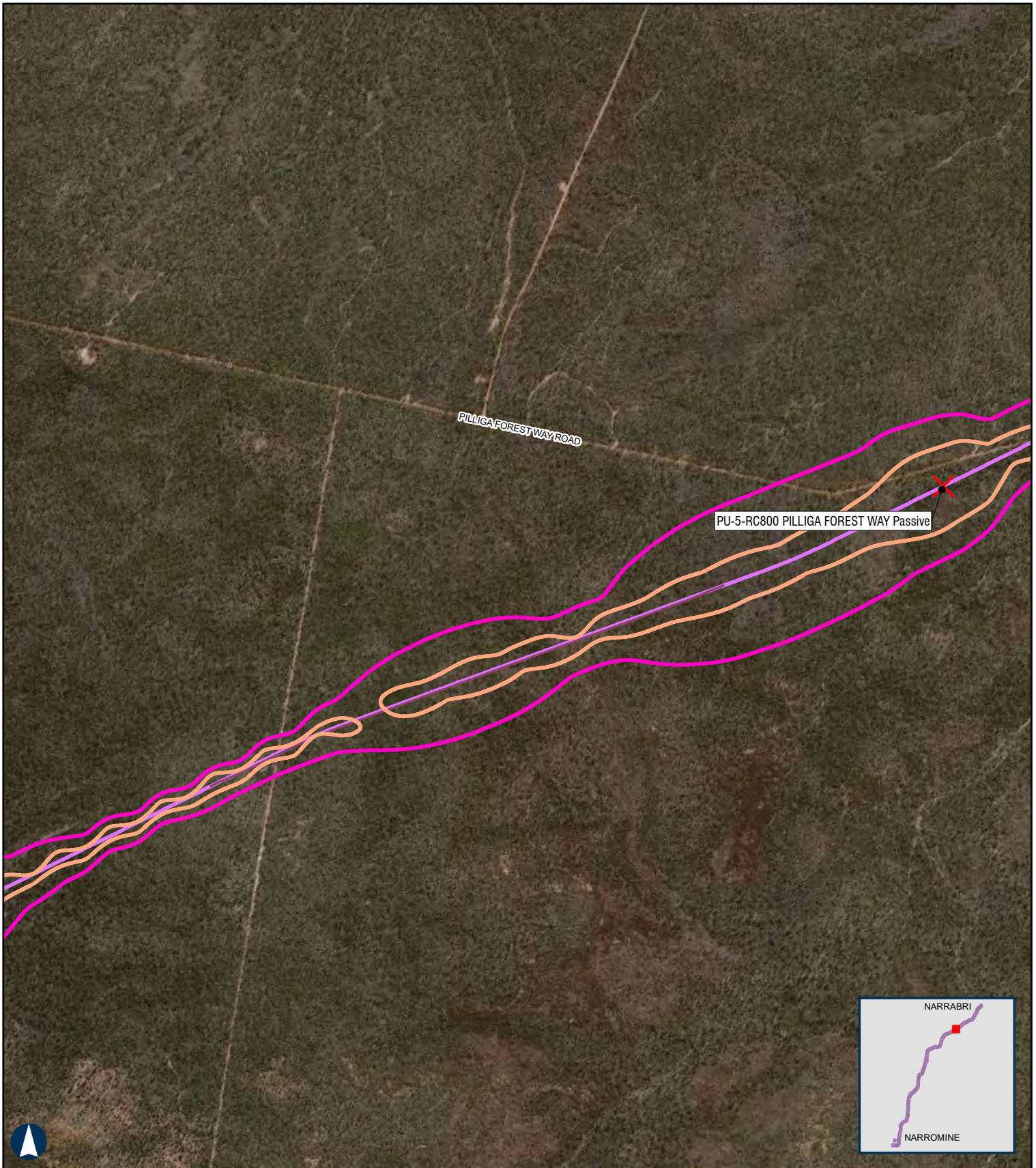
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- Daytime noise criteria LAeq15hr 60dBA new rail corridor
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## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 68 of 168

500 m

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Scale: 1:20,000

- Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

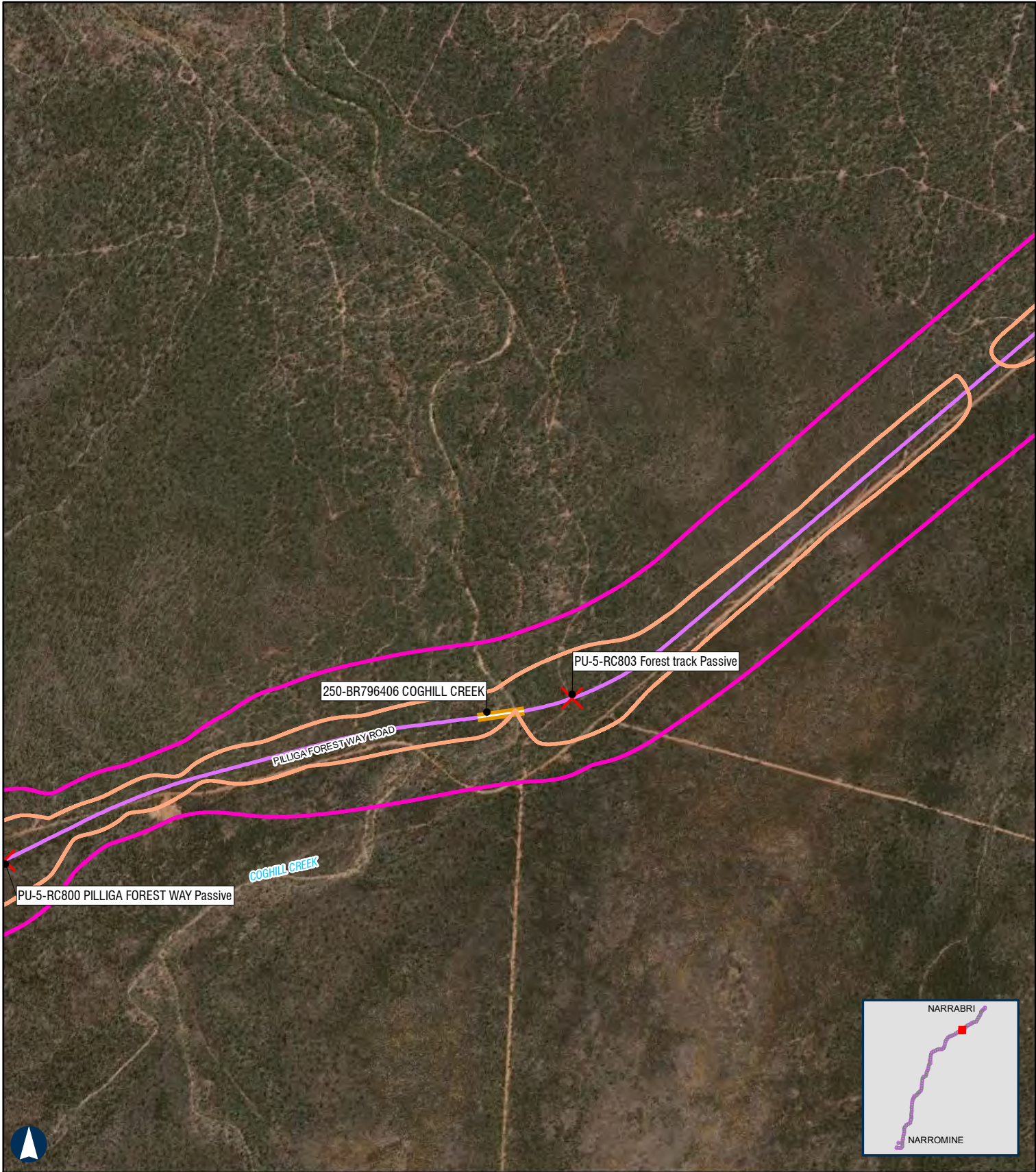
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**ARTC** **InlandRail**

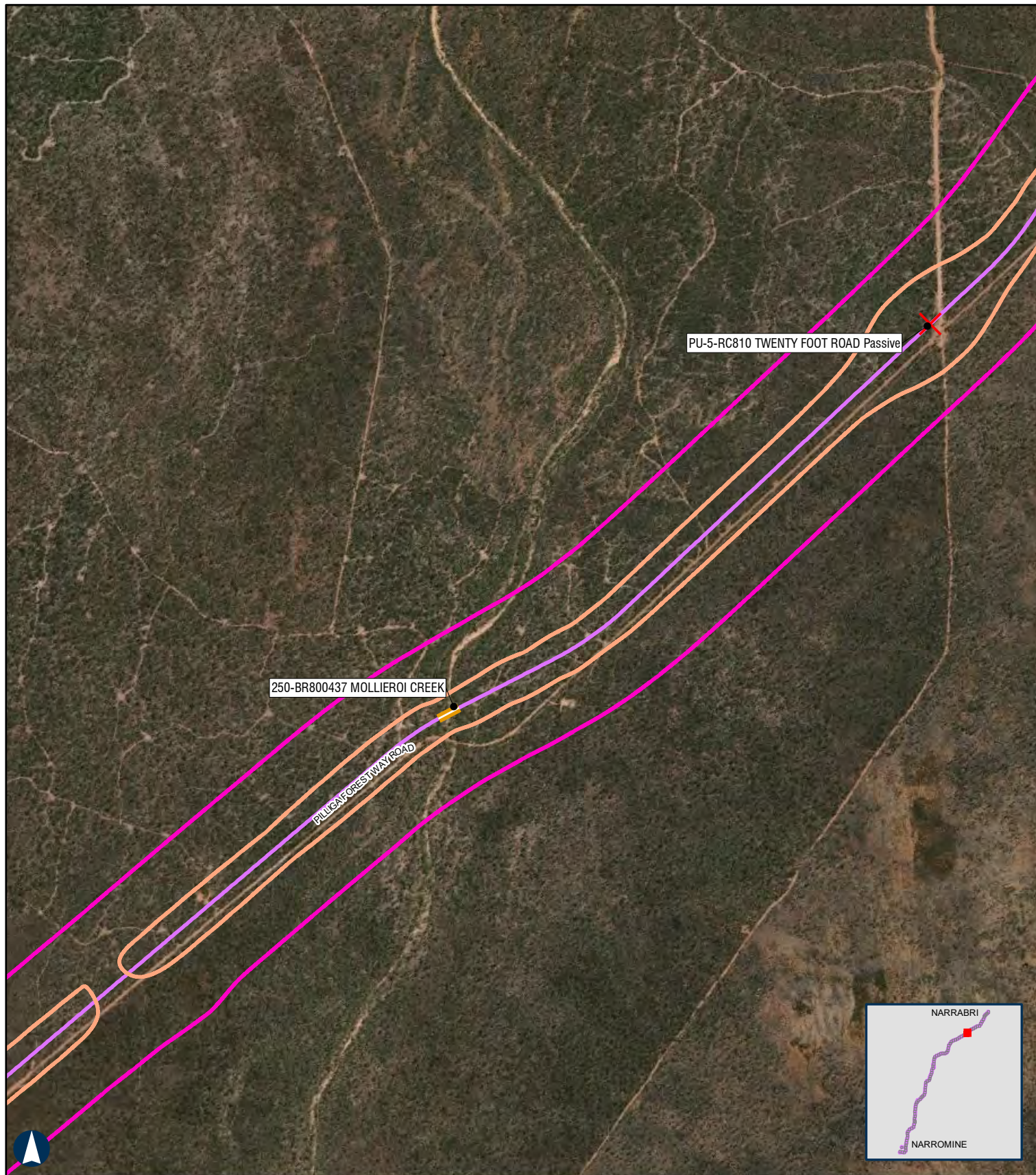
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| NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                           | APPENDIX D - Map 69 of 168                                                                                                                                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>500 m</b></p> <p>Coordinate System: GDA 1994 MGA Zone 55</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: 31-Jul-2020 Author: JG Scale: 1:20,000</p> |                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                 |
| <p> Level Crossings</p> <p> Proposal Extent</p> <p> Crossing Loops</p> <p> Rail Alignment/Centreline</p> <p> Bridges and Viaducts</p> <p> Sensitive Receivers</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><b>ARTC InlandRail</b></p> <p>The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation, in partnership with the private sector.</p> |





## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 70 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4  
Date: 31-Jul-2020  
Author: JG

Scale: 1:20,000

- Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

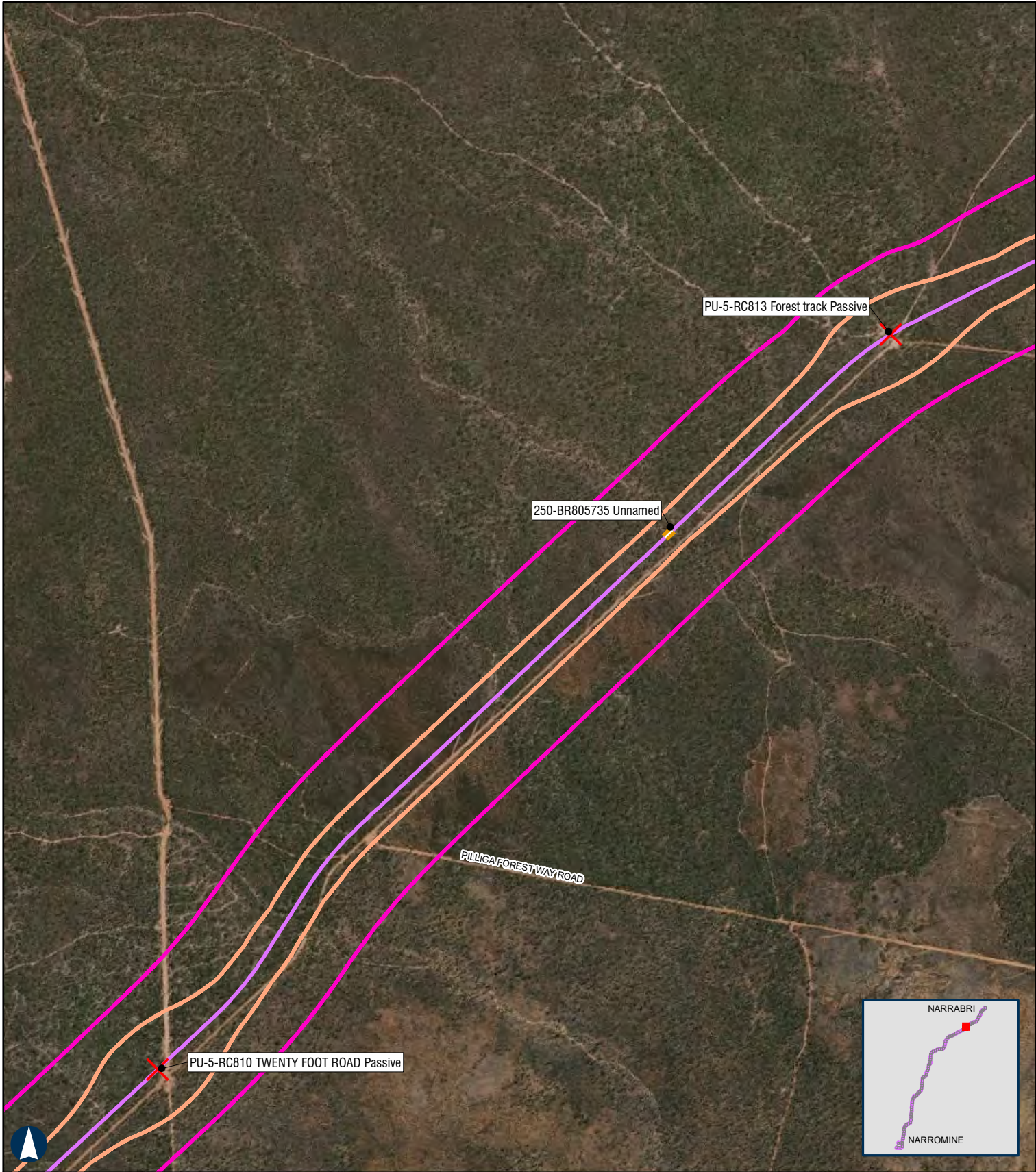
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500 m

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Author: JG

Scale: 1:20,000

✗

Level Crossings

—

Proposal Extent

—

Crossing Loops

—

Rail Alignment/Centreline

—

Bridges and Viaducts

■

Sensitive Receivers

■

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

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Daytime noise criteria LA max 80dBA new rail corridor

—

Daytime noise criteria LA max 85dBA upgrading existing rail corridor

APPENDIX D - Map 71 of 168

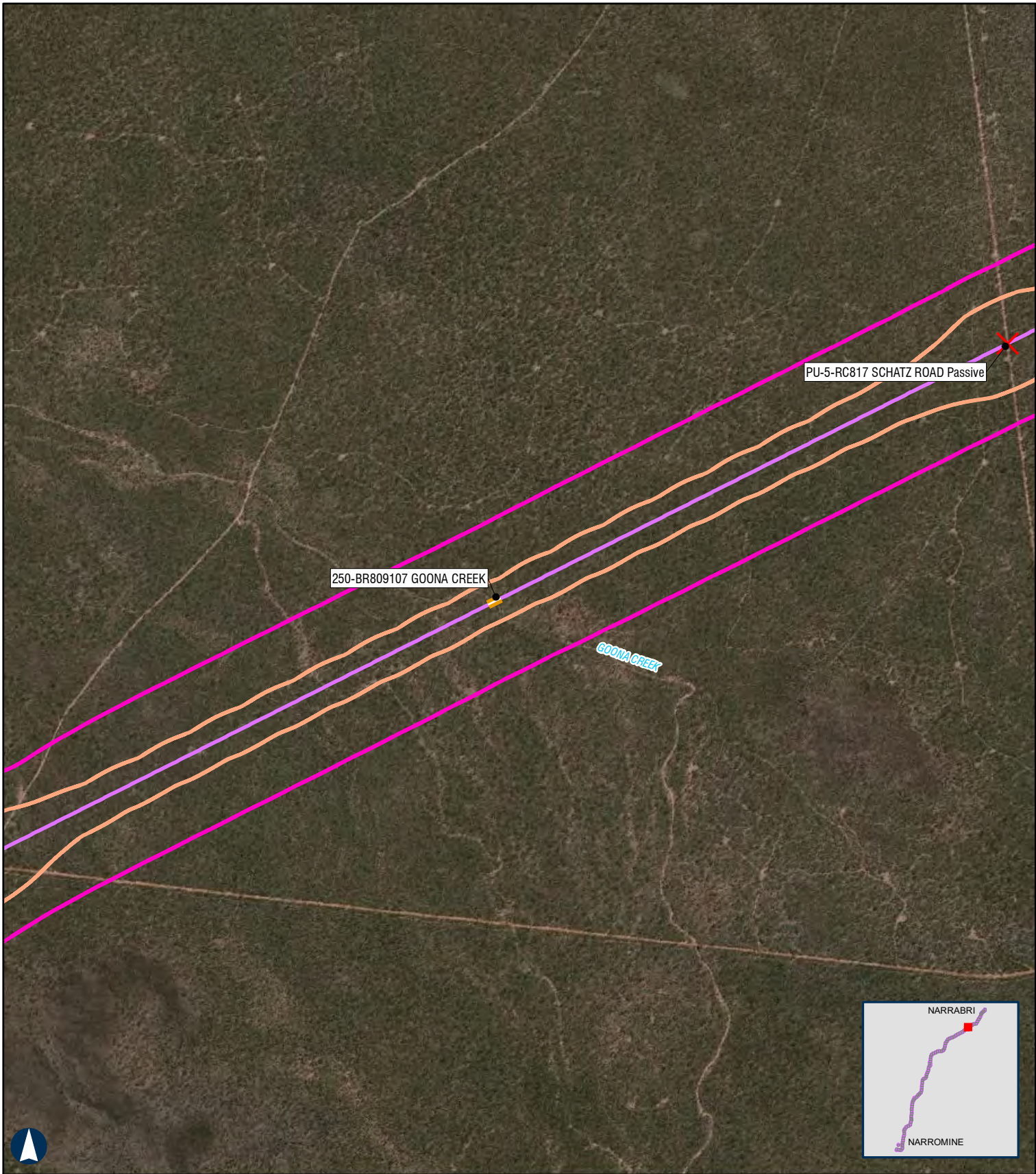
ARTC

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Service Layer Credits: Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community





## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 72 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4  
Date: 31-Jul-2020  
Author: JG

Scale: 1:20,000

- Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

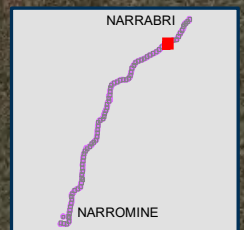
Noise contours are based on a set distance above the local terrain level of 2.4m.

- 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

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## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 73 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4  
Date: 31-Jul-2020  
Author: JG

Scale: 1:20,000

- Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

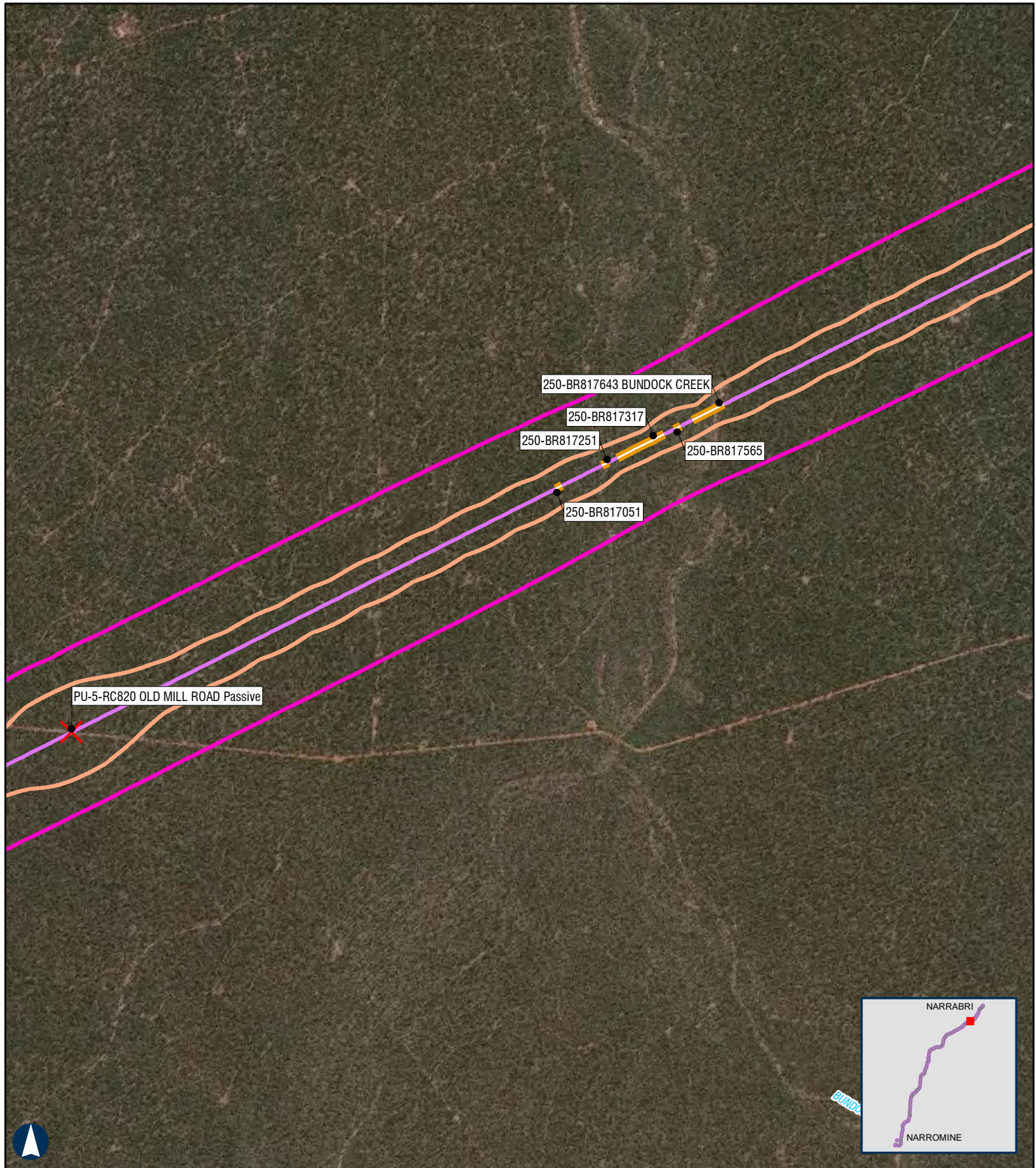
Noise contours are based on a set distance above the local terrain level of 2.4m.

- 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

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## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 74 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4

Scale: 1:20,000

Date: 31-Jul-2020

Author: JG

- Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

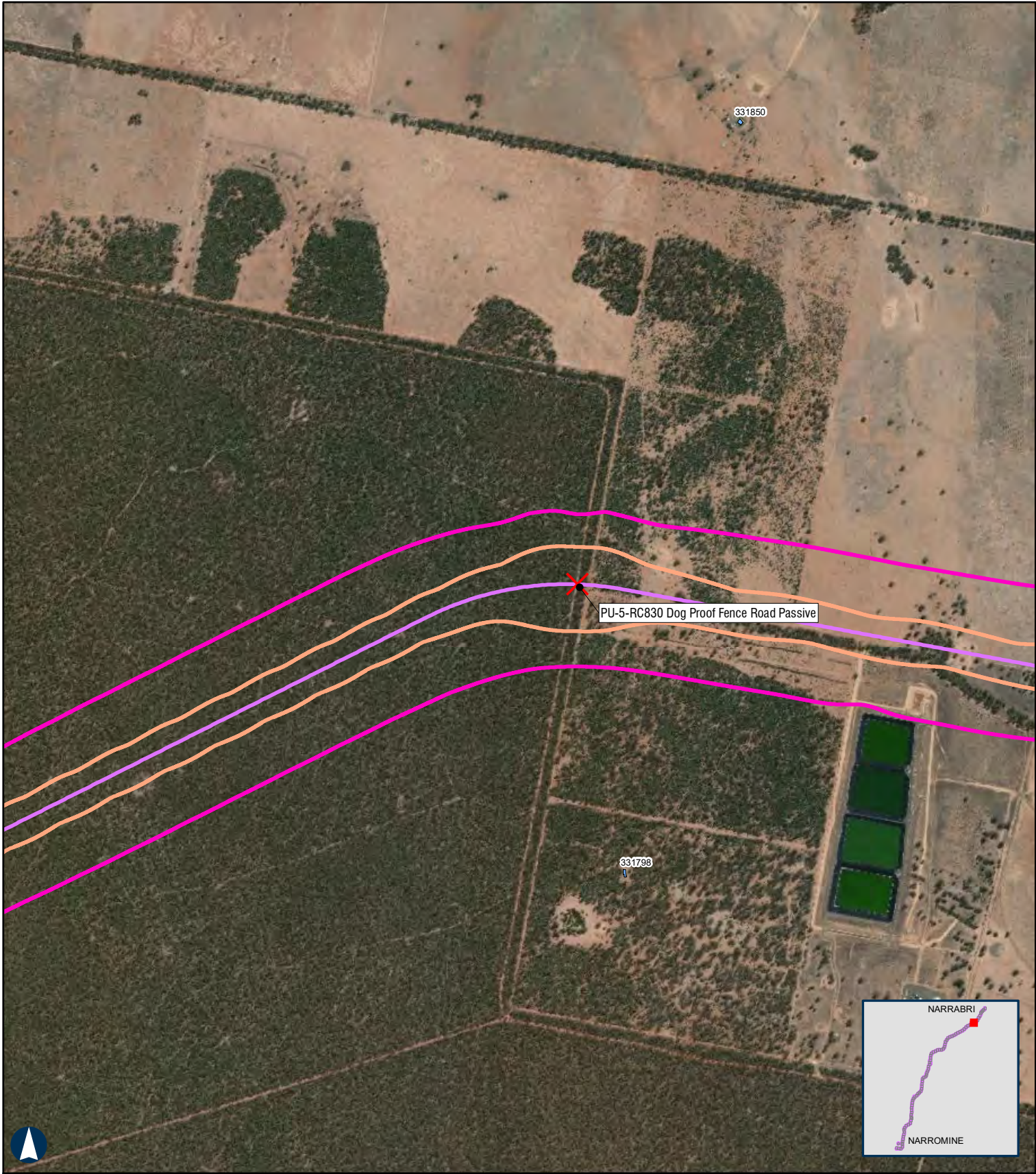
Noise contours are based on a set distance above the local terrain level of 2.4m.

- 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

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NARROMINE TO NARRABRI

Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 75 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4  
Date: 31-Jul-2020  
Author: JG

✕

Level Crossings

—

Proposal Extent

—

Crossing Loops

—

Rail Alignment/Centreline

—

Bridges and Viaducts

■

Sensitive Receivers

■

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

—

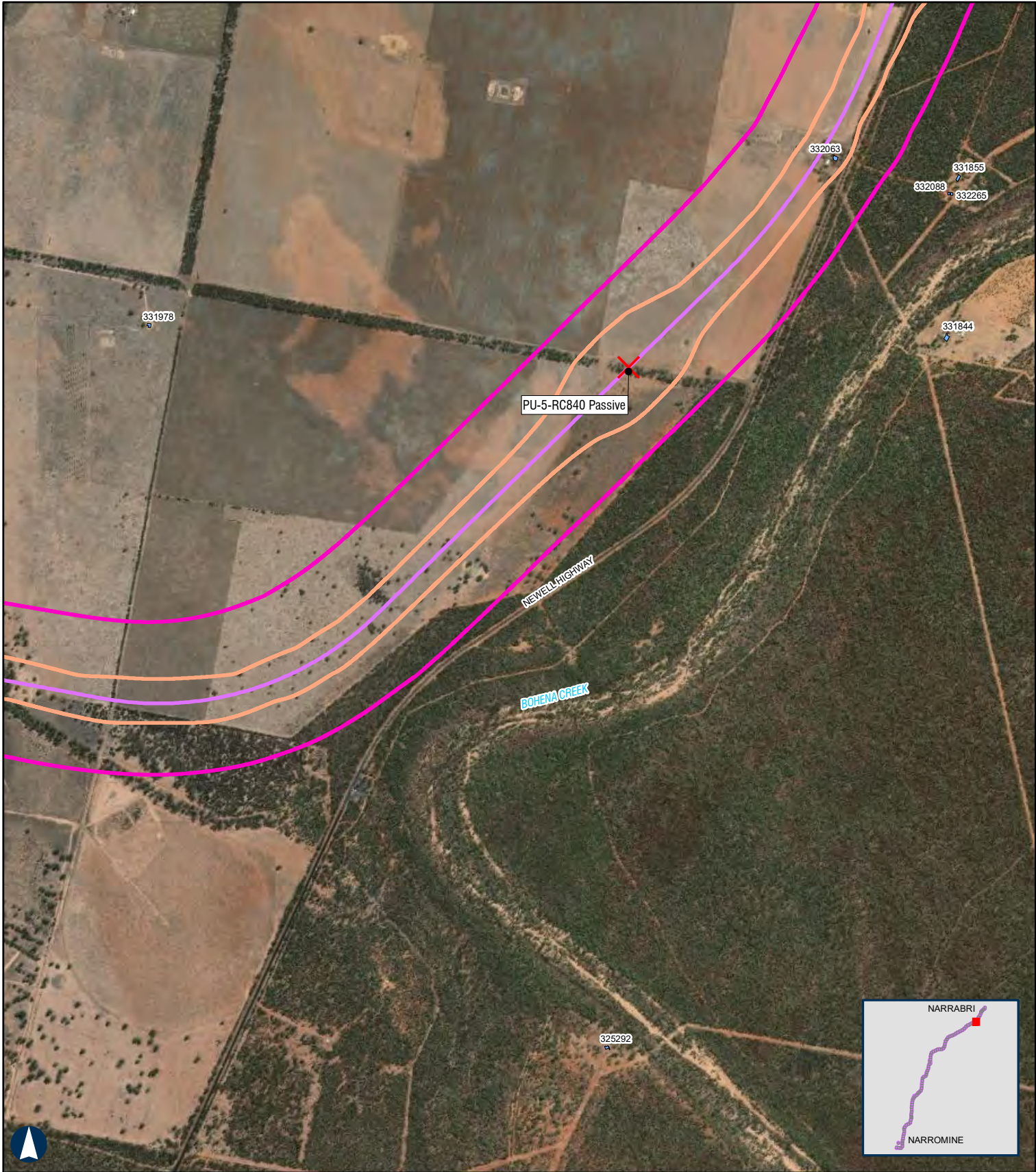
Daytime noise criteria LA max 85dBA upgrading existing rail corridor

ARTC

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**NARROMINE TO NARRABRI** Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 76 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4  
Date: 31-Jul-2020  
Author: JG

Scale: 1:20,000

- ✗ Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

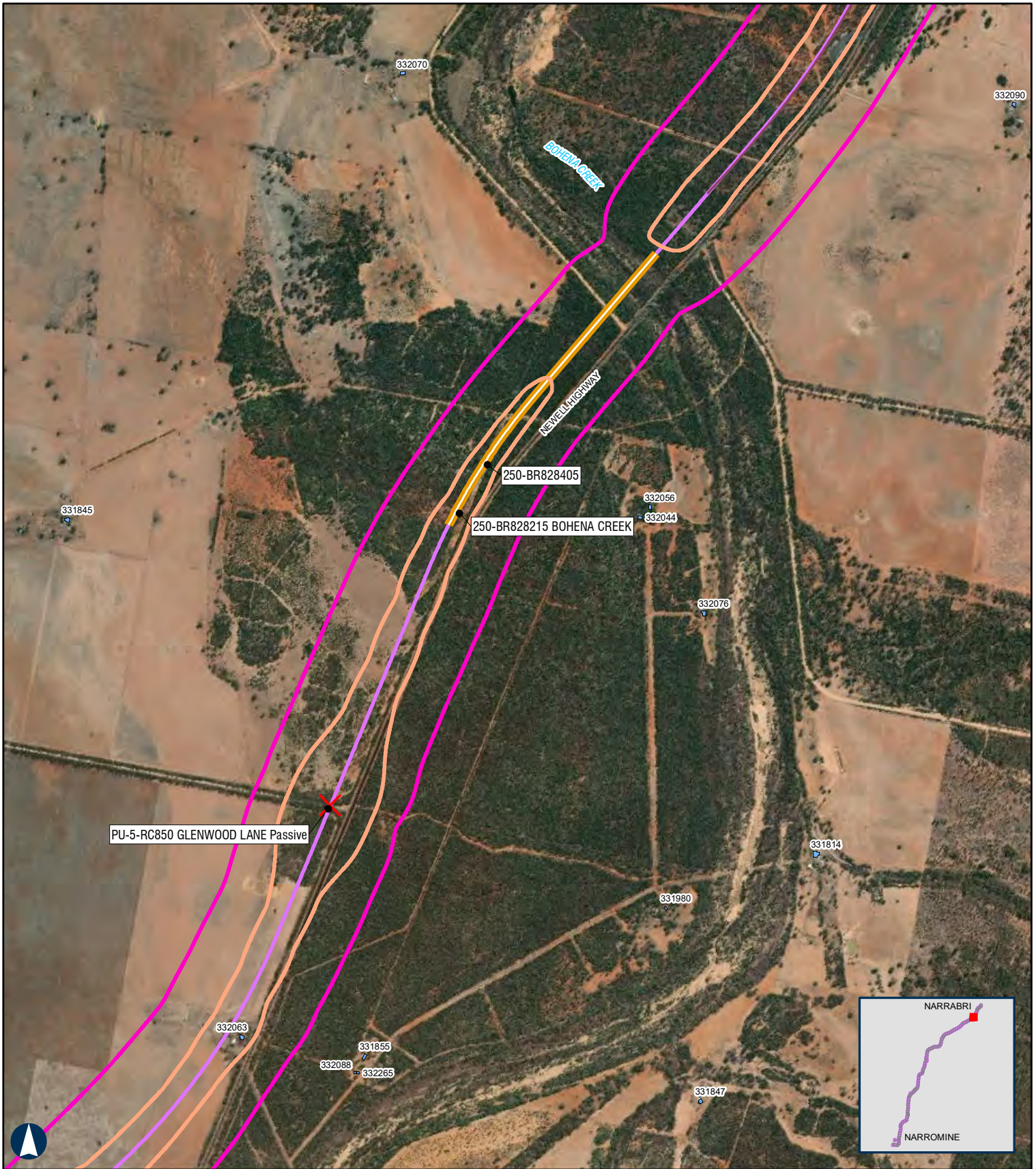
Noise contours are based on a set distance above the local terrain level of 2.4m.

- 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

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## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 77 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4  
Date: 31-Jul-2020  
Author: JG

Scale: 1:20,000

- X Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

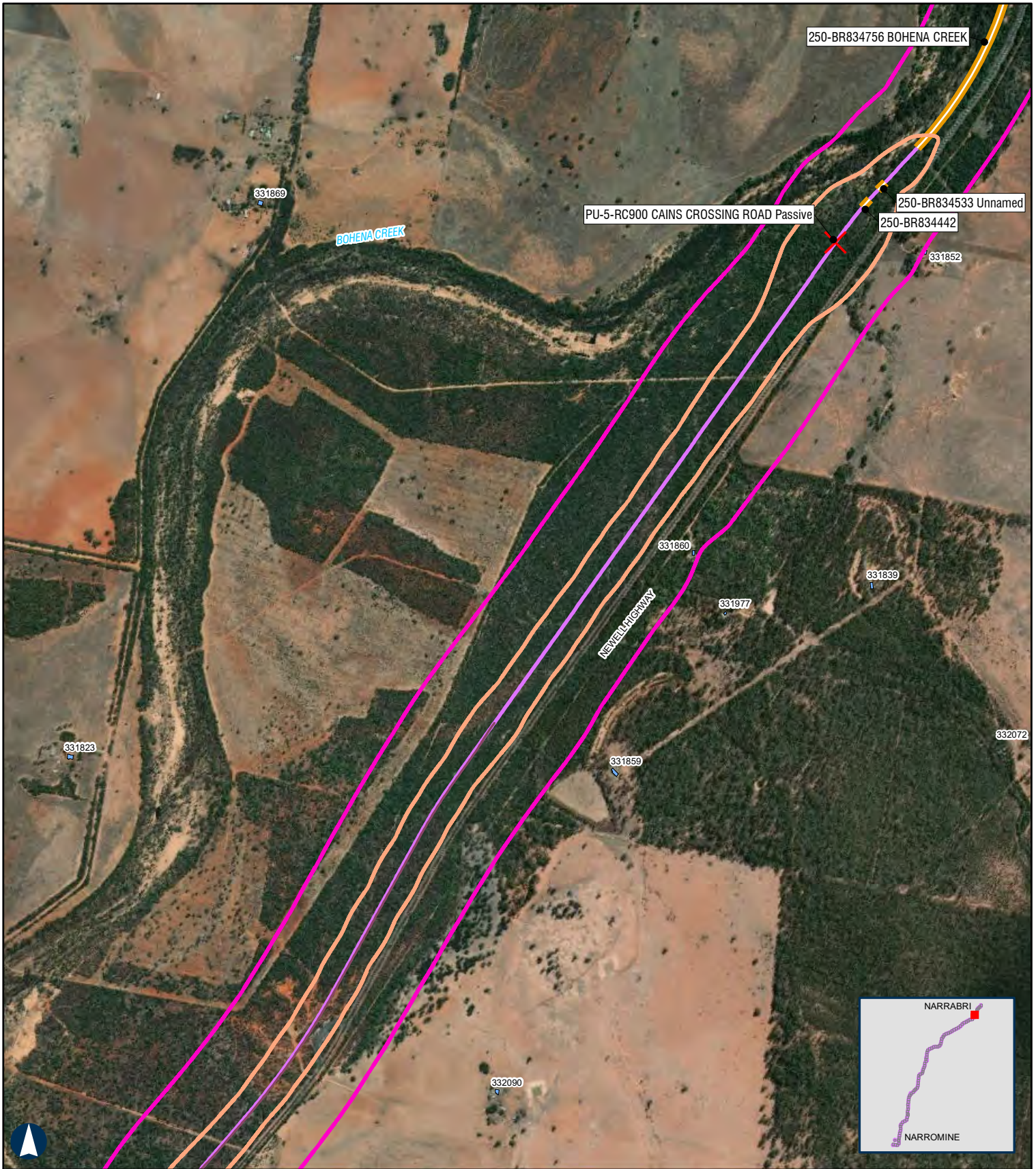
Noise contours are based on a set distance above the local terrain level of 2.4m.

- 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

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## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 78 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4  
Date: 31-Jul-2020  
Author: JG

Scale: 1:20,000

- X Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

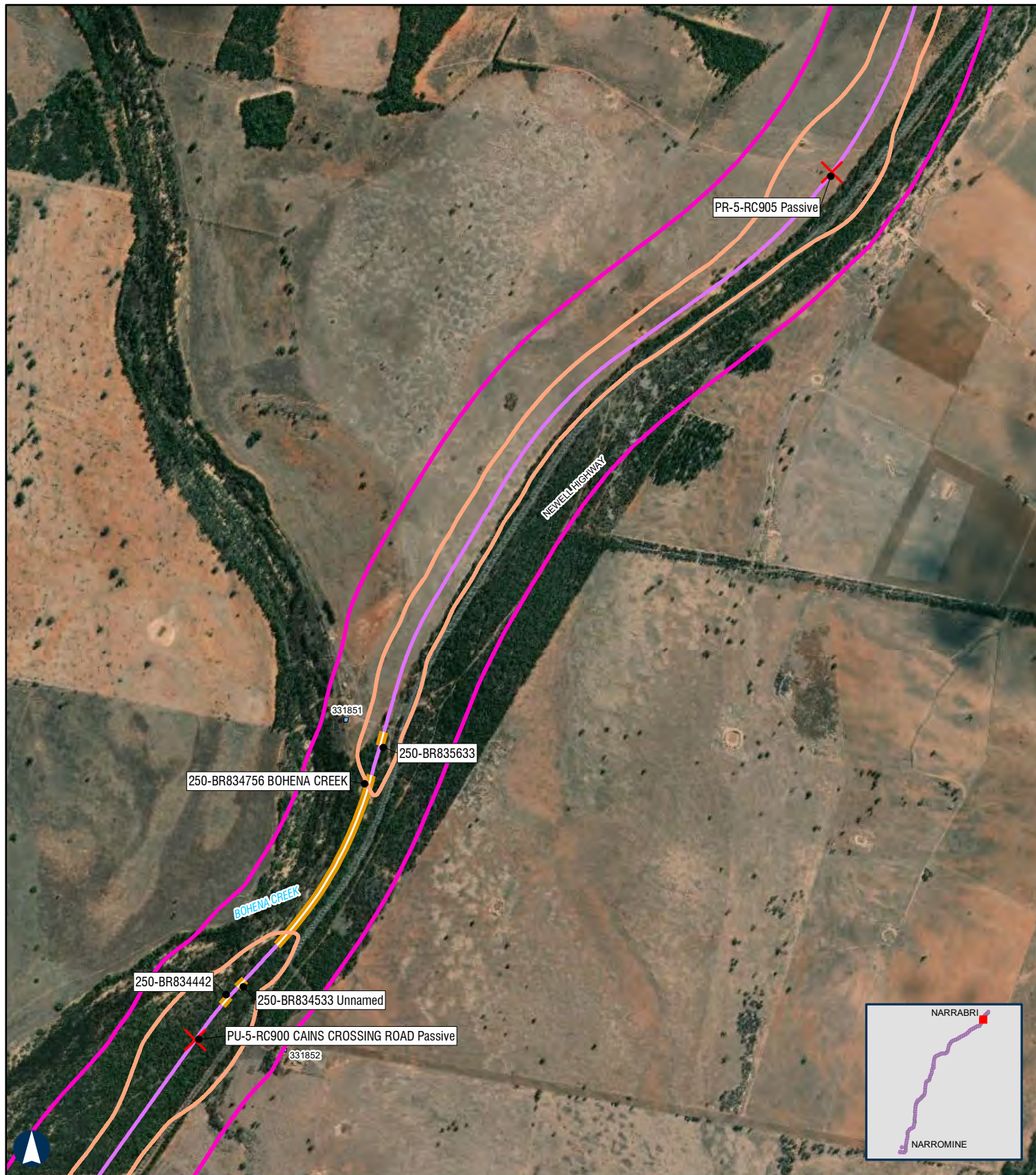
Noise contours are based on a set distance above the local terrain level of 2.4m.

- 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

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## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 79 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4  
Date: 31-Jul-2020  
Author: JG

Scale: 1:20,000

- X Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

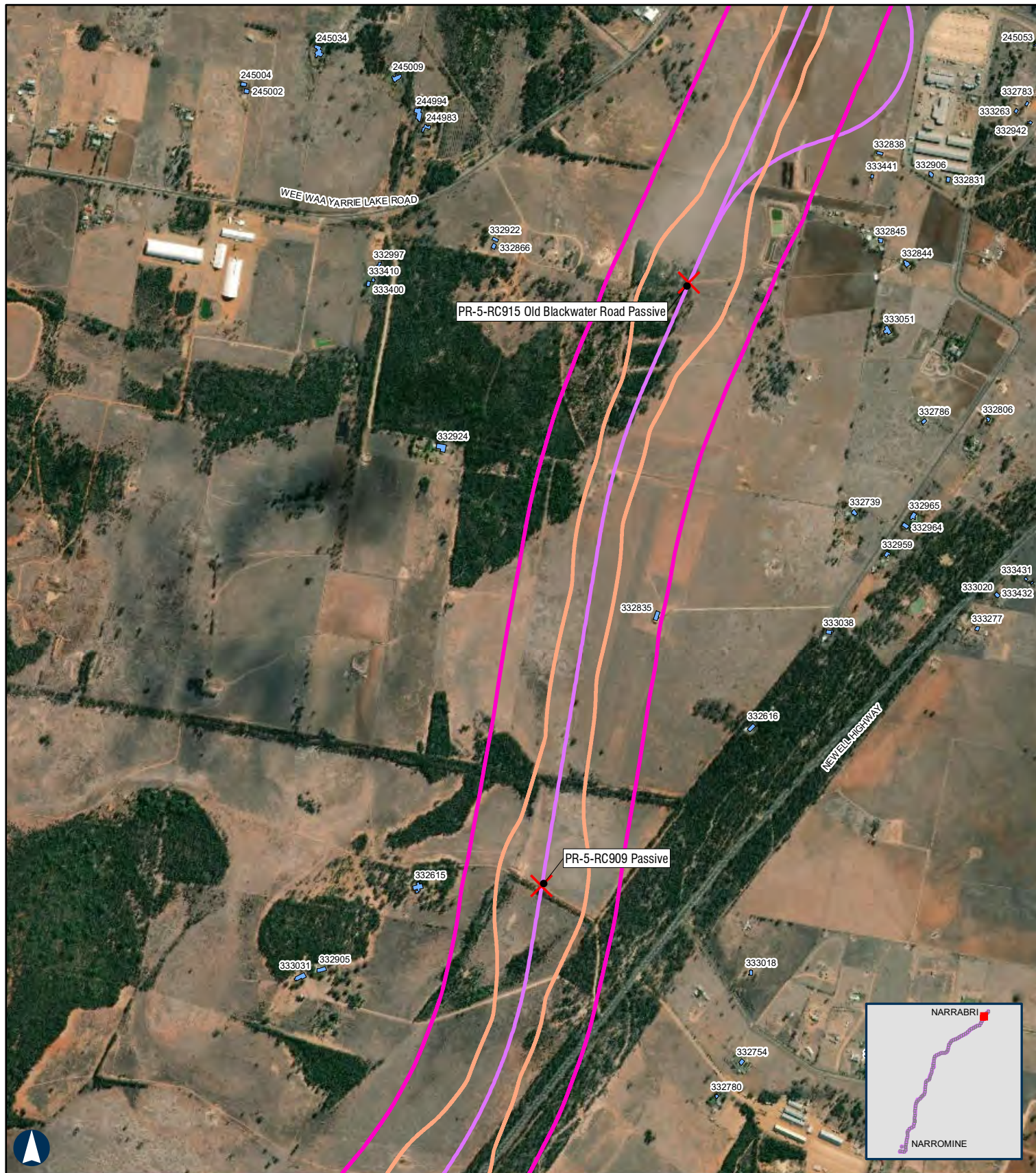
Noise contours are based on a set distance above the local terrain level of 2.4m.

