

TECHNICAL REPORT

INLAND
RAIL 

8

Noise and vibration assessment – construction and other operations

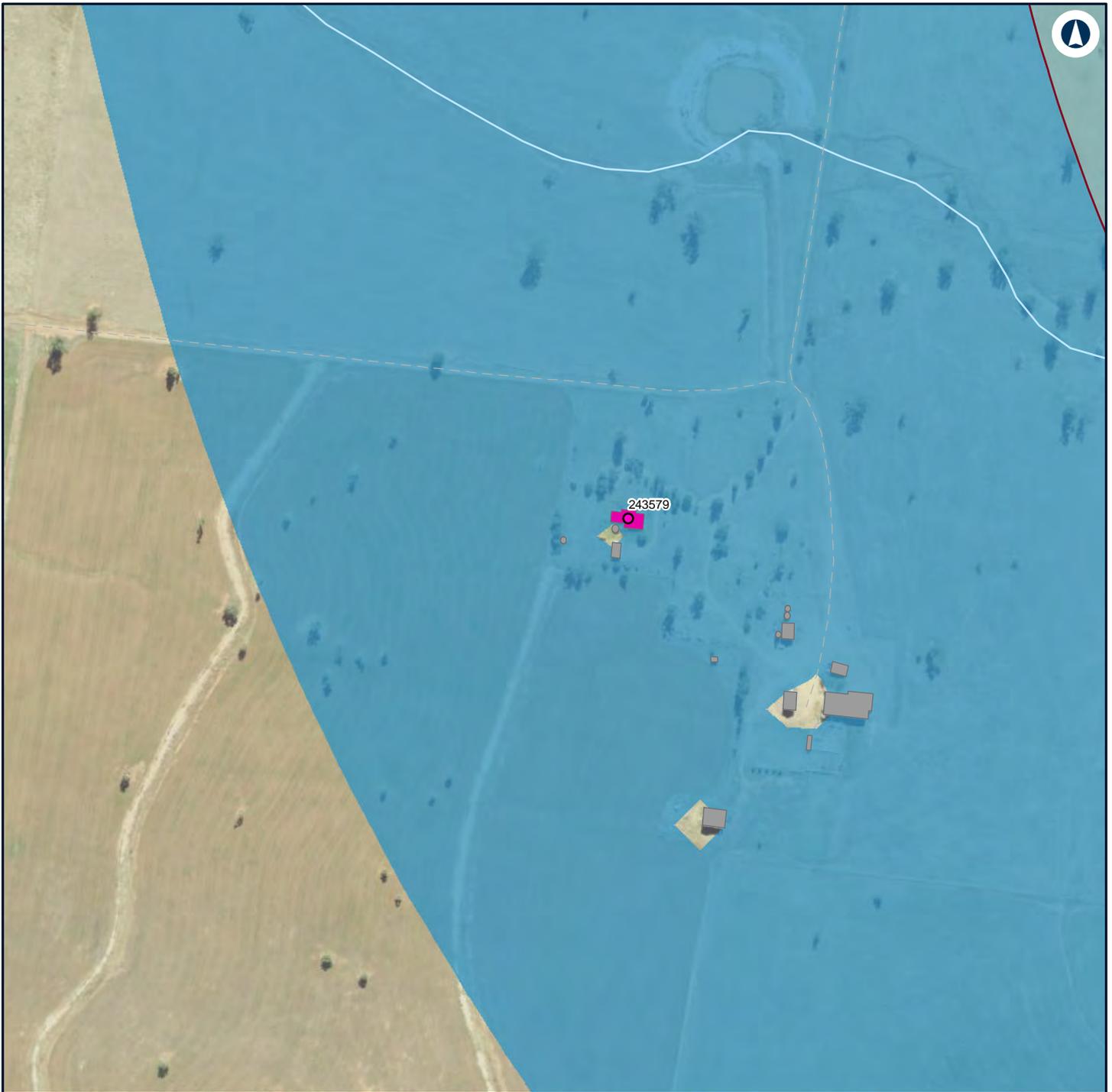
PART 4 OF 7

Appendix G continued...

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.



LEGEND

- Structure type**
- 35 - 40
 - Residential
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 101 of 304



Coordinate System: GDA 1994 MGA Zone 55

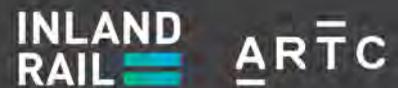
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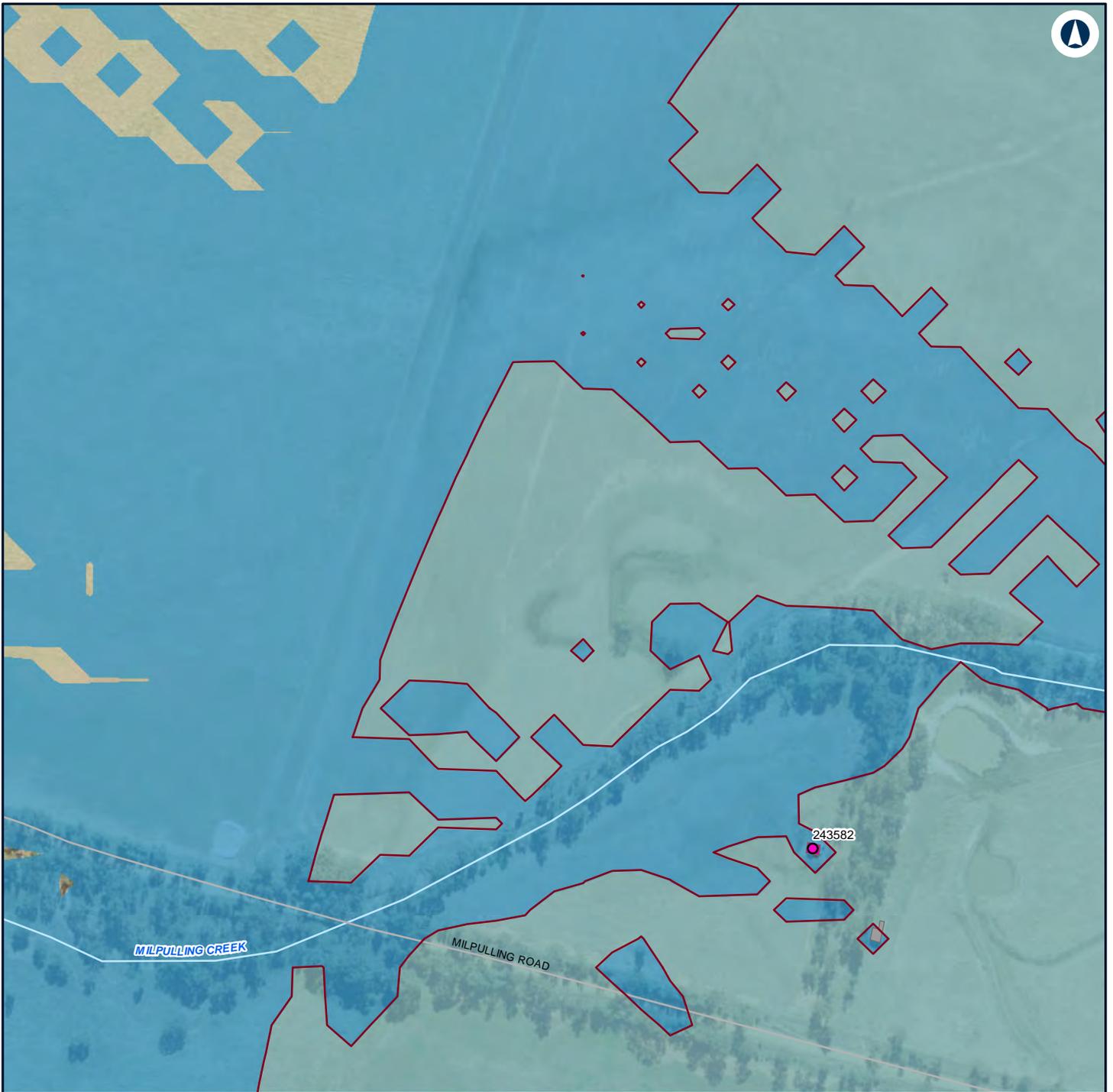
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Author: GHD

Paper: A4
Scale: 1:5,000

Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD



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LEGEND

- Structure type**
- 35 - 40
 - Residential
 - Other
 - Residential
- Noise level (dBA L**
Aeq 15 minute)
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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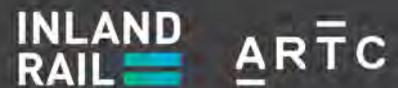
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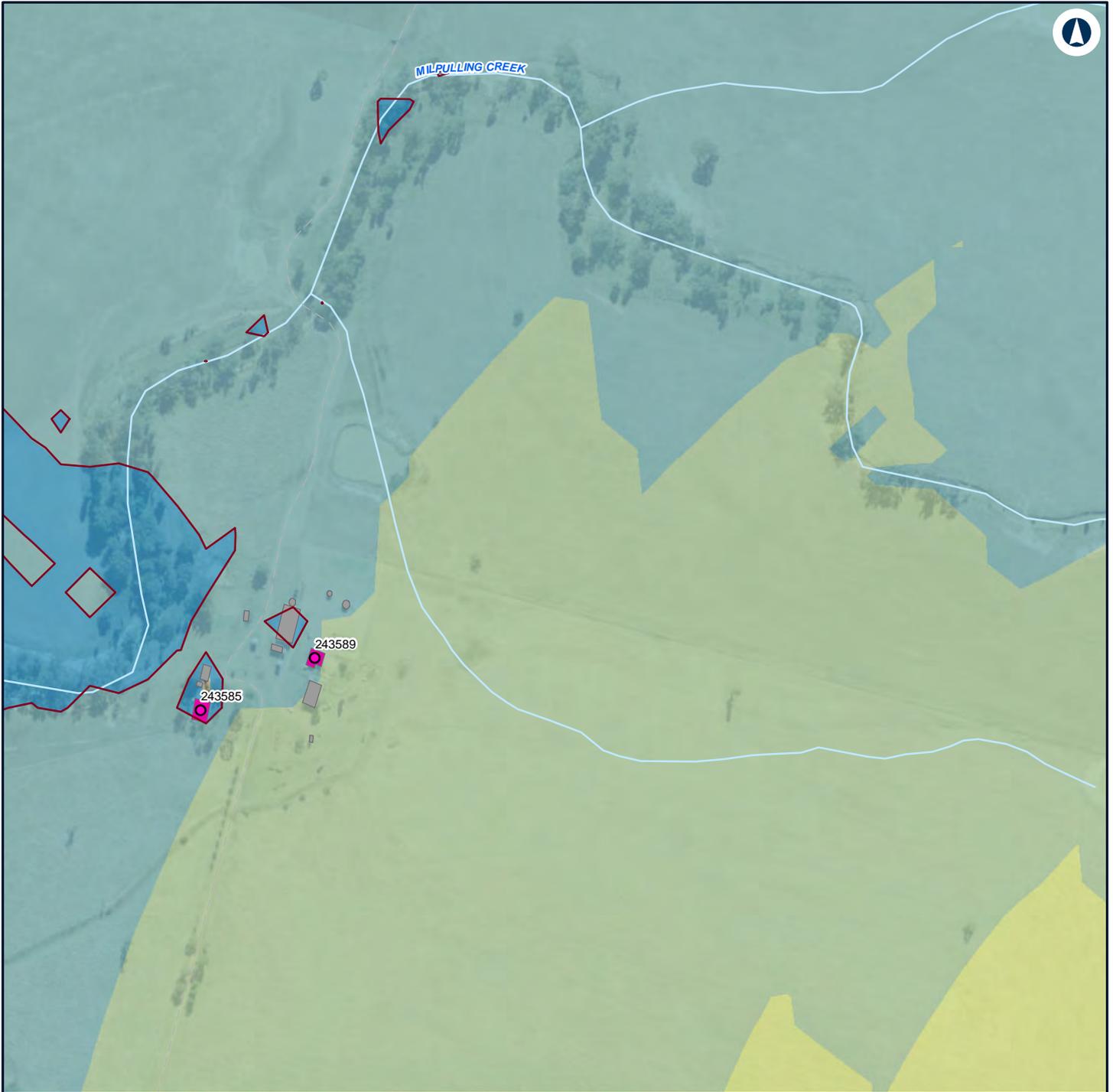
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LEGEND

- Structure type**
- 35 - 40
 - 40 - 45
 - Other
 - 45 - 50
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



Coordinate System: GDA 1994 MGA Zone 55

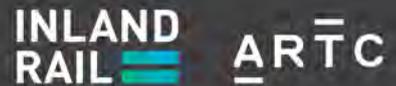
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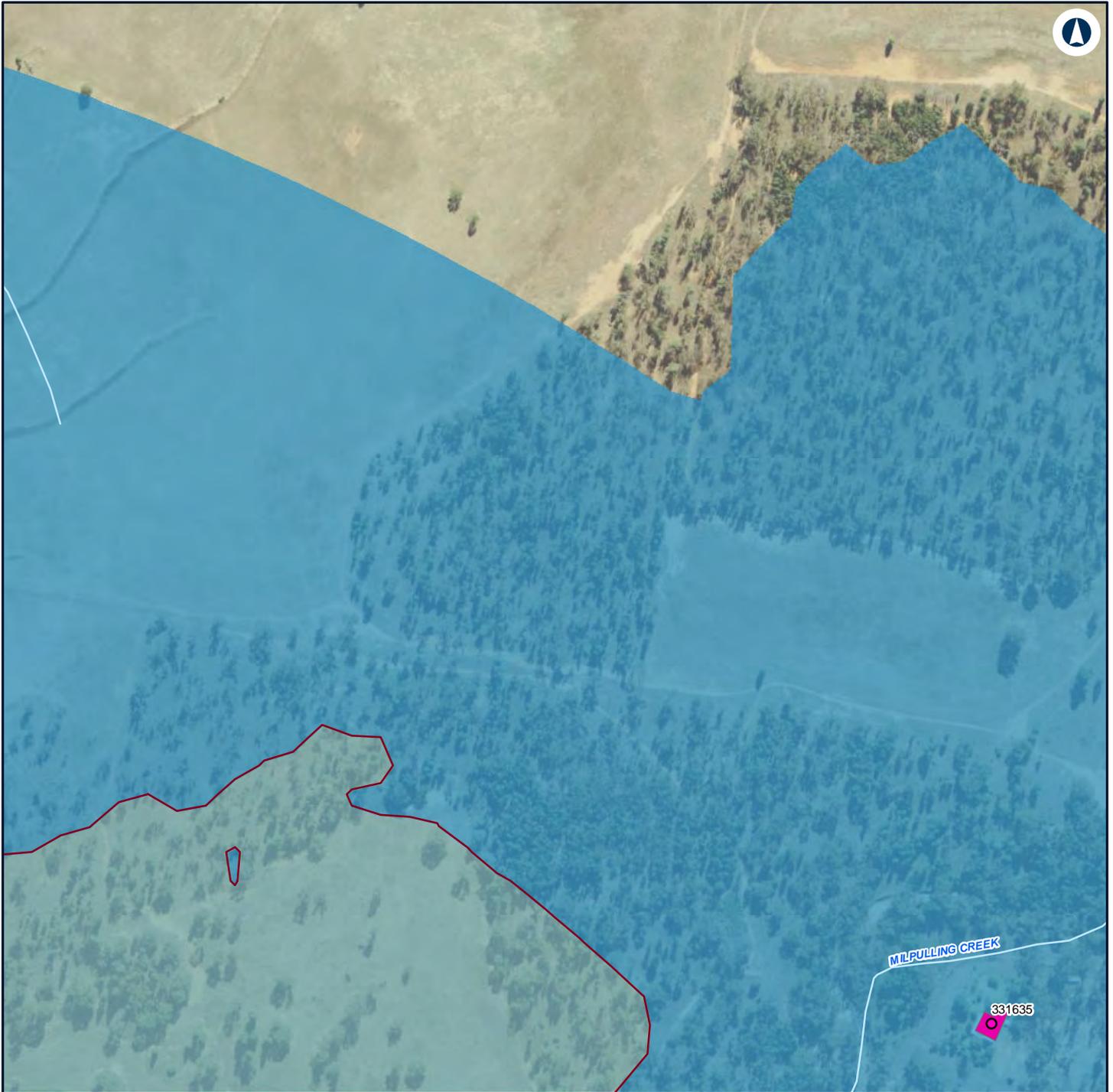
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LEGEND

Structure type

- Residential
- Residential

Noise level (dBA L

Aeq 15 minute)

- 30 - 35
- 35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



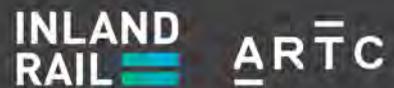
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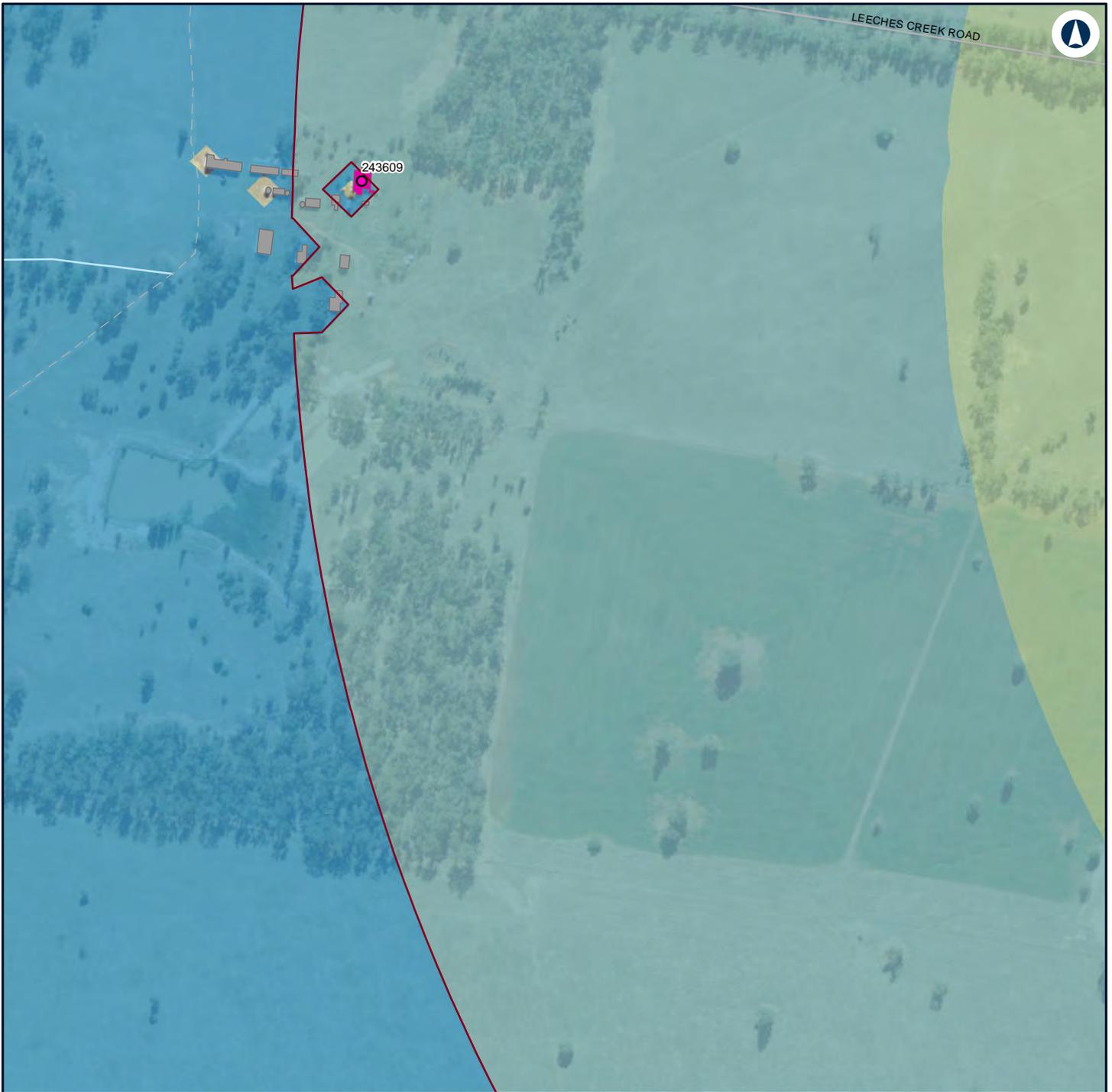
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LEGEND

- Structure type**
- 35 - 40
 - 40 - 45
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Aeq 15 minute)**
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0 0.1 0.2 Km

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INLAND RAIL **ARTC**

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LEGEND

Structure type

- Residential
- Other
- Residential

Noise level (dBA L

- Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



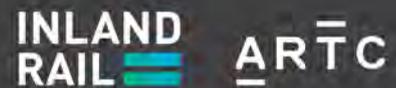
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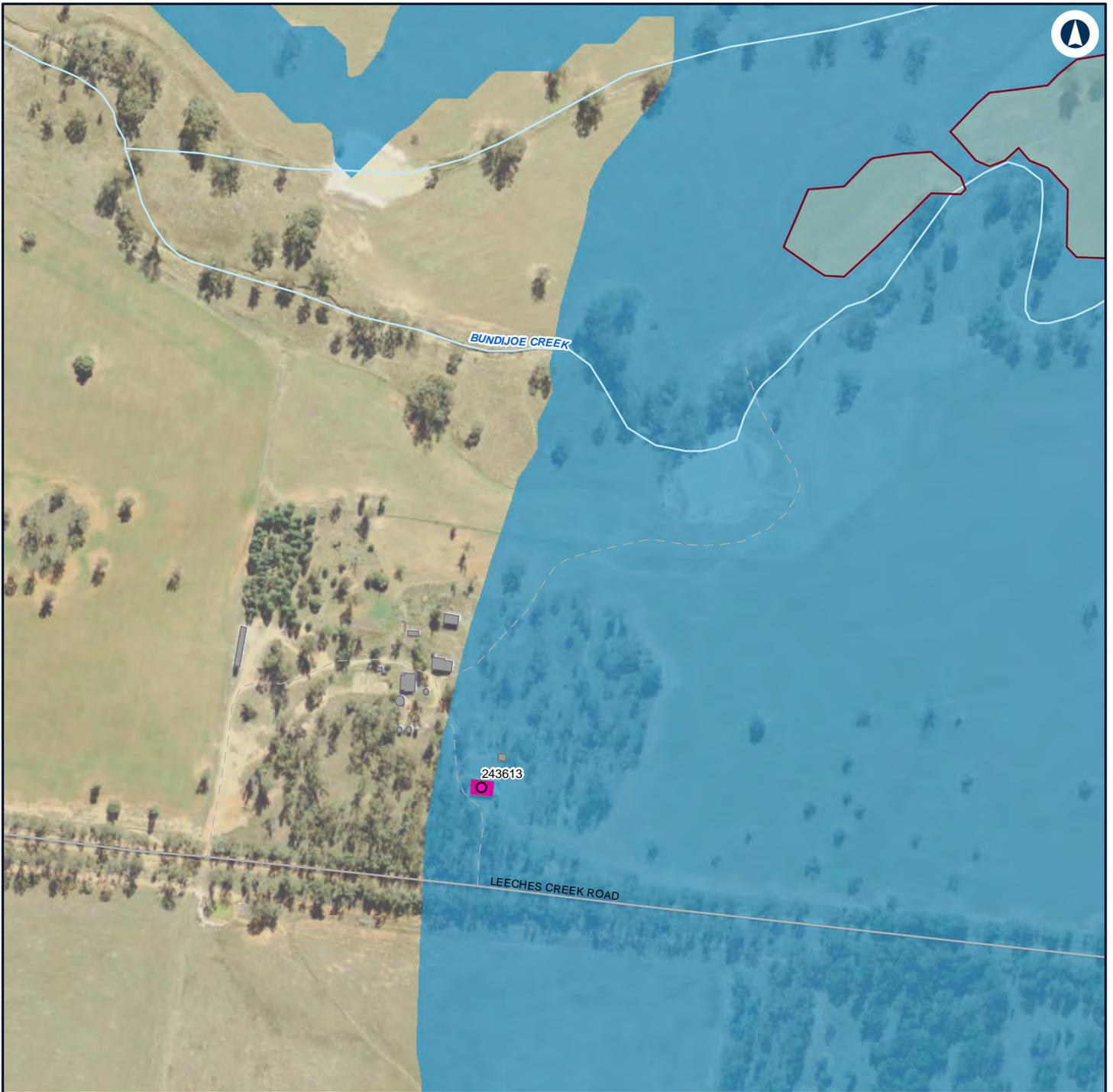
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NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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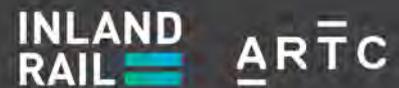
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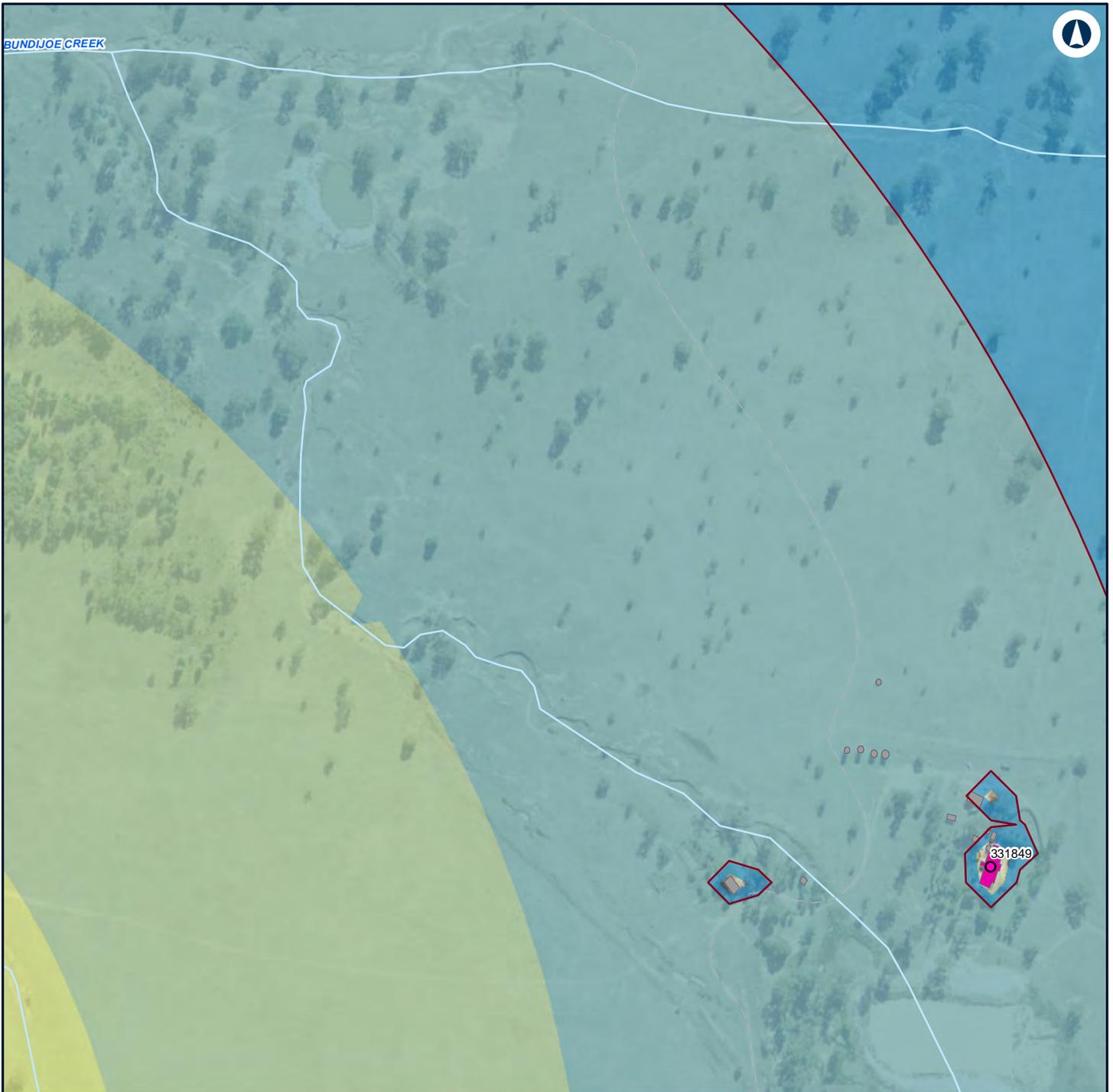
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LEGEND

- Structure type**
- 35 - 40
 - 40 - 45
 - Other
 - 45 - 50
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



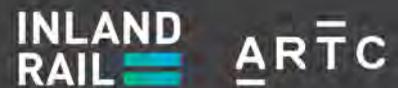
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- 35 - 40
 - Residential
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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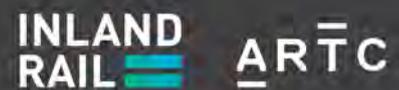
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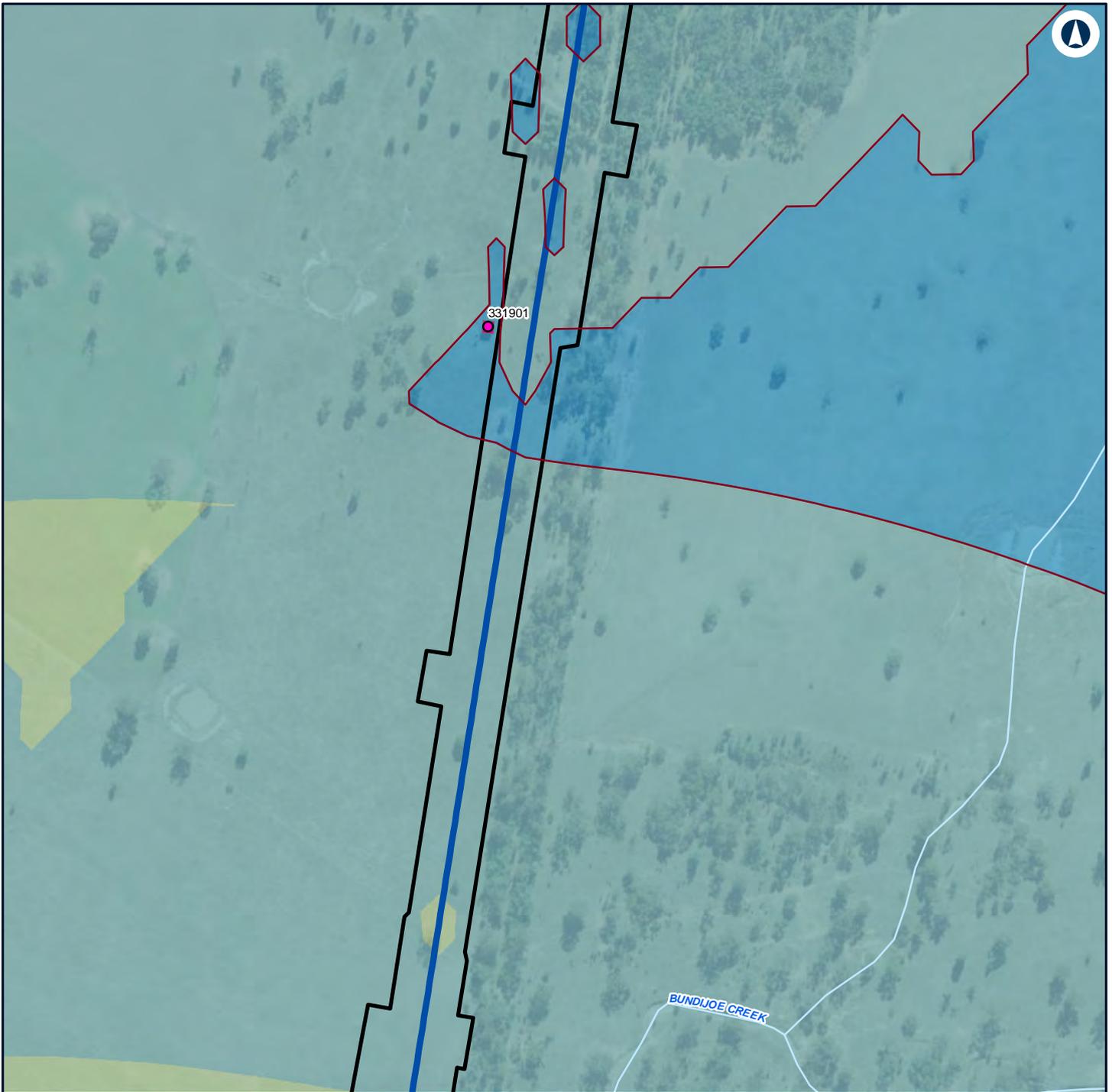
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LEGEND

- Alignment
 - Construction footprint
 - Structure type**
 - Residential
 - Residential
- | | |
|--|-----------------------|
| Noise level (dBA L | Aeq 15 minute) |
| | 30 - 35 |
| | 35 - 40 |
| | 40 - 45 |



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

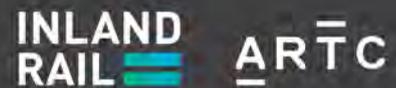


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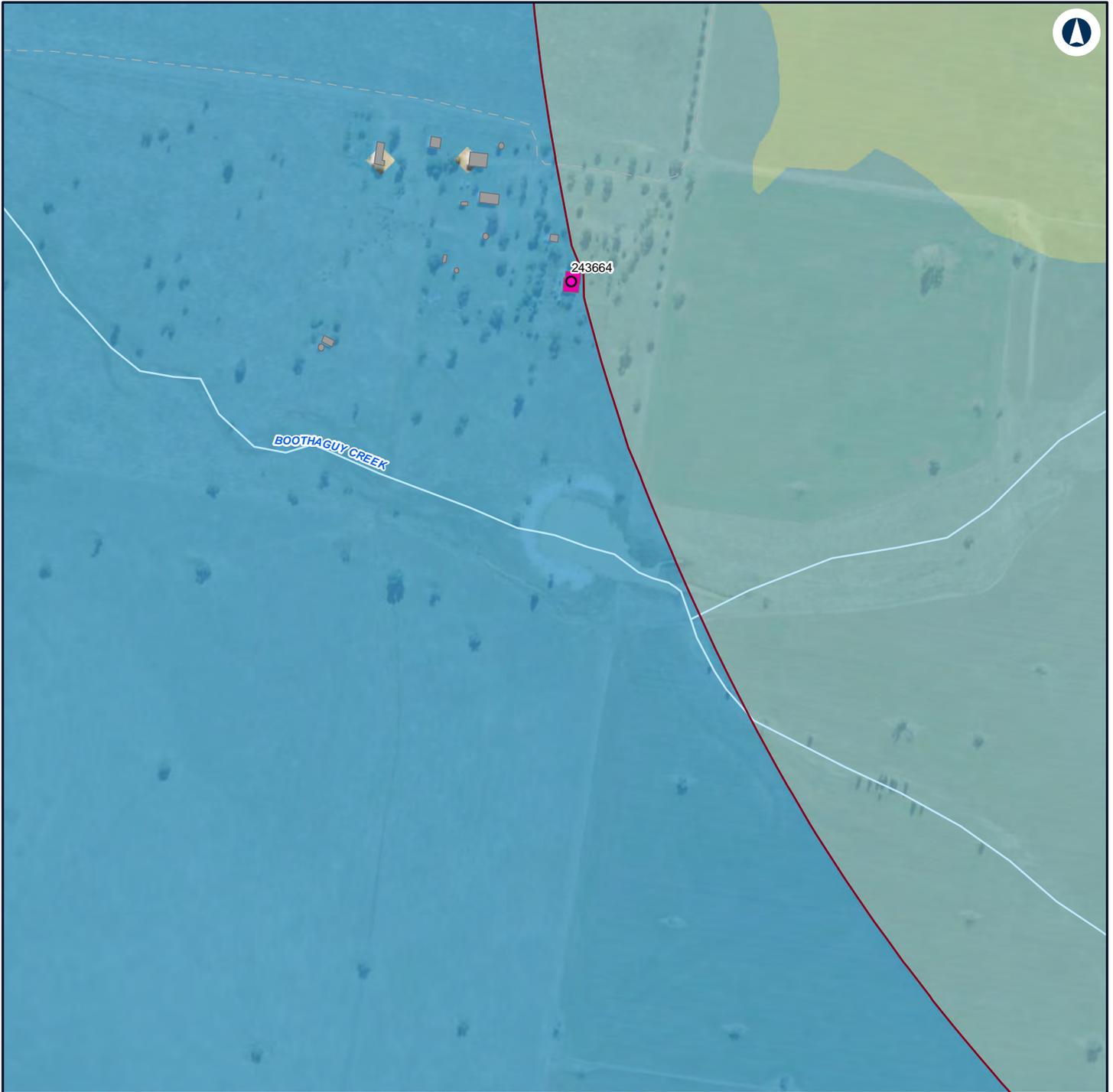
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LEGEND

- Structure type**
- 35 - 40
 - 40 - 45
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



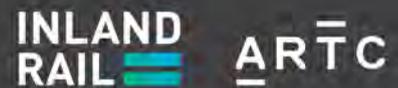
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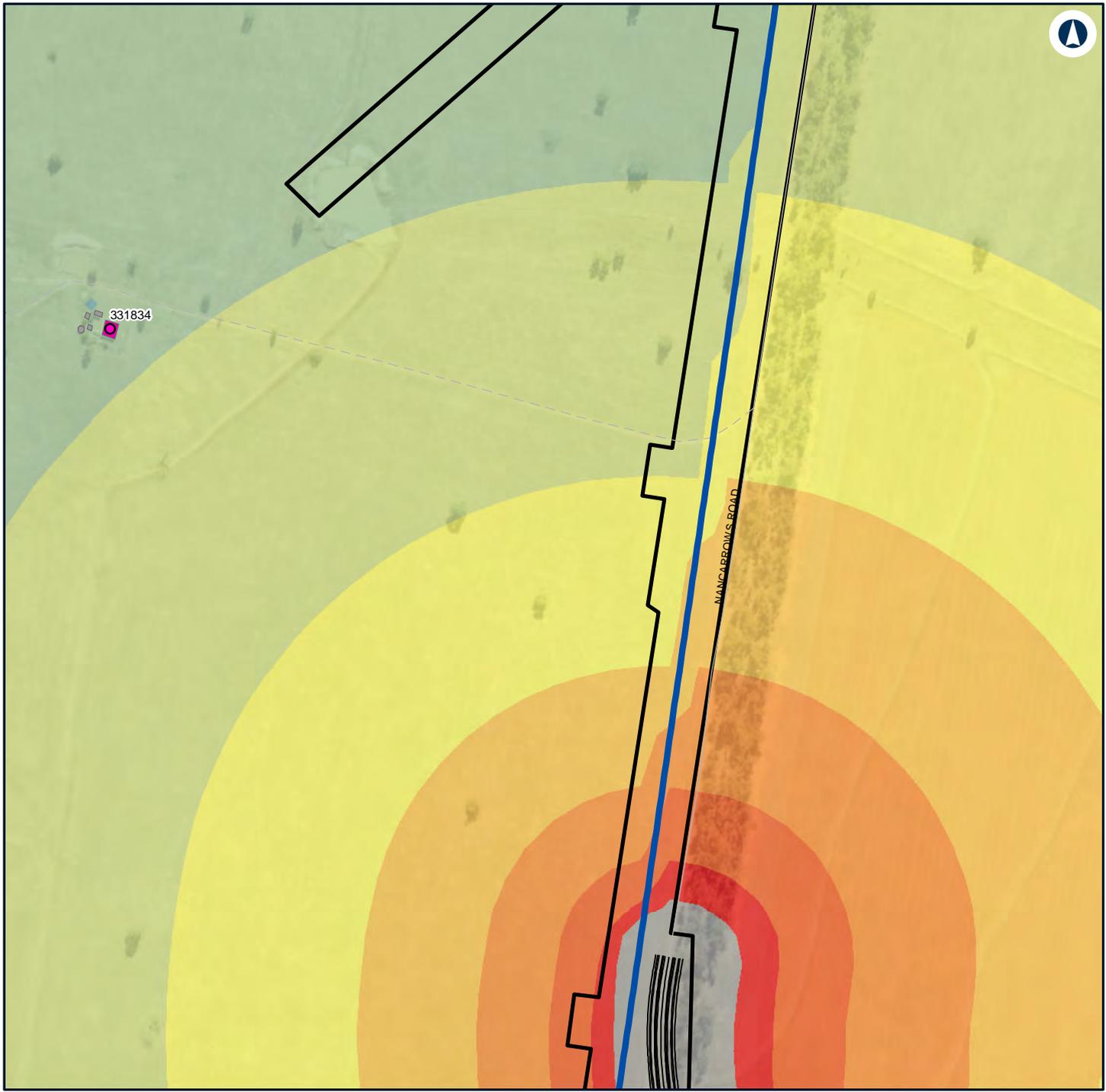
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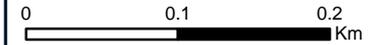


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LEGEND

Alignment	Residential	55 - 60
Road design string	Noise level (dBA L	60 - 65
Construction footprint	Aeq 15 minute)	65 - 70
Structure type	35 - 40	70 - 75
Residential	40 - 45	> 75
Other	45 - 50	
	50 - 55	

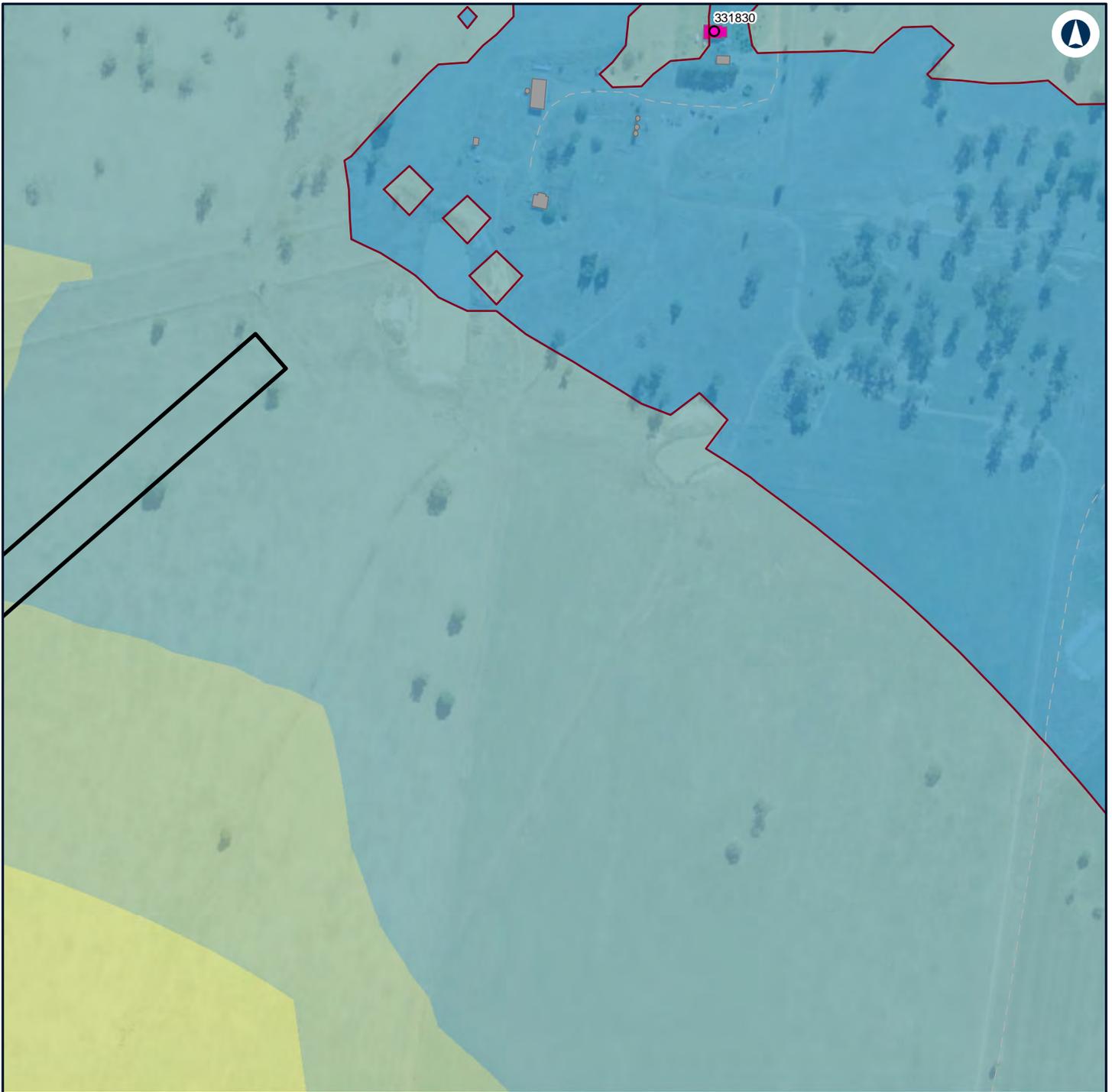


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LEGEND

Construction footprint

Structure type

- Residential
- Other
- Residential

**Noise level (dBA L
Aeq 15 minute)**

- 30 - 35
- 35 - 40
- 40 - 45
- 45 - 50



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



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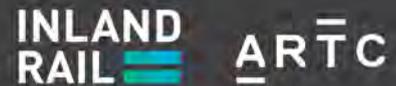
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- 35 - 40
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- Noise level (dBA L
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NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



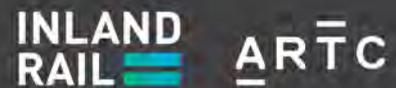
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Structure type

-  Residential
-  Other
-  Residential

Noise level (dBA L

- Aeq 15 minute)**
-  30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



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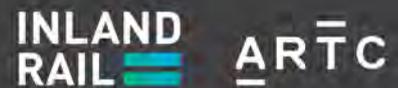
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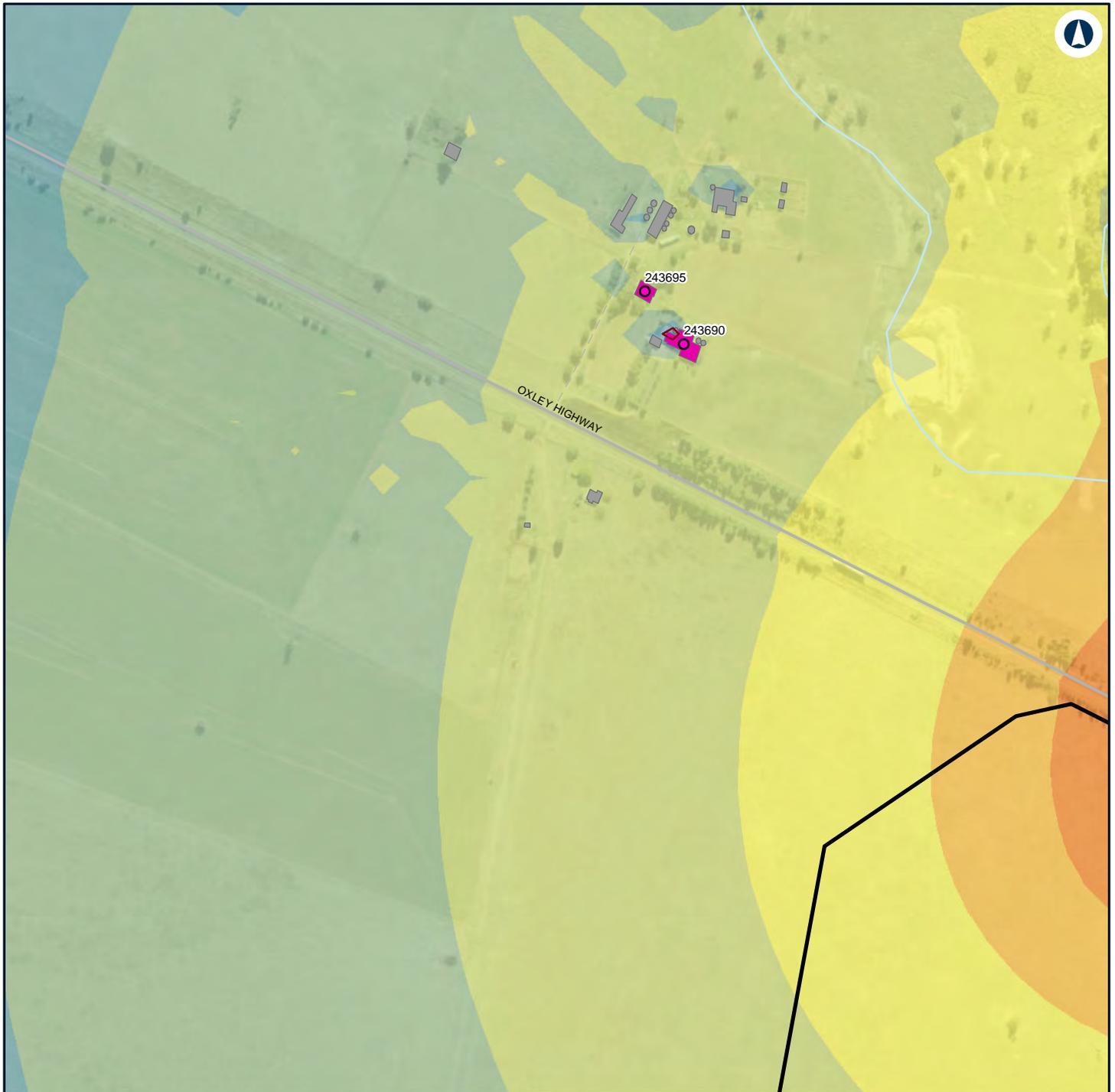
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LEGEND

Construction footprint

Structure type

- Residential
- Other
- Residential

Noise level (dBA L Aeq 15 minute)

- 30 - 35
- 35 - 40
- 40 - 45
- 45 - 50
- 50 - 55

- 55 - 60
- 60 - 65



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



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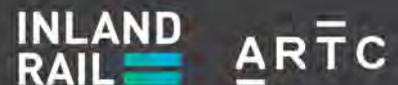
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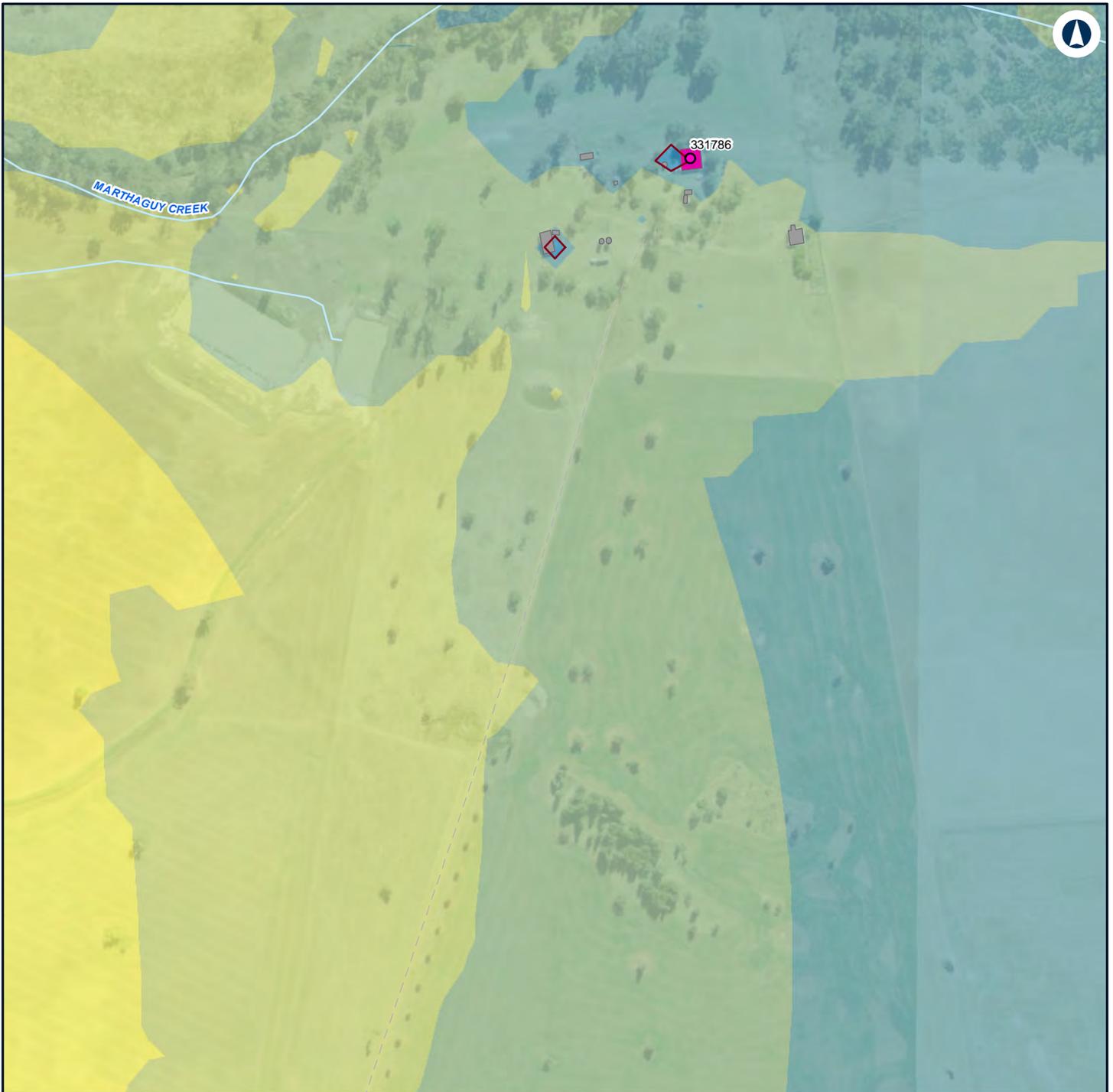
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LEGEND

Structure type		35 - 40
● Residential	■	40 - 45
■ Other	■	45 - 50
■ Residential	■	50 - 55