- 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

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## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 80 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4  
Date: 31-Jul-2020  
Author: JG

Scale: 1:20,000

- X Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

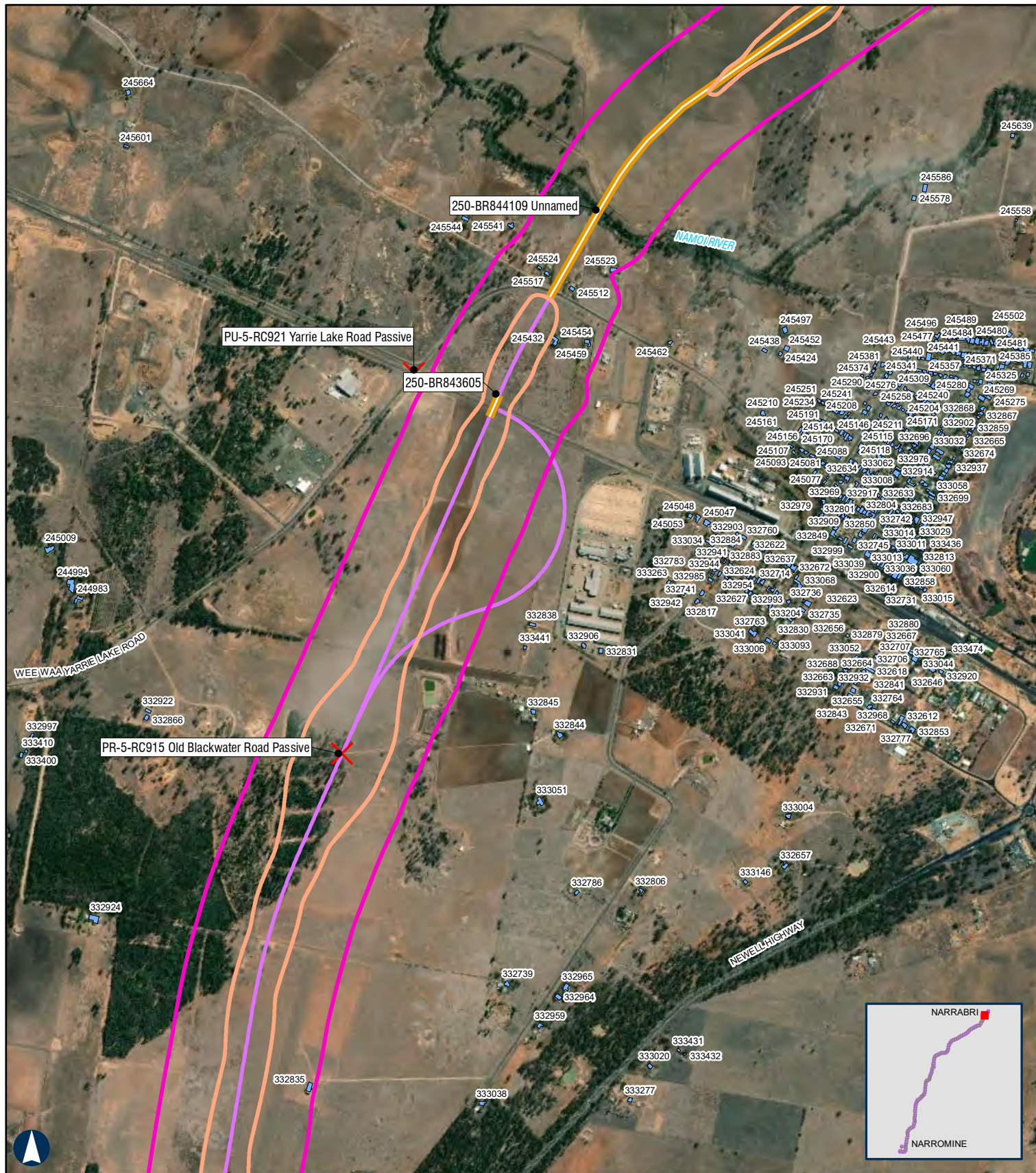
Noise contours are based on a set distance above the local terrain level of 2.4m.

- 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

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## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

## APPENDIX D - Map 81 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4  
Date: 31-Jul-2020  
Author: JG

Scale: 1:20,000

- ✕ Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

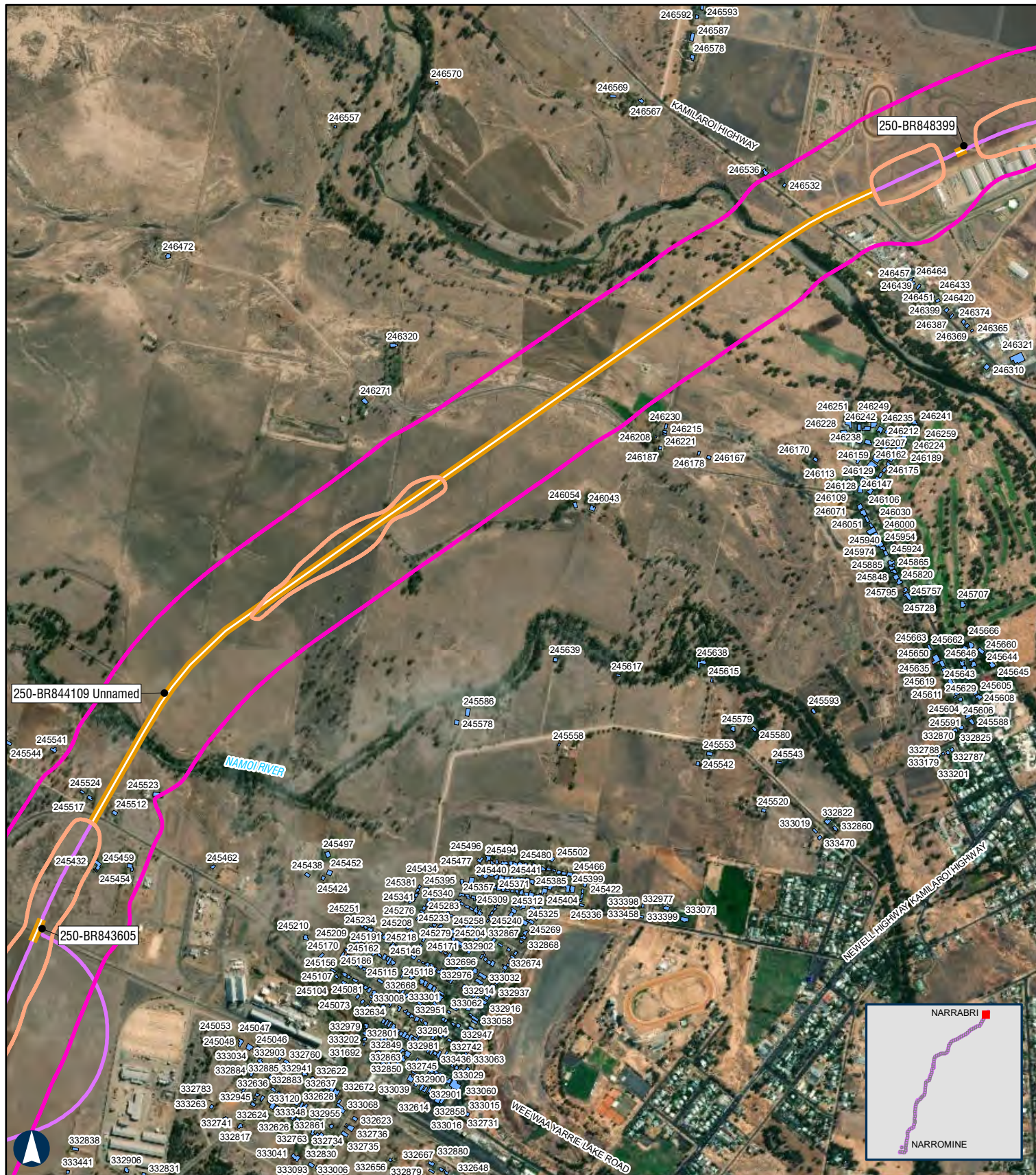
Noise contours are based on a set distance above the local terrain level of 2.4m.

- 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

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## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 82 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4  
Date: 31-Jul-2020  
Author: JG

Scale: 1:20,000

- ✕ Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

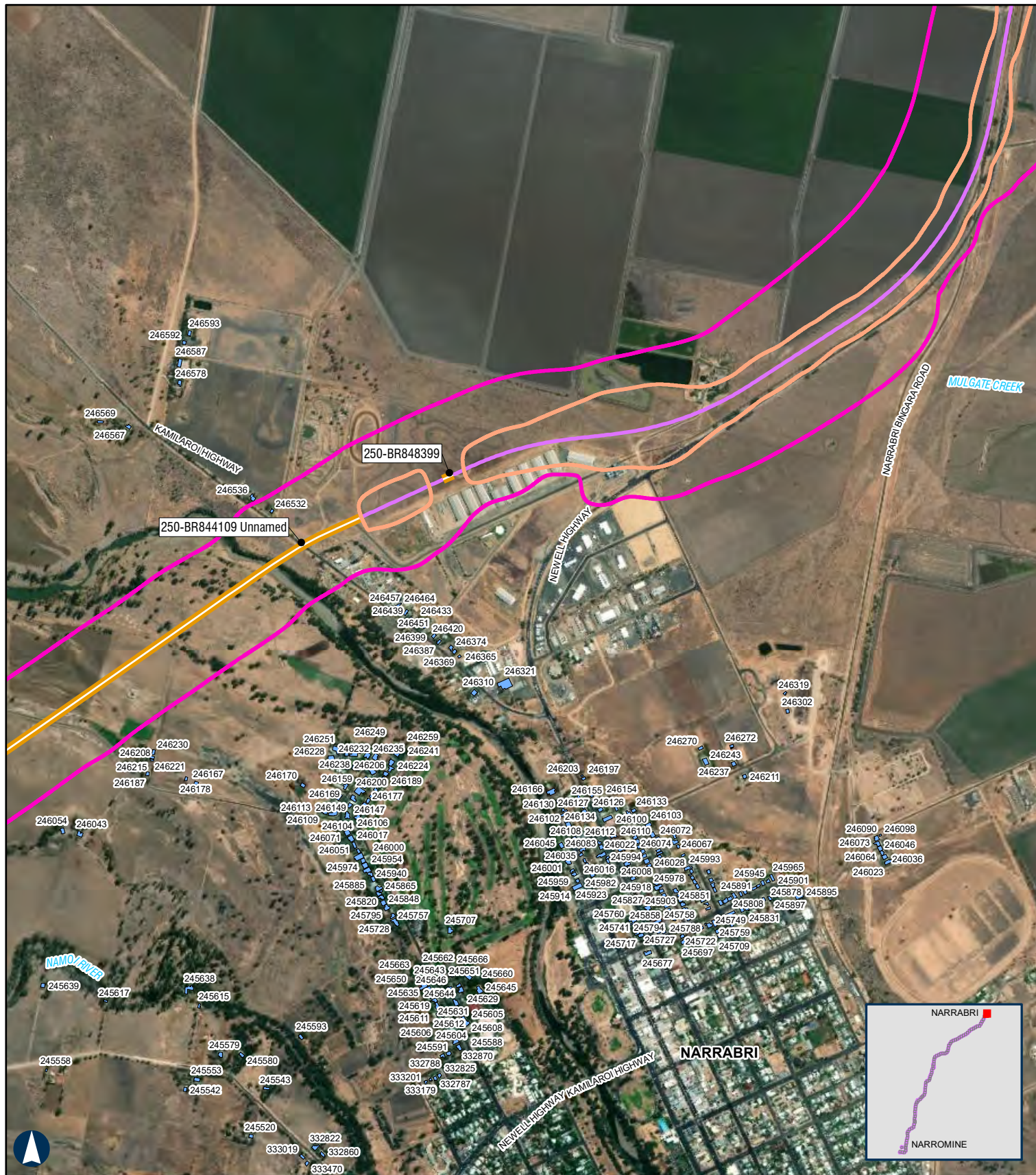
Noise contours are based on a set distance above the local terrain level of 2.4m.

- 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

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## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 83 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4  
Date: 31-Jul-2020  
Author: JG

Scale: 1:20,000

- ✕ Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

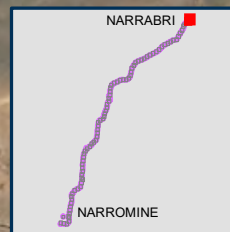
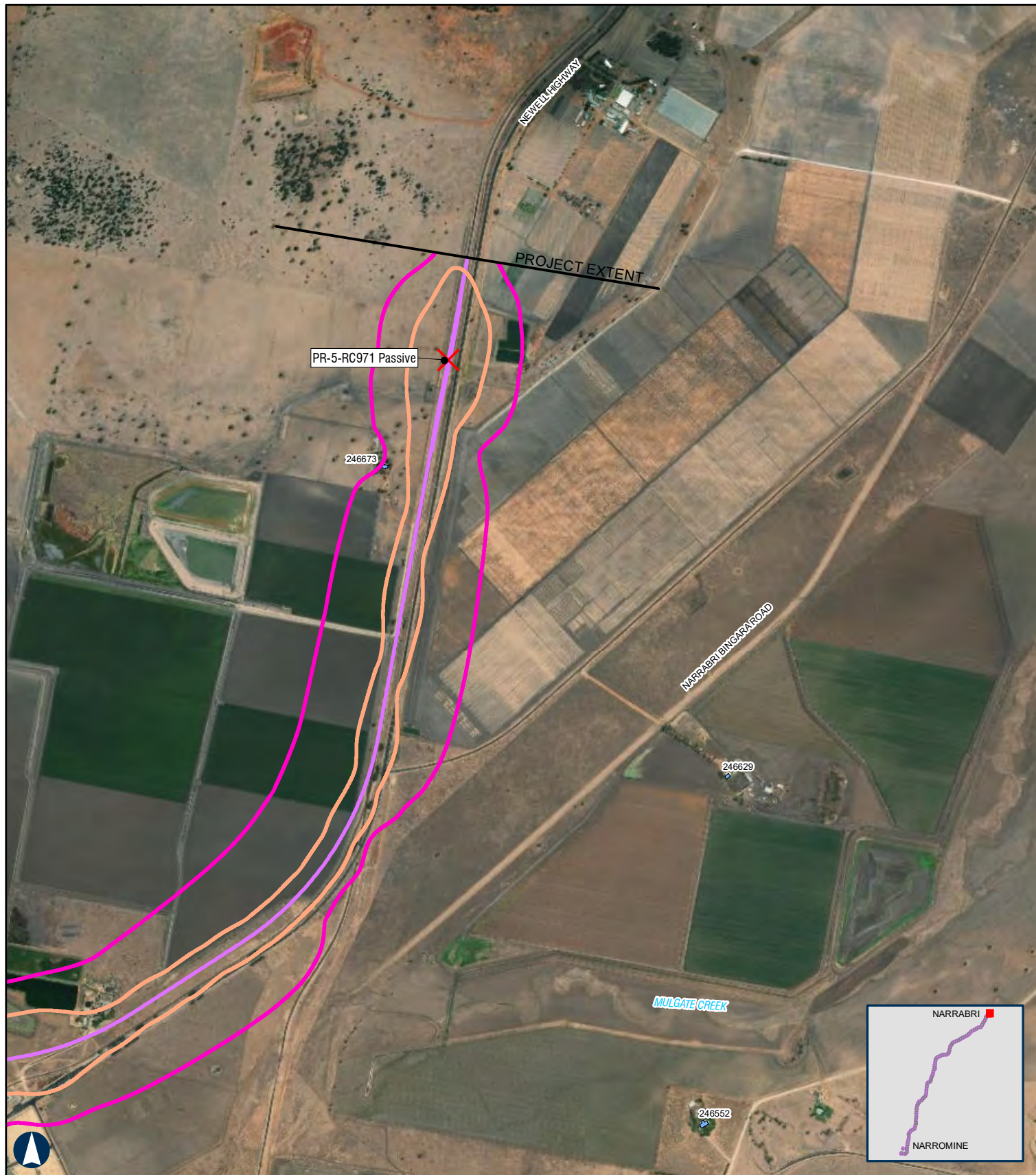
Noise contours are based on a set distance above the local terrain level of 2.4m.

- 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

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## NARROMINE TO NARRABRI Year 2025 Daytime Rail Noise Levels

APPENDIX D - Map 84 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4  
Date: 31-Jul-2020  
Author: JG

Scale: 1:20,000

- ✕ Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

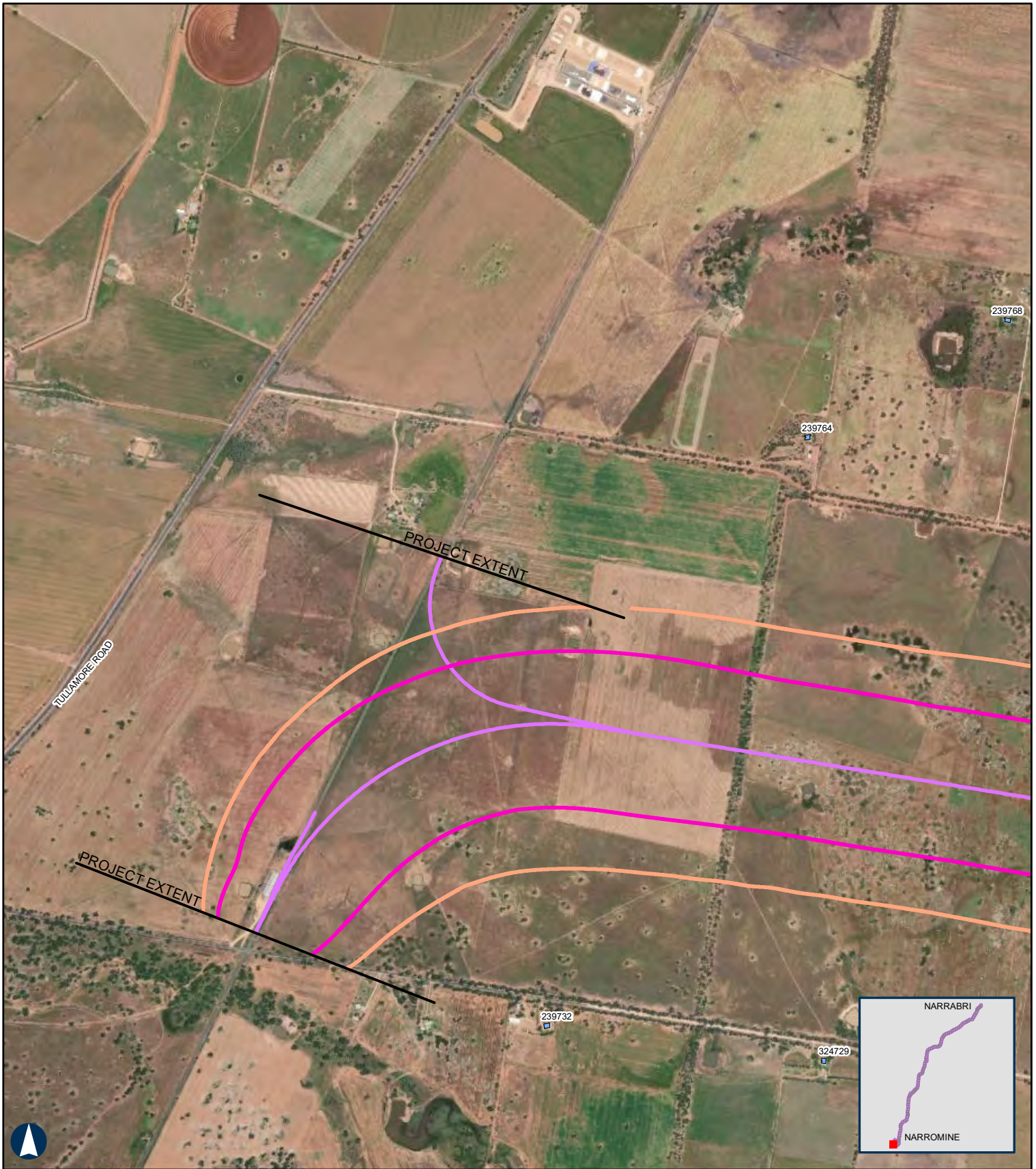
Noise contours are based on a set distance above the local terrain level of 2.4m.

- 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

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## NARROMINE TO NARRABRI

## Year 2025 Night-time Rail Noise Levels

## APPENDIX D - Map 85 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4

Scale: 1:20,000

Date: 31-Jul-2020

Author: JG

- ✗ Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

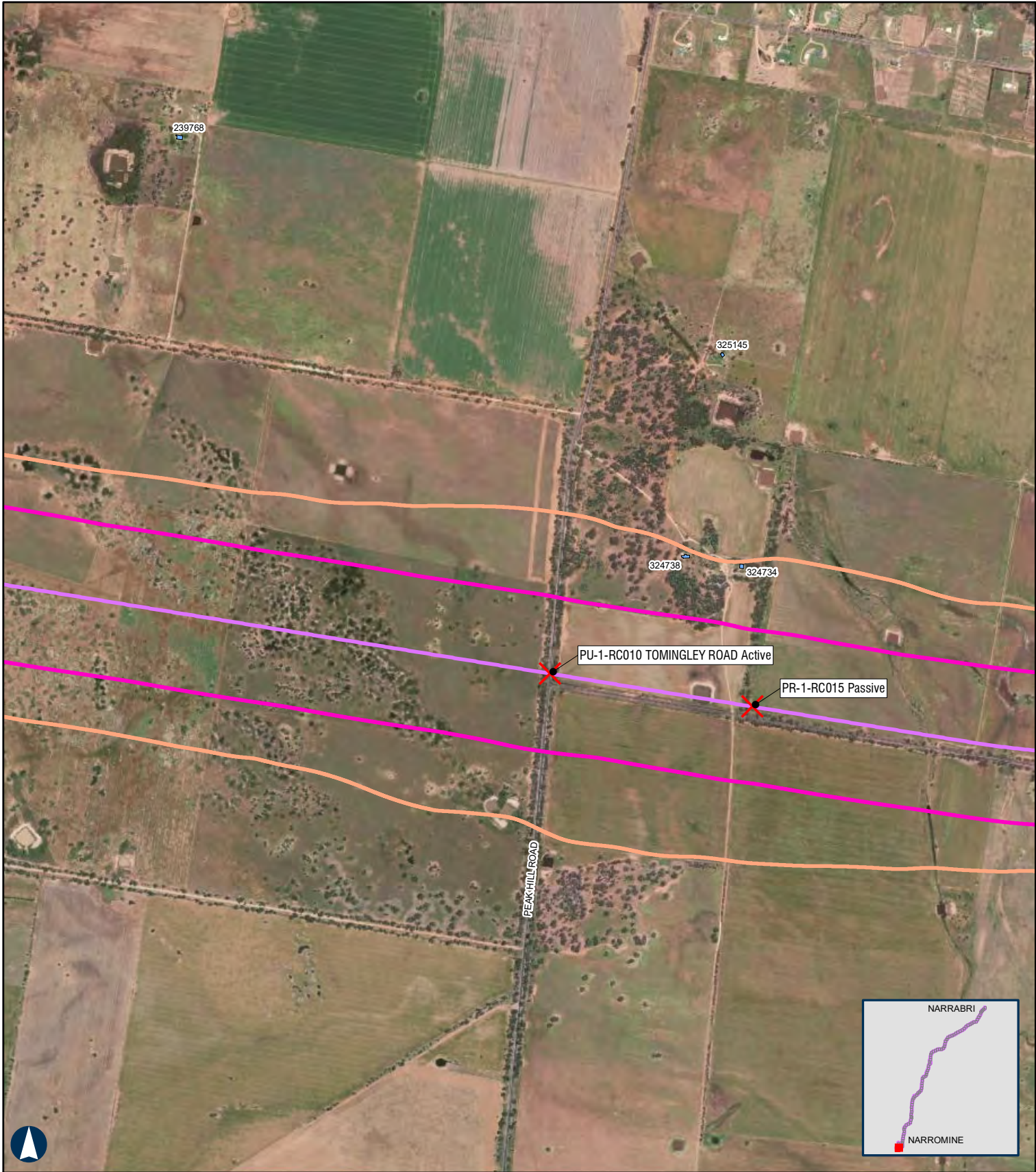
Noise contours are based on a set distance above the local terrain level of 2.4m.

- Night-time noise criteria LAeq 9hr 55dBA new rail corridor
- Night-time noise criteria LAeq 9hr 60dBA upgrading existing rail corridor
- Night-time noise criteria LA max 80dBA new rail corridor
- Night-time noise criteria LA max 85dBA upgrading existing rail corridor

**ARTC** **InlandRail**

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NARROMINE TO NARRABRI

Year 2025 Night-time Rail Noise Levels

APPENDIX D - Map 86 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4  
Date: 31-Jul-2020  
Author: JG

✗

Level Crossings

—

Proposal Extent

—

Crossing Loops

—

Rail Alignment/Centreline

—

Bridges and Viaducts

■

Sensitive Receivers

■

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 LAeq 9hr 55dBA new rail corridor

—

Night-time noise criteria LAeq 9hr 60dBA upgrading existing rail corridor

—

Night-time noise criteria LA max 80dBA new rail corridor

—

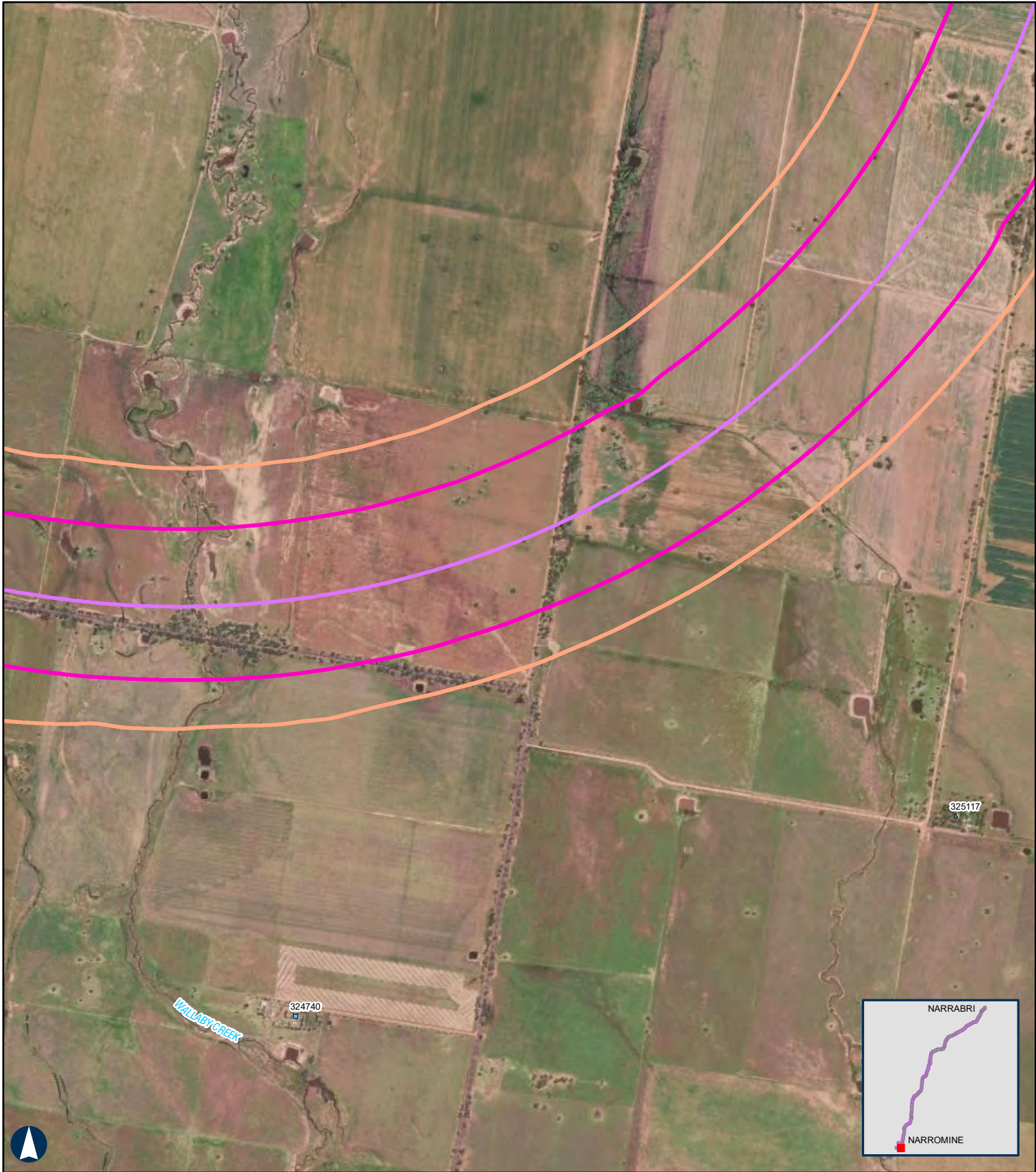
Night-time noise criteria LA max 85dBA upgrading existing rail corridor

ARTC

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**NARROMINE TO NARRABRI**

**Year 2025 Night-time Rail Noise Levels**

**APPENDIX D - Map 87 of 168**

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4  
Date: 31-Jul-2020  
Author: JG

Scale: 1:20,000

- ✗ Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

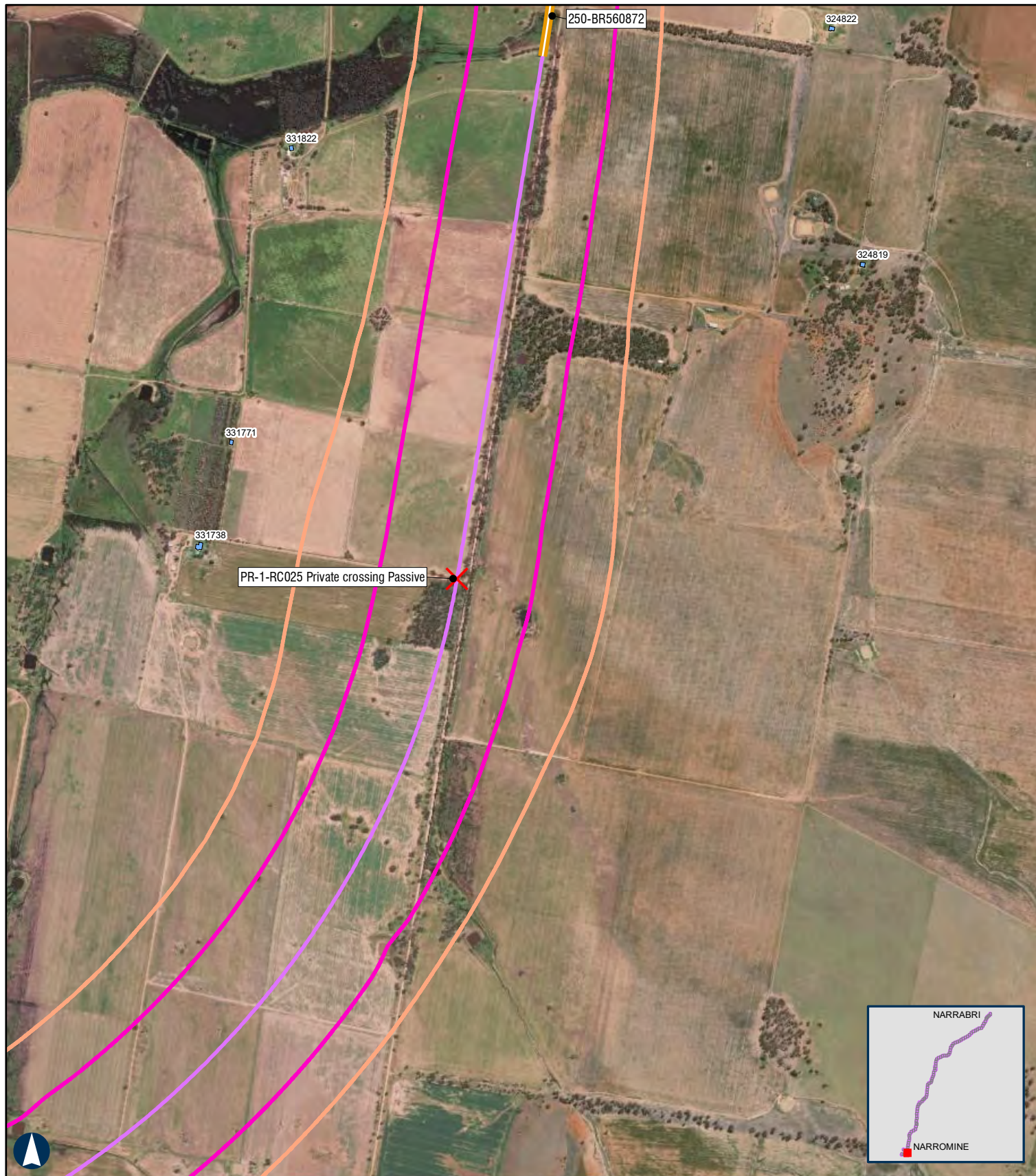
Noise contours are based on a set distance above the local terrain level of 2.4m.

- Night-time noise criteria LAeq 9hr 55dBA new rail corridor
- Night-time noise criteria LAeq 9hr 60dBA upgrading existing rail corridor
- Night-time noise criteria LA max 80dBA new rail corridor
- Night-time noise criteria LA max 85dBA upgrading existing rail corridor



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## NARROMINE TO NARRABRI

## Year 2025 Night-time Rail Noise Levels

## APPENDIX D - Map 88 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4

Scale: 1:20,000

Date: 31-Jul-2020

Author: JG

- X Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

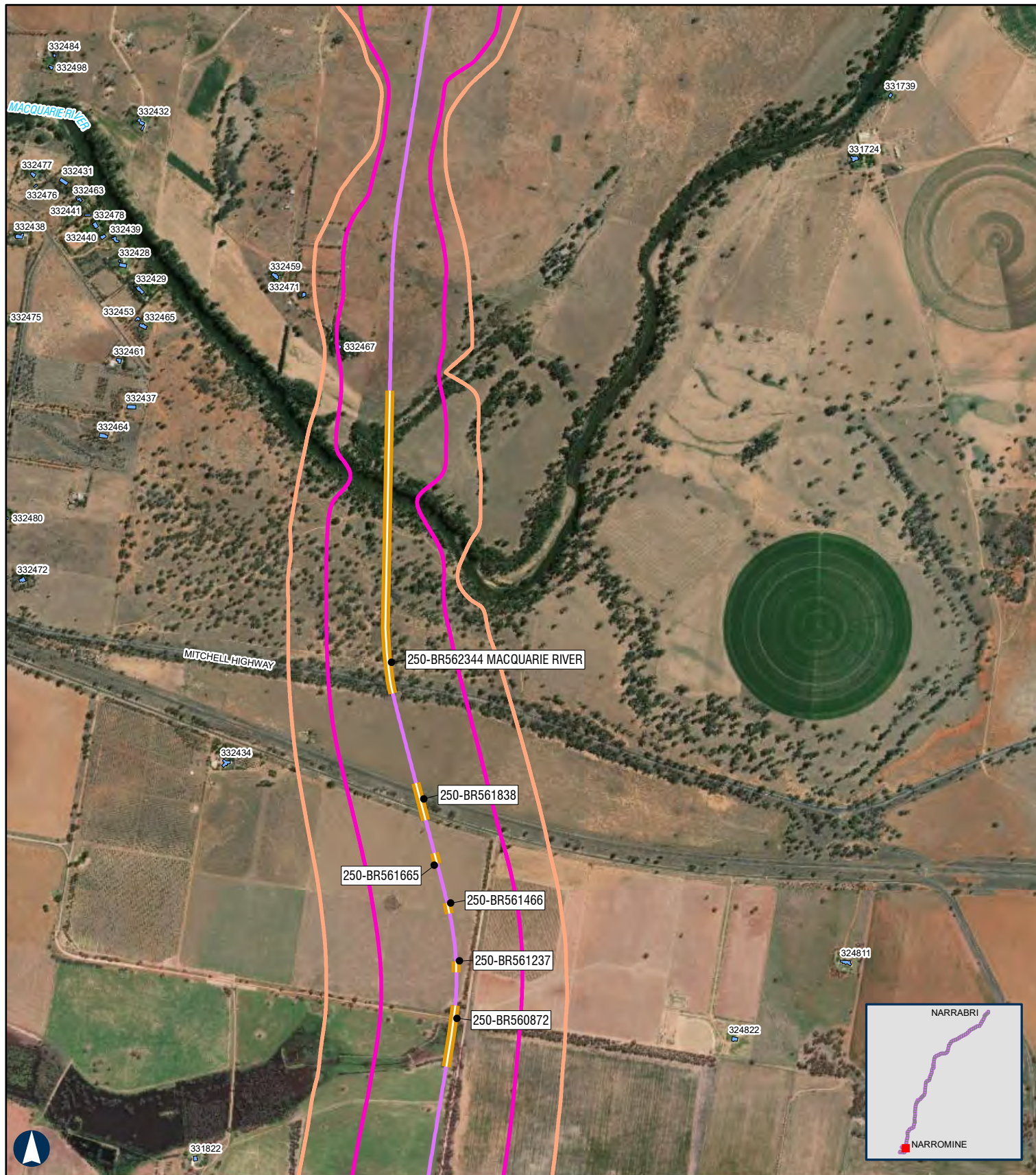
Noise contours are based on a set distance above the local terrain level of 2.4m.

- Night-time noise criteria LAeq 9hr 55dBA new rail corridor
- Night-time noise criteria LAeq 9hr 60dBA upgrading existing rail corridor
- Night-time noise criteria LA max 80dBA new rail corridor
- Night-time noise criteria LA max 85dBA upgrading existing rail corridor

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## NARROMINE TO NARRABRI

## Year 2025 Night-time Rail Noise Levels

## APPENDIX D - Map 89 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4

Scale: 1:20,000

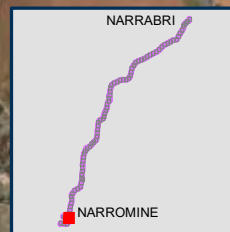
Date: 31-Jul-2020

Author: JG

- ✗ Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

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

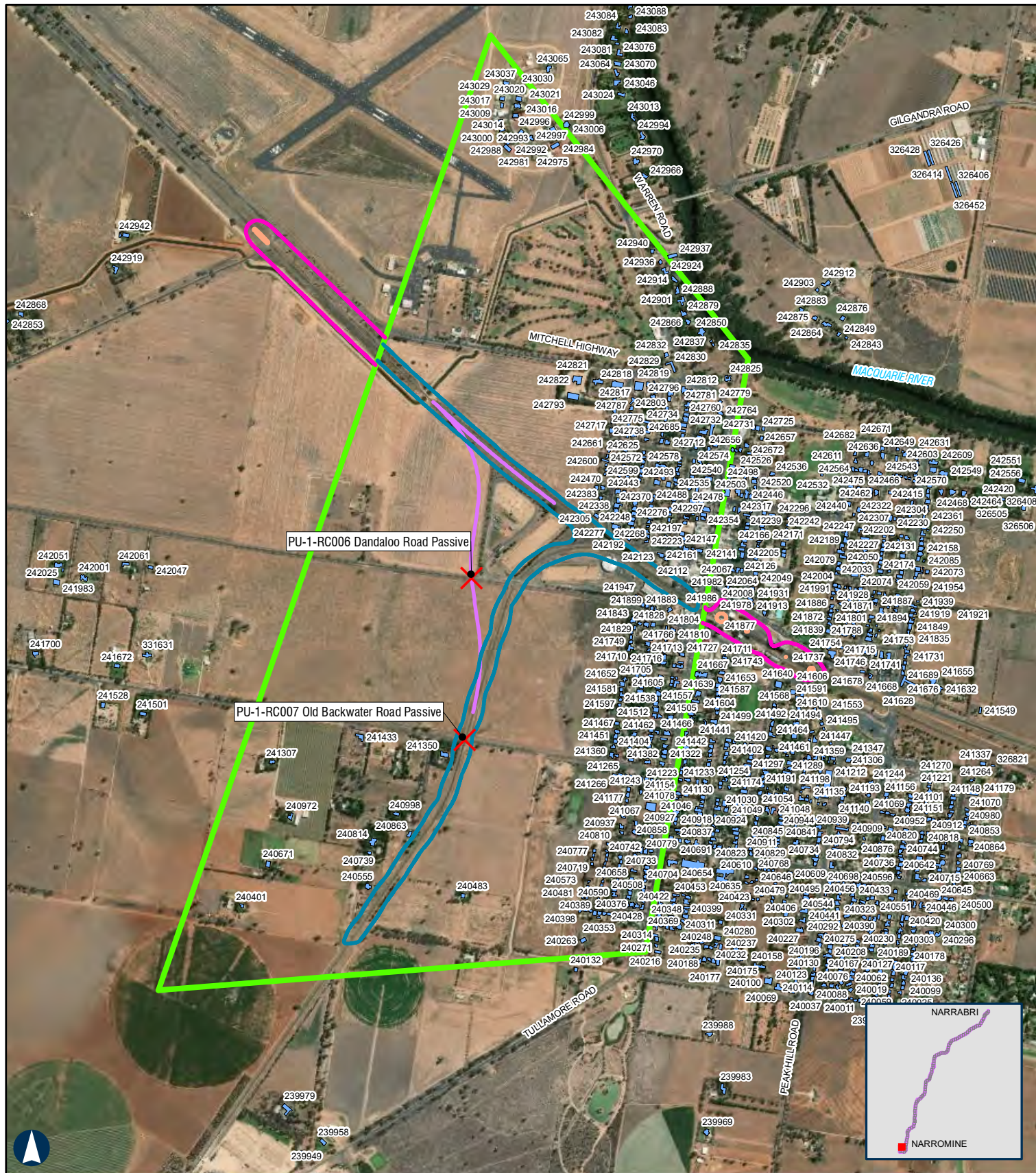
- Night-time noise criteria LAeq 9hr 55dBA new rail corridor
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- Night-time noise criteria LA max 85dBA upgrading existing rail corridor



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## NARROMINE TO NARRABRI

## Year 2025 Night-time Rail Noise Levels

## APPENDIX D - Map 90 of 168

500 m

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- X Level Crossings
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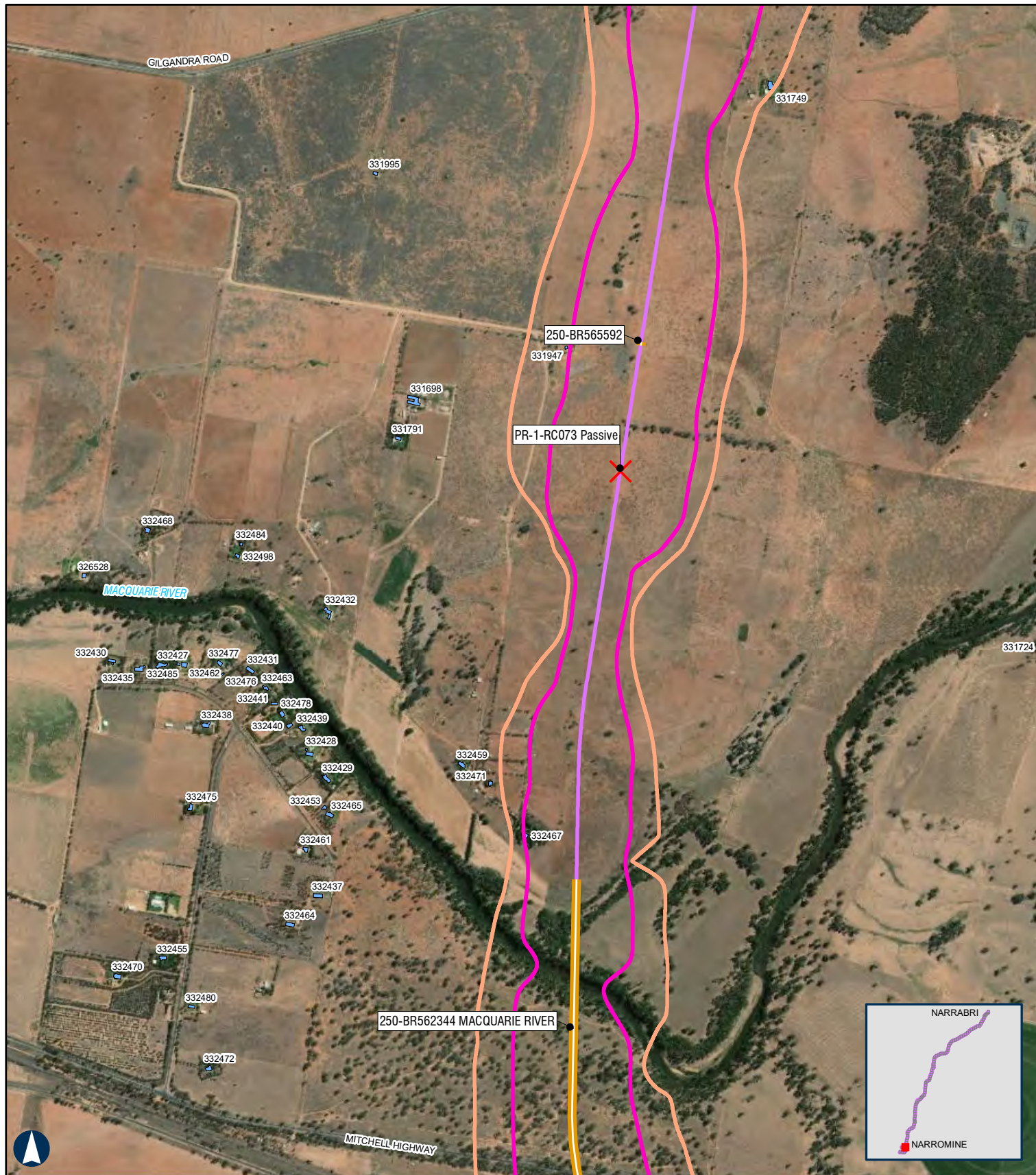
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## NARROMINE TO NARRABRI

## Year 2025 Night-time Rail Noise Levels

## APPENDIX D - Map 91 of 168

500 m

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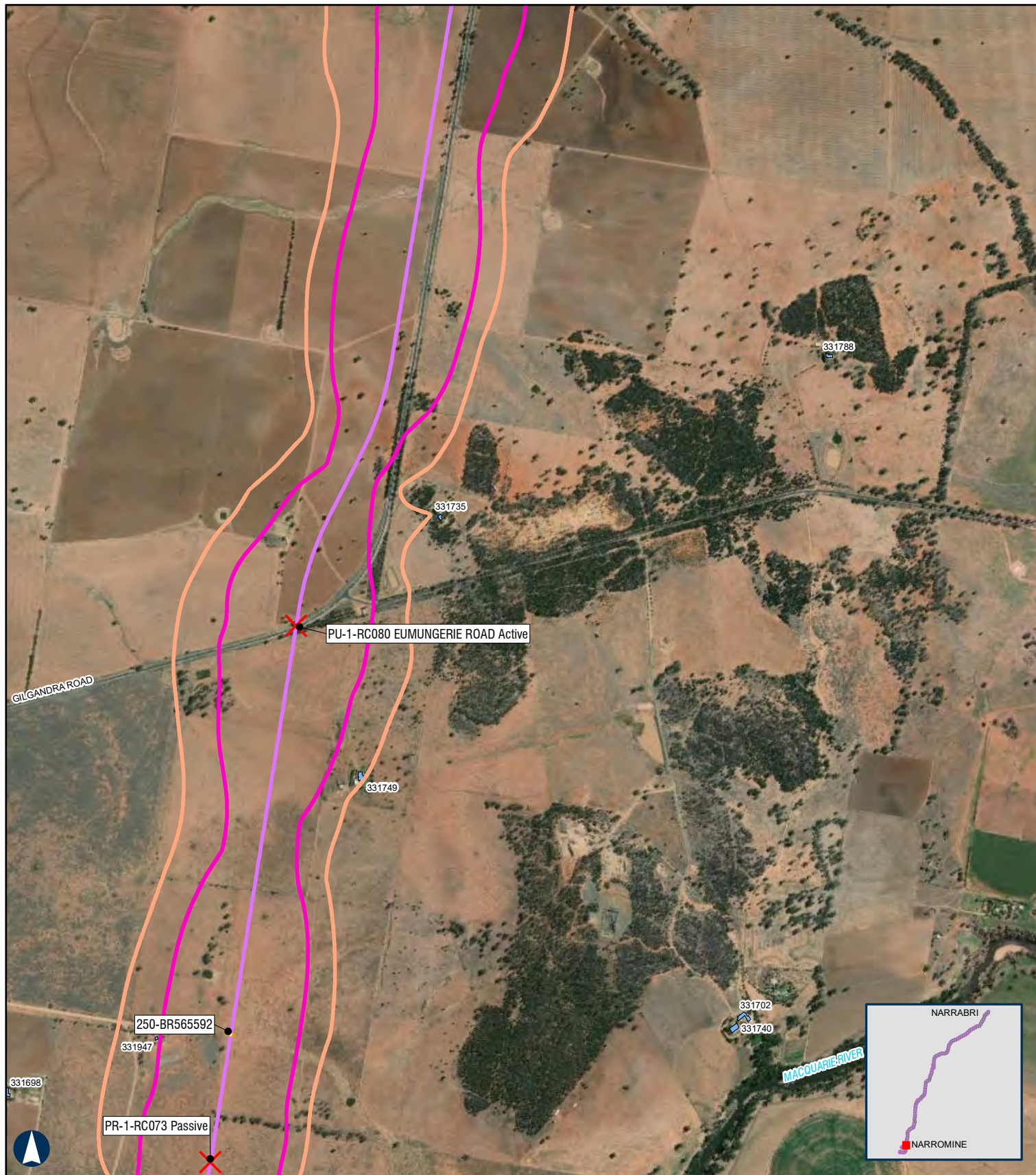
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## Year 2025 Night-time Rail Noise Levels

## APPENDIX D - Map 92 of 168

500 m

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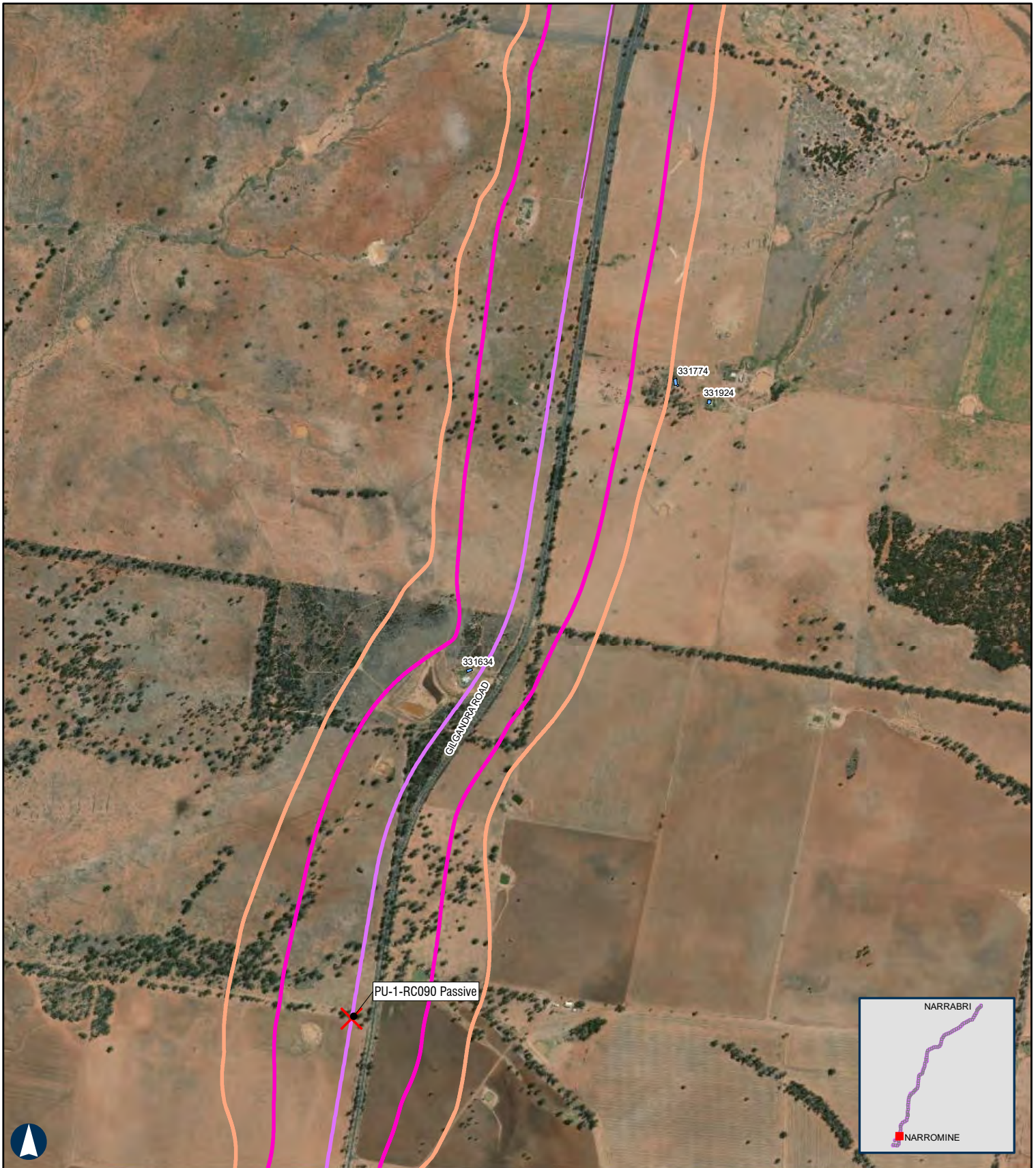
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## NARROMINE TO NARRABRI

## Year 2025 Night-time Rail Noise Levels

## APPENDIX D - Map 93 of 168

500 m

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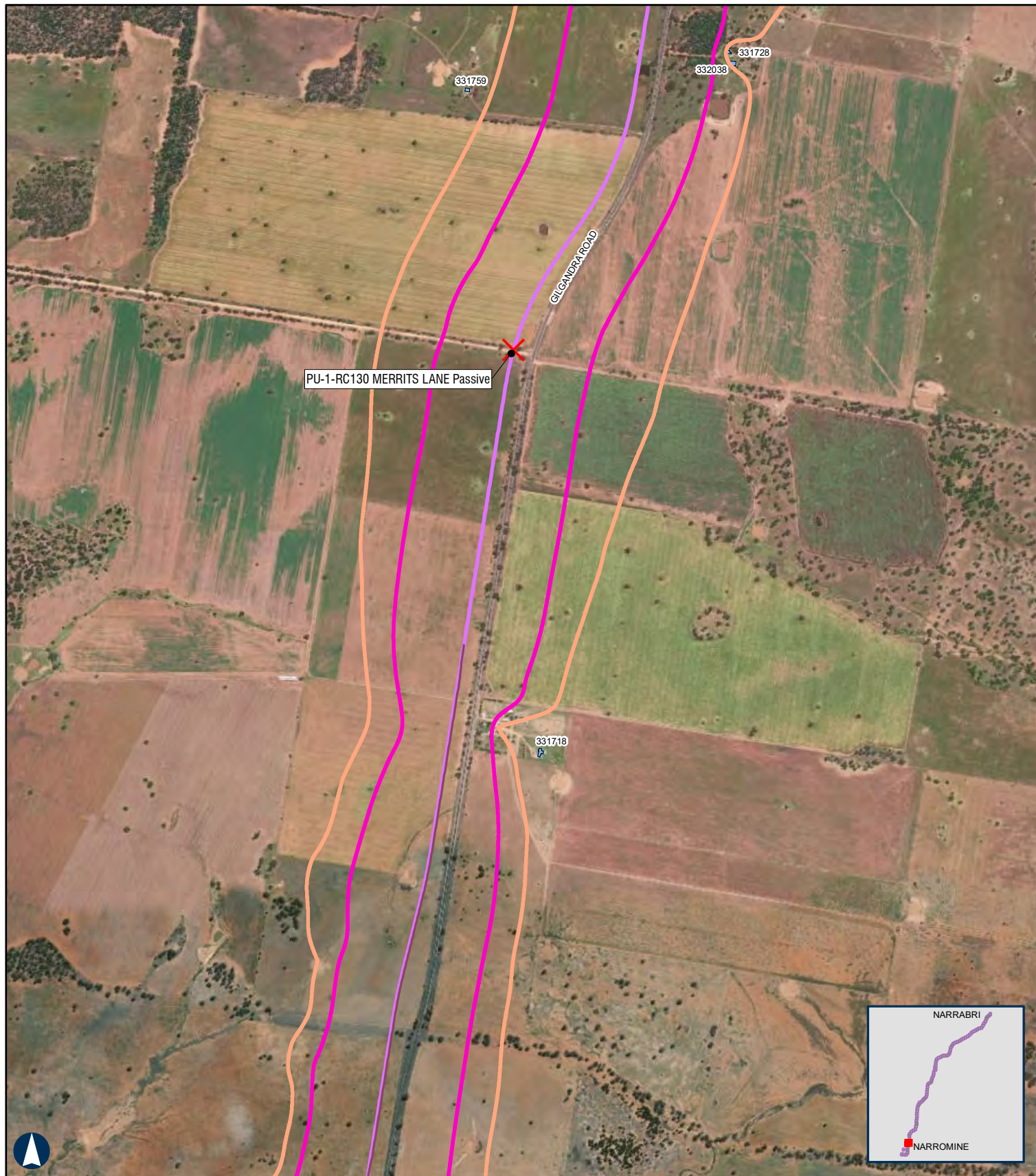
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## NARROMINE TO NARRABRI

## Year 2025 Night-time Rail Noise Levels

## APPENDIX D - Map 94 of 168

500 m

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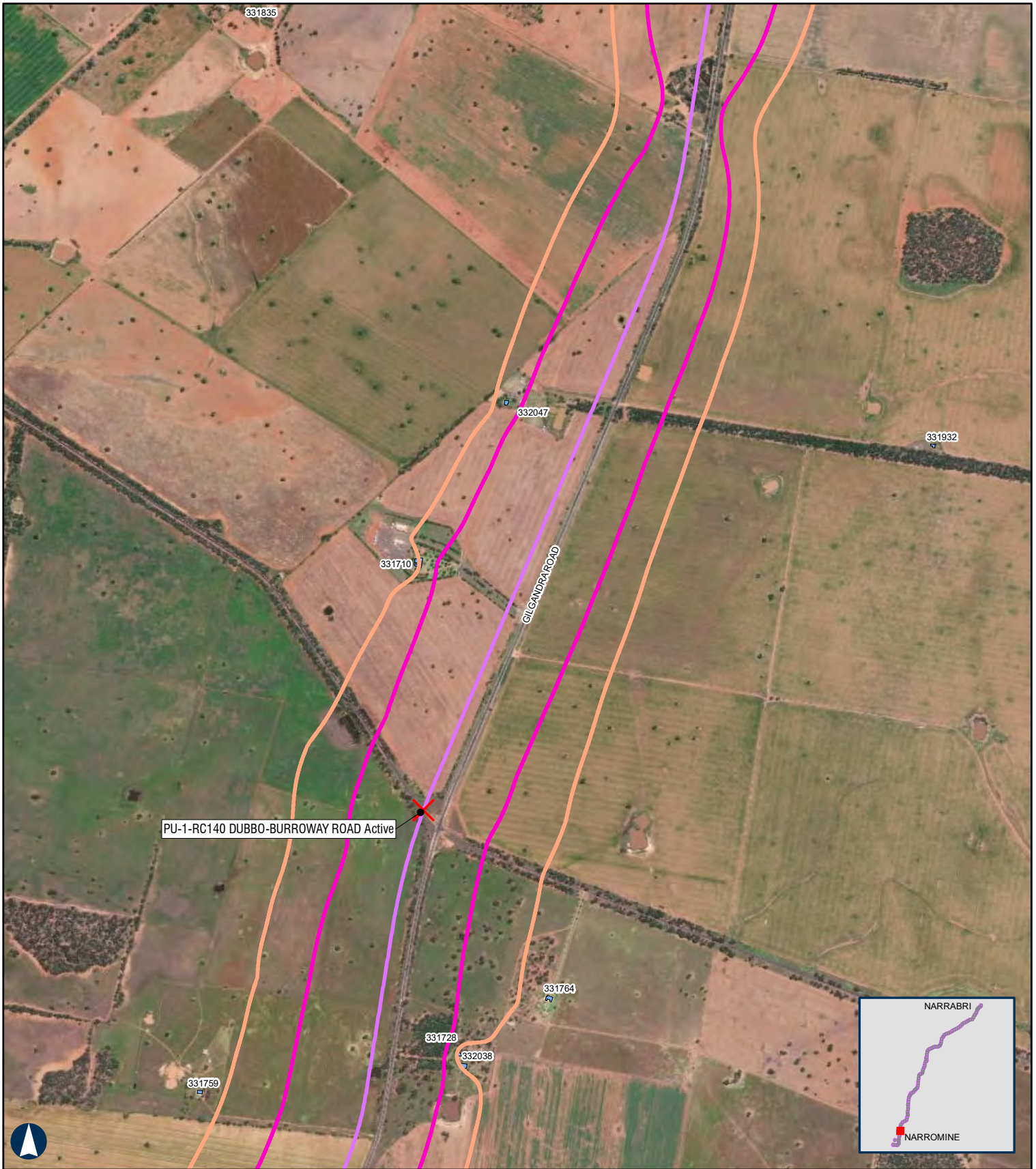
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## NARROMINE TO NARRABRI Year 2025 Night-time Rail Noise Levels

APPENDIX D - Map 95 of 168

500 m

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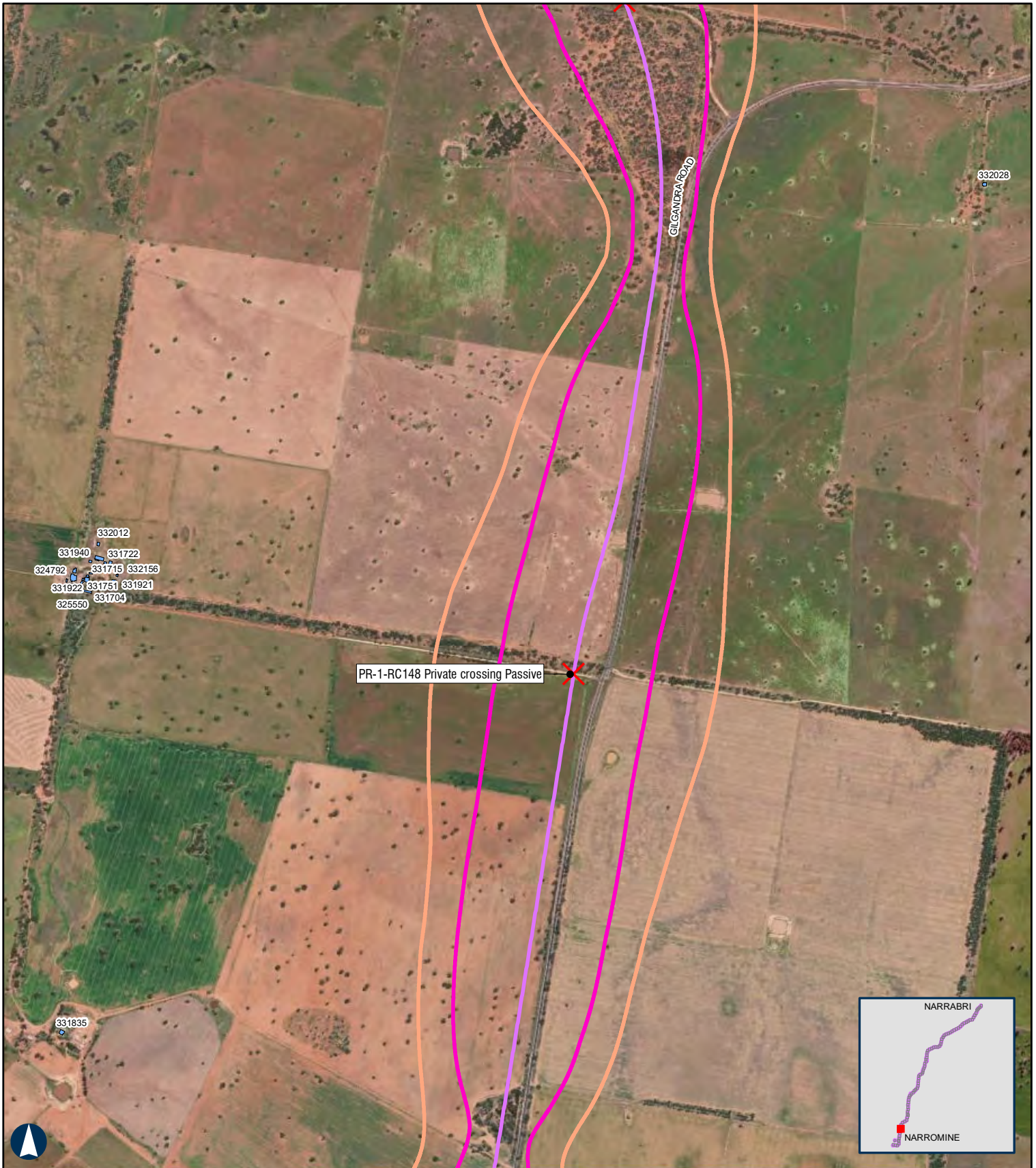
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**ARTC** **InlandRail**

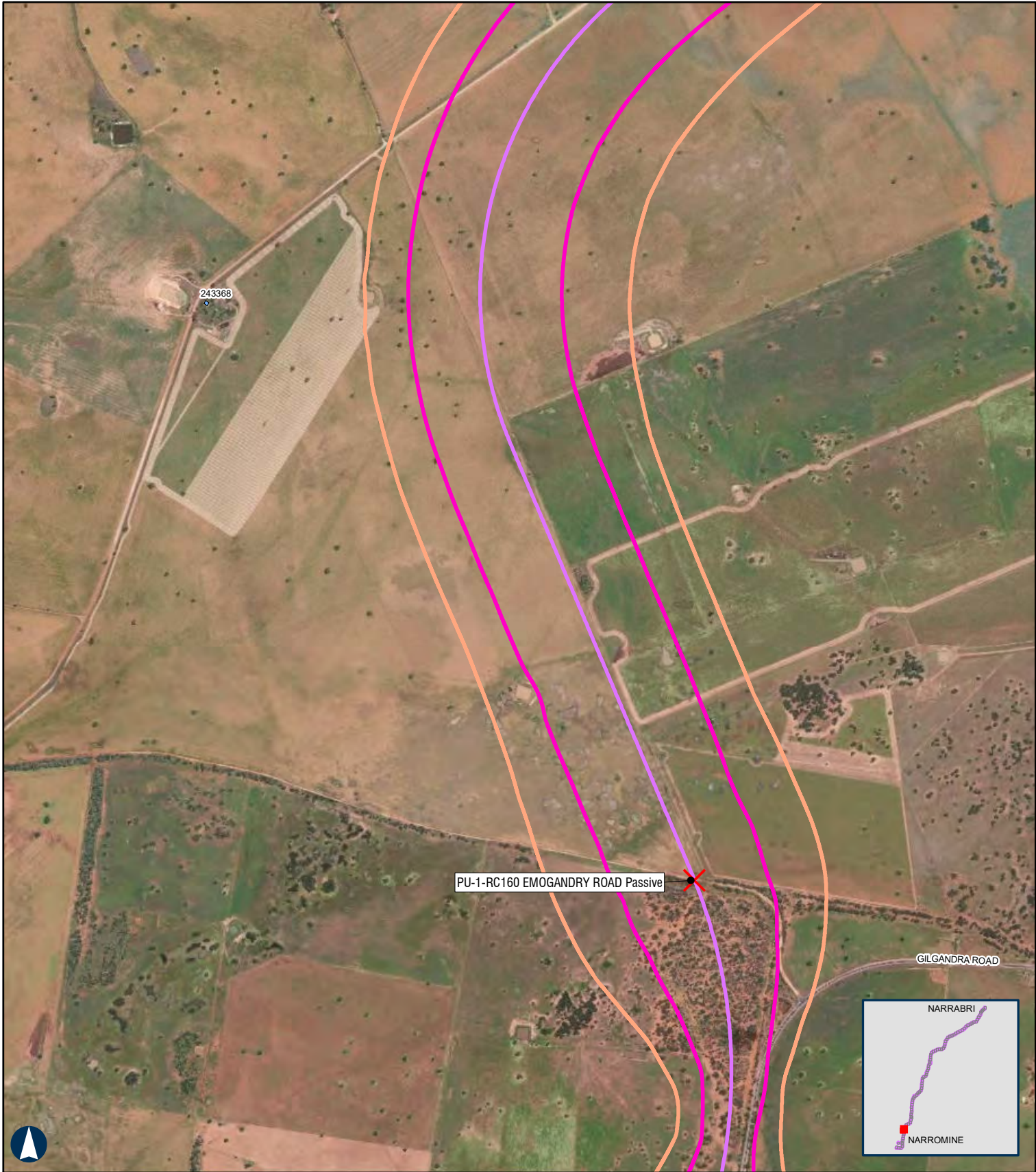
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| NARROMINE TO NARRABRI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | Year 2025 Night-time Rail Noise Levels                                                                                                                                                                                                                                                                   | APPENDIX D - Map 96 of 168                                                                                                                                                                                                                                                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>500 m</b><br>Coordinate System: GDA 1994 MGA Zone 55<br><small>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. 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.</small> |  | ✕ Level Crossings<br>— Proposal Extent<br>— Crossing Loops<br>— Rail Alignment/Centreline<br>— Bridges and Viaducts<br>■ Sensitive Receivers<br>■ Noise Assessment Area – Upgrading Existing Railway<br><small>Noise contours are based on a set distance above the local terrain level of 2.4m.</small> | — Night-time noise criteria LAeq 9hr 55dBA new rail corridor<br>— Night-time noise criteria LAeq 9hr 60dBA upgrading existing rail corridor<br>— Night-time noise criteria LA max 80dBA new rail corridor<br>— Night-time noise criteria LA max 85dBA upgrading existing rail corridor |
| Paper: A4<br>Date: 31-Jul-2020<br>Author: JG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  | <div> </div> <p>The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation, in partnership with the private sector.</p>                                                                                                                                           |                                                                                                                                                                                                                                                                                        |





## NARROMINE TO NARRABRI

## Year 2025 Night-time Rail Noise Levels

## APPENDIX D - Map 97 of 168

500 m

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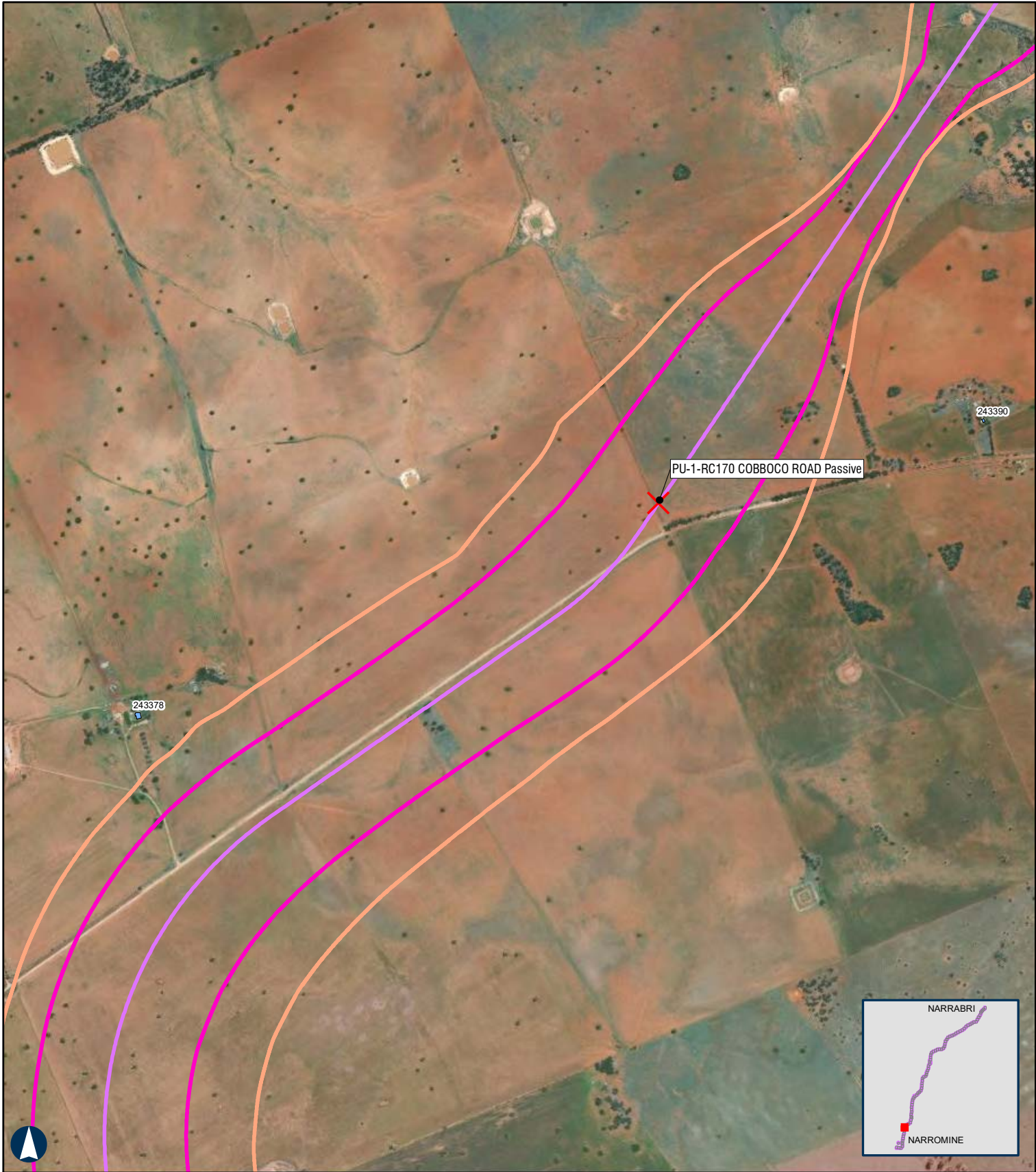
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# NARROMINE TO NARRABRI

## Year 2025 Night-time Rail Noise Levels

## APPENDIX D - Map 98 of 168

500 m

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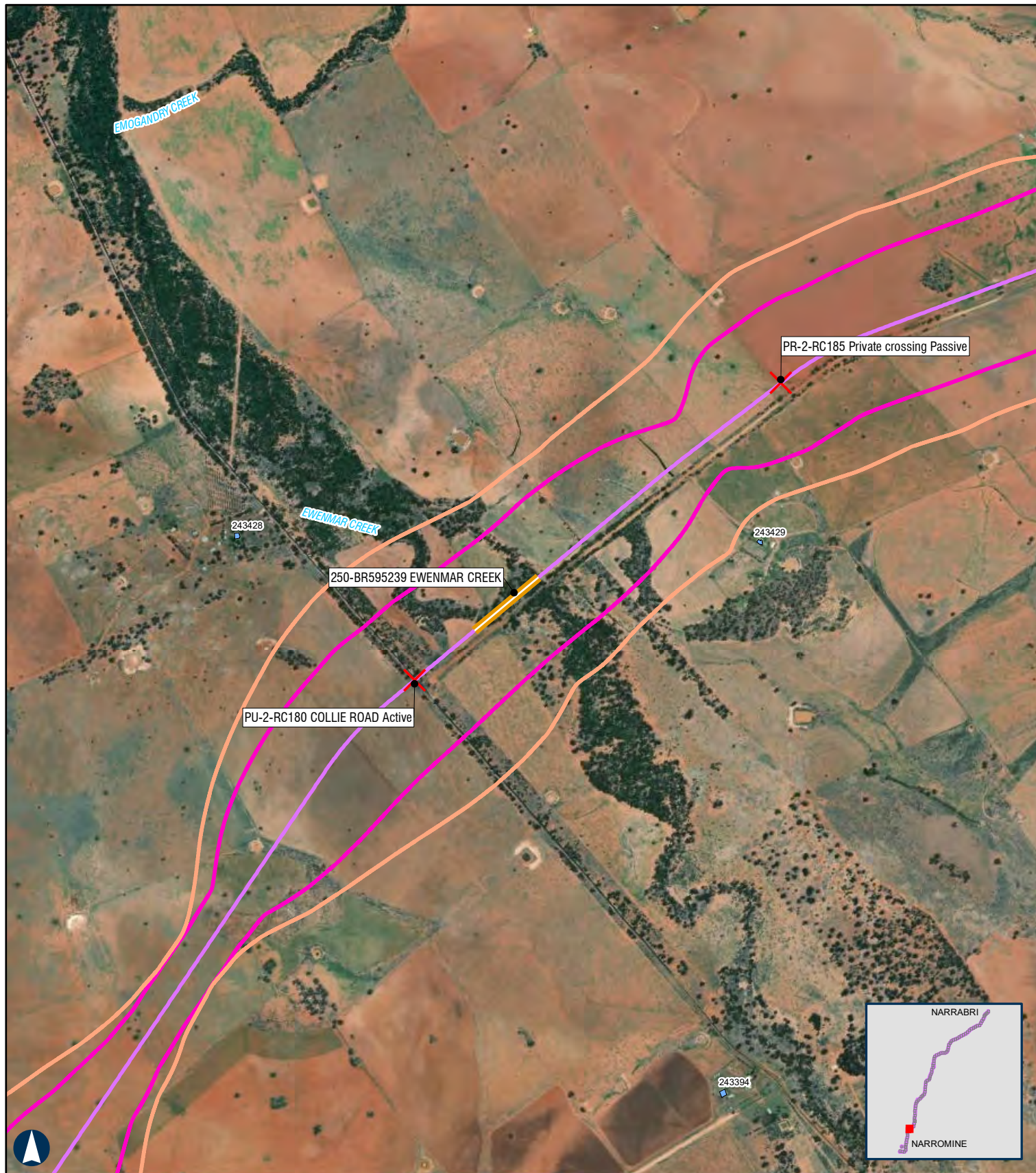
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## NARROMINE TO NARRABRI

## Year 2025 Night-time Rail Noise Levels

## APPENDIX D - Map 99 of 168

500 m

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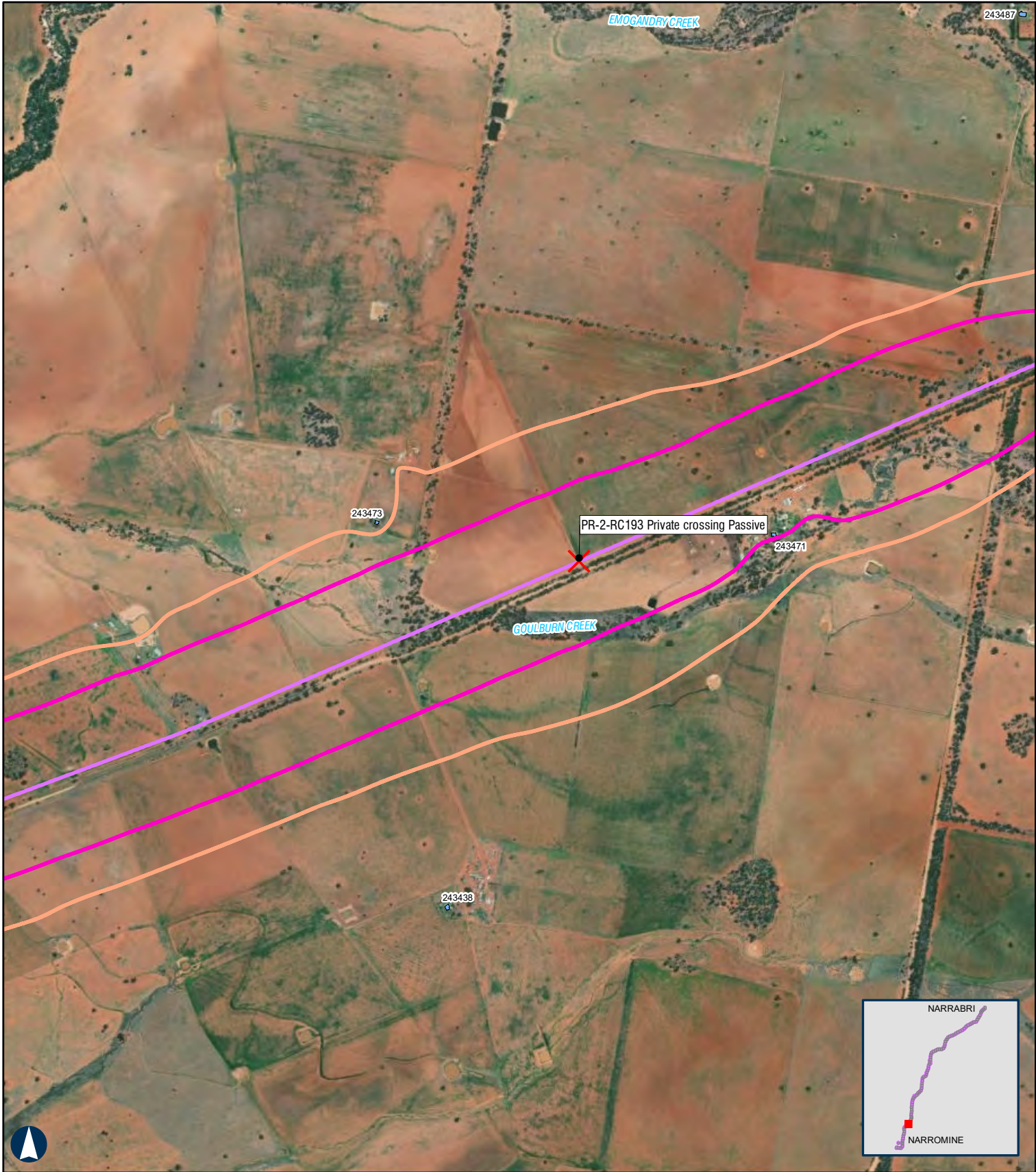
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NARROMINE TO NARRABRI

Year 2025 Night-time Rail Noise Levels

APPENDIX D - Map 100 of 168

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✗

Level Crossings

—

Proposal Extent

—

Crossing Loops

—

Rail Alignment/Centreline

—

Bridges and Viaducts

■

Sensitive Receivers

—

Noise Assessment Area – Upgrading Existing Railway

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

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Night-time noise criteria LAeq 9hr 55dBA new rail corridor

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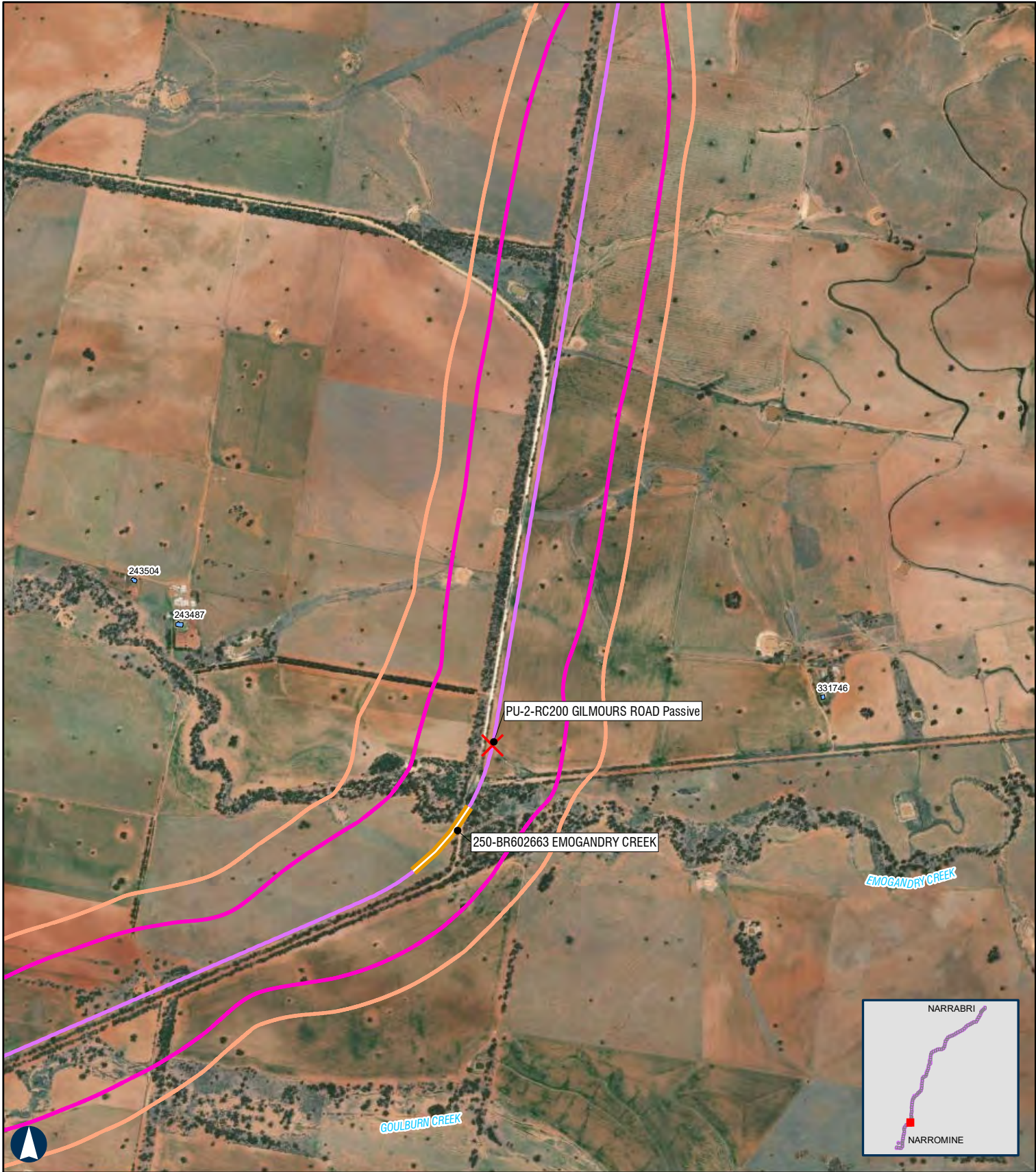
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NARROMINE TO NARRABRI

Year 2025 Night-time Rail Noise Levels

APPENDIX D - Map 101 of 168

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Level Crossings

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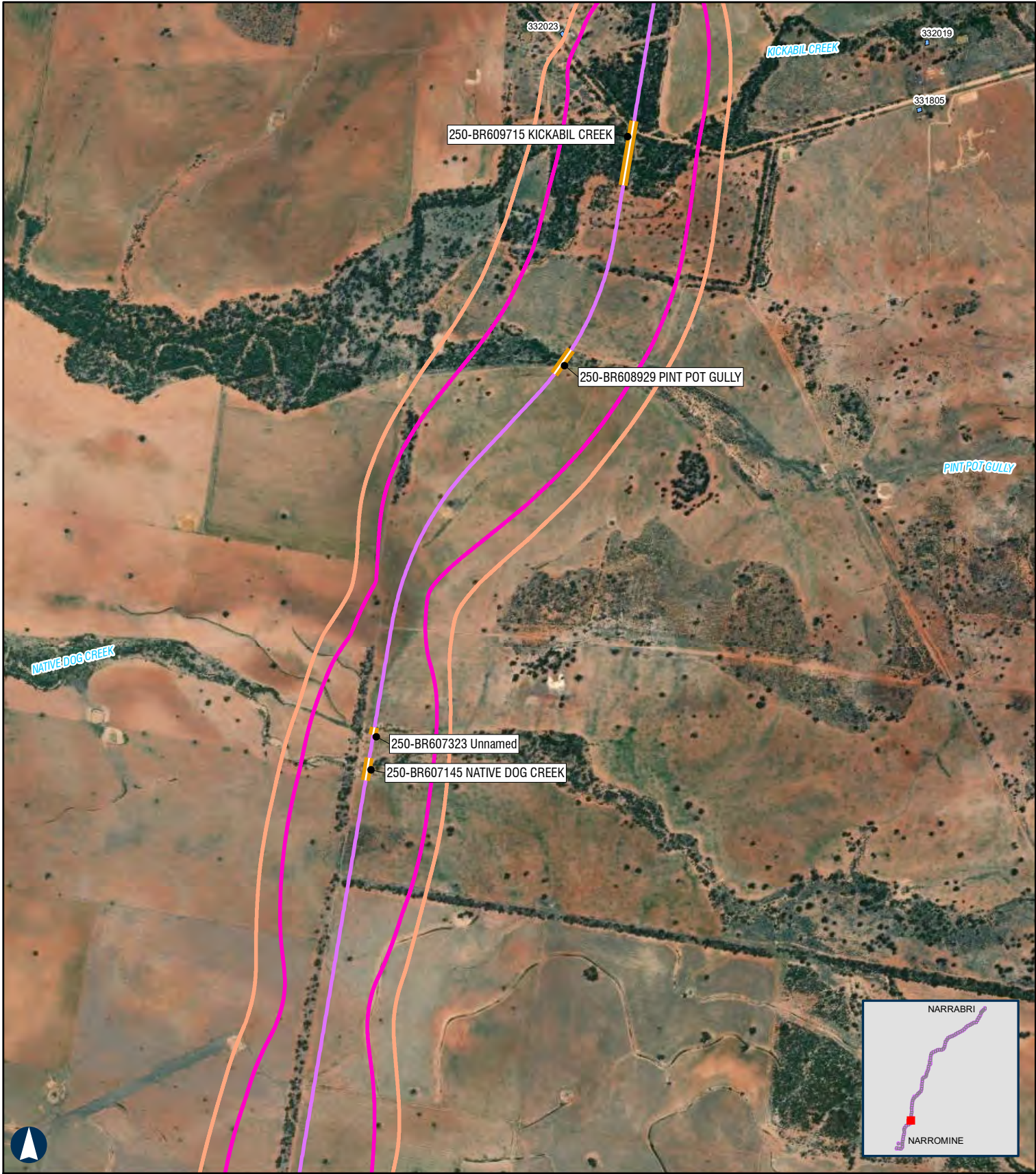
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**NARROMINE TO NARRABRI**

**Year 2025 Night-time Rail Noise Levels**

**APPENDIX D - Map 102 of 168**

500 m

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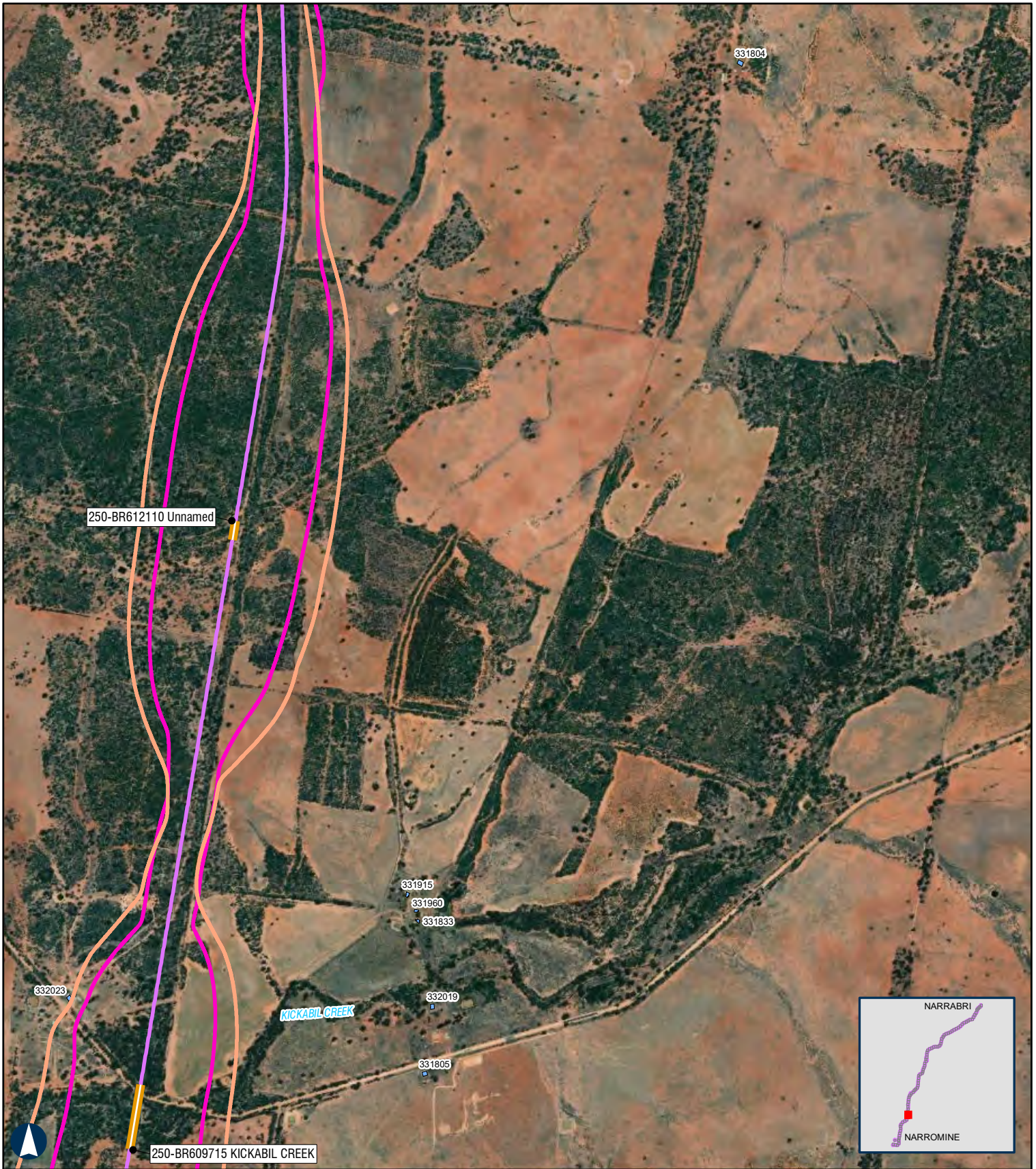
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## NARROMINE TO NARRABRI

## Year 2025 Night-time Rail Noise Levels

## APPENDIX D - Map 103 of 168

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## Year 2025 Night-time Rail Noise Levels

## APPENDIX D - Map 104 of 168

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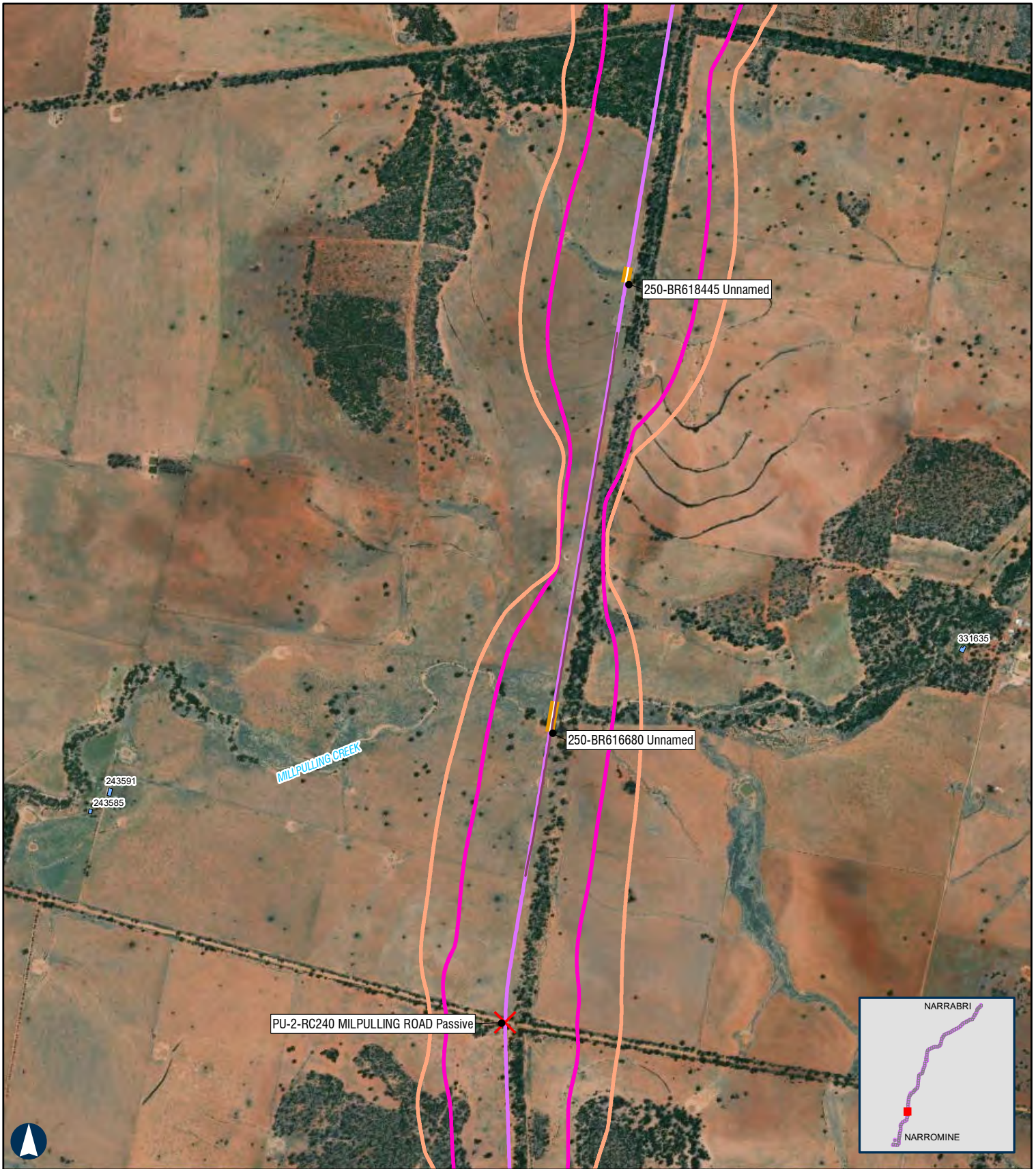
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## NARROMINE TO NARRABRI