Noise level (dBA L

Aeq 15 minute)
 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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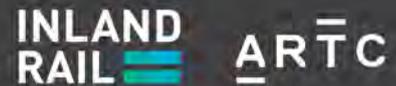
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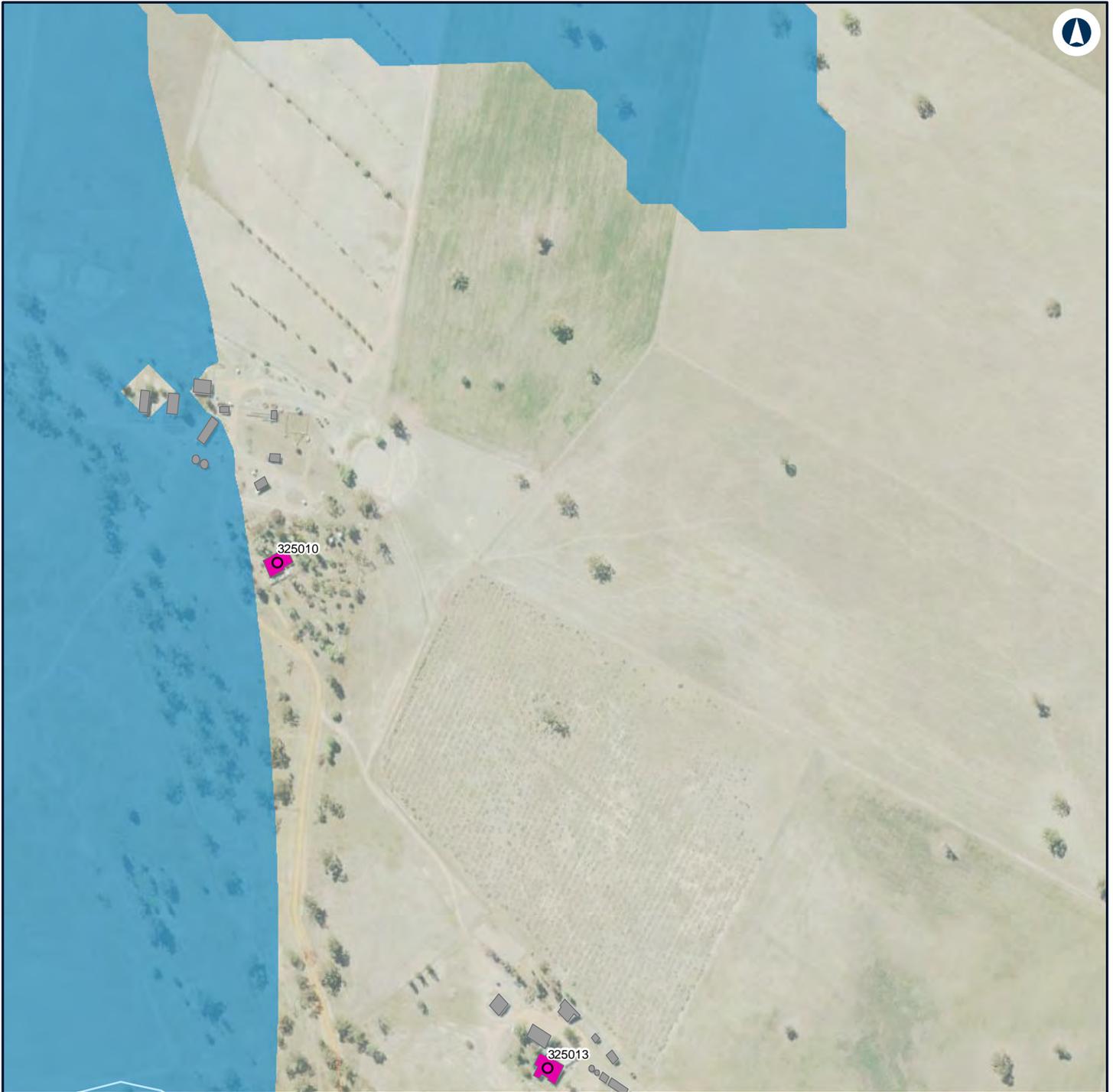
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Aeq 15 minute)
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NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



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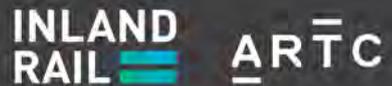
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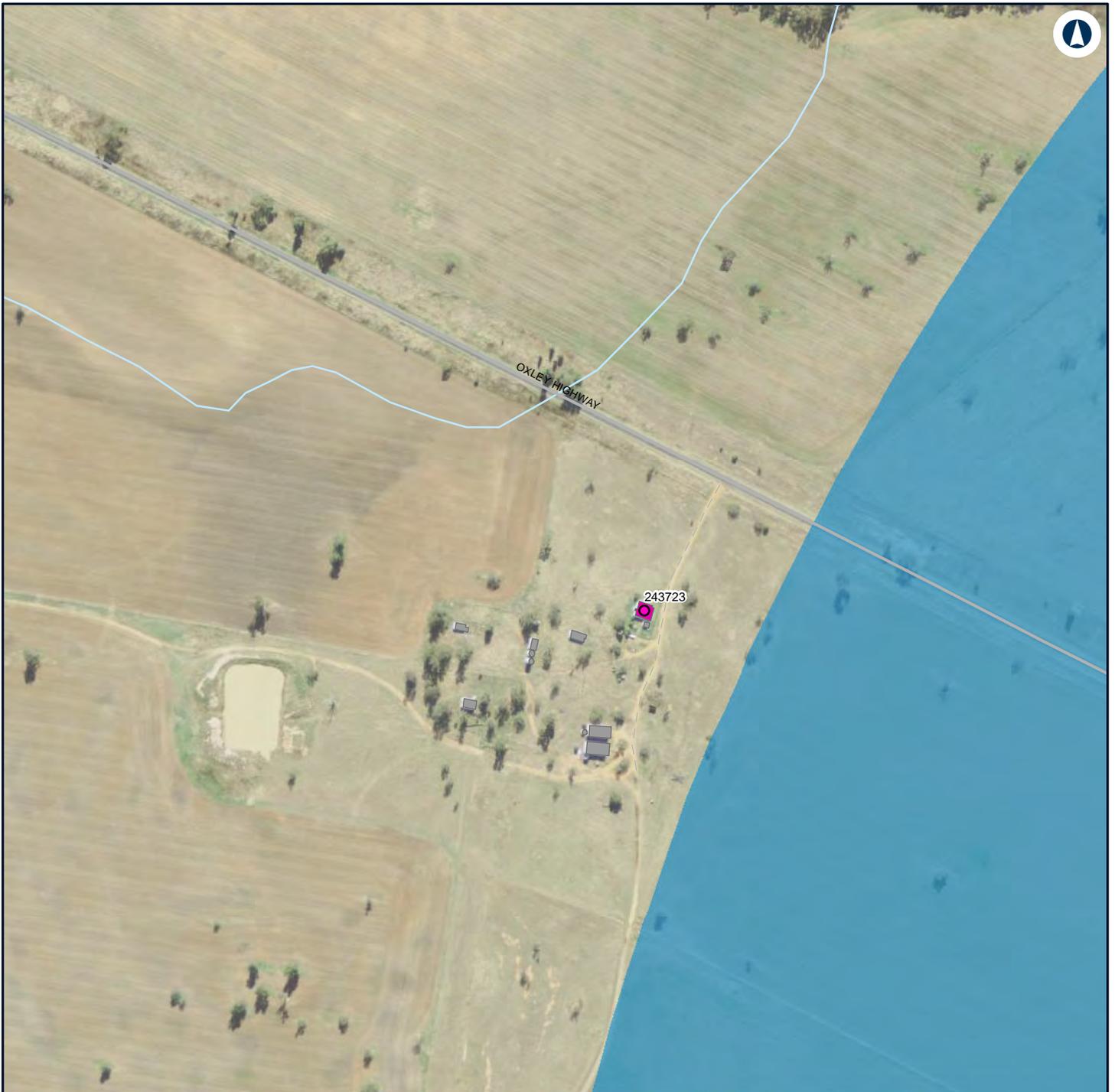
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Noise level (dBA L

Aeq 15 minute)

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NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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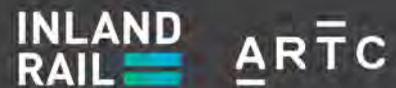
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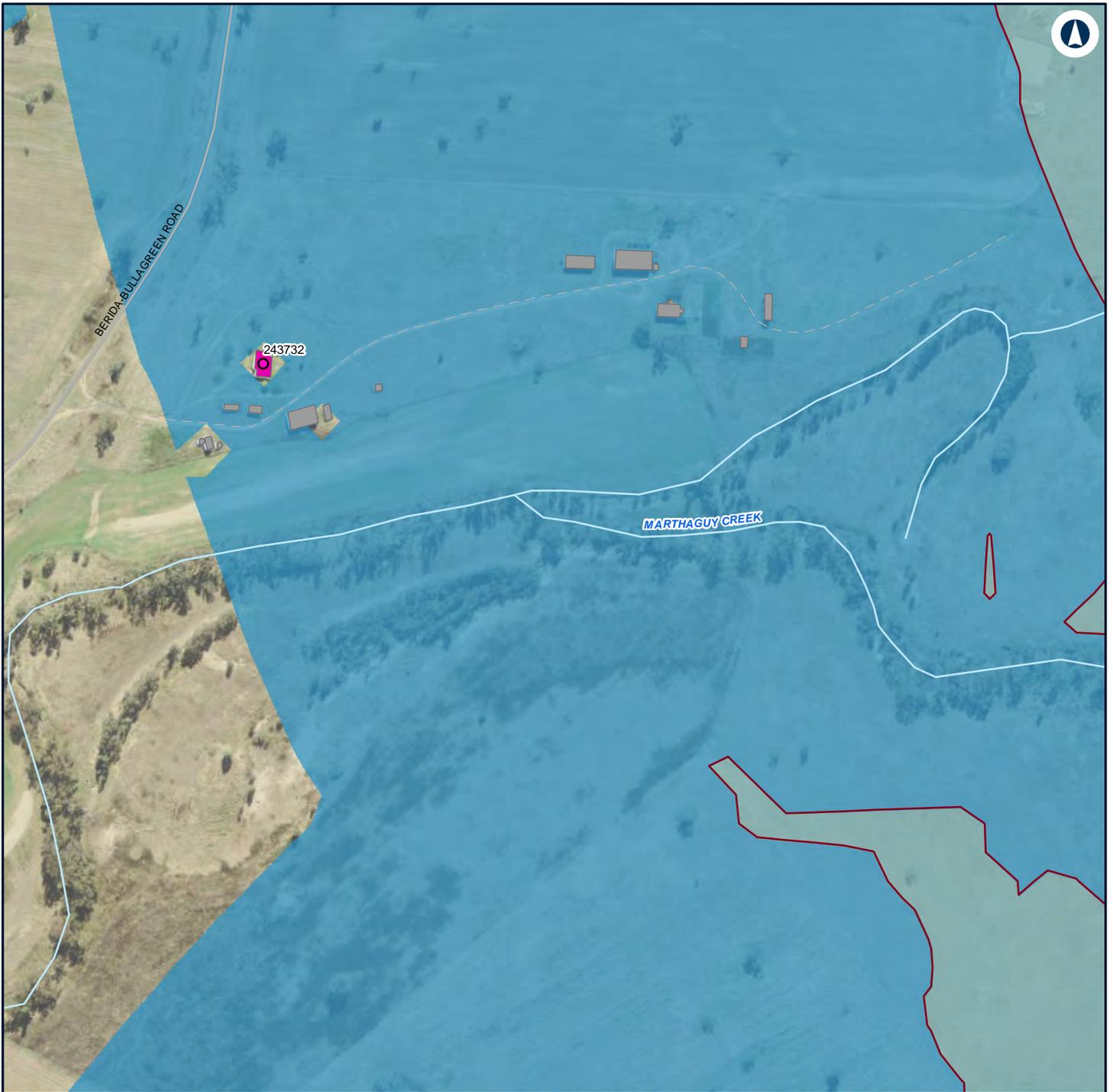
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD



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LEGEND

- Structure type**
- 35 - 40
 - Residential
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 120 of 304



Coordinate System: GDA 1994 MGA Zone 55

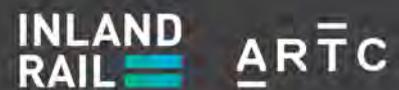
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LEGEND

Structure type

- Residential
- Other
- Residential

Noise level (dBA L

Aeq 15 minute)

- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



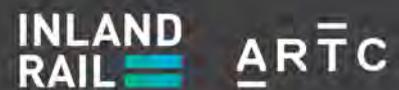
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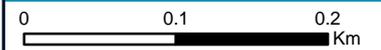
LEGEND

Structure type

- Residential
- Other
- Residential

Noise level (dBA L

- Aeq 15 minute)
- 30 - 35

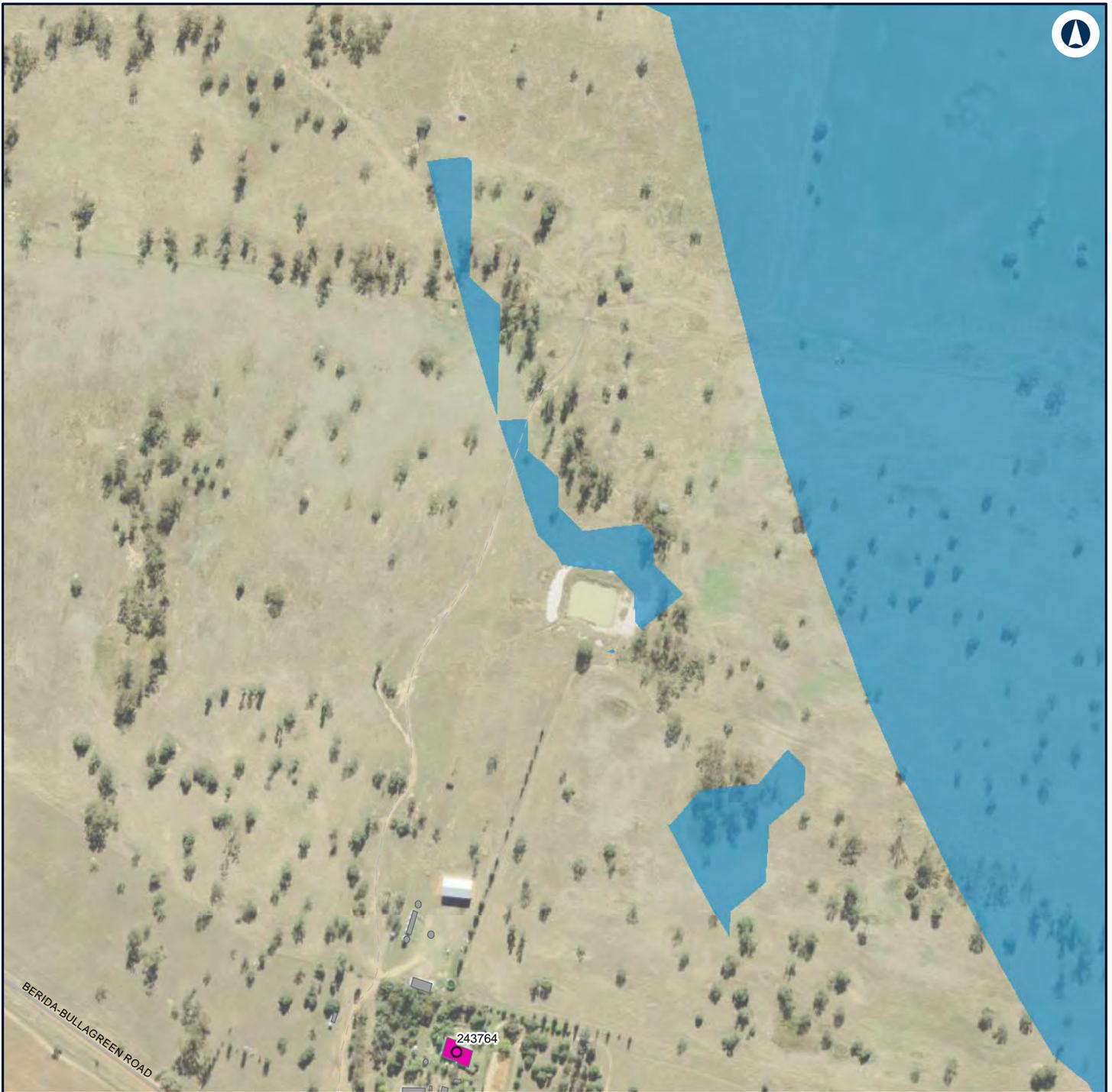


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LEGEND

Structure type

- Residential
- Other
- Residential

Noise level (dBA L

Aeq 15 minute)

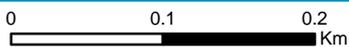
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 123 of 304



Coordinate System: GDA 1994 MGA Zone 55

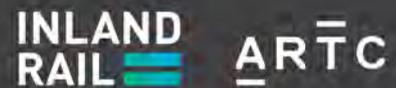
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LEGEND

Structure type

- Residential
- Other
- Residential

Noise level (dBA L

- Aeq 15 minute)
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



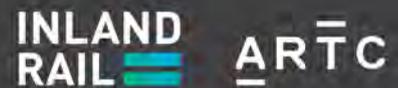
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LEGEND

- Structure type**
- 35 - 40
 - Residential
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI Construction noise contours, Scenario ROAD03 - Road Earthworks Appendix G - Page 125 of 304

0 0.1 0.2 Km

Coordinate System: GDA 1994 MGA Zone 55

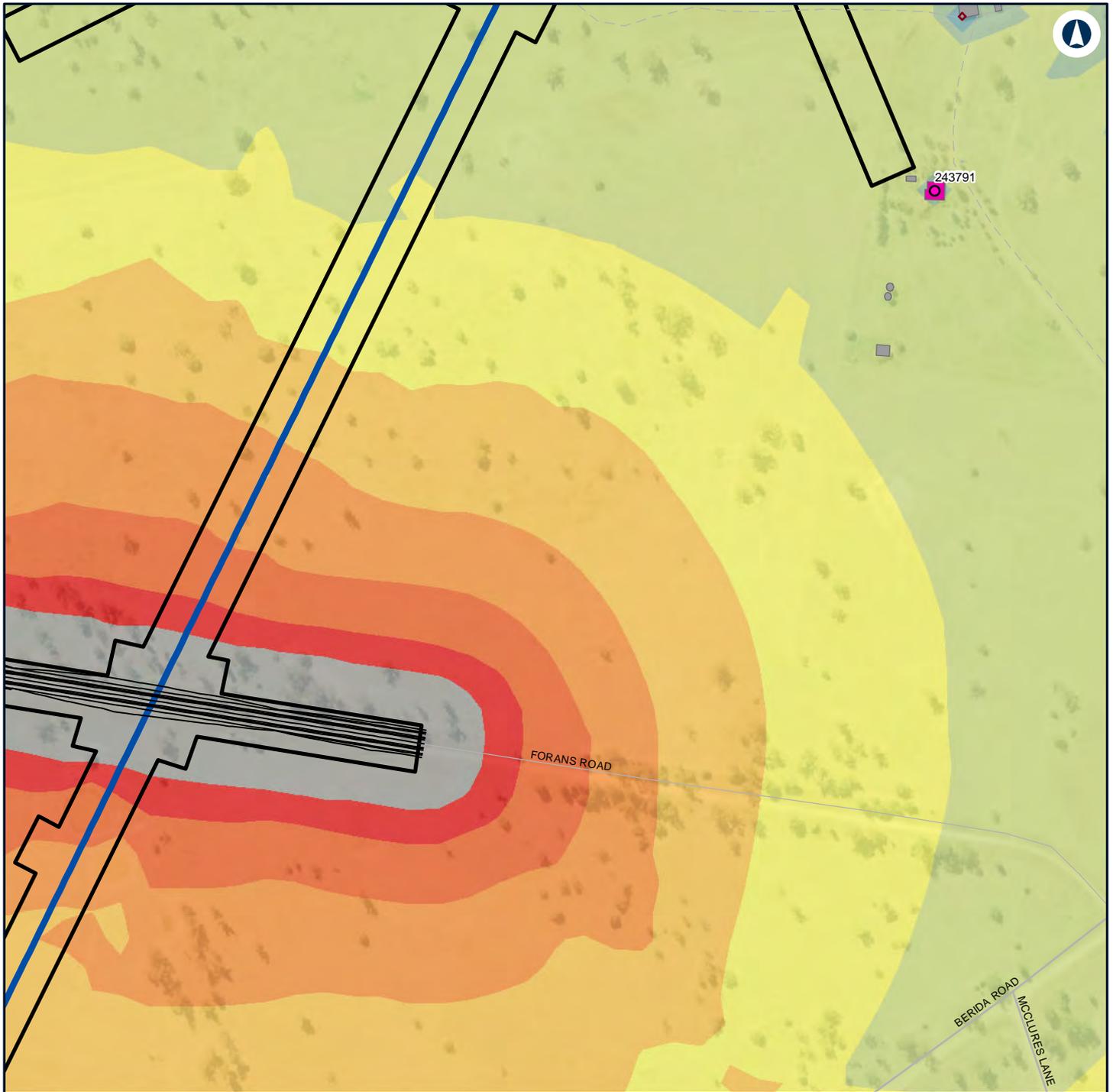
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LEGEND

- Alignment
- Road design string
- Construction footprint
- Structure type**
- Residential
- Other
- Residential
- Noise level (dBA L Aeq 15 minute)**
- 30 - 35
- 35 - 40
- 40 - 45
- 45 - 50
- 50 - 55
- 55 - 60
- 60 - 65
- 65 - 70
- 70 - 75
- > 75



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



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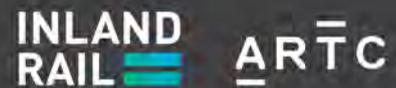
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LEGEND

Structure type

- Residential
- Other
- Residential

Noise level (dBA L

Aeq 15 minute)

- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



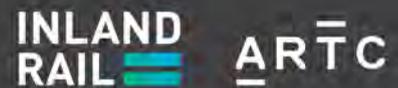
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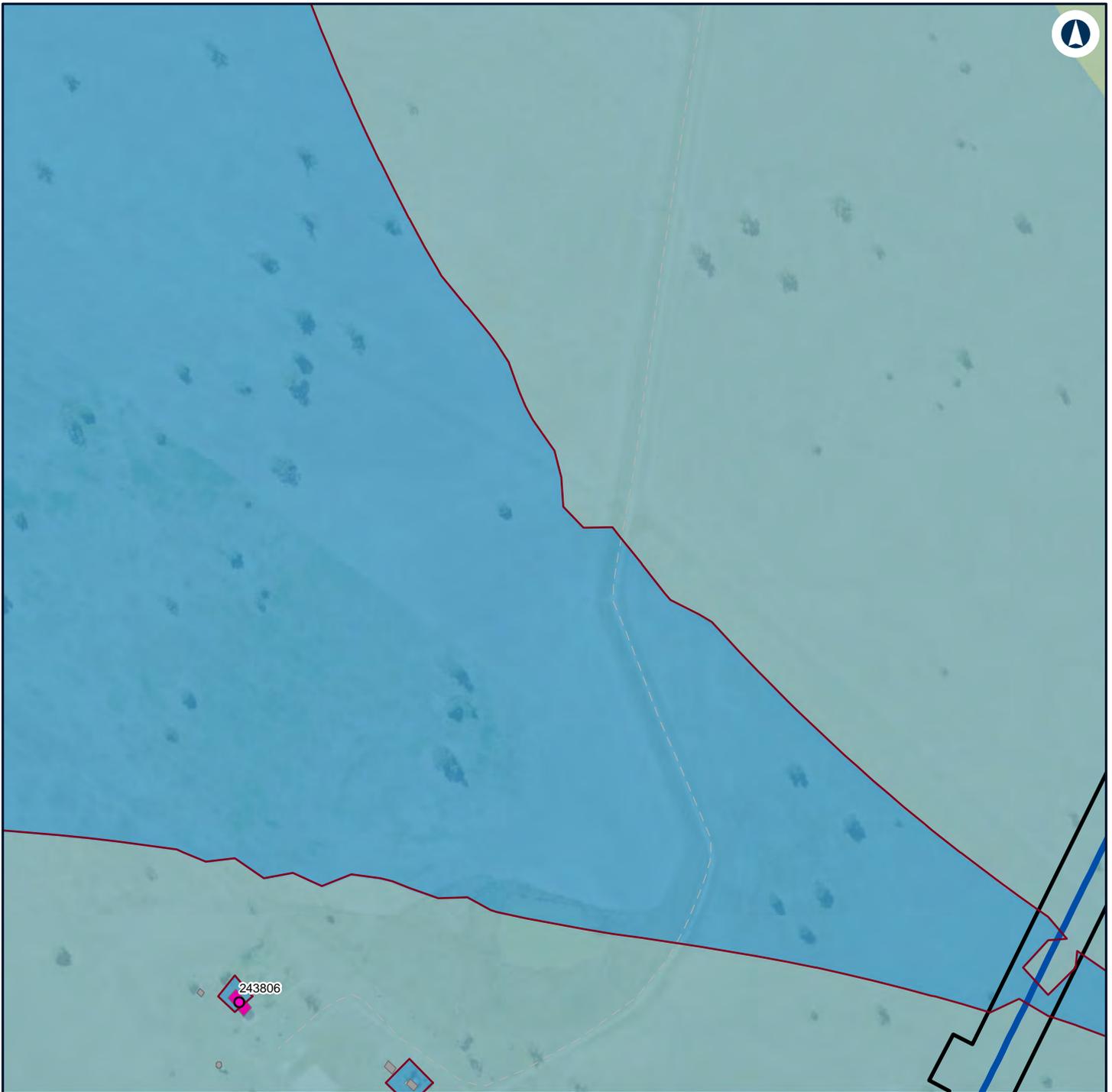
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LEGEND

- | | |
|------------------------|---------------------------|
| Alignment | Noise level (dBA L |
| Construction footprint | Aeq 15 minute) |
| Structure type | 30 - 35 |
| Residential | 35 - 40 |
| Other | 40 - 45 |
| Residential | |



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



Coordinate System: GDA 1994 MGA Zone 55

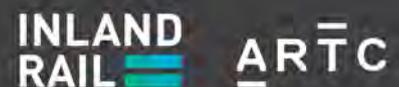
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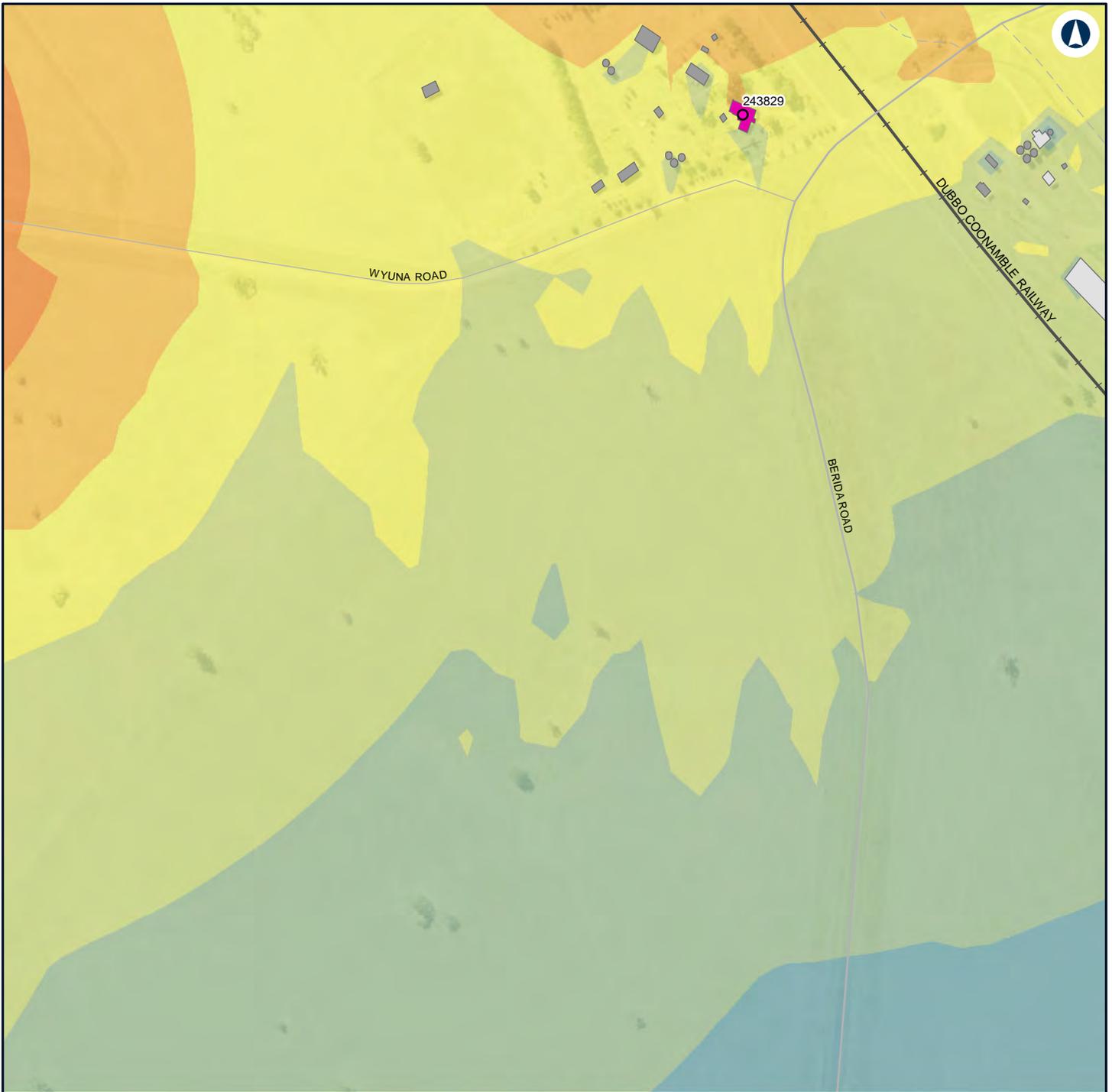
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LEGEND

Structure type

- Residential
- Commercial/Industrial
- Other
- Residential

Noise level (dBA L

Aeq 15 minute)

- 35 - 40
- 40 - 45
- 45 - 50
- 50 - 55
- 55 - 60

60 - 65



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



Coordinate System: GDA 1994 MGA Zone 55

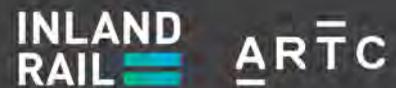
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LEGEND

- Structure type**
- 35 - 40
 - Residential
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



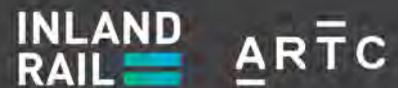
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LEGEND

Structure type

- Residential
- Other
- Residential

Noise level (dBA L

Aeq 15 minute)

- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



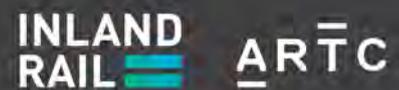
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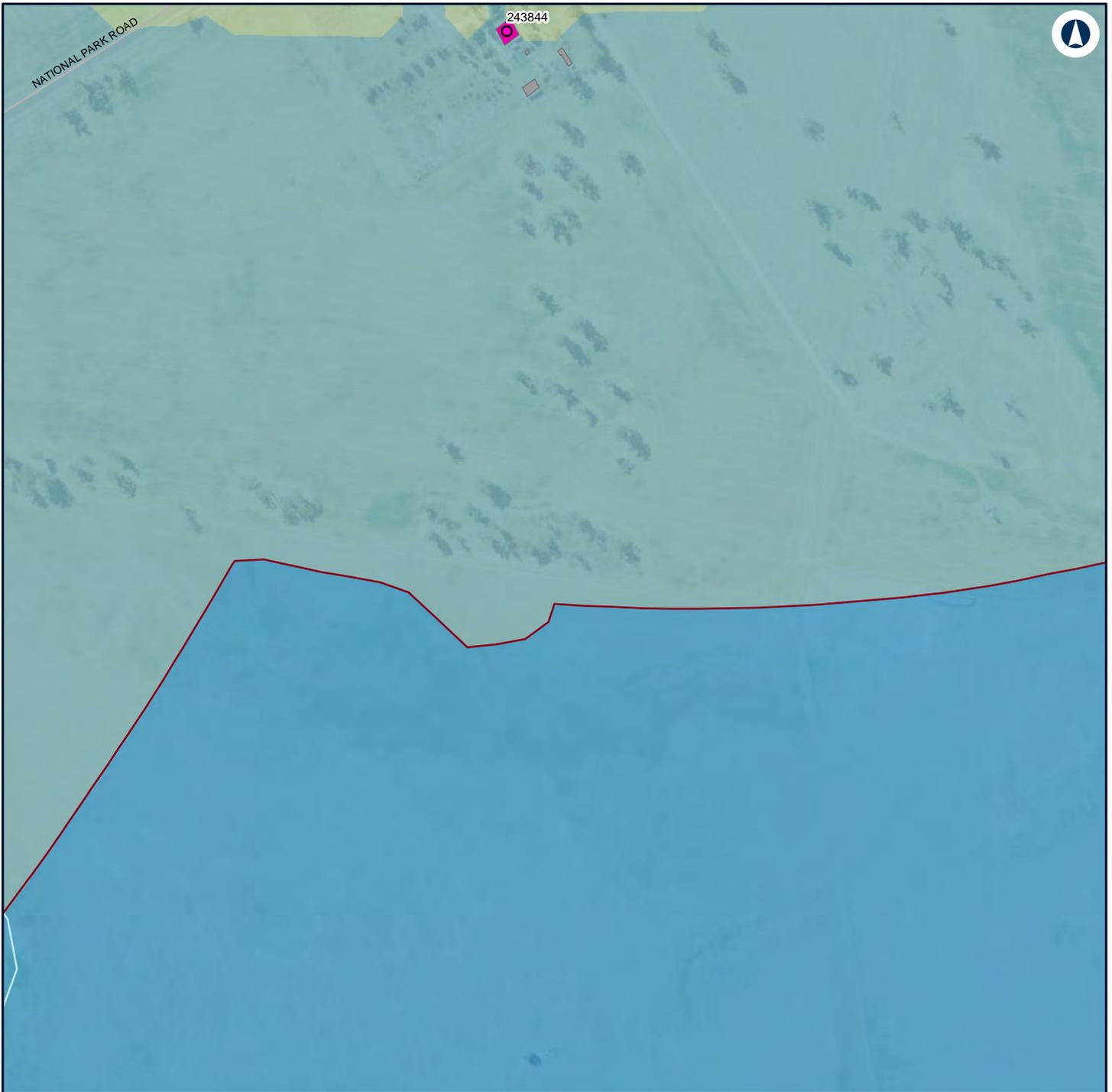
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LEGEND

- Structure type**
- 35 - 40
 - 40 - 45
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



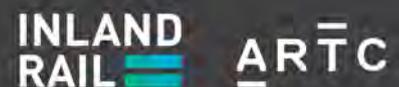
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LEGEND

- Structure type**
- 35 - 40
 - Residential
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



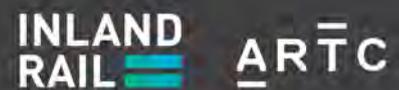
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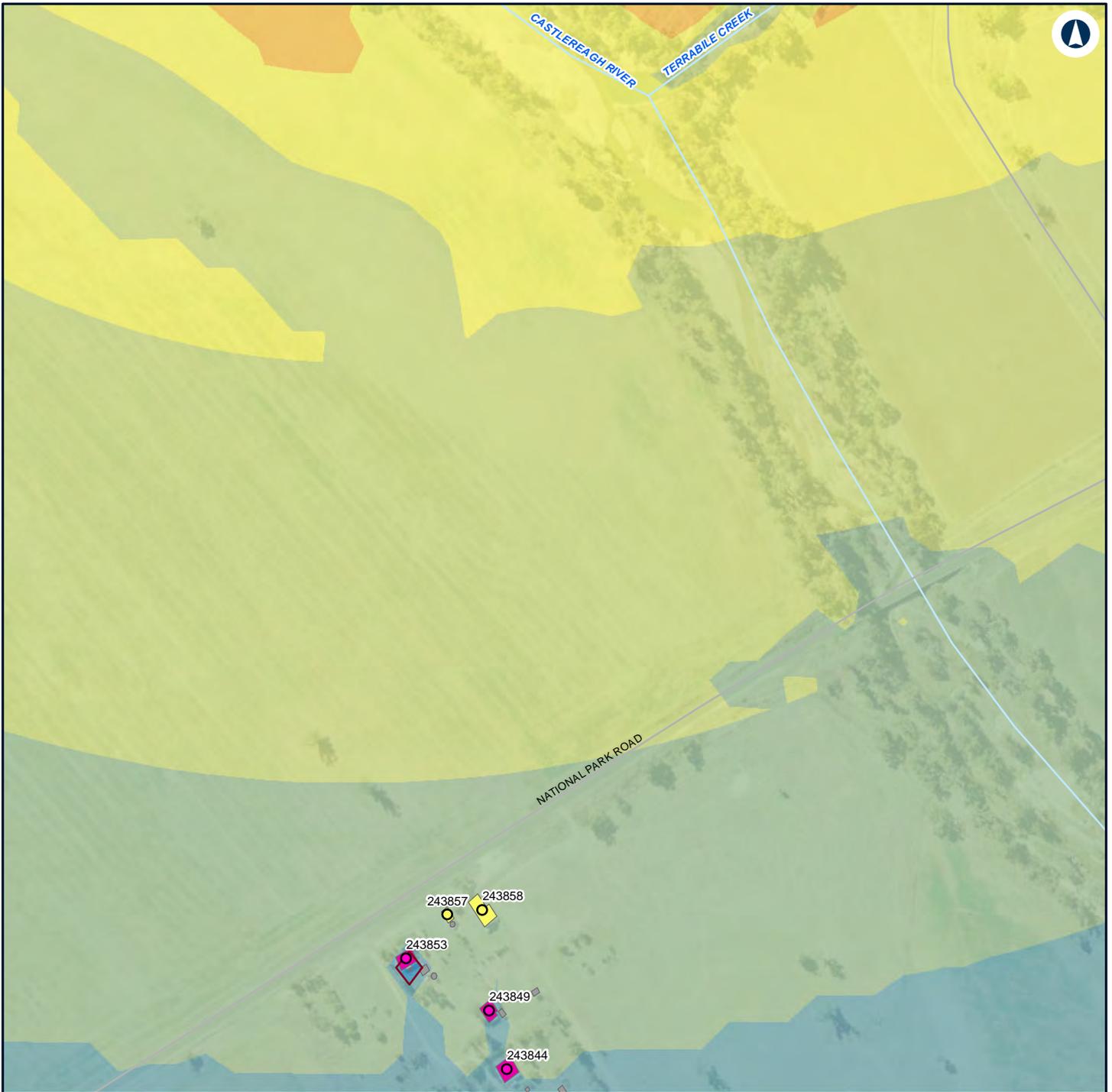
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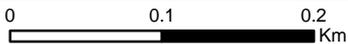


LEGEND

Structure type	Noise level (dBA L Aeq 15 minute)	Color
Community	30 - 35	Light Blue
Residential	35 - 40	Medium Blue
Community	40 - 45	Light Green
Other	45 - 50	Medium Green
Residential	50 - 55	Yellow
Community	55 - 60	Orange



NARROMINE TO NARRABRI Construction noise contours, Scenario ROAD03 - Road Earthworks Appendix G - Page 134 of 304

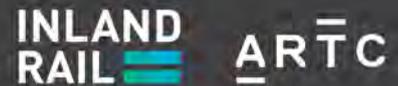


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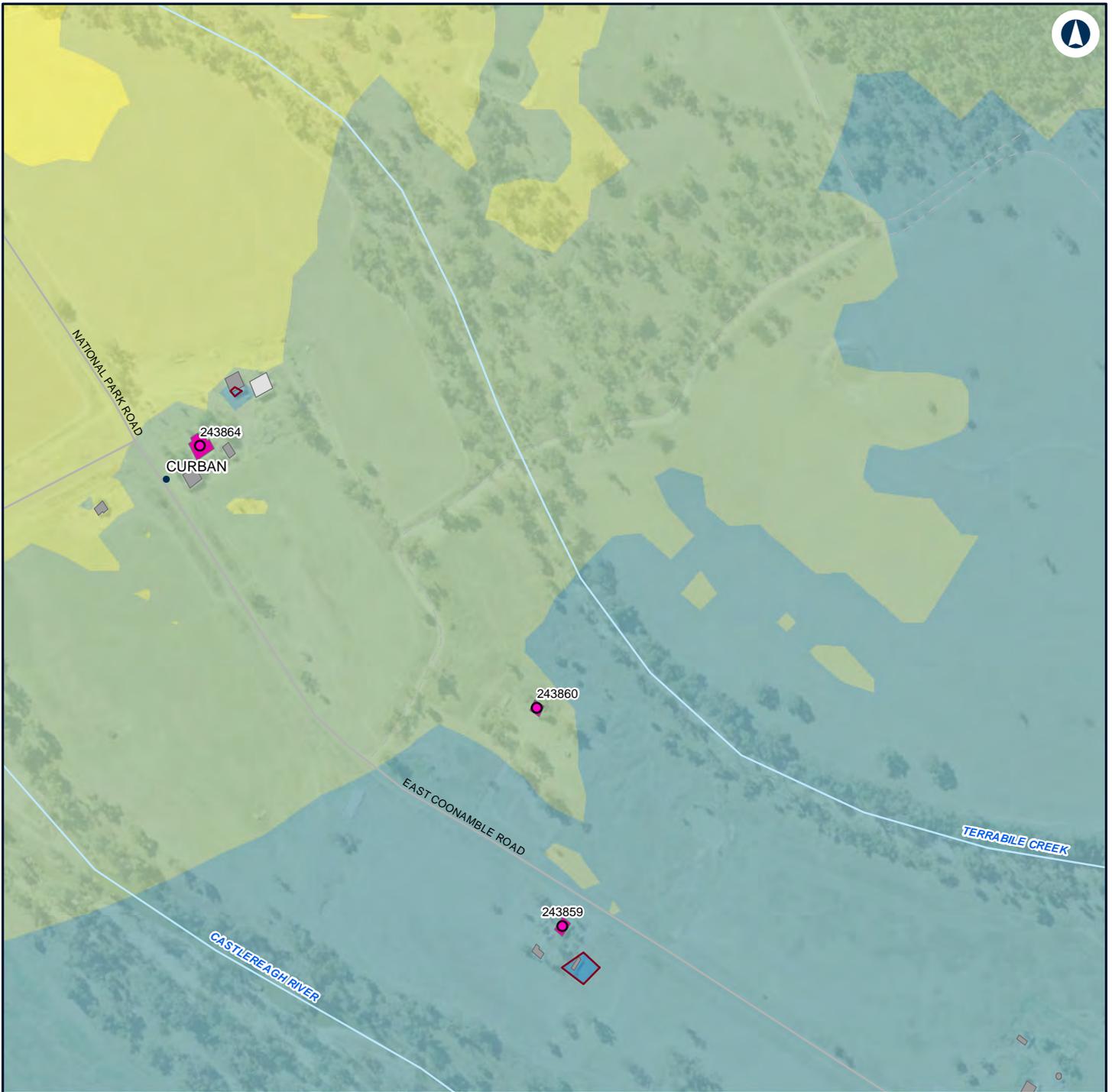
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LEGEND

Structure type	Residential	50 - 55
Active recreation	Noise level (dBA L) Aeq 15 minute)	30 - 35
Residential	35 - 40	40 - 45
Active recreation	45 - 50	
Commercial/ Industrial		
Other		



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

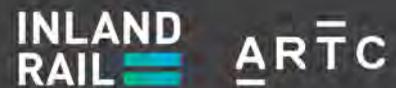


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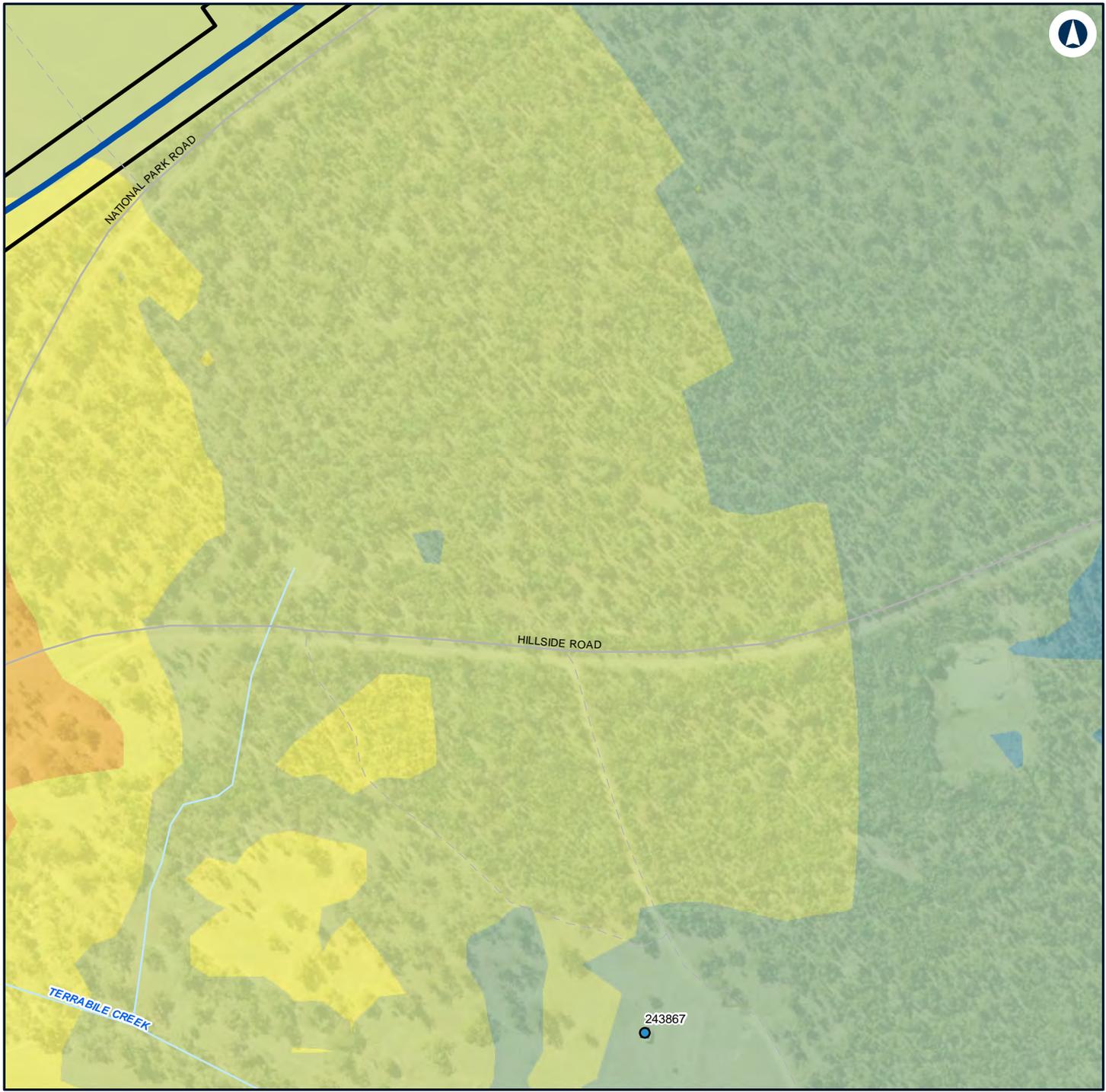
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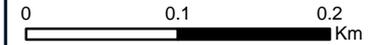


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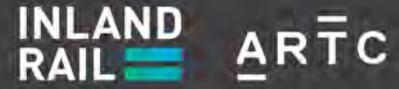
LEGEND

- Alignment
- Construction footprint
- Structure type**
 - Active recreation
 - Active recreation
- Noise level (dBA L Aeq 15 minute)**
 - 35 - 40
 - 40 - 45
 - 45 - 50
 - 50 - 55
 - 55 - 60



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LEGEND

Structure type

- Residential
- Residential

Noise level (dBA L

Aeq 15 minute)

- 30 - 35
- 35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



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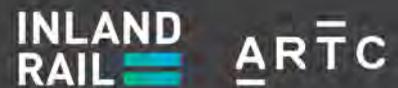
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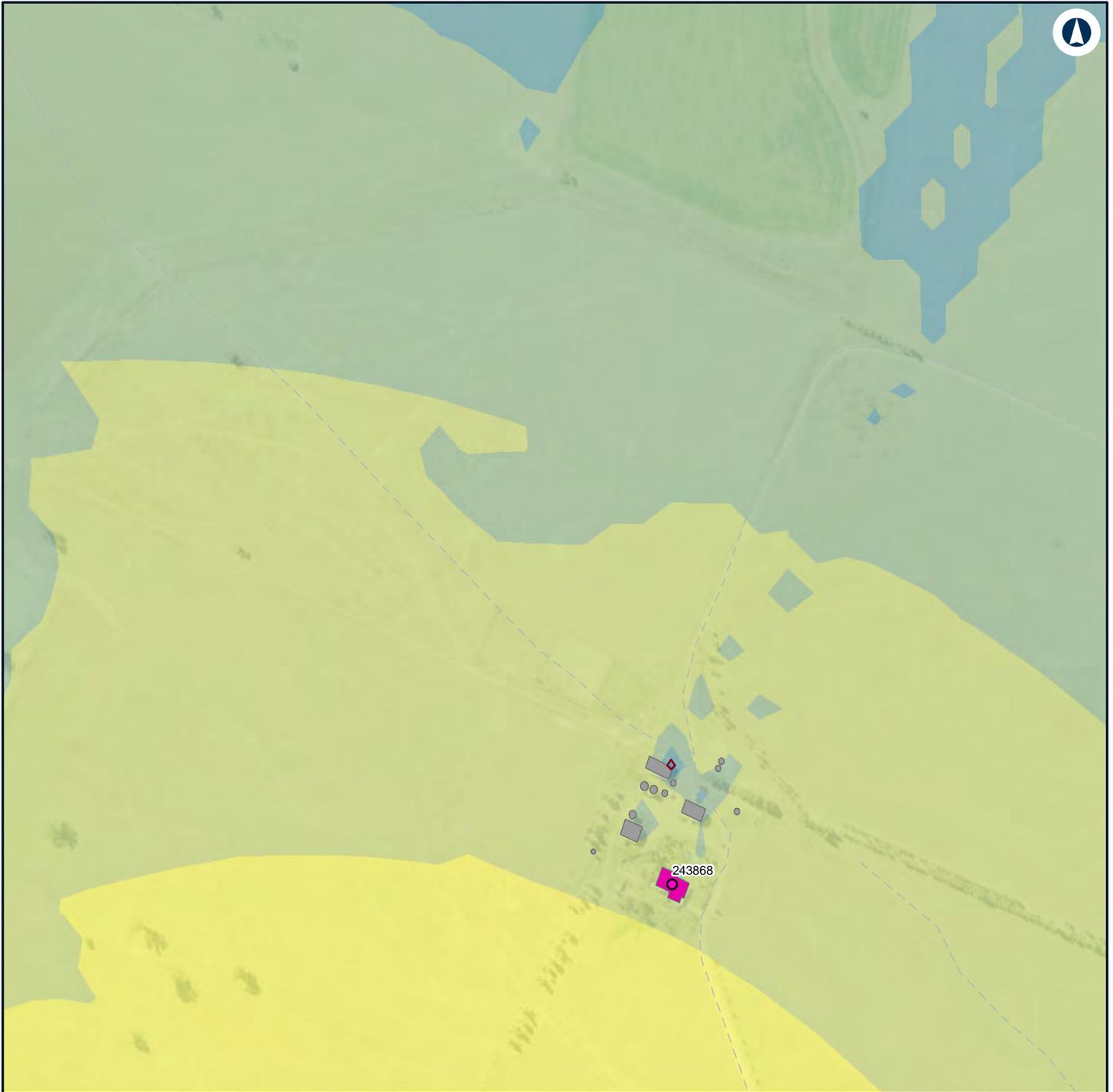
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LEGEND

Structure type		35 - 40
● Residential		40 - 45
■ Other		45 - 50
■ Residential		50 - 55

Noise level (dBA L

Aeq 15 minute)
 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



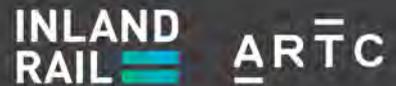
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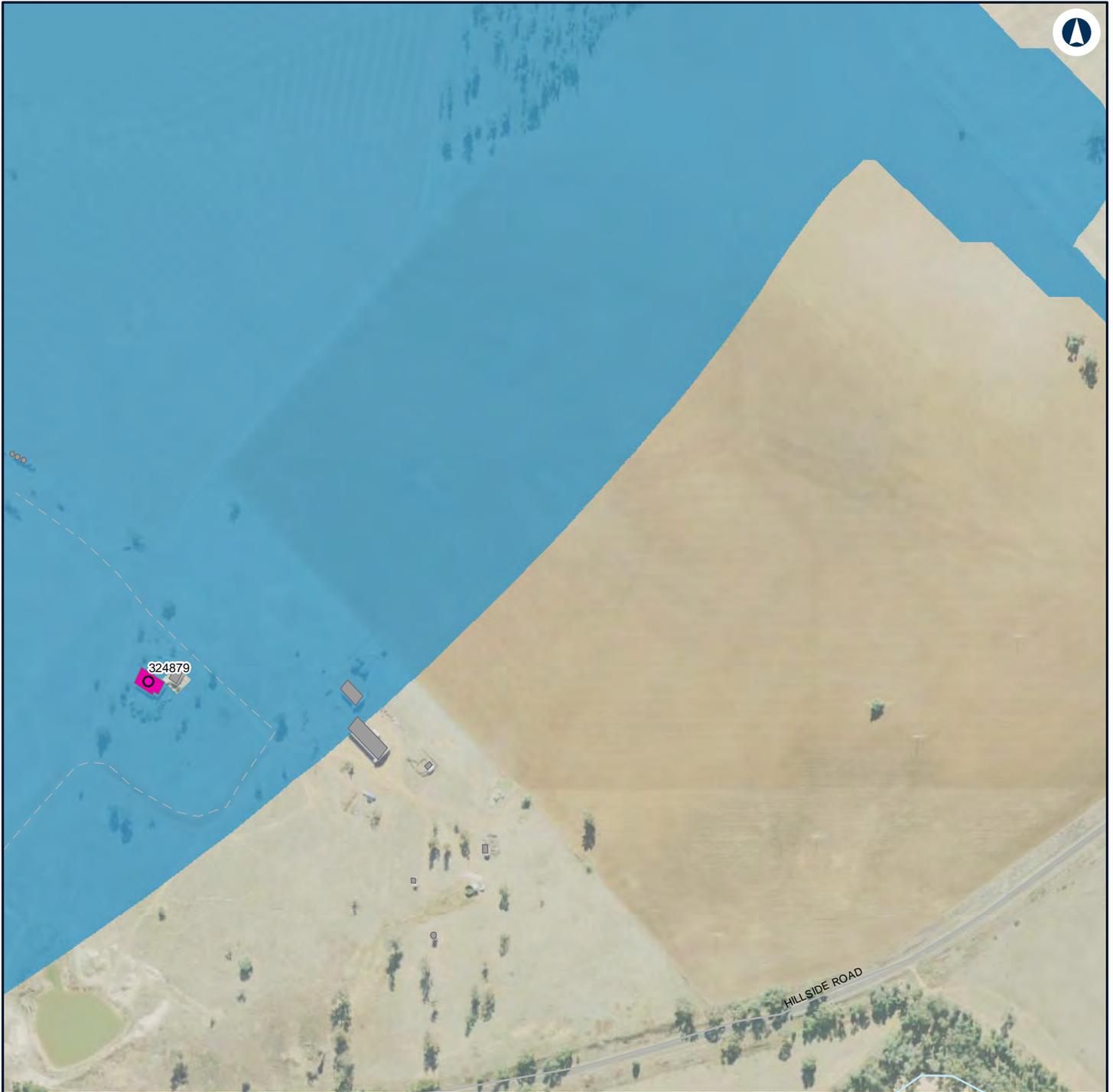
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LEGEND