## Year 2025 Night-time Rail Noise Levels

## APPENDIX D - Map 105 of 168

500 m

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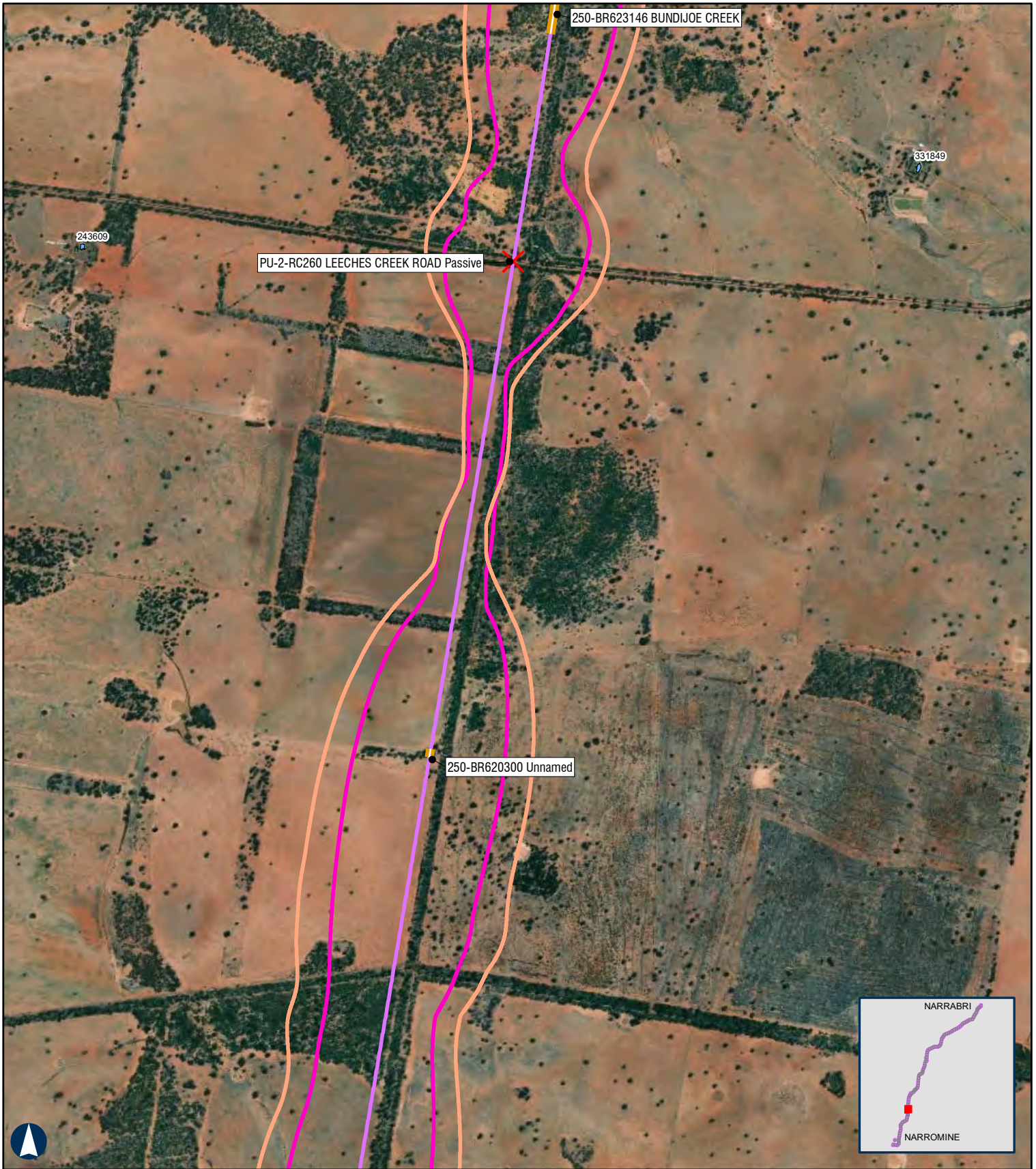
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## NARROMINE TO NARRABRI

## Year 2025 Night-time Rail Noise Levels

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Paper: A4

Scale: 1:20,000

Date: 31-Jul-2020

Author: JG

- Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

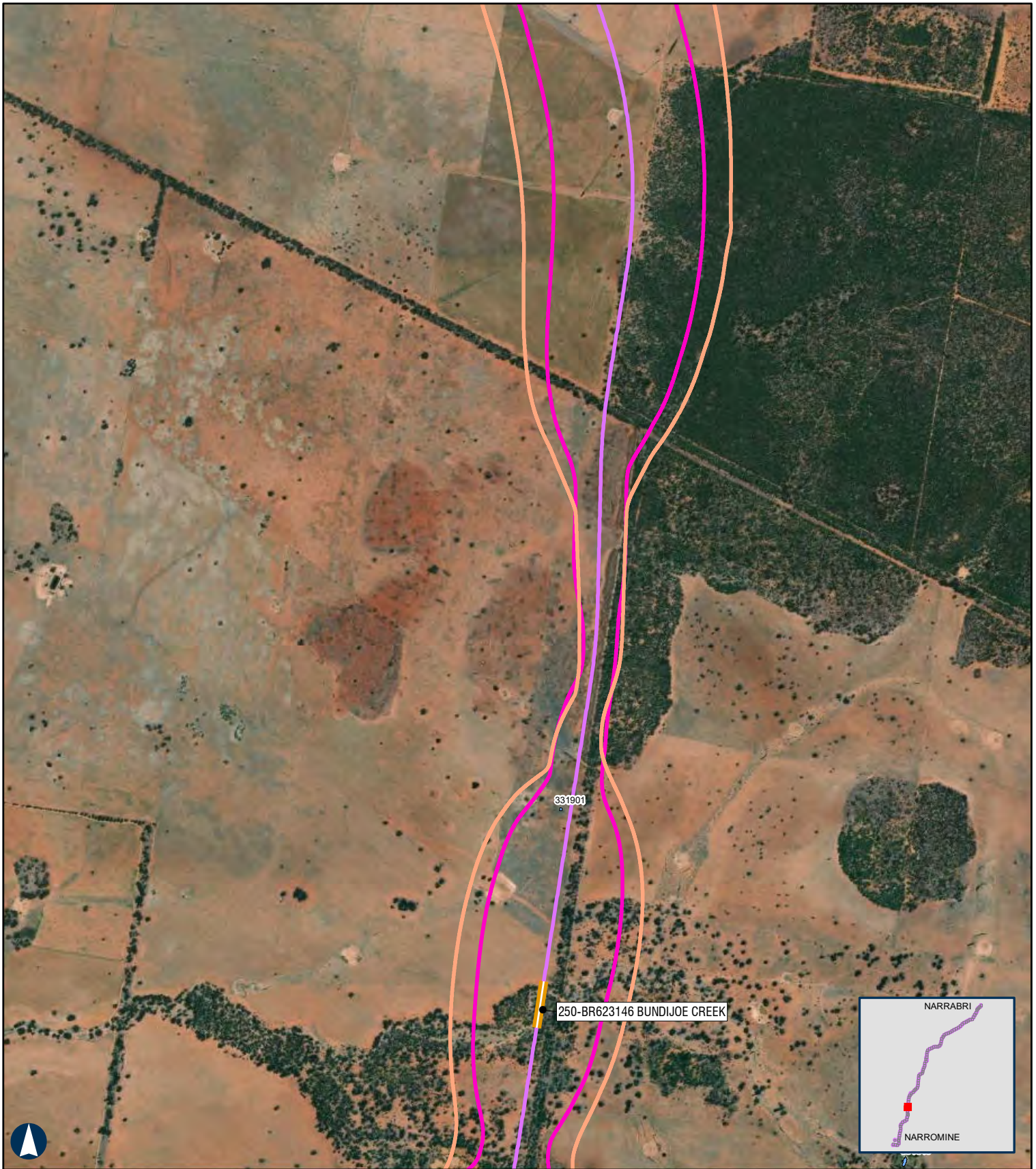
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- Night-time noise criteria LAeq 9hr 55dBA new rail corridor
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## NARROMINE TO NARRABRI

## Year 2025 Night-time Rail Noise Levels

## APPENDIX D - Map 107 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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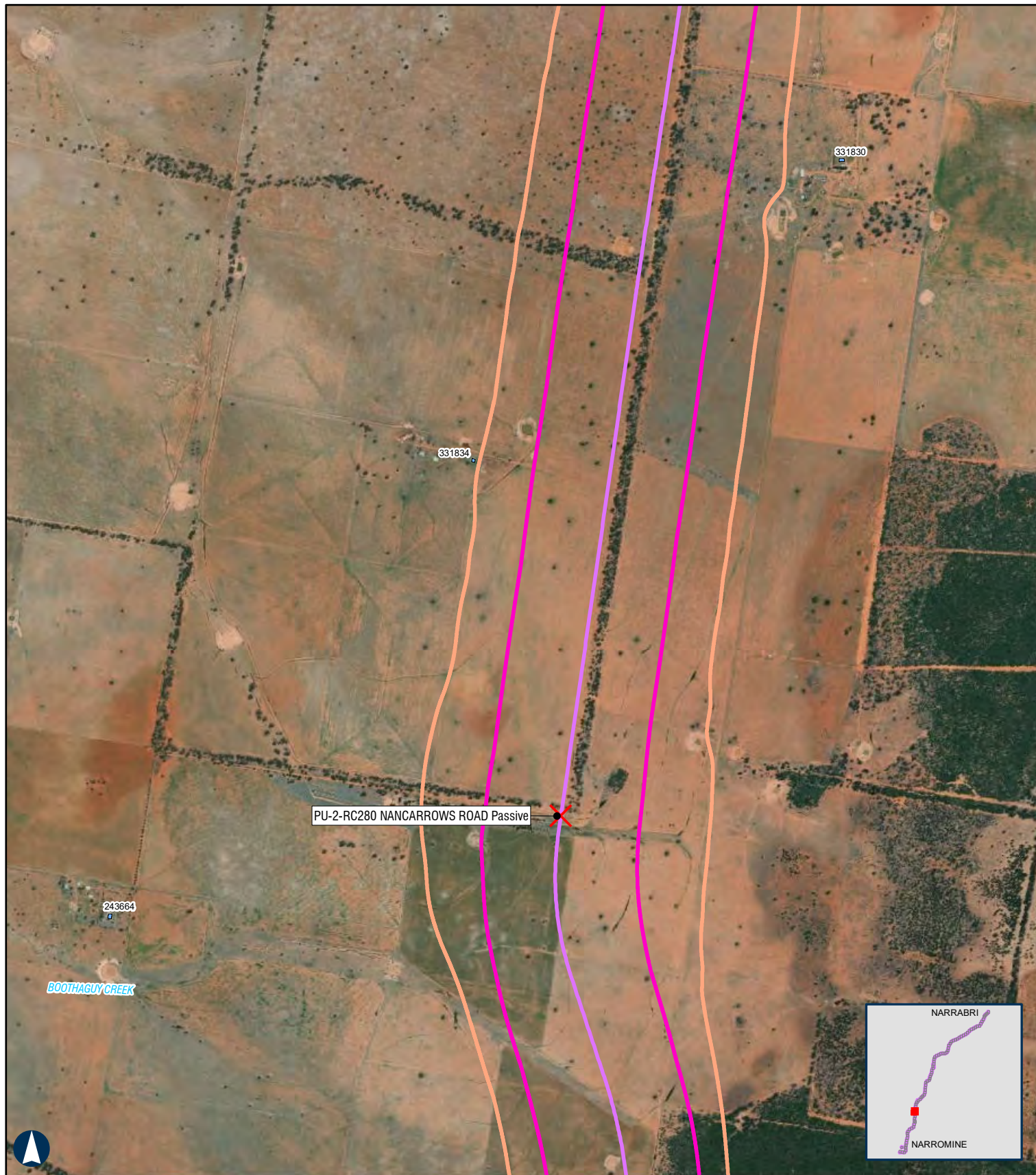
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## Year 2025 Night-time Rail Noise Levels

## APPENDIX D - Map 108 of 168

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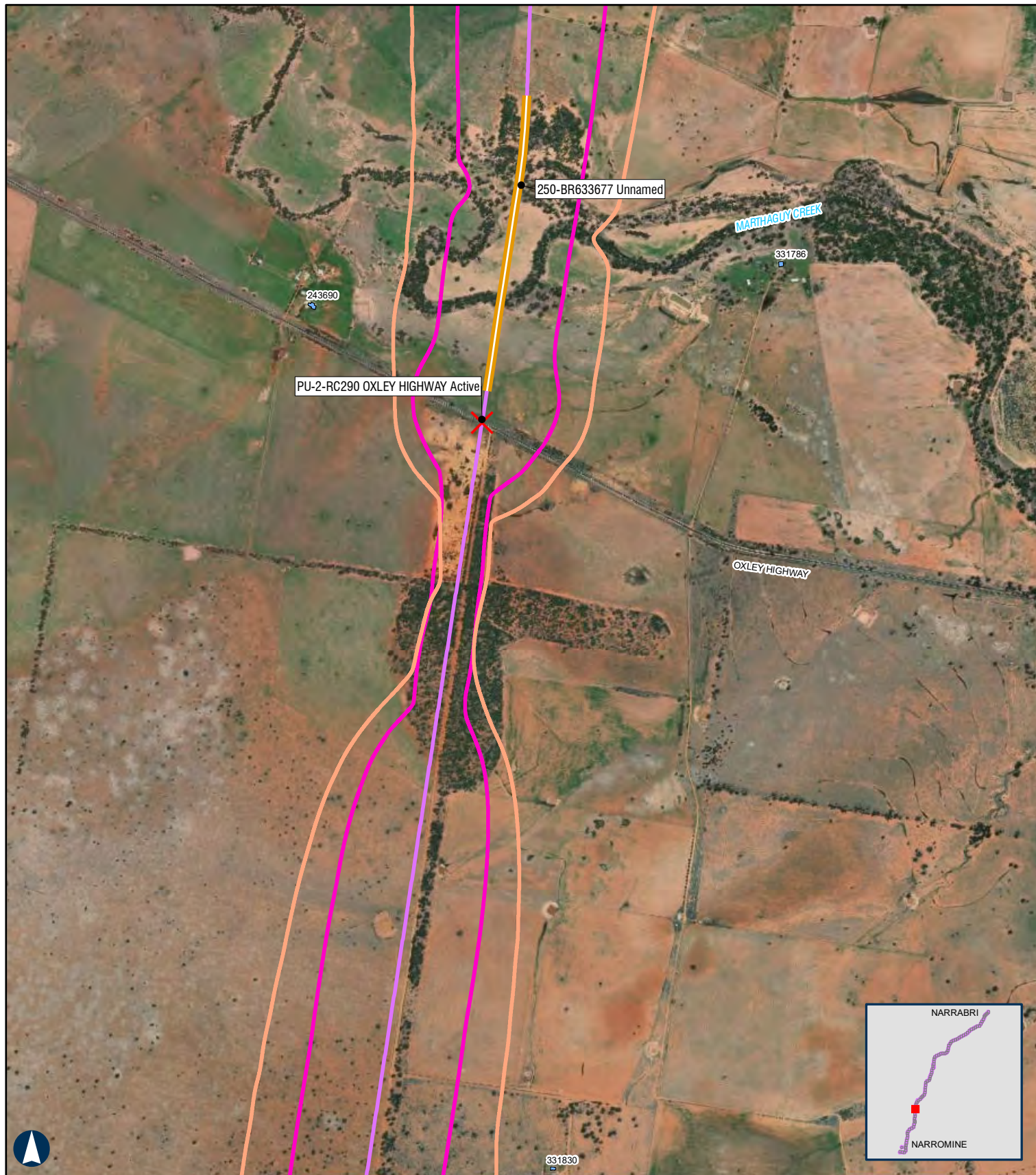
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## Year 2025 Night-time Rail Noise Levels

## APPENDIX D - Map 109 of 168

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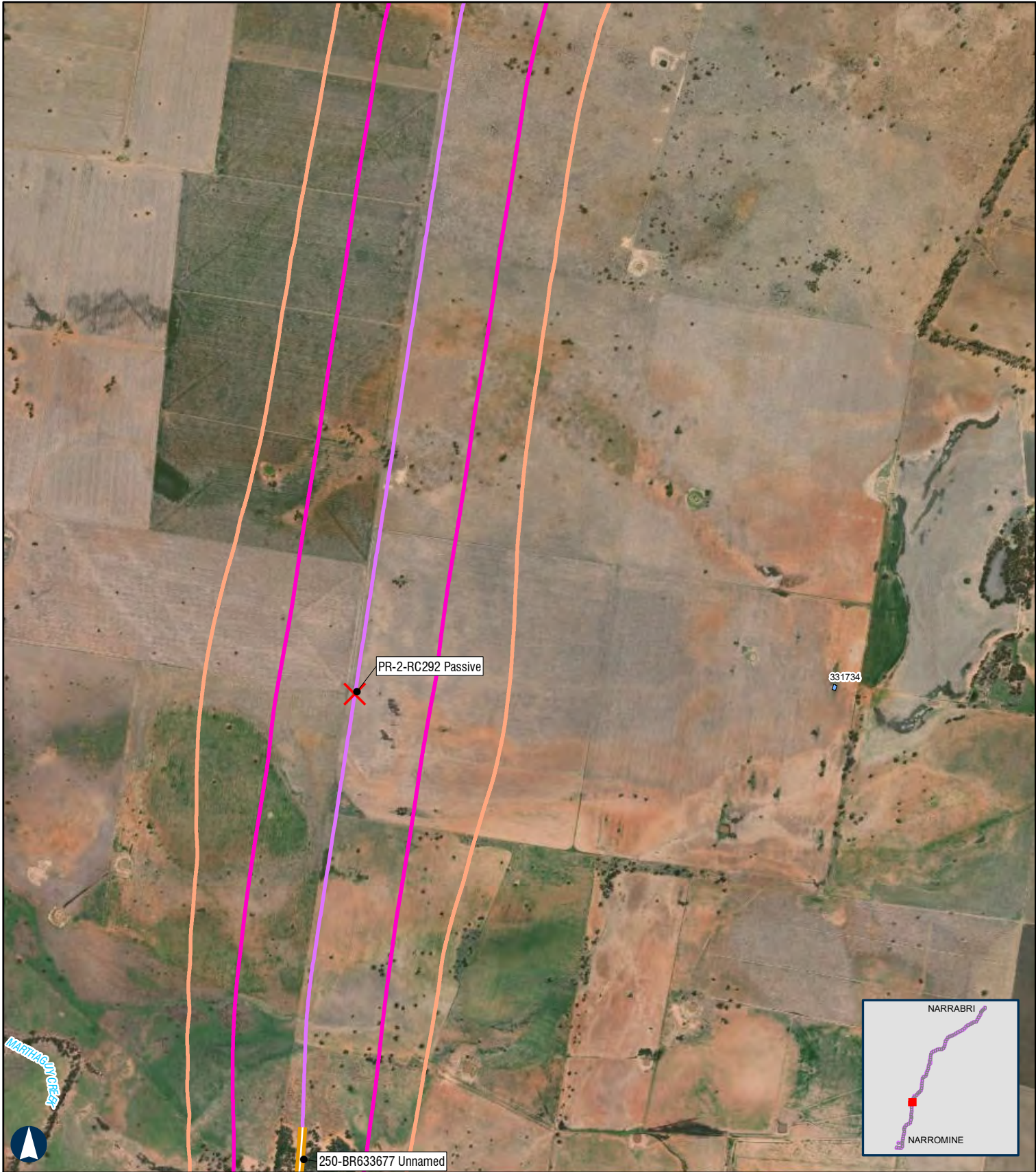
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## APPENDIX D - Map 110 of 168

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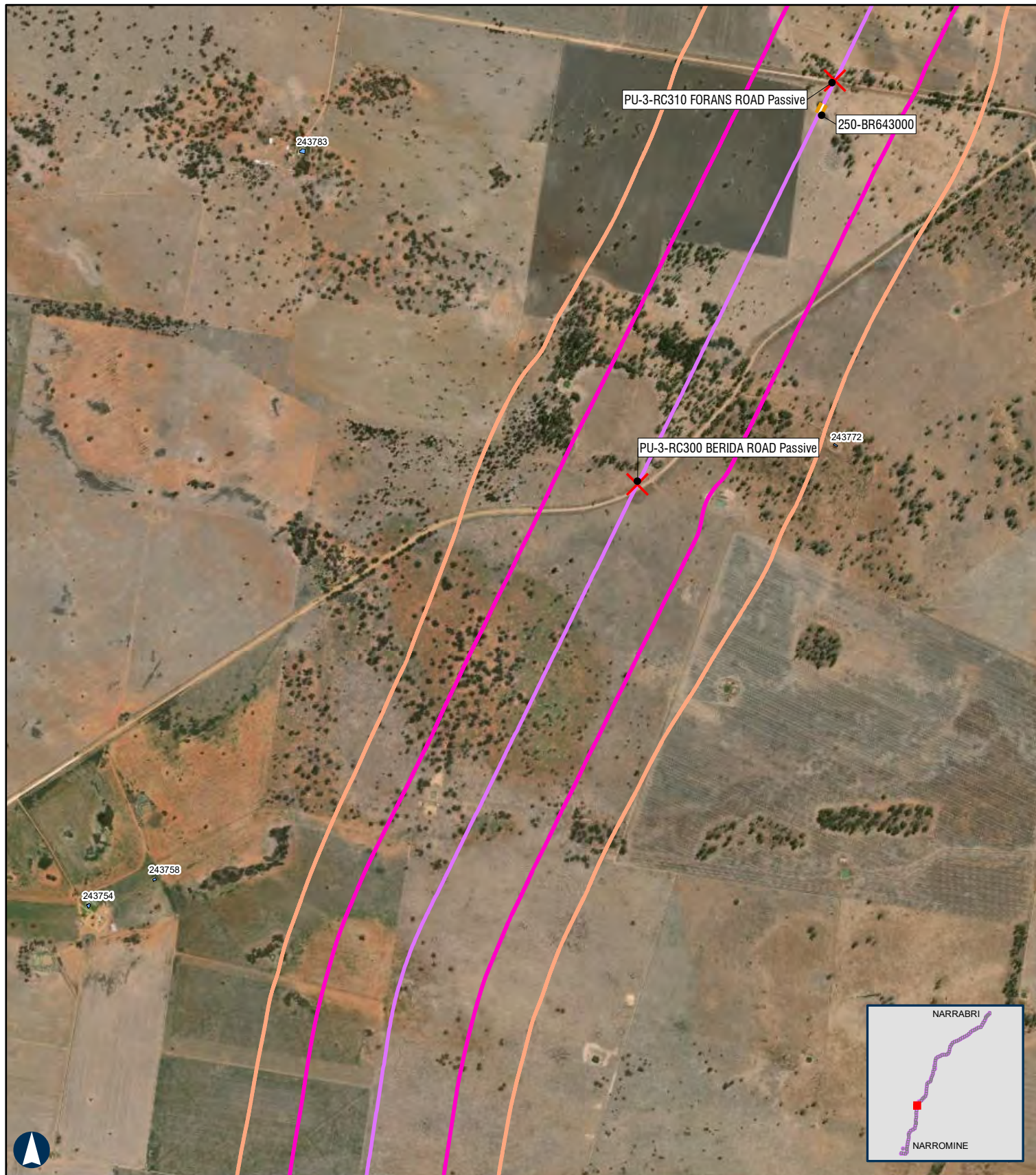
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## Year 2025 Night-time Rail Noise Levels

## APPENDIX D - Map 111 of 168

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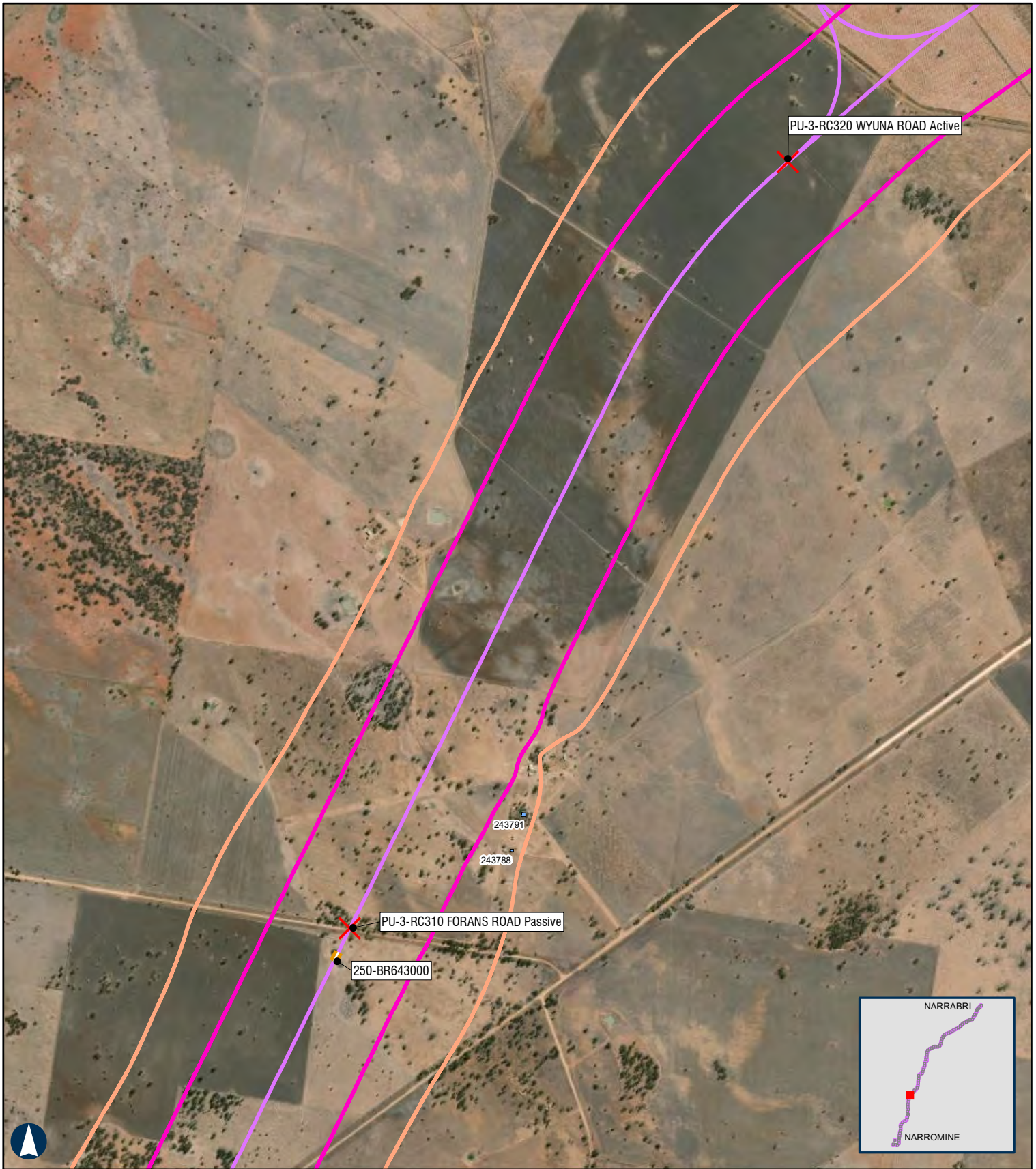
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## NARROMINE TO NARRABRI

## Year 2025 Night-time Rail Noise Levels

## APPENDIX D - Map 112 of 168

500 m

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- X Level Crossings
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- Bridges and Viaducts
- Sensitive Receivers
- ▭ Noise Assessment Area – Upgrading Existing Railway

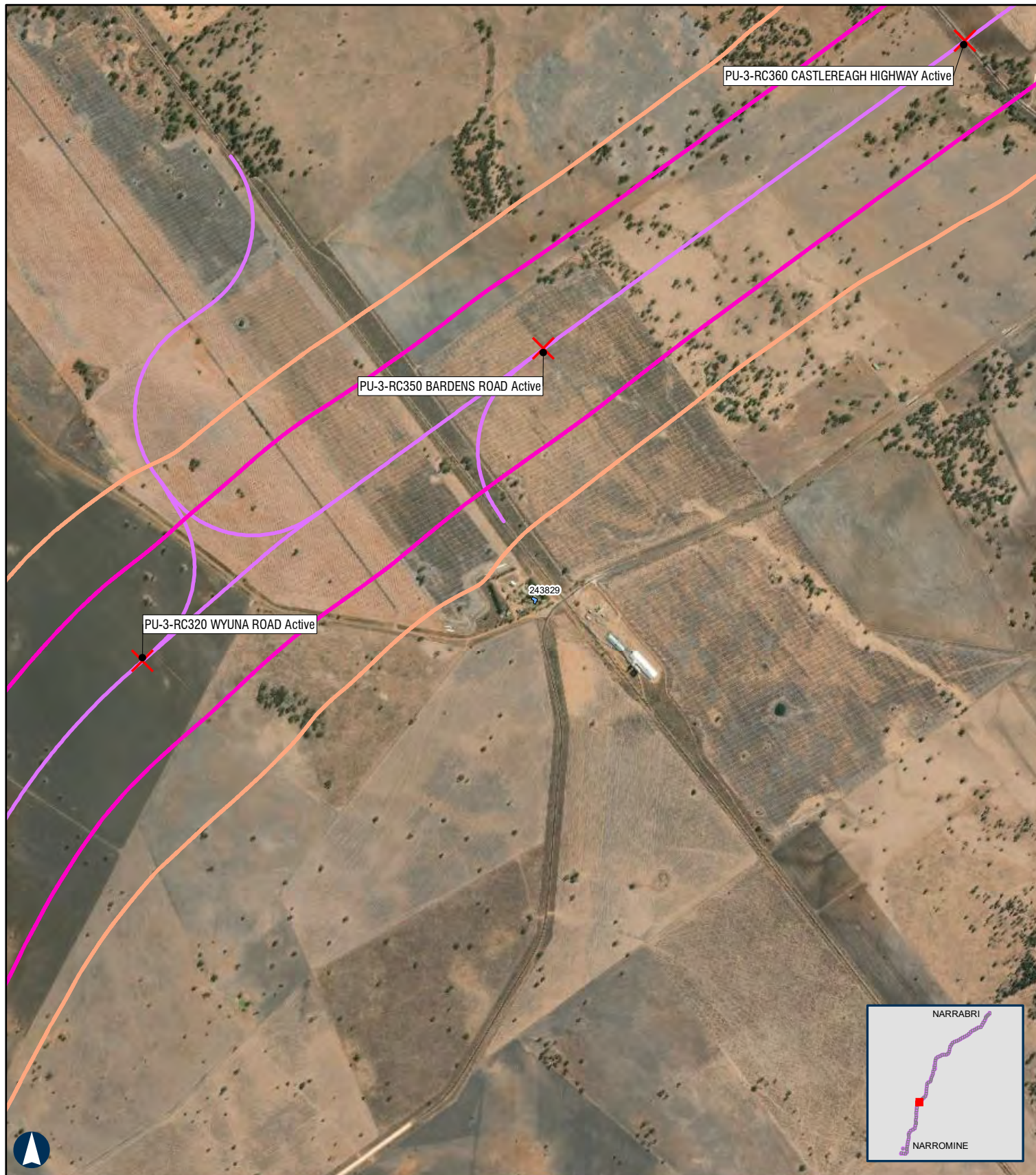
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## Year 2025 Night-time Rail Noise Levels

## APPENDIX D - Map 113 of 168

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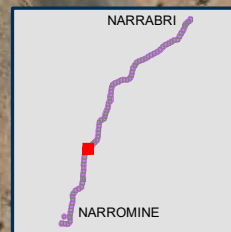
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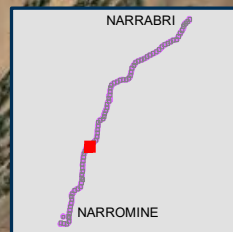
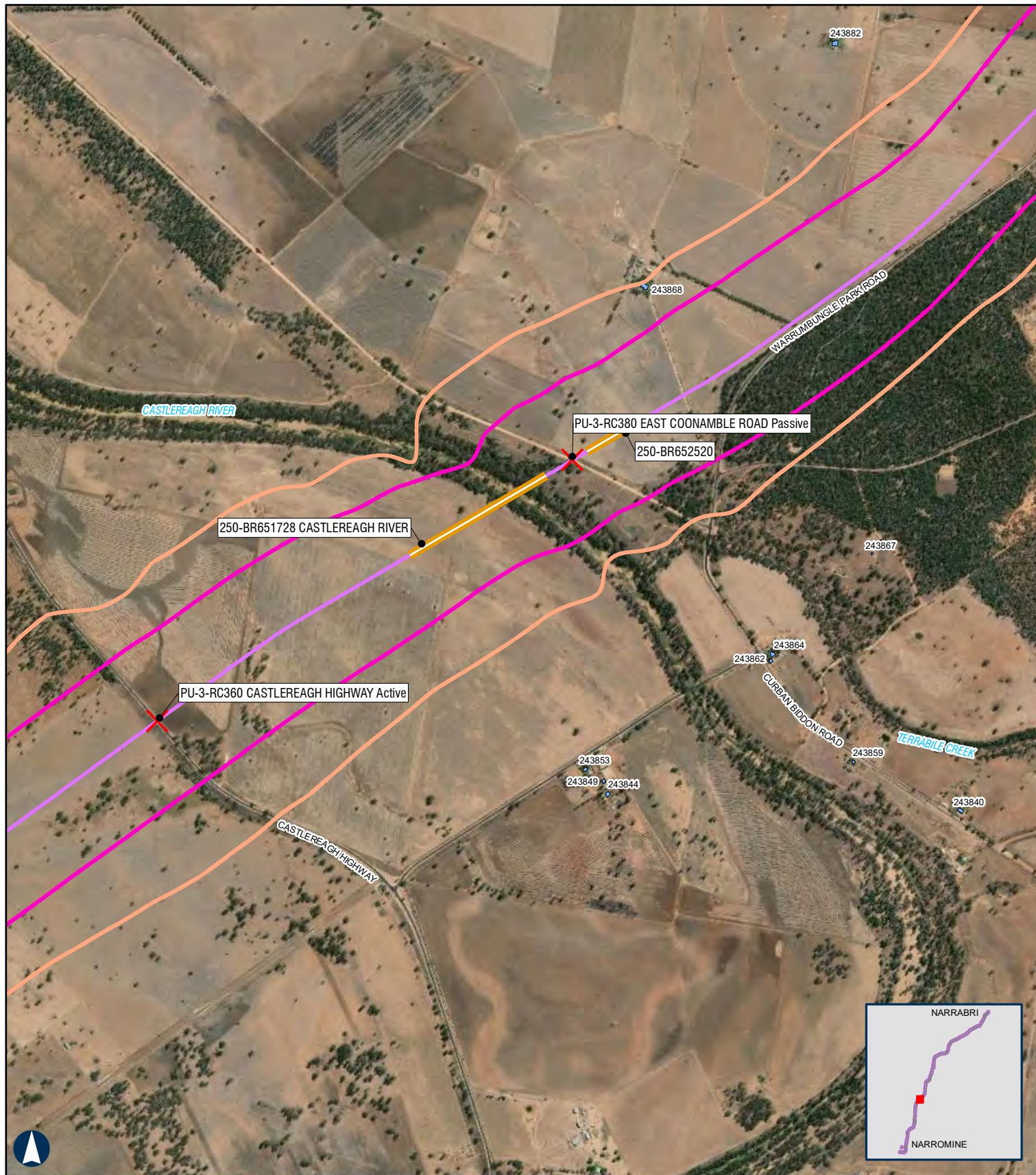
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## Year 2025 Night-time Rail Noise Levels

## APPENDIX D - Map 114 of 168

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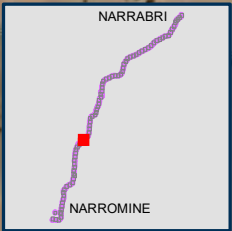
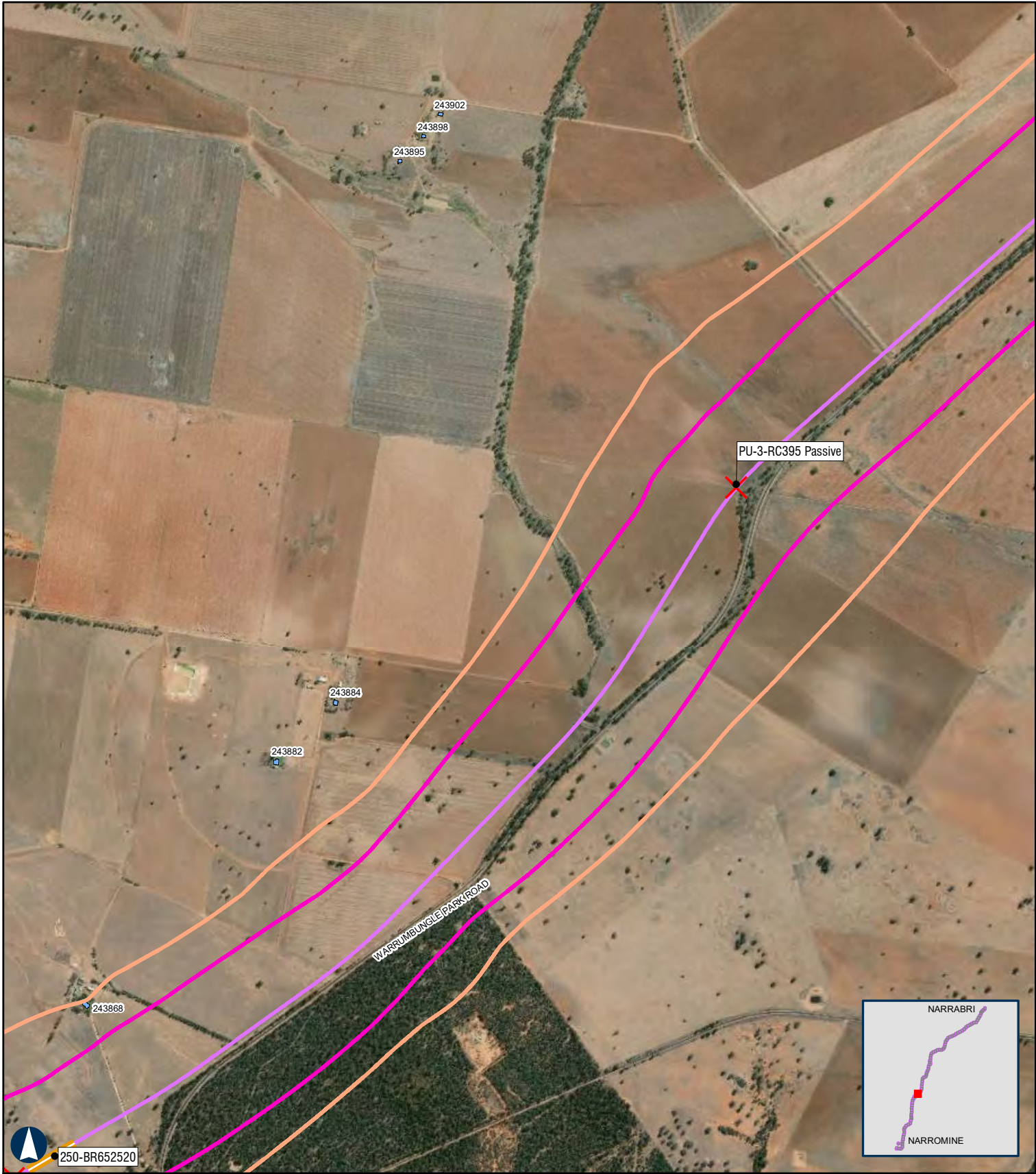
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**NARROMINE TO NARRABRI**

**Year 2025 Night-time Rail Noise Levels**

**APPENDIX D - Map 115 of 168**

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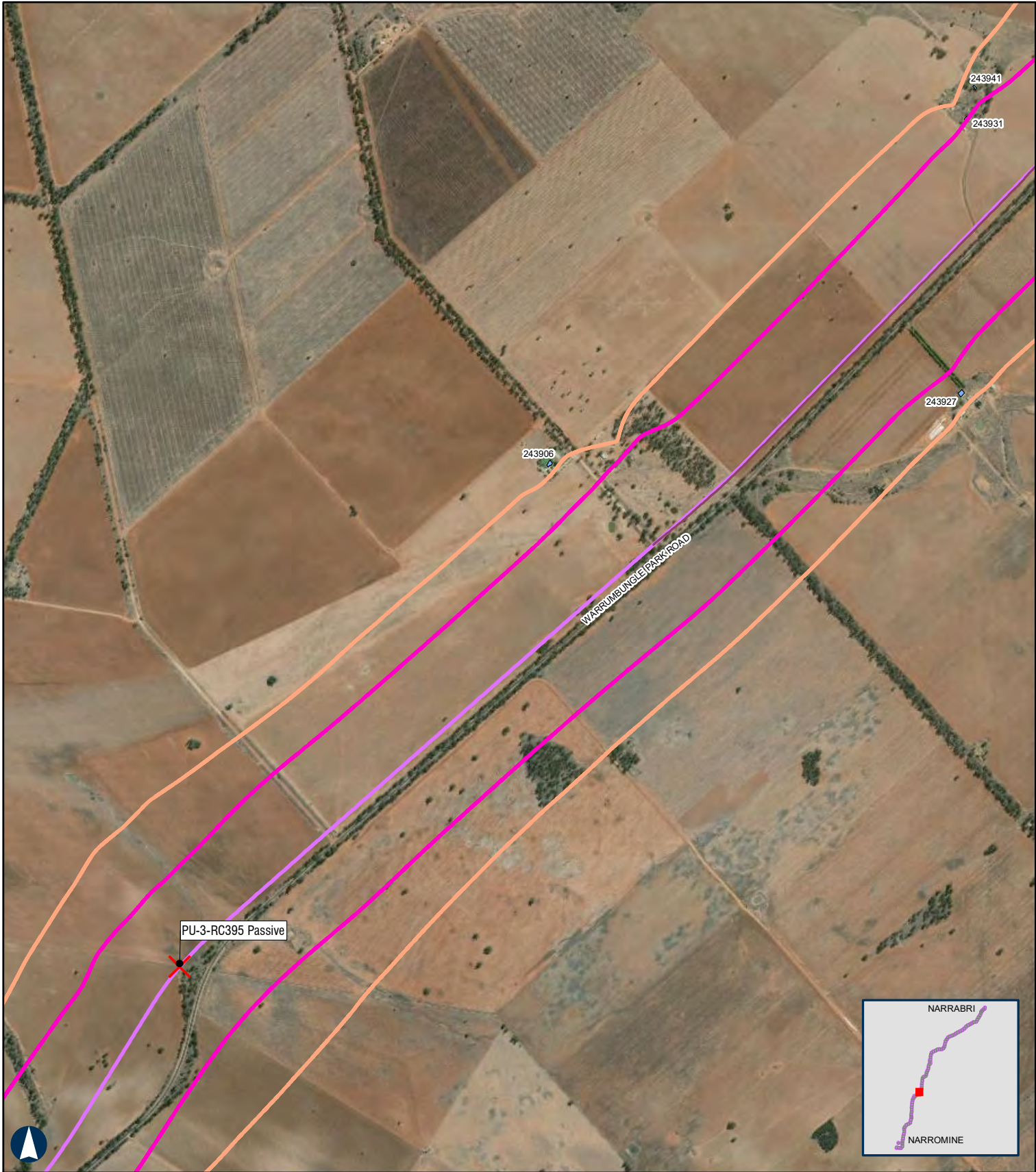
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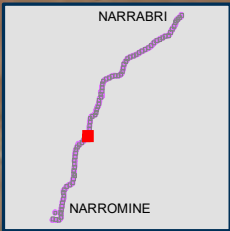
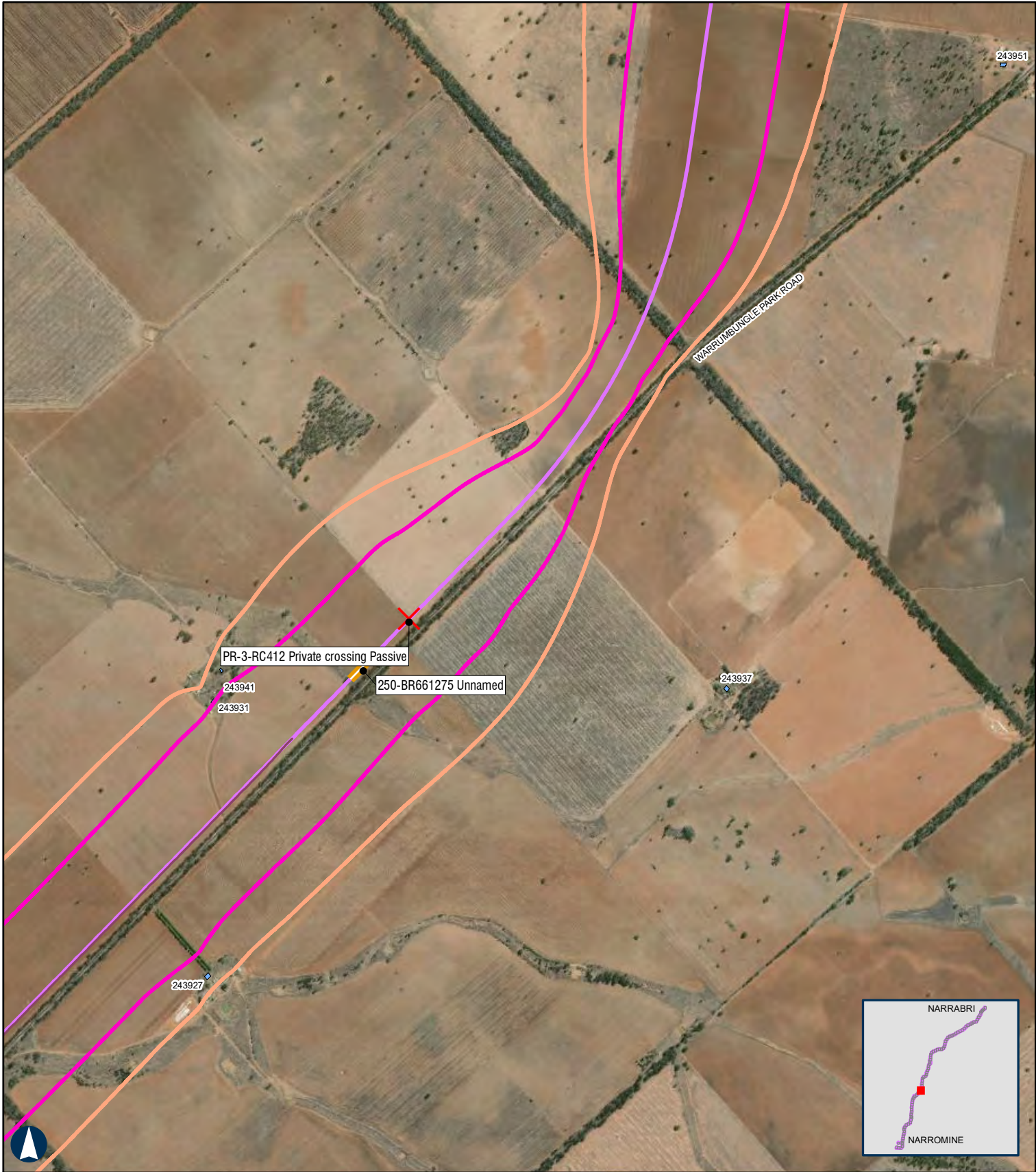




| NARROMINE TO NARRABRI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | Year 2025 Night-time Rail Noise Levels                                                                                                                                                                                                                                                                                                                          | APPENDIX D - Map 116 of 168                                                                                                                                                                                                                                                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>500 m</b></p> <p>Coordinate System: GDA 1994 MGA Zone 55</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: 1:20,000<br/> Date: 31-Jul-2020<br/> Author: JG</p> |  | <p><b>Level Crossings</b></p> <p><b>Proposal Extent</b></p> <p><b>Crossing Loops</b></p> <p><b>Rail Alignment/Centreline</b></p> <p><b>Bridges and Viaducts</b></p> <p><b>Sensitive Receivers</b></p> <p><b>Noise Assessment Area – Upgrading Existing Railway</b></p> <p>Noise contours are based on a set distance above the local terrain level of 2.4m.</p> | <p><b>Night-time noise criteria LAeq 9hr 55dBA new rail corridor</b></p> <p><b>Night-time noise criteria LAeq 9hr 60dBA upgrading existing rail corridor</b></p> <p><b>Night-time noise criteria LA max 80dBA new rail corridor</b></p> <p><b>Night-time noise criteria LA max 85dBA upgrading existing rail corridor</b></p> |

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**Year 2025 Night-time Rail Noise Levels**

**APPENDIX D - Map 117 of 168**

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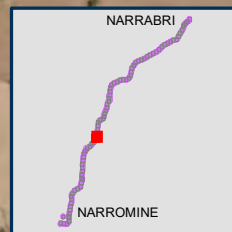
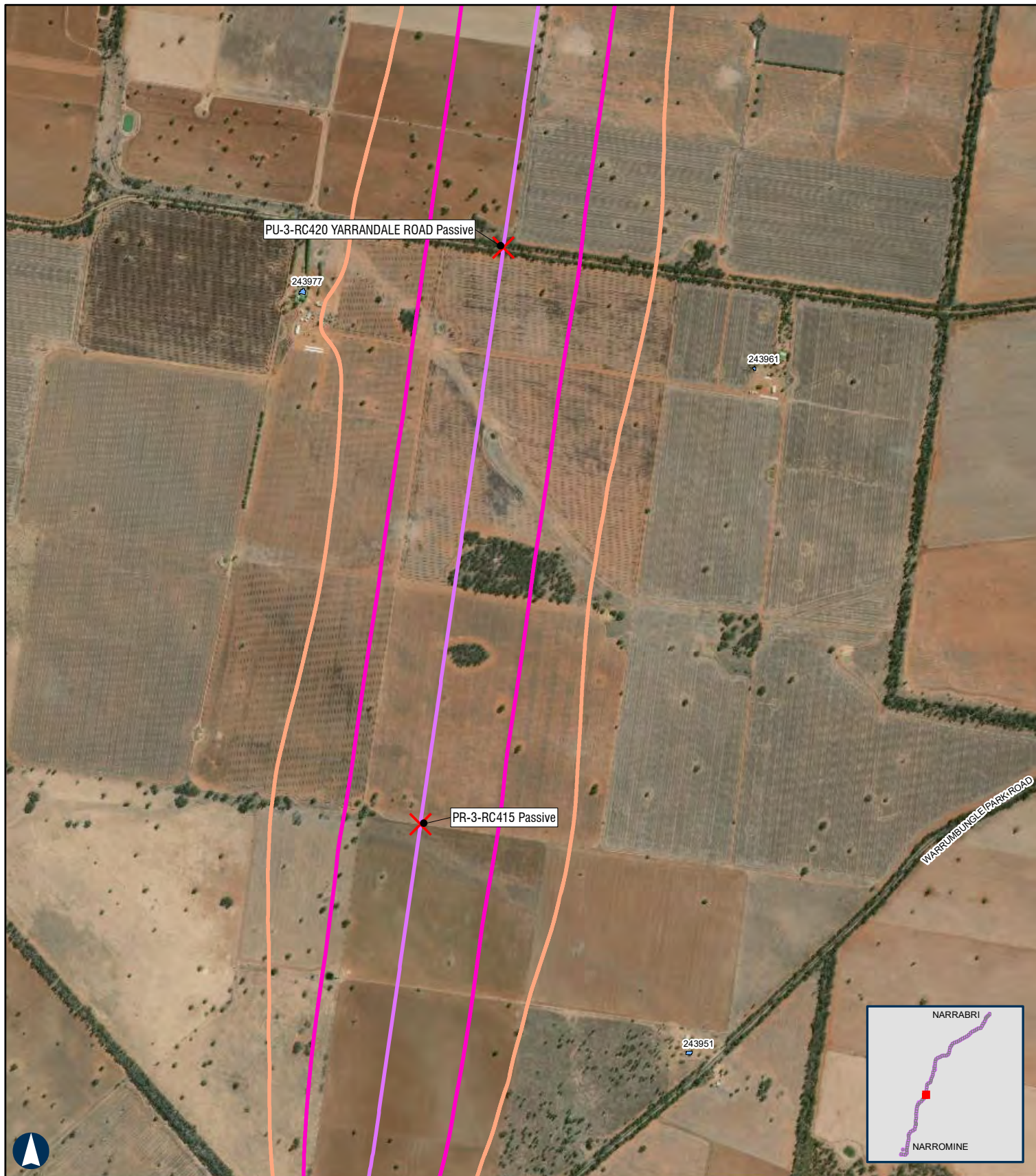
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## Year 2025 Night-time Rail Noise Levels

## APPENDIX D - Map 118 of 168

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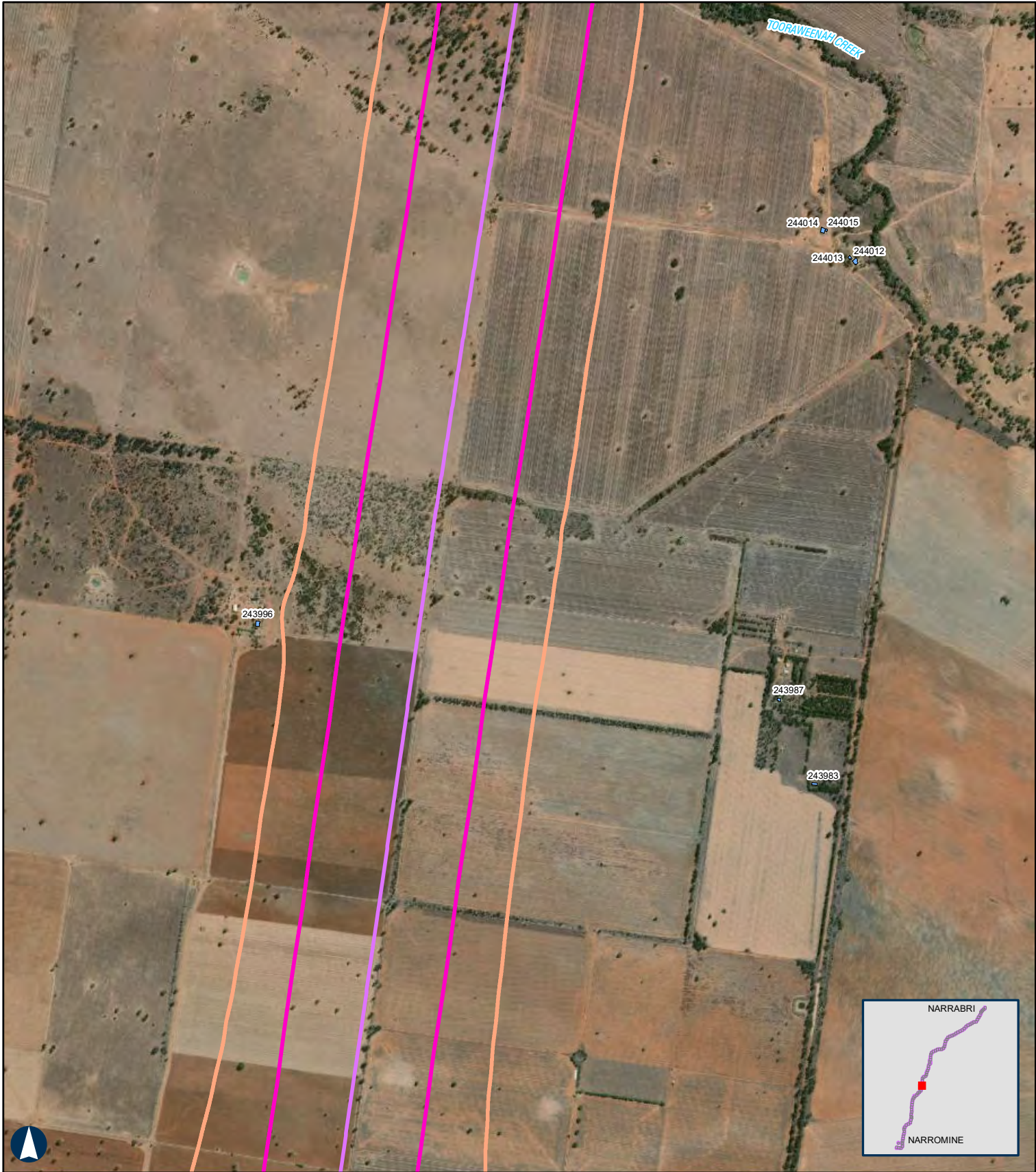
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Year 2025 Night-time Rail Noise Levels

APPENDIX D - Map 119 of 168

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✗

Level Crossings

—

Proposal Extent

—

Crossing Loops

—

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—

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■

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■

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ARTC

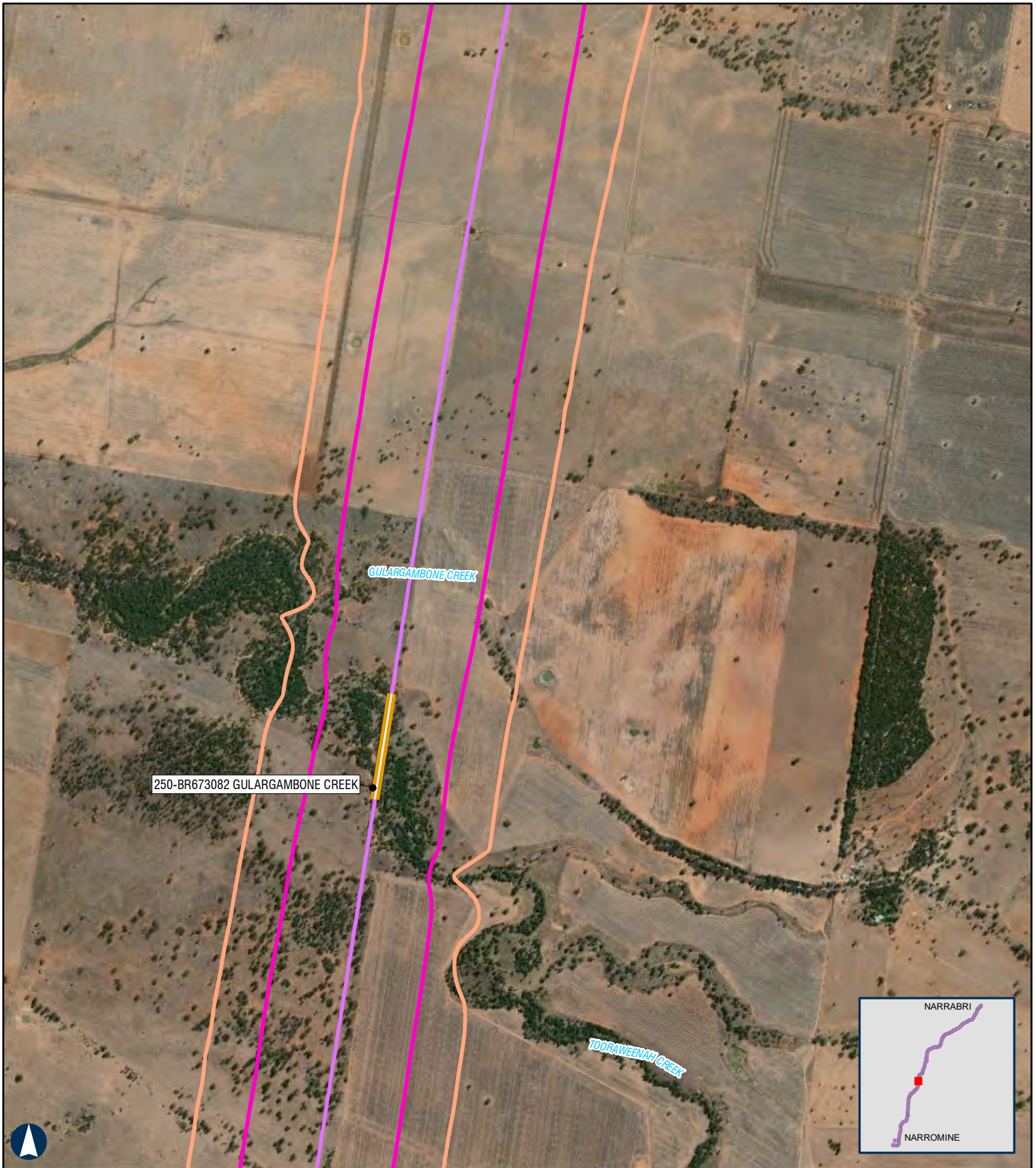
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## NARROMINE TO NARRABRI

## Year 2025 Night-time Rail Noise Levels

## APPENDIX D - Map 120 of 168

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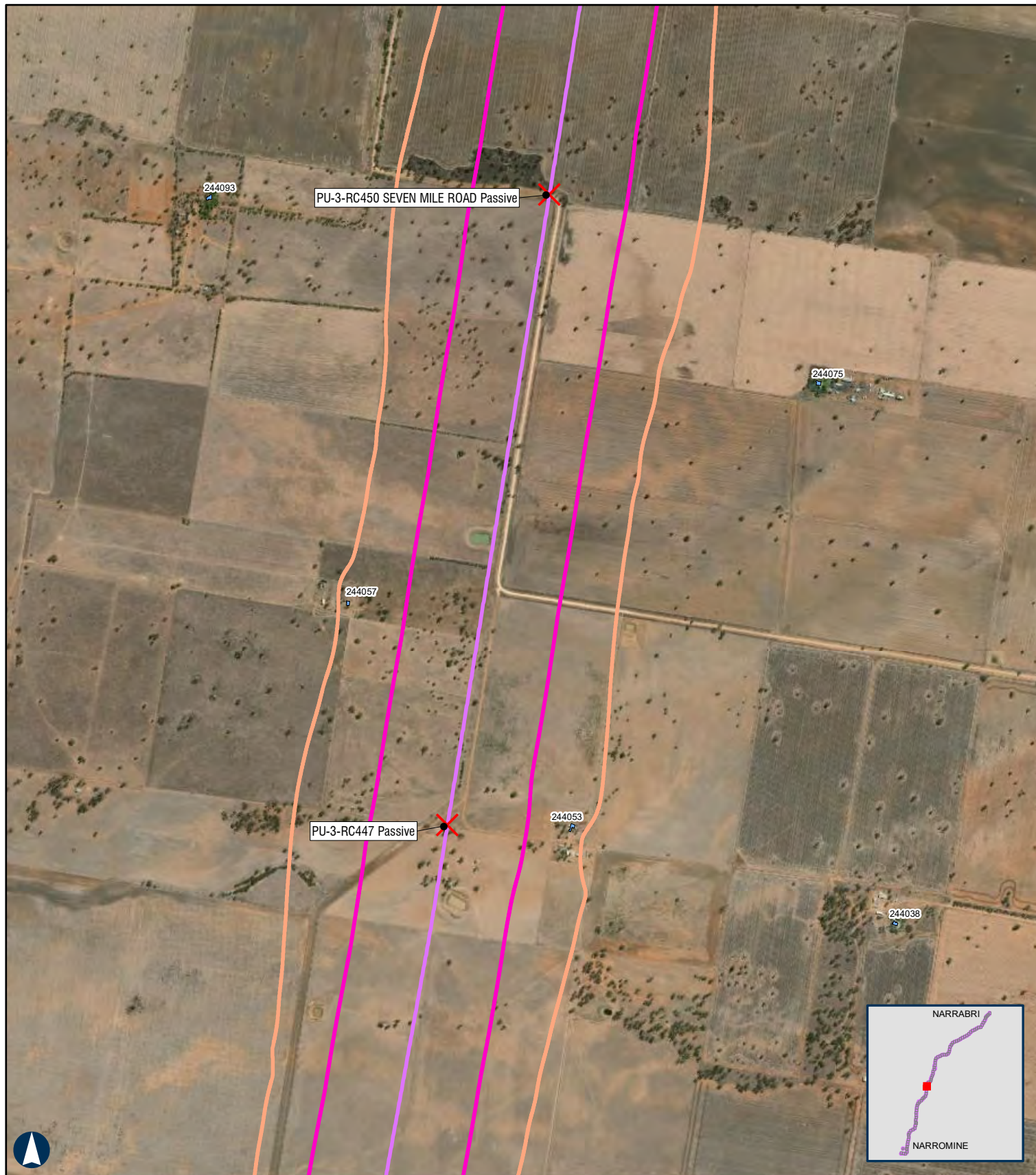
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## NARROMINE TO NARRABRI

## Year 2025 Night-time Rail Noise Levels

## APPENDIX D - Map 121 of 168

500 m

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Author: JG

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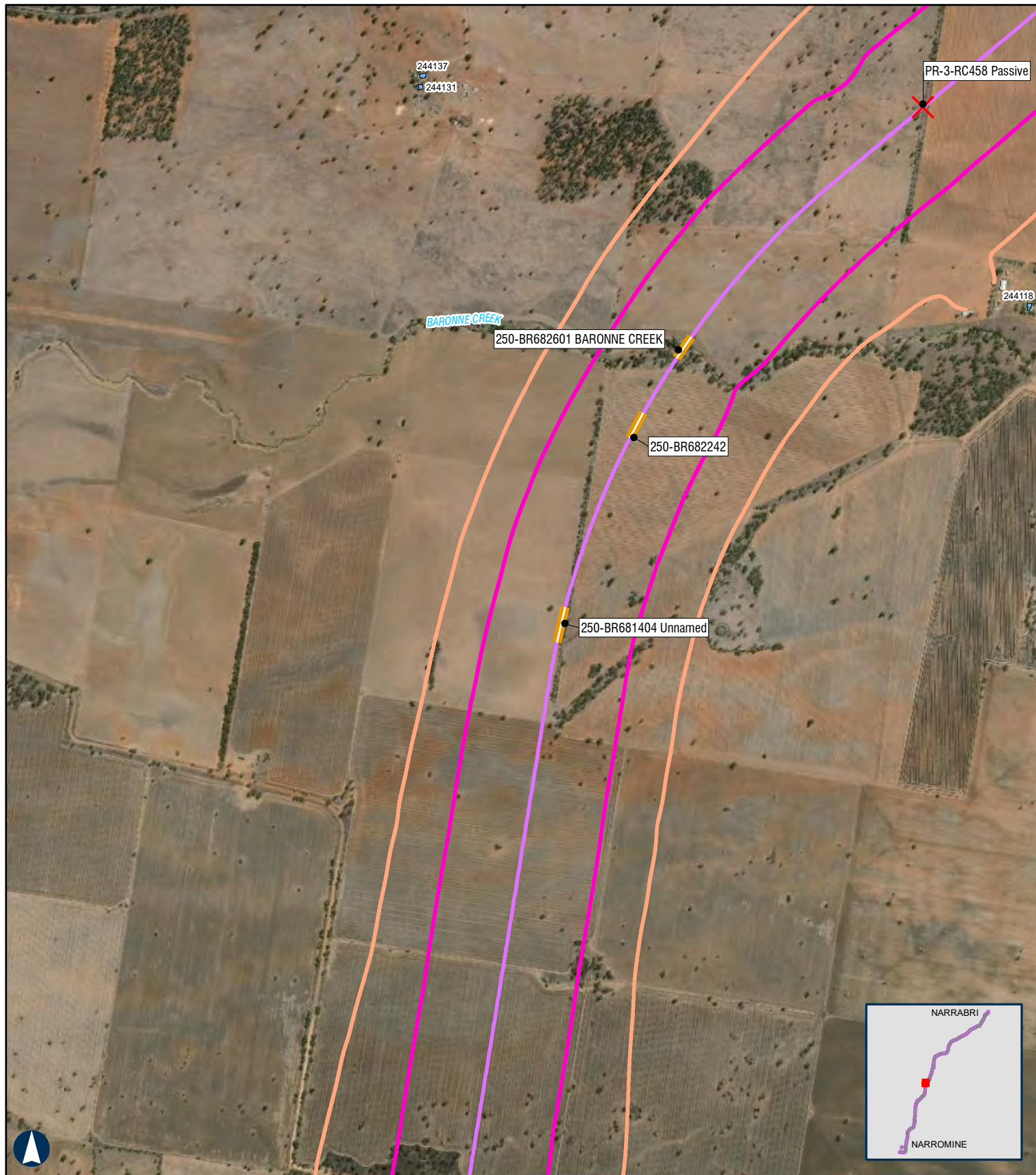
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## NARROMINE TO NARRABRI

## Year 2025 Night-time Rail Noise Levels

## APPENDIX D - Map 122 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4

Scale: 1:20,000

Date: 31-Jul-2020

Author: JG

- Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

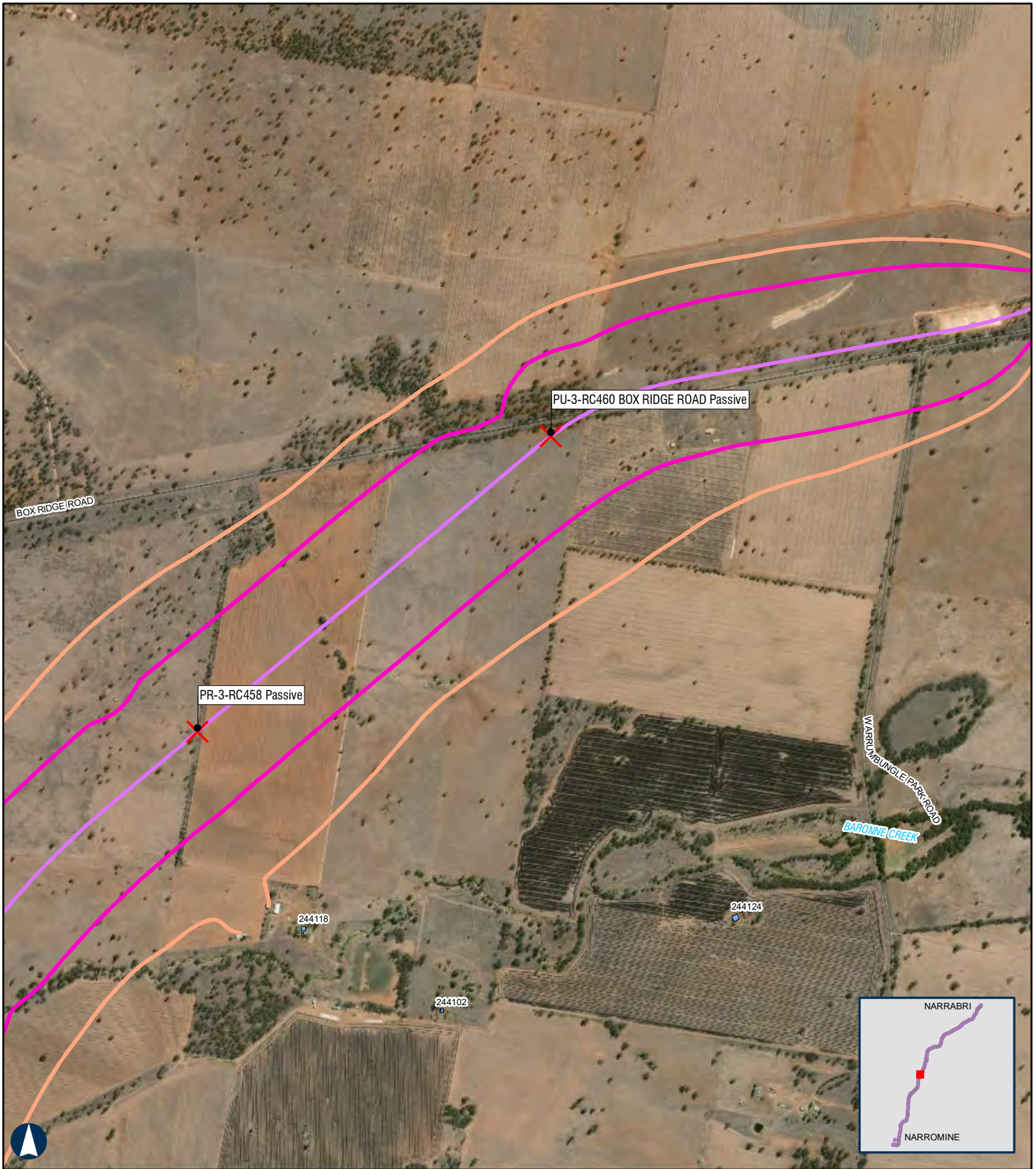
Noise contours are based on a set distance above the local terrain level of 2.4m.

- Night-time noise criteria LAeq 9hr 55dBA new rail corridor
- Night-time noise criteria LAeq 9hr 60dBA upgrading existing rail corridor
- Night-time noise criteria LA max 80dBA new rail corridor
- Night-time noise criteria LA max 85dBA upgrading existing rail corridor

**ARTC** **InlandRail**

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## NARROMINE TO NARRABRI

## Year 2025 Night-time Rail Noise Levels

## APPENDIX D - Map 123 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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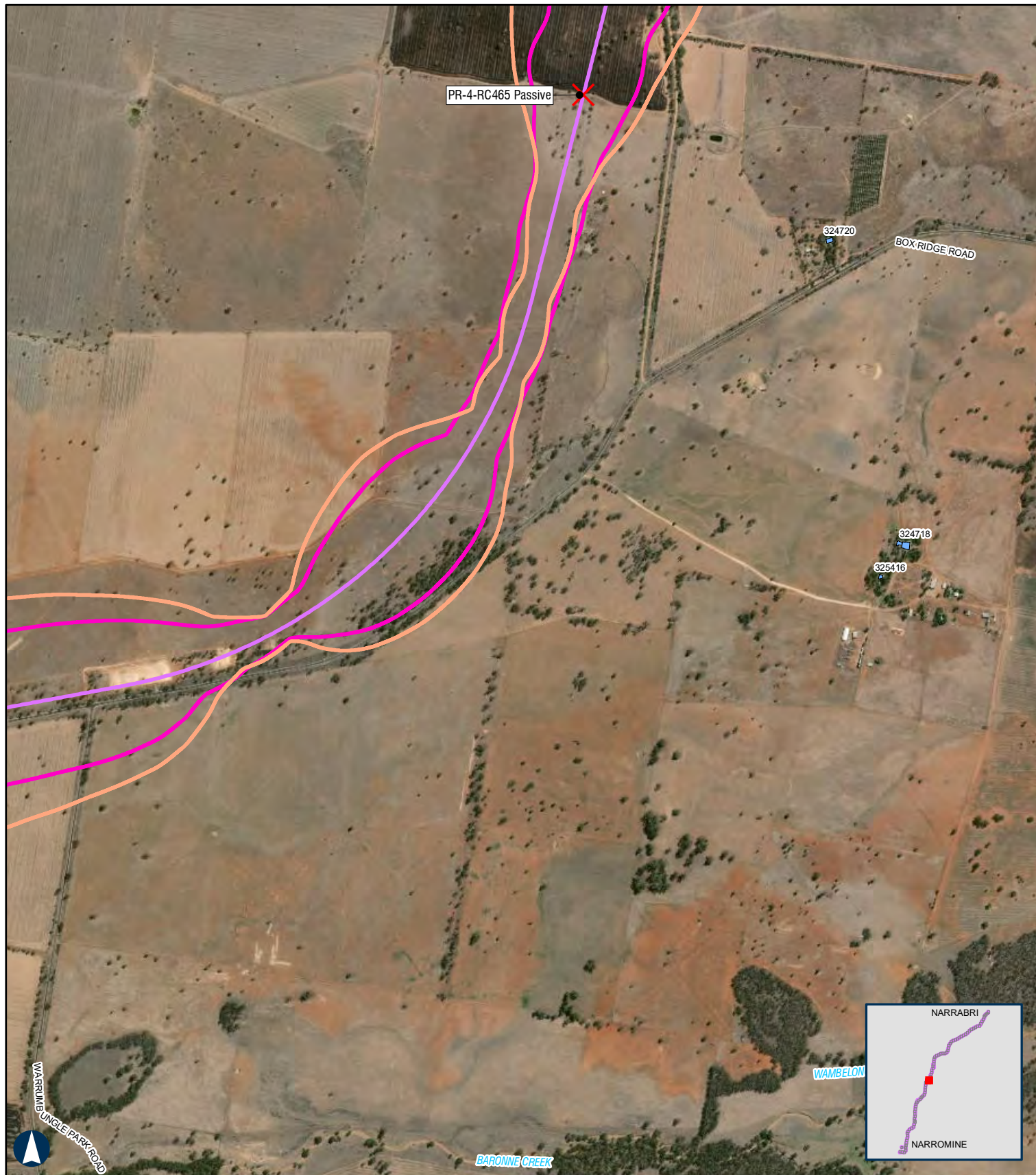
Noise contours are based on a set distance above the local terrain level of 2.4m.

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## NARROMINE TO NARRABRI

## Year 2025 Night-time Rail Noise Levels

## APPENDIX D - Map 124 of 168

500 m

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Date: 31-Jul-2020

Author: JG

- X Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

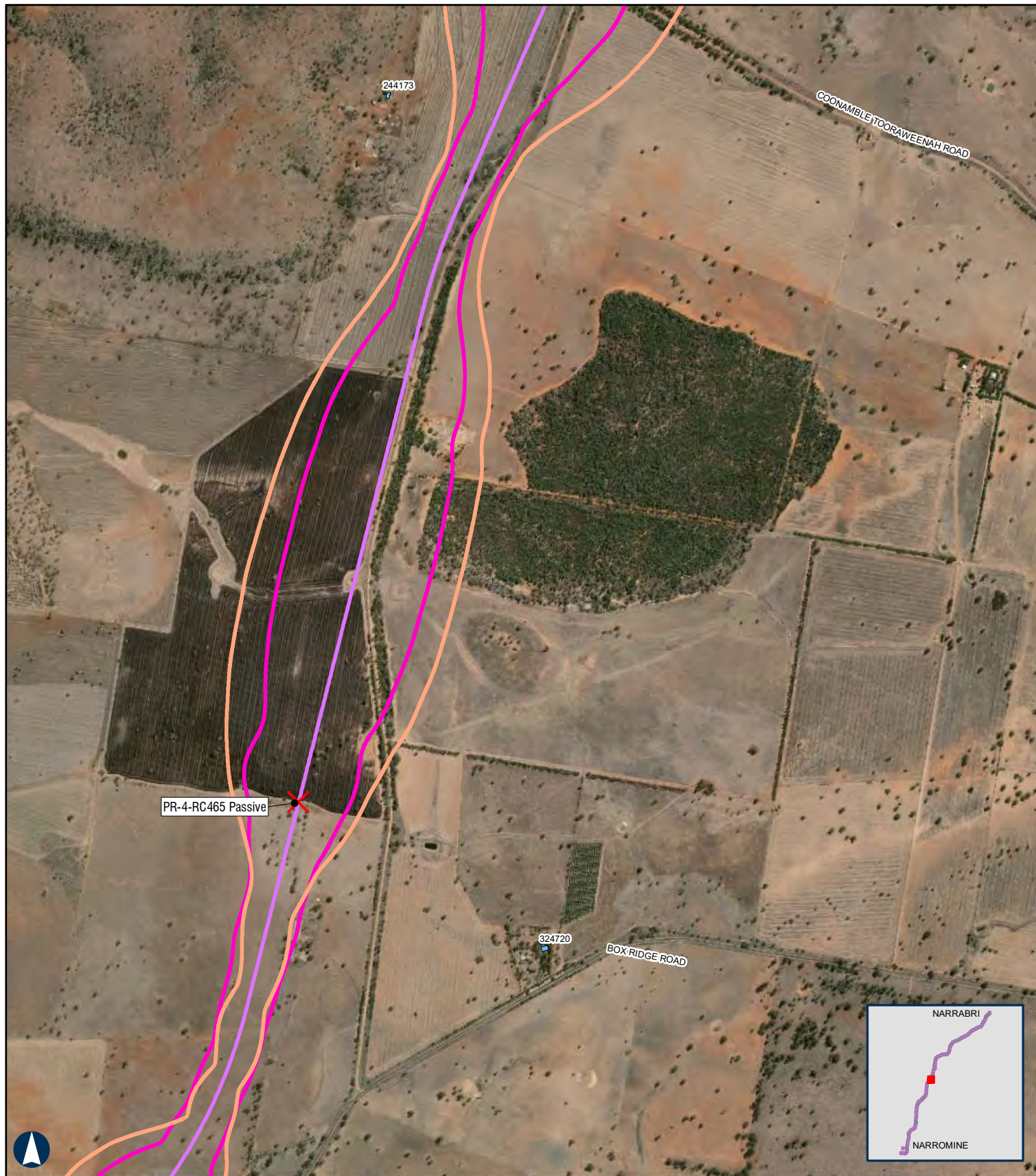
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## NARROMINE TO NARRABRI

## Year 2025 Night-time Rail Noise Levels

## APPENDIX D - Map 125 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Author: JG

Scale: 1:20,000

- ✕ Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

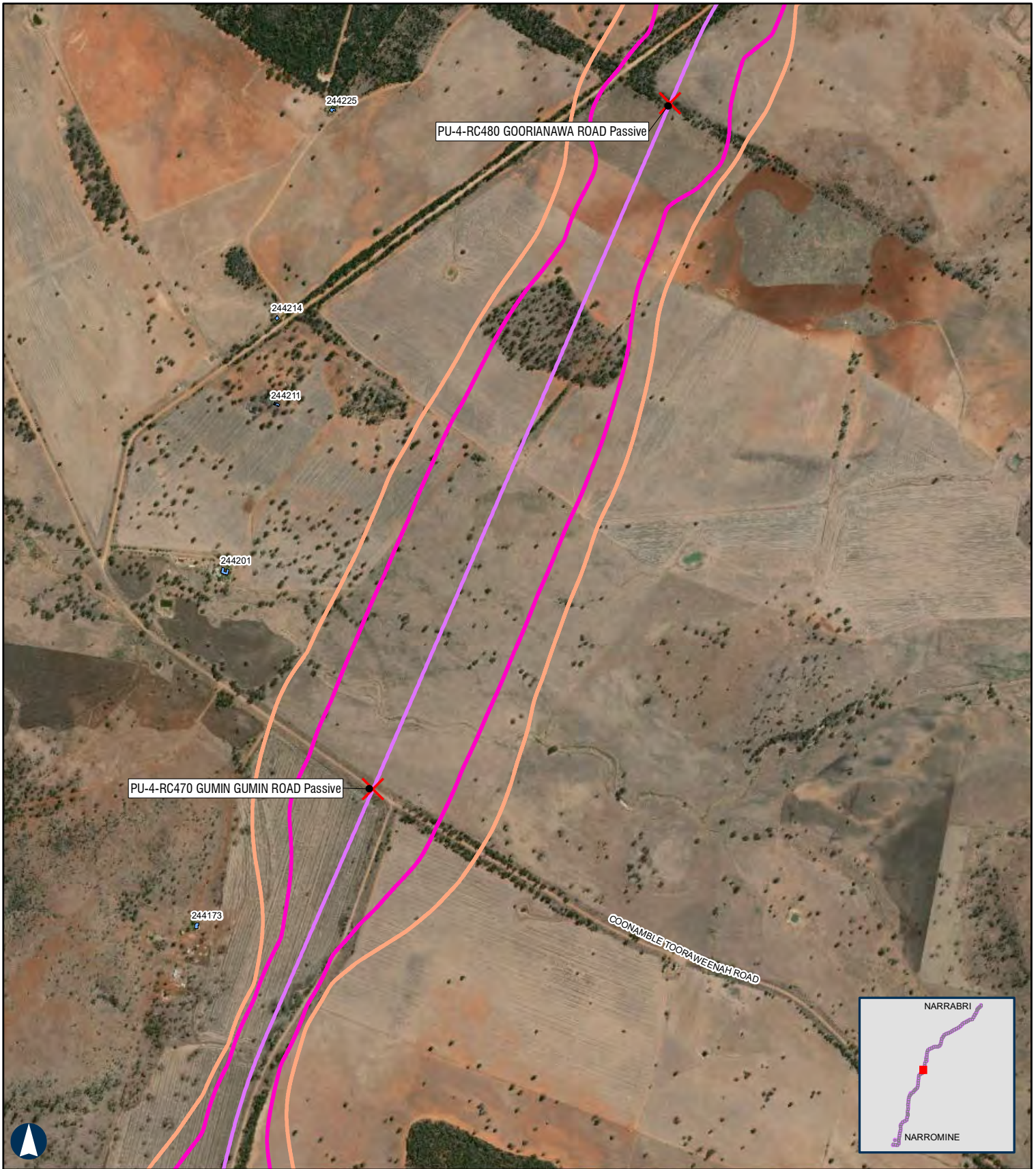
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- Night-time noise criteria LAeq 9hr 55dBA new rail corridor
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## NARROMINE TO NARRABRI

## Year 2025 Night-time Rail Noise Levels

## APPENDIX D - Map 126 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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- X Level Crossings
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- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

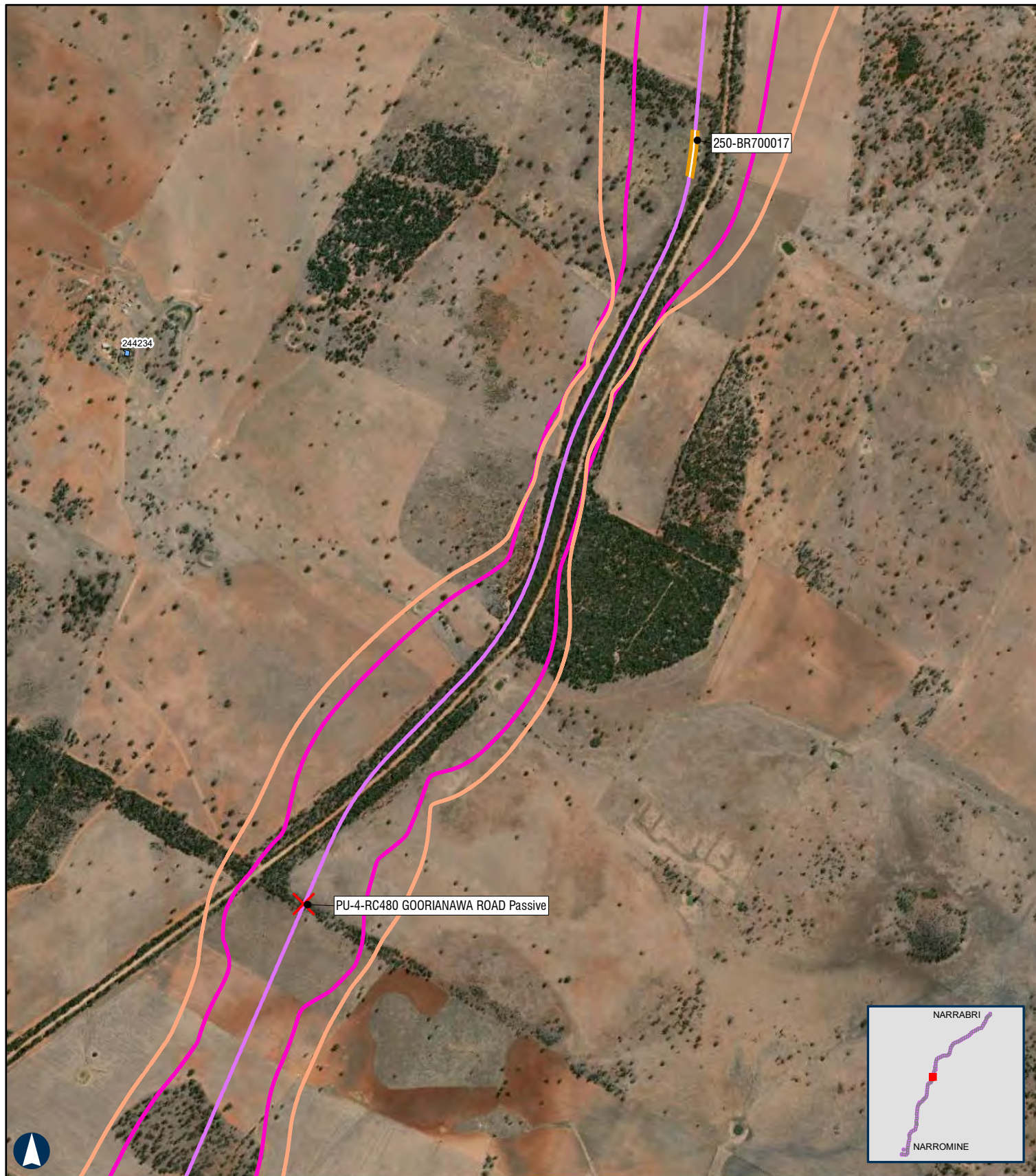
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## NARROMINE TO NARRABRI

## Year 2025 Night-time Rail Noise Levels

## APPENDIX D - Map 127 of 168

500 m

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Author: JG

- ✗ Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

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

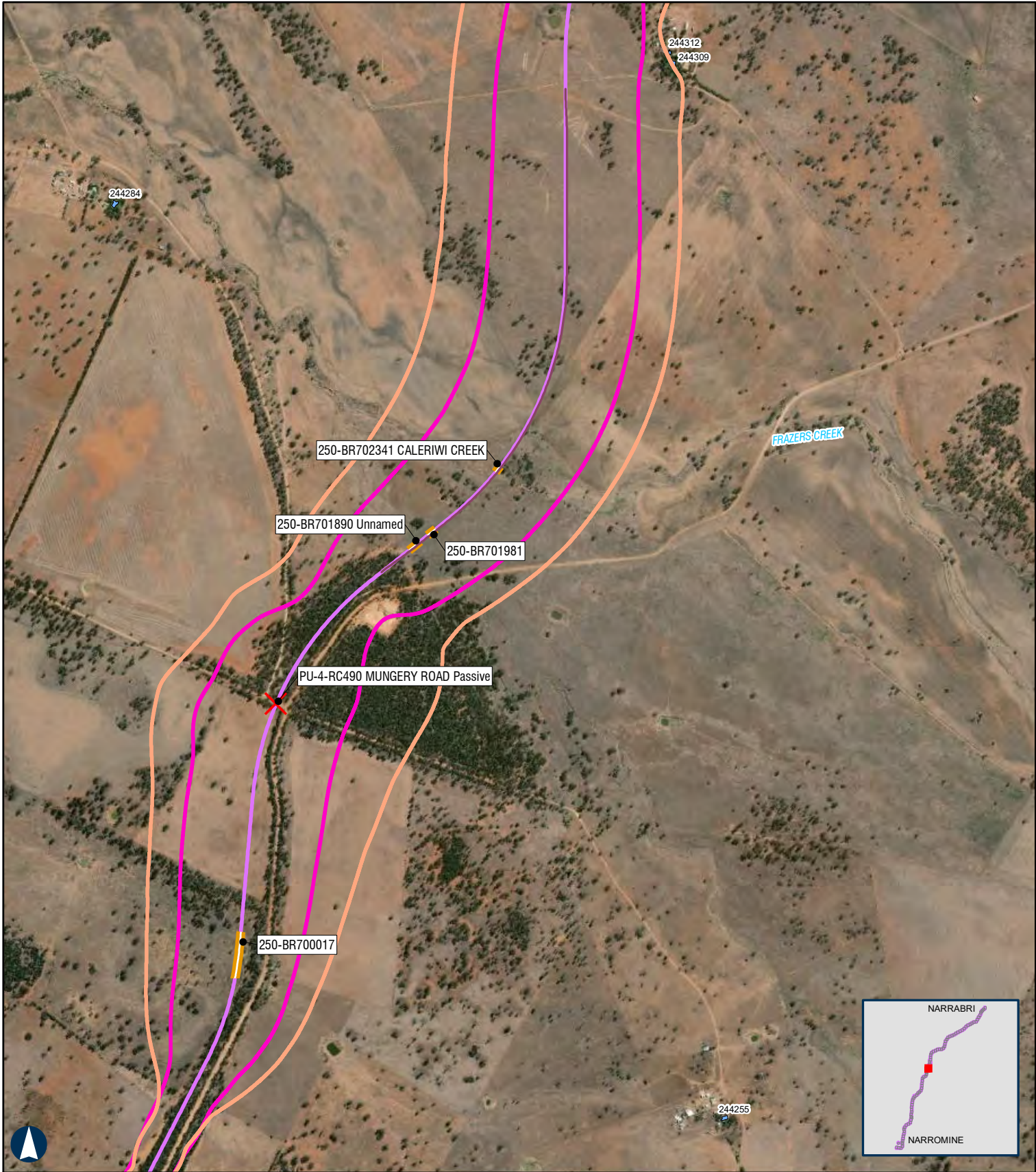
- Night-time noise criteria LAeq 9hr 55dBA new rail corridor
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**NARROMINE TO NARRABRI**

**Year 2025 Night-time Rail Noise Levels**

**APPENDIX D - Map 128 of 168**

500 m

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- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

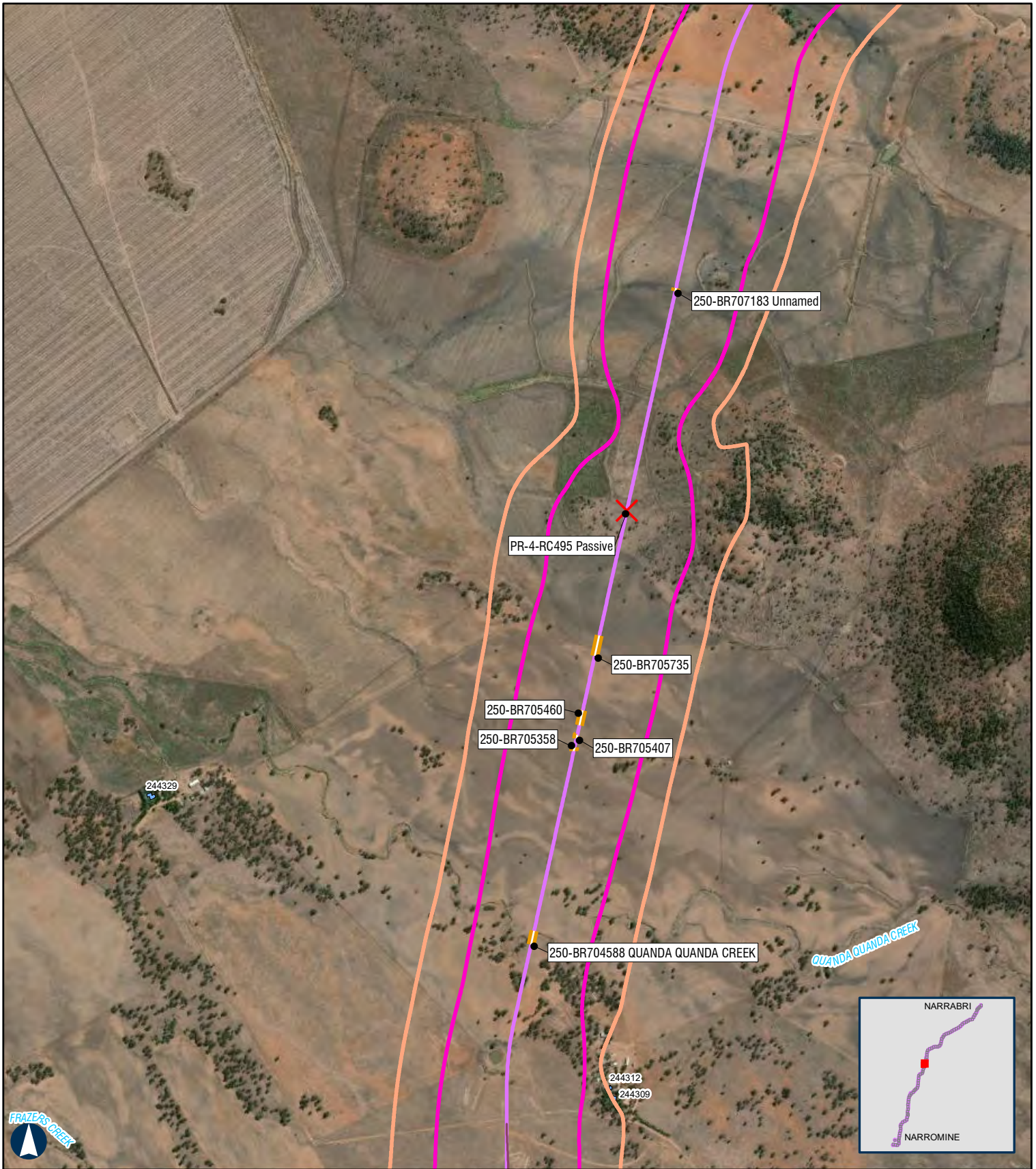
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## NARROMINE TO NARRABRI

## Year 2025 Night-time Rail Noise Levels

## APPENDIX D - Map 129 of 168

500 m

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Author: JG

- X Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- ▬ Bridges and Viaducts
- Sensitive Receivers
- ▬ Noise Assessment Area – Upgrading Existing Railway

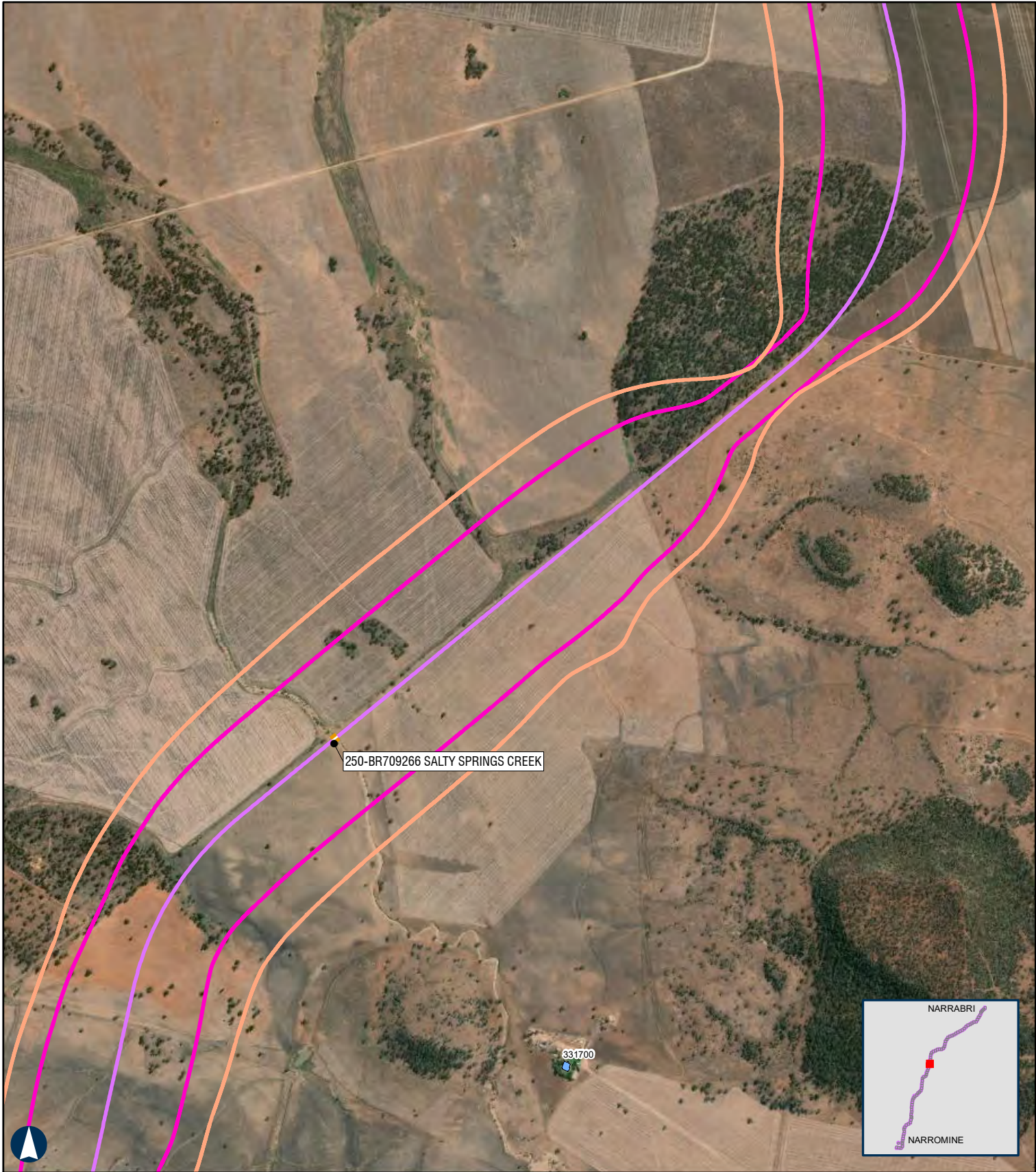
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## NARROMINE TO NARRABRI