Structure type

- Residential
- Other
- Residential

Noise level (dBA L

Aeq 15 minute)
 30 - 35



0 0.1 0.2 Km

Coordinate System: GDA 1994 MGA Zone 55

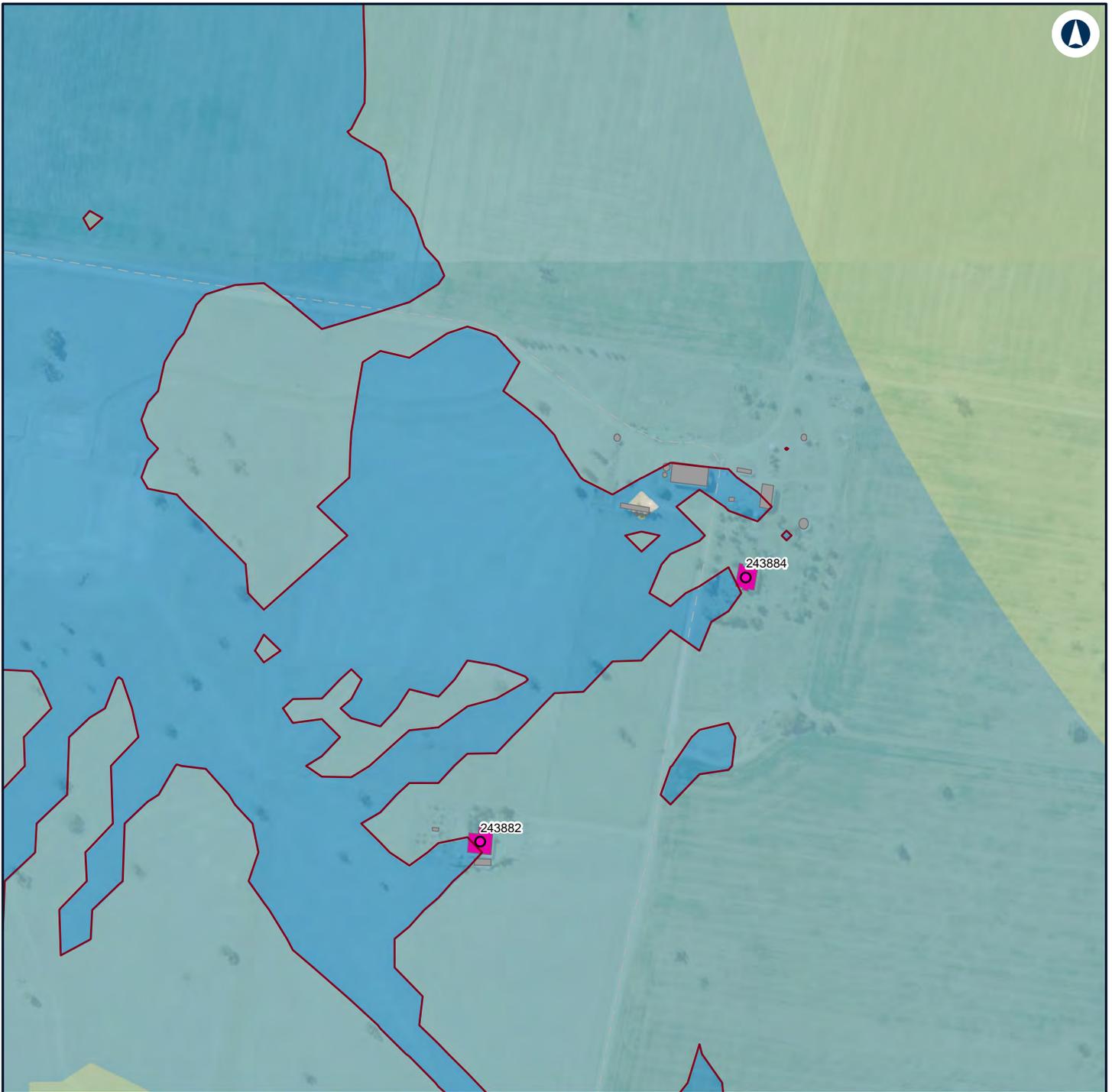
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LEGEND

- Structure type**
- 35 - 40
 - 40 - 45
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 140 of 304



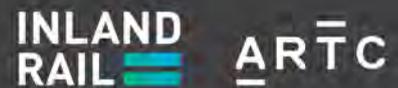
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LEGEND

Structure type

-  Residential
-  Other
-  Residential

Noise level (dBA L

Aeq 15 minute)

-  30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



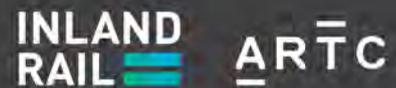
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LEGEND

Structure type

- Residential
- Residential

Noise level (dBA L

Aeq 15 minute)

- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



Coordinate System: GDA 1994 MGA Zone 55

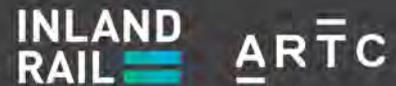
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LEGEND

- Structure type**
- 35 - 40
 - Residential
 - Other
 - Residential
- Noise level (dBA L)**
Aeq 15 minute)
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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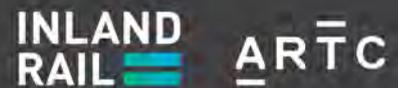
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LEGEND

- Structure type**
- 35 - 40
 - 40 - 45
 - Other
 - 45 - 50
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



Coordinate System: GDA 1994 MGA Zone 55

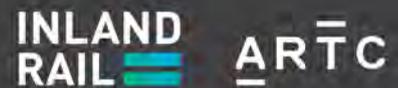
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LEGEND

Structure type

- Residential
- Residential

Noise level (dBA L

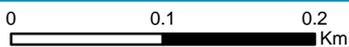
Aeq 15 minute)

- 30 - 35
- 35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



Coordinate System: GDA 1994 MGA Zone 55

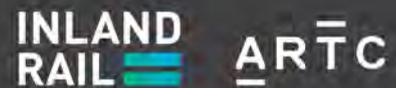
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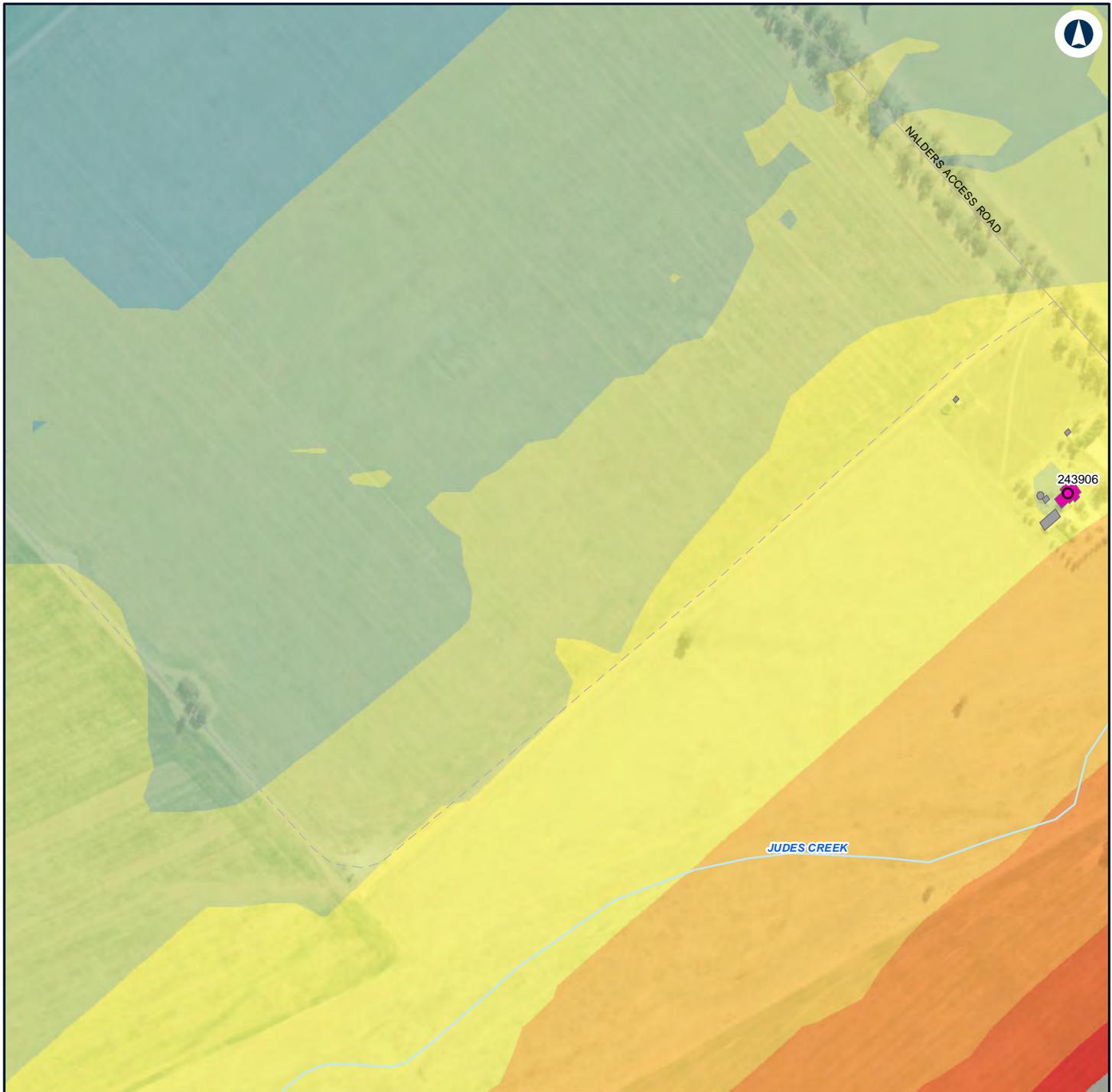
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LEGEND

Structure type	40 - 45	> 75
Residential	45 - 50	
Other	50 - 55	
Residential	55 - 60	
Noise level (dBA L Aeq 15 minute)	60 - 65	
35 - 40	65 - 70	
	70 - 75	



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 146 of 304



Coordinate System: GDA 1994 MGA Zone 55

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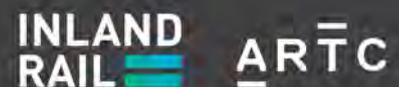
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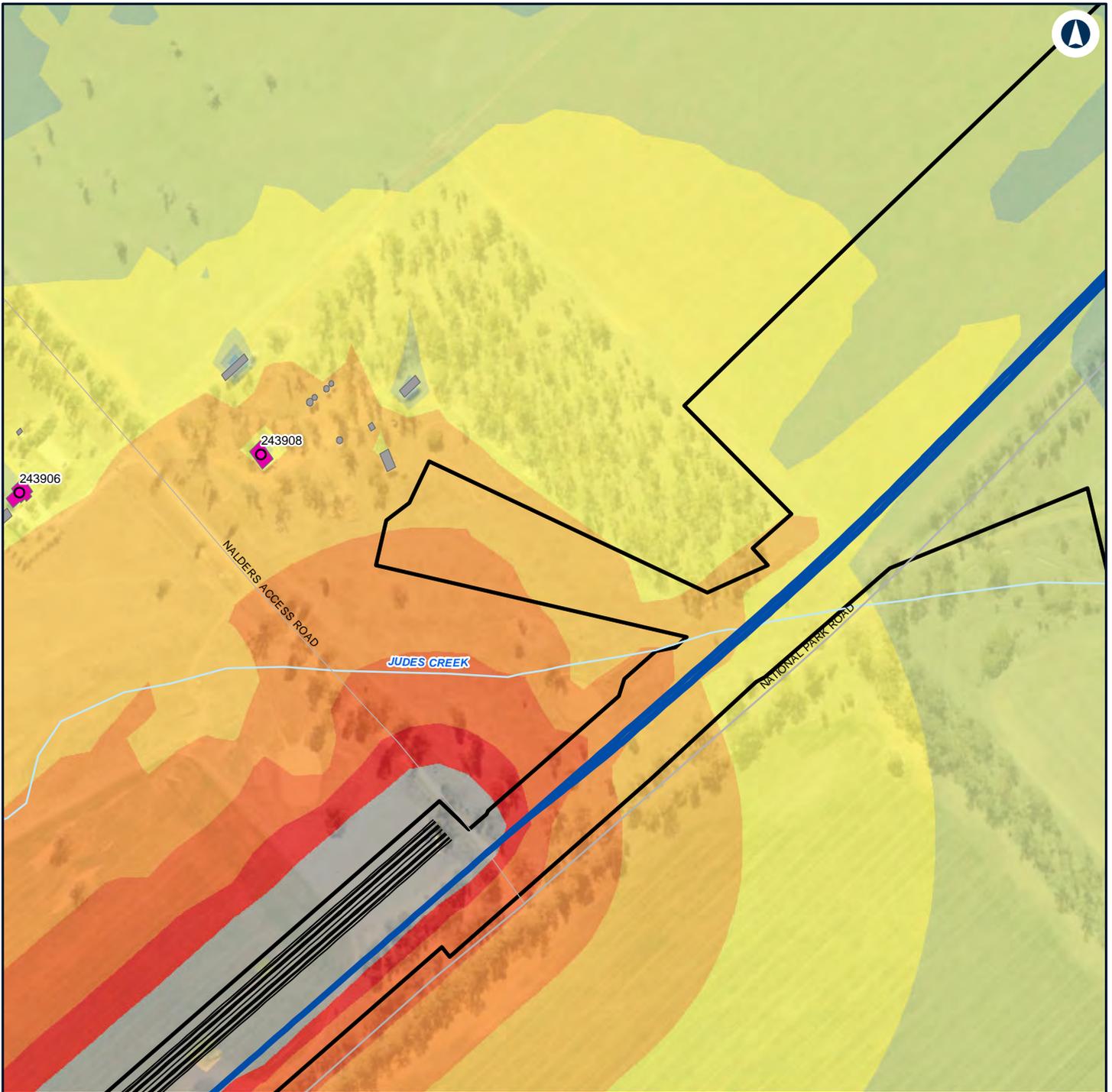
Author: GHD

Scale: 1:5,000

Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD



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LEGEND

- Alignment
- Road design string
- Construction footprint
- Structure type**
- Residential
- Other
- Residential
- Noise level (dBA L Aeq 15 minute)**
- 35 - 40
- 40 - 45
- 45 - 50
- 50 - 55
- 55 - 60
- 60 - 65
- 65 - 70
- 70 - 75
- > 75



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



Coordinate System: GDA 1994 MGA Zone 55

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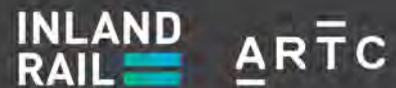
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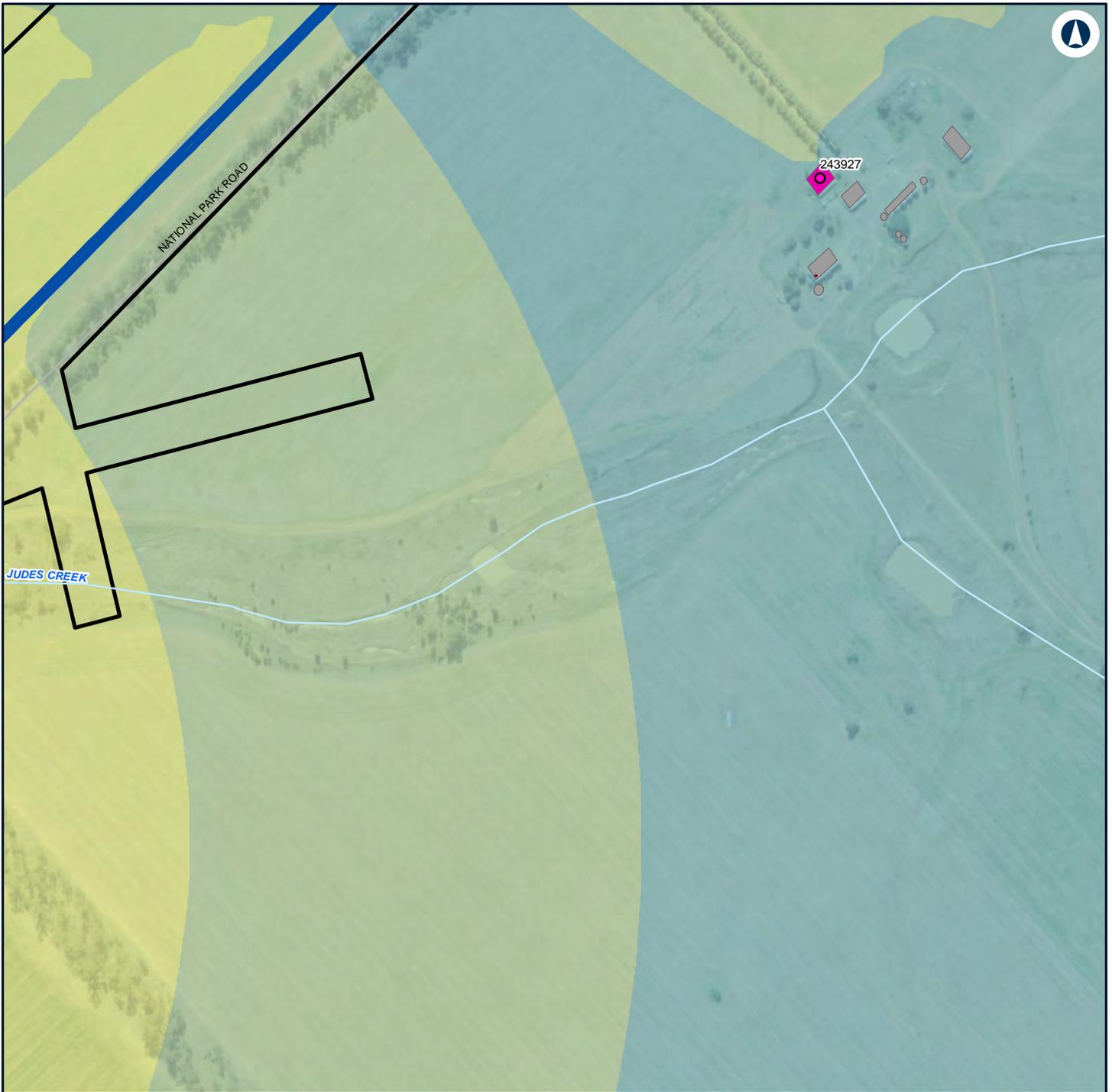
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LEGEND

- Alignment
 - Construction footprint
 - Structure type**
 - Residential
 - Other
 - Residential
- | | |
|---|-----------------------|
| Noise level (dBA L | Aeq 15 minute) |
| | 35 - 40 |
| | 40 - 45 |
| | 45 - 50 |



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

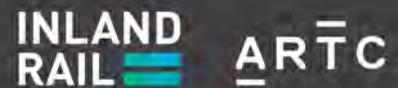


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LEGEND

Structure type

- Residential
- Other
- Residential

Noise level (dBA L

Aeq 15 minute)

- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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Coordinate System: GDA 1994 MGA Zone 55

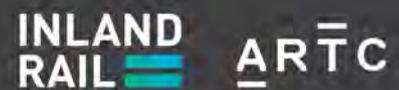
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LEGEND

- Structure type**
- 35 - 40
 - Residential
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



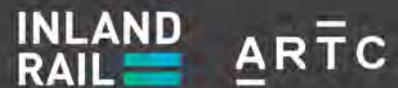
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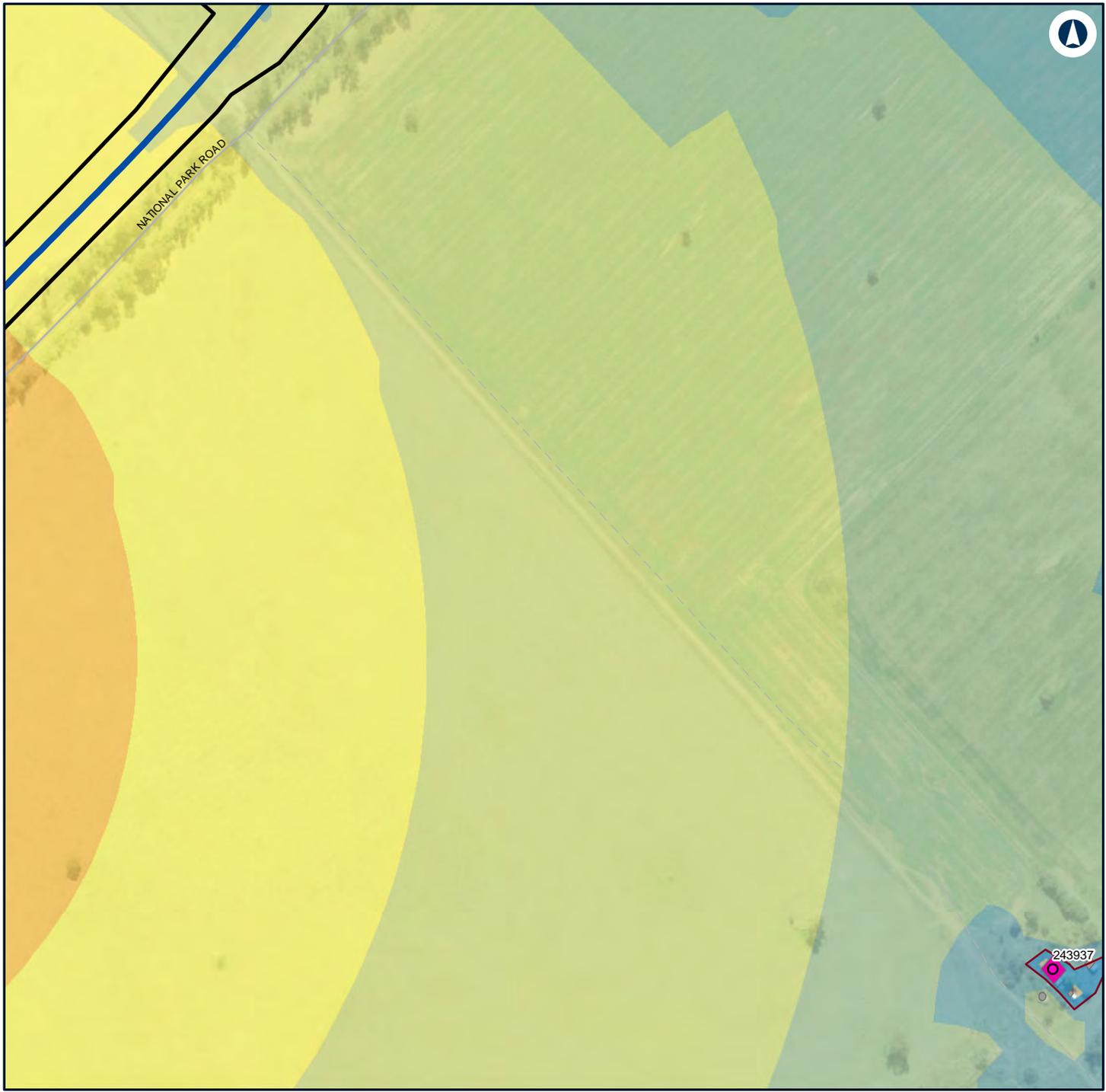
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LEGEND

- Alignment
 - Construction footprint
 - Structure type**
 - Residential
 - Other
 - Residential
- | | |
|---|--|
| Noise level (dBA L | 55 - 60 |
| Aeq 15 minute) | |
| 30 - 35 | |
| 35 - 40 | |
| 40 - 45 | |
| 45 - 50 | |
| 50 - 55 | |



0 0.1 0.2 Km

Coordinate System: GDA 1994 MGA Zone 55

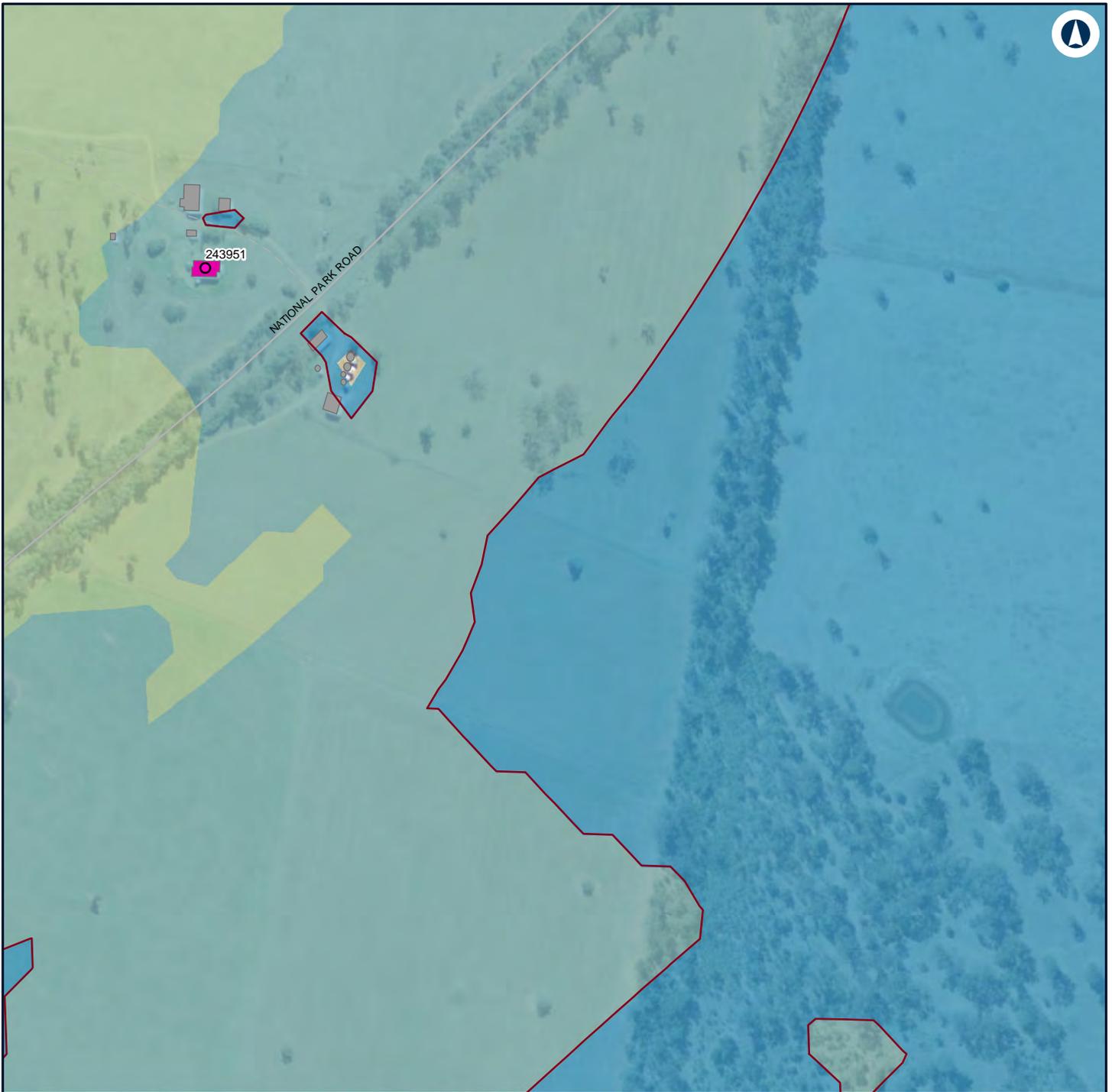
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LEGEND

- Structure type**
- 35 - 40
 - 40 - 45
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



Coordinate System: GDA 1994 MGA Zone 55

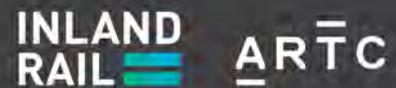
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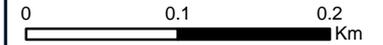
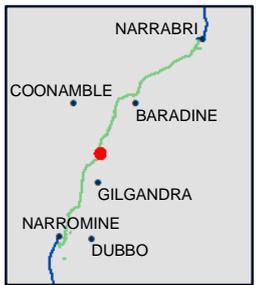


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LEGEND

Structure type	35 - 40
● Residential	40 - 45
■ Other	45 - 50
■ Residential	50 - 55
Noise level (dBA L	55 - 60
Aeq 15 minute)	
■	30 - 35

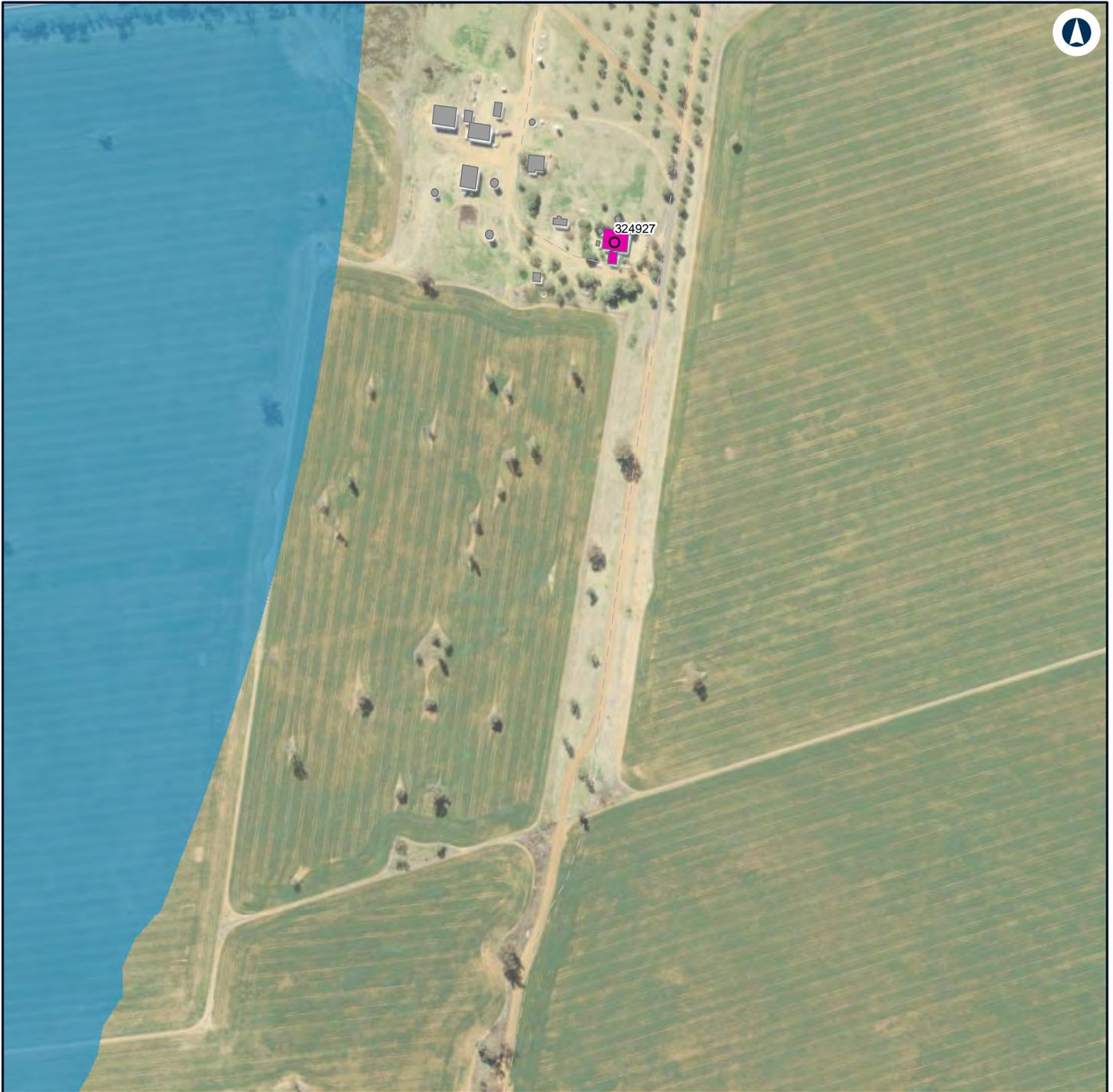


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LEGEND

Structure type

- Residential
- Other
- Residential

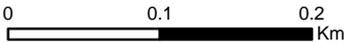
Noise level (dBA L

Aeq 15 minute)
 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



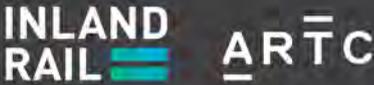
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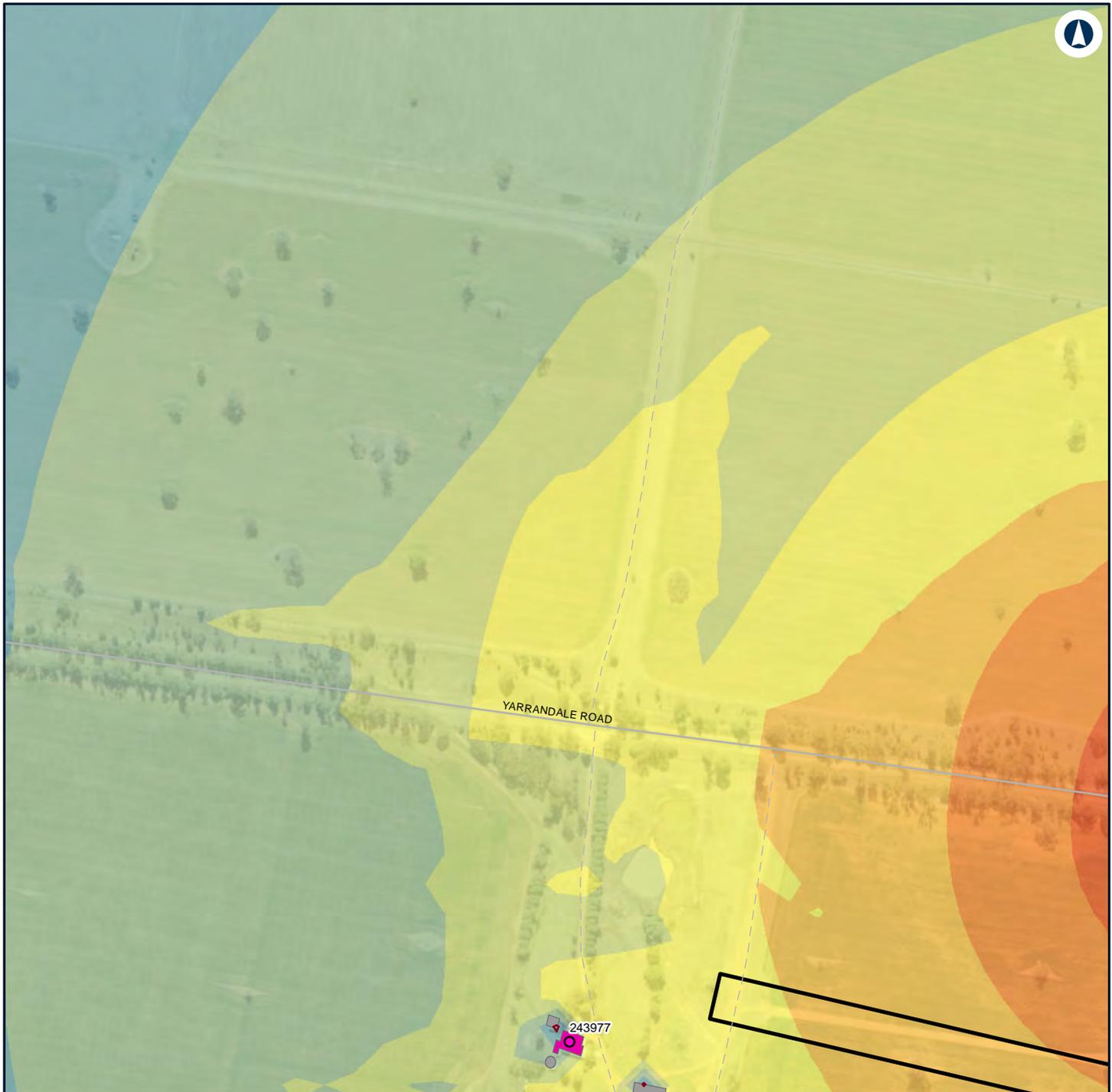
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LEGEND

-  Construction footprint
 - Structure type**
 -  Residential
 -  Other
 -  Residential
- | | |
|---|---|
| Noise level (dBA L |  55 - 60 |
| Aeq 15 minute) |  60 - 65 |
|  30 - 35 |  65 - 70 |
|  35 - 40 | |
|  40 - 45 | |
|  45 - 50 | |
|  50 - 55 | |



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

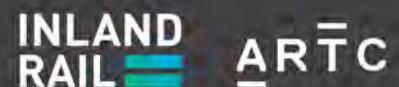


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LEGEND

Structure type

- Residential
- Other
- Residential

Noise level (dBA L

Aeq 15 minute)

- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



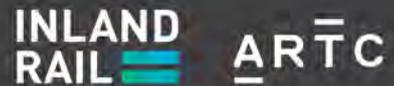
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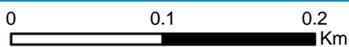
LEGEND

- Structure type**
- 35 - 40
 - Residential
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



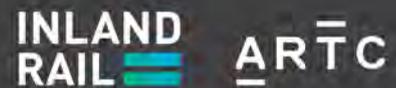
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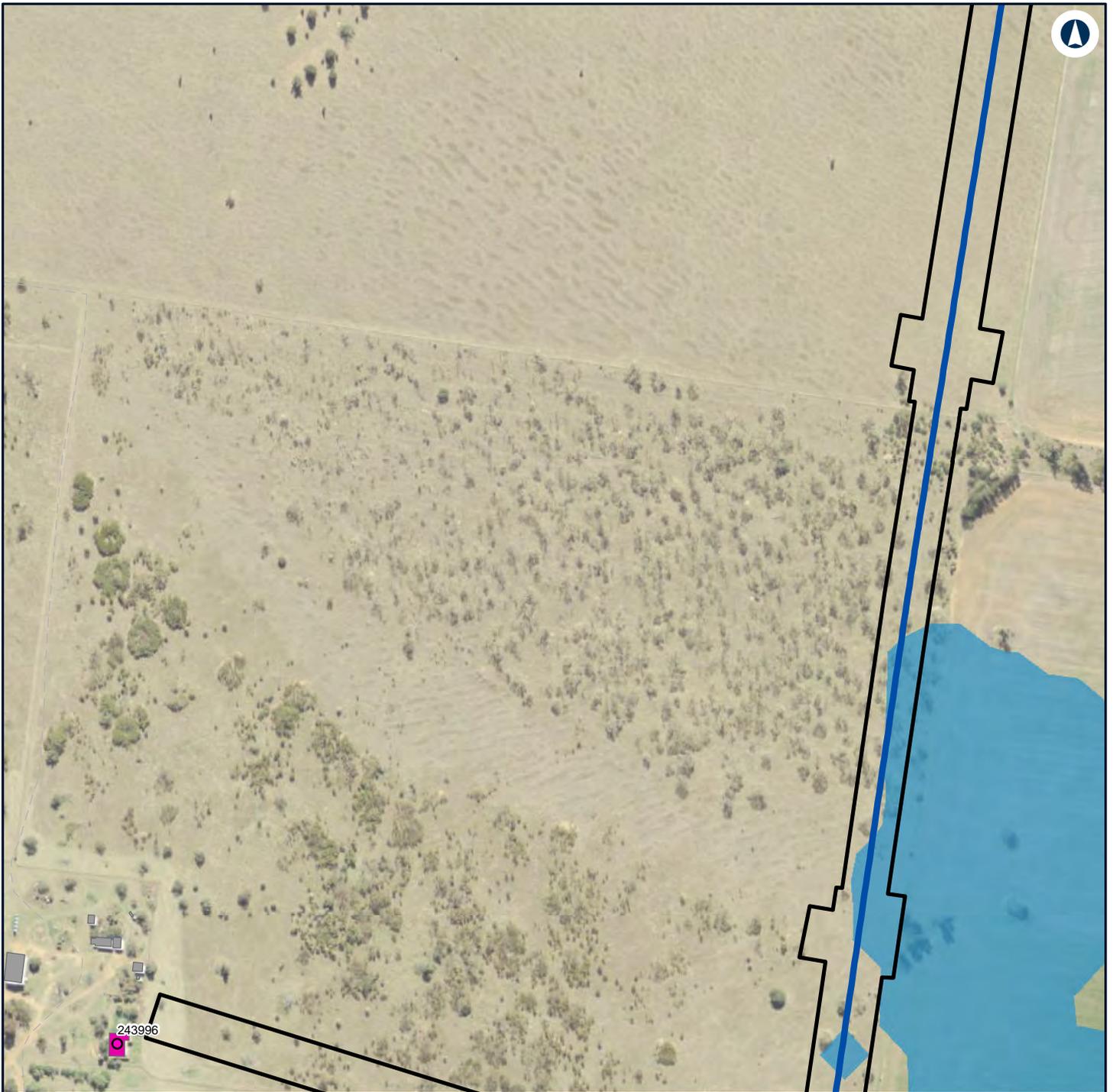
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LEGEND

— Alignment

▭ Construction footprint

Structure type

● Residential

■ Other

■ Residential

Noise level (dBA L

Aeq 15 minute)

■ 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



Coordinate System: GDA 1994 MGA Zone 55

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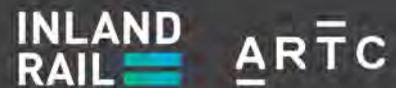
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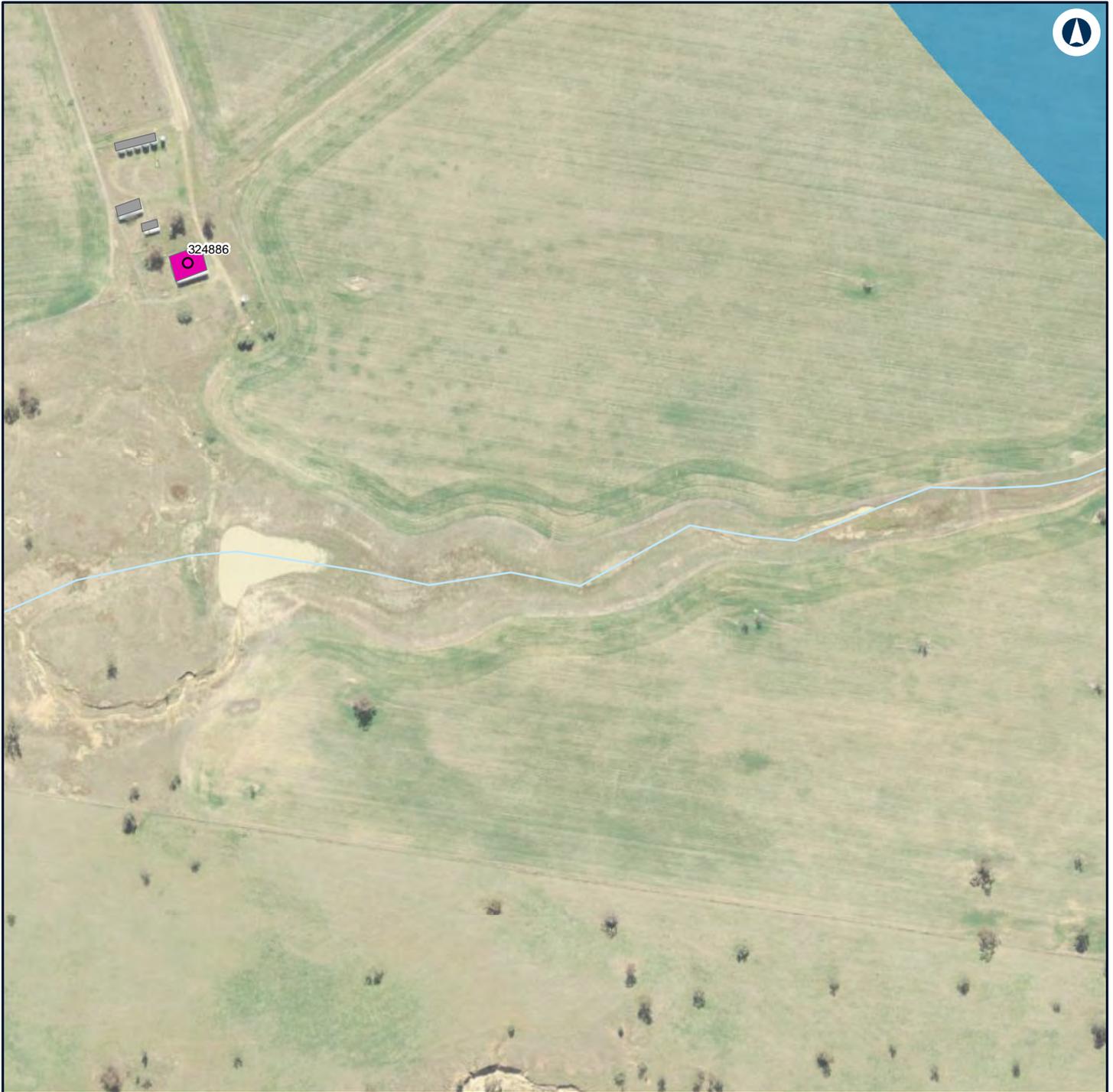
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Scale: 1:5,000

Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD



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LEGEND

Structure type

- Residential
- Other
- Residential

Noise level (dBA L

Aeq 15 minute)
 30 - 35



0 0.1 0.2 Km

Coordinate System: GDA 1994 MGA Zone 55

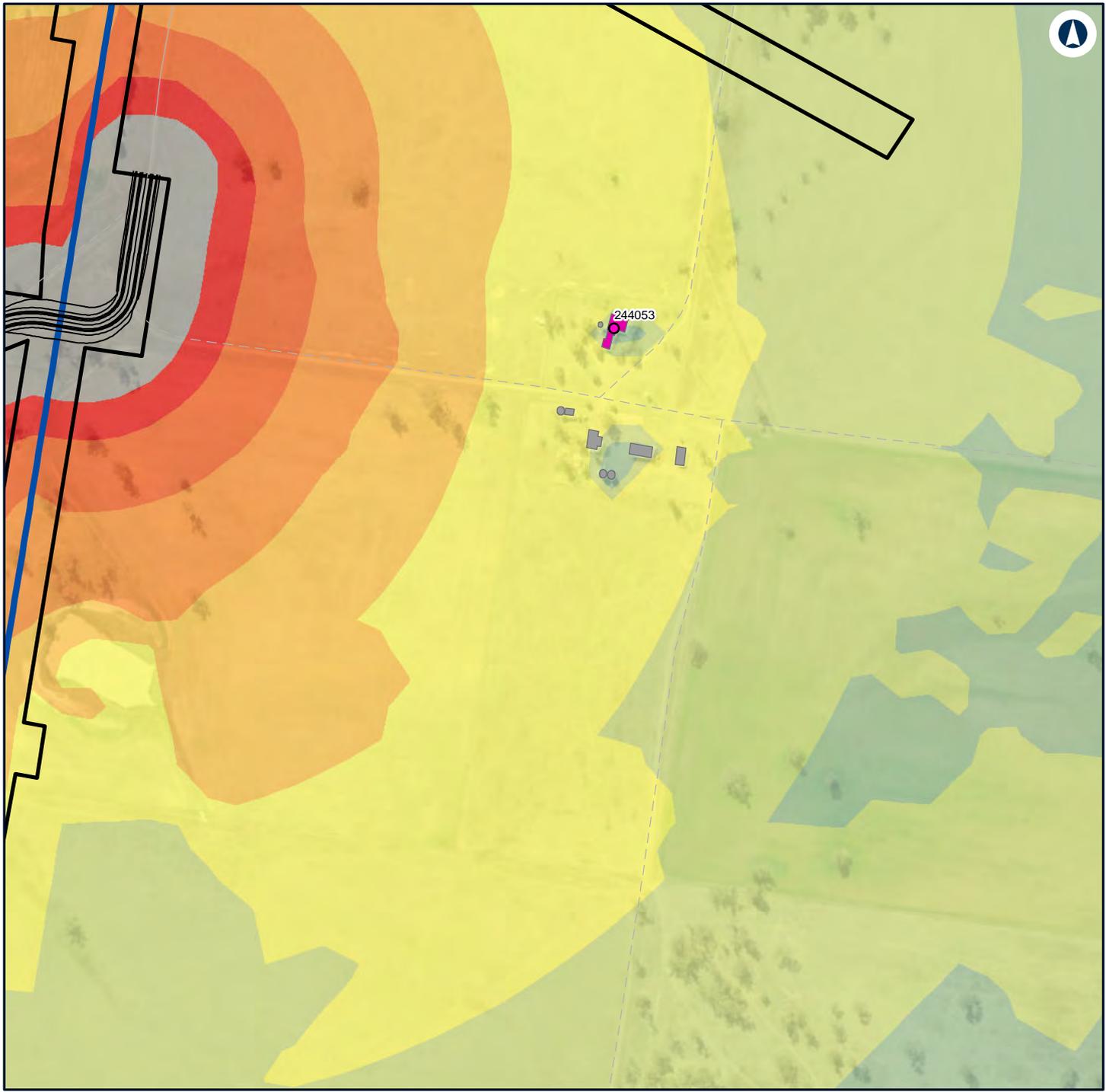
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INLAND RAIL **ARTC**

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LEGEND

- Alignment
- Road design string
- Construction footprint
- Structure type**
- Residential
- Other
- Residential
- Noise level (dBA L Aeq 15 minute)
- 35 - 40
- 40 - 45
- 45 - 50
- 50 - 55
- 55 - 60
- 60 - 65
- 65 - 70
- 70 - 75
- > 75



0 0.1 0.2 Km

Coordinate System: GDA 1994 MGA Zone 55

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LEGEND

Structure type		35 - 40
● Residential	■	40 - 45
■ Other	■	45 - 50
■ Residential		
Noise level (dBA L		
Aeq 15 minute)		
■		30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



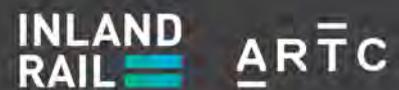
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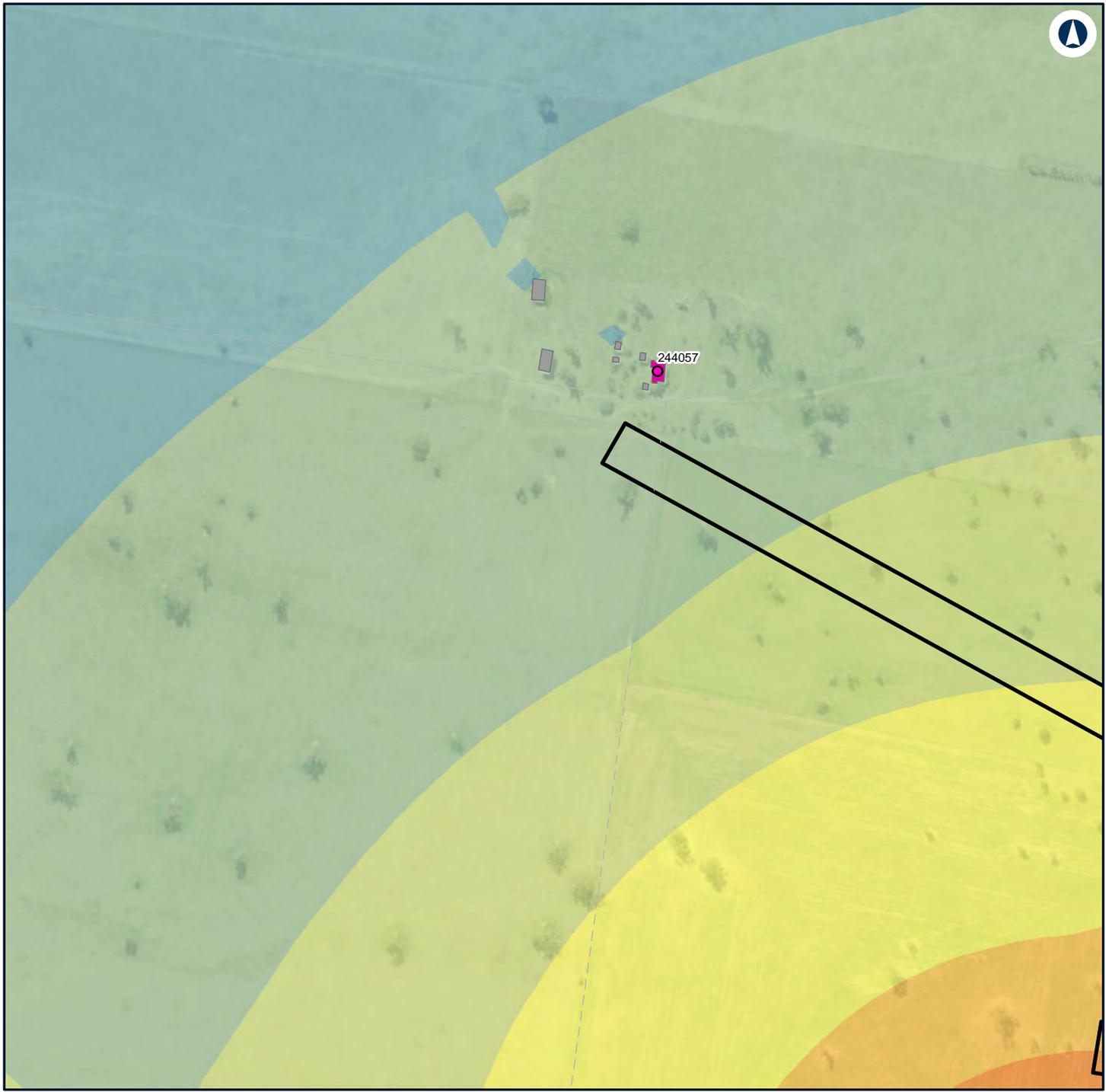
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LEGEND

- Construction footprint
- Structure type**
 - Residential
 - Other
 - Residential
- Noise level (dBA L Aeq 15 minute)**
 - 35 - 40
 - 40 - 45
 - 45 - 50
 - 50 - 55
 - 55 - 60
 - 60 - 65