## Year 2025 Night-time Rail Noise Levels

## APPENDIX D - Map 130 of 168

500 m

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- ✗ Level Crossings
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- Crossing Loops
- Rail Alignment/Centreline
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NARROMINE TO NARRABRI

Year 2025 Night-time Rail Noise Levels

APPENDIX D - Map 131 of 168

500 m

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✗

Level Crossings

—

Proposal Extent

—

Crossing Loops

—

Rail Alignment/Centreline

—

Bridges and Viaducts

■

Sensitive Receivers

■

Noise Assessment Area – Upgrading Existing Railway

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

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Night-time noise criteria LA max 80dBA new rail corridor

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Night-time noise criteria LA max 85dBA upgrading existing rail corridor

ARTC

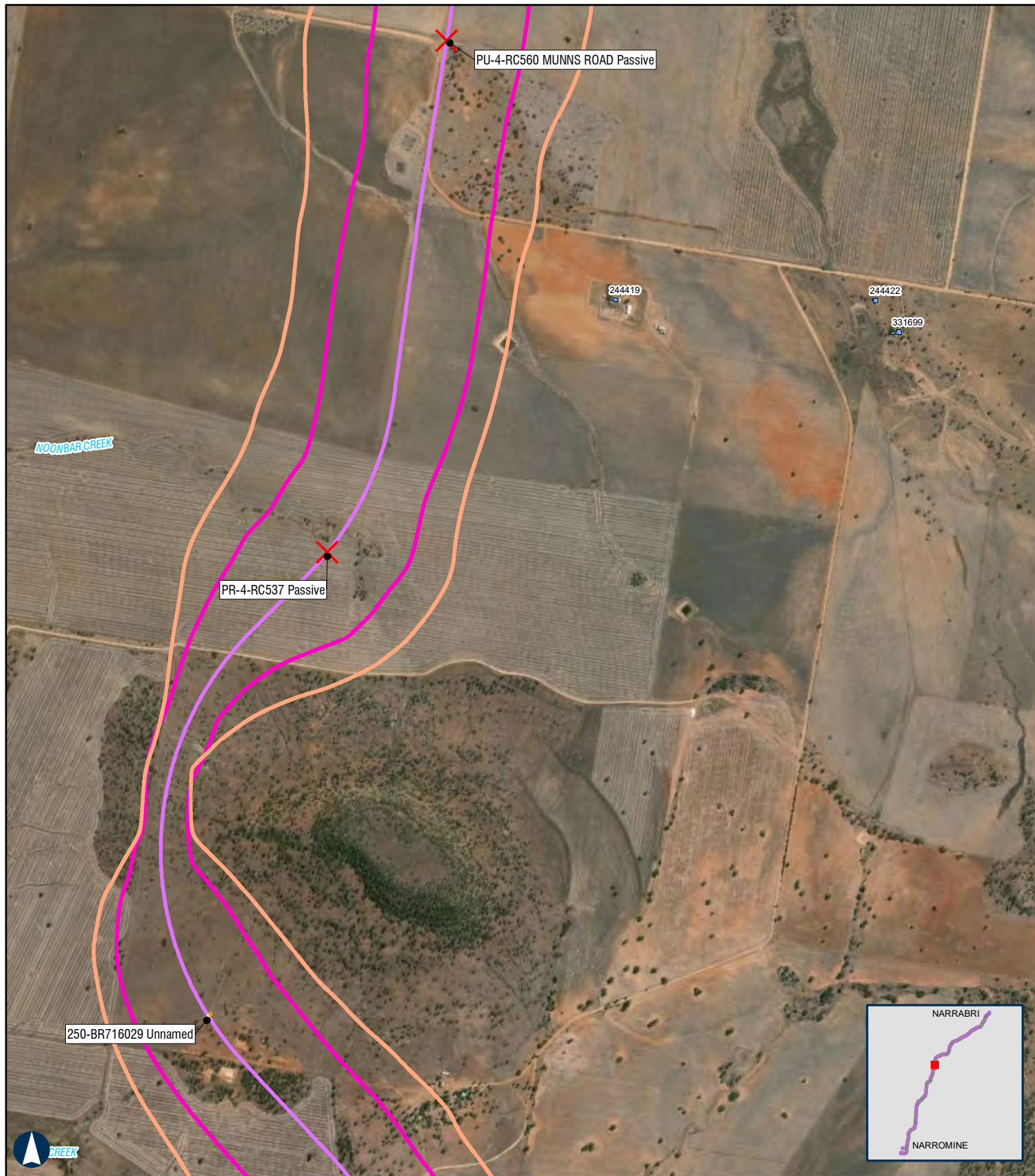
InlandRail

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H:\Projects-SLR\620-BNE\620-BNE\620.12209 Inland Rail\06 SLR Data\06 CAD\GIS\ArcGIS\N2N\SLR62012209\_N2N\_Night 2025.mxd

Service Layer Credits: Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community





## NARROMINE TO NARRABRI

## Year 2025 Night-time Rail Noise Levels

## APPENDIX D - Map 132 of 168

500 m

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- ✕ Level Crossings
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- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

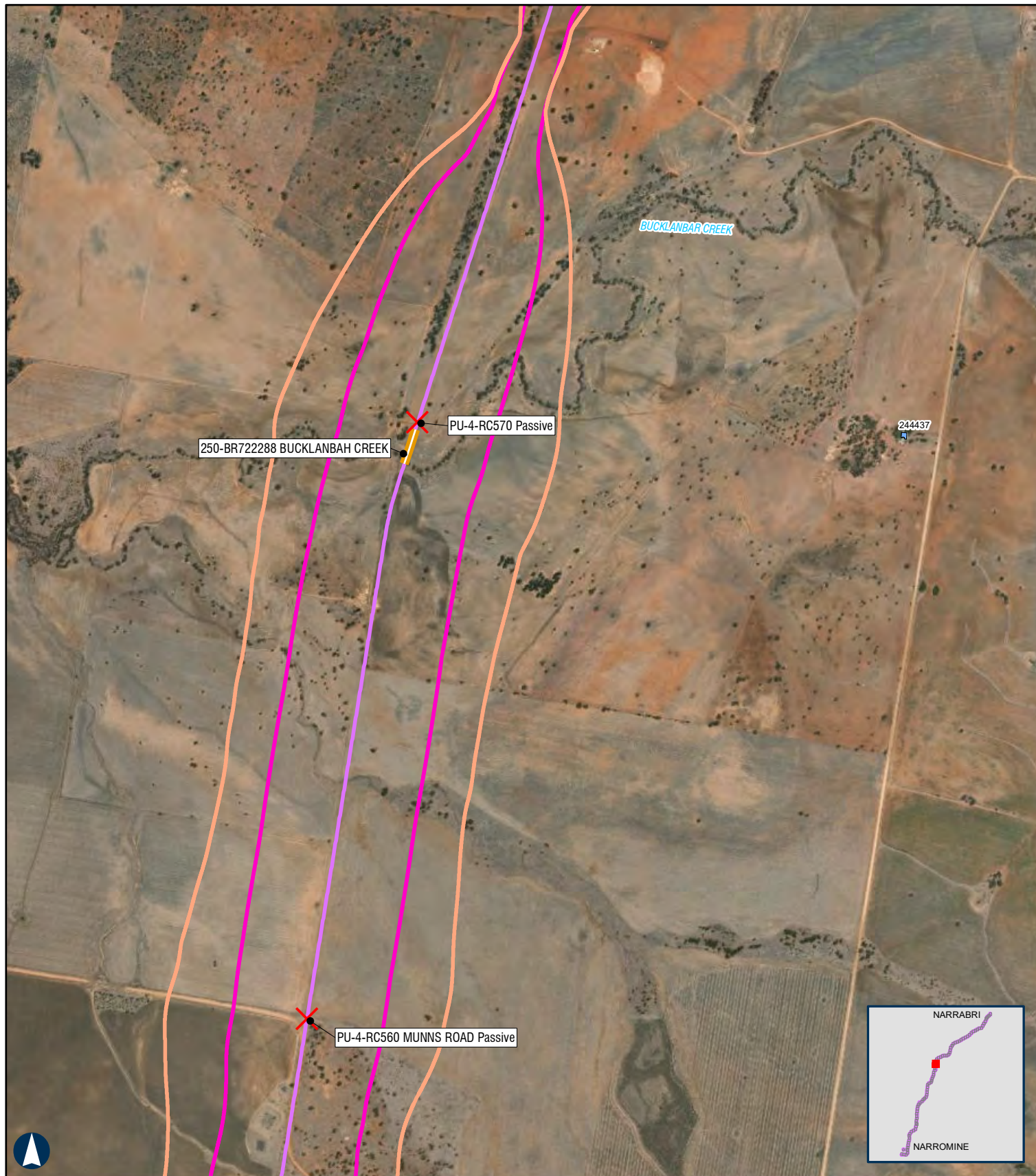
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## NARROMINE TO NARRABRI

## Year 2025 Night-time Rail Noise Levels

## APPENDIX D - Map 133 of 168

500 m

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- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

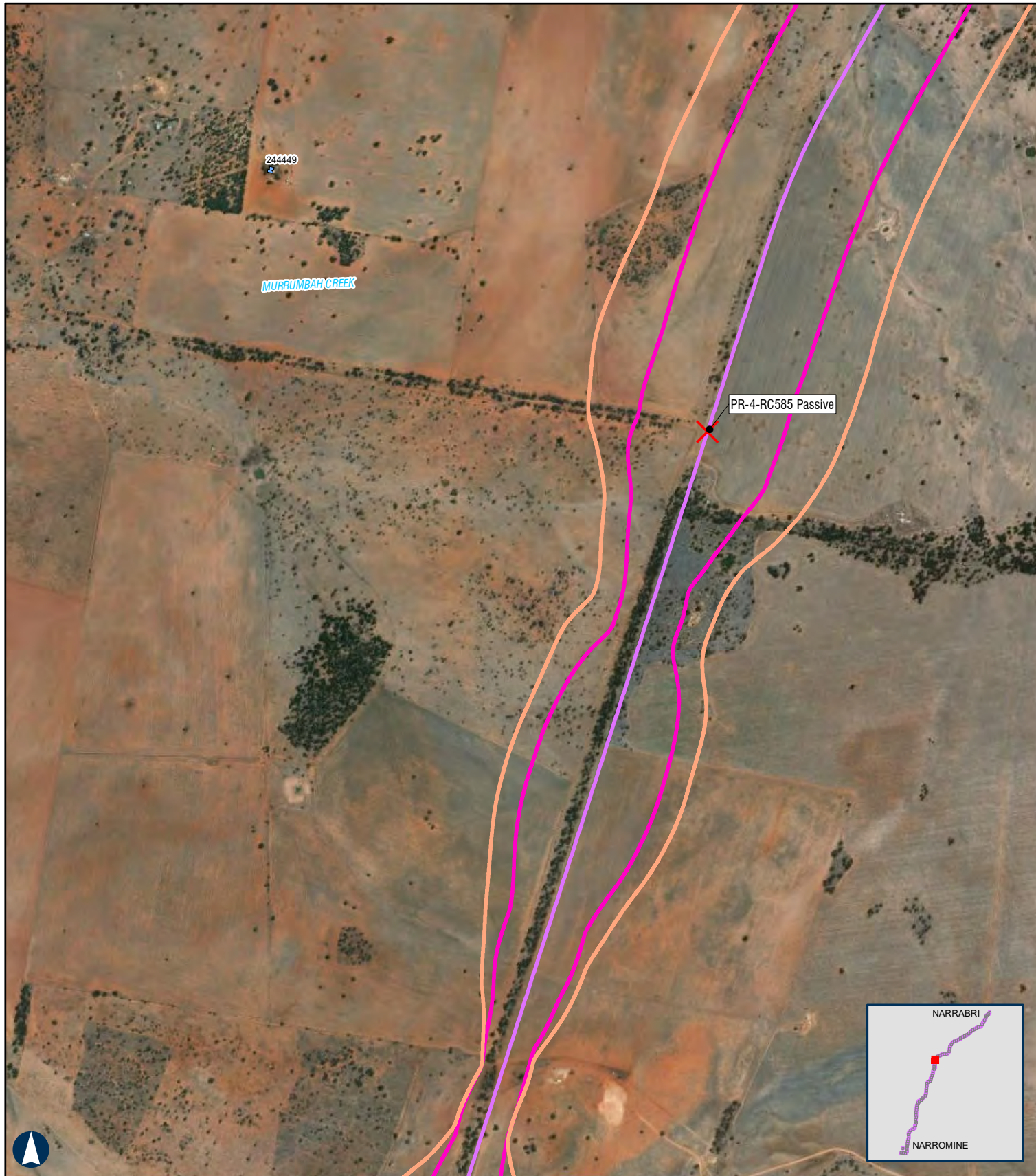
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## NARROMINE TO NARRABRI

## Year 2025 Night-time Rail Noise Levels

## APPENDIX D - Map 134 of 168

500 m

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- Level Crossings
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## NARROMINE TO NARRABRI

## Year 2025 Night-time Rail Noise Levels

## APPENDIX D - Map 135 of 168

500 m

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

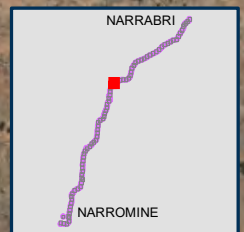
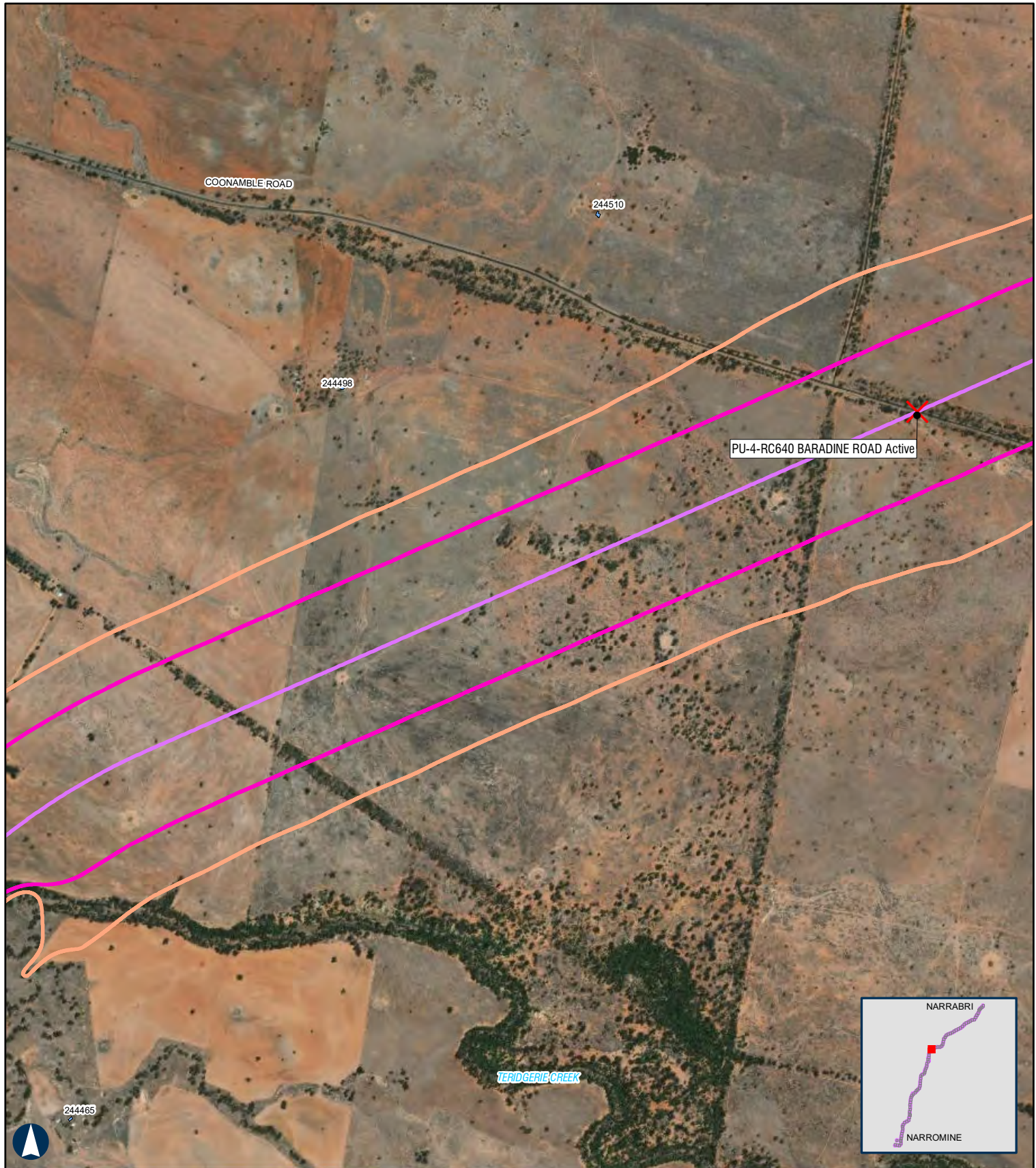
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## NARROMINE TO NARRABRI

## Year 2025 Night-time Rail Noise Levels

## APPENDIX D - Map 136 of 168

500 m

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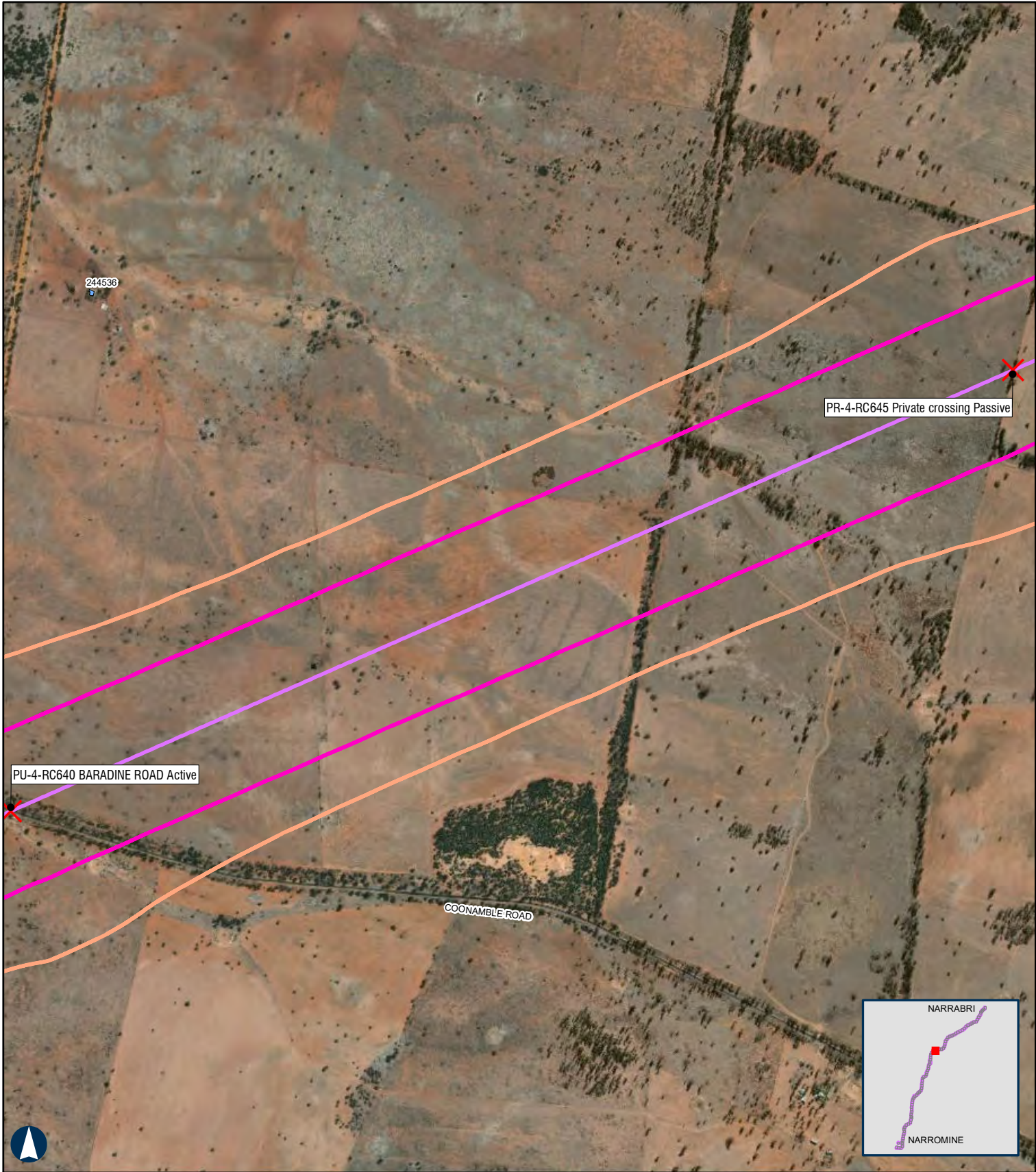
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Year 2025 Night-time Rail Noise Levels

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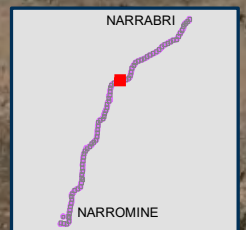
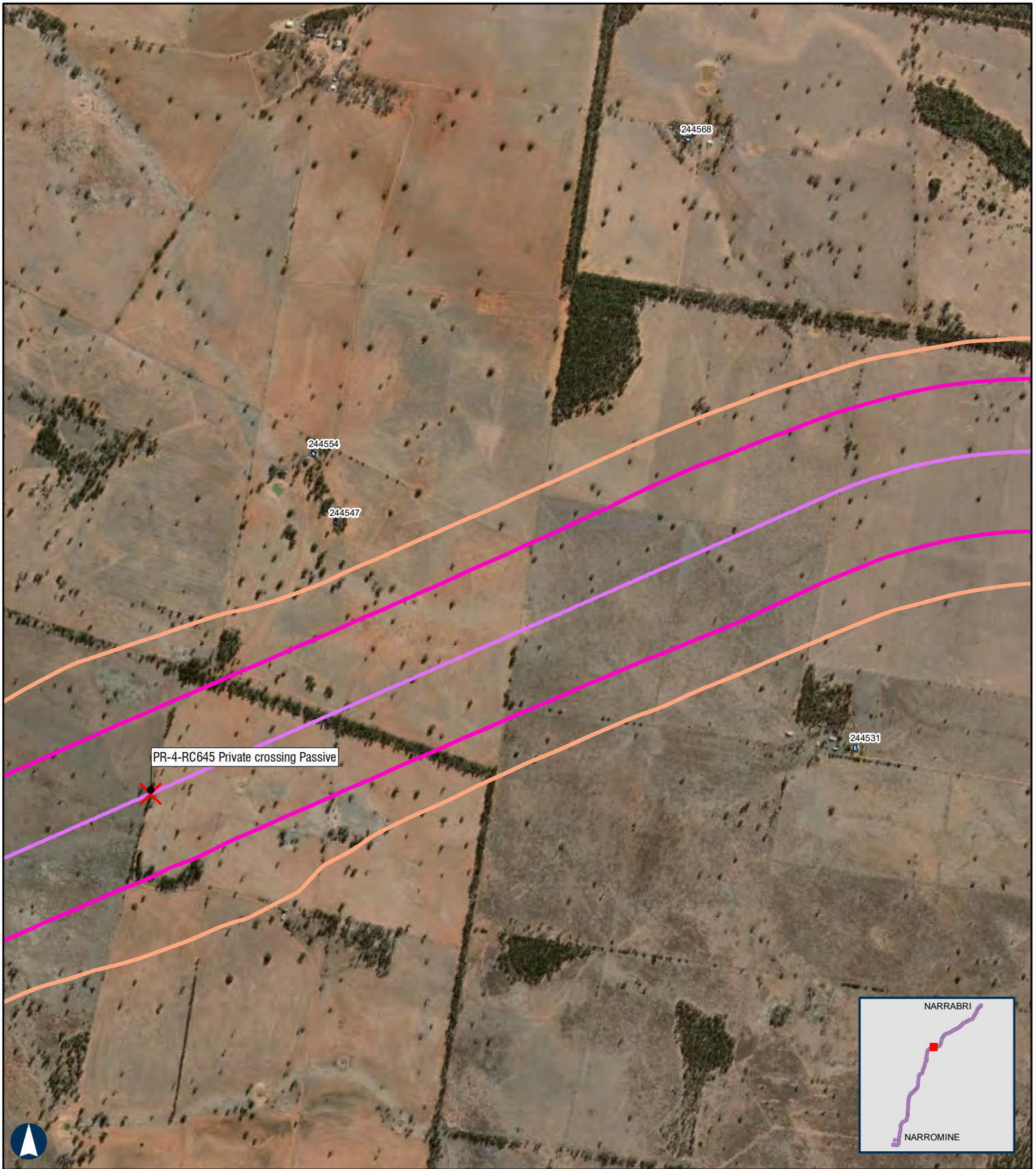
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APPENDIX D - Map 137 of 168

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## NARROMINE TO NARRABRI

## Year 2025 Night-time Rail Noise Levels

## APPENDIX D - Map 138 of 168

500 m

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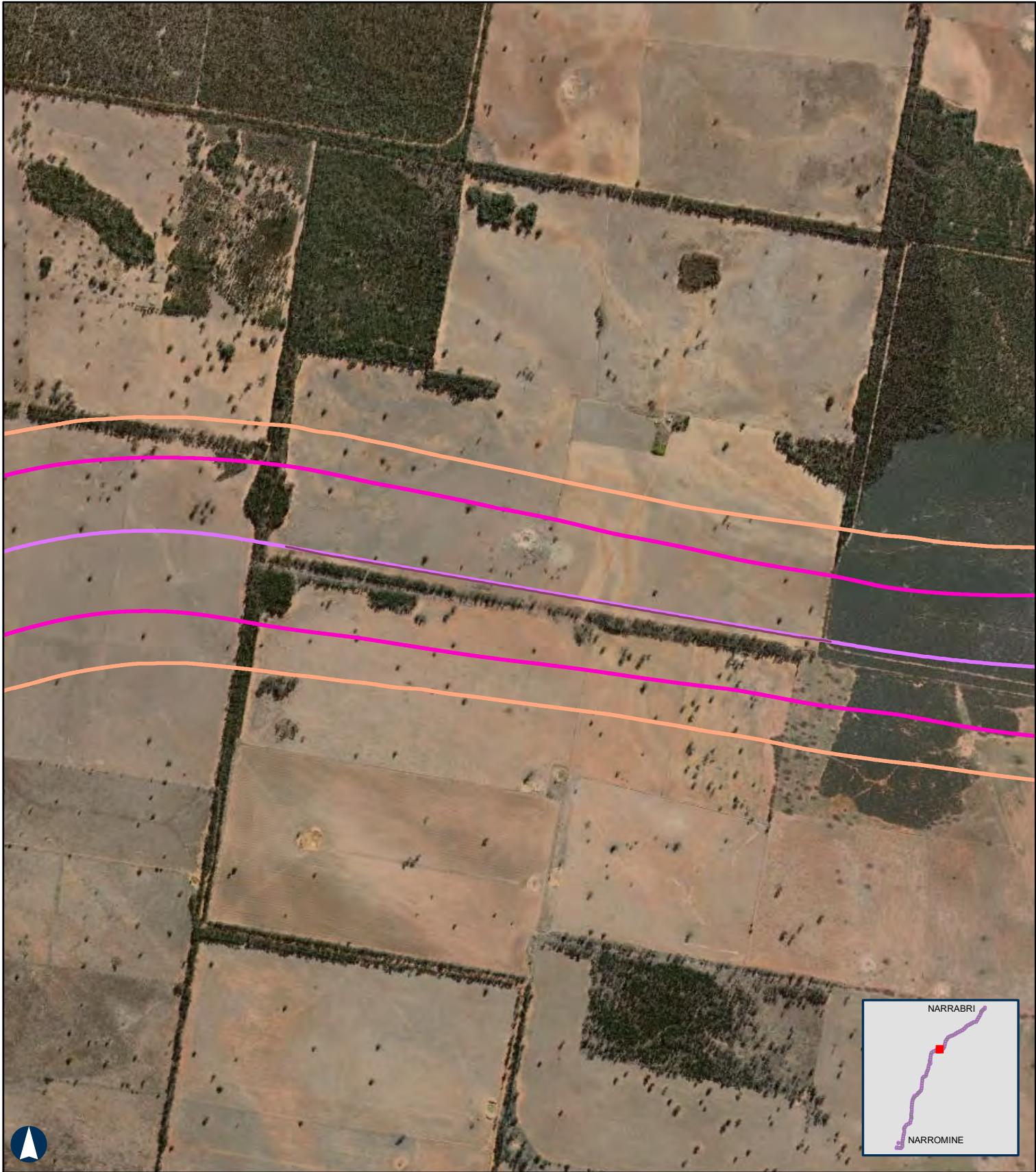
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## Year 2025 Night-time Rail Noise Levels

## APPENDIX D - Map 139 of 168

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Paper: A4  
Date: 31-Jul-2020  
Author: JG

Scale: 1:20,000

- ✗ Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

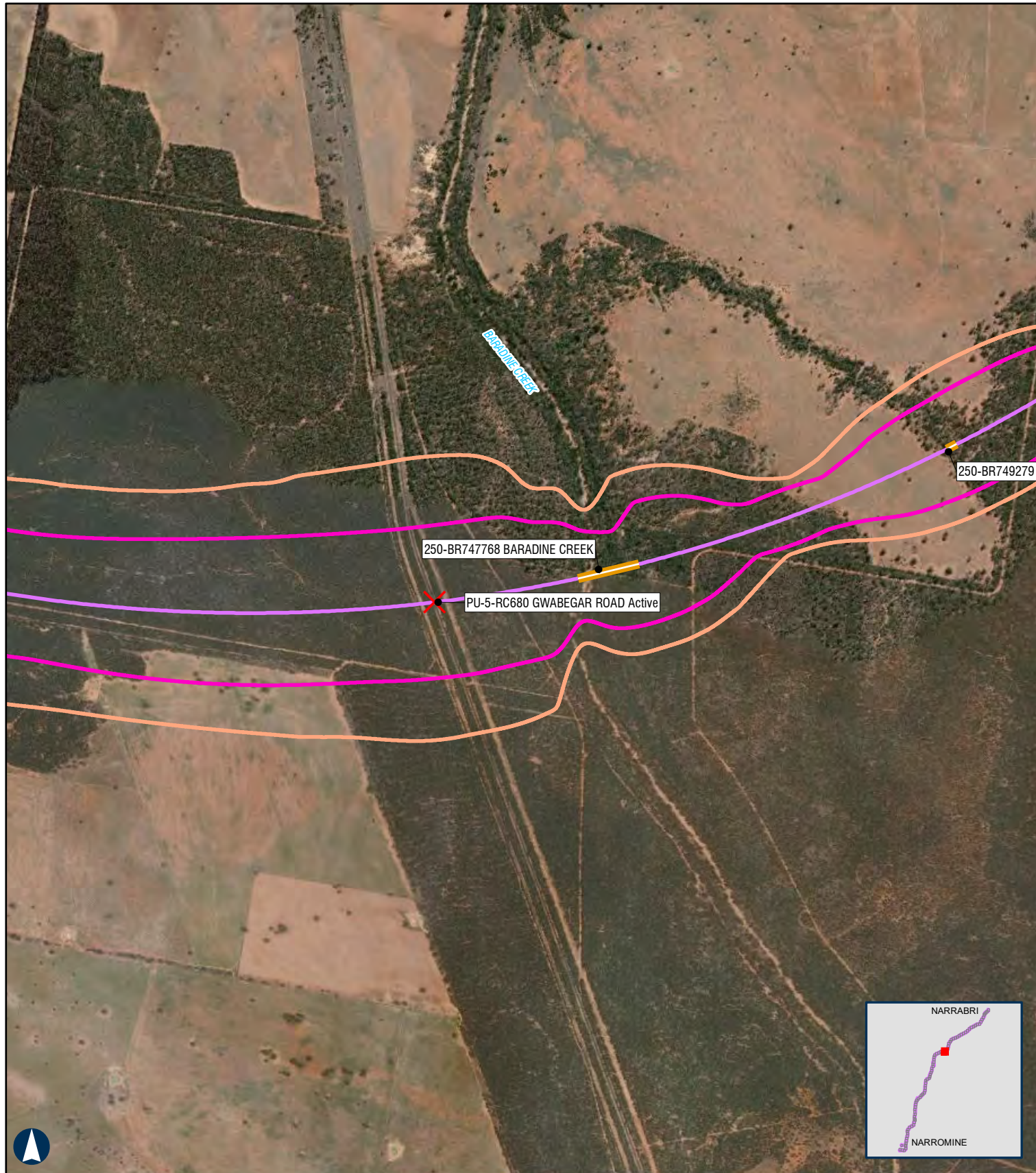
Noise contours are based on a set distance above the local terrain level of 2.4m.

- Night-time noise criteria LAeq 9hr 55dBA new rail corridor
- Night-time noise criteria LAeq 9hr 60dBA upgrading existing rail corridor
- Night-time noise criteria LA max 80dBA new rail corridor
- Night-time noise criteria LA max 85dBA upgrading existing rail corridor

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## NARROMINE TO NARRABRI

## Year 2025 Night-time Rail Noise Levels

## APPENDIX D - Map 140 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Scale: 1:20,000

Date: 31-Jul-2020

Author: JG

- ✗ Level Crossings
- Proposal Extent
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- Bridges and Viaducts
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- Noise Assessment Area – Upgrading Existing Railway

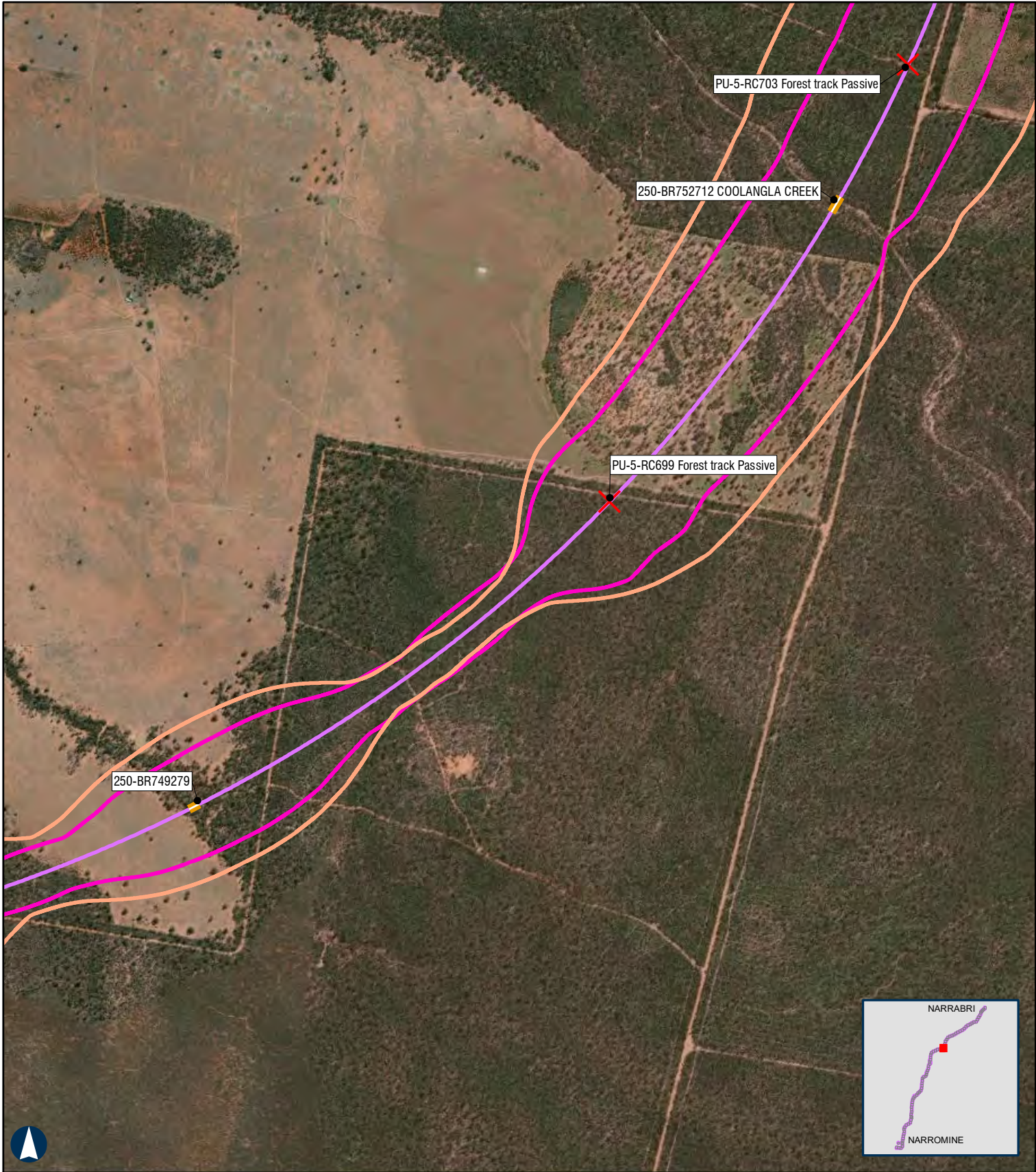
Noise contours are based on a set distance above the local terrain level of 2.4m.

- Night-time noise criteria LAeq 9hr 55dBA new rail corridor
- Night-time noise criteria LAeq 9hr 60dBA upgrading existing rail corridor
- Night-time noise criteria LA max 80dBA new rail corridor
- Night-time noise criteria LA max 85dBA upgrading existing rail corridor

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## NARROMINE TO NARRABRI

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## Year 2025 Night-time Rail Noise Levels

X Level Crossings

— Proposal Extent

— Crossing Loops

— Rail Alignment/Centreline

— Bridges and Viaducts

■ Sensitive Receivers

■ 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 LAeq 9hr 55dBA new rail corridor

— Night-time noise criteria LAeq 9hr 60dBA upgrading existing rail corridor

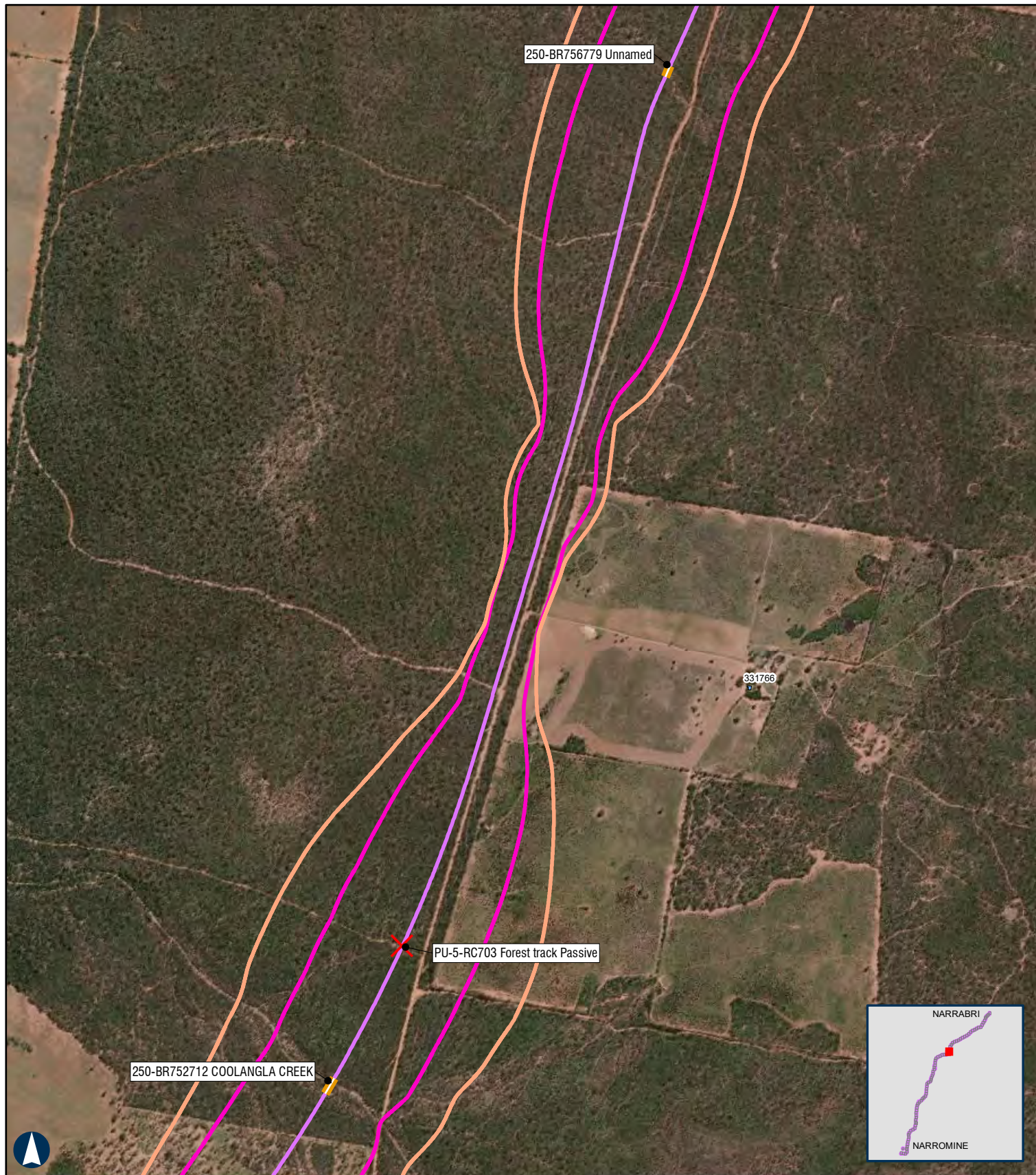
— Night-time noise criteria LA max 80dBA new rail corridor

— Night-time noise criteria LA max 85dBA upgrading existing rail corridor

## APPENDIX D - Map 141 of 168

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## NARROMINE TO NARRABRI

## Year 2025 Night-time Rail Noise Levels

## APPENDIX D - Map 142 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4

Scale: 1:20,000

Date: 31-Jul-2020

Author: JG

- X Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

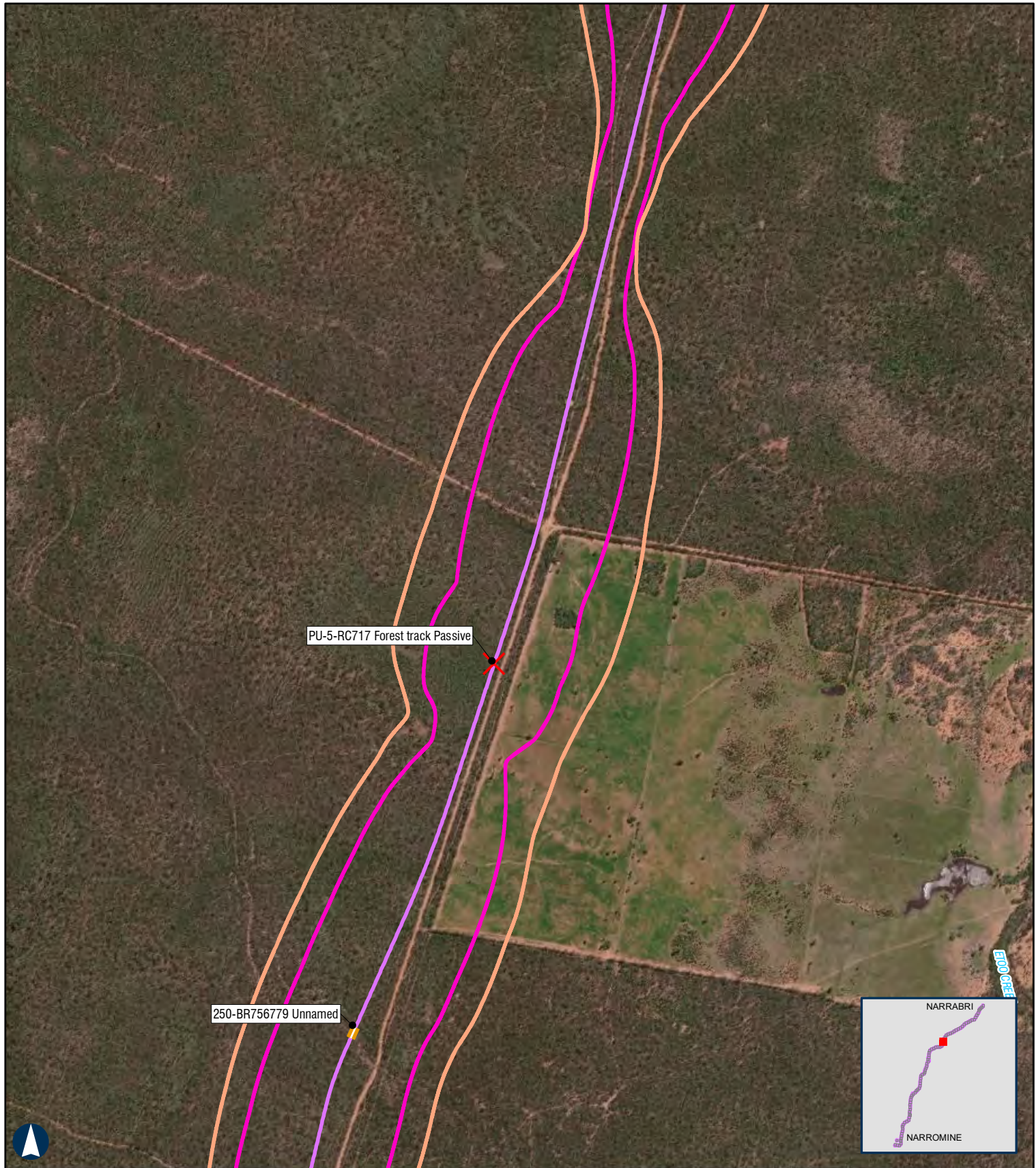
Noise contours are based on a set distance above the local terrain level of 2.4m.

- Night-time noise criteria LAeq 9hr 55dBA new rail corridor
- Night-time noise criteria LAeq 9hr 60dBA upgrading existing rail corridor
- Night-time noise criteria LA max 80dBA new rail corridor
- Night-time noise criteria LA max 85dBA upgrading existing rail corridor

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## NARROMINE TO NARRABRI

## Year 2025 Night-time Rail Noise Levels

## APPENDIX D - Map 143 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Scale: 1:20,000

Date: 31-Jul-2020

Author: JG

- Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

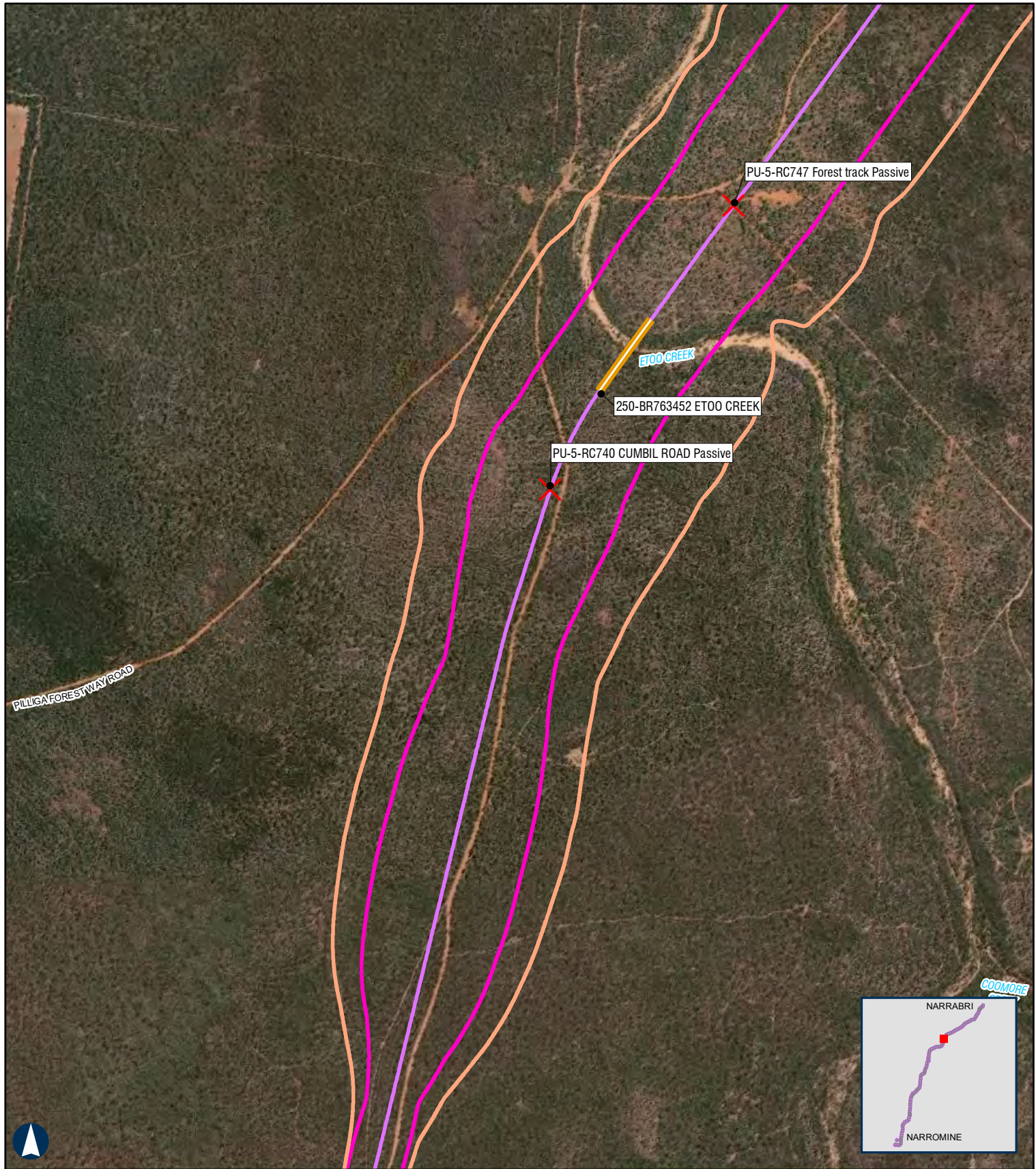
Noise contours are based on a set distance above the local terrain level of 2.4m.

- Night-time noise criteria LAeq 9hr 55dBA new rail corridor
- Night-time noise criteria LAeq 9hr 60dBA upgrading existing rail corridor
- Night-time noise criteria LA max 80dBA new rail corridor
- Night-time noise criteria LA max 85dBA upgrading existing rail corridor



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## NARROMINE TO NARRABRI

## Year 2025 Night-time Rail Noise Levels

## APPENDIX D - Map 144 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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- ✕ Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

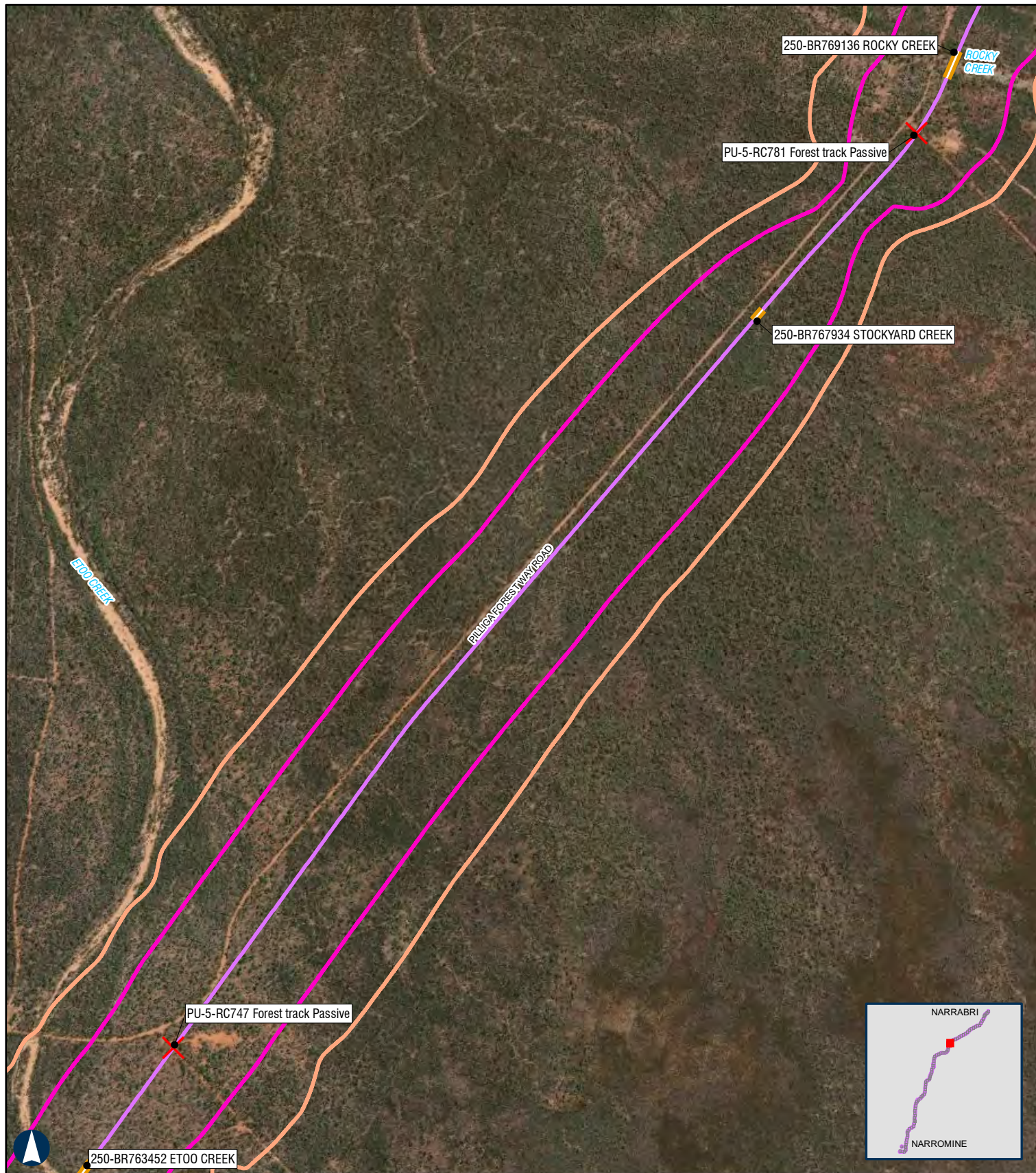
Noise contours are based on a set distance above the local terrain level of 2.4m.

- Night-time noise criteria LAeq 9hr 55dBA new rail corridor
- Night-time noise criteria LAeq 9hr 60dBA upgrading existing rail corridor
- Night-time noise criteria LA max 80dBA new rail corridor
- Night-time noise criteria LA max 85dBA upgrading existing rail corridor

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## NARROMINE TO NARRABRI

## Year 2025 Night-time Rail Noise Levels

## APPENDIX D - Map 145 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Author: JG

Scale: 1:20,000

- Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

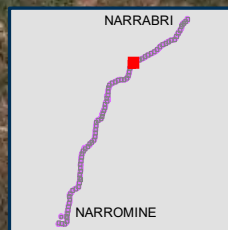
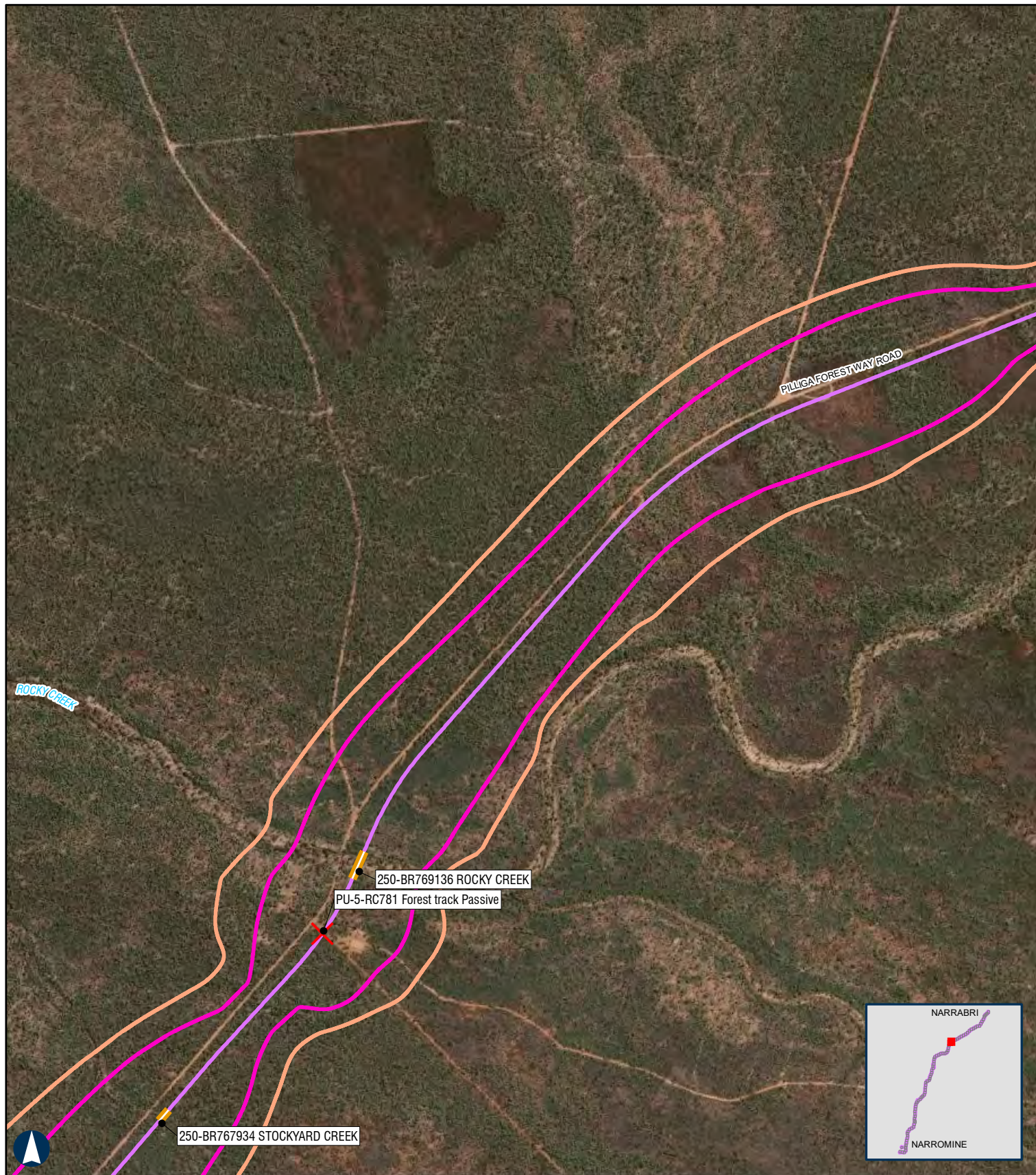
Noise contours are based on a set distance above the local terrain level of 2.4m.

- Night-time noise criteria LAeq 9hr 55dBA new rail corridor
- Night-time noise criteria LAeq 9hr 60dBA upgrading existing rail corridor
- Night-time noise criteria LA max 80dBA new rail corridor
- Night-time noise criteria LA max 85dBA upgrading existing rail corridor

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## NARROMINE TO NARRABRI

## Year 2025 Night-time Rail Noise Levels

## APPENDIX D - Map 146 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Author: JG

- ✕ Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

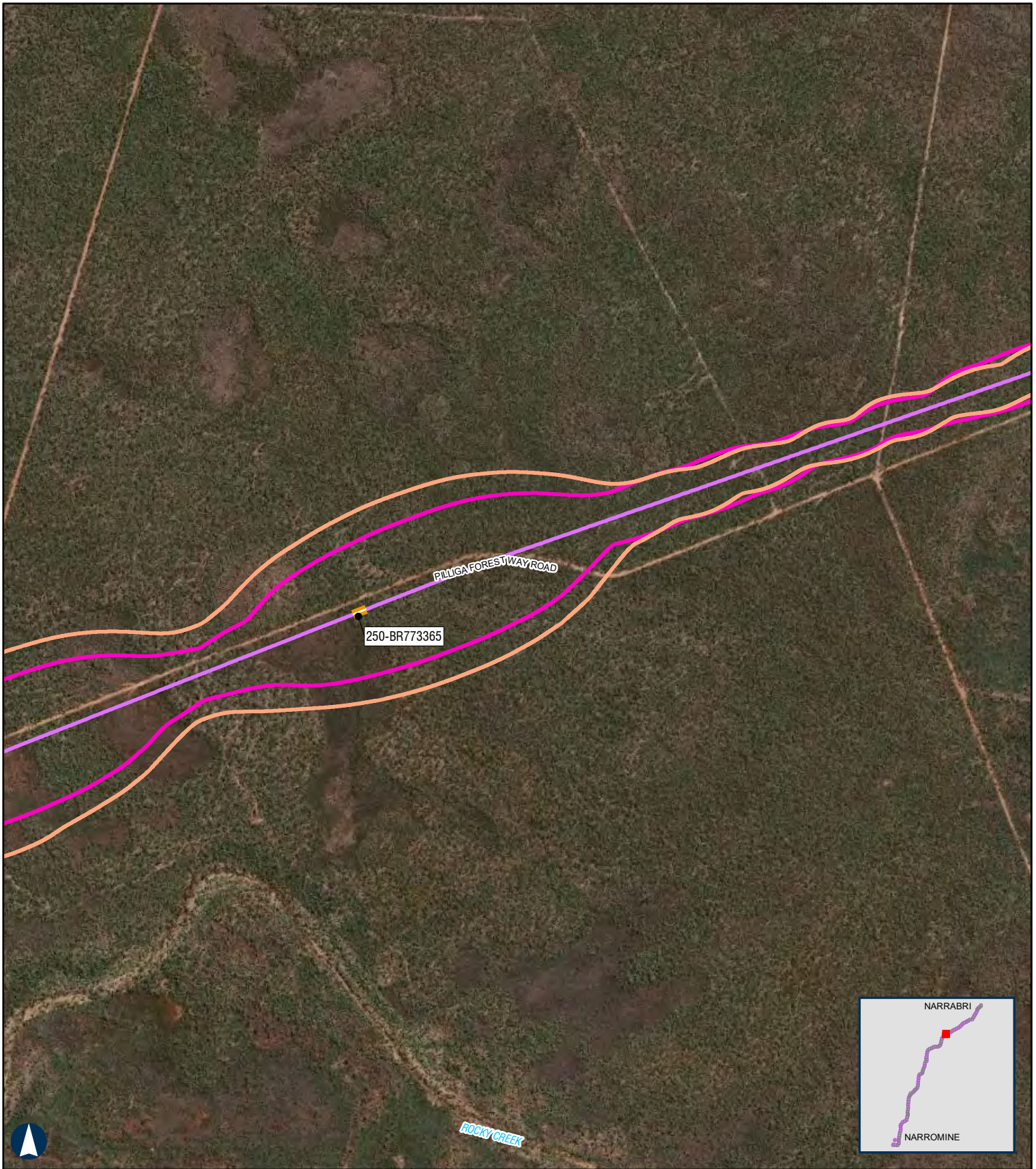
Noise contours are based on a set distance above the local terrain level of 2.4m.

- Night-time noise criteria LAeq 9hr 55dBA new rail corridor
- Night-time noise criteria LAeq 9hr 60dBA upgrading existing rail corridor
- Night-time noise criteria LA max 80dBA new rail corridor
- Night-time noise criteria LA max 85dBA upgrading existing rail corridor

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## NARROMINE TO NARRABRI

## Year 2025 Night-time Rail Noise Levels

## APPENDIX D - Map 147 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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- Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

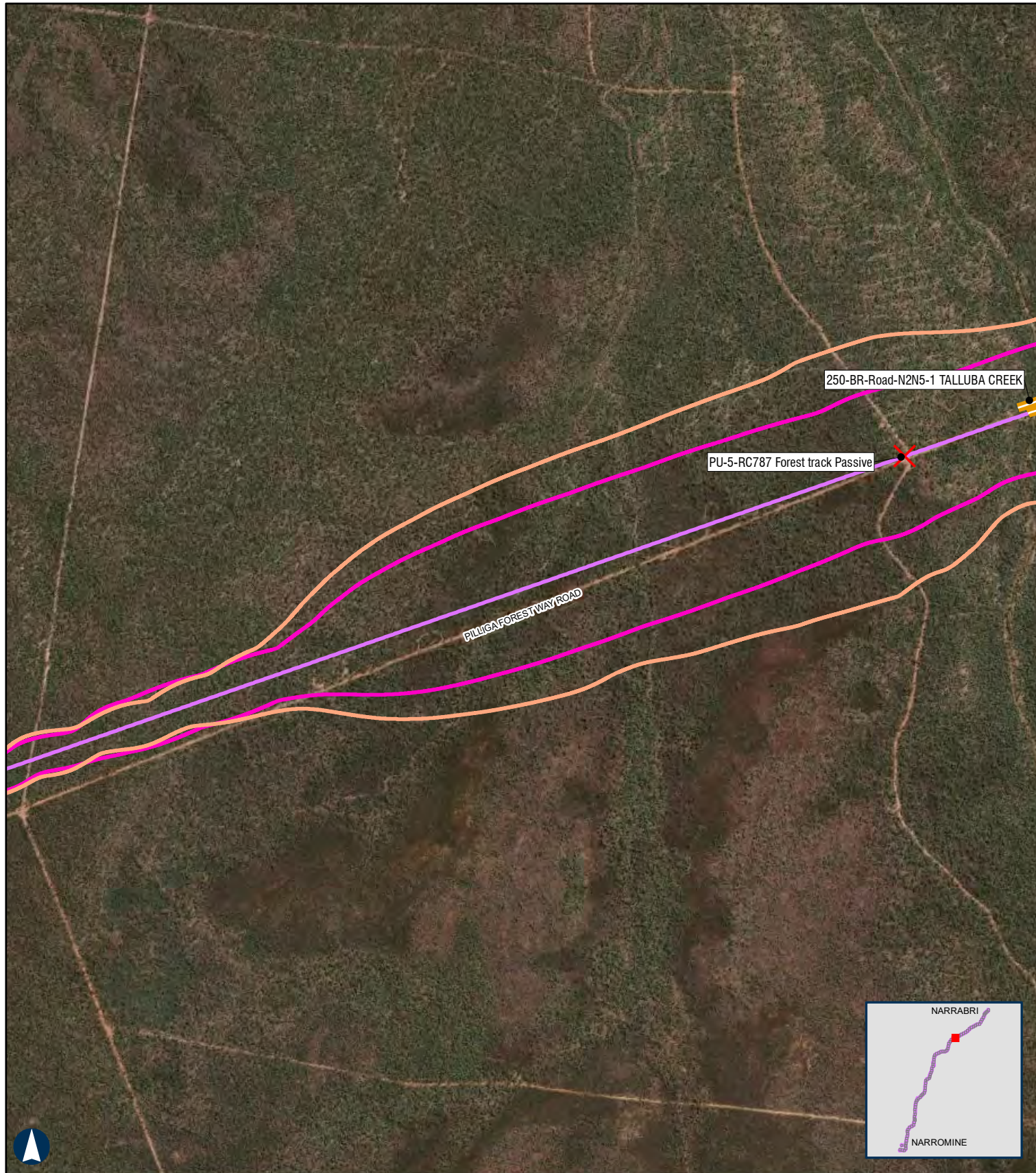
Noise contours are based on a set distance above the local terrain level of 2.4m.

- Night-time noise criteria LAeq 9hr 55dBA new rail corridor
- Night-time noise criteria LAeq 9hr 60dBA upgrading existing rail corridor
- Night-time noise criteria LA max 80dBA new rail corridor
- Night-time noise criteria LA max 85dBA upgrading existing rail corridor



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## NARROMINE TO NARRABRI

## Year 2025 Night-time Rail Noise Levels

## APPENDIX D - Map 148 of 168

500 m

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- Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

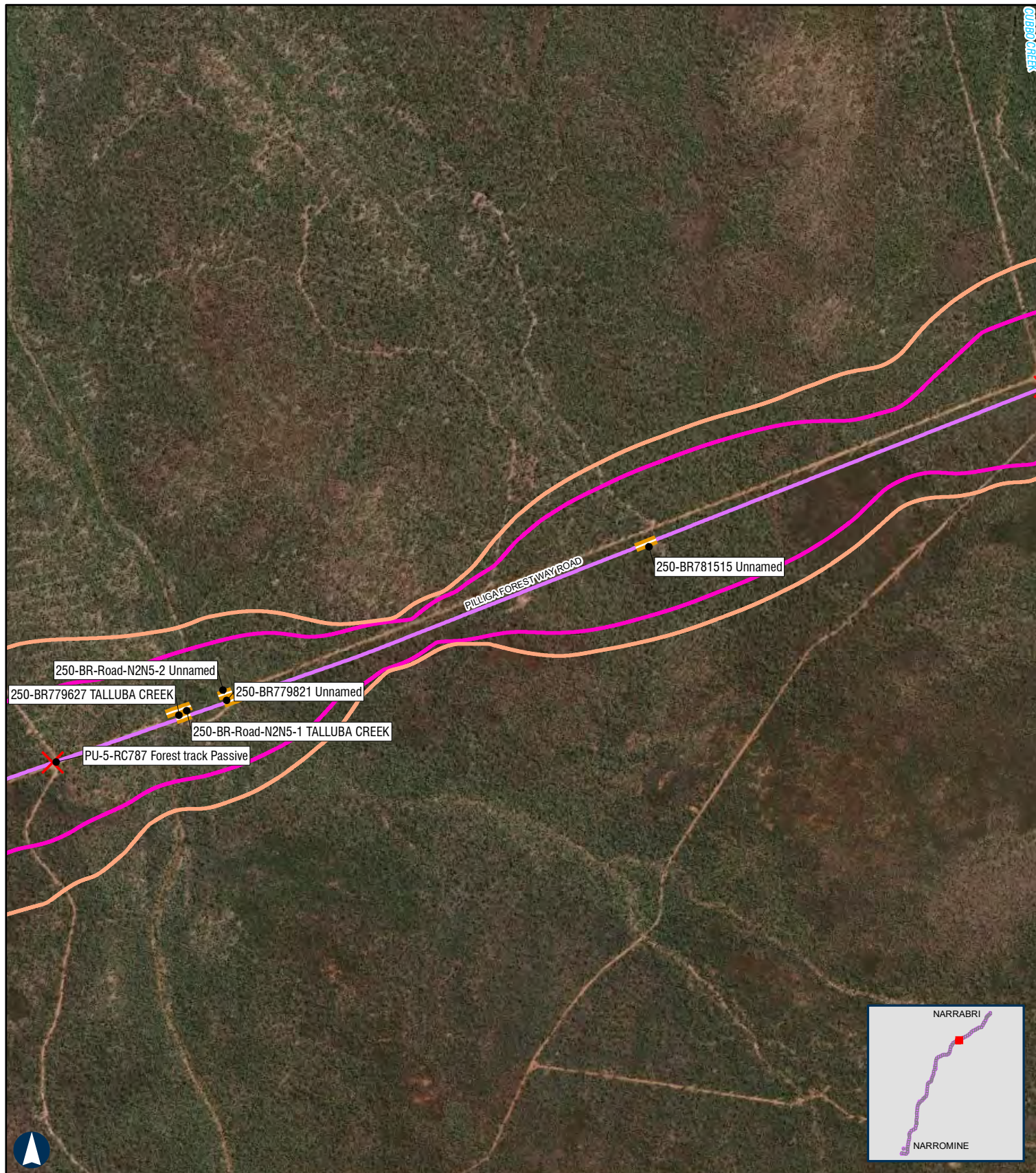
Noise contours are based on a set distance above the local terrain level of 2.4m.

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- Night-time noise criteria LA max 80dBA new rail corridor
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## NARROMINE TO NARRABRI

## Year 2025 Night-time Rail Noise Levels

## APPENDIX D - Map 149 of 168

500 m

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Author: JG

- Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

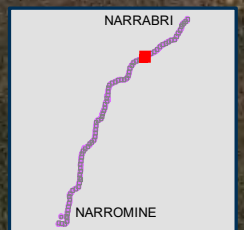
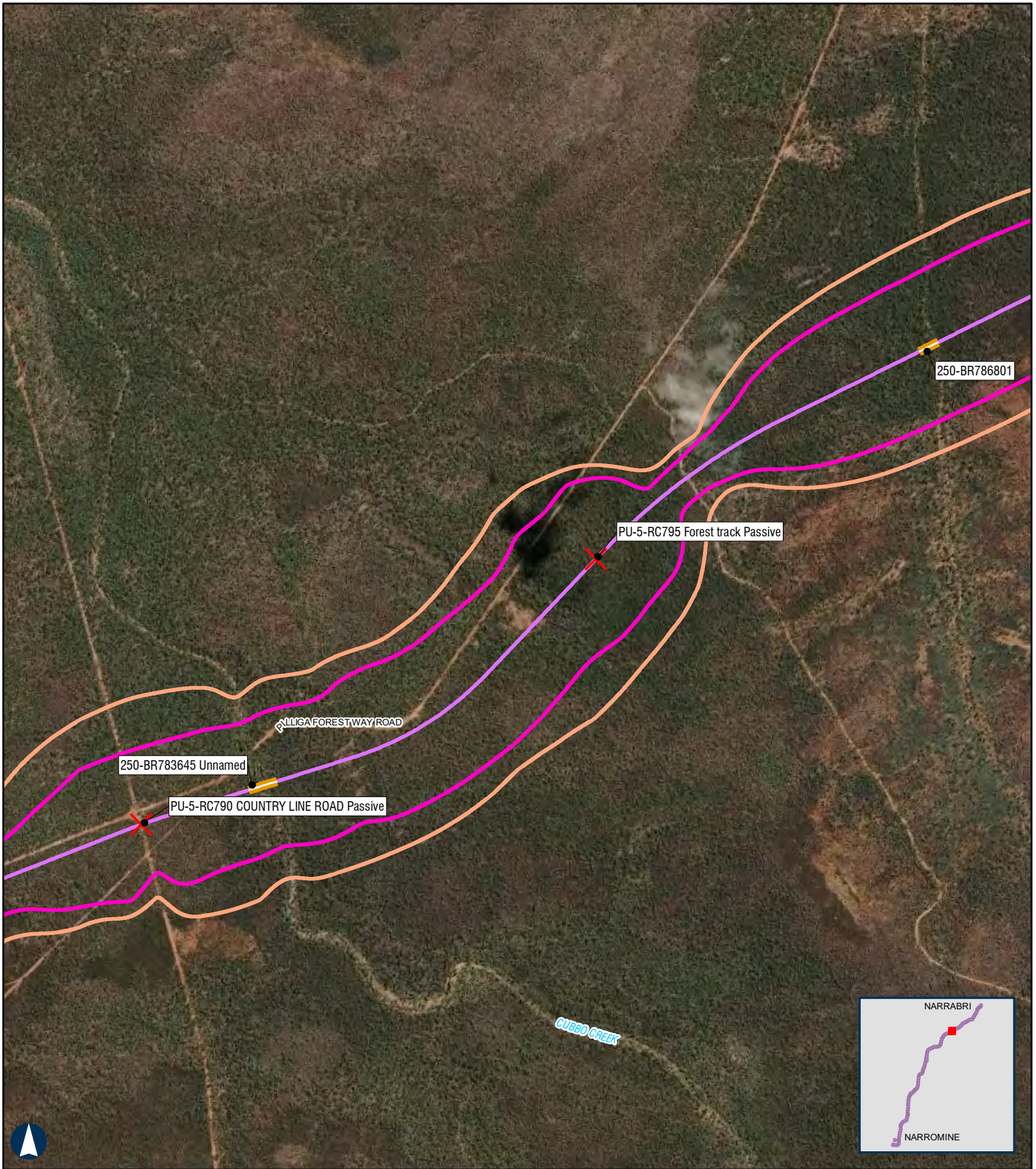
Noise contours are based on a set distance above the local terrain level of 2.4m.

- Night-time noise criteria LAeq 9hr 55dBA new rail corridor
- Night-time noise criteria LAeq 9hr 60dBA upgrading existing rail corridor
- Night-time noise criteria LA max 80dBA new rail corridor
- Night-time noise criteria LA max 85dBA upgrading existing rail corridor

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## NARROMINE TO NARRABRI

## Year 2025 Night-time Rail Noise Levels

## APPENDIX D - Map 150 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Author: JG

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- Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

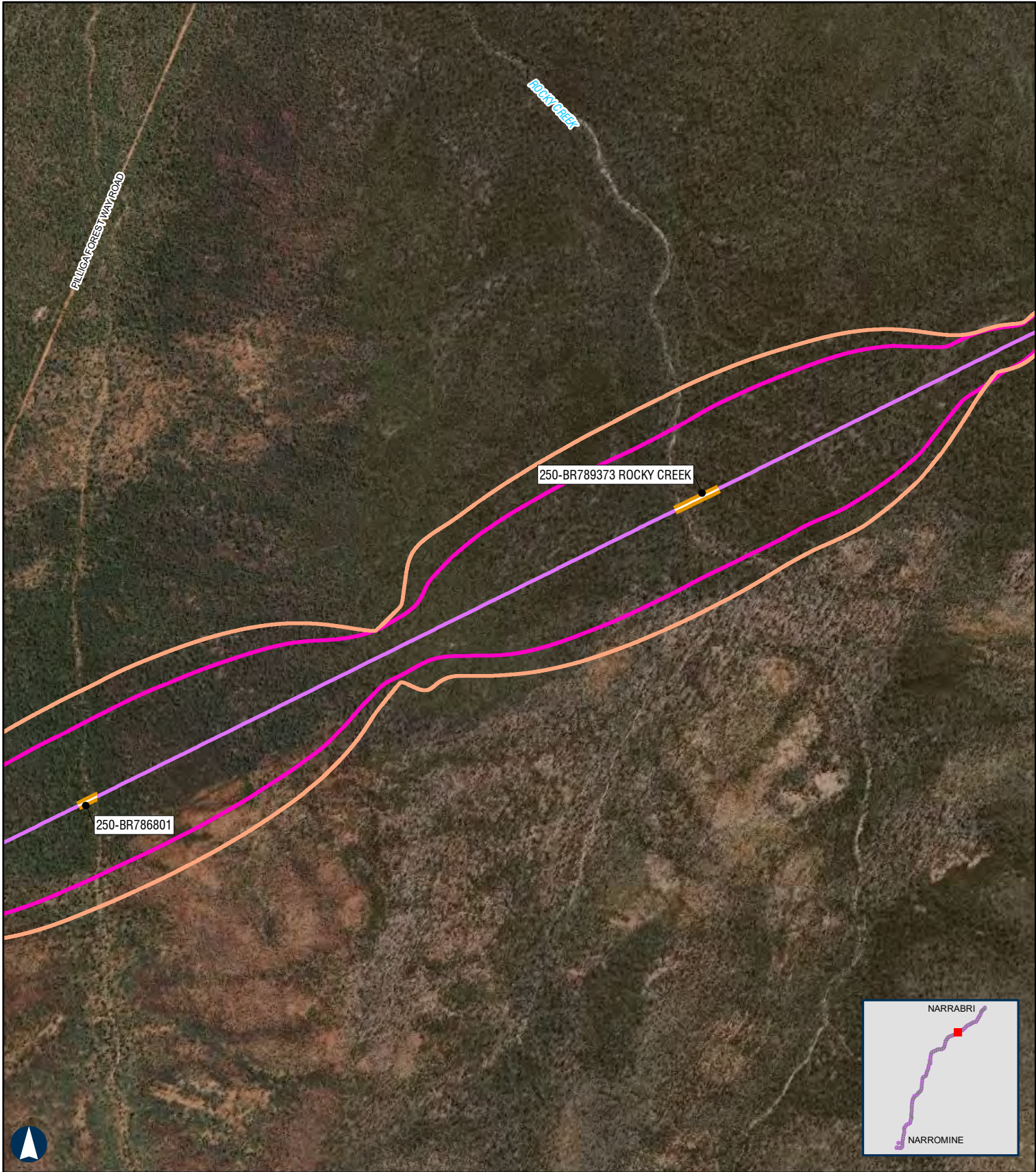
Noise contours are based on a set distance above the local terrain level of 2.4m.

- Night-time noise criteria LAeq 9hr 55dBA new rail corridor
- Night-time noise criteria LAeq 9hr 60dBA upgrading existing rail corridor
- Night-time noise criteria LA max 80dBA new rail corridor
- Night-time noise criteria LA max 85dBA upgrading existing rail corridor

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**NARROMINE TO NARRABRI**

**Year 2025 Night-time Rail Noise Levels**

**APPENDIX D - Map 151 of 168**

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Date: 31-Jul-2020  
Author: JG

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- ✗ Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- ▭ Bridges and Viaducts
- Sensitive Receivers
- ▭ Noise Assessment Area – Upgrading Existing Railway

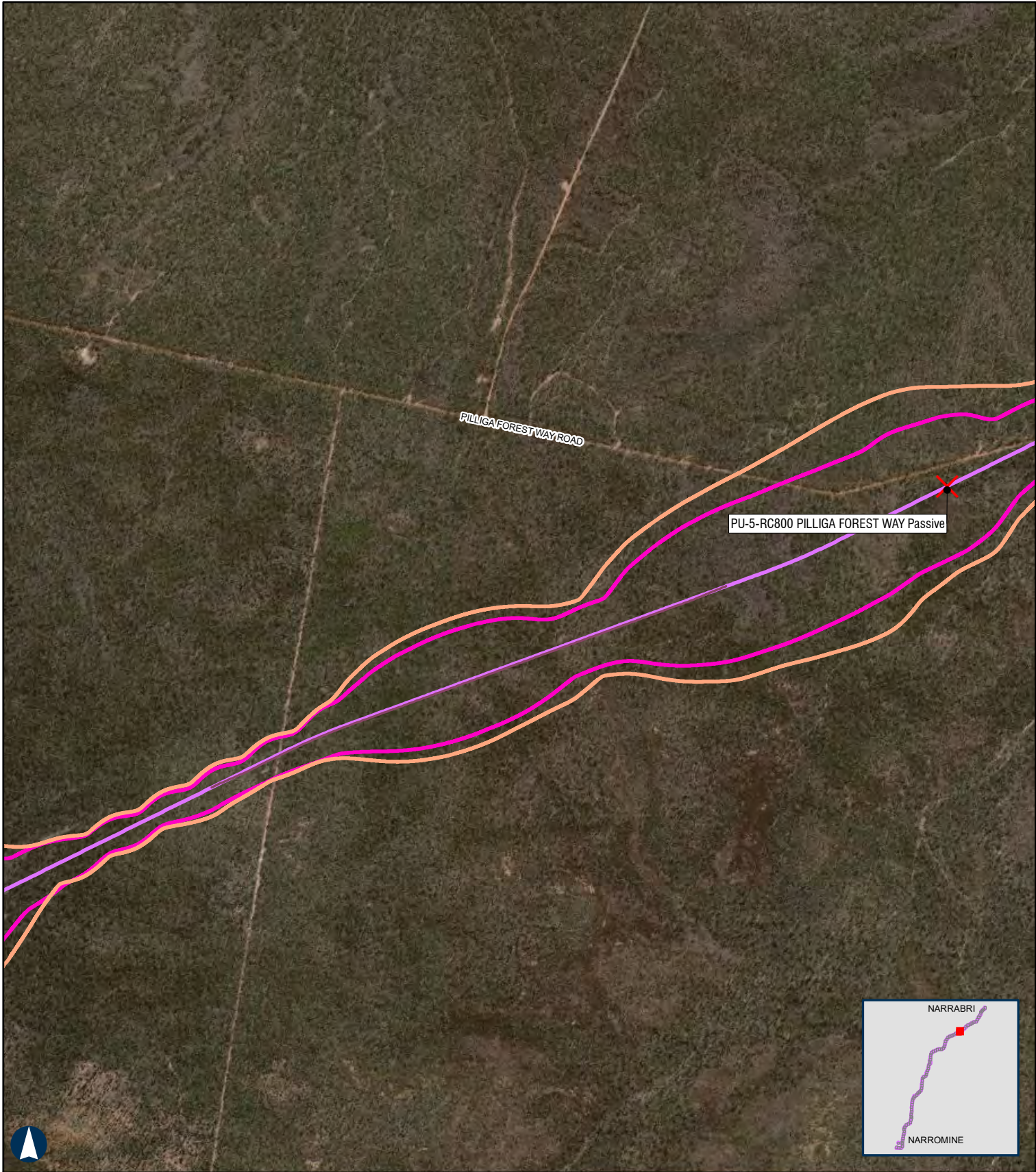
Noise contours are based on a set distance above the local terrain level of 2.4m.

- Night-time noise criteria LAeq 9hr 55dBA new rail corridor
- Night-time noise criteria LAeq 9hr 60dBA upgrading existing rail corridor
- Night-time noise criteria LA max 80dBA new rail corridor
- Night-time noise criteria LA max 85dBA upgrading existing rail corridor



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500 m

Coordinate System: GDA 1994 MGA Zone 55

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Level Crossings

—

Proposal Extent

—

Crossing Loops

—

Rail Alignment/Centreline

—

Bridges and Viaducts

■

Sensitive Receivers

■

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 LAeq 9hr 55dBA new rail corridor

—

Night-time noise criteria LAeq 9hr 60dBA upgrading existing rail corridor

—

Night-time noise criteria LA max 80dBA new rail corridor

—

Night-time noise criteria LA max 85dBA upgrading existing rail corridor

APPENDIX D - Map 152 of 168

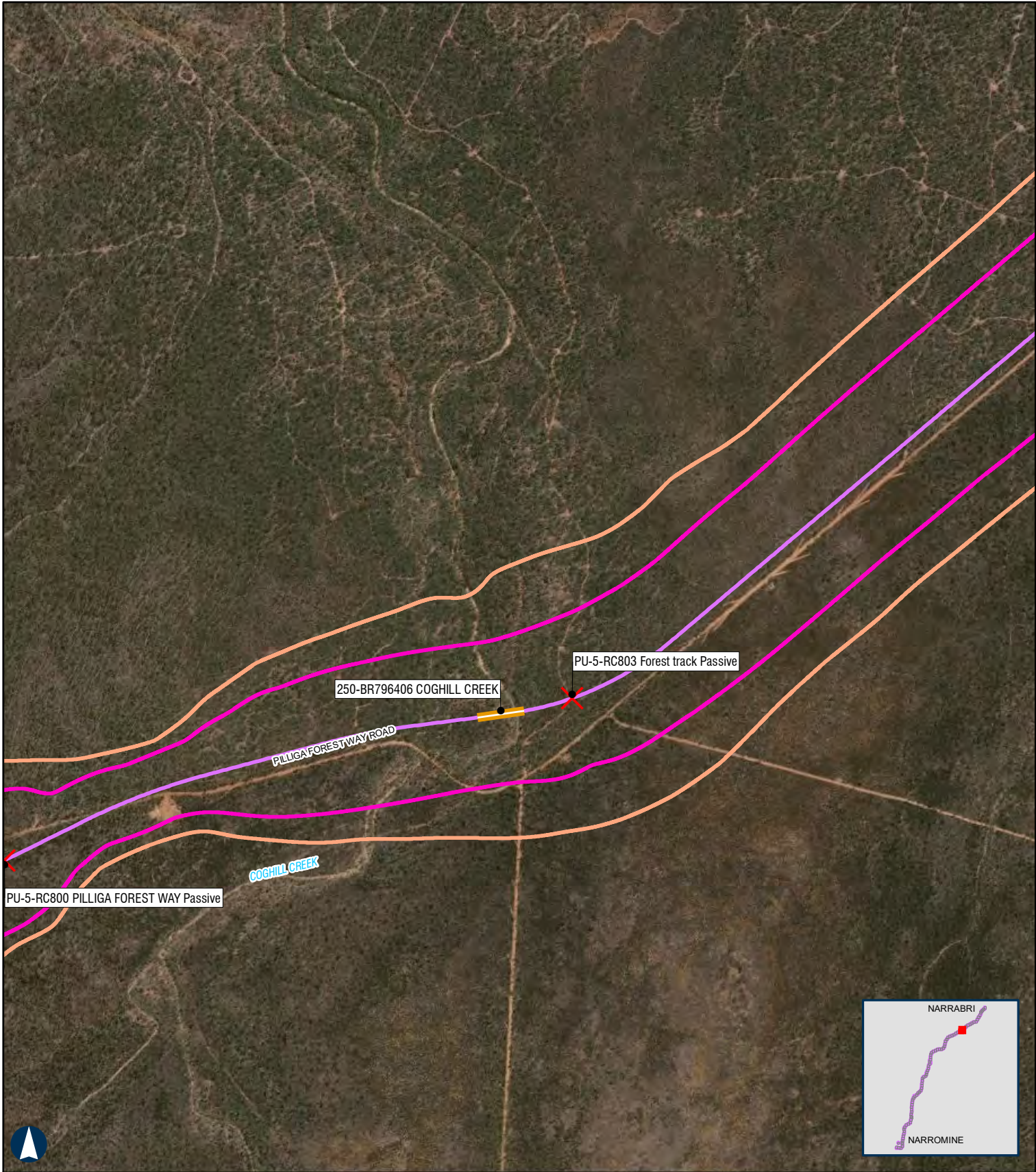
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H:\Projects-SLR\620-BNE\620-BNE\620.12209 Inland Rail\06 SLR Data\06 CAD\GIS\ArcGIS\N2N\SLR62012209\_N2N\_Night 2025.mxd  
Service Layer Credits: Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community





NARROMINE TO NARRABRI

Year 2025 Night-time Rail Noise Levels

APPENDIX D - Map 153 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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✗

Level Crossings

—

Proposal Extent

—

Crossing Loops

—

Rail Alignment/Centreline

—

Bridges and Viaducts

■

Sensitive Receivers

■

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 LAeq 9hr 55dBA new rail corridor

—

Night-time noise criteria LAeq 9hr 60dBA upgrading existing rail corridor

—

Night-time noise criteria LA max 80dBA new rail corridor

—

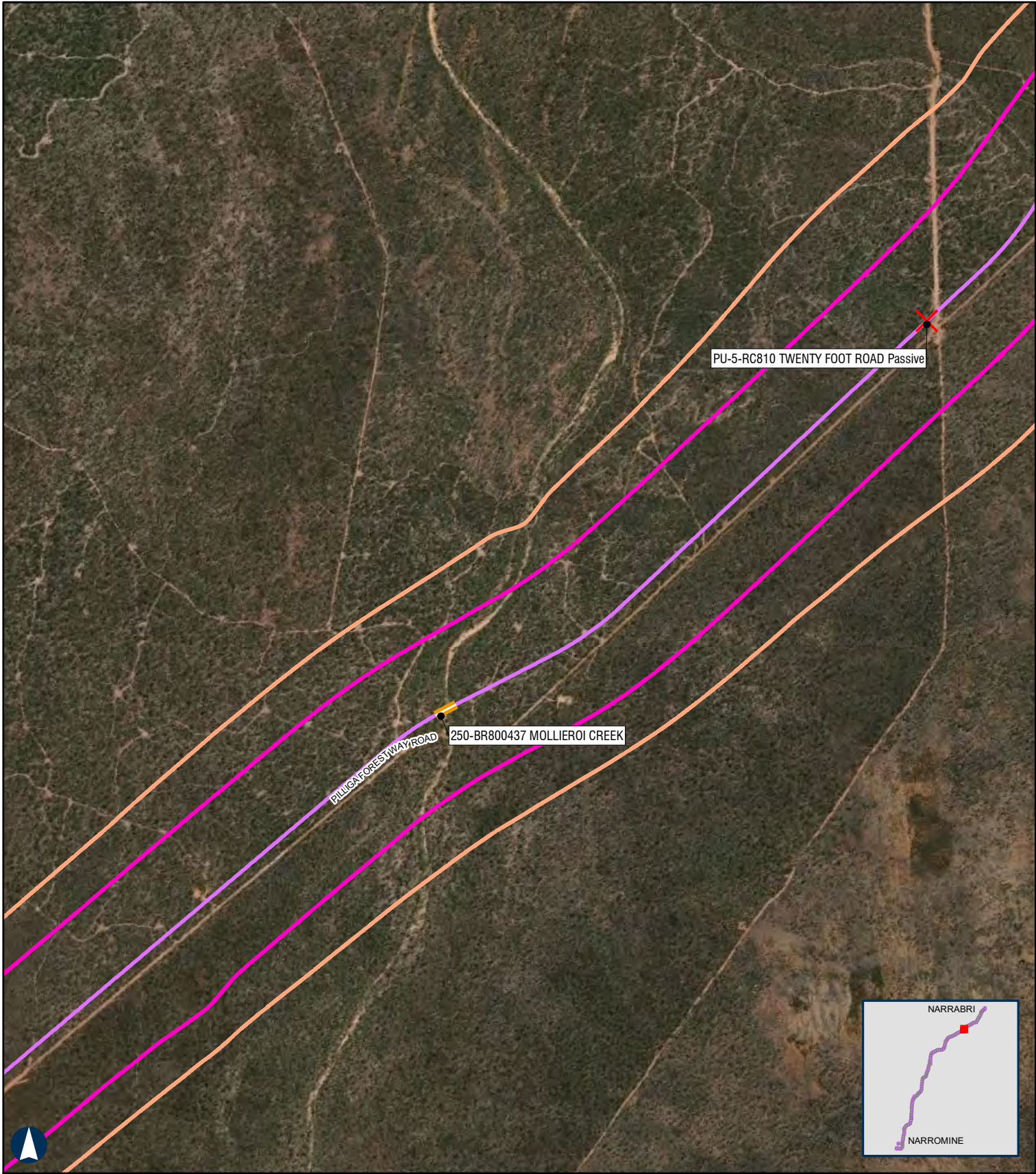
Night-time noise criteria LA max 85dBA upgrading existing rail corridor

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500 m

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Author: JG

Scale: 1:20,000

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

✕

Level Crossings

—

Proposal Extent

—

Crossing Loops

—

Rail Alignment/Centreline

—

Bridges and Viaducts

—

Sensitive Receivers

—

Noise Assessment Area – Upgrading Existing Railway

Night-time noise criteria LAeq 9hr  
55dBA new rail corridor

Night-time noise criteria LAeq 9hr  
60dBA upgrading existing rail corridor

Night-time noise criteria LA max  
80dBA new rail corridor

Night-time noise criteria LA max  
85dBA upgrading existing rail corridor

APPENDIX D - Map 154 of 168

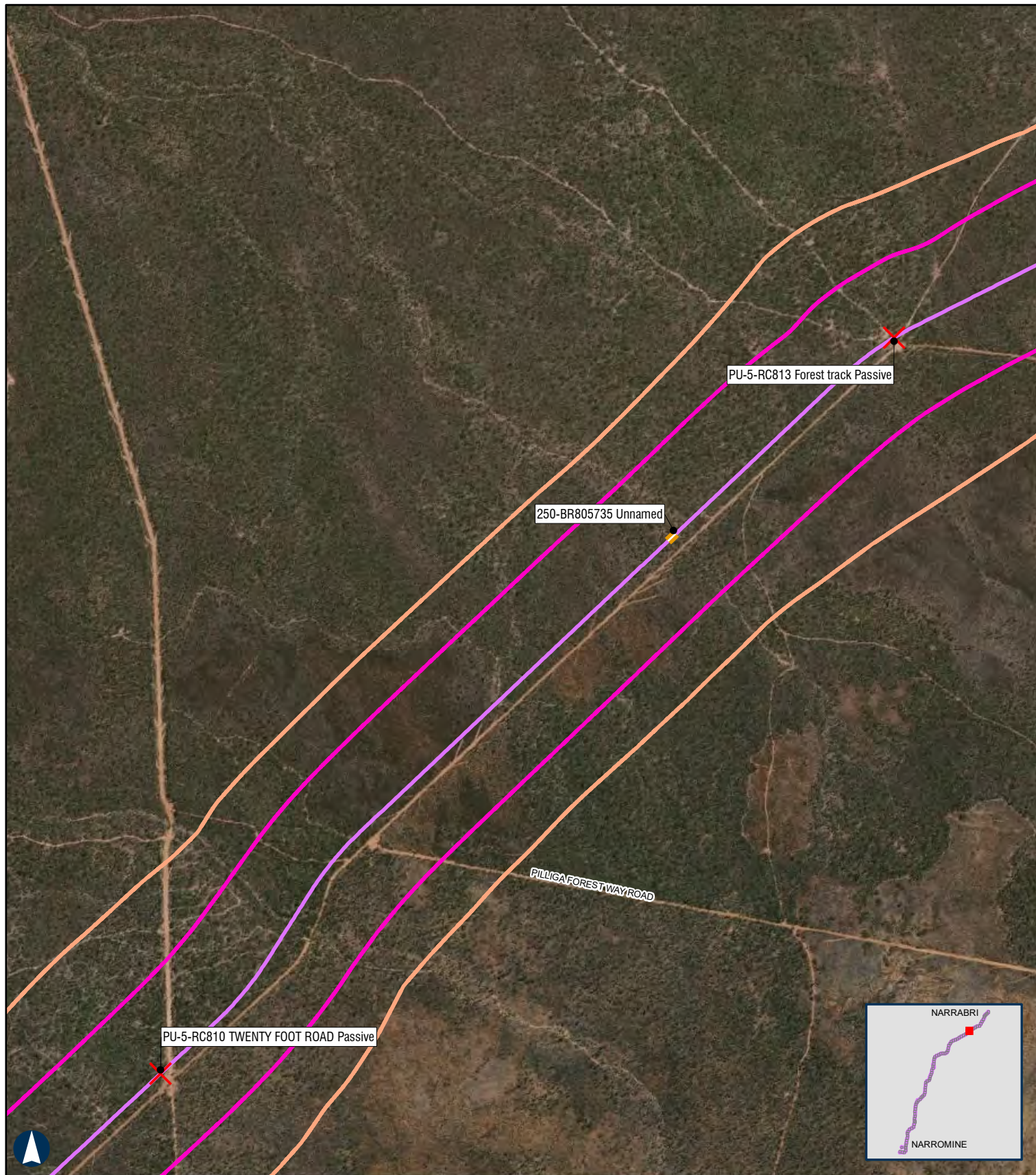
ARTC

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H:\Projects-SLR\620-BNE\620-BNE\620.12209 Inland Rail\06 SLR Data\06 CAD\GIS\ArcGIS\N2N\SLR62012209\_N2N\_Night 2025.mxd  
Service Layer Credits: Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community





## NARROMINE TO NARRABRI

## Year 2025 Night-time Rail Noise Levels

## APPENDIX D - Map 155 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4

Scale: 1:20,000

Date: 31-Jul-2020

Author: JG

- Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

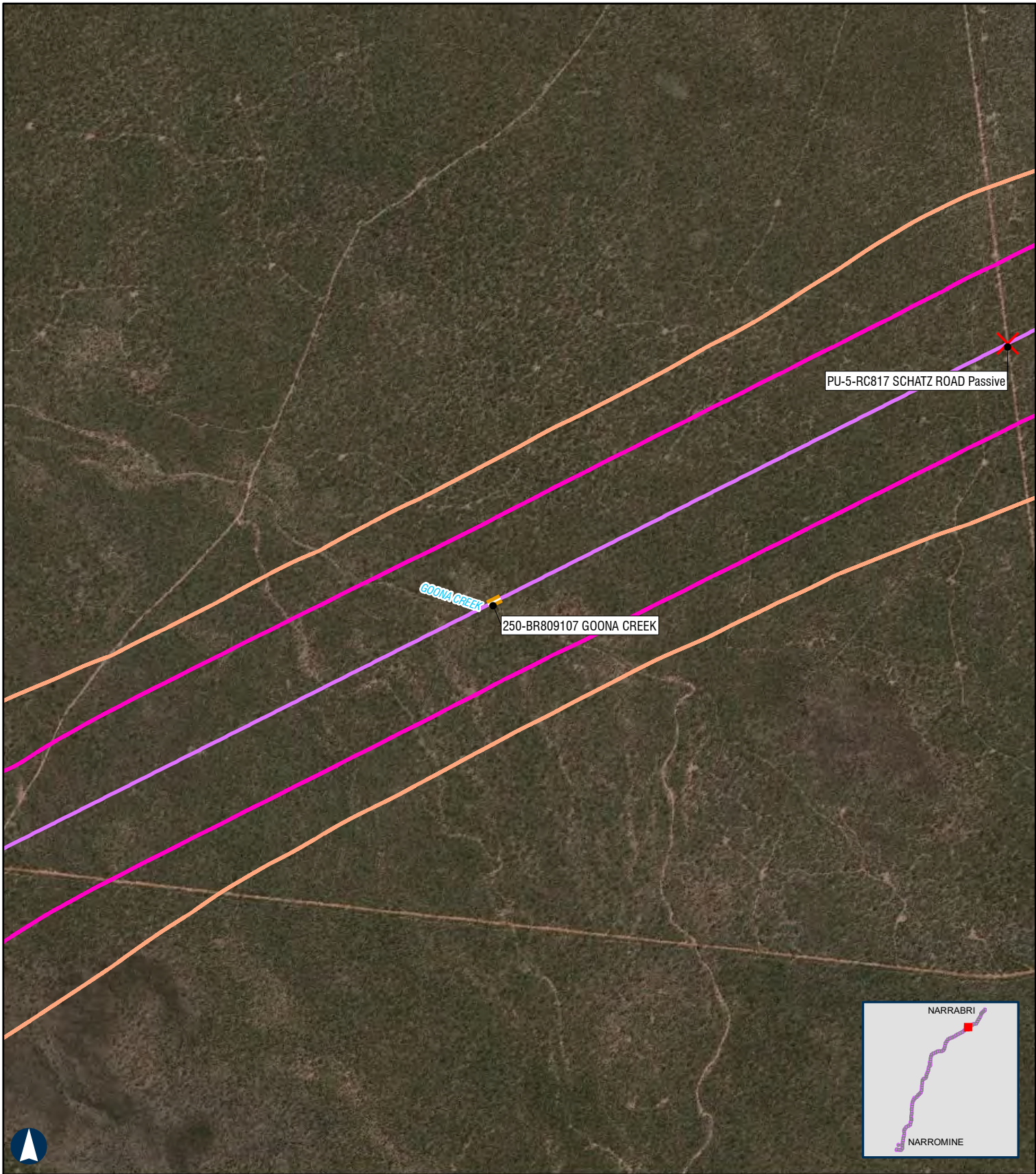
Noise contours are based on a set distance above the local terrain level of 2.4m.