0 0.1 0.2 Km

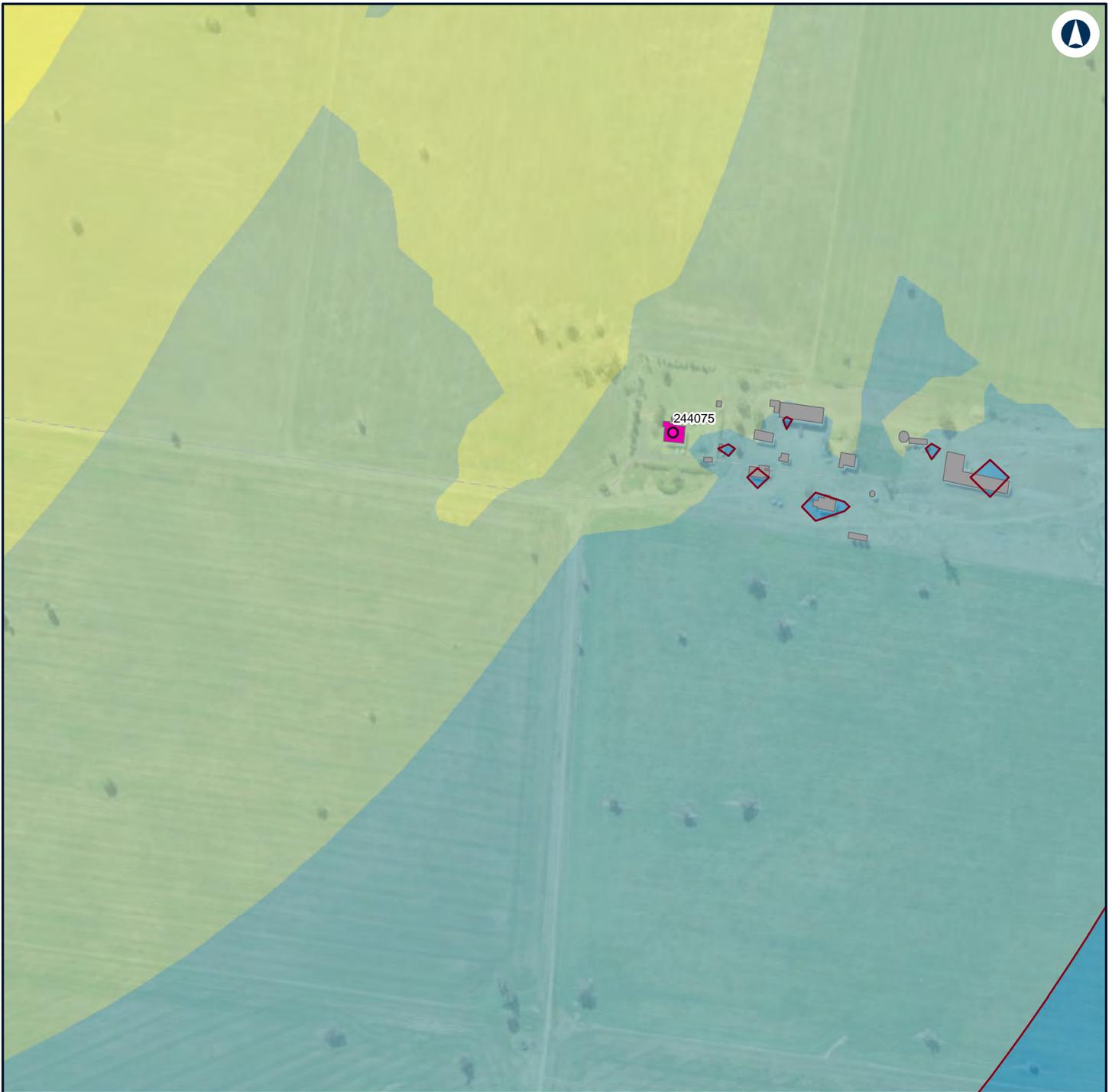
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LEGEND

Structure type		35 - 40
● Residential	■	40 - 45
■ Other	■	45 - 50
■ Residential	■	50 - 55

Noise level (dBA L

Aeq 15 minute)
 ■ 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



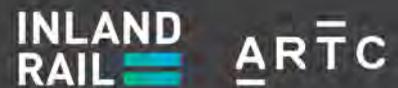
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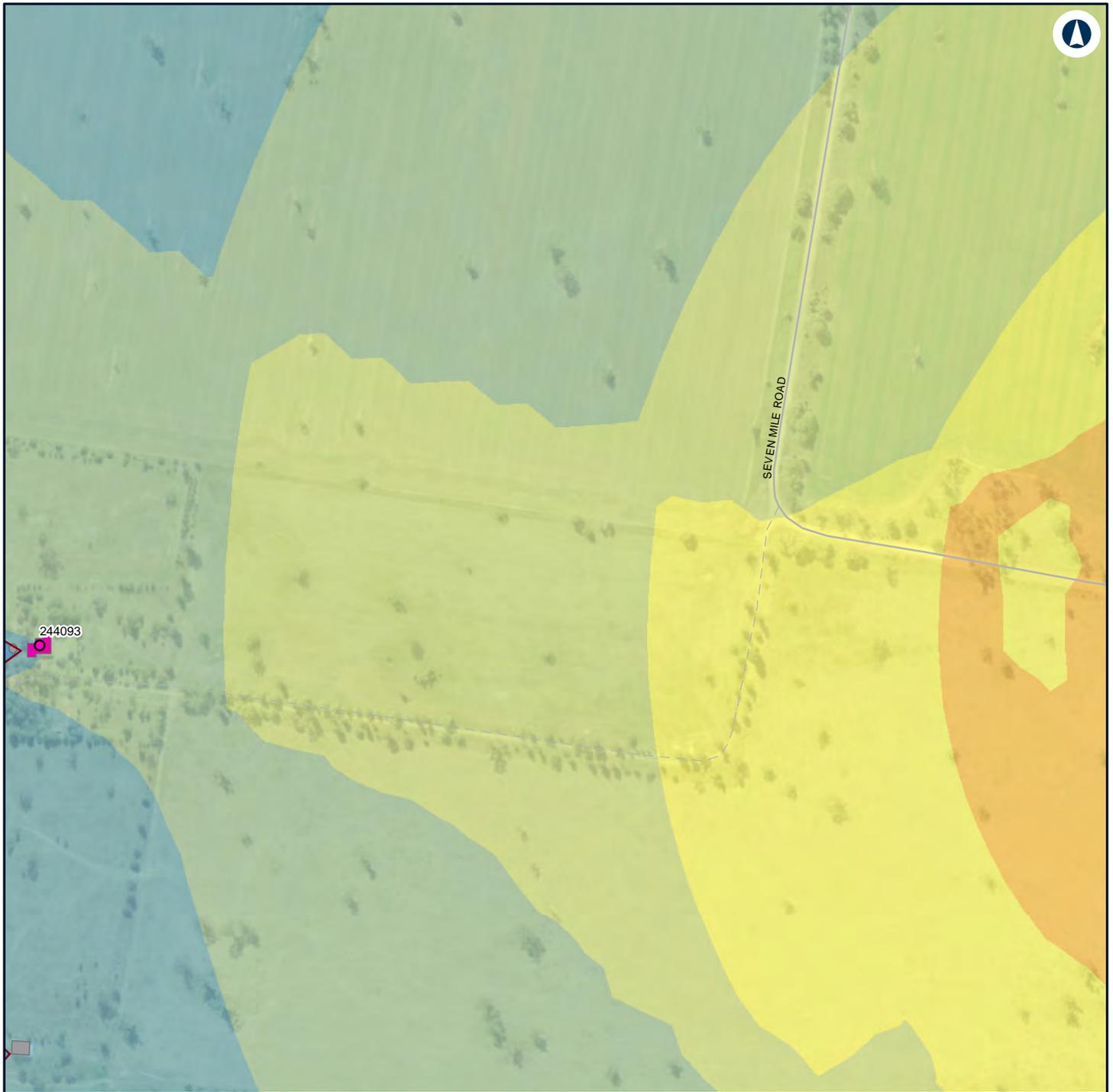
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LEGEND

Structure type	35 - 40
● Residential	40 - 45
■ Other	45 - 50
■ Residential	50 - 55
Noise level (dBA L Aeq 15 minute)	55 - 60
■	30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



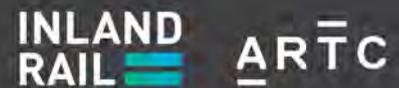
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LEGEND

- Structure type**
- 35 - 40
 - 40 - 45
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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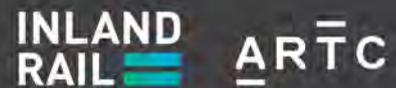
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LEGEND

Structure type

- Residential
- Other
- Residential

Noise level (dBA L

Aeq 15 minute)

- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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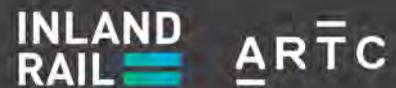
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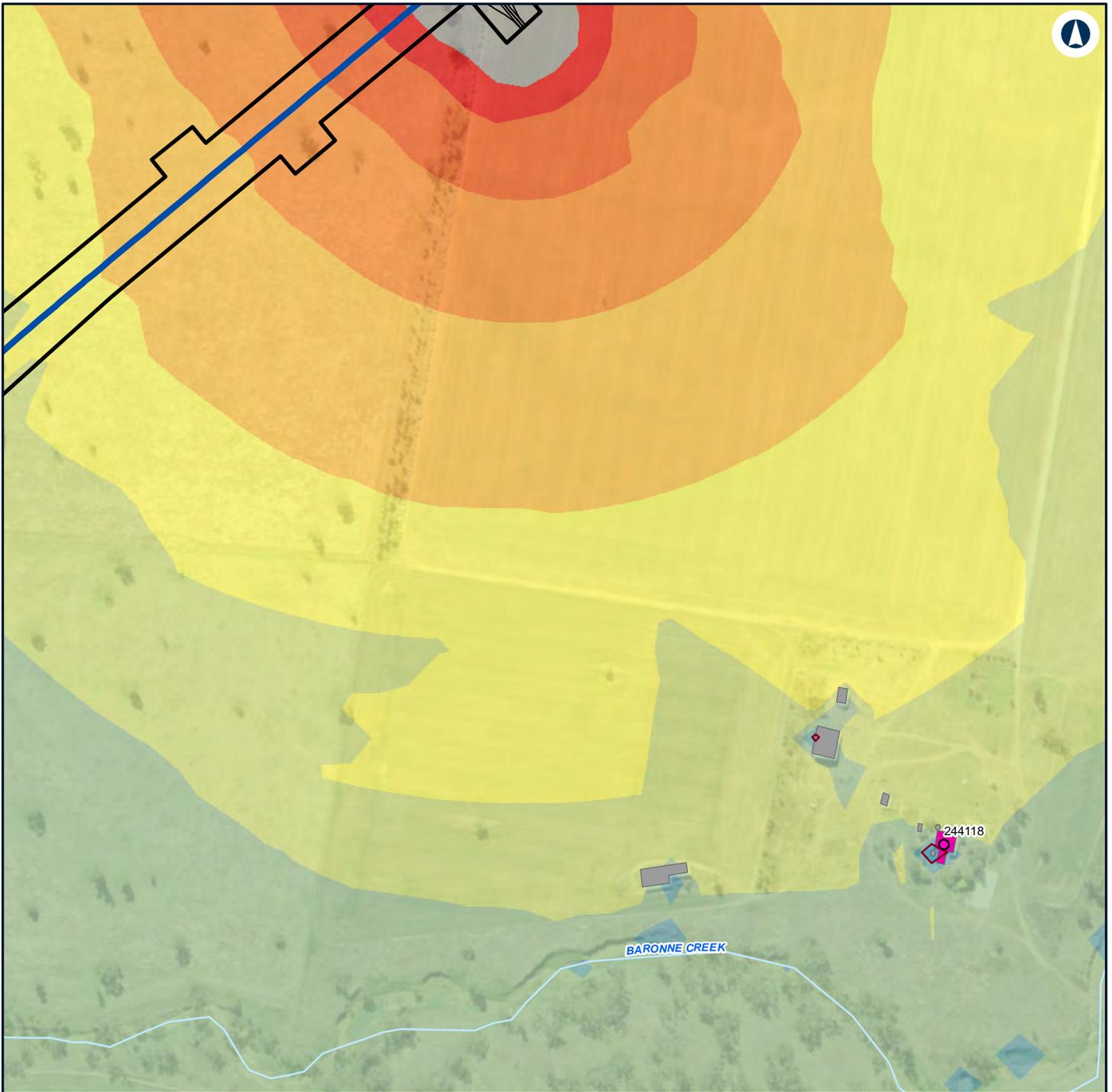
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LEGEND

Alignment	Residential	50 - 55
Road design string	Noise level (dBA L	55 - 60
Construction footprint	Aeq 15 minute)	60 - 65
Structure type	30 - 35	65 - 70
Residential	35 - 40	70 - 75
Other	40 - 45	> 75
	45 - 50	



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



Coordinate System: GDA 1994 MGA Zone 55

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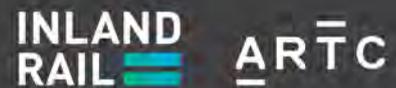
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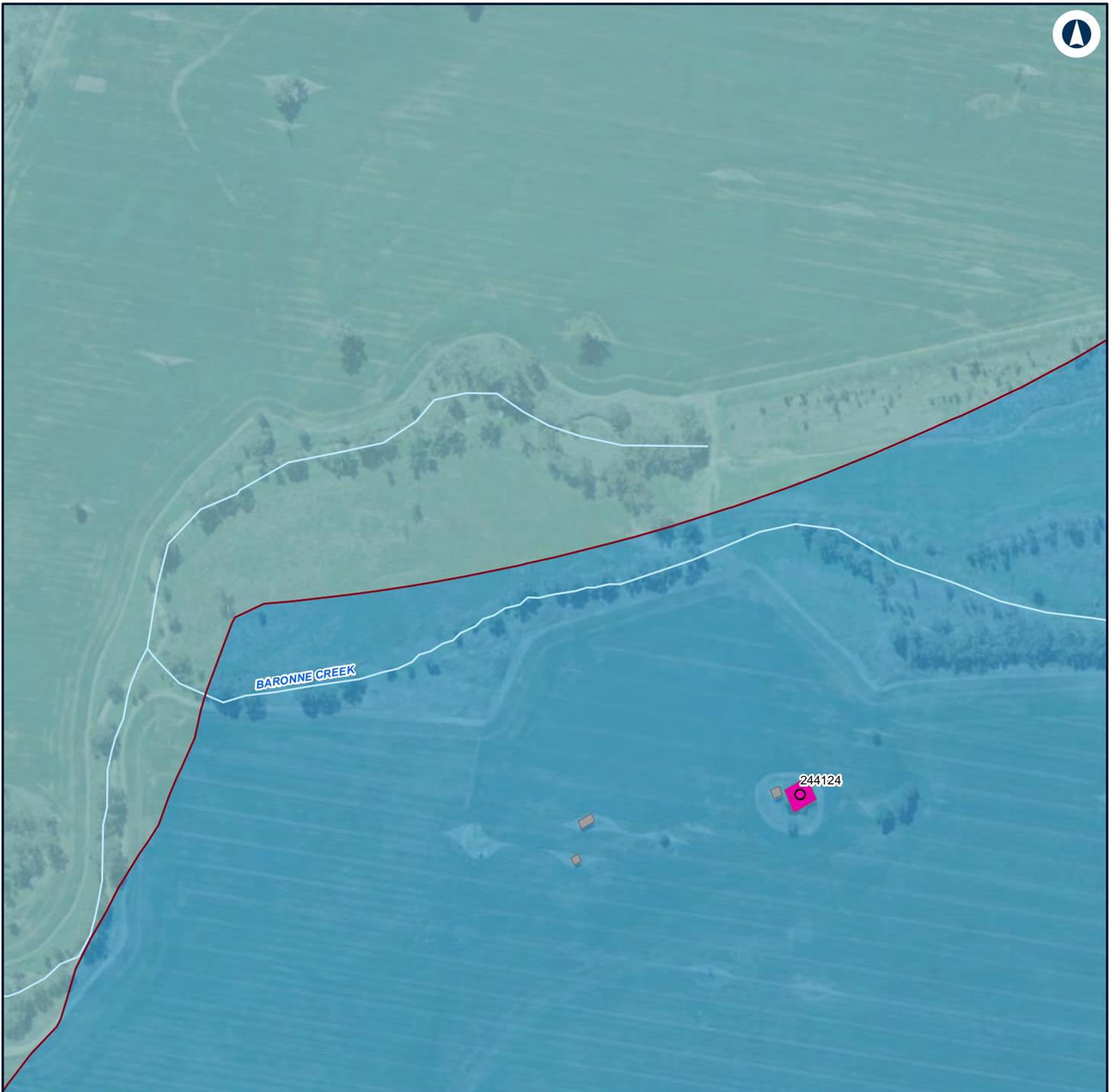
Author: GHD

Scale: 1:5,000

Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD



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LEGEND

- Structure type**
-  Residential
 -  Other
 -  Residential
- Noise level (dBA L
Aeq 15 minute)**
-  30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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Coordinate System: GDA 1994 MGA Zone 55

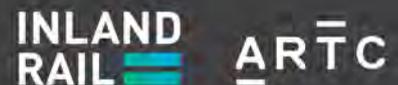
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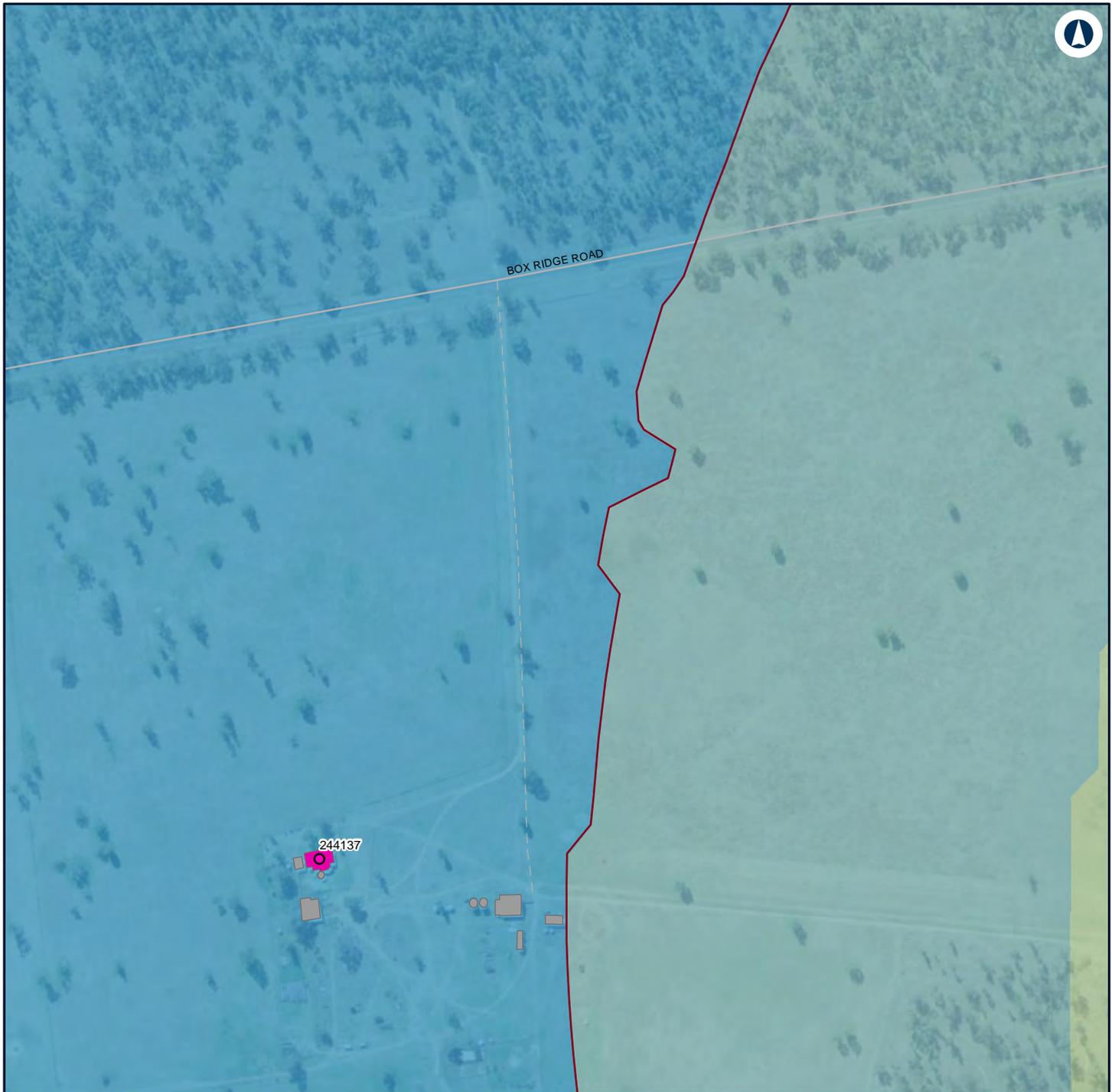
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LEGEND

- Structure type**
- 35 - 40
 - 40 - 45
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 169 of 304



Coordinate System: GDA 1994 MGA Zone 55

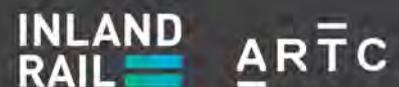
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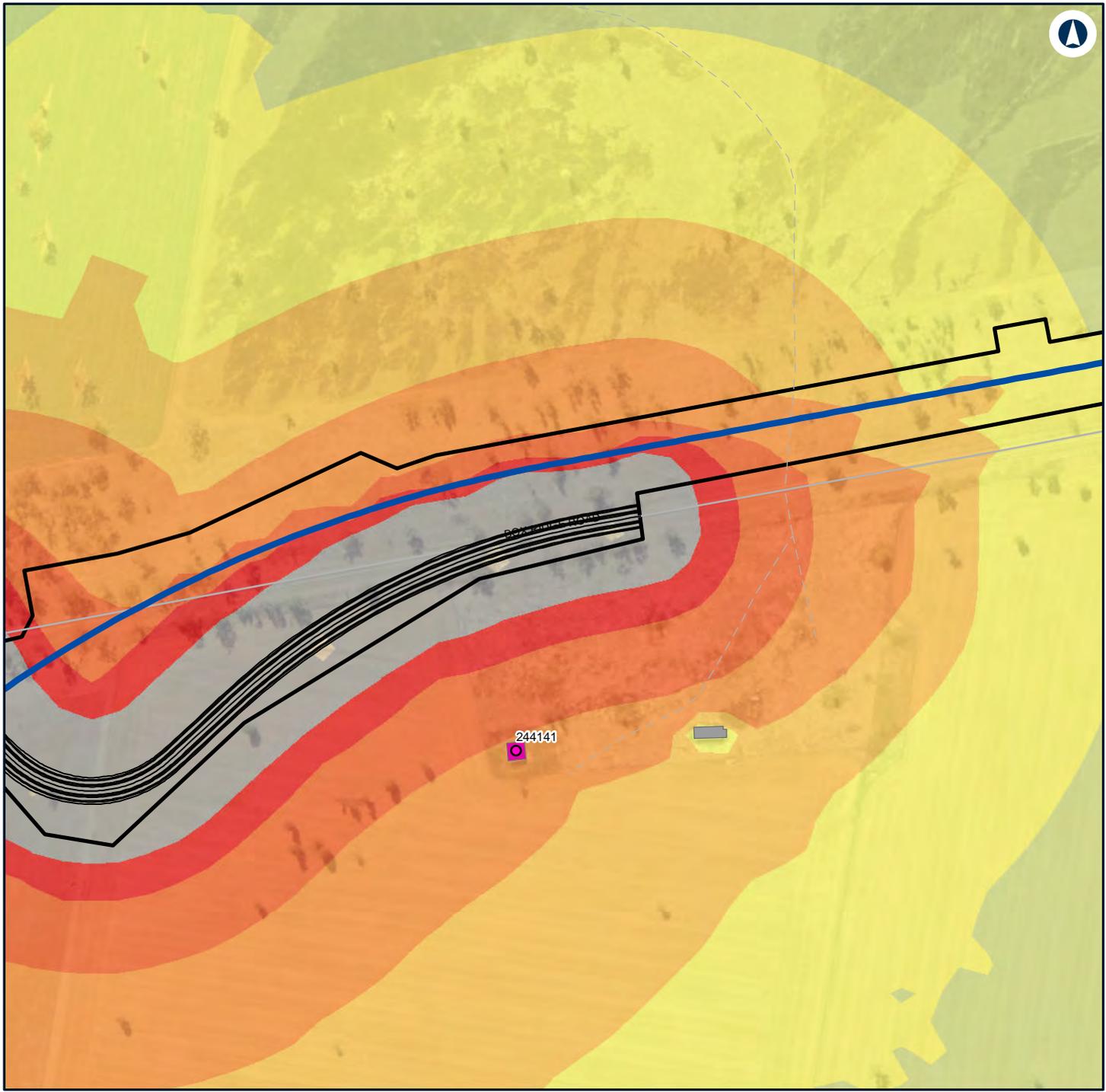
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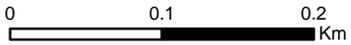
LEGEND

- Alignment
- Road design string
- Construction footprint
- Structure type**
- Residential
- Other
- Residential
- Noise level (dBA L Aeq 15 minute)**
- 45 - 50
- 50 - 55
- 55 - 60
- 60 - 65
- 65 - 70
- 70 - 75
- > 75



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



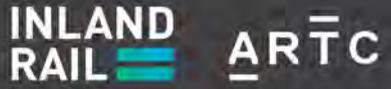
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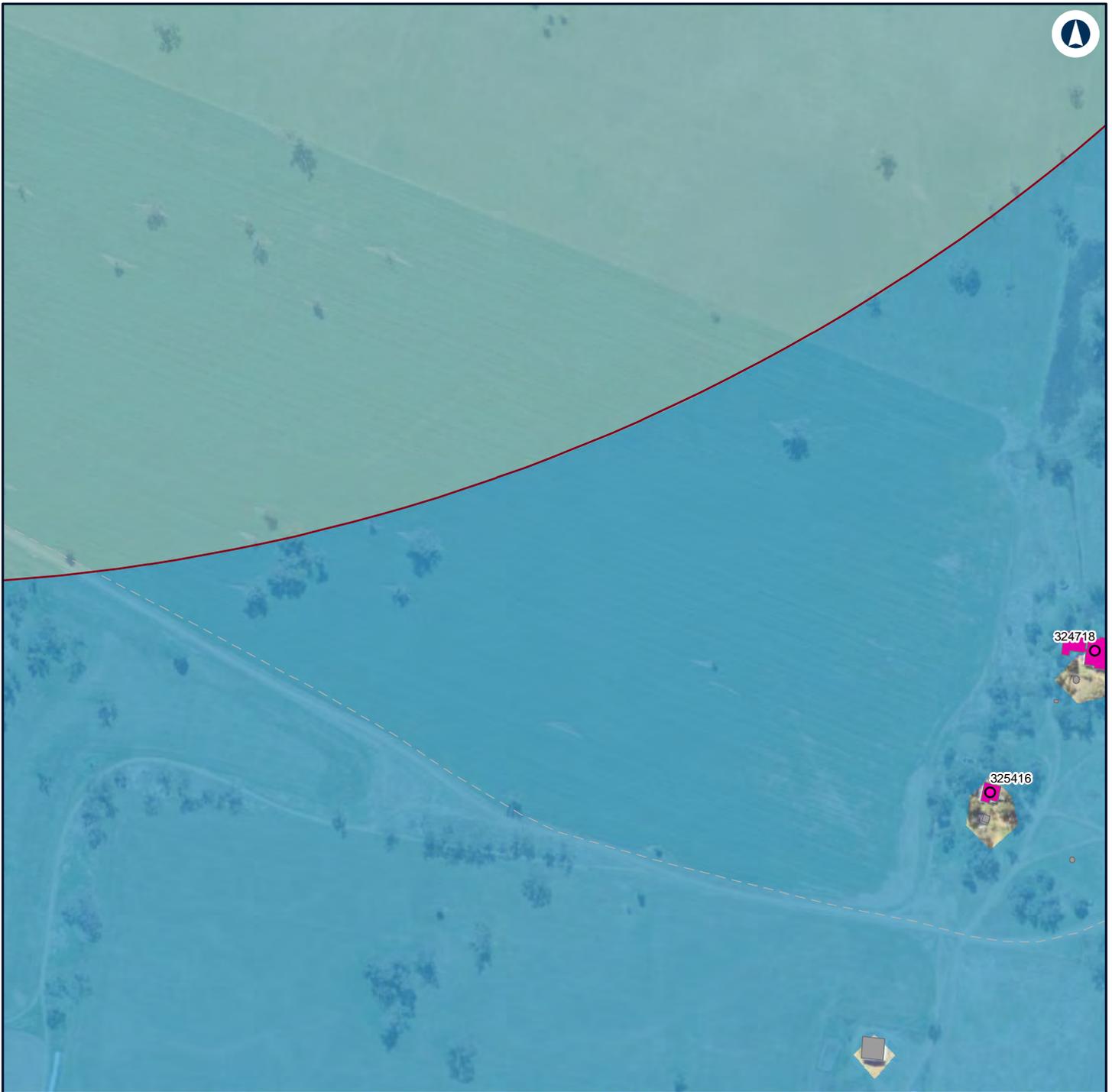
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LEGEND

- Structure type**
- 35 - 40
 - Residential
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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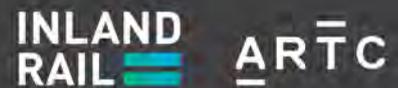
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LEGEND

- Structure type**
- 35 - 40
 - Residential
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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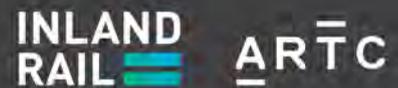


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LEGEND

Structure type

- Residential
- Other
- Residential

Noise level (dBA L

Aeq 15 minute)

- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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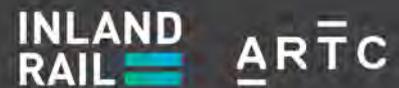
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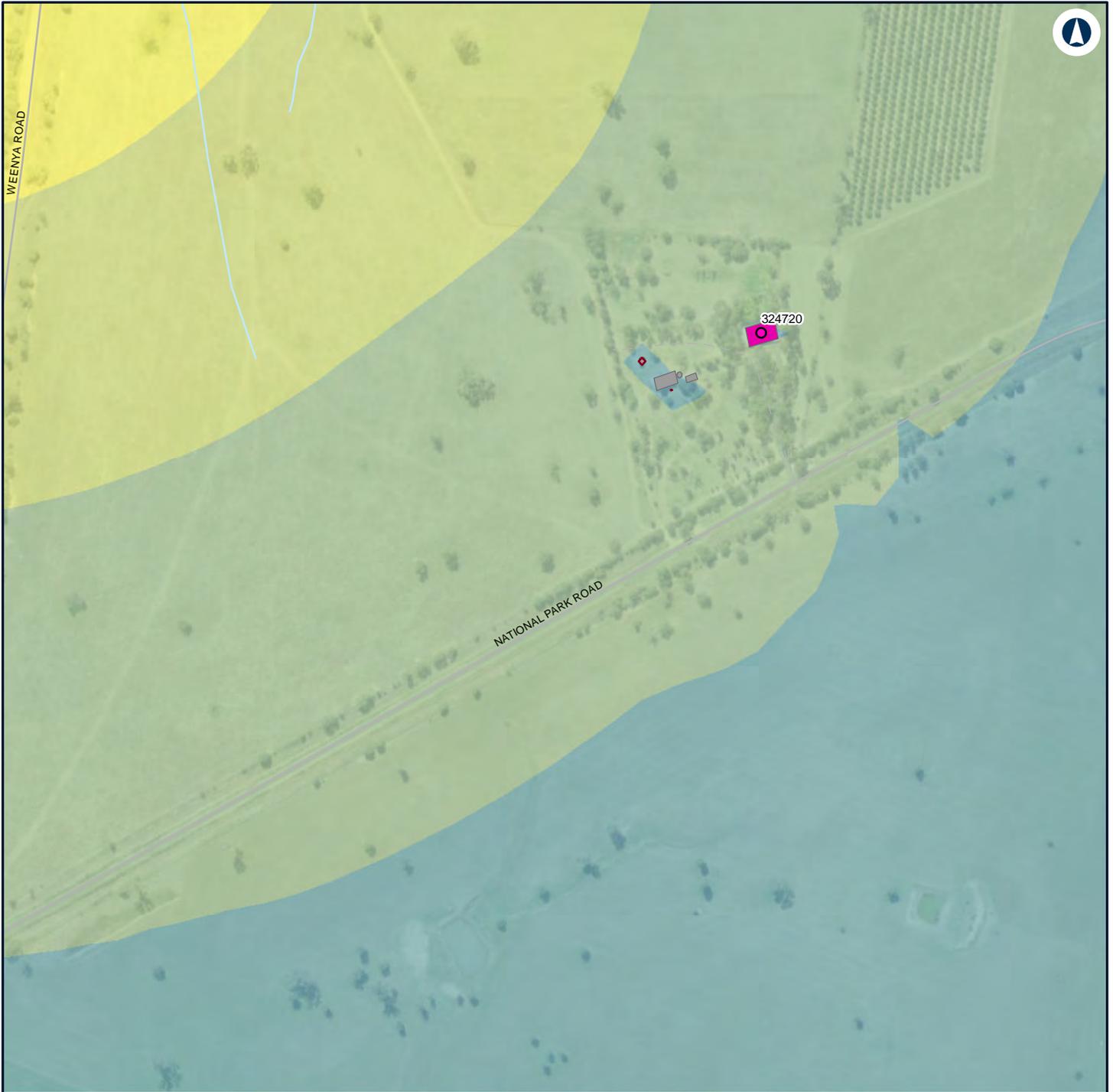
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LEGEND

Structure type		35 - 40
● Residential	■	40 - 45
■ Other	■	45 - 50
■ Residential	■	50 - 55

Noise level (dBA L

Aeq 15 minute)
 ■ 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



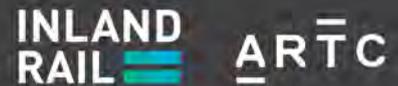
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LEGEND

Structure type

- Residential
- Other
- Residential

Noise level (dBA L

- Aeq 15 minute)
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

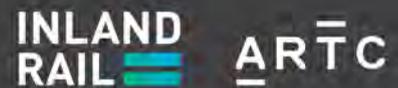


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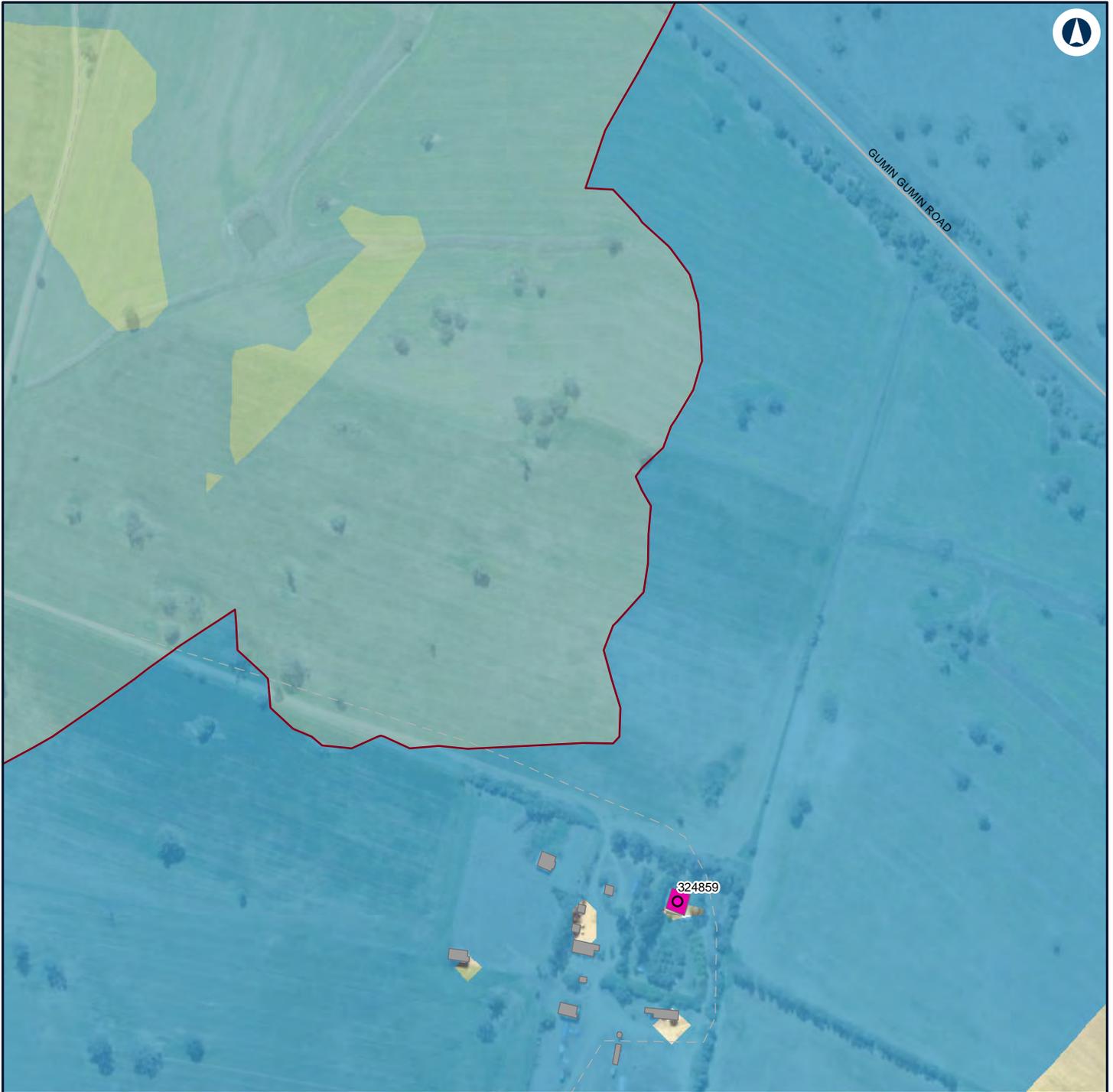
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LEGEND

- Structure type**
- 35 - 40
 - 40 - 45
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



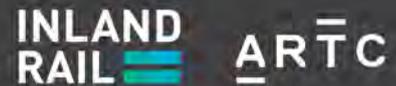
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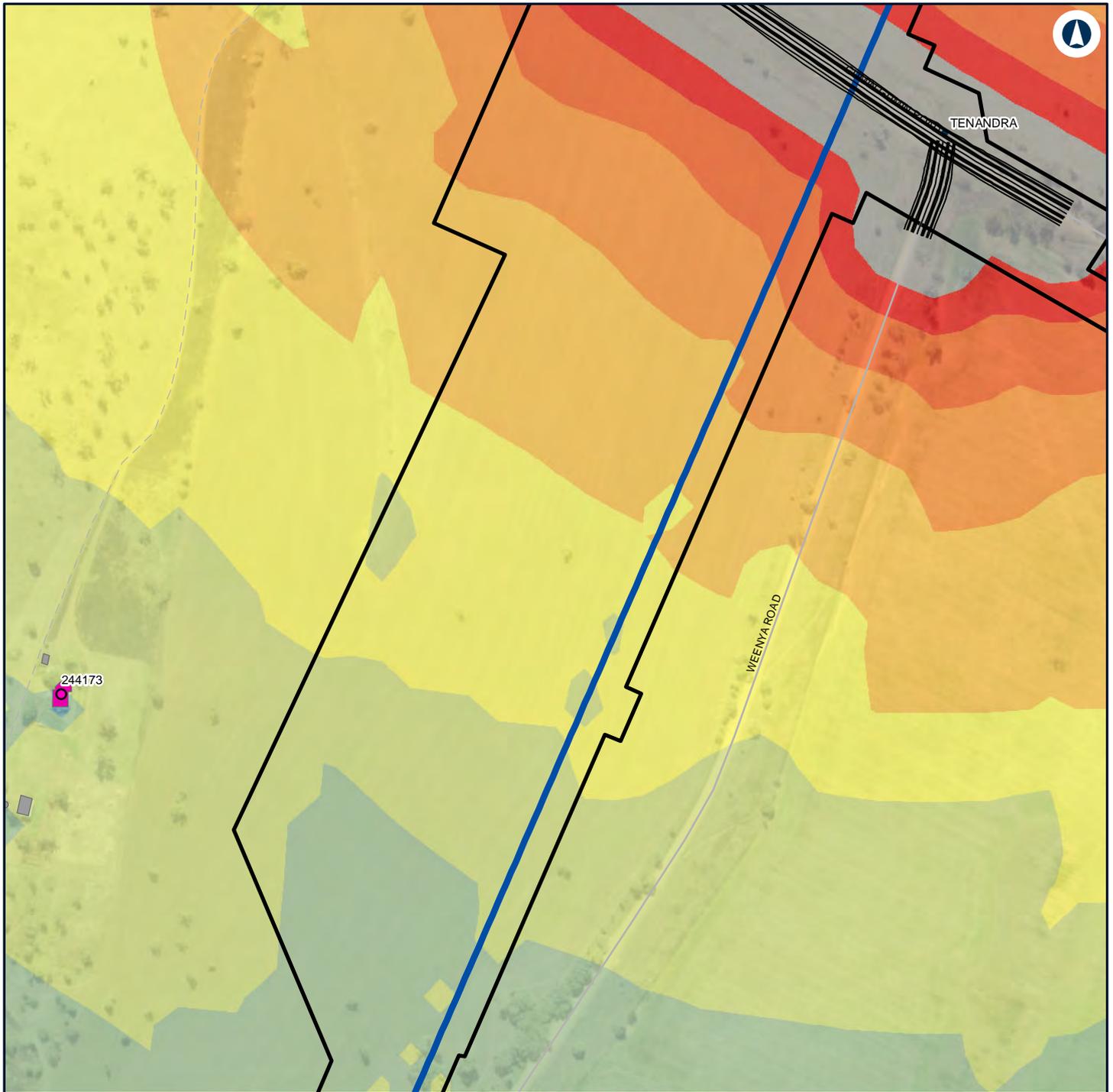
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LEGEND

Alignment	Residential	55 - 60
Road design string	Noise level (dBA L	60 - 65
Construction footprint	Aeq 15 minute)	65 - 70
Structure type	35 - 40	70 - 75
Residential	40 - 45	> 75
Other	45 - 50	
	50 - 55	



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



Coordinate System: GDA 1994 MGA Zone 55

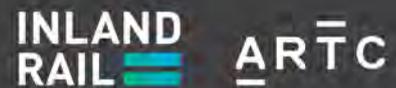
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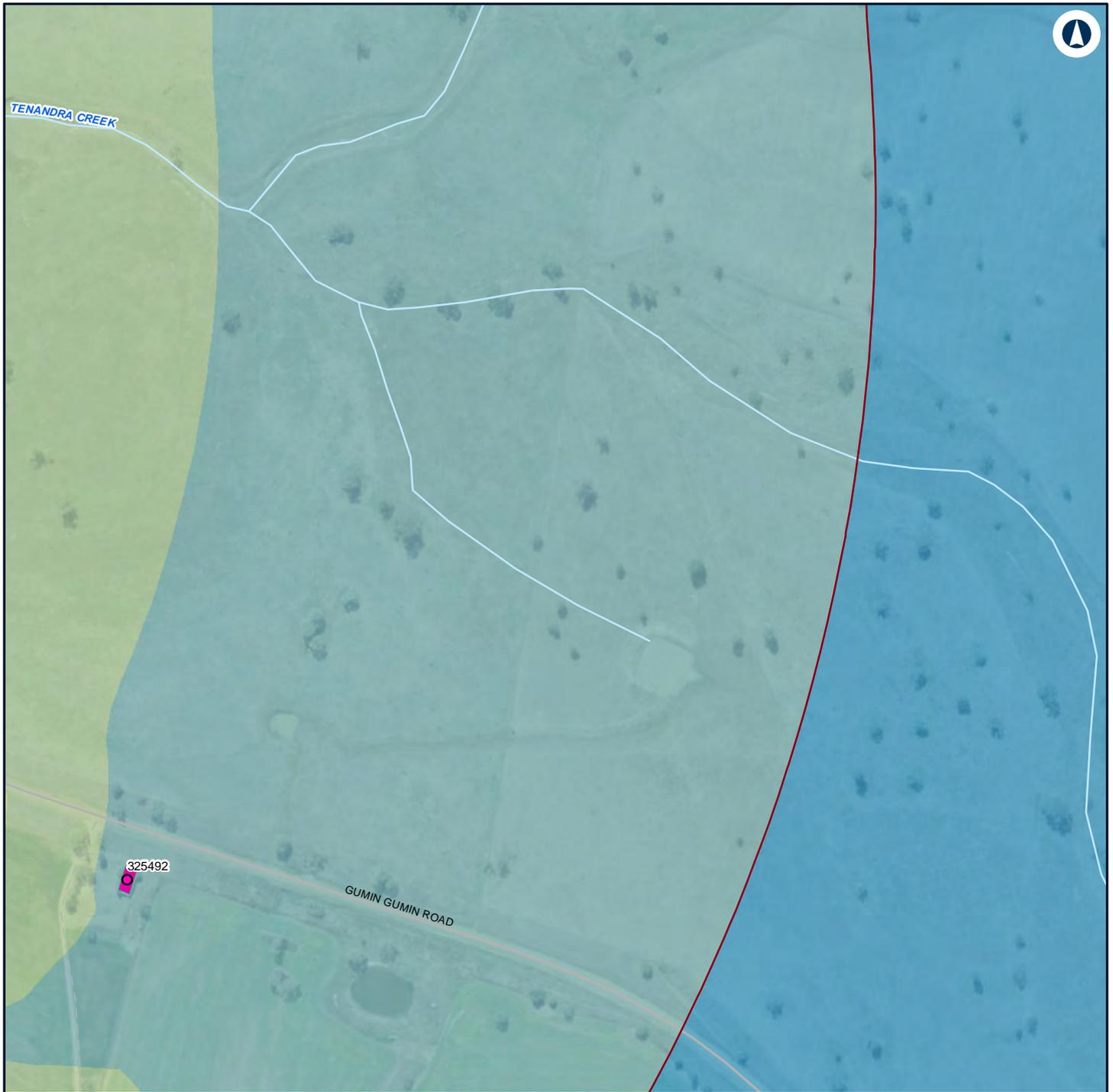
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LEGEND

- Structure type**
- Residential 40 - 45
 - Residential 45 - 50
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35
 - 35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

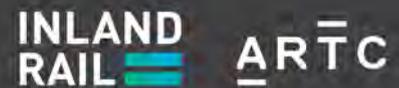


Coordinate System: GDA 1994 MGA Zone 55

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LEGEND

Structure type

- Residential
- Other
- Residential

Noise level (dBA L

Aeq 15 minute)

- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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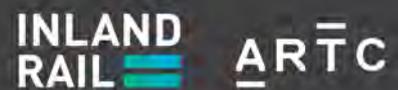
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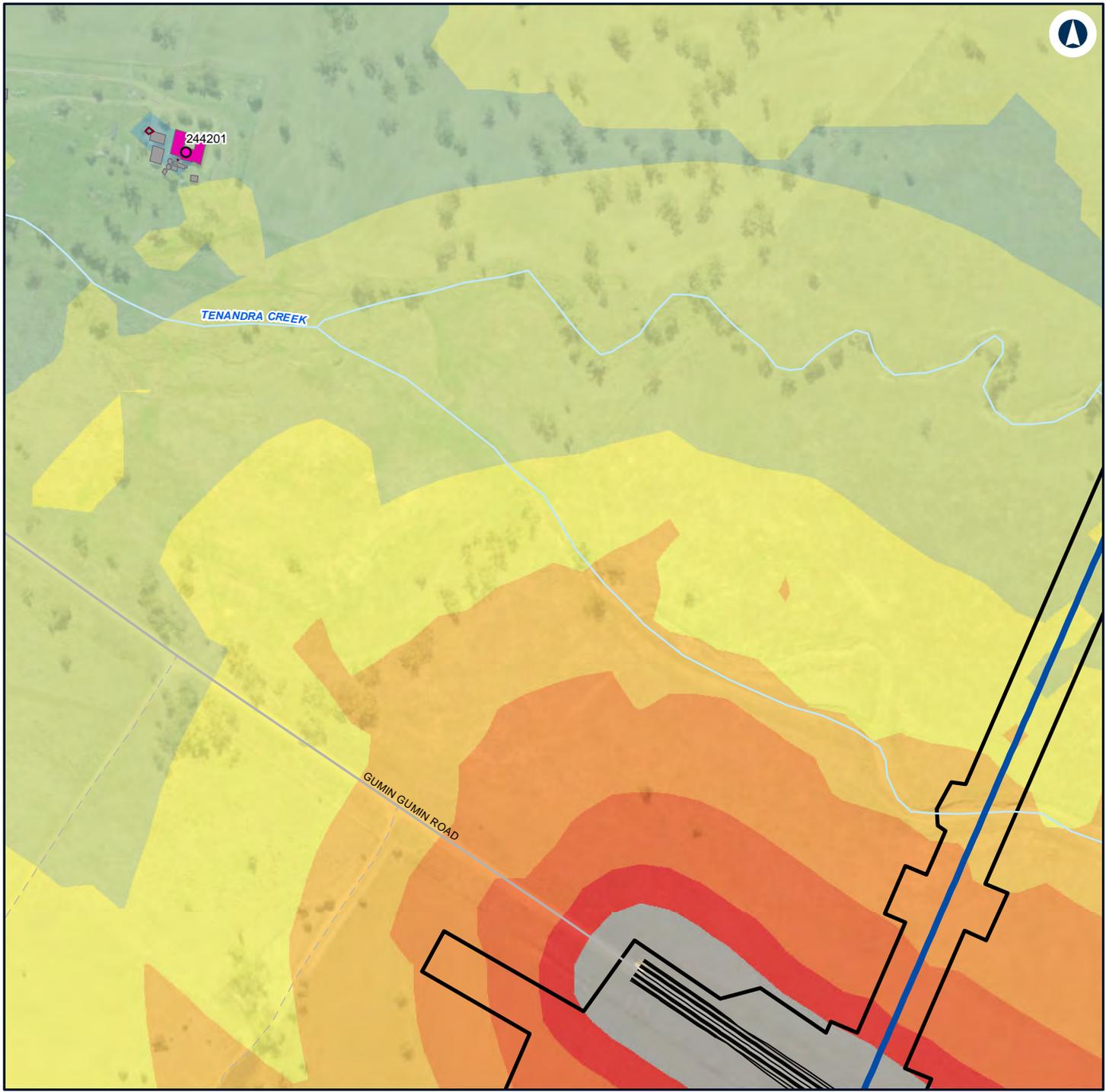
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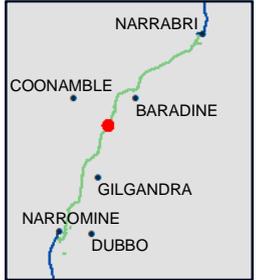


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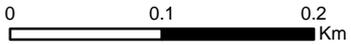
LEGEND

- Alignment
- Road design string
- Construction footprint
- Structure type**
- Residential
- Other
- Residential
- Noise level (dBA L Aeq 15 minute)**
- 30 - 35
- 35 - 40
- 40 - 45
- 45 - 50
- 50 - 55
- 55 - 60
- 60 - 65
- 65 - 70
- 70 - 75
- > 75



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

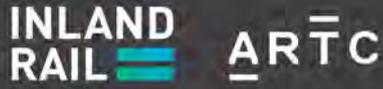


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LEGEND

- Structure type**
- Residential 40 - 45
 - 45 - 50
 - Other 50 - 55
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 35 - 40



0 0.1 0.2 Km

Coordinate System: GDA 1994 MGA Zone 55

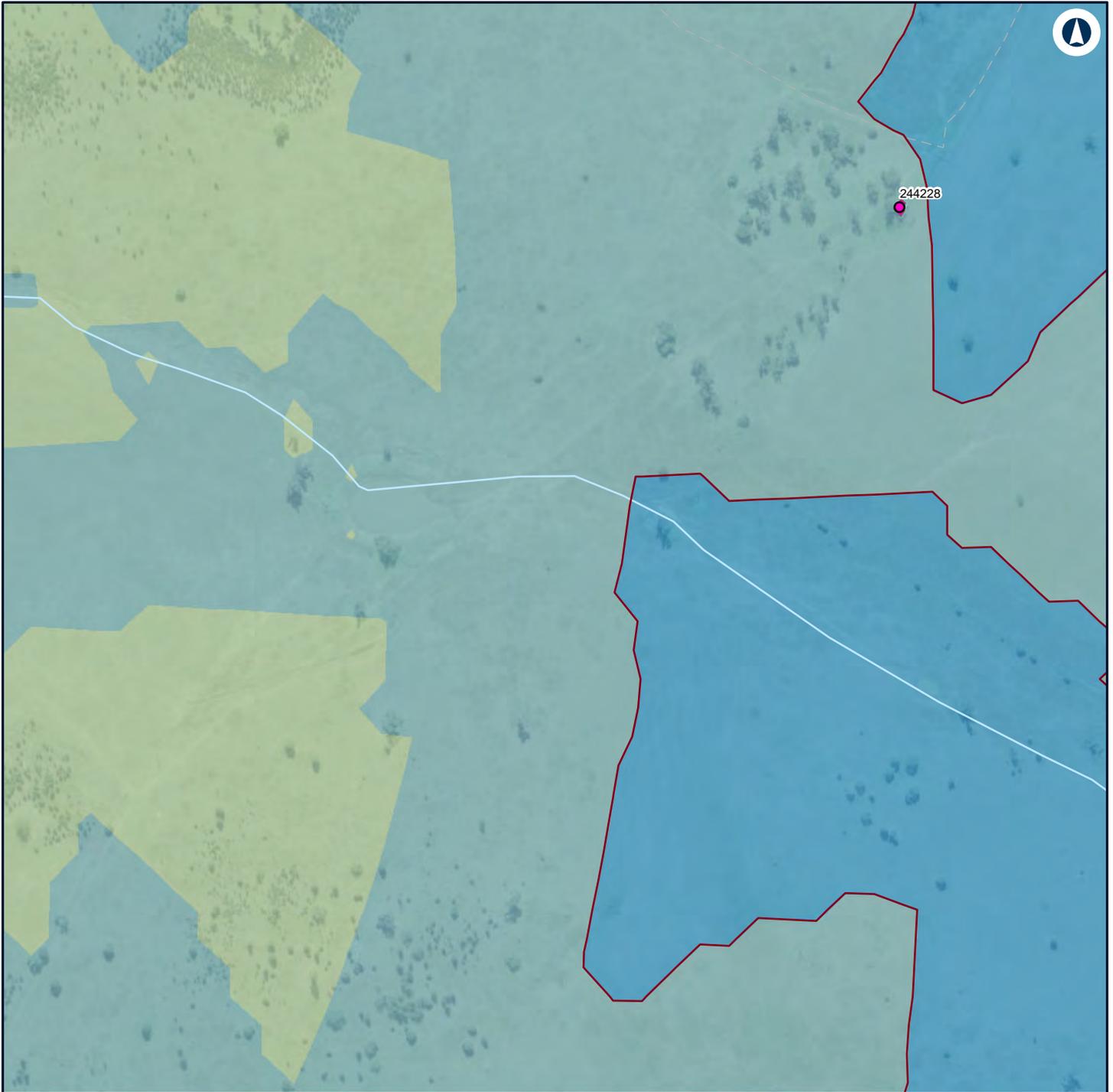
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LEGEND

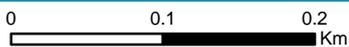
- Structure type**
- 40 - 45
 - Residential
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35
 - 35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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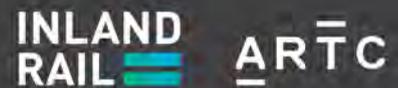