- Night-time noise criteria LAeq 9hr 55dBA new rail corridor
- Night-time noise criteria LAeq 9hr 60dBA upgrading existing rail corridor
- Night-time noise criteria LA max 80dBA new rail corridor
- Night-time noise criteria LA max 85dBA upgrading existing rail corridor

**ARTC** **InlandRail**

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## NARROMINE TO NARRABRI

## Year 2025 Night-time Rail Noise Levels

## APPENDIX D - Map 156 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4

Scale: 1:20,000

Date: 31-Jul-2020

Author: JG

- Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

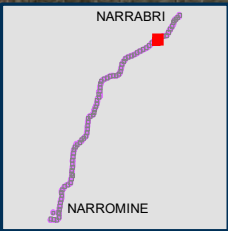
Noise contours are based on a set distance above the local terrain level of 2.4m.

- Night-time noise criteria LAeq 9hr 55dBA new rail corridor
- Night-time noise criteria LAeq 9hr 60dBA upgrading existing rail corridor
- Night-time noise criteria LA max 80dBA new rail corridor
- Night-time noise criteria LA max 85dBA upgrading existing rail corridor



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## NARROMINE TO NARRABRI

## Year 2025 Night-time Rail Noise Levels

## APPENDIX D - Map 157 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Author: JG

Scale: 1:20,000

- ✗ Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

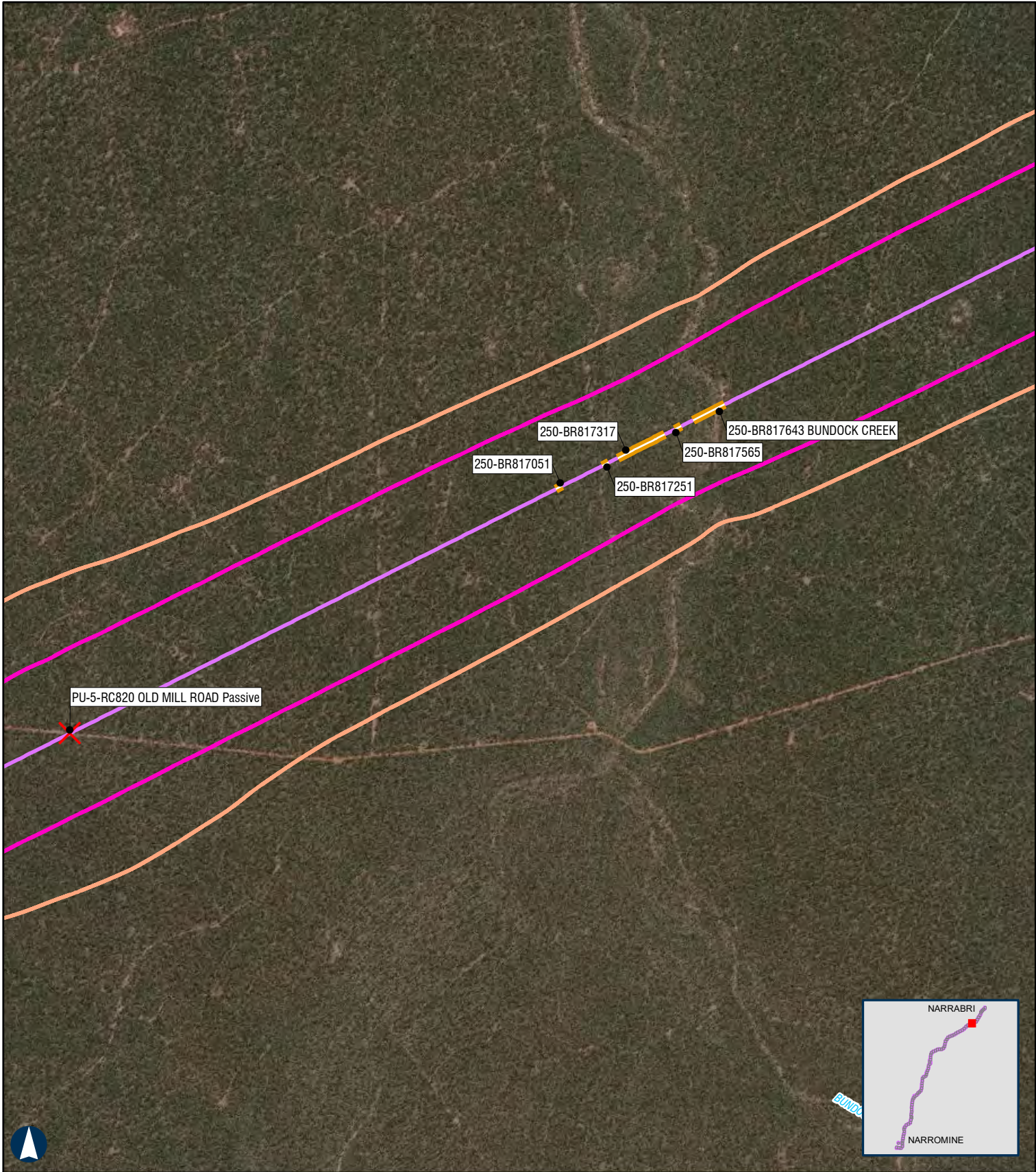
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## NARROMINE TO NARRABRI

## Year 2025 Night-time Rail Noise Levels

## APPENDIX D - Map 158 of 168

500 m

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- ✗ Level Crossings
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- Crossing Loops
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- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

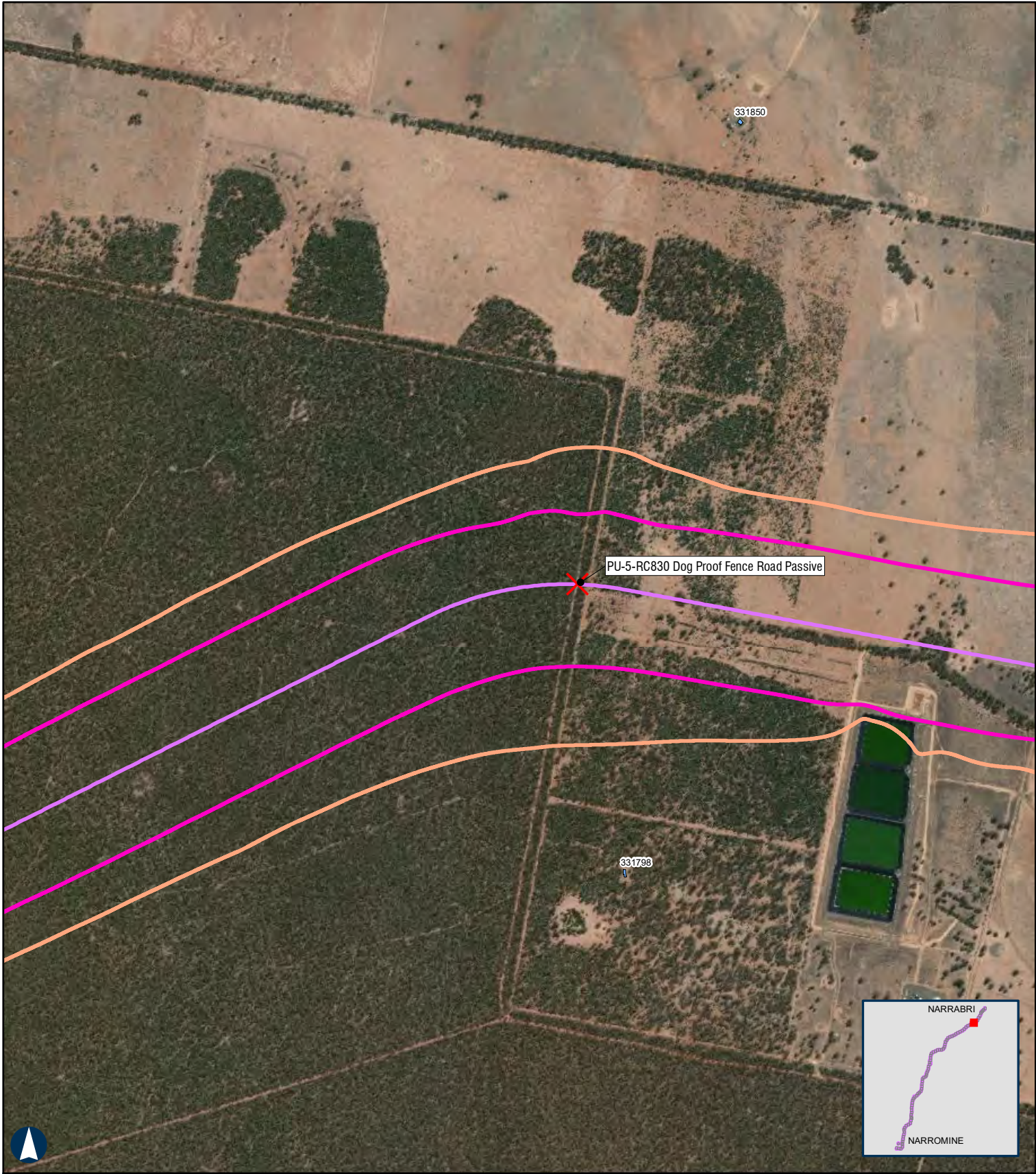
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**NARROMINE TO NARRABRI**

**Year 2025 Night-time Rail Noise Levels**

**APPENDIX D - Map 159 of 168**

500 m

Coordinate System: GDA 1994 MGA Zone 55

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- ✗ Level Crossings
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- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

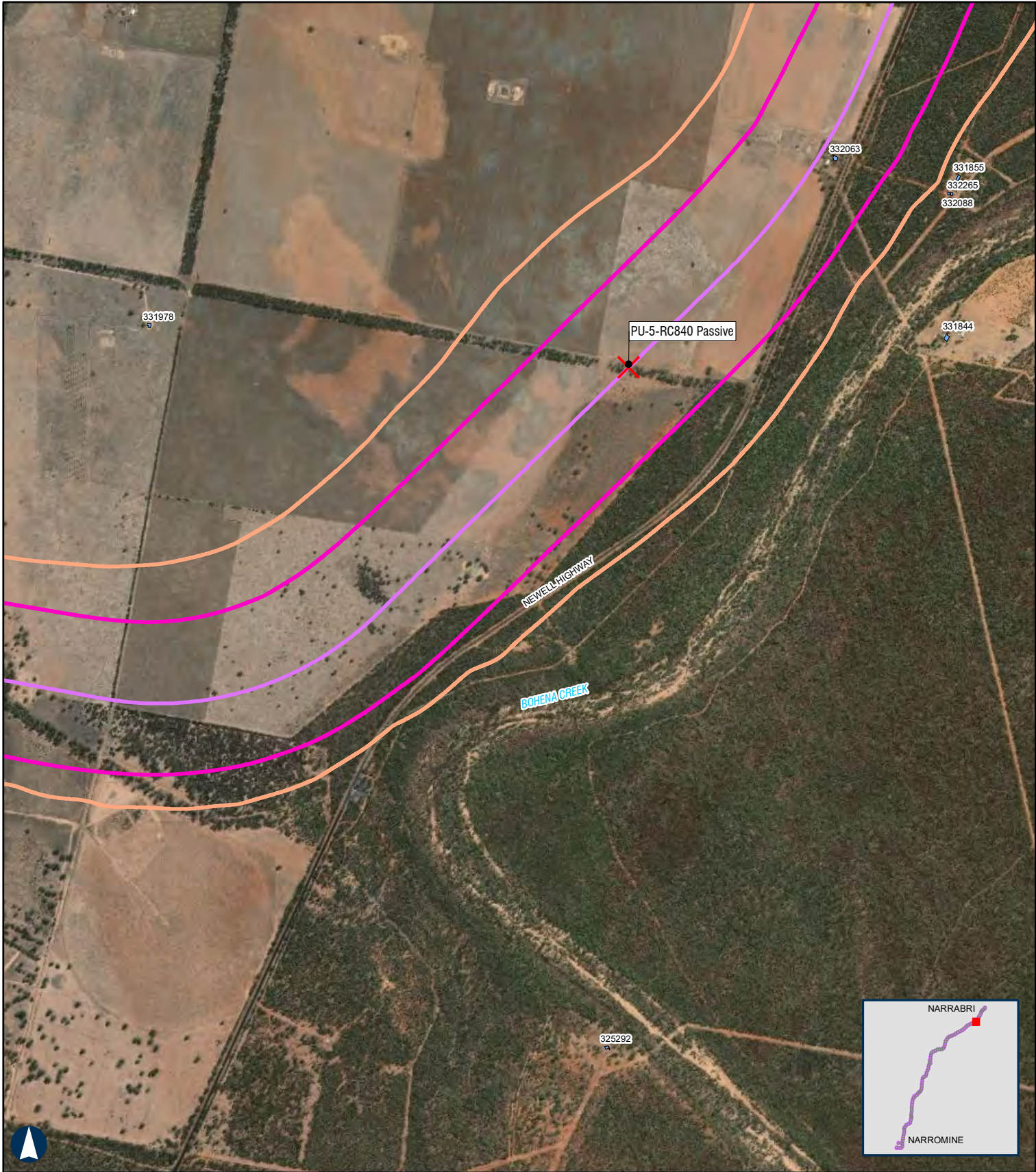
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**NARROMINE TO NARRABRI**

**Year 2025 Night-time Rail Noise Levels**

**APPENDIX D - Map 160 of 168**

500 m

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Scale: 1:20,000

- ✗ Level Crossings
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- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

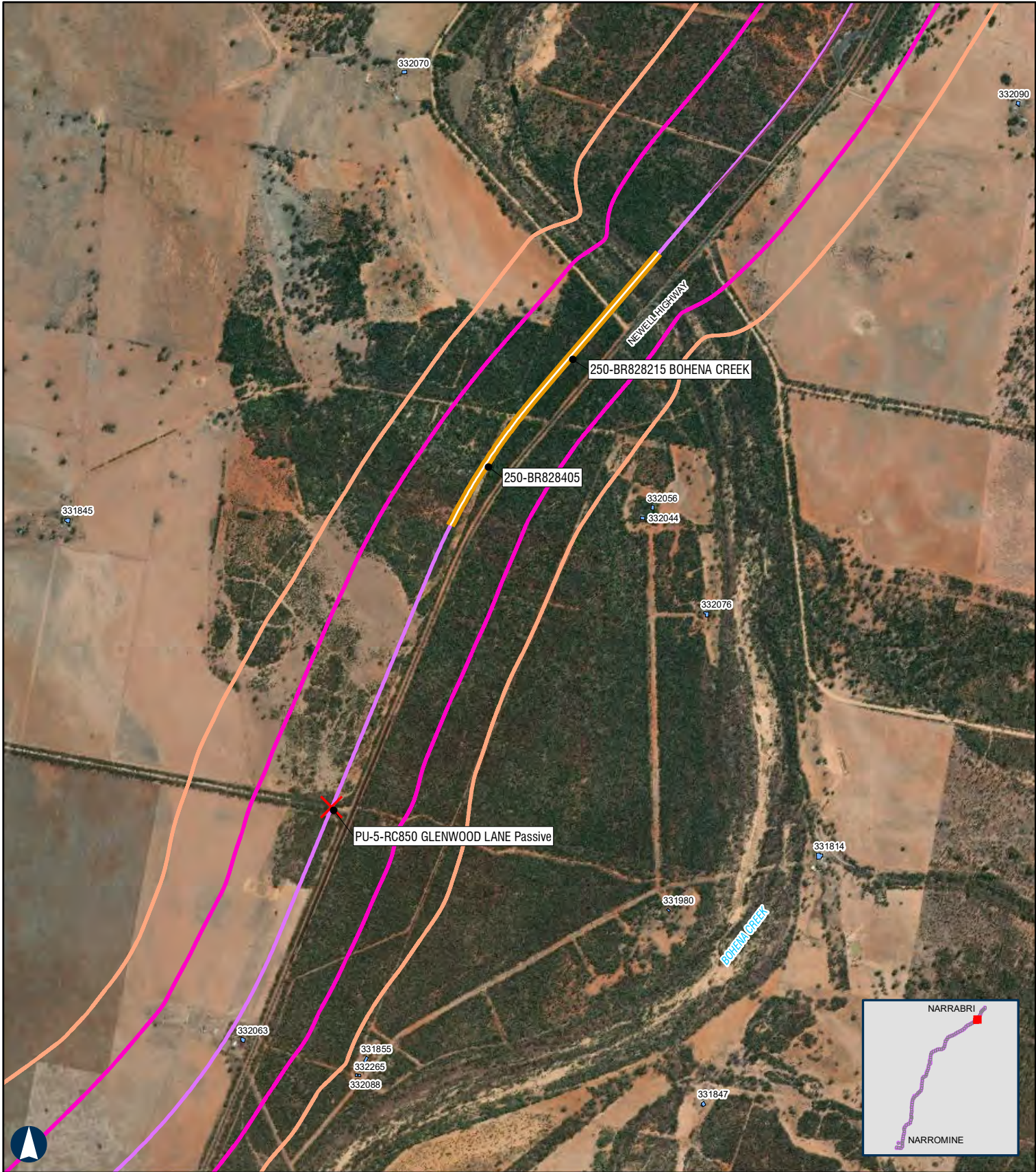
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## NARROMINE TO NARRABRI

## Year 2025 Night-time Rail Noise Levels

## APPENDIX D - Map 161 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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- ✗ Level Crossings
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- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

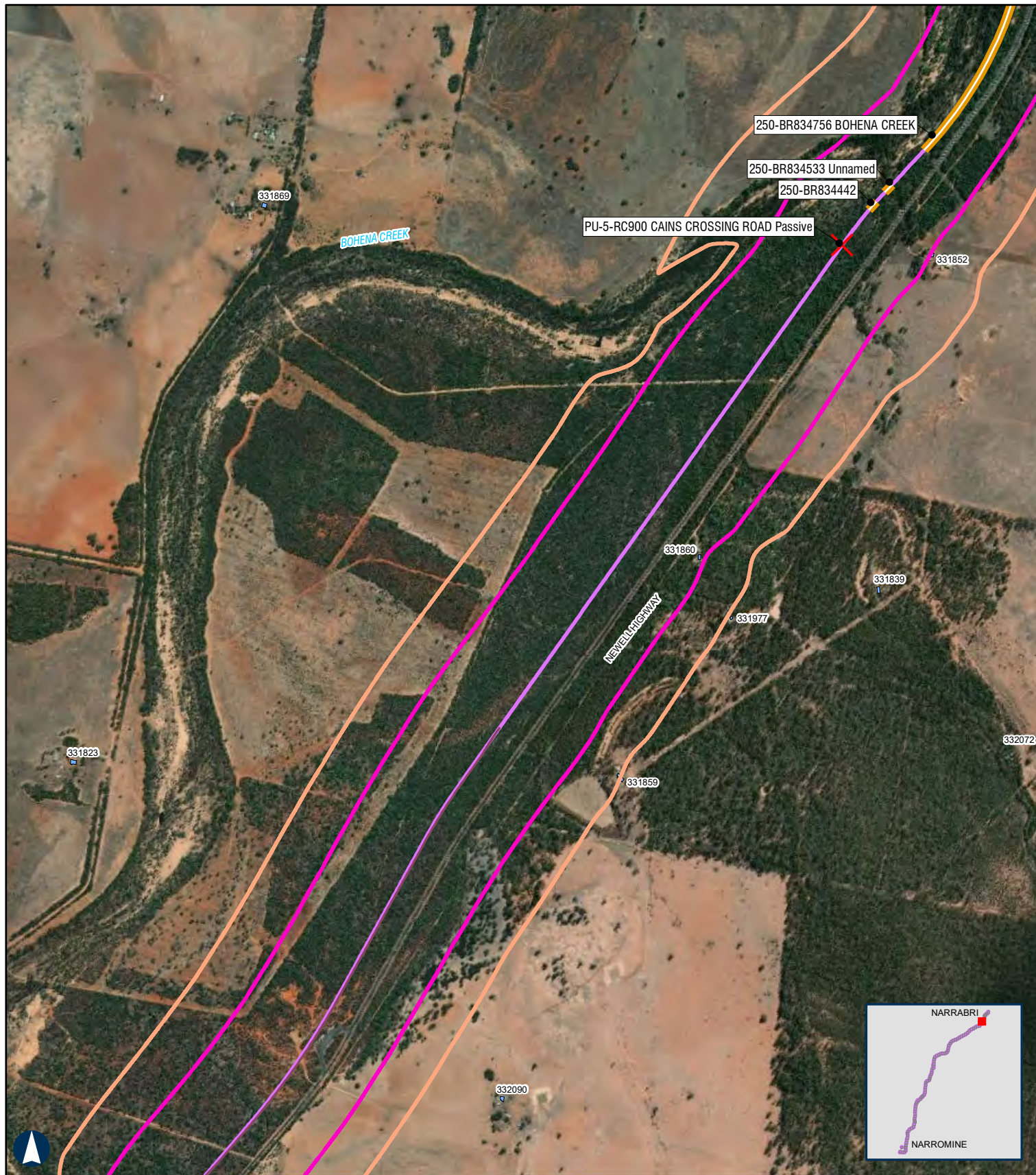
Noise contours are based on a set distance above the local terrain level of 2.4m.

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## NARROMINE TO NARRABRI

## Year 2025 Night-time Rail Noise Levels

## APPENDIX D - Map 162 of 168

500 m

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- ✕ Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

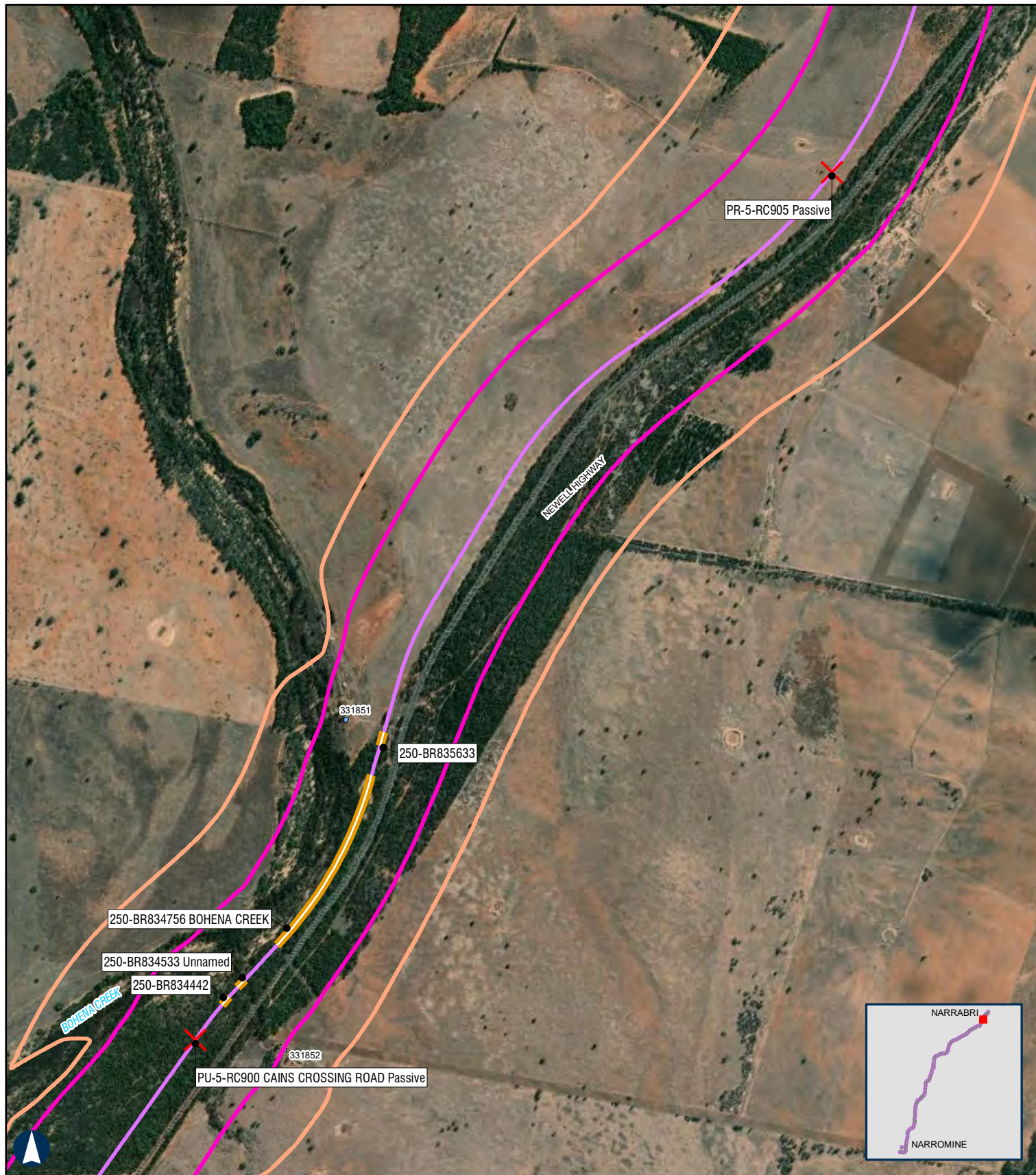
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## NARROMINE TO NARRABRI

## Year 2025 Night-time Rail Noise Levels

## APPENDIX D - Map 163 of 168

500 m

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- X Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

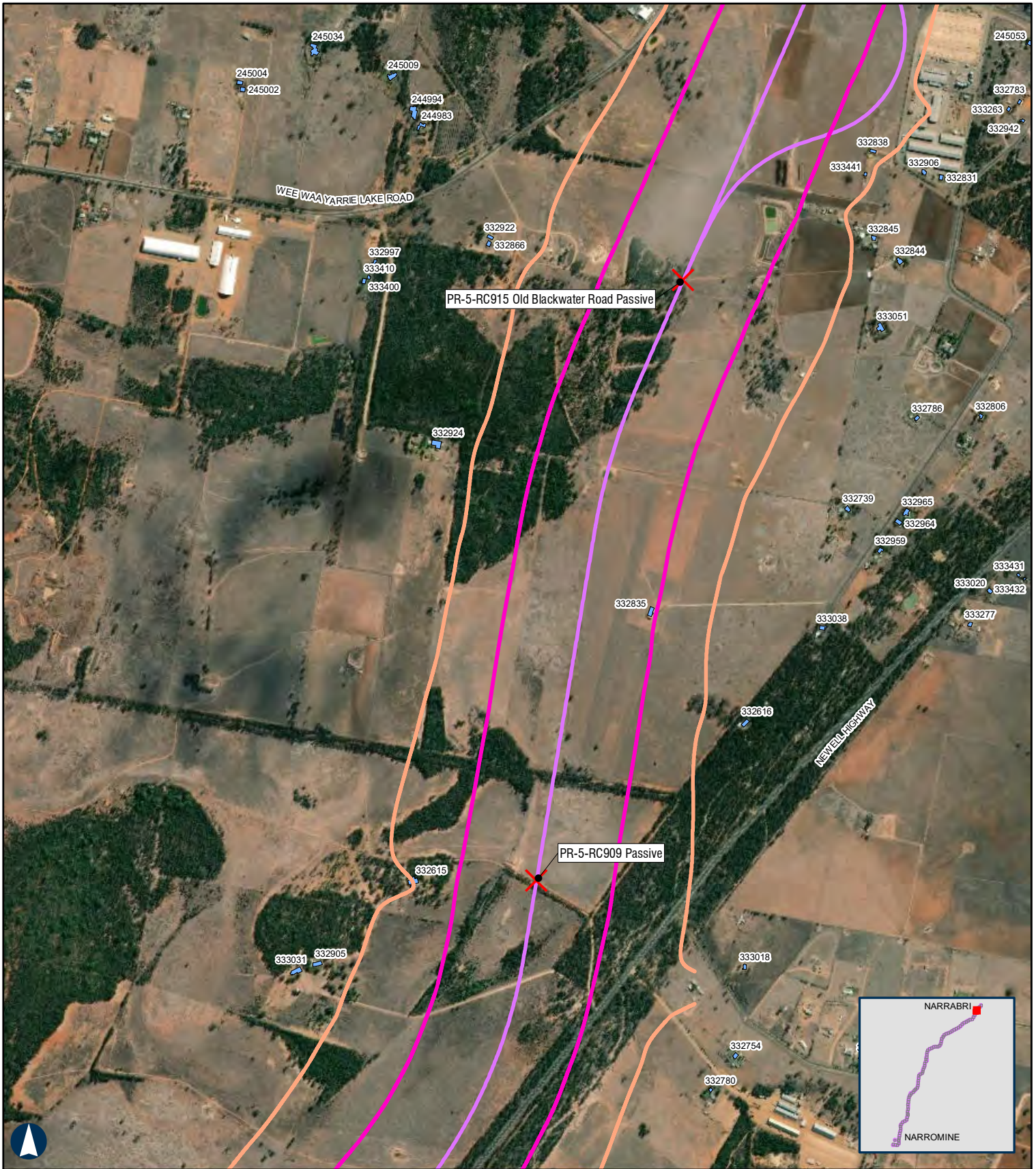
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## NARROMINE TO NARRABRI

## Year 2025 Night-time Rail Noise Levels

## APPENDIX D - Map 164 of 168

500 m

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- X Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

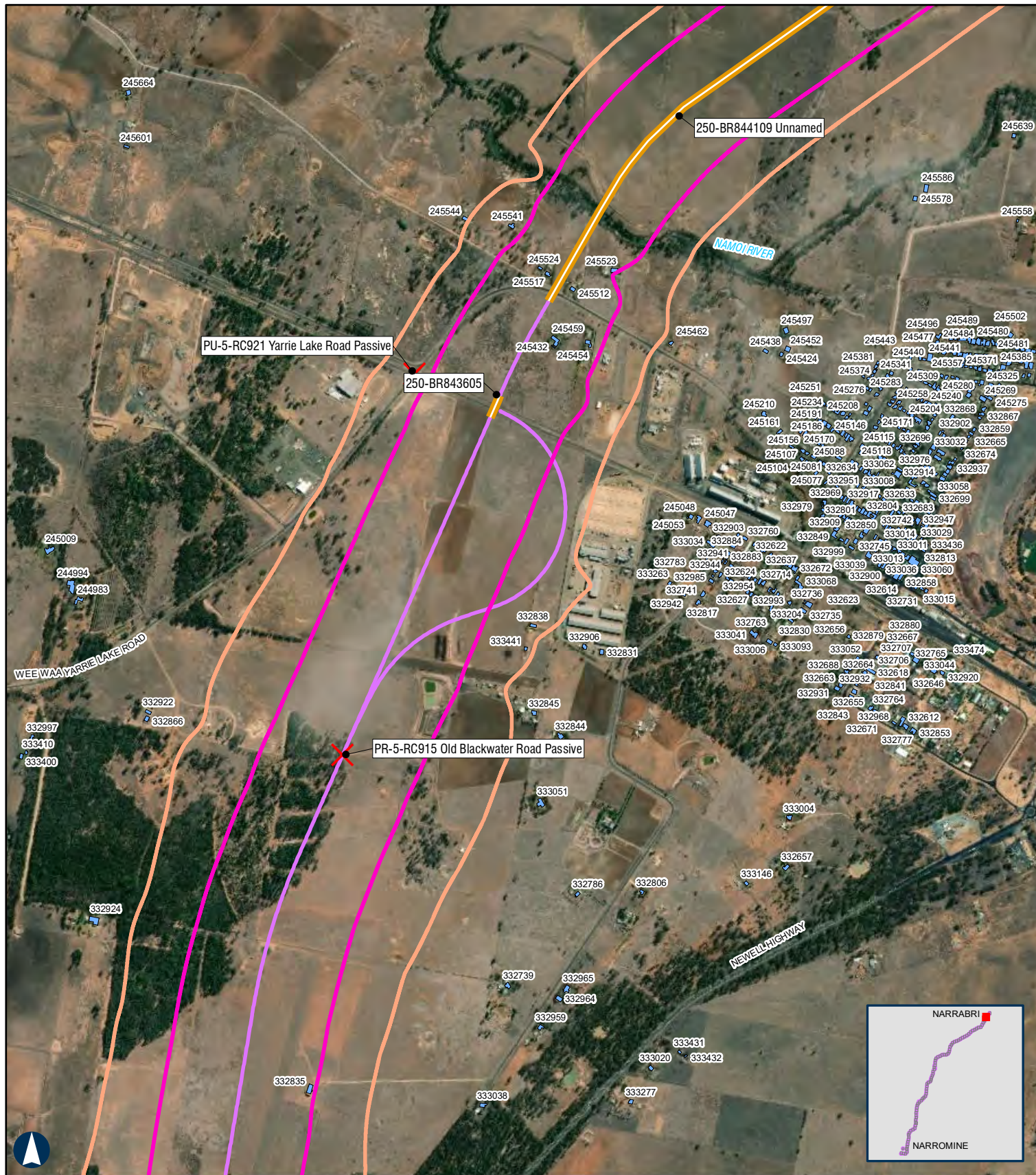
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## NARROMINE TO NARRABRI

## Year 2025 Night-time Rail Noise Levels

## APPENDIX D - Map 165 of 168

500 m

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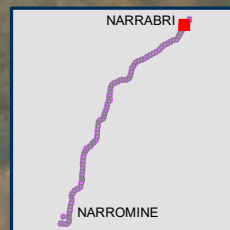
Paper: A4  
Date: 31-Jul-2020  
Author: JG

Scale: 1:20,000

- ✕ Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

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

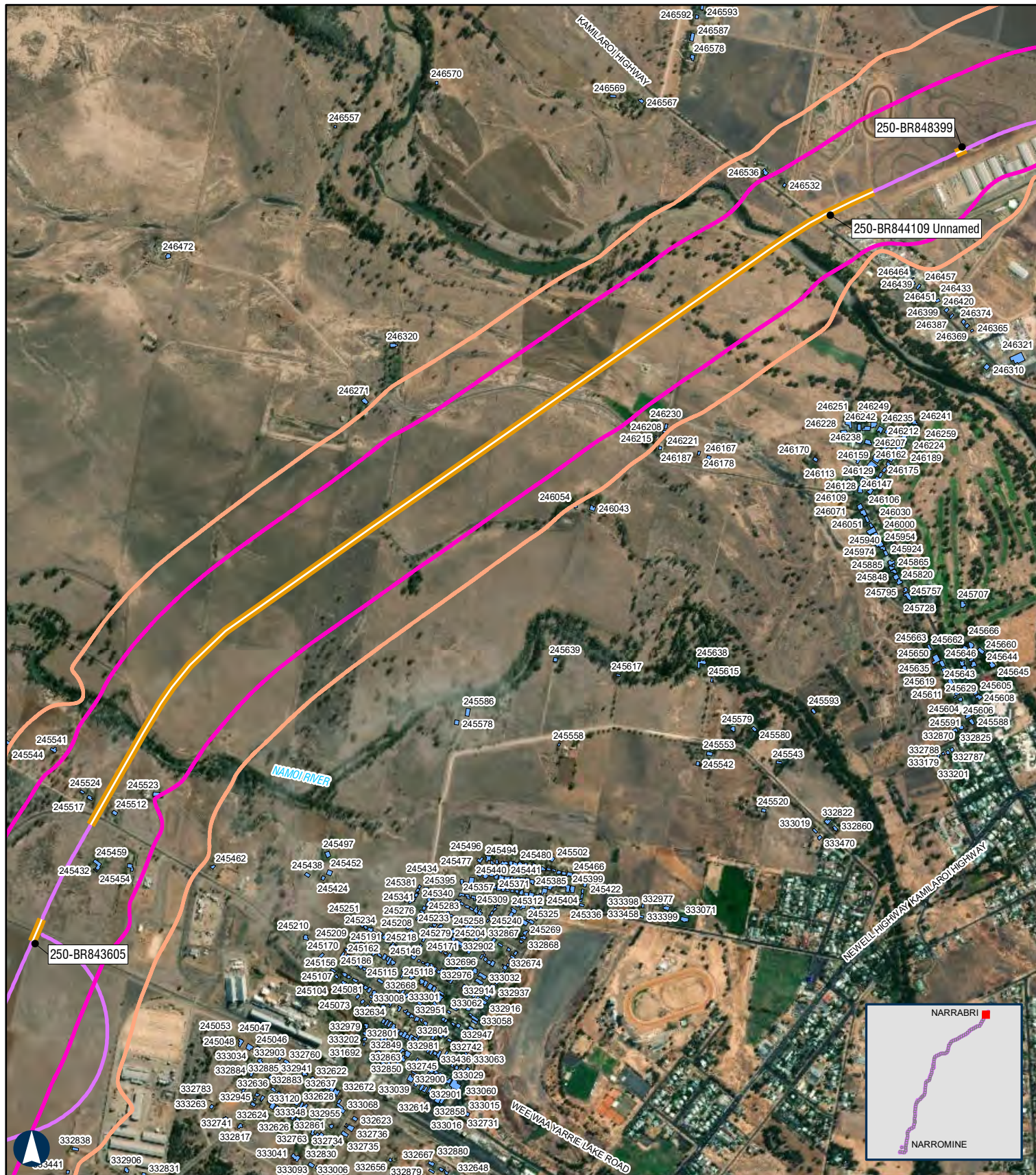
- Night-time noise criteria LAeq 9hr 55dBA new rail corridor
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## NARROMINE TO NARRABRI

## Year 2025 Night-time Rail Noise Levels

## APPENDIX D - Map 166 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Author: JG

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- ✕ Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

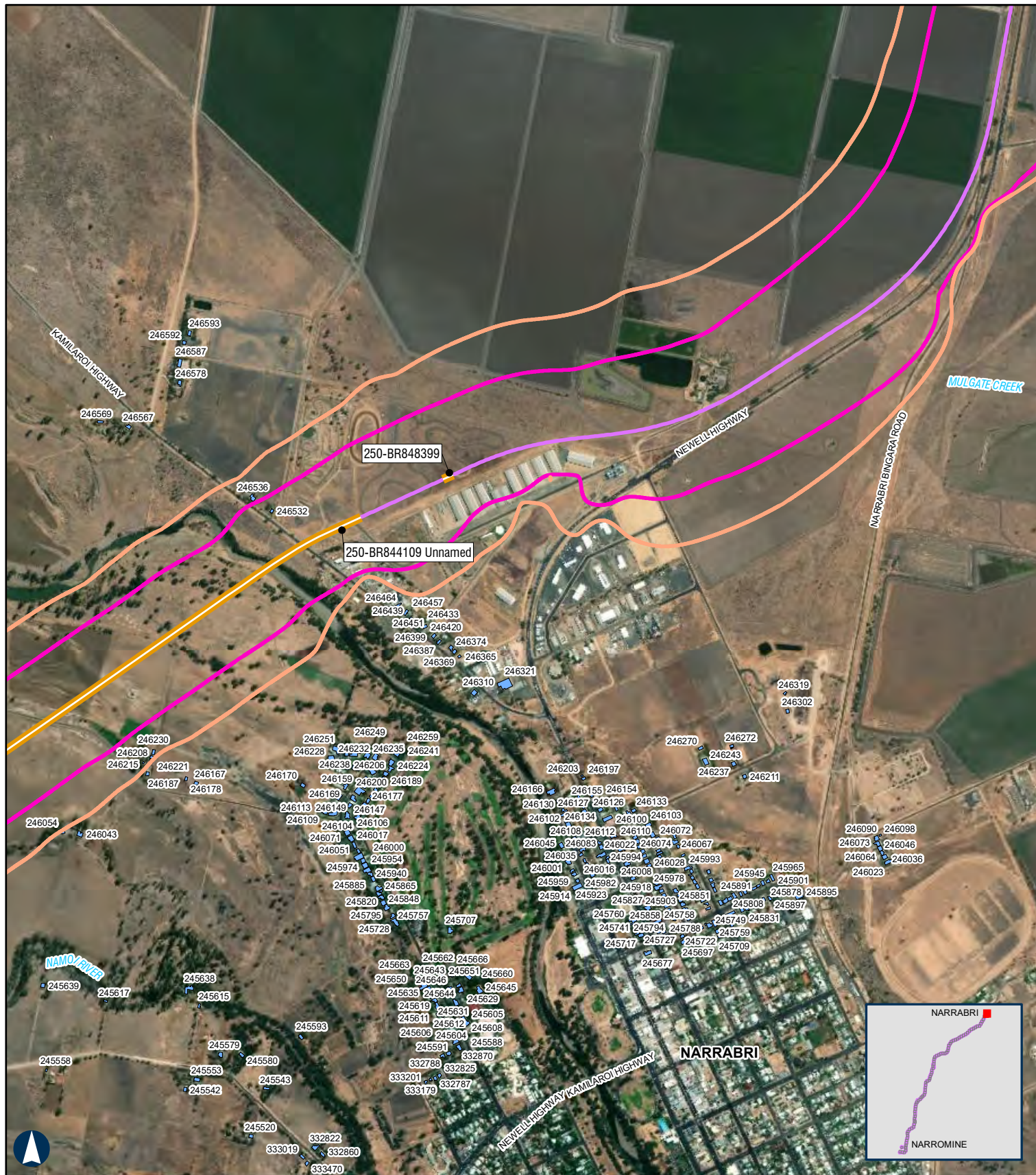
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## NARROMINE TO NARRABRI

## Year 2025 Night-time Rail Noise Levels

## APPENDIX D - Map 167 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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- ✕ Level Crossings
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- Crossing Loops
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- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

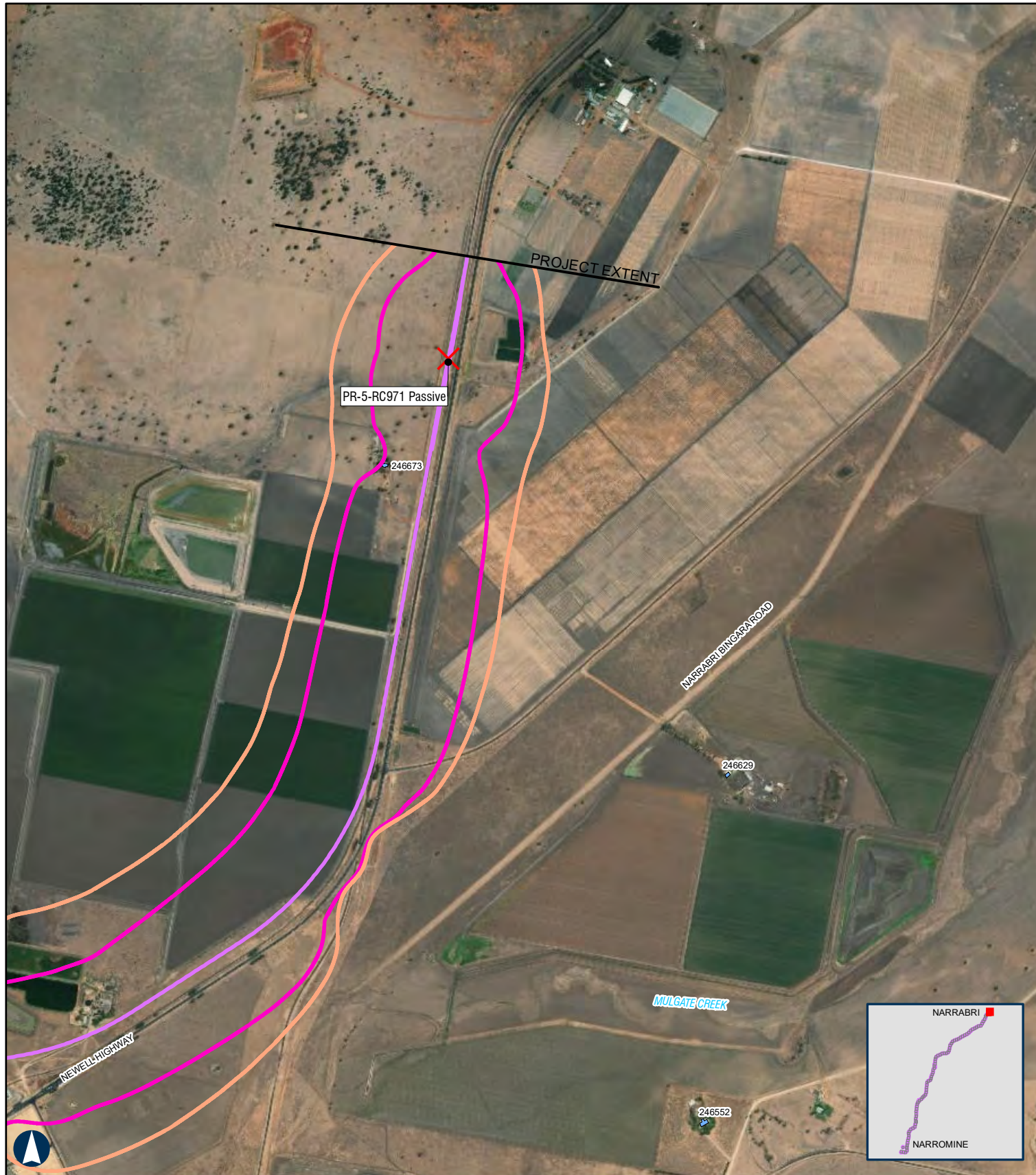
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## NARROMINE TO NARRABRI

## Year 2025 Night-time Rail Noise Levels

## APPENDIX D - Map 168 of 168

500 m

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- X Level Crossings
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