Coordinate System: GDA 1994 MGA Zone 55

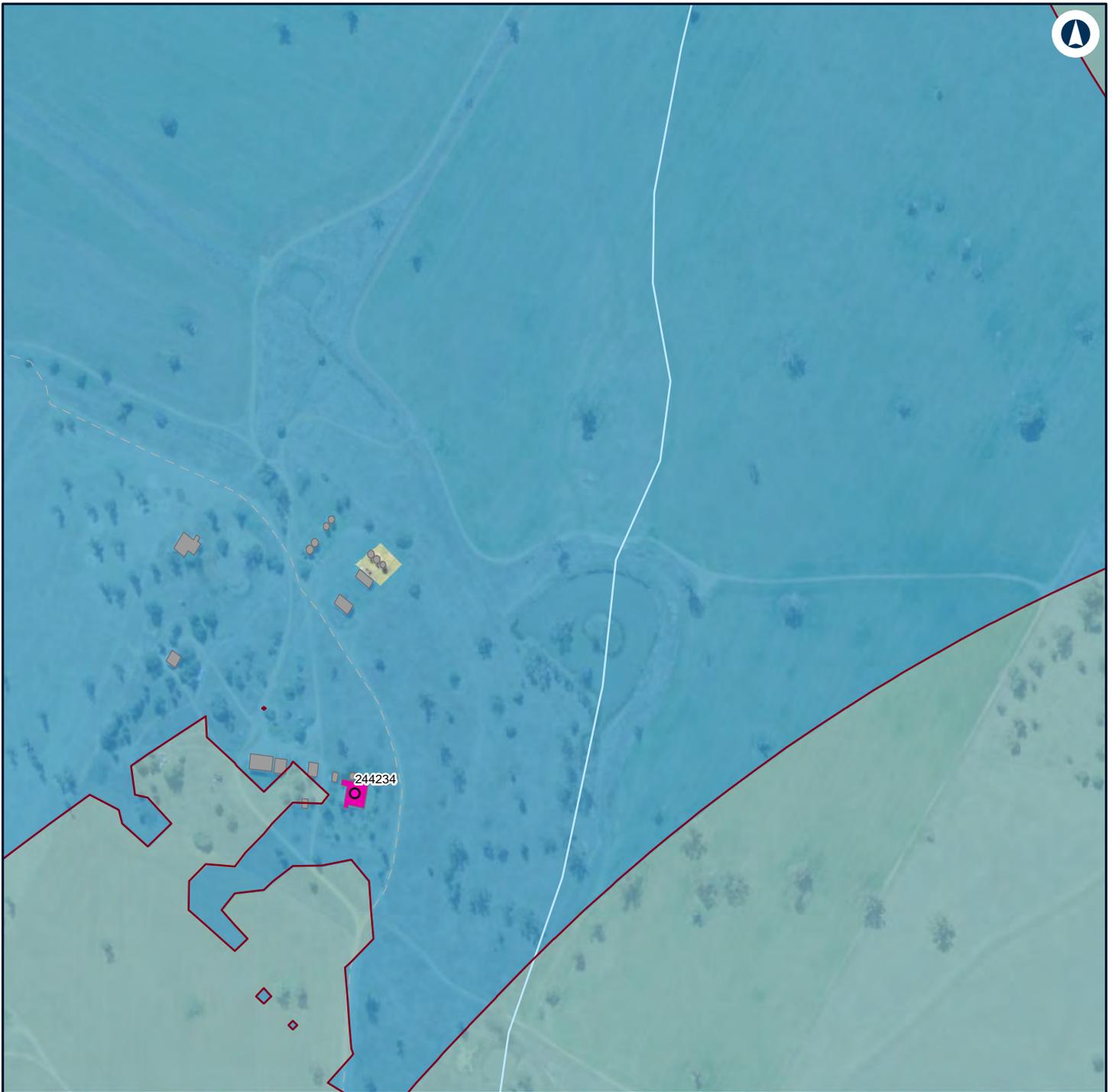
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LEGEND

- Structure type**
- Residential
- Other
- Residential
- Noise level (dBA L**
Aeq 15 minute)
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



Coordinate System: GDA 1994 MGA Zone 55

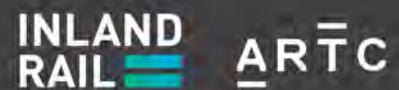
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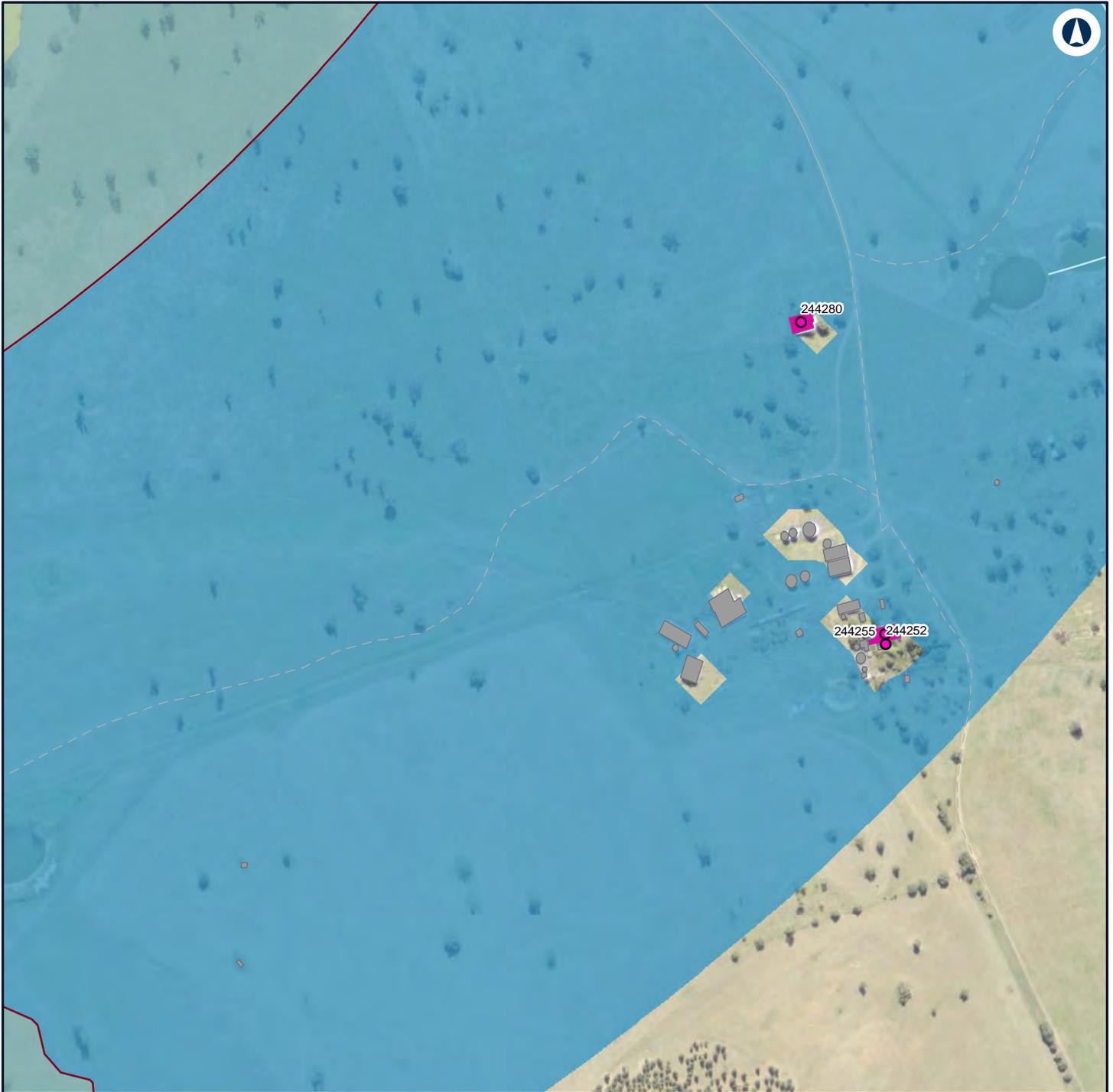
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Author: GHD

Paper: A4
Scale: 1:5,000

Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD



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LEGEND

- Structure type**
- 35 - 40
 - 40 - 45
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



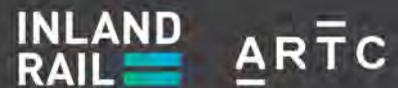
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LEGEND

Structure type

-  Residential
-  Residential

Noise level (dBA L

Aeq 15 minute)

-  30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



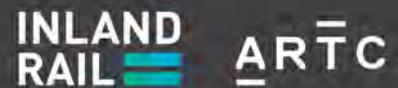
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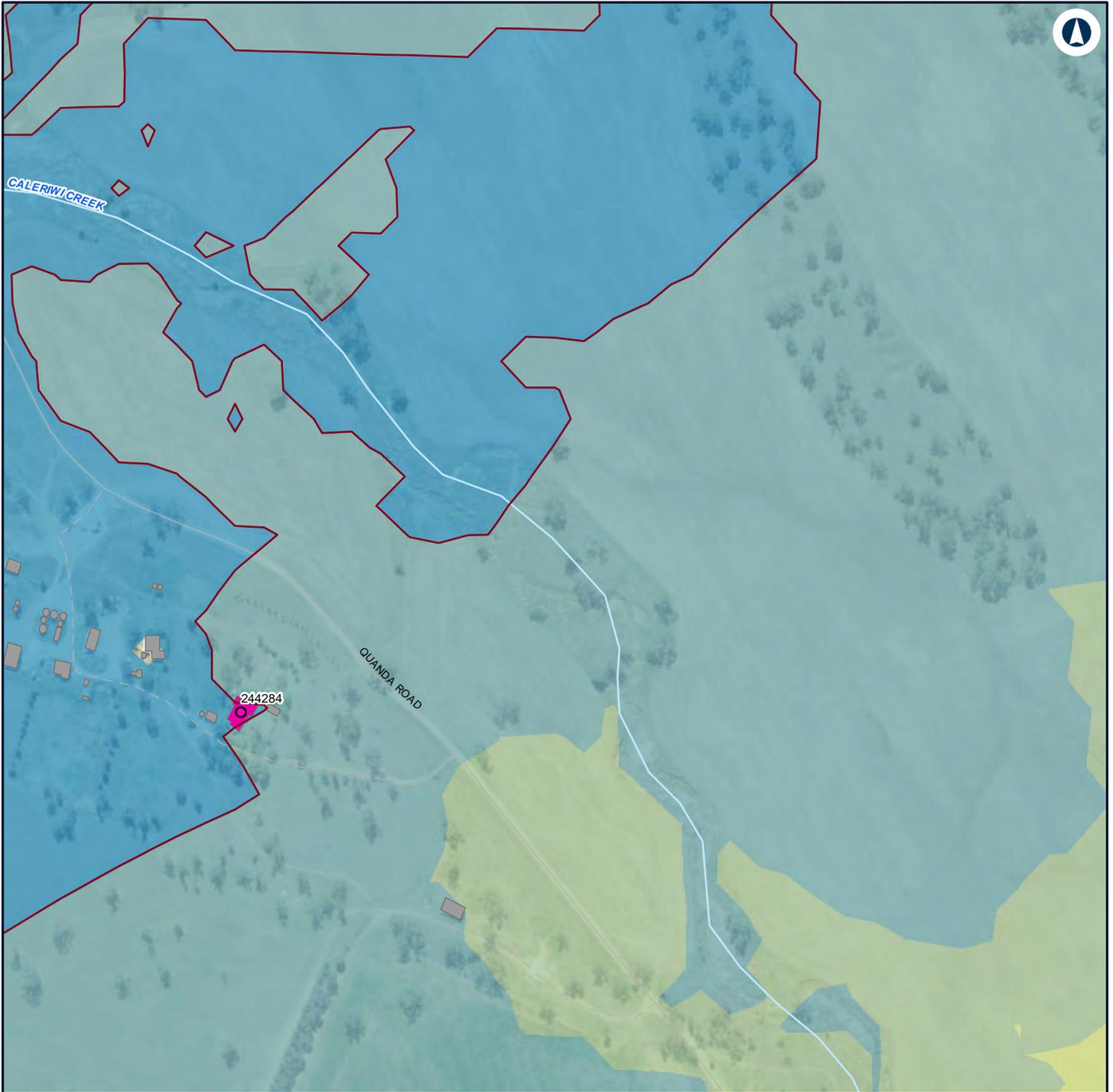
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LEGEND

- Structure type**
- 35 - 40
 - 40 - 45
 - Other
 - 45 - 50
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

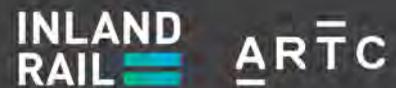


Coordinate System: GDA 1994 MGA Zone 55

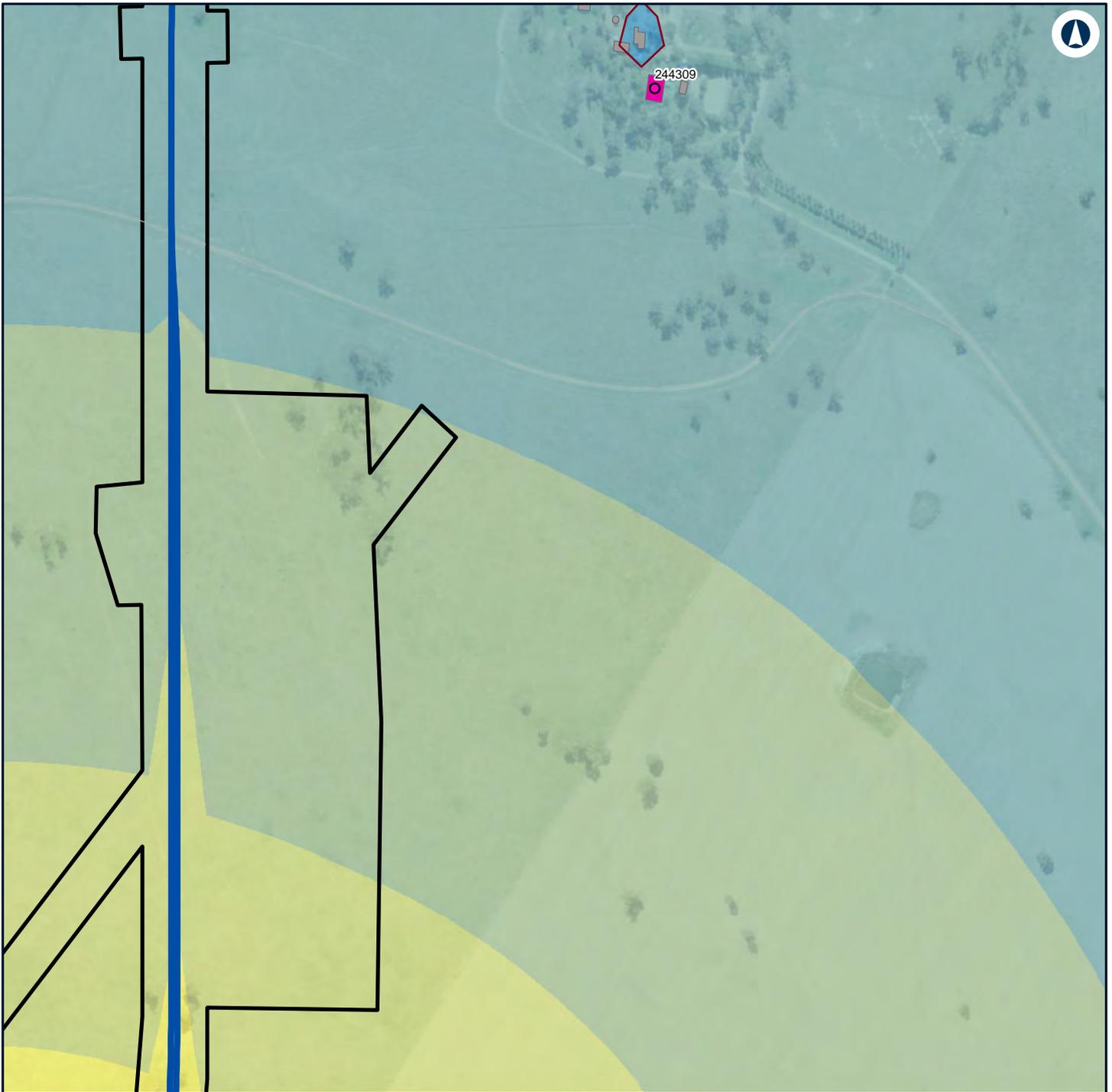
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LEGEND

- Alignment
 - Construction footprint
 - Structure type**
 - Residential
 - Other
 - Residential
- | Noise level (dBA L
Aeq 15 minute) | |
|--------------------------------------|---------|
| | 30 - 35 |
| | 35 - 40 |
| | 40 - 45 |
| | 45 - 50 |
| | 50 - 55 |



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

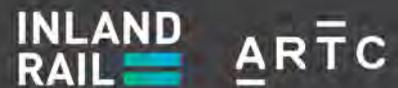


Coordinate System: GDA 1994 MGA Zone 55

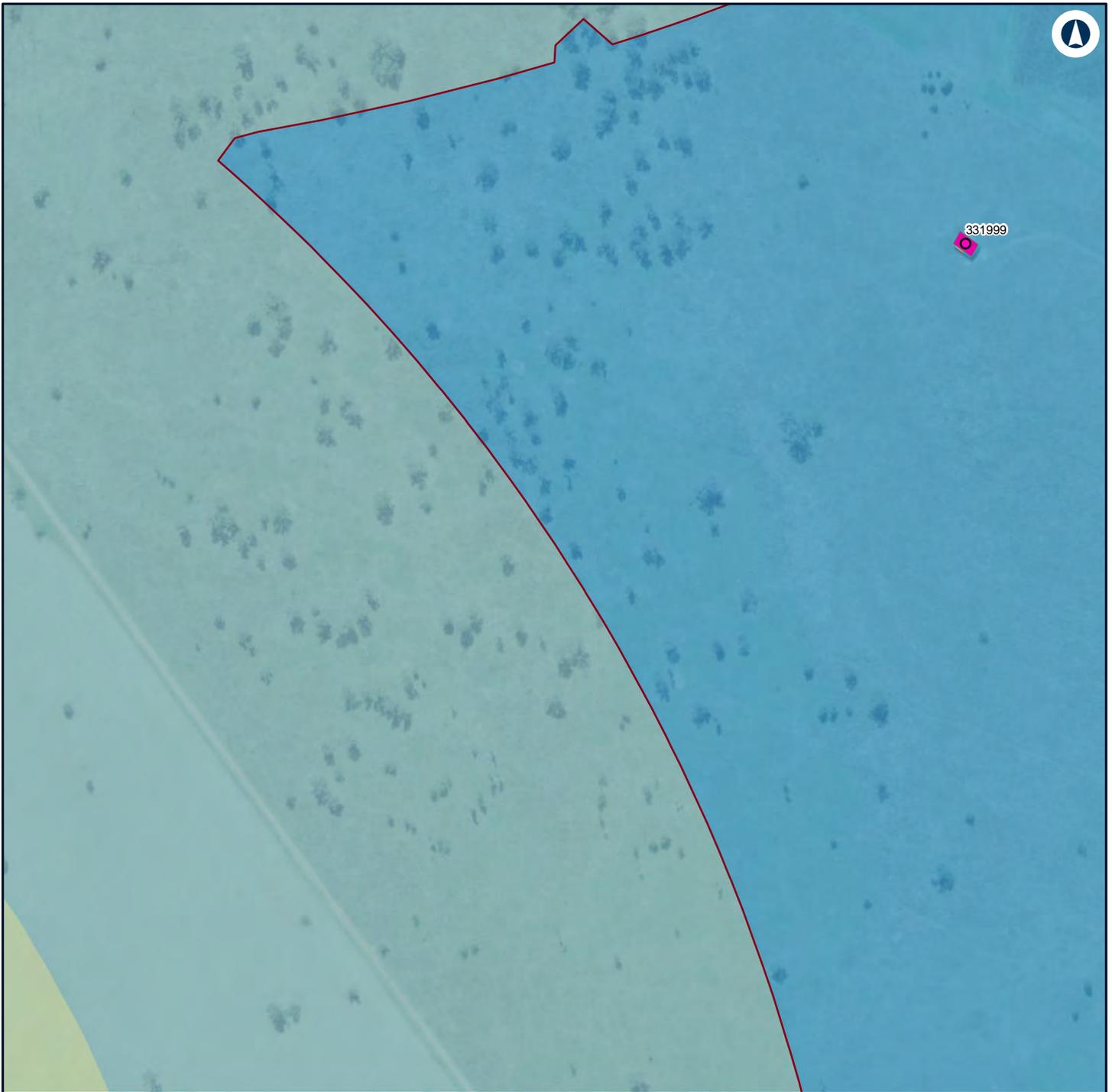
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LEGEND

- Structure type**
- 40 - 45
 - Residential
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35
 - 35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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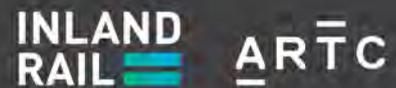
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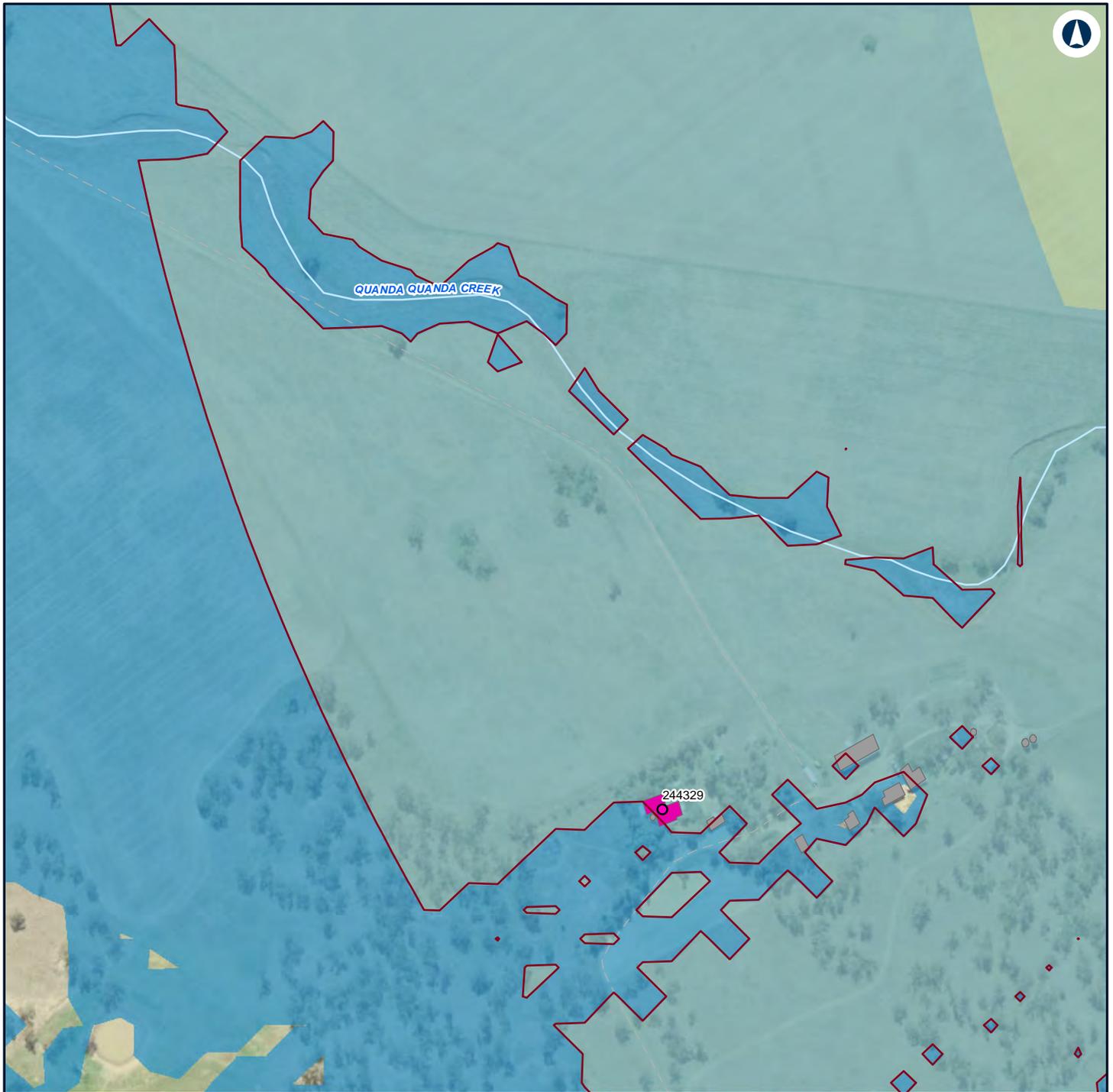
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LEGEND

- Structure type**
- 35 - 40
 - 40 - 45
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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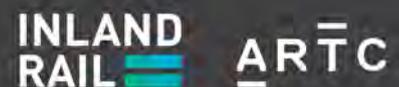
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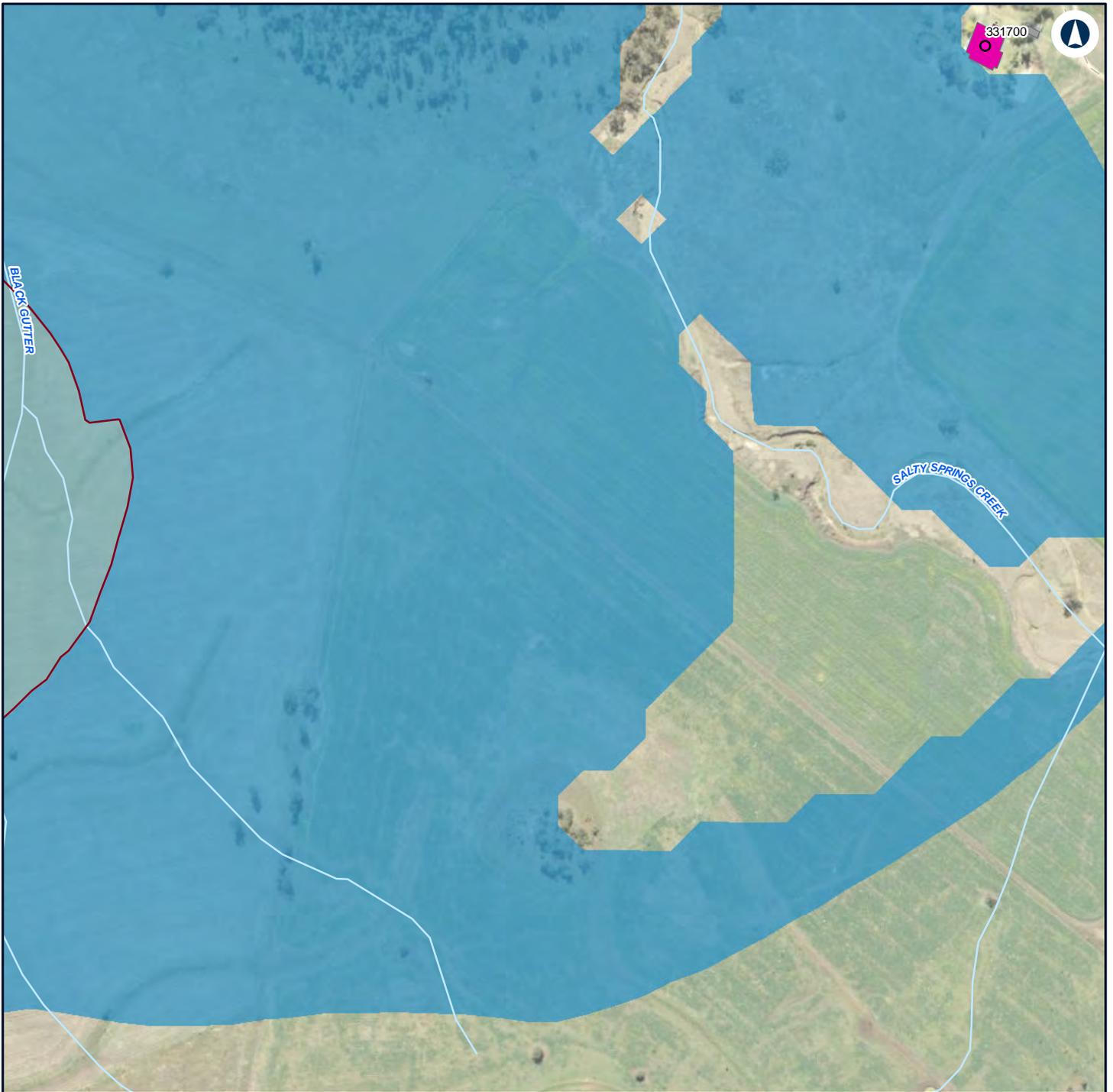
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LEGEND

- Structure type**
- 35 - 40
 - Residential
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 190 of 304



Coordinate System: GDA 1994 MGA Zone 55

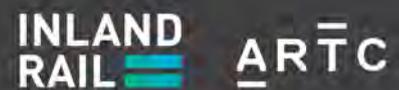
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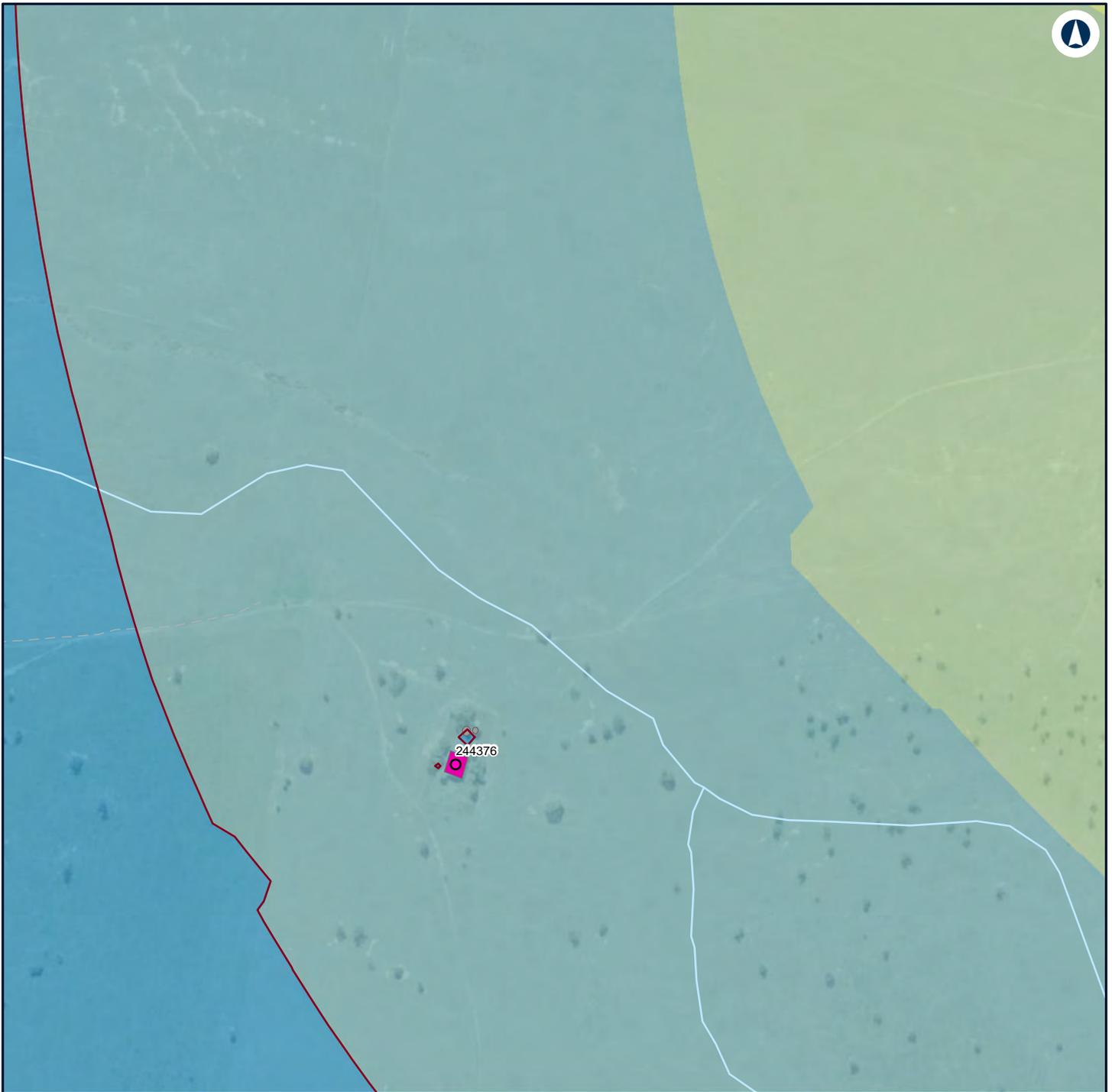
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LEGEND

Structure type		35 - 40
● Residential		40 - 45
■ Other		45 - 50
■ Residential		
Noise level (dBA L Aeq 15 minute)		
■ 30 - 35		



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



Coordinate System: GDA 1994 MGA Zone 55

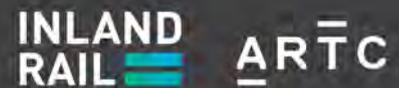
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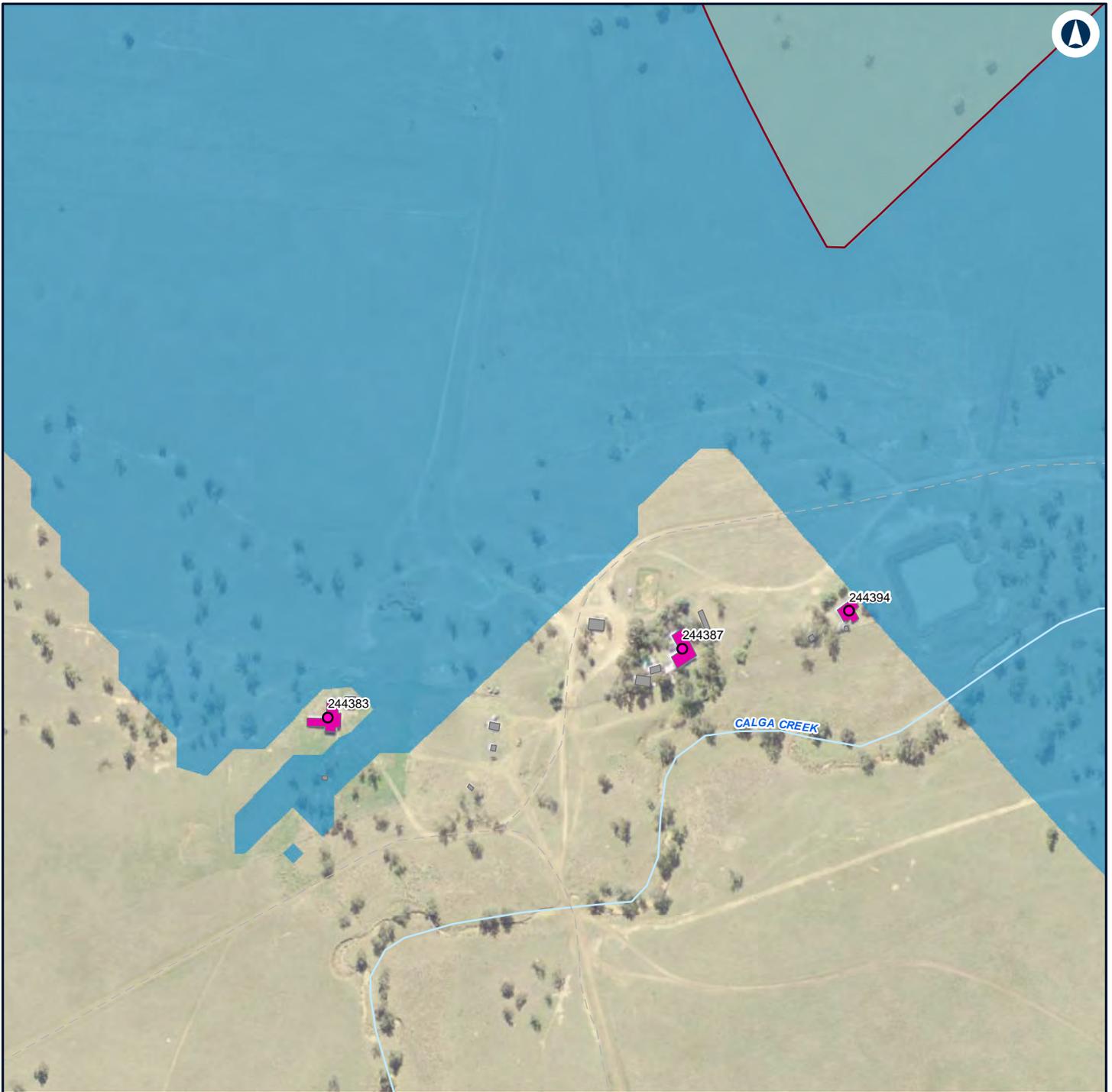
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD



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LEGEND

- Structure type**
- 35 - 40
 - Residential
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



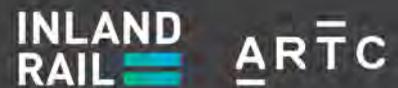
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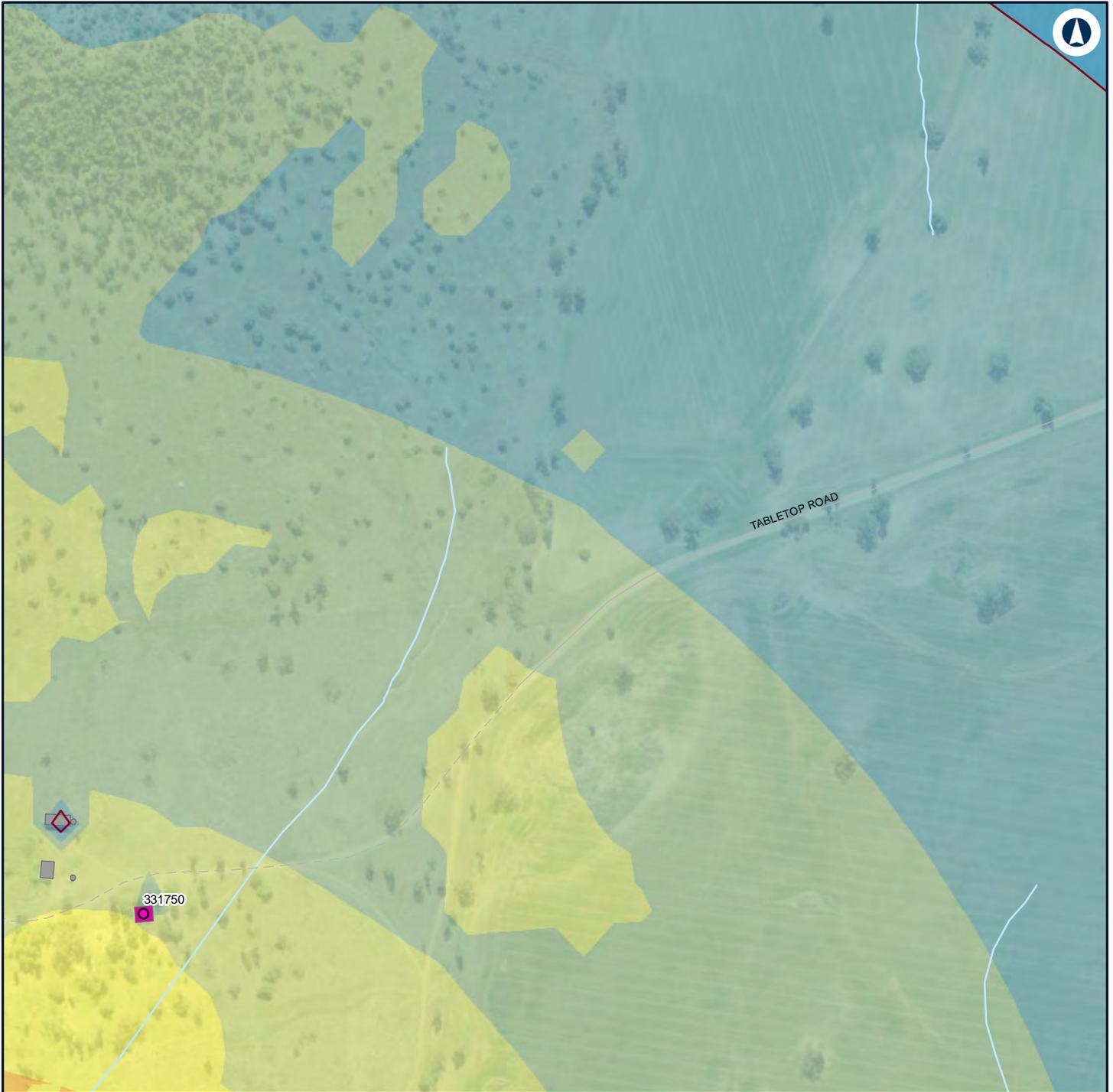
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LEGEND

Structure type	35 - 40
● Residential	40 - 45
■ Other	45 - 50
■ Residential	50 - 55
Noise level (dBA L	55 - 60
Aeq 15 minute)	
■	30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenarion ROAD03 - Road Earthworks

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Coordinate System: GDA 1994 MGA Zone 55

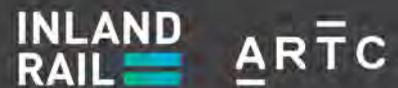
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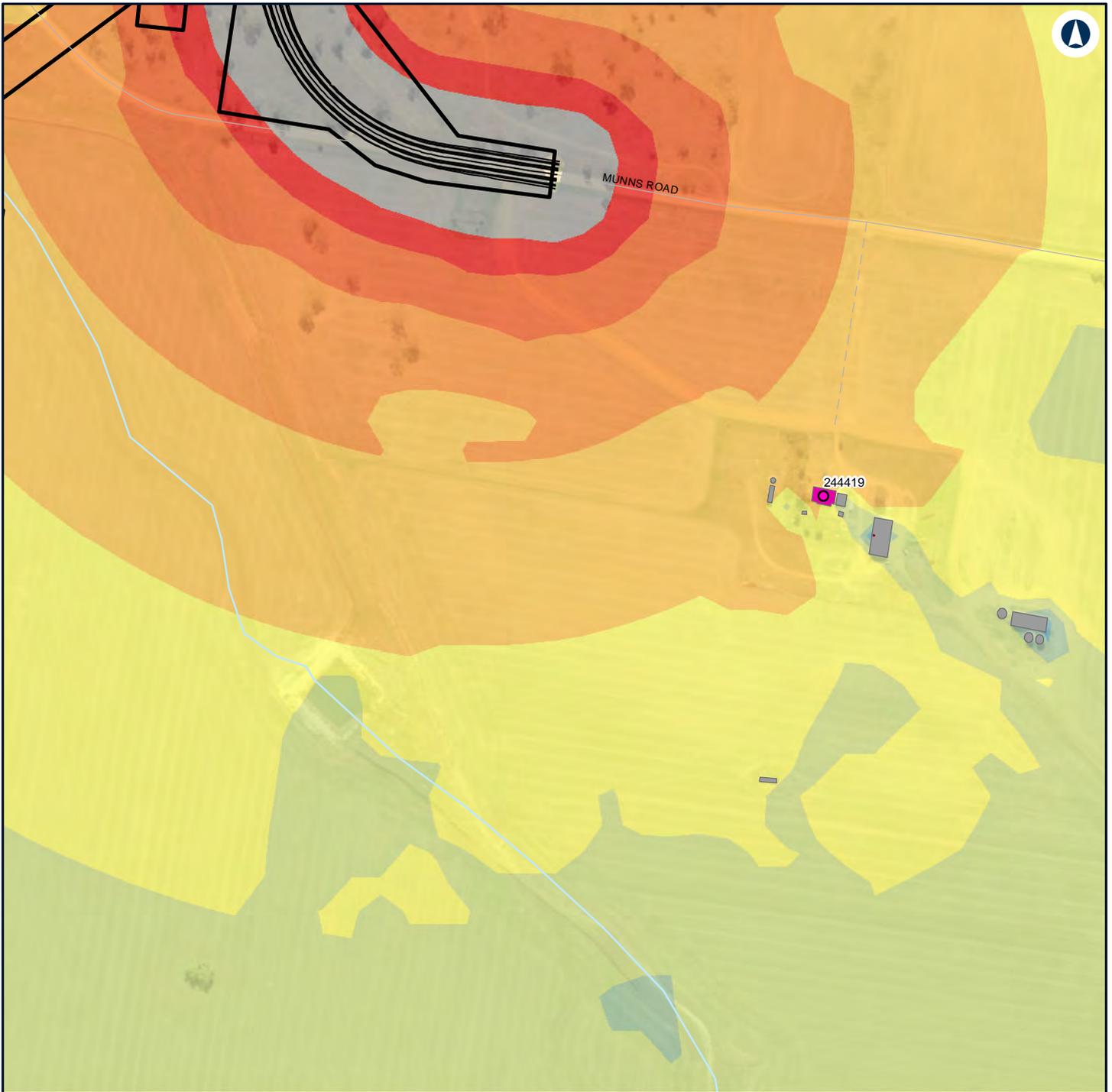
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD



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LEGEND

- Road design string
 - ▭ Construction footprint
 - Structure type**
 - Residential (pink)
 - ▭ Other (grey)
 - Residential (pink)
- | | | | | | | | | | |
|--|---------|---------|---------|---------|---------|---------|---------|---------|------|
| Noise level (dBA L Aeq 15 minute) | 35 - 40 | 40 - 45 | 45 - 50 | 50 - 55 | 55 - 60 | 60 - 65 | 65 - 70 | 70 - 75 | > 75 |
|--|---------|---------|---------|---------|---------|---------|---------|---------|------|



0 0.1 0.2 Km

Coordinate System: GDA 1994 MGA Zone 55

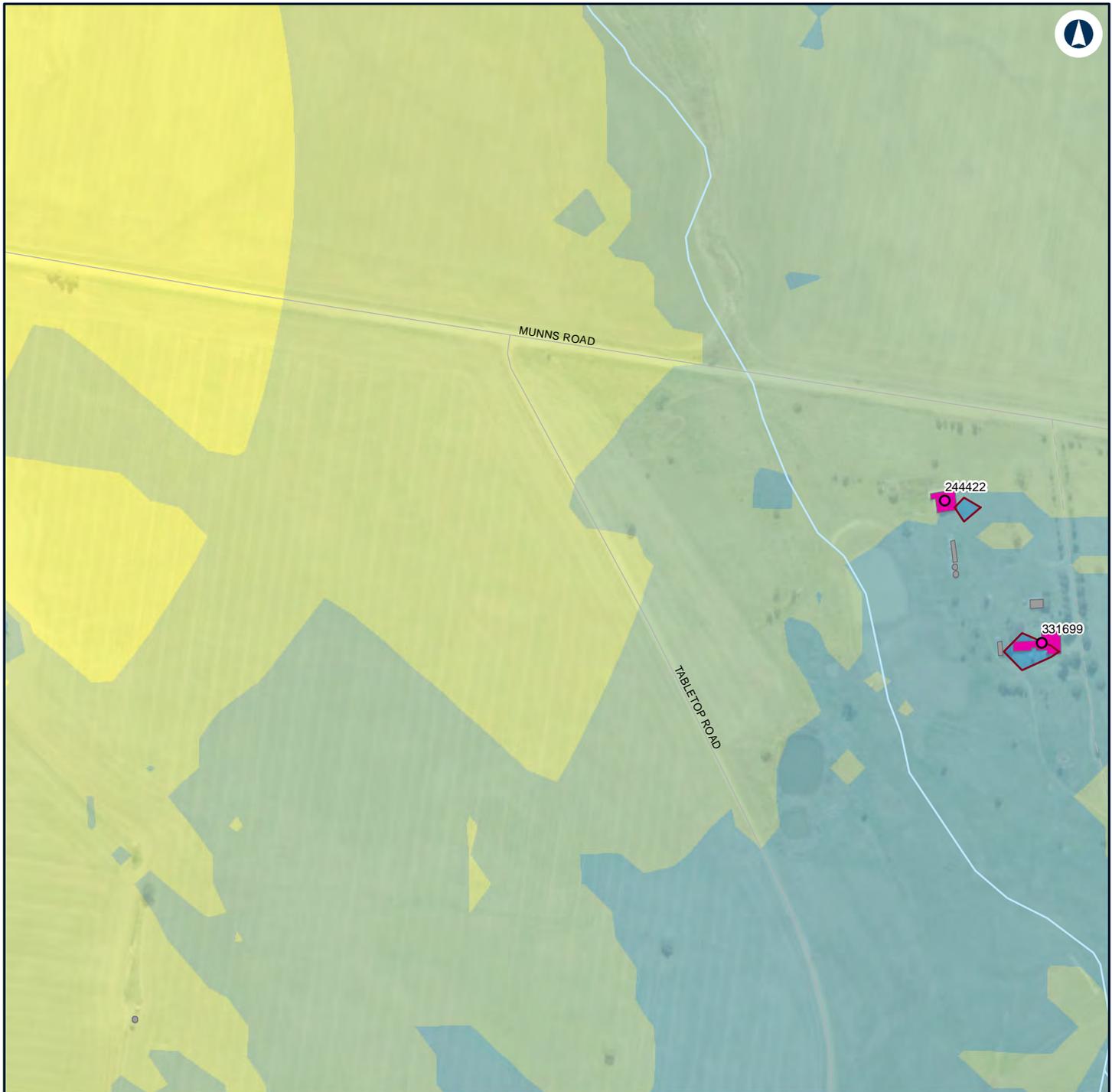
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LEGEND

Structure type	35 - 40
● Residential	40 - 45
■ Other	45 - 50
■ Residential	50 - 55

Noise level (dBA L

Aeq 15 minute)
 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



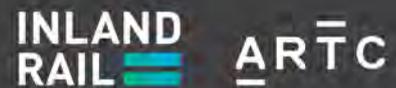
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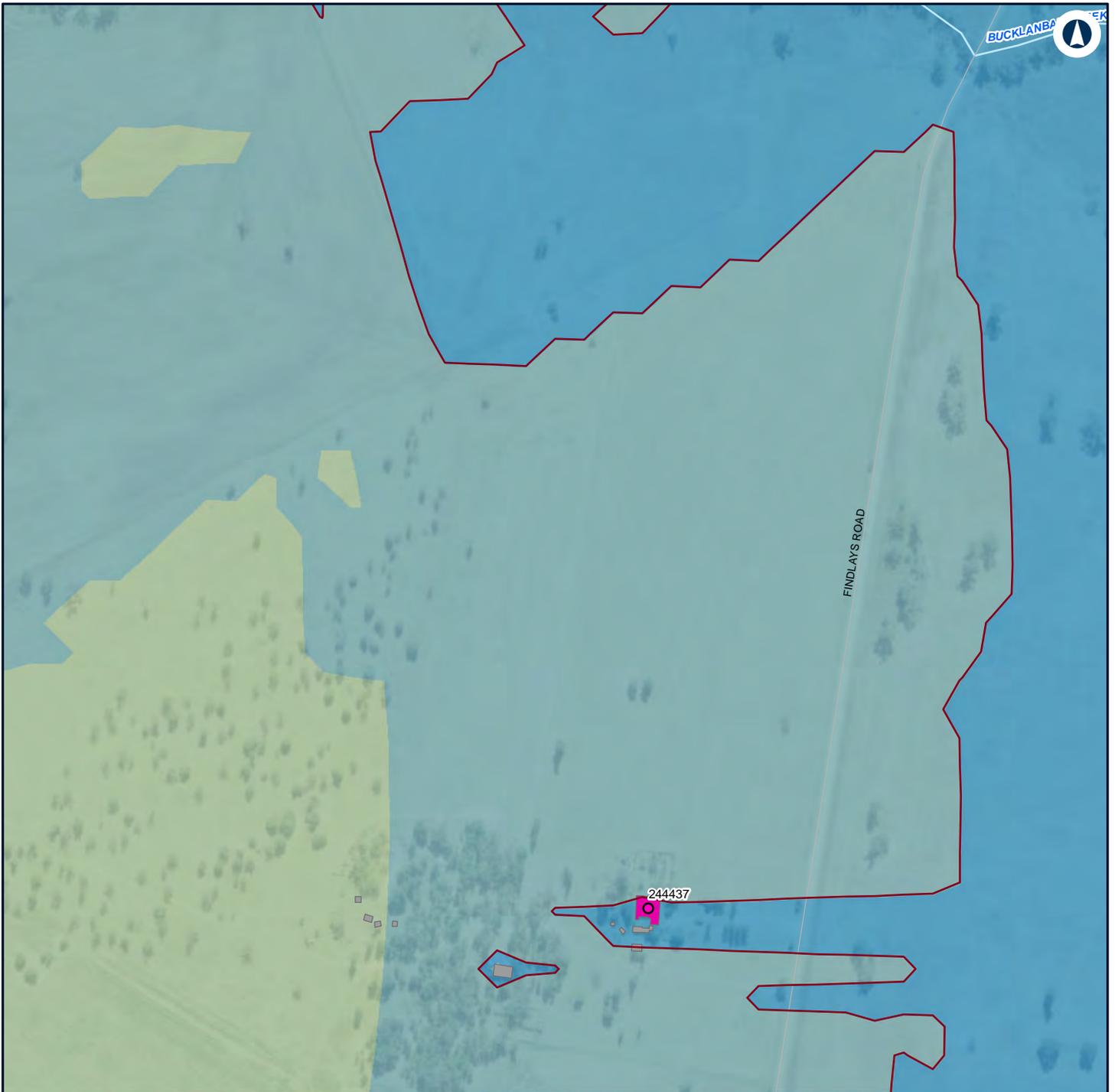
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LEGEND

- Structure type**
- 35 - 40
 - 40 - 45
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



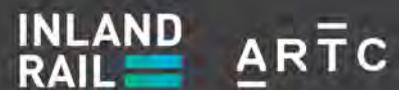
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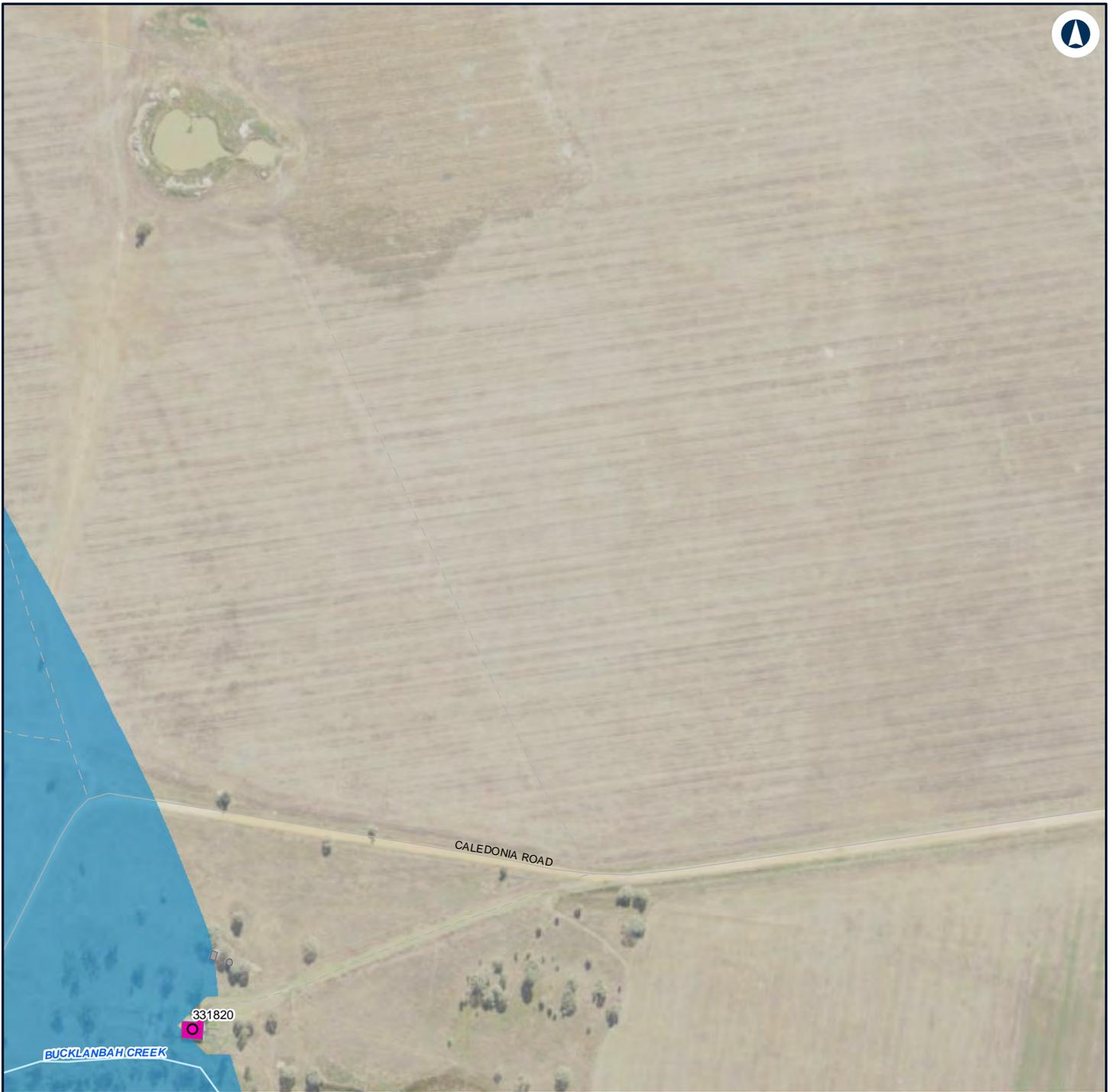
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD



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LEGEND

Structure type

- Residential
- Other
- Residential

Noise level (dBA L

Aeq 15 minute)

- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 197 of 304



Coordinate System: GDA 1994 MGA Zone 55

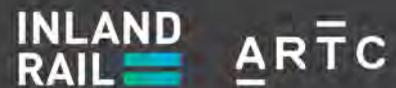
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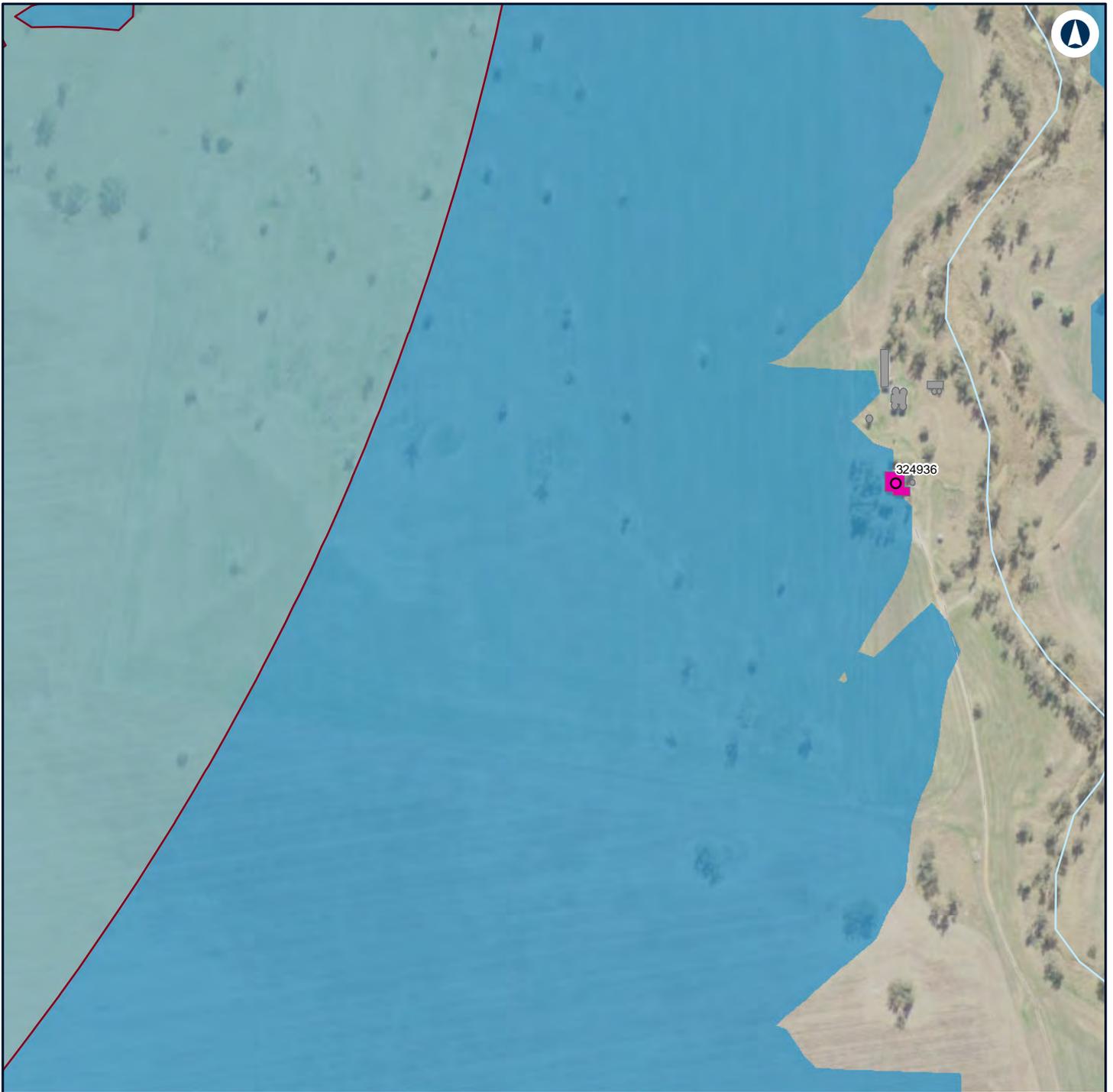
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Author: GHD

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Scale: 1:5,000

Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD



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LEGEND

- Structure type**
- 35 - 40
 - Residential
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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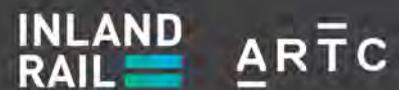
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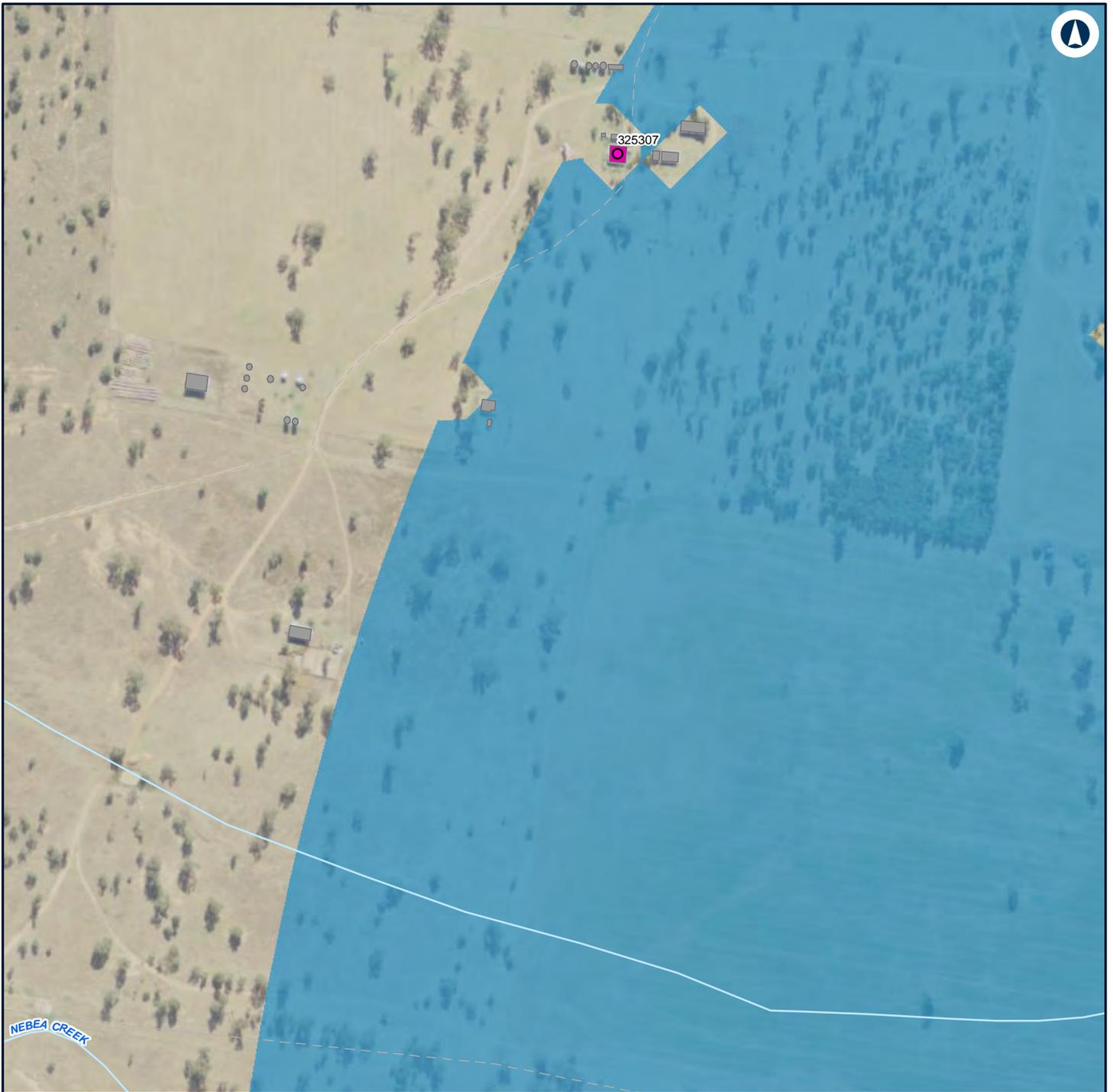
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LEGEND

Structure type

- Residential
- Other
- Residential

Noise level (dBA L

- Aeq 15 minute)
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



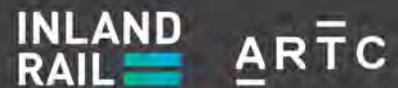
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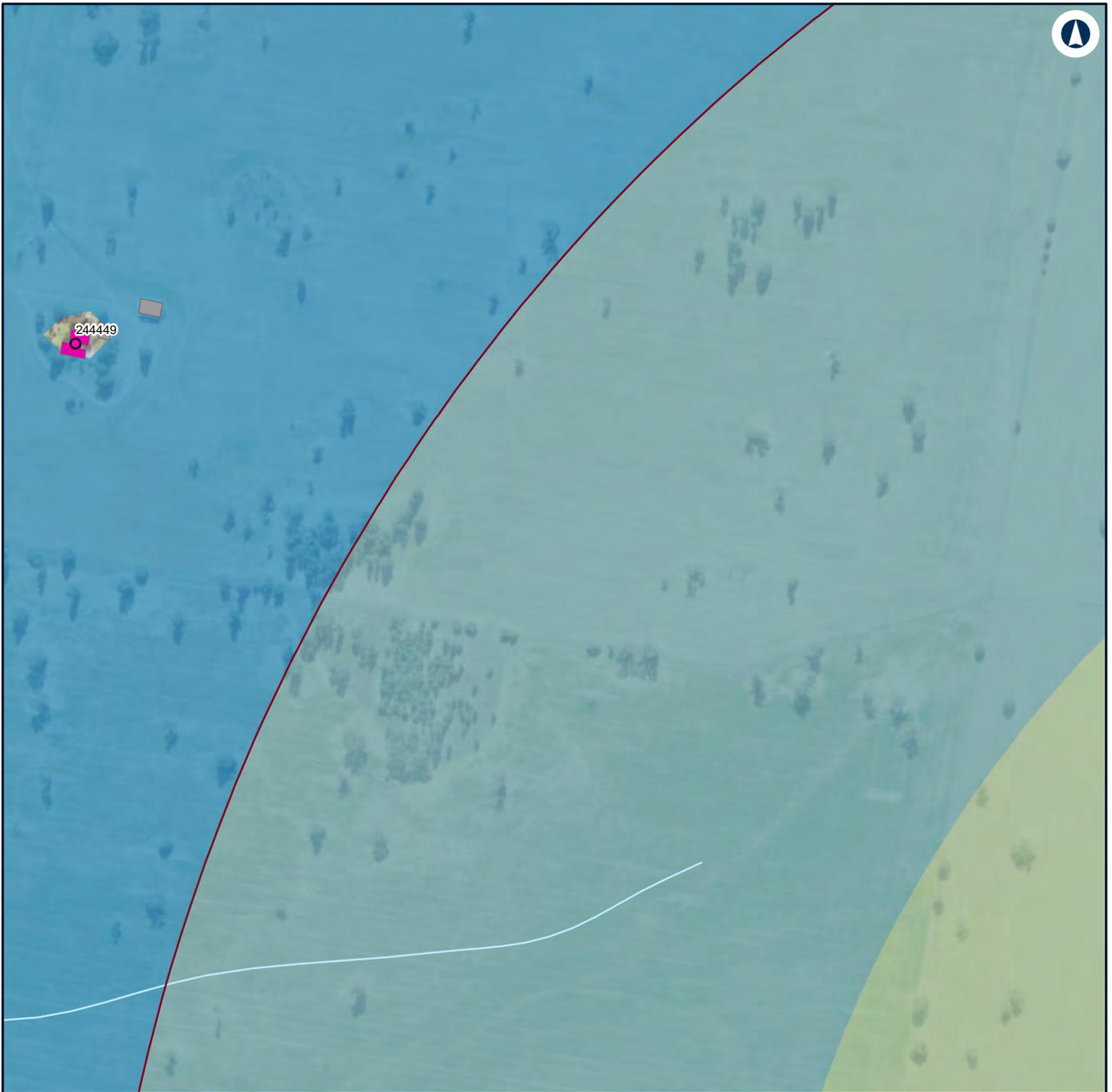
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LEGEND

- Structure type**
- 35 - 40
 - 40 - 45
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



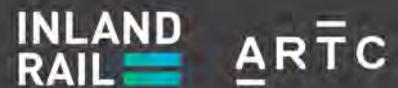
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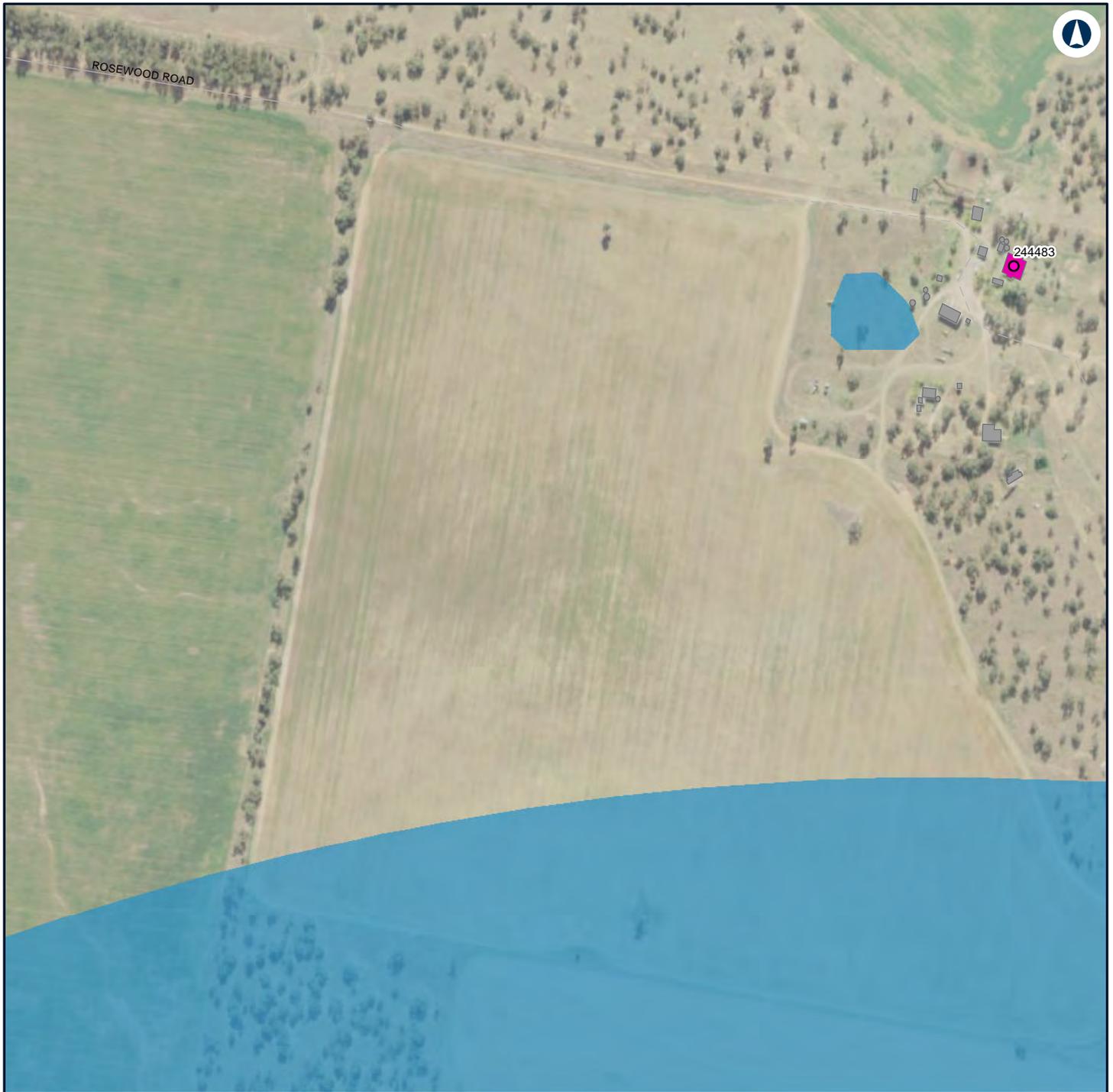
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LEGEND

Structure type

- Residential
- Other
- Residential

Noise level (dBA L

Aeq 15 minute)

- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



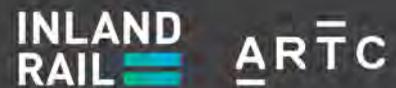
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LEGEND

Structure type

-  Residential
-  Other
-  Residential

Noise level (dBA L

- Aeq 15 minute)
-  30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



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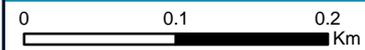
LEGEND

Structure type

- Residential
- Other
- Residential

Noise level (dBA L

- Aeq 15 minute)
- 30 - 35

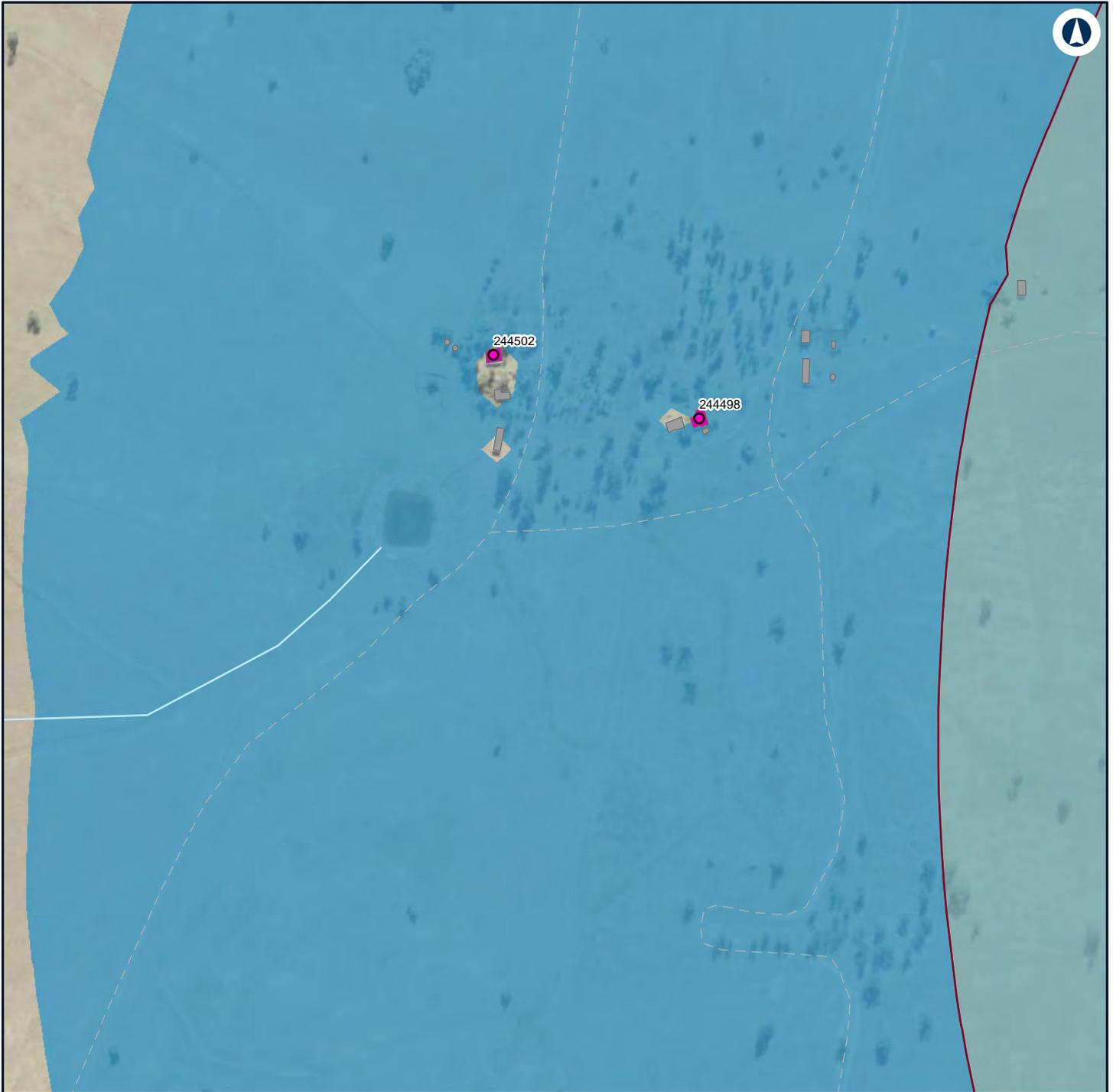


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LEGEND

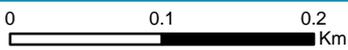
- Structure type**
- 35 - 40
 - Residential
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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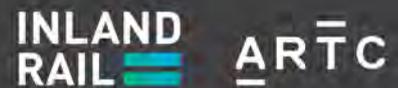
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LEGEND

- Structure type**
- 35 - 40
 - 40 - 45
 - Other
 - Residential
- Noise level (dBA L**
Aeq 15 minute)
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



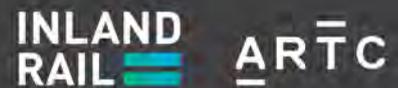
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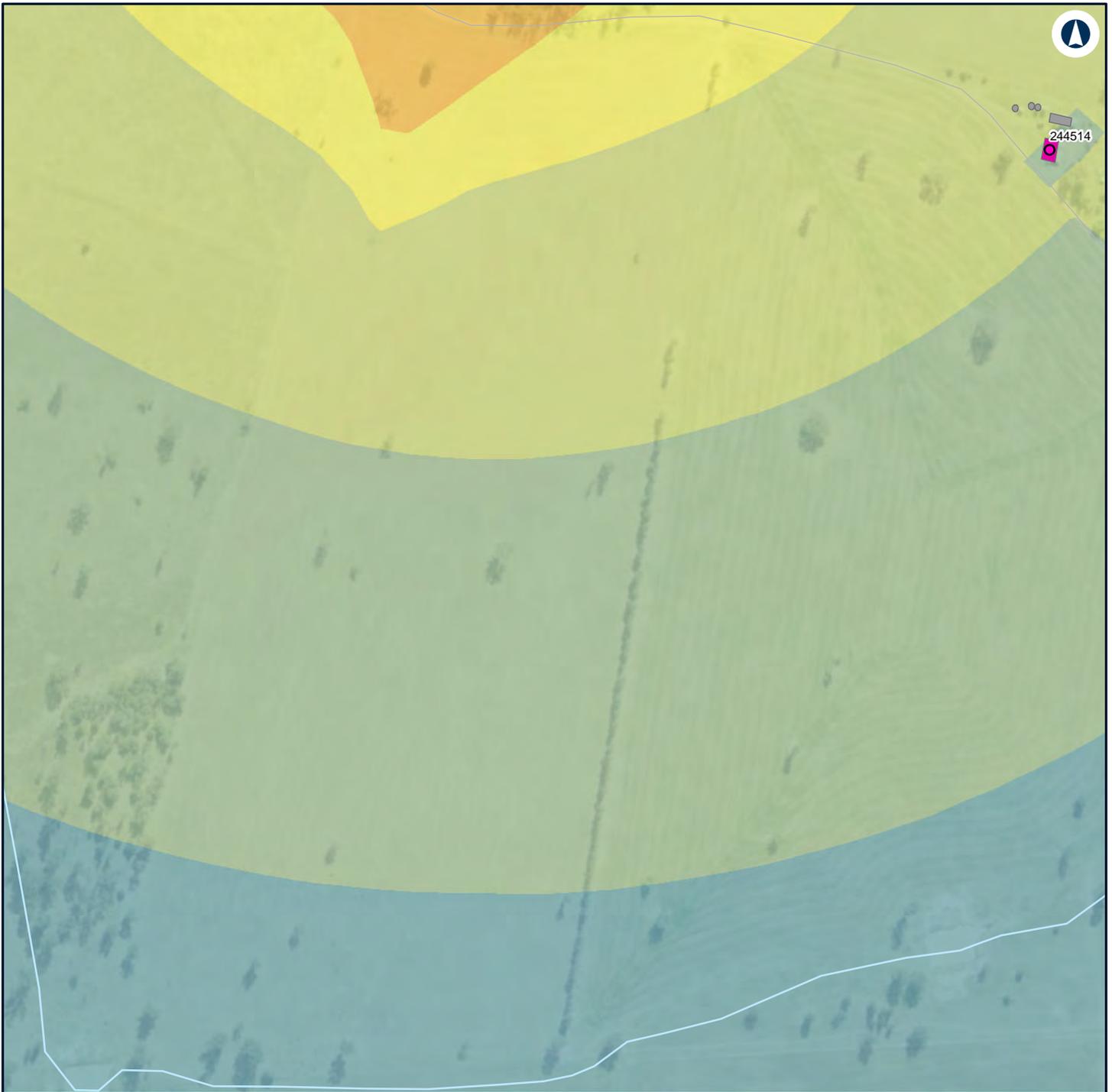
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LEGEND

Structure type			
Residential	40 - 45	45 - 50	
Other	50 - 55		
Residential	55 - 60		

Noise level (dBA L

Aeq 15 minute)
 35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



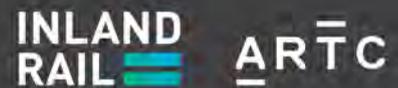
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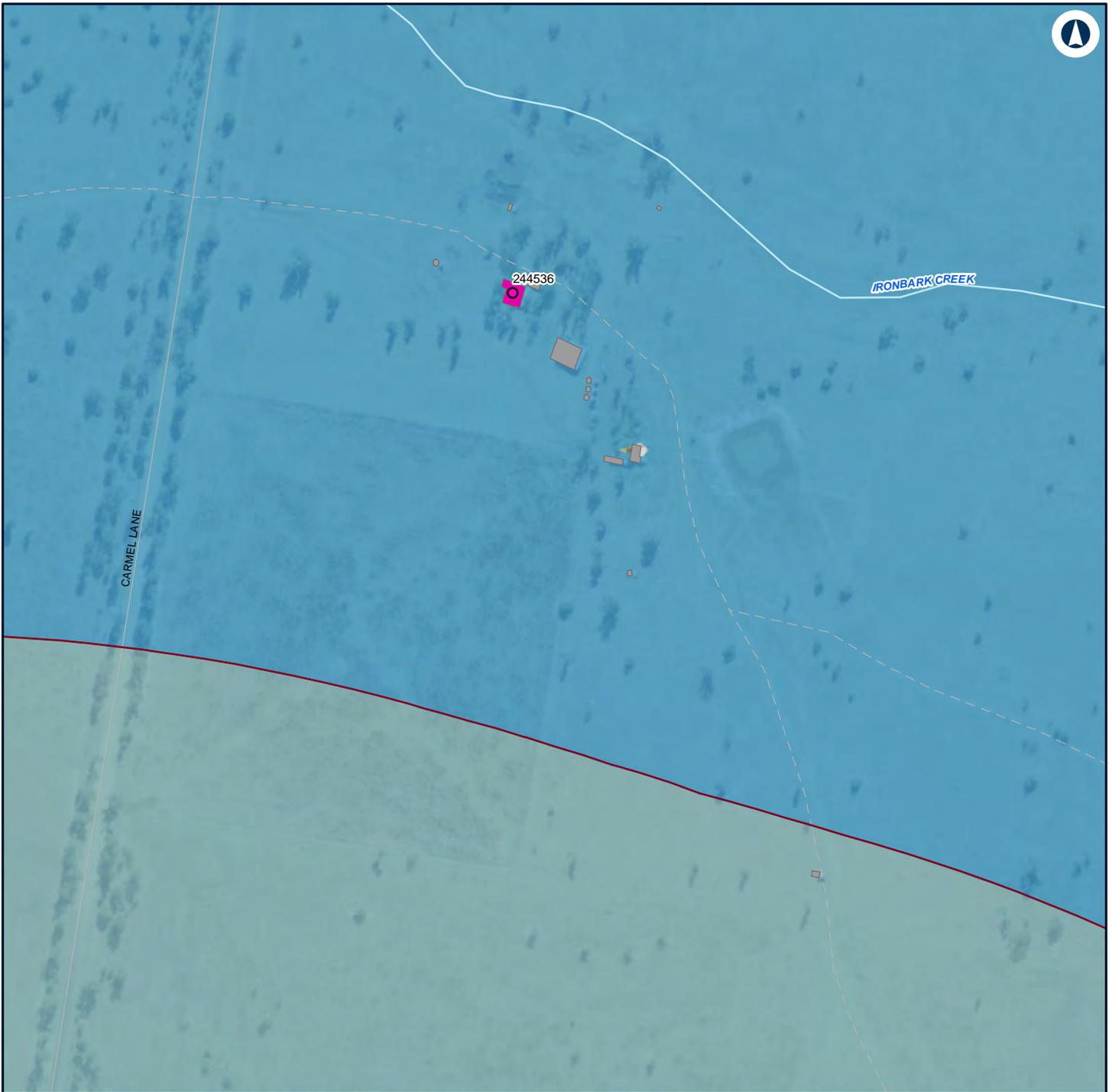
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LEGEND

- Structure type**
- 35 - 40
 - Residential
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



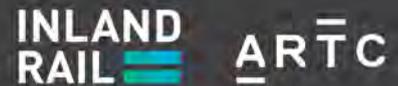
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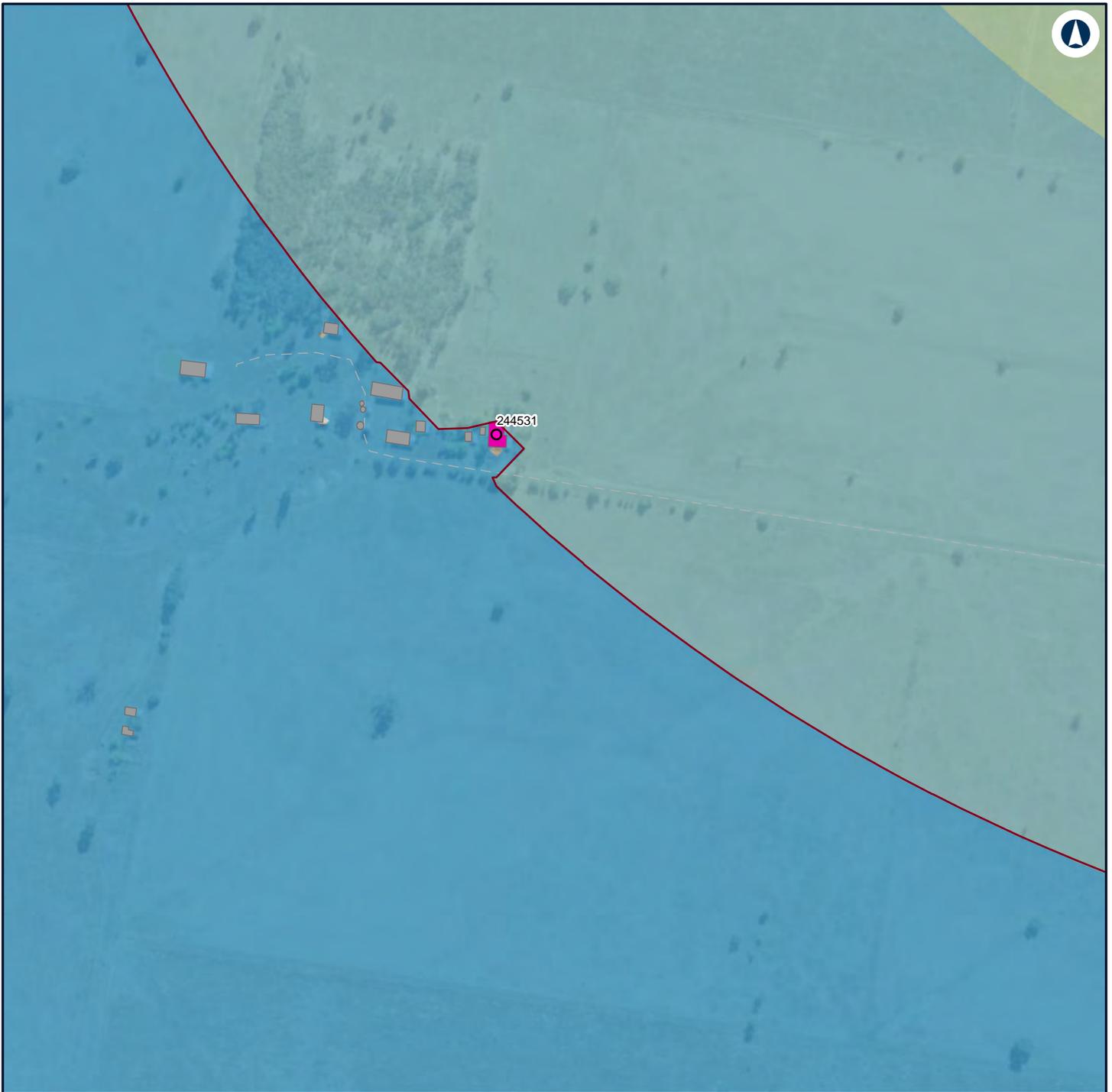
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LEGEND

- Structure type**
- 35 - 40
 - 40 - 45
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



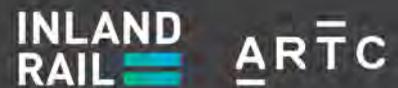
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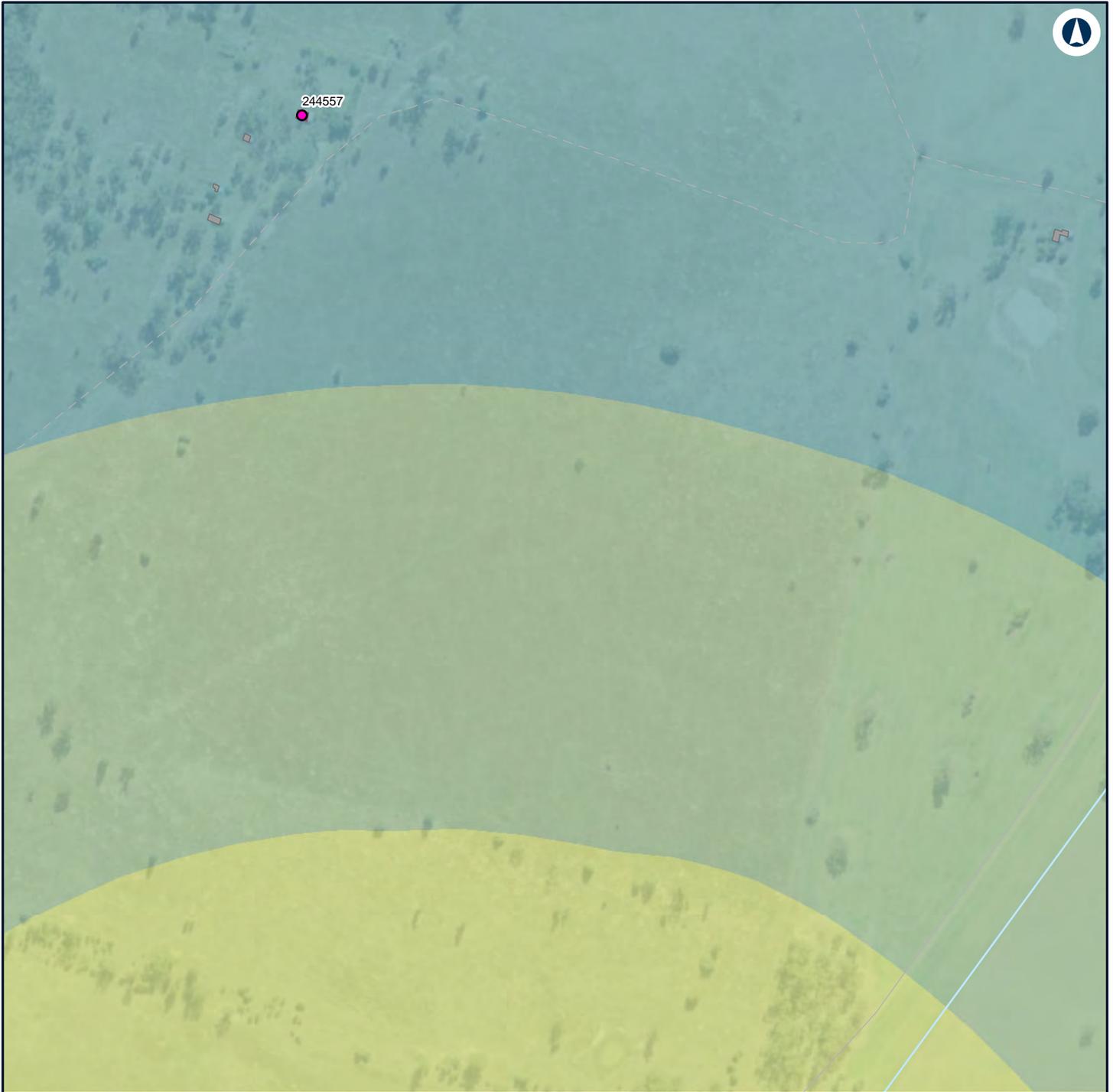
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LEGEND

- Structure type**
- 40 - 45
 - 45 - 50
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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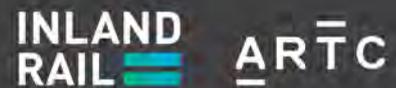
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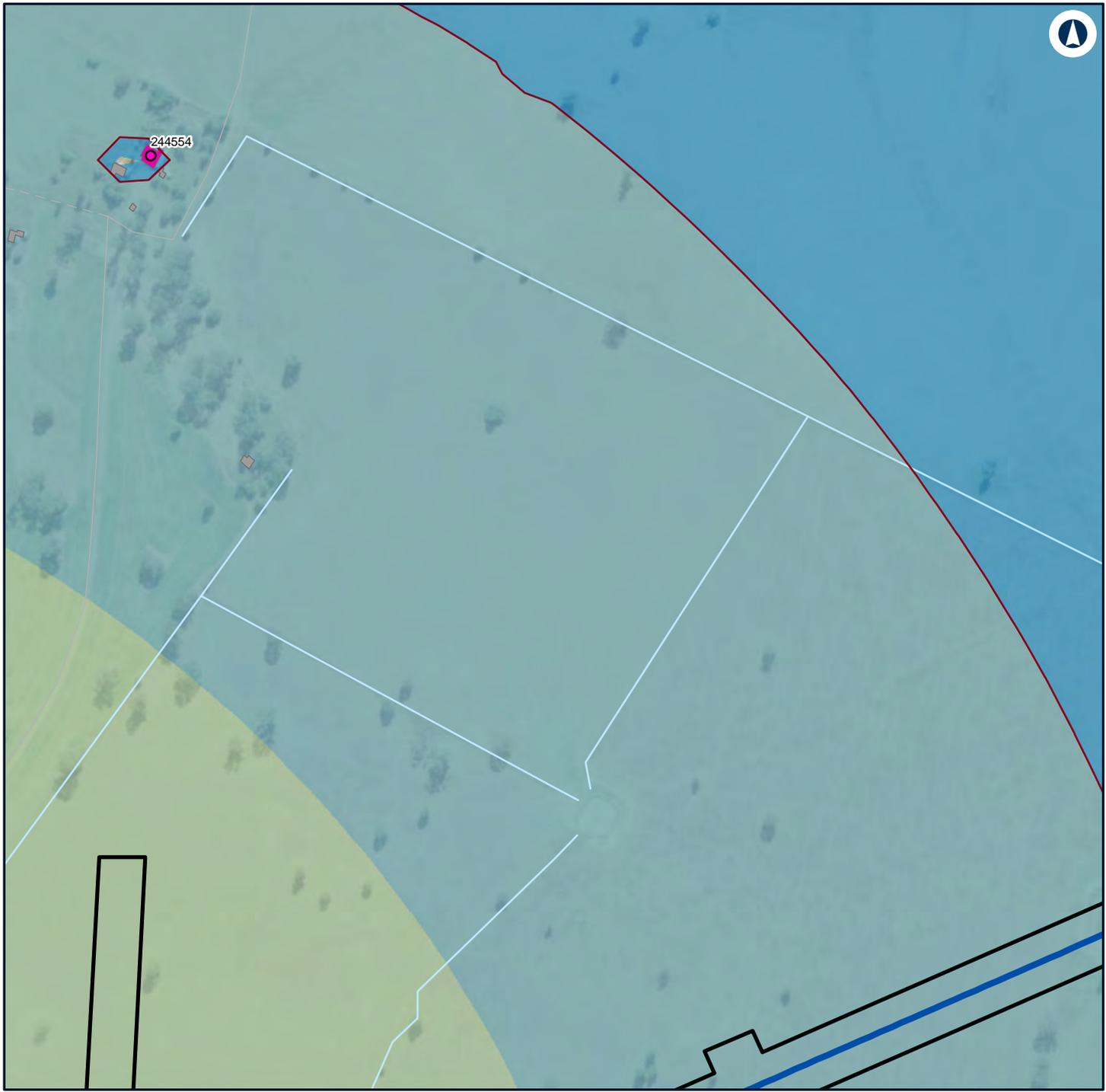
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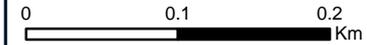


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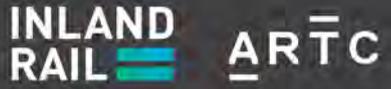
LEGEND

- Alignment
- Construction footprint
- Structure type**
 - Residential
 - Other
 - Residential
- Noise level (dBA L Aeq 15 minute)**
 - 30 - 35
 - 35 - 40
 - 40 - 45

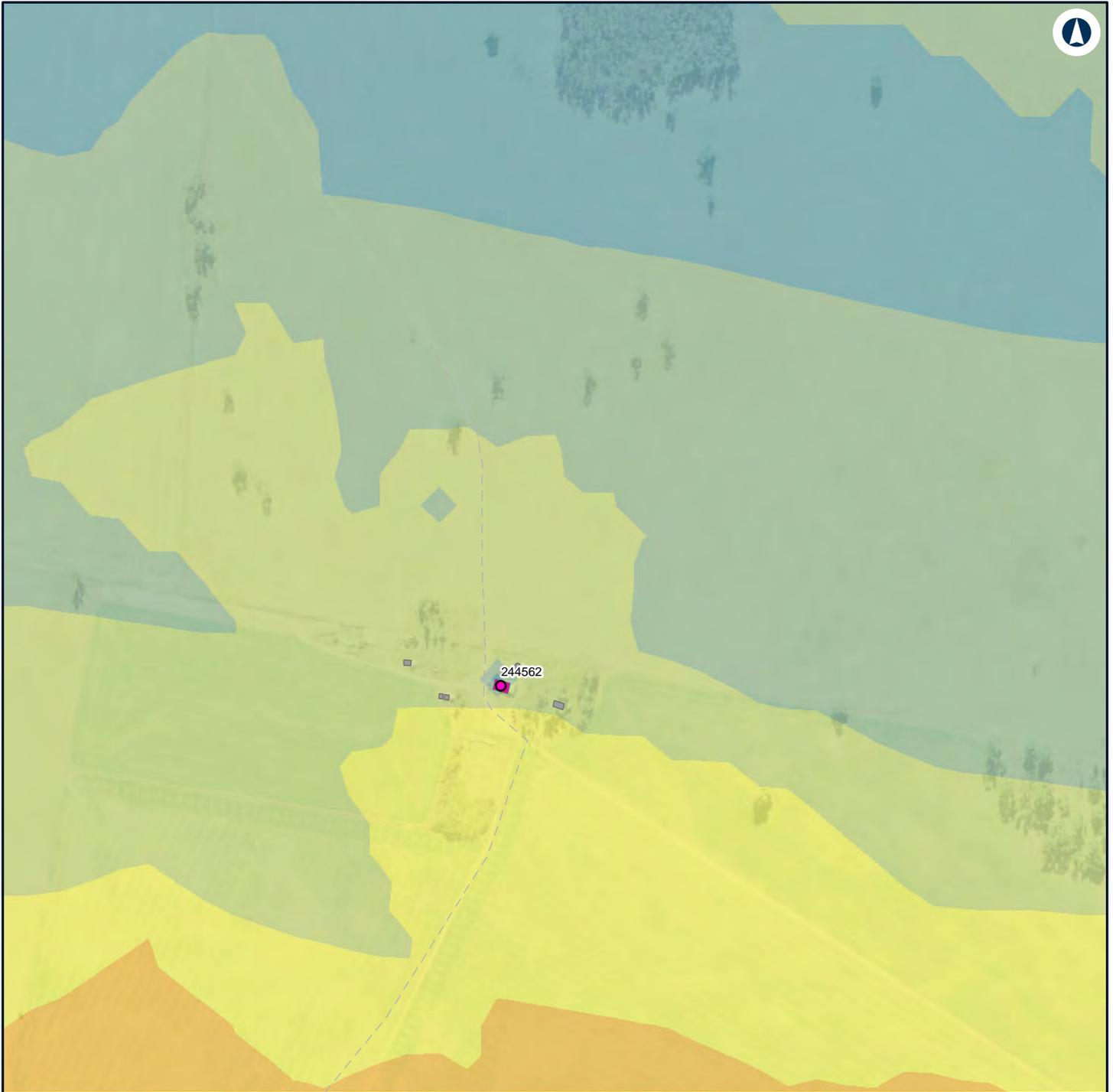


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LEGEND

Structure type		40 - 45
● Residential	■	45 - 50
■ Other	■	50 - 55
■ Residential	■	55 - 60

Noise level (dBA L

Aeq 15 minute)
■ 35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



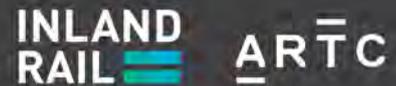
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LEGEND

Structure type

- Residential
- Other
- Residential

Noise level (dBA L

Aeq 15 minute)
 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



Coordinate System: GDA 1994 MGA Zone 55

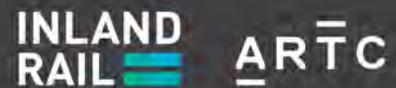
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LEGEND

- Structure type**
- 35 - 40
 - Residential
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



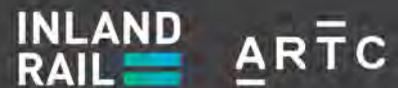
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LEGEND

Structure type

- Residential
- Other
- Residential

Noise level (dBA L

- Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



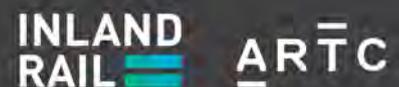
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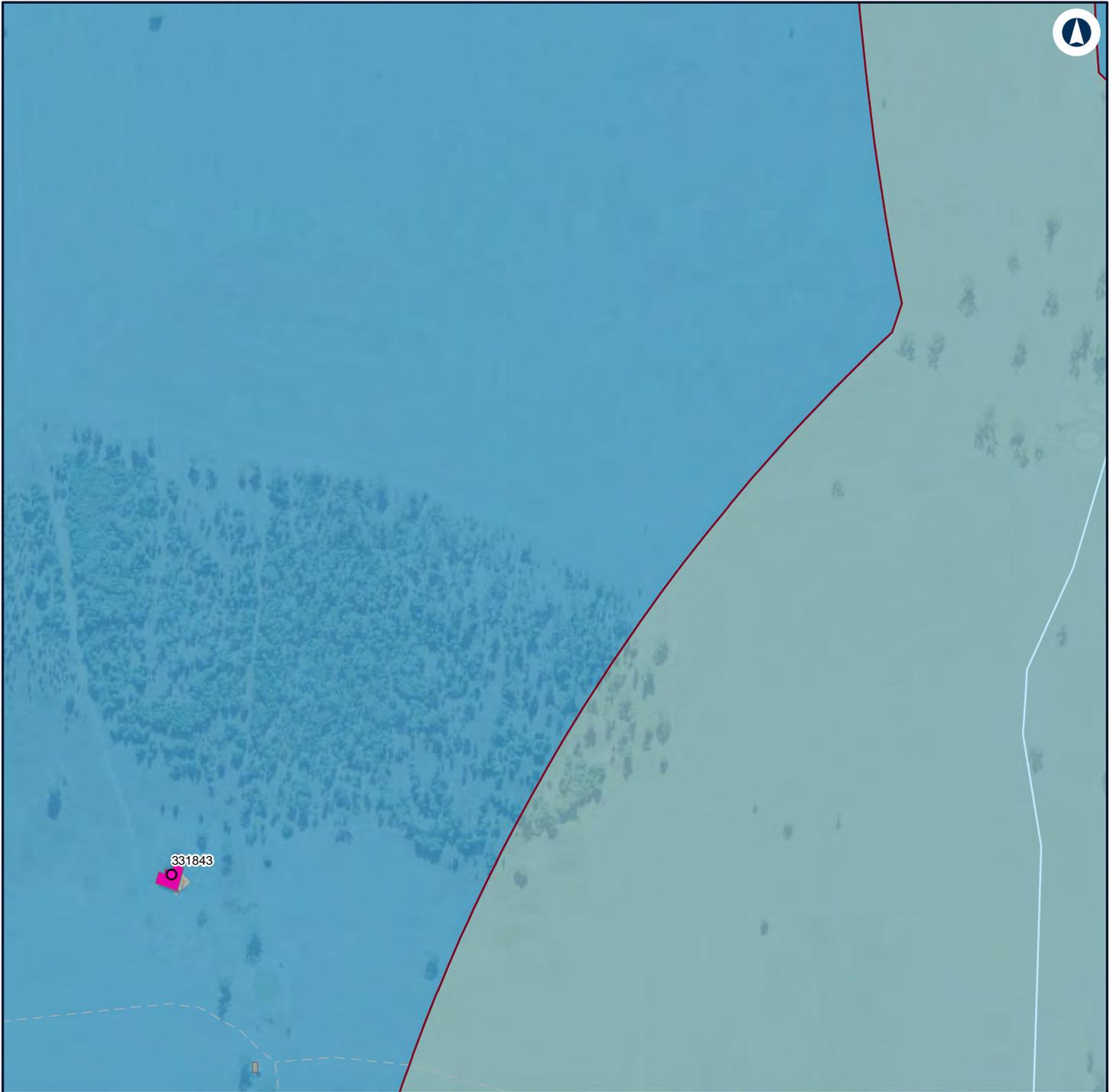
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LEGEND

- Structure type**
- 35 - 40
 - Residential
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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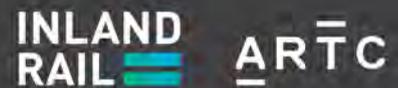
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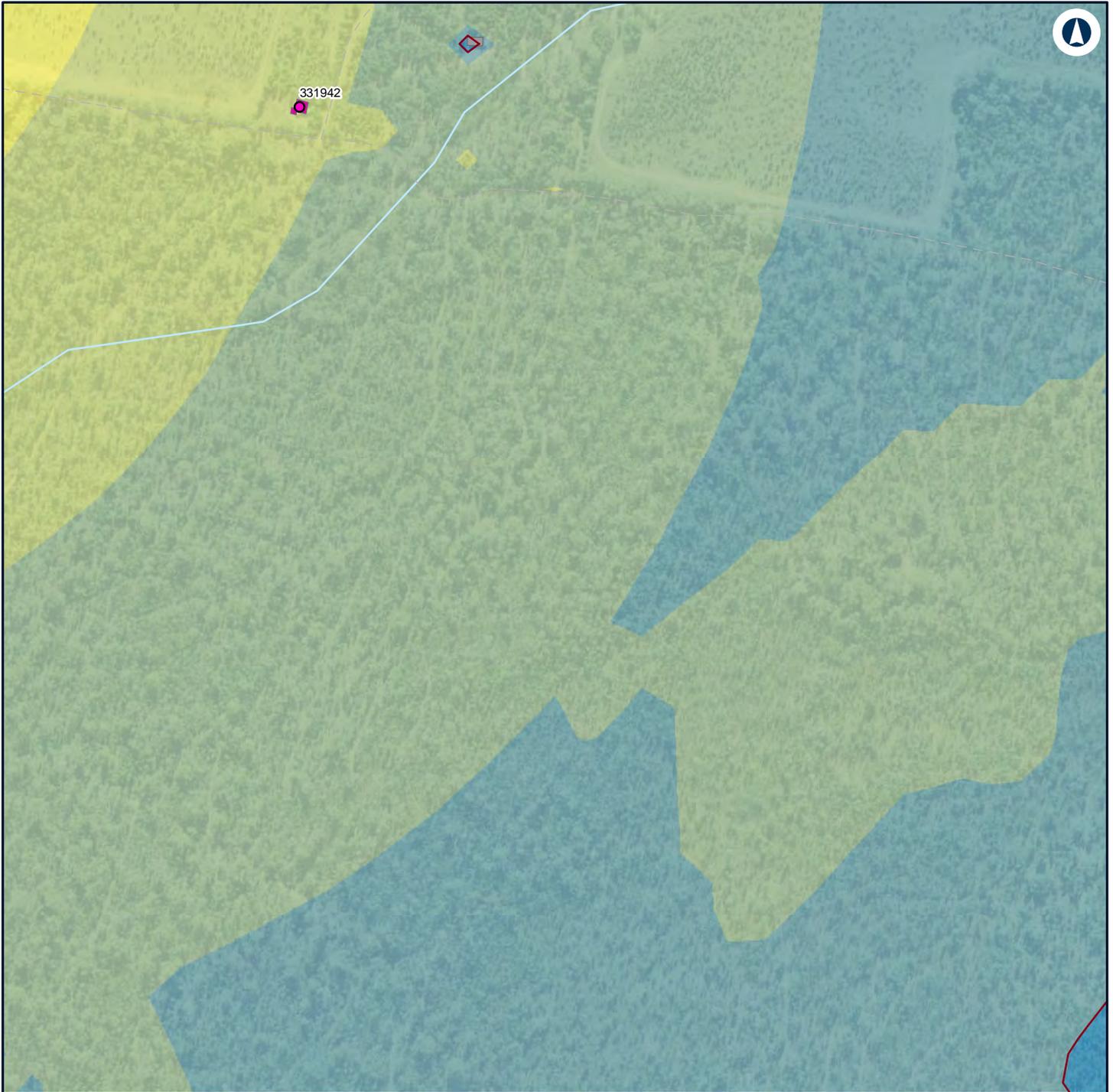
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LEGEND

Structure type		35 - 40
● Residential	■	40 - 45
■ Other	■	45 - 50
● Residential	■	50 - 55

Noise level (dBA L

Aeq 15 minute)
 ■ 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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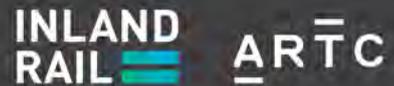


Coordinate System: GDA 1994 MGA Zone 55

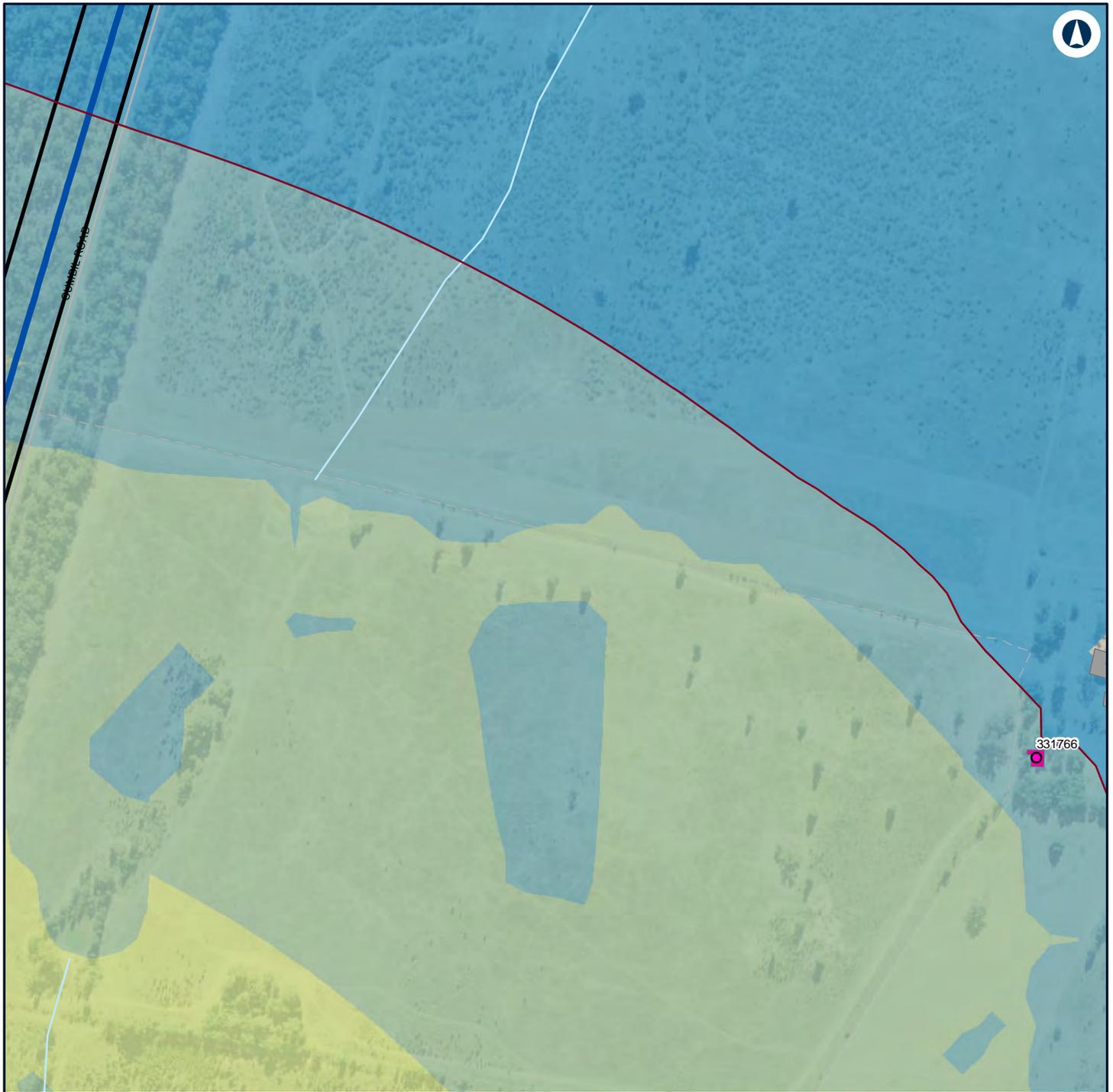
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LEGEND

- Alignment
- Construction footprint
- Structure type**
 - Residential
 - Other
 - Residential
- Noise level (dBA L Aeq 15 minute)**
 - 30 - 35
 - 35 - 40
 - 40 - 45
 - 45 - 50



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



Coordinate System: GDA 1994 MGA Zone 55

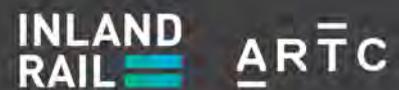
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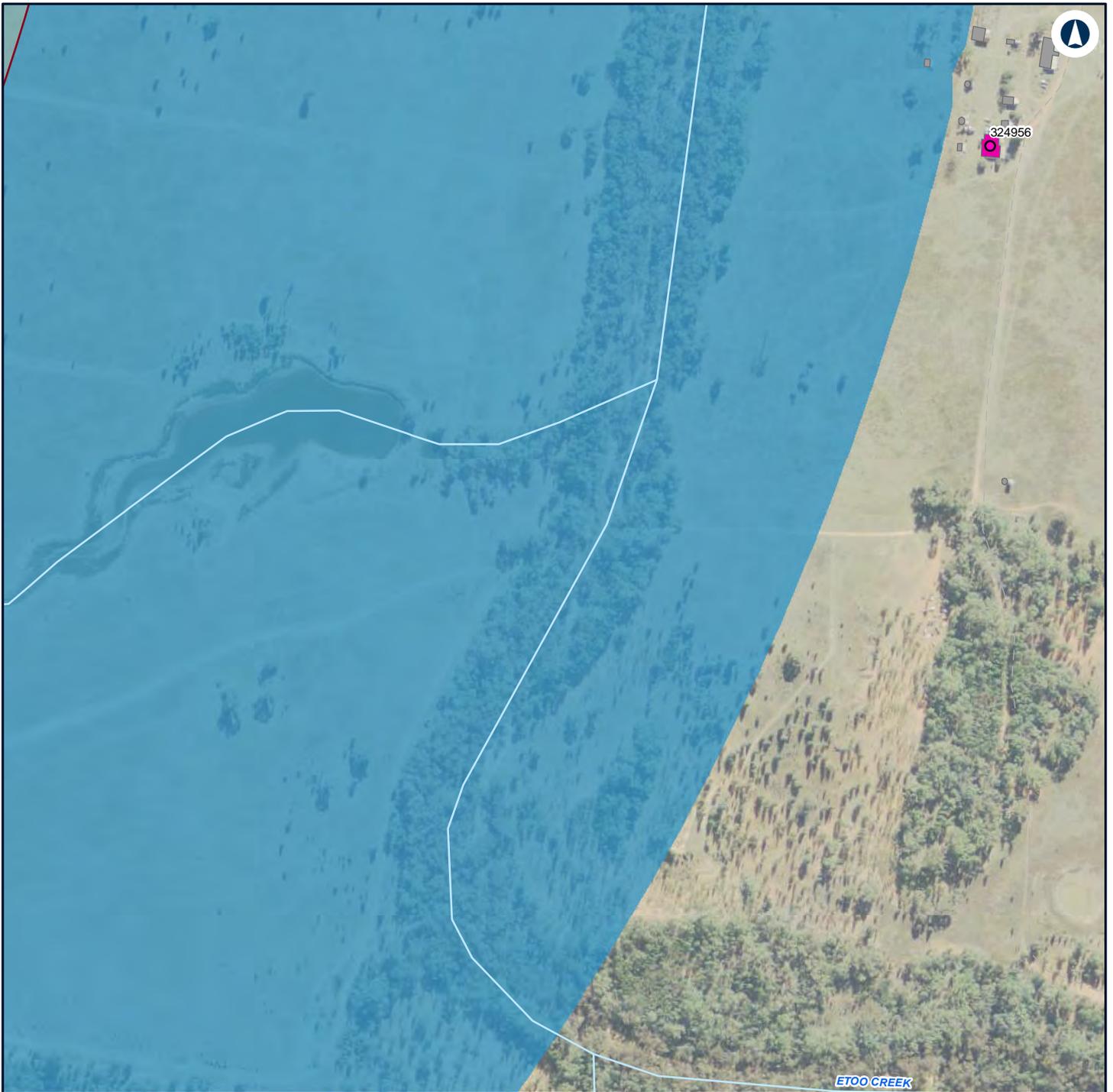
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Paper: A4
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LEGEND

- Structure type**
- 35 - 40
 - Residential
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



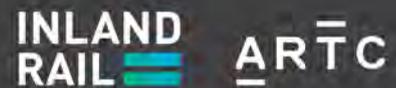
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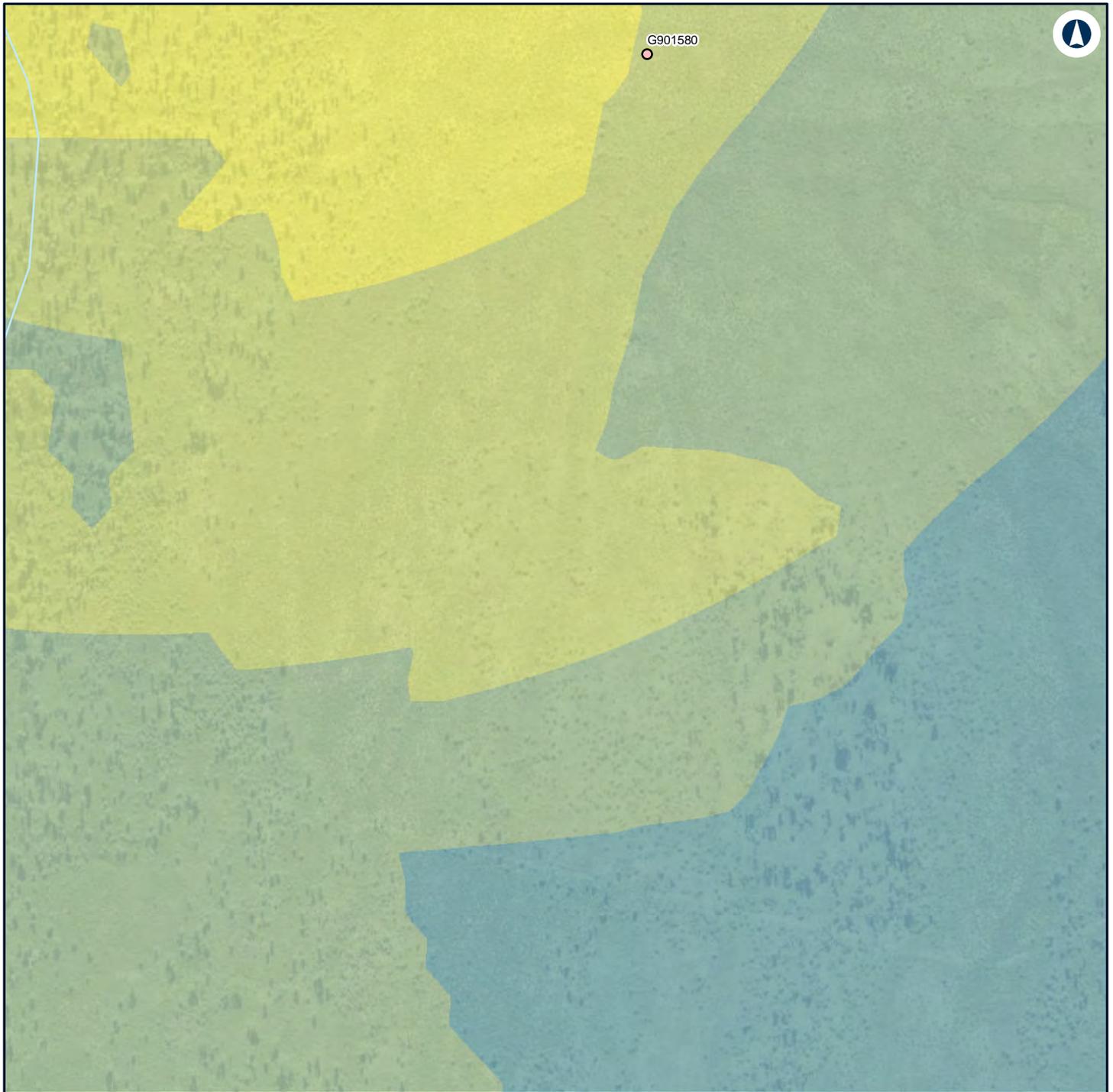
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LEGEND

- Structure type**
- 50 - 55
 - 55 - 60
- Passive recreation

Noise level (dBA L

- Aeq 15 minute)**
- 35 - 40
 - 40 - 45
 - 45 - 50



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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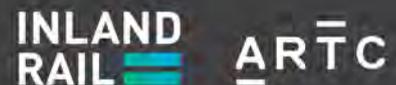
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LEGEND

Structure type

- Residential
- Other
- Residential

Noise level (dBA L

- Aeq 15 minute)
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



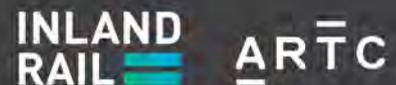
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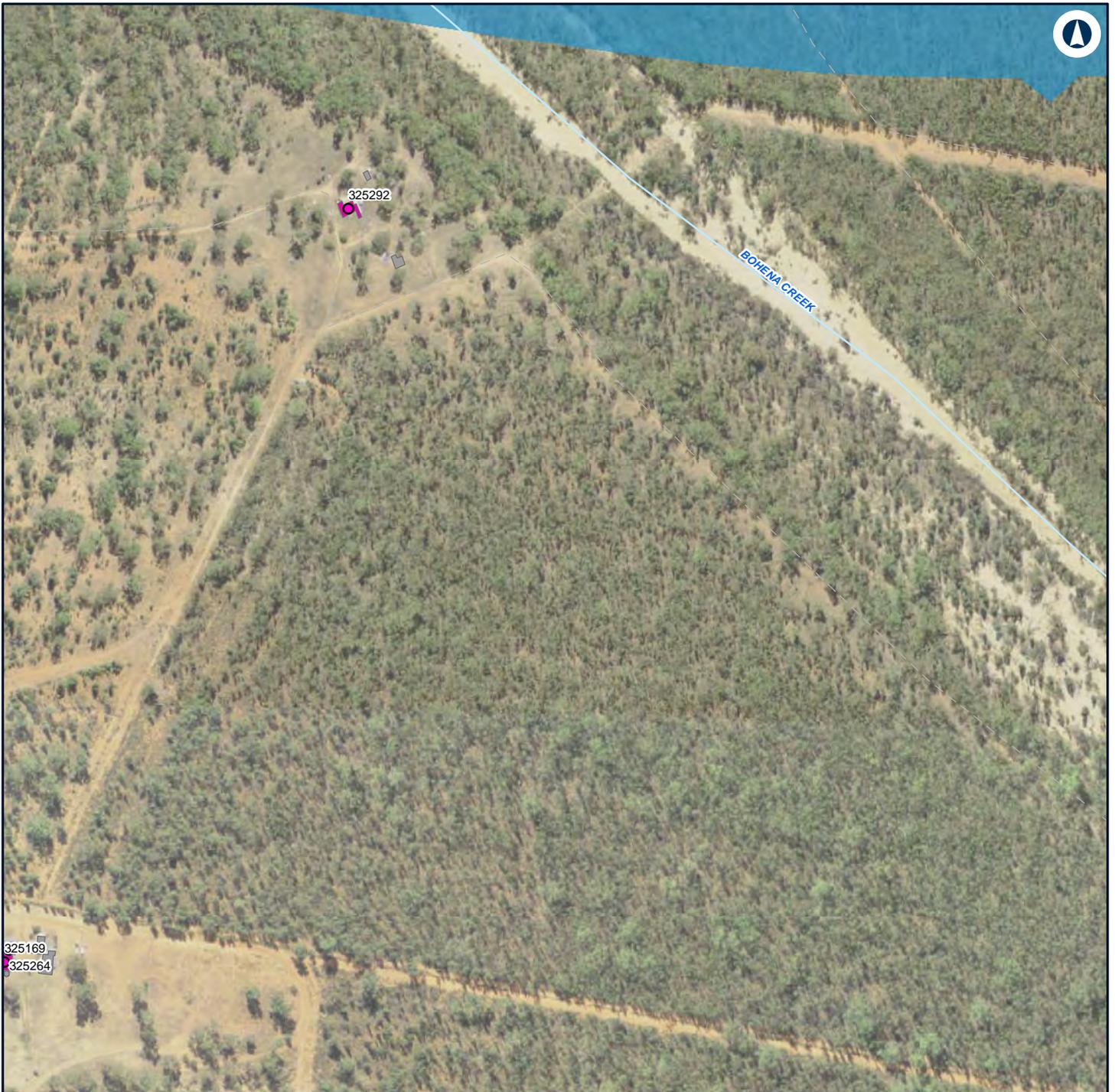
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LEGEND

Structure type

- Residential
- Other
- Residential

Noise level (dBA L

Aeq 15 minute)

- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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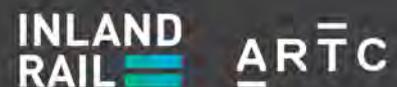
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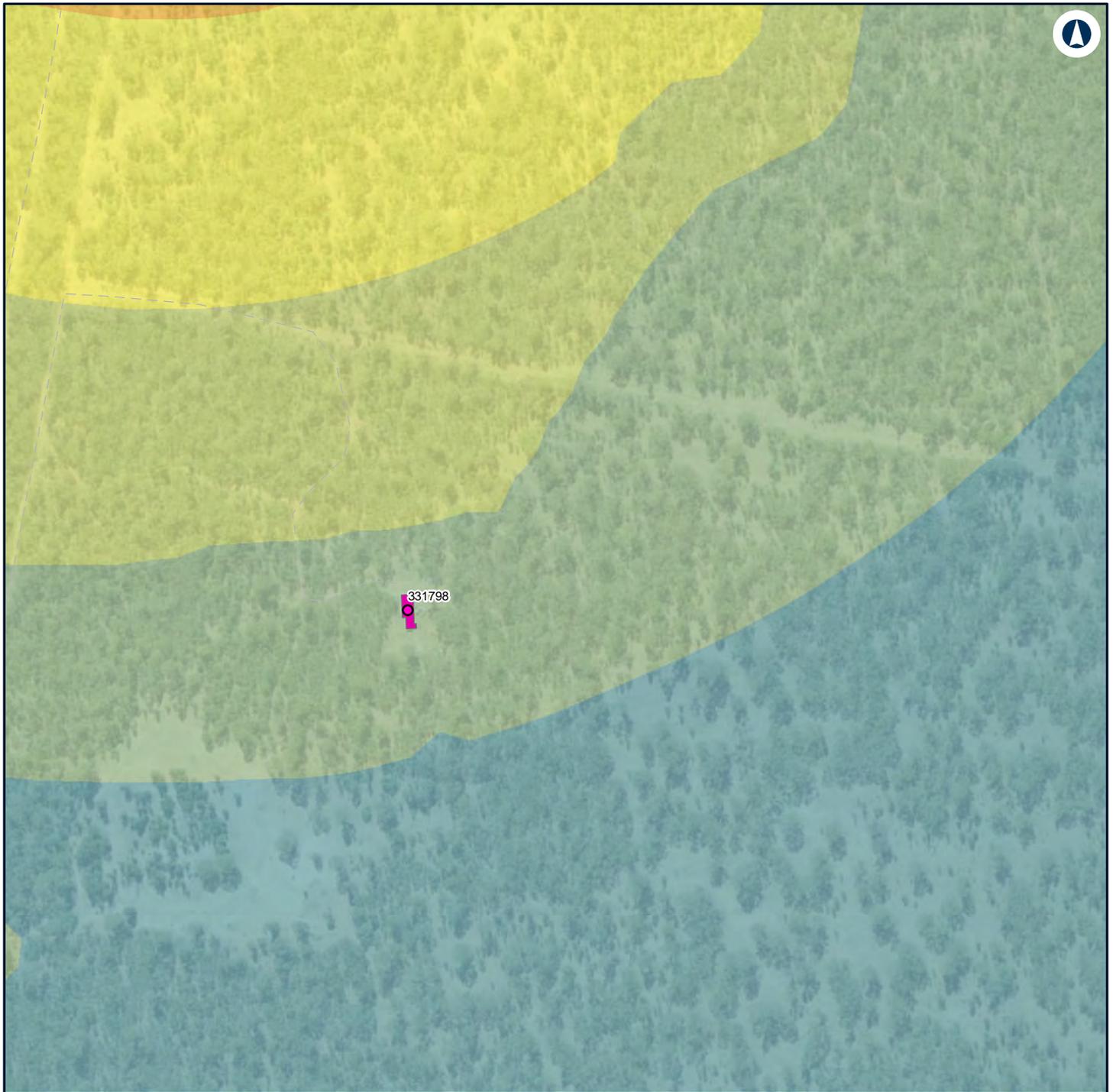
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LEGEND

- Structure type**
- Residential
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 35 - 40
 - 40 - 45
 - 50 - 55
 - 55 - 60



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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Coordinate System: GDA 1994 MGA Zone 55

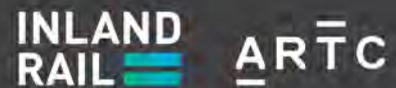
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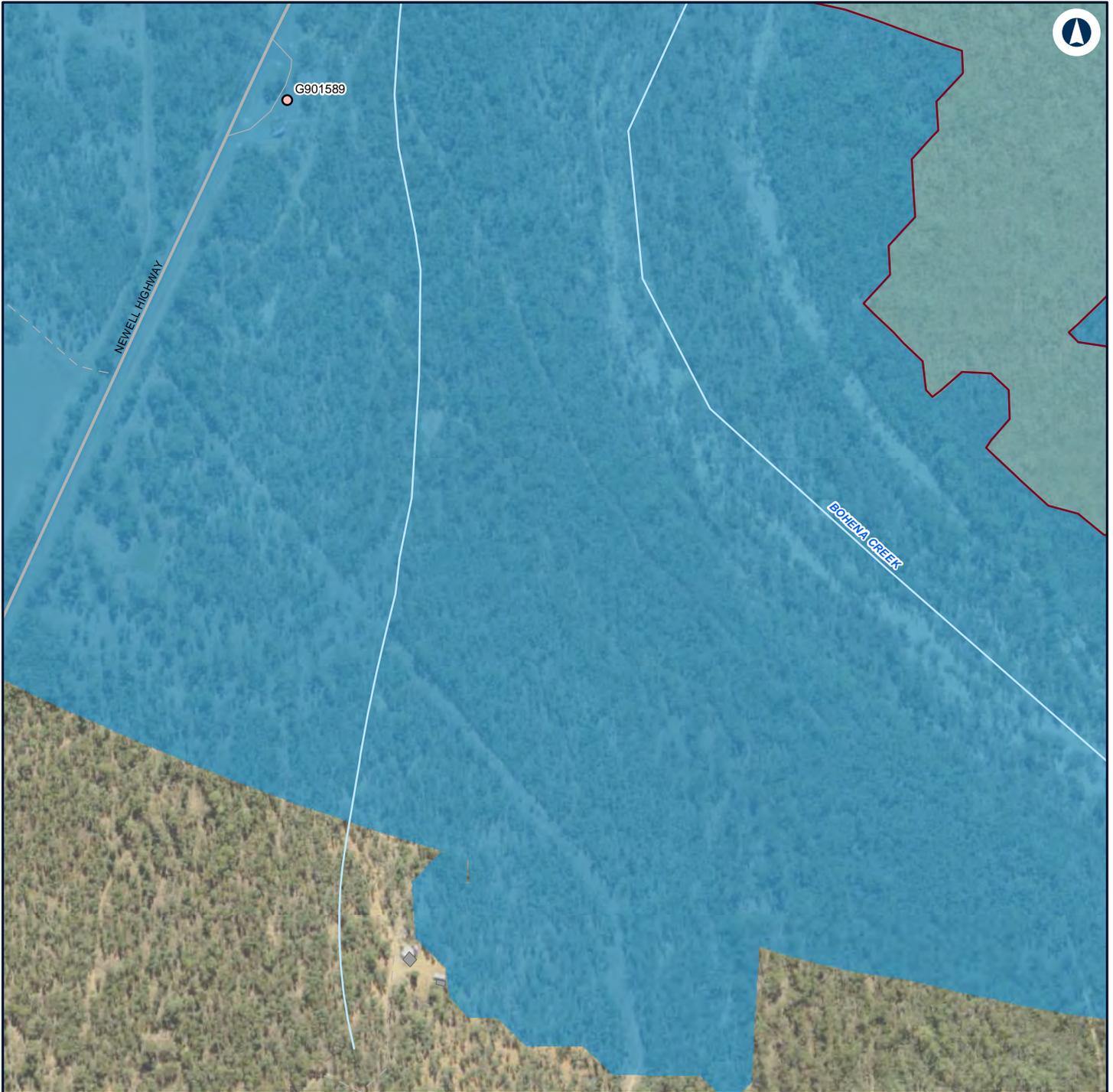
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Author: GHD

Paper: A4
Scale: 1:5,000

Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD



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LEGEND

Structure type

○ Passive recreation

■ Other

Noise level (dBA L

Aeq 15 minute)

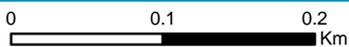
■ 30 - 35

■ 35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



Coordinate System: GDA 1994 MGA Zone 55

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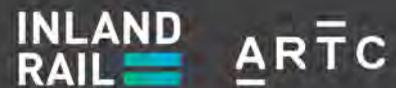
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LEGEND

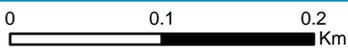
- Structure type**
- 35 - 40
 - 40 - 45
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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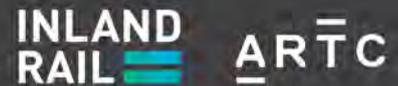
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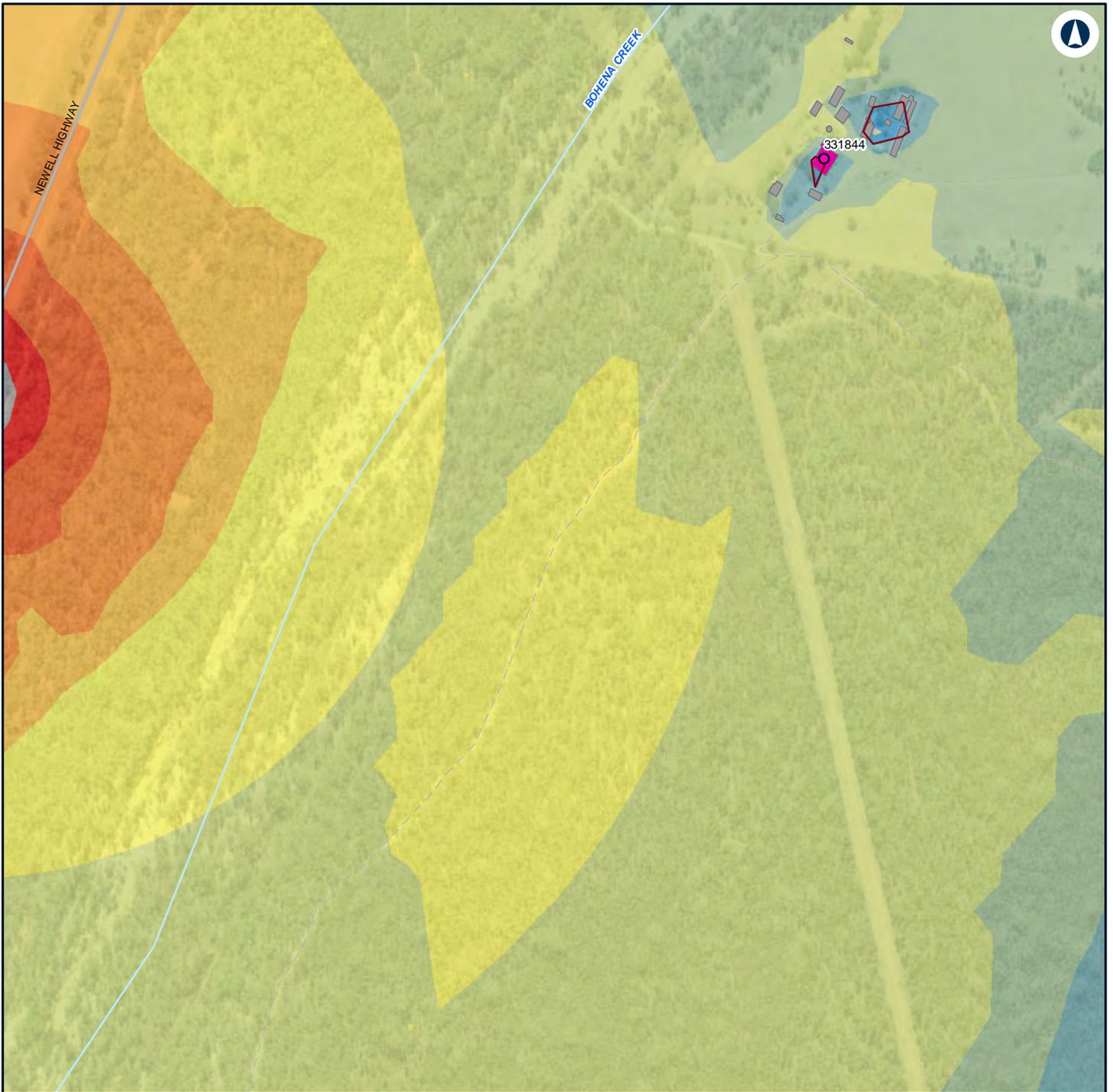
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LEGEND

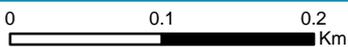
Structure type	35 - 40	70 - 75
Residential	40 - 45	> 75
Other	45 - 50	
Residential	50 - 55	
Noise level (dBA L Aeq 15 minute)	55 - 60	
60 - 65	65 - 70	
30 - 35		



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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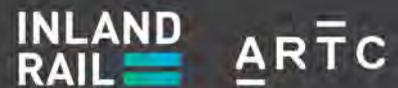


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LEGEND

- Structure type**
- 35 - 40
 - 40 - 45
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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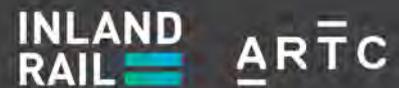
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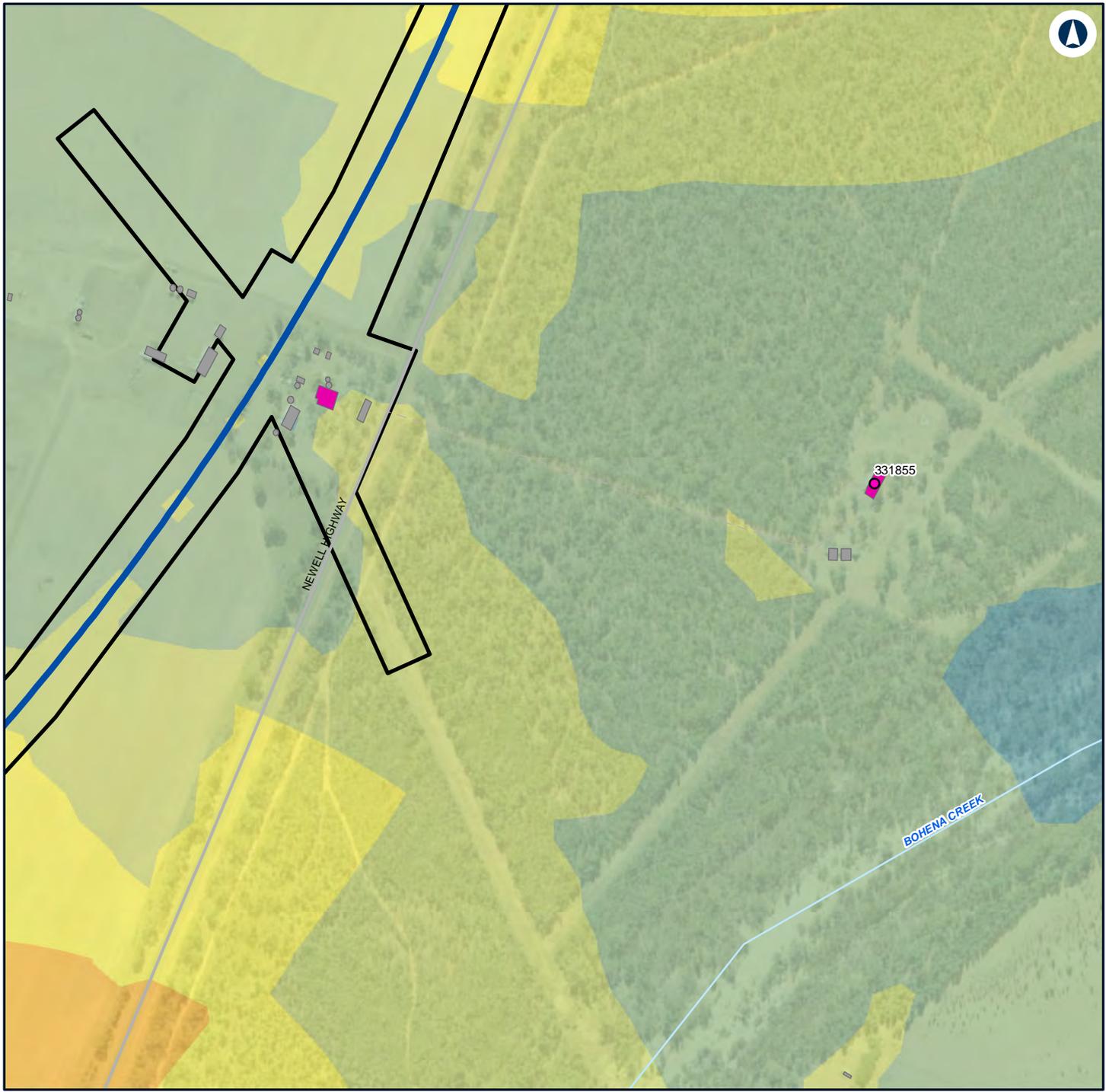
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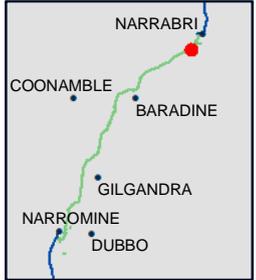


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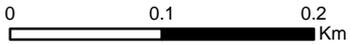
LEGEND

- Alignment
 - Construction footprint
 - Structure type**
 - Residential
 - Other
 - Residential
- | Noise level (dBA L
Aeq 15 minute) | |
|--------------------------------------|---------|
| | 35 - 40 |
| | 40 - 45 |
| | 45 - 50 |
| | 50 - 55 |
| | 55 - 60 |



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



Coordinate System: GDA 1994 MGA Zone 55

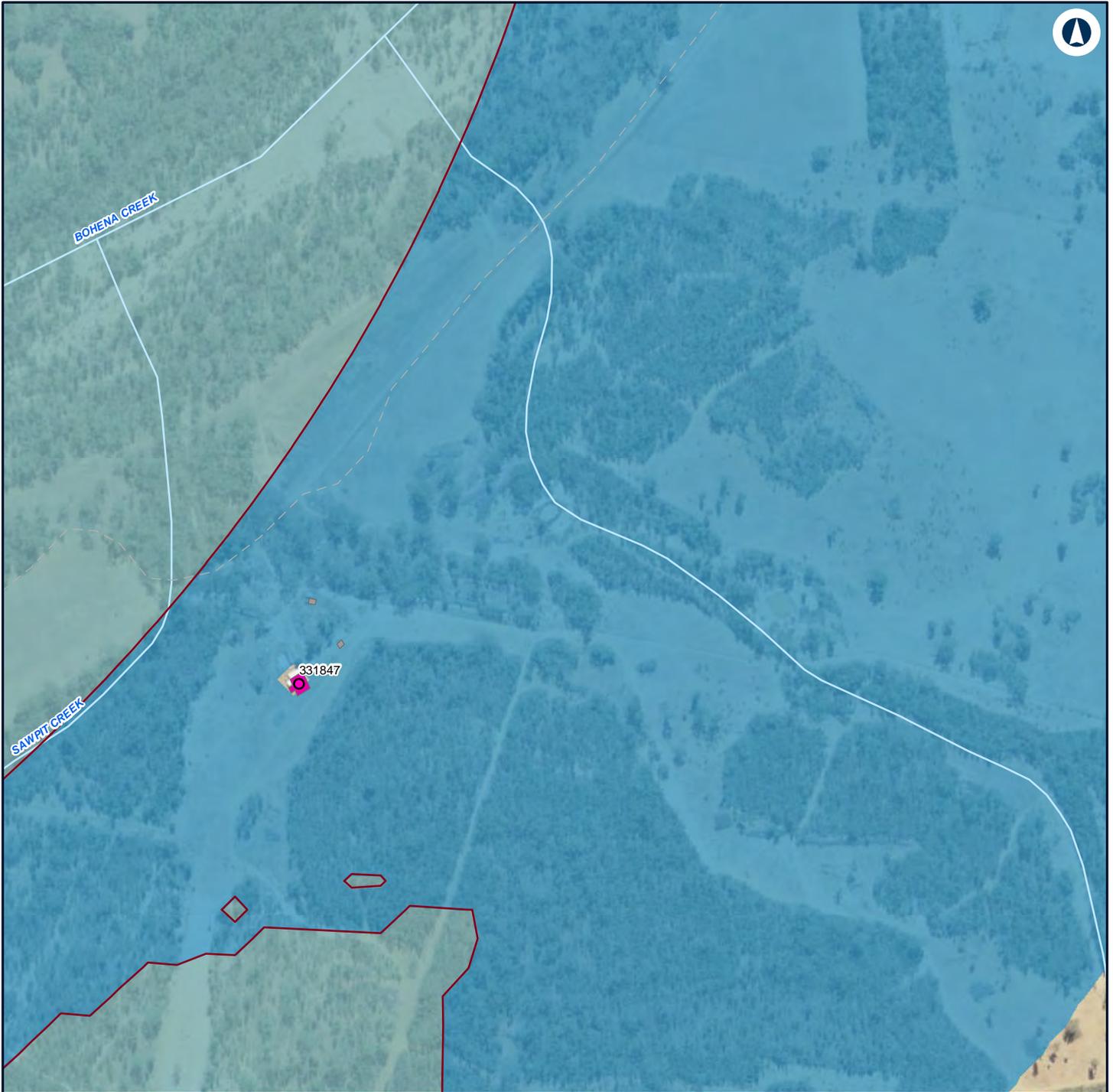
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LEGEND

- Structure type**
- 35 - 40
 - Residential
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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Coordinate System: GDA 1994 MGA Zone 55

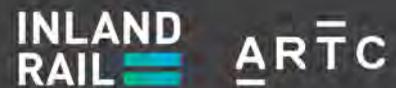
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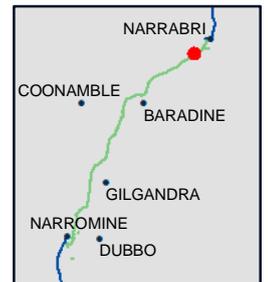
LEGEND

Structure type

- Residential
- Other
- Residential

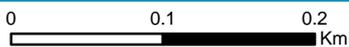
Noise level (dBA L

- Aeq 15 minute)
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

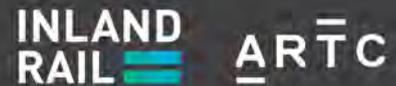


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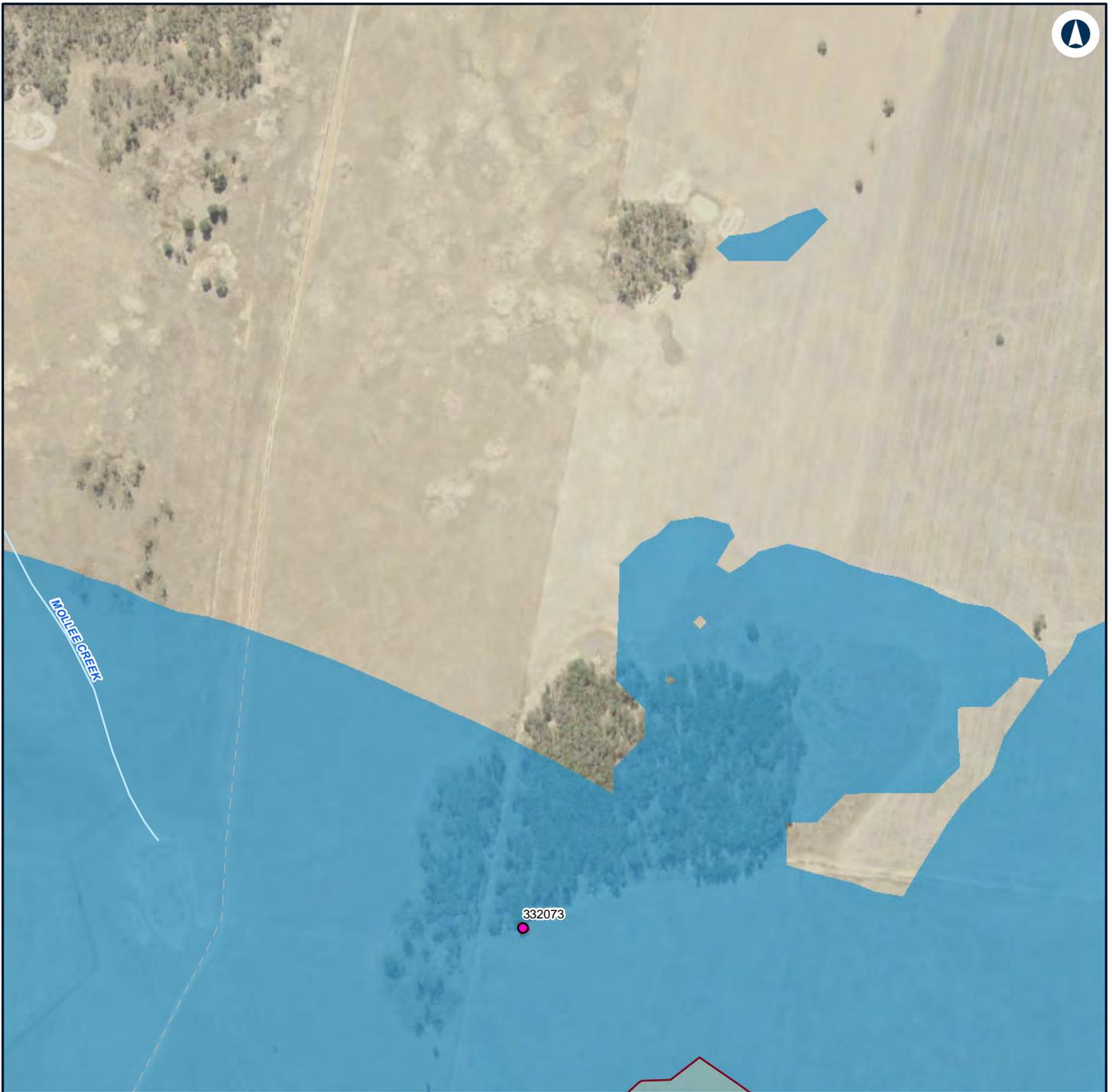
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LEGEND

Structure type

- Residential
- Residential

Noise level (dBA L

Aeq 15 minute)

- 30 - 35
- 35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



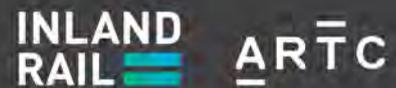
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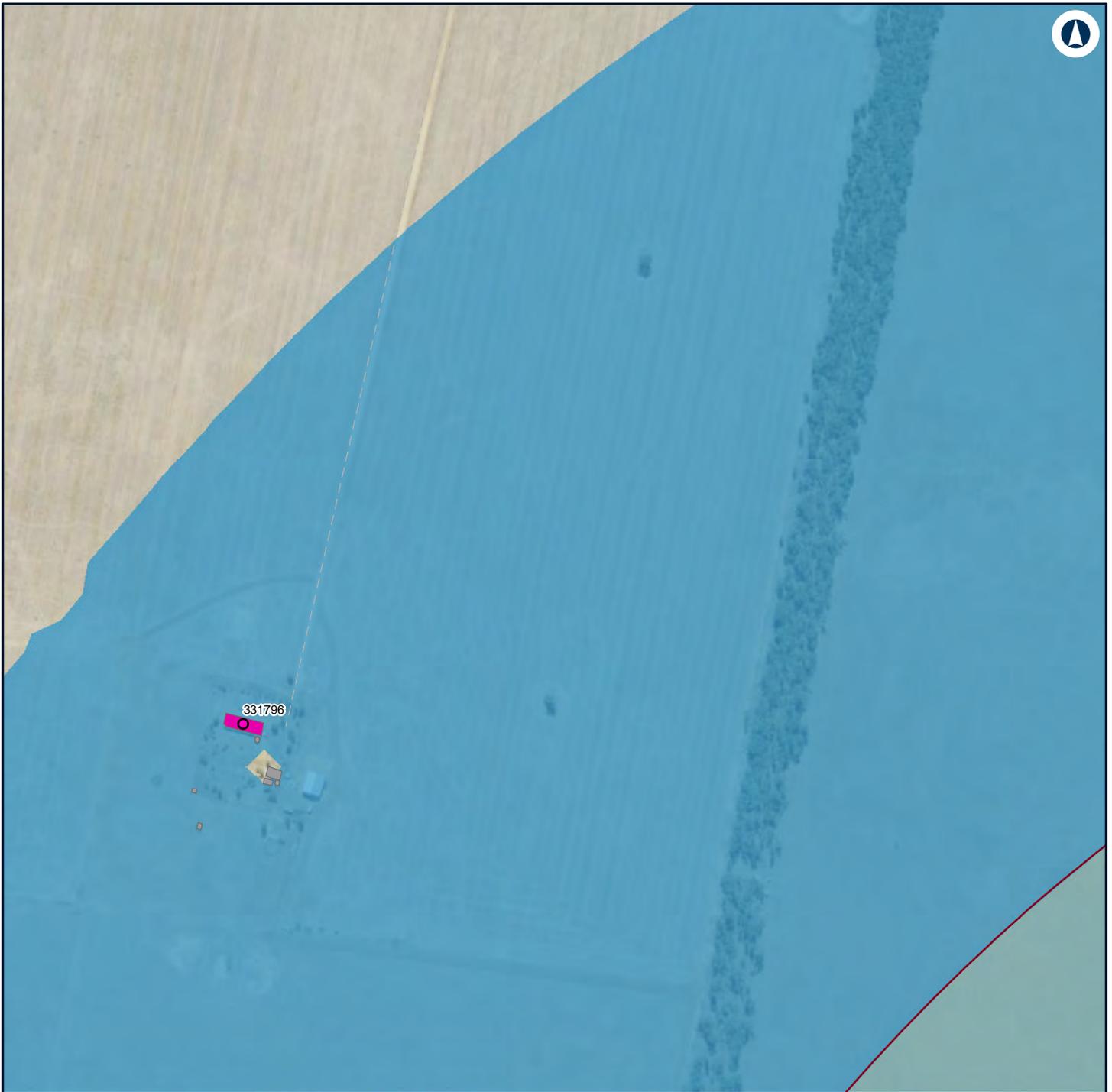
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LEGEND

- Structure type**
- Residential
- Other
- Residential
- Noise level (dBA L**
Aeq 15 minute)
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



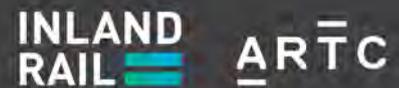
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LEGEND

- Structure type**
- 35 - 40
 - Residential
 - Other
 - Residential
- Noise level (dBA L**
Aeq 15 minute)
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



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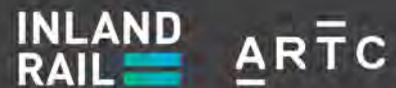
Date: 16/07/2020

Paper: A4

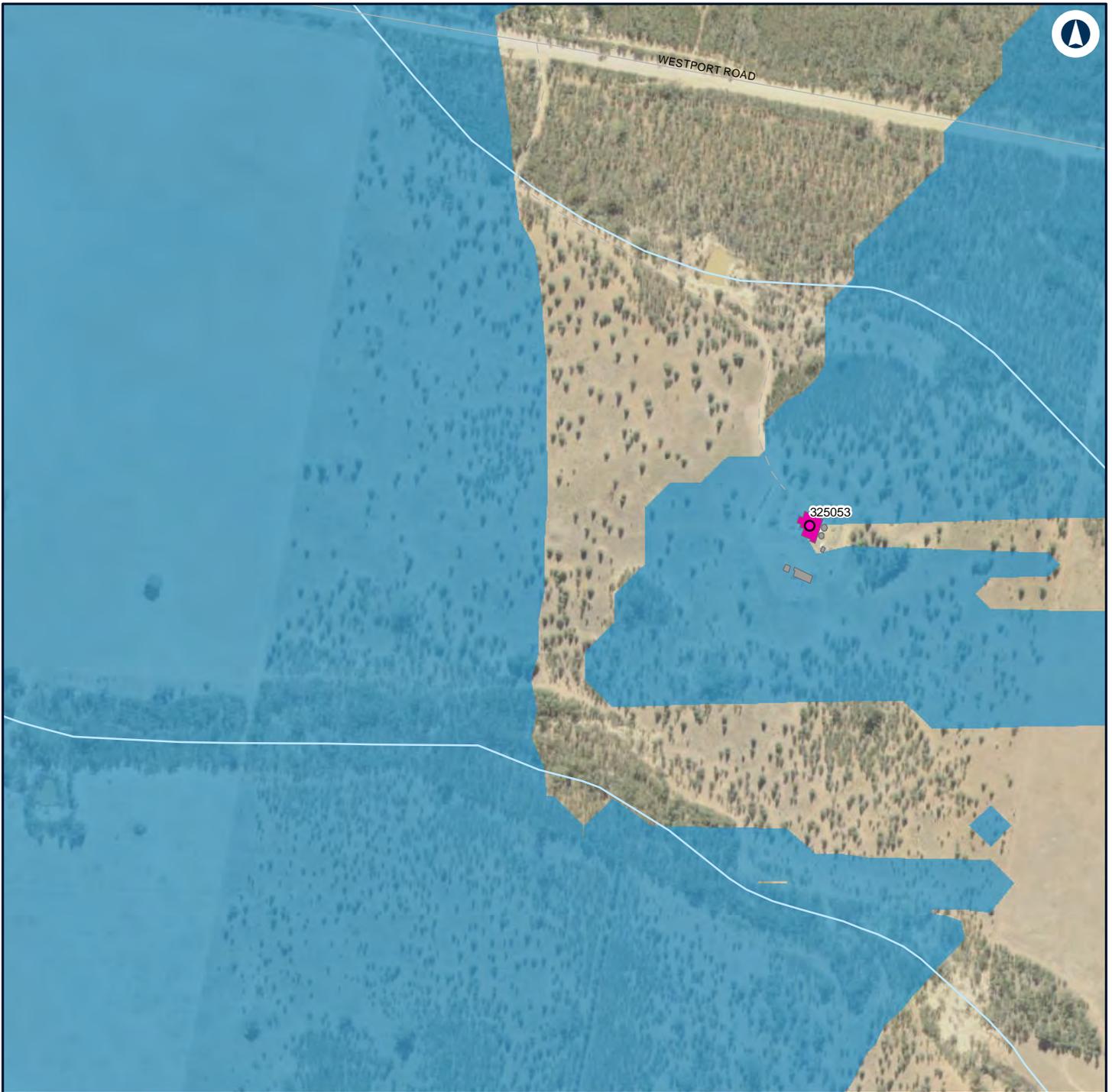
Author: GHD

Scale: 1:5,000

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LEGEND

Structure type

- Residential
- Other
- Residential

Noise level (dBA L

- Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



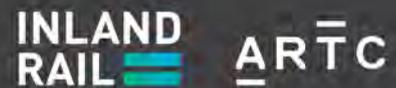
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LEGEND

- Structure type**
- 35 - 40
 - 40 - 45
 - Other
 - 45 - 50
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



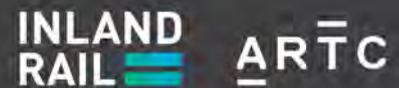
Coordinate System: GDA 1994 MGA Zone 55

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 Author: GHD Scale: 1:5,000

Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD



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LEGEND

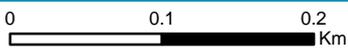
- Structure type**
- 35 - 40
 - Residential
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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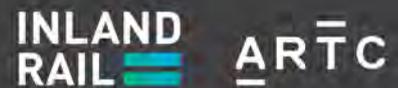
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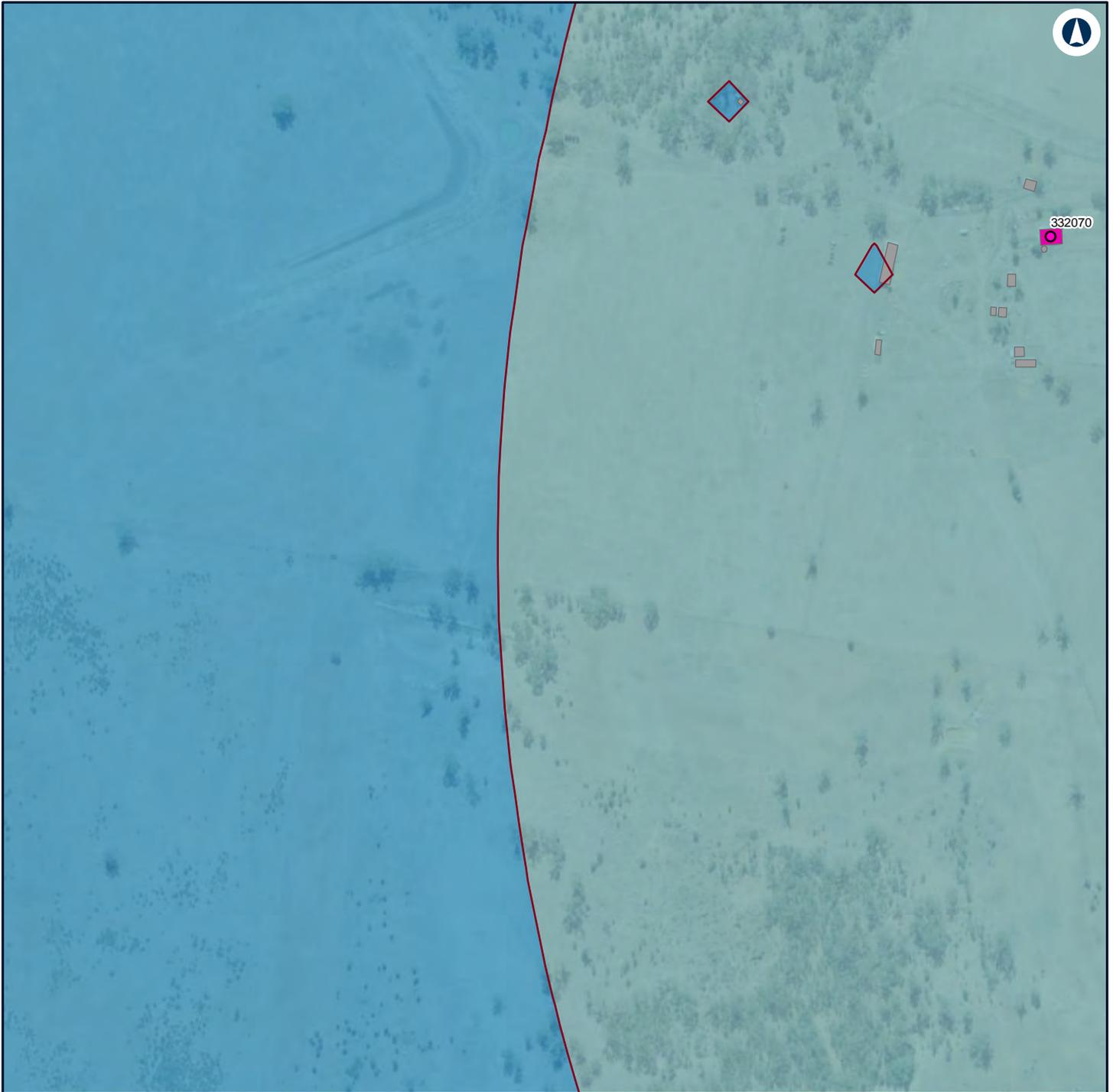
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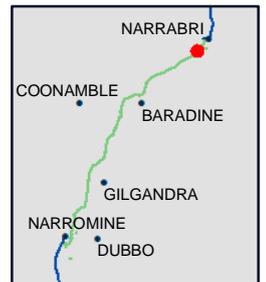


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LEGEND

- Structure type**
- 35 - 40
- Residential
- Other
- Residential
- Noise level (dBA L**
Aeq 15 minute)
- 30 - 35



0 0.1 0.2 Km

Coordinate System: GDA 1994 MGA Zone 55

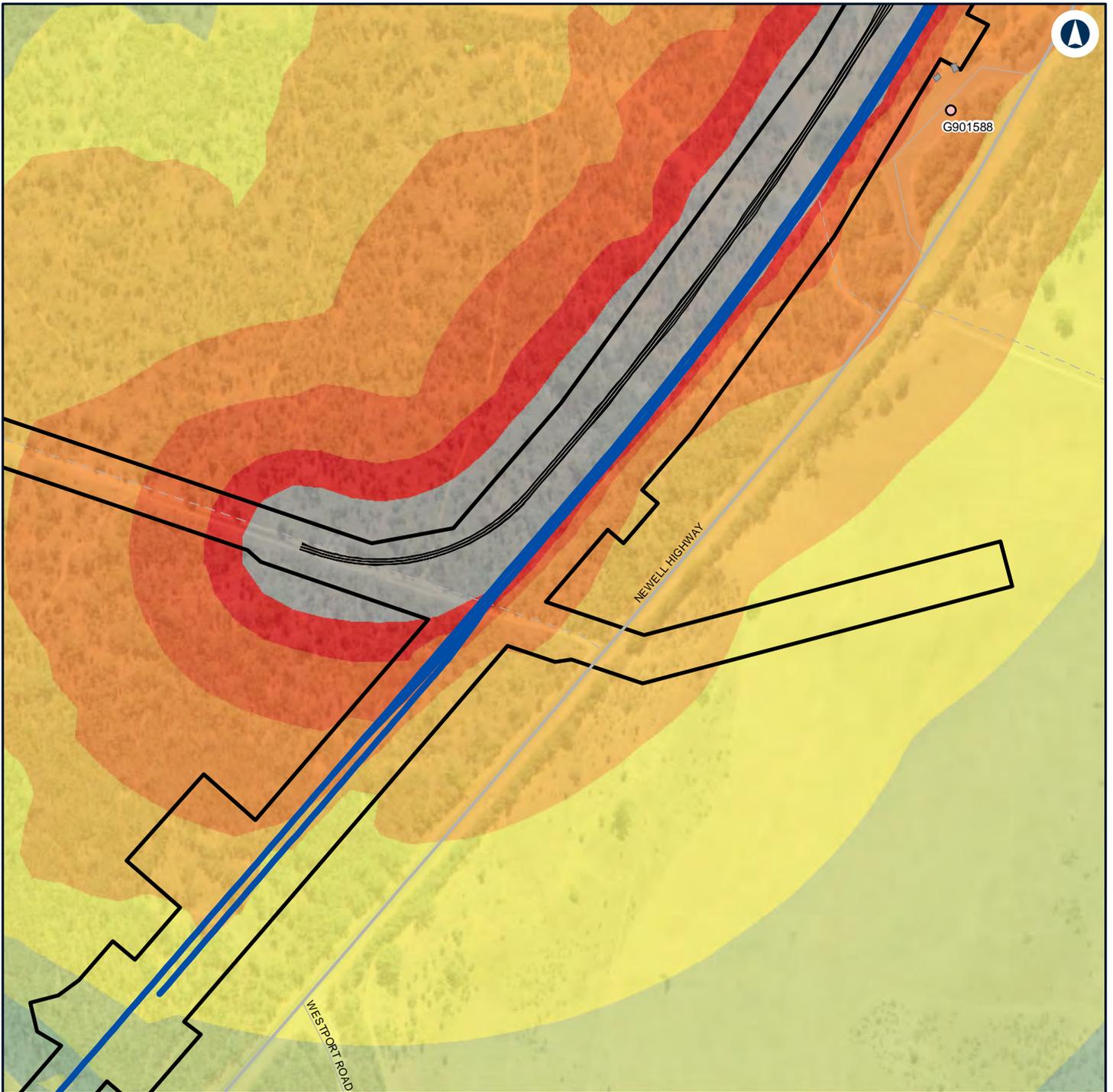
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LEGEND

- | | | |
|------------------------|--|---------|
| Alignment | Noise level (dBA L Aeq 15 minute) | 65 - 70 |
| Road design string | 40 - 45 | 70 - 75 |
| Construction footprint | 45 - 50 | > 75 |
| Structure type | 50 - 55 | |
| Passive recreation | 55 - 60 | |
| Other | 60 - 65 | |



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



Coordinate System: GDA 1994 MGA Zone 55

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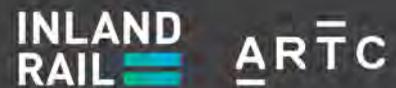
Date: 16/07/2020

Paper: A4

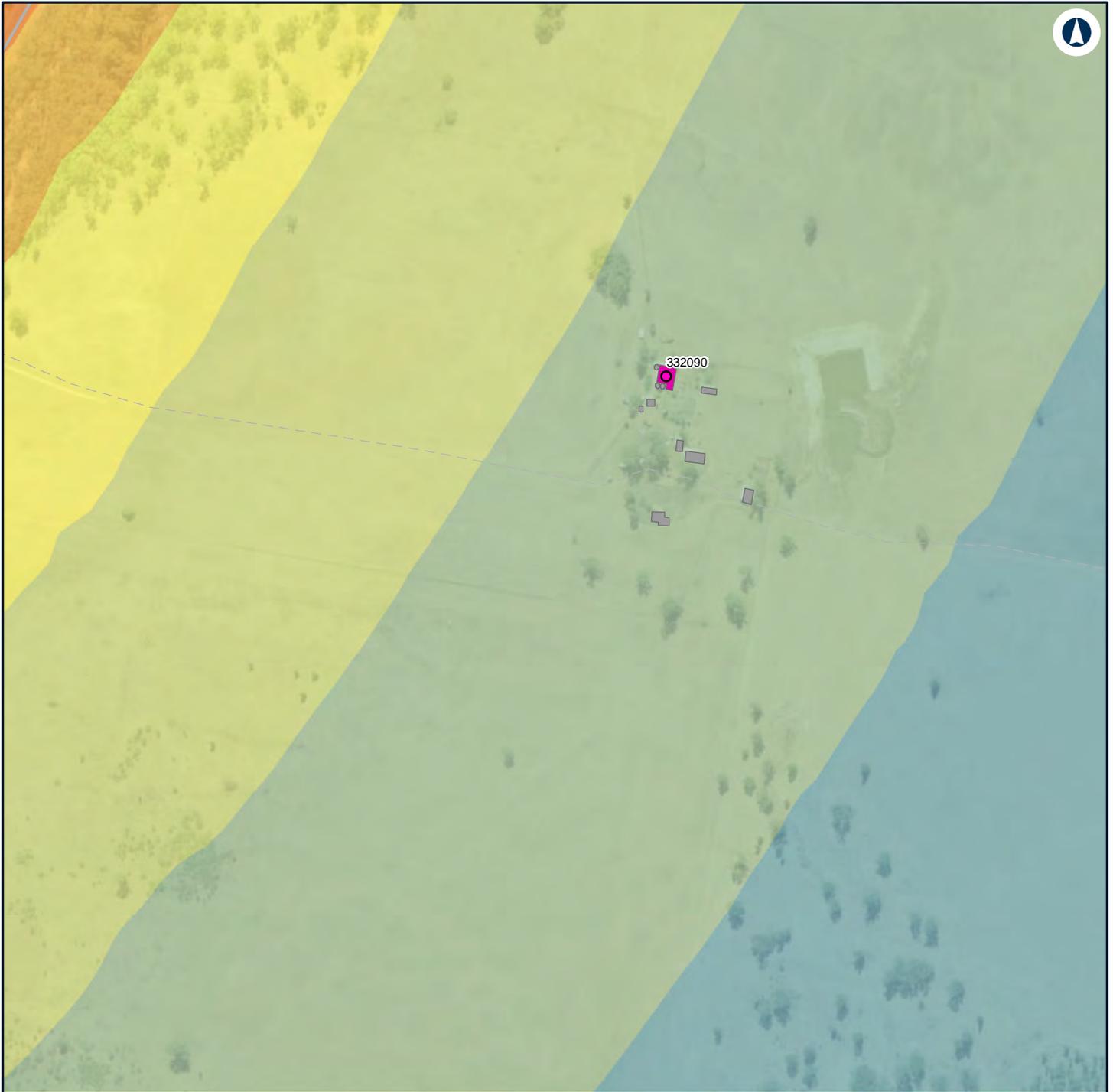
Author: GHD

Scale: 1:5,000

Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD



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LEGEND

Structure type			
Residential	40 - 45	45 - 50	
Other	50 - 55	55 - 60	
Residential	60 - 65		
Noise level (dBA L Aeq 15 minute)			
35 - 40			



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 238 of 304



Coordinate System: GDA 1994 MGA Zone 55

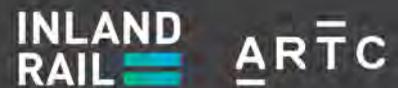
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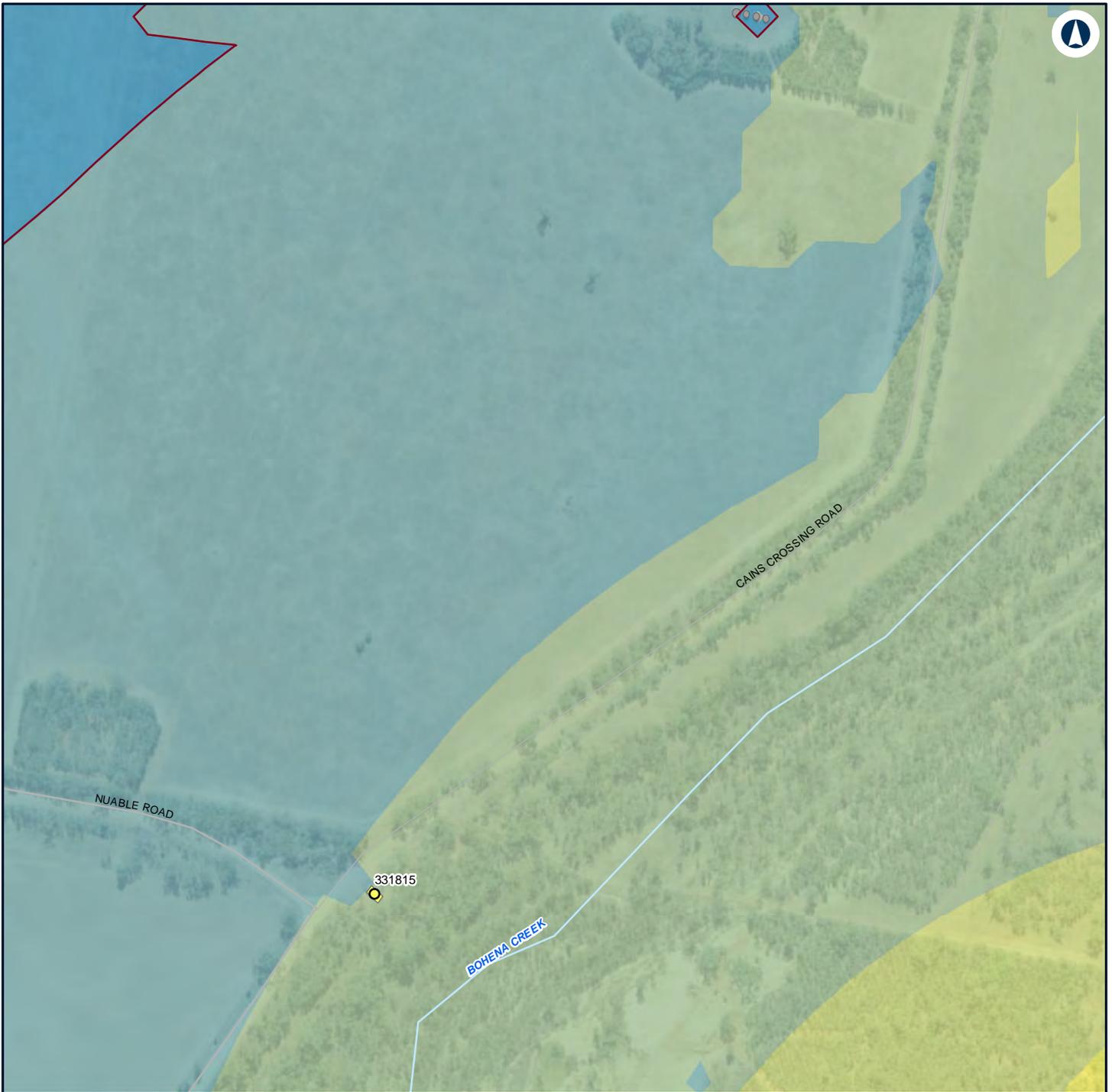
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Scale: 1:5,000

Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD



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LEGEND

Structure type		35 - 40
Community		40 - 45
Community		45 - 50
Other		50 - 55

Noise level (dBA L

Aeq 15 minute)
 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



Coordinate System: GDA 1994 MGA Zone 55

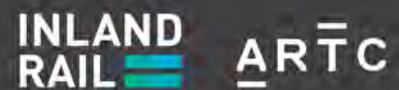
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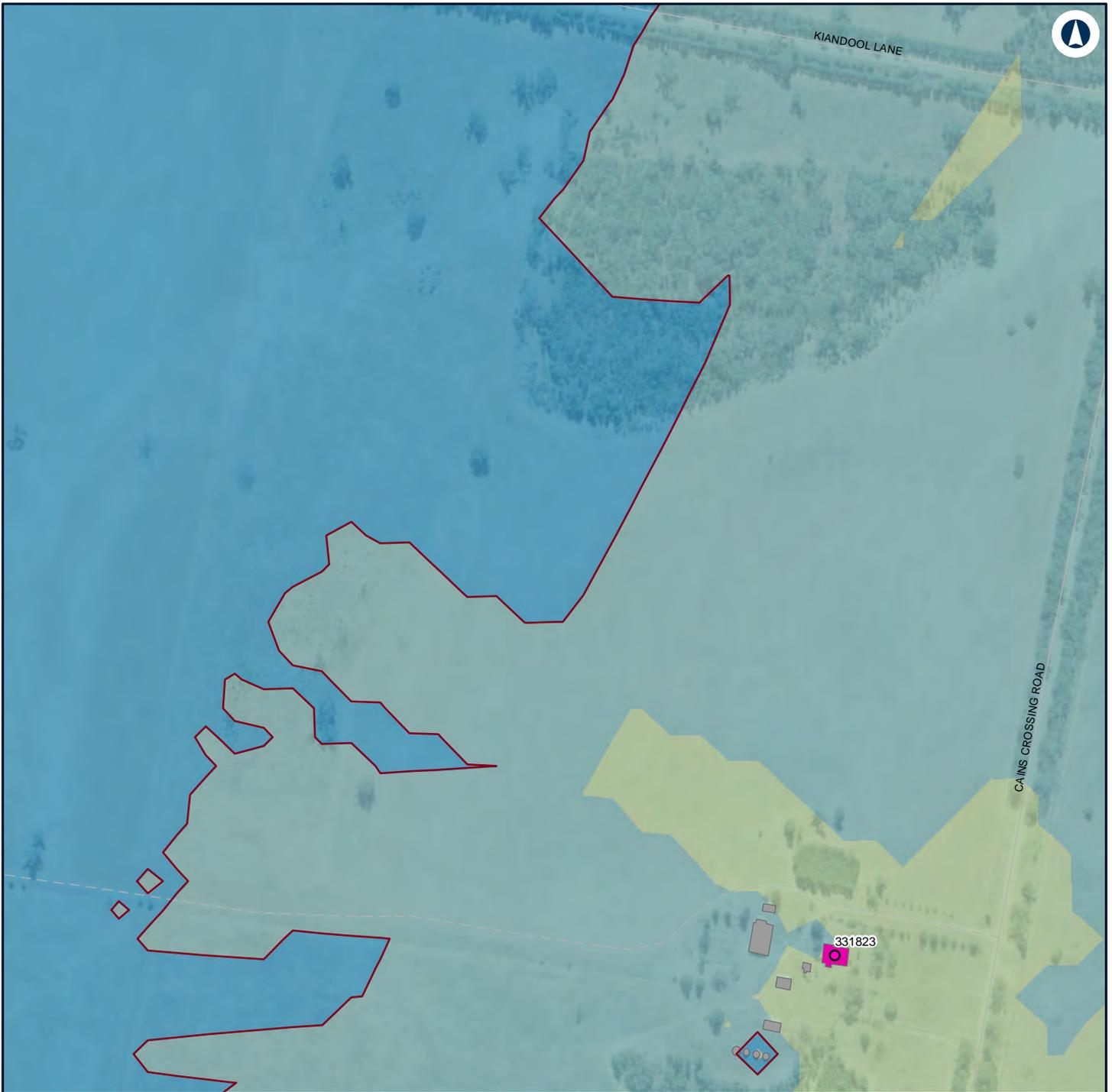
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LEGEND

- Structure type**
- 35 - 40
 - 40 - 45
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

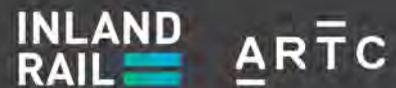


Coordinate System: GDA 1994 MGA Zone 55

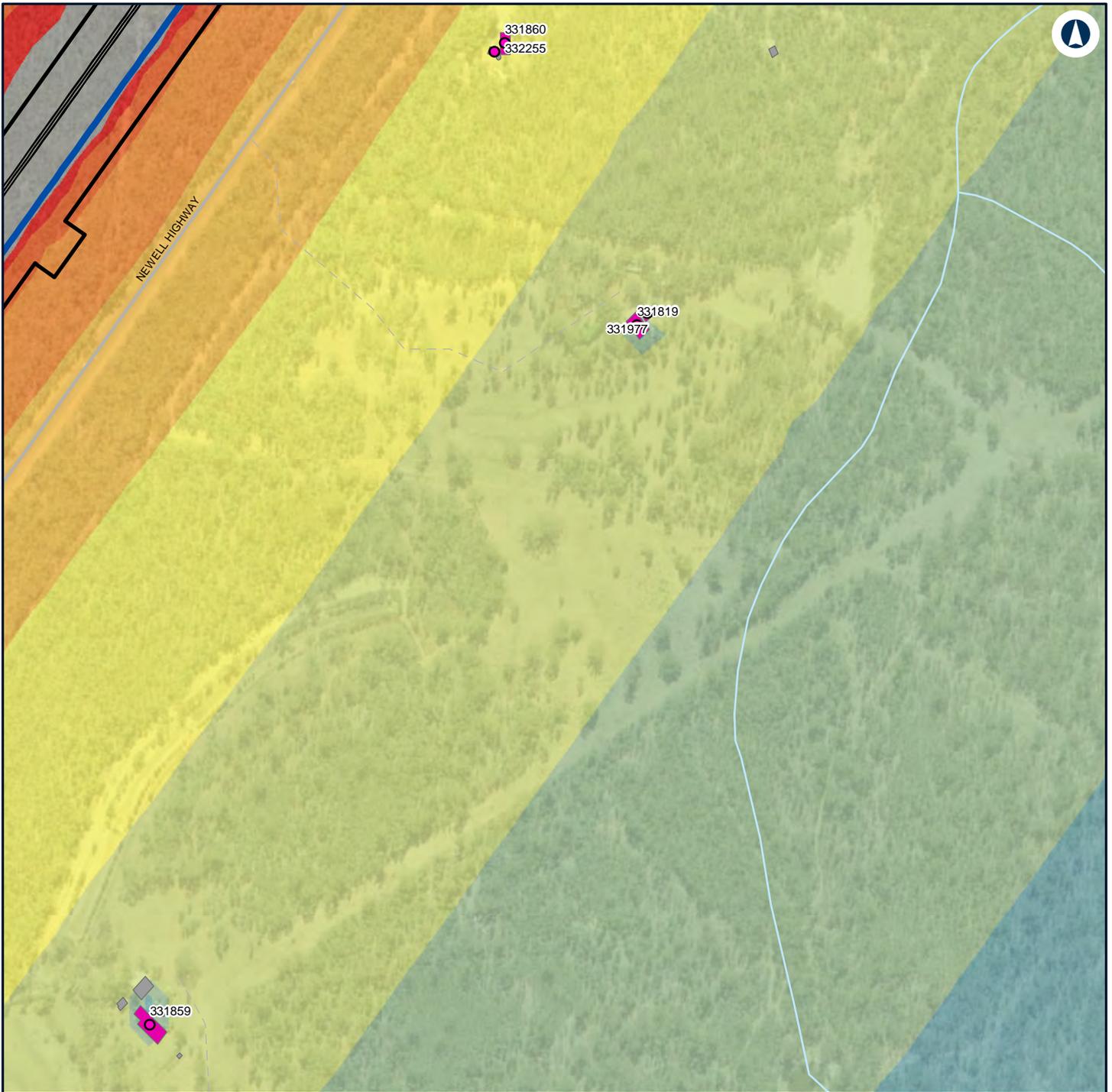
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LEGEND

- Alignment
- Road design string
- Construction footprint
- Structure type**
- Residential
- Other
- Residential
- Noise level (dBA L Aeq 15 minute)**
- 35 - 40
- 40 - 45
- 45 - 50
- 50 - 55
- 55 - 60
- 60 - 65
- 65 - 70
- 70 - 75
- > 75



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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Coordinate System: GDA 1994 MGA Zone 55

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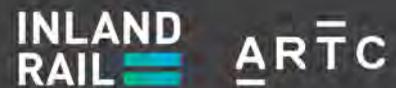
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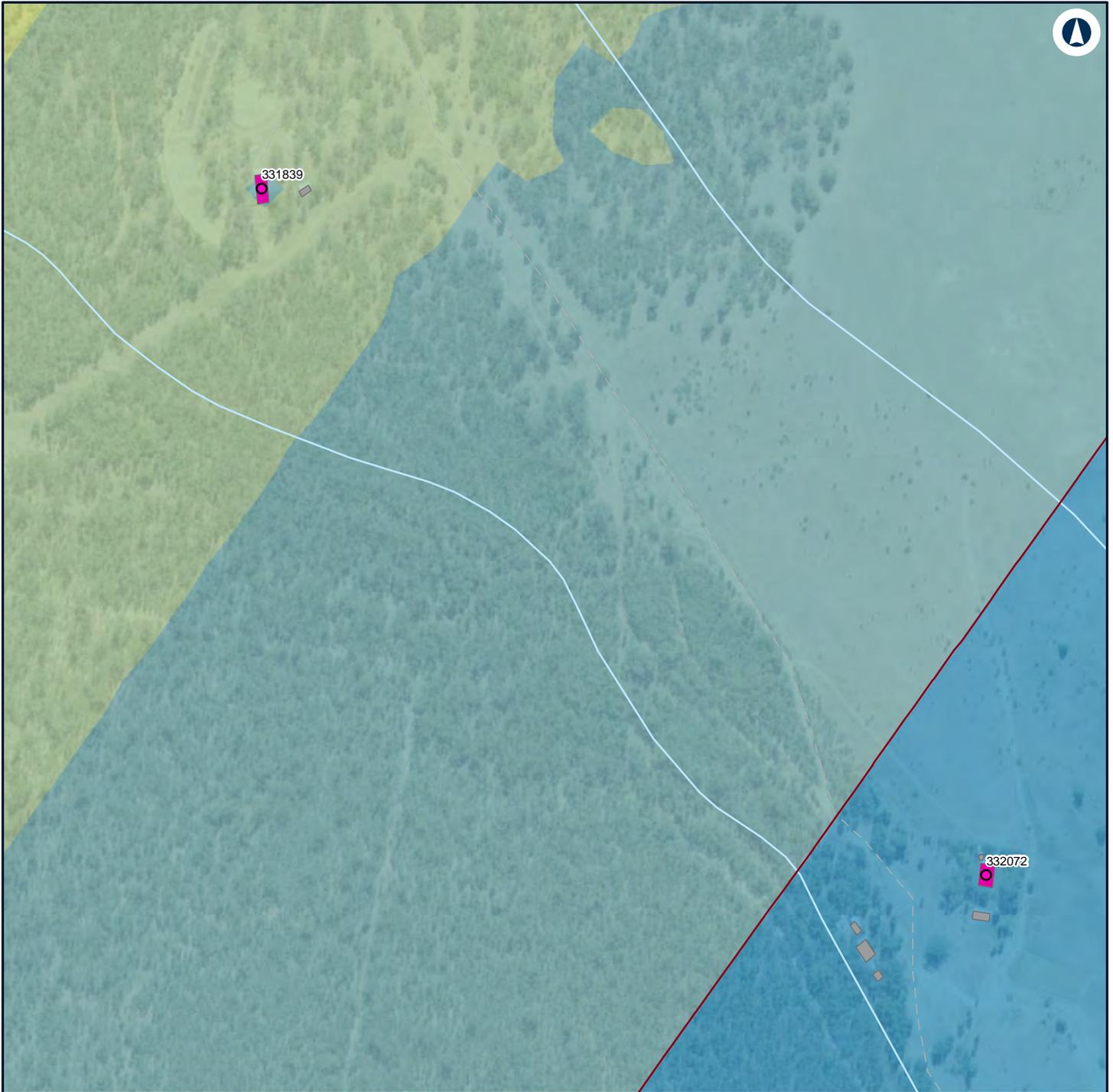
Author: GHD

Scale: 1:5,000

Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD



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LEGEND

- Structure type**
- 35 - 40
 - 40 - 45
 - Other
 - 45 - 50
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



0 0.1 0.2 Km

Coordinate System: GDA 1994 MGA Zone 55

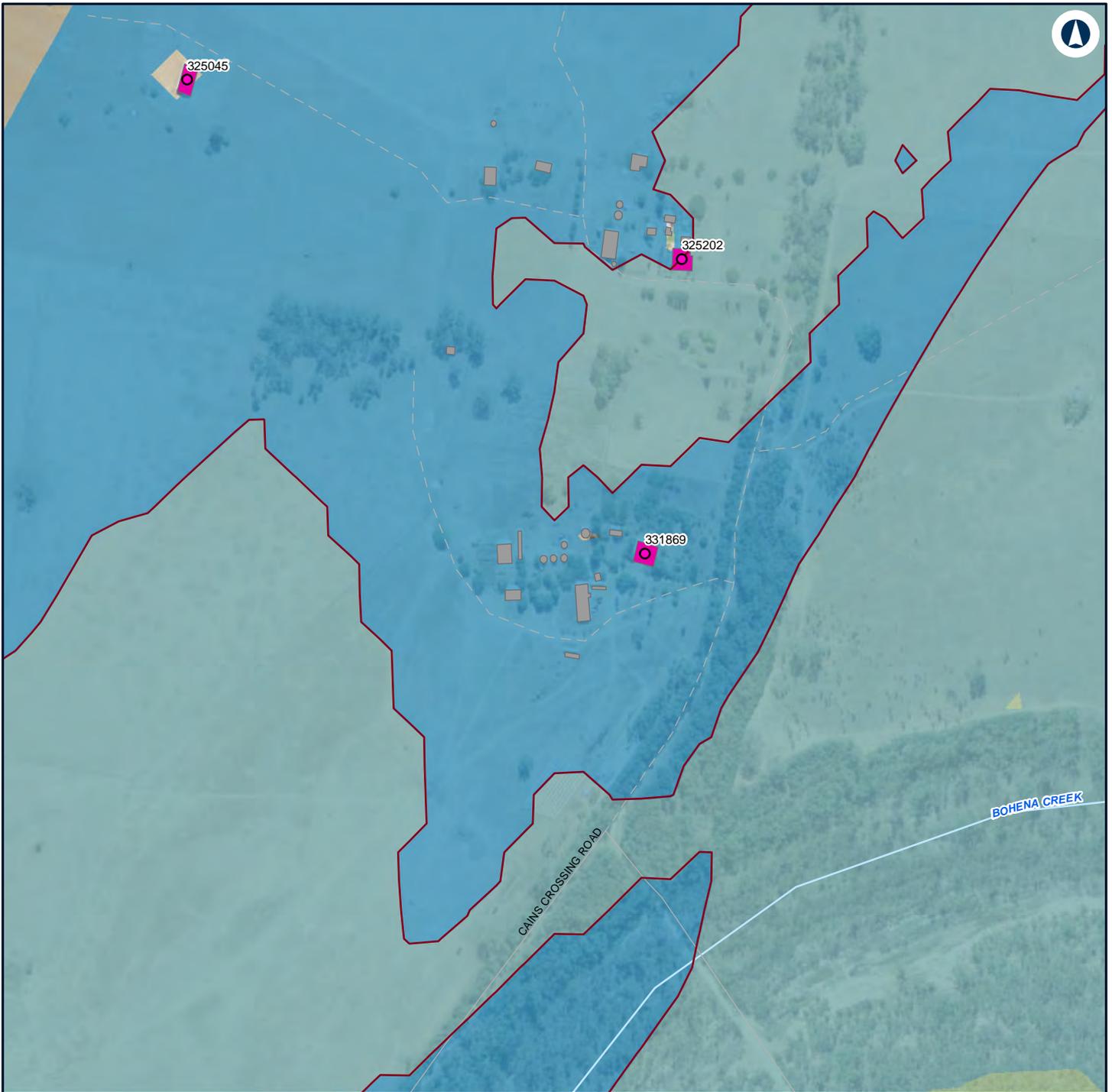
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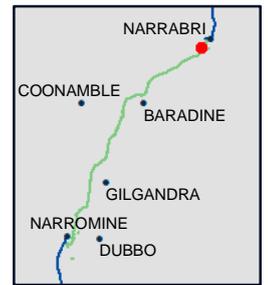
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LEGEND

- Structure type**
- 35 - 40
 - 40 - 45
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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Coordinate System: GDA 1994 MGA Zone 55

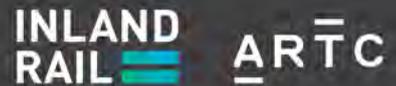
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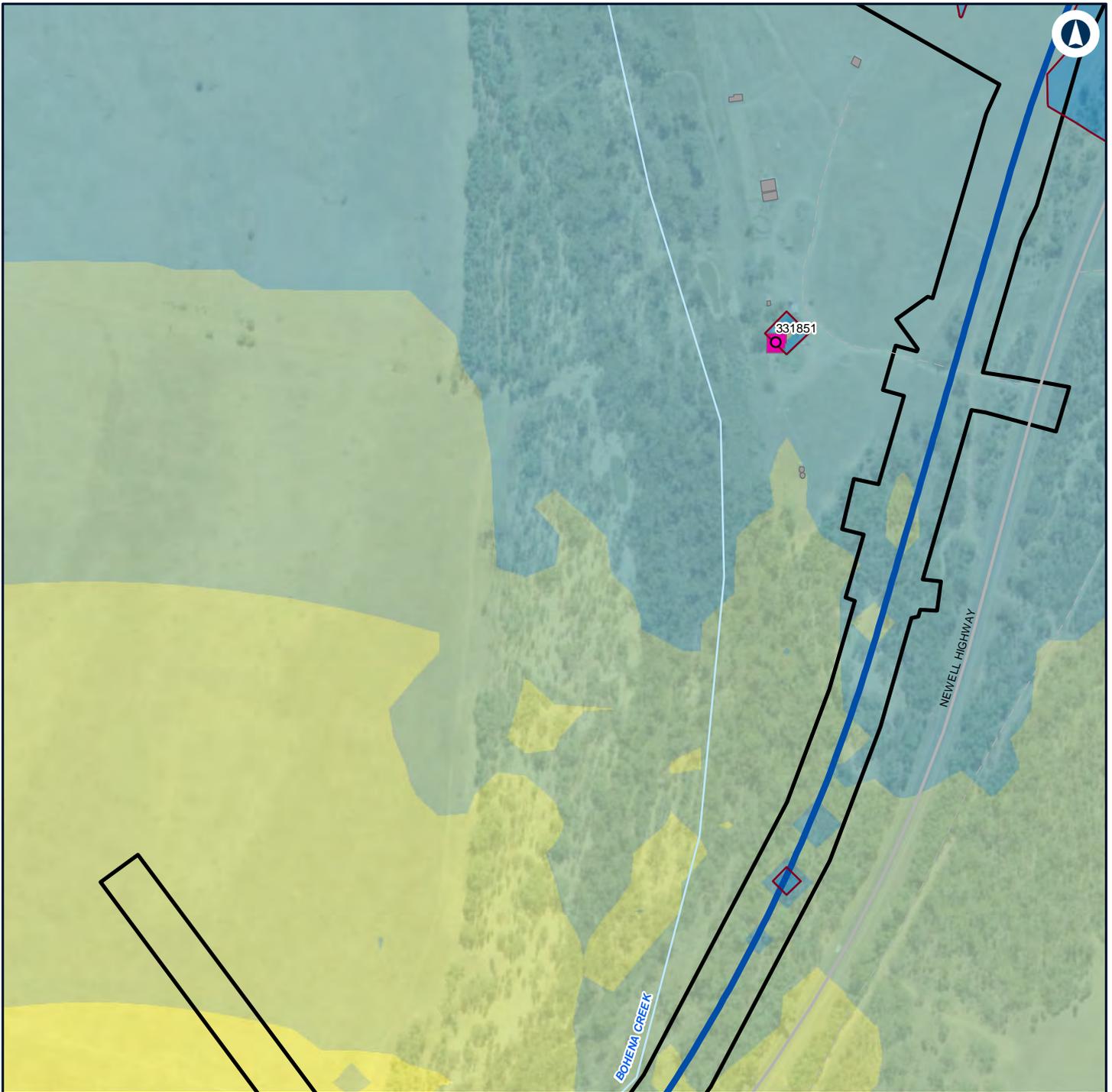
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LEGEND

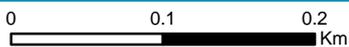
- Alignment
 - Construction footprint
 - Structure type**
 - Residential
 - Other
 - Residential
- | Noise level (dBA L
Aeq 15 minute) | |
|--------------------------------------|---------|
| | 30 - 35 |
| | 35 - 40 |
| | 40 - 45 |
| | 45 - 50 |
| | 50 - 55 |



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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Coordinate System: GDA 1994 MGA Zone 55

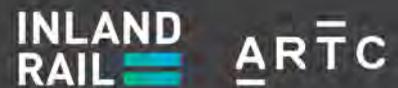
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LEGEND

- Structure type**
- 35 - 40
 - Residential
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI Construction noise contours, Scenario ROAD03 - Road Earthworks Appendix G - Page 245 of 304

0 0.1 0.2 Km

Coordinate System: GDA 1994 MGA Zone 55

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LEGEND

Structure type

- Residential
- Other
- Residential

Noise level (dBA L

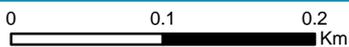
Aeq 15 minute)

- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



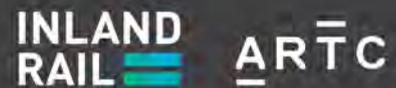
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LEGEND

- Structure type**
- Residential
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35
 - 35 - 40
 - 40 - 45



0 0.1 0.2 Km

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LEGEND

- Structure type**
- 35 - 40
 - Residential
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 248 of 304



Coordinate System: GDA 1994 MGA Zone 55

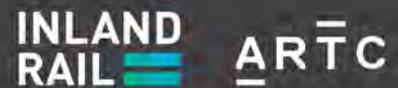
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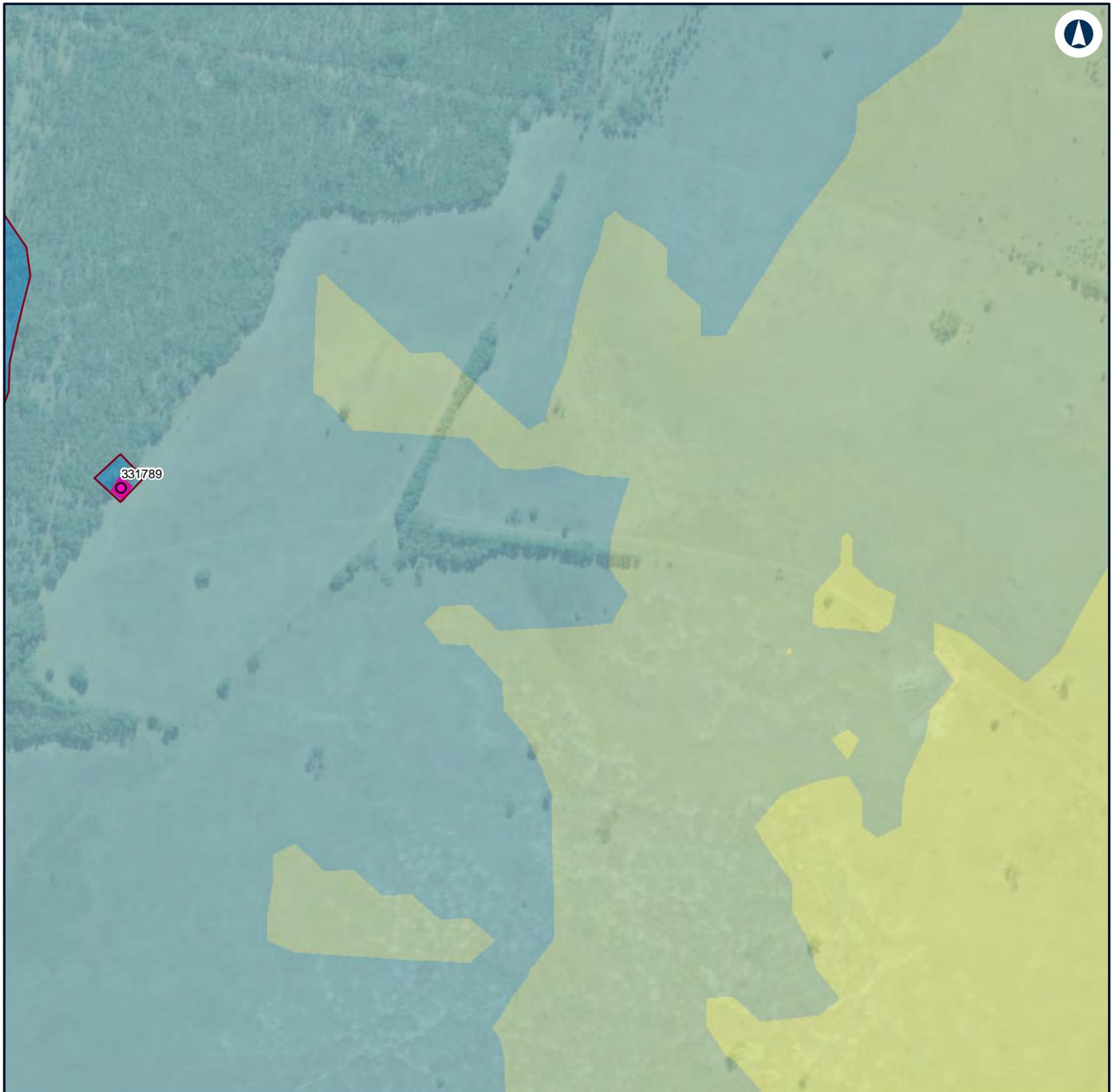
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LEGEND

- Structure type**
- 35 - 40
 - 40 - 45
 - Other
 - 45 - 50
 - Residential

Noise level (dBA L

- Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

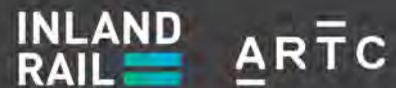


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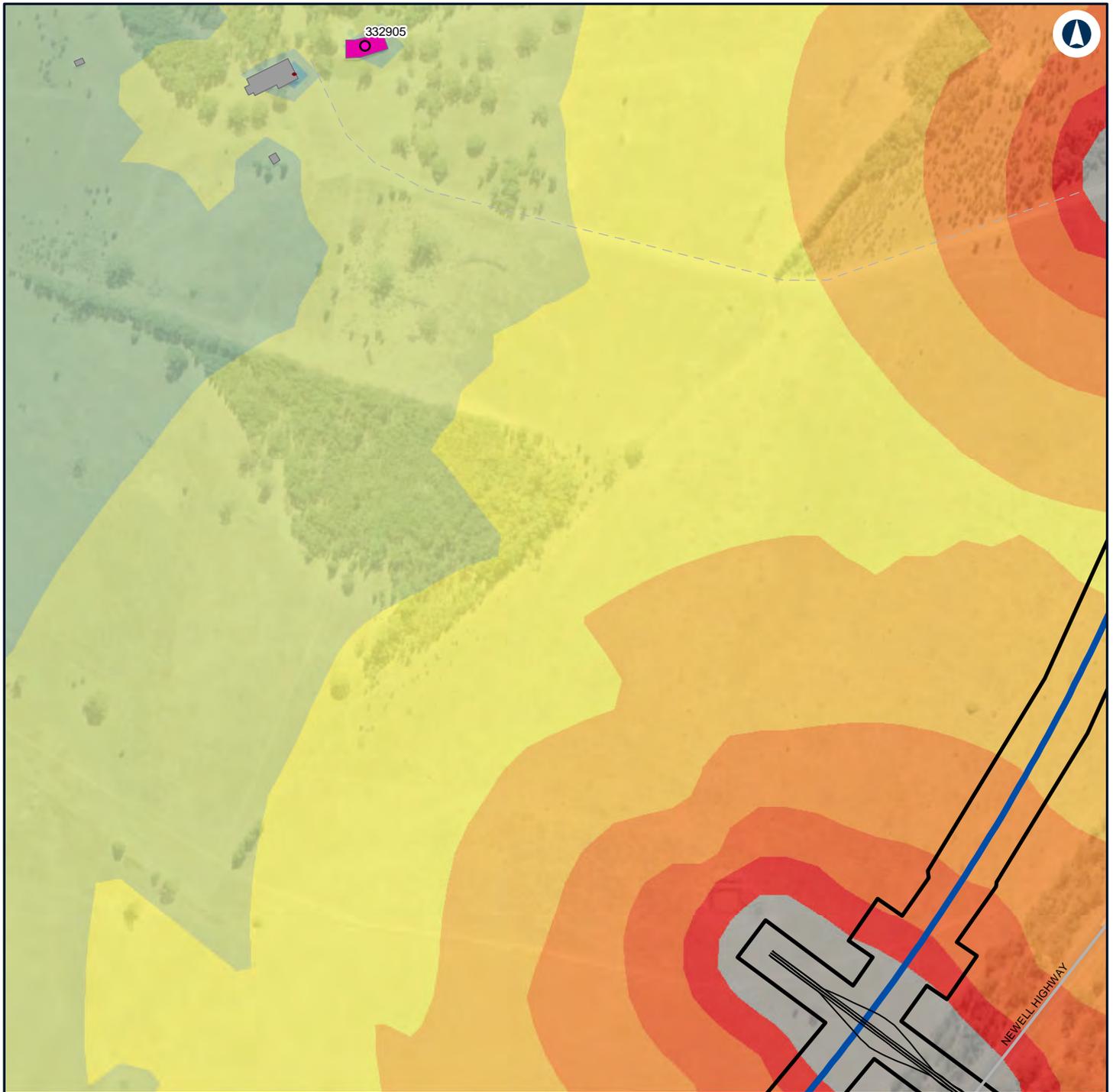
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LEGEND

- | | | |
|------------------------|---------------------------|---------|
| Alignment | Residential | 55 - 60 |
| Road design string | Noise level (dBA L | 60 - 65 |
| Construction footprint | Aeq 15 minute) | 65 - 70 |
| Structure type | 35 - 40 | 70 - 75 |
| Residential | 40 - 45 | > 75 |
| Other | 45 - 50 | |
| | 50 - 55 | |



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 250 of 304



Coordinate System: GDA 1994 MGA Zone 55

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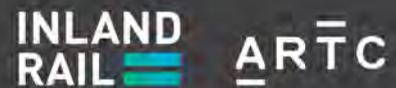
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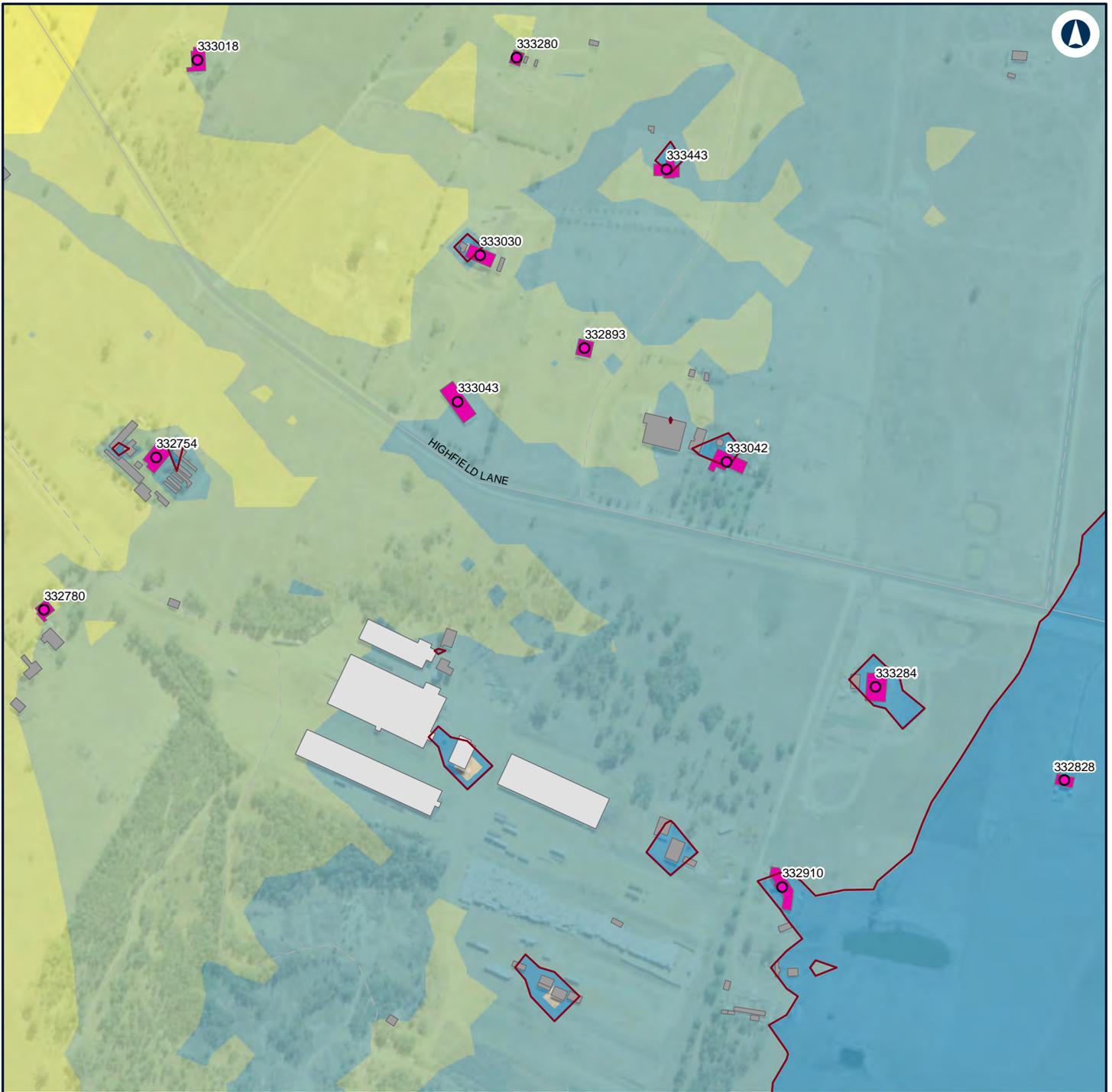
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LEGEND

Structure type	Noise level (dBA L Aeq 15 minute)
Residential	30 - 35
Commercial/ Industrial	35 - 40
Other	40 - 45
Residential	45 - 50
	50 - 55



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



Coordinate System: GDA 1994 MGA Zone 55

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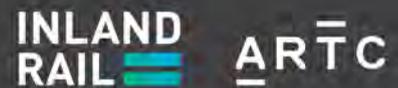
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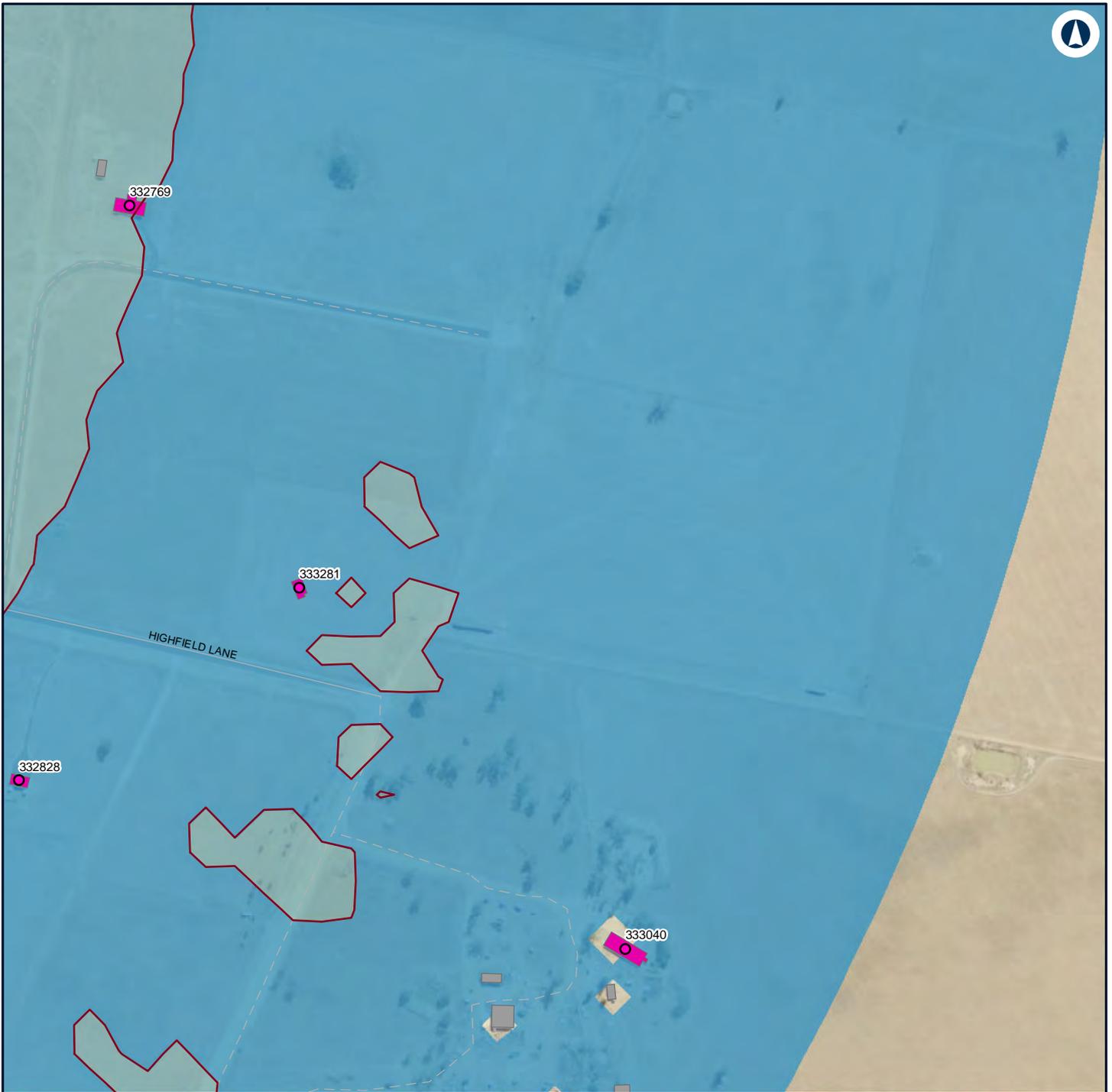
Author: GHD

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LEGEND

- Structure type**
- 35 - 40
 - Residential
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



0 0.1 0.2 Km

Coordinate System: GDA 1994 MGA Zone 55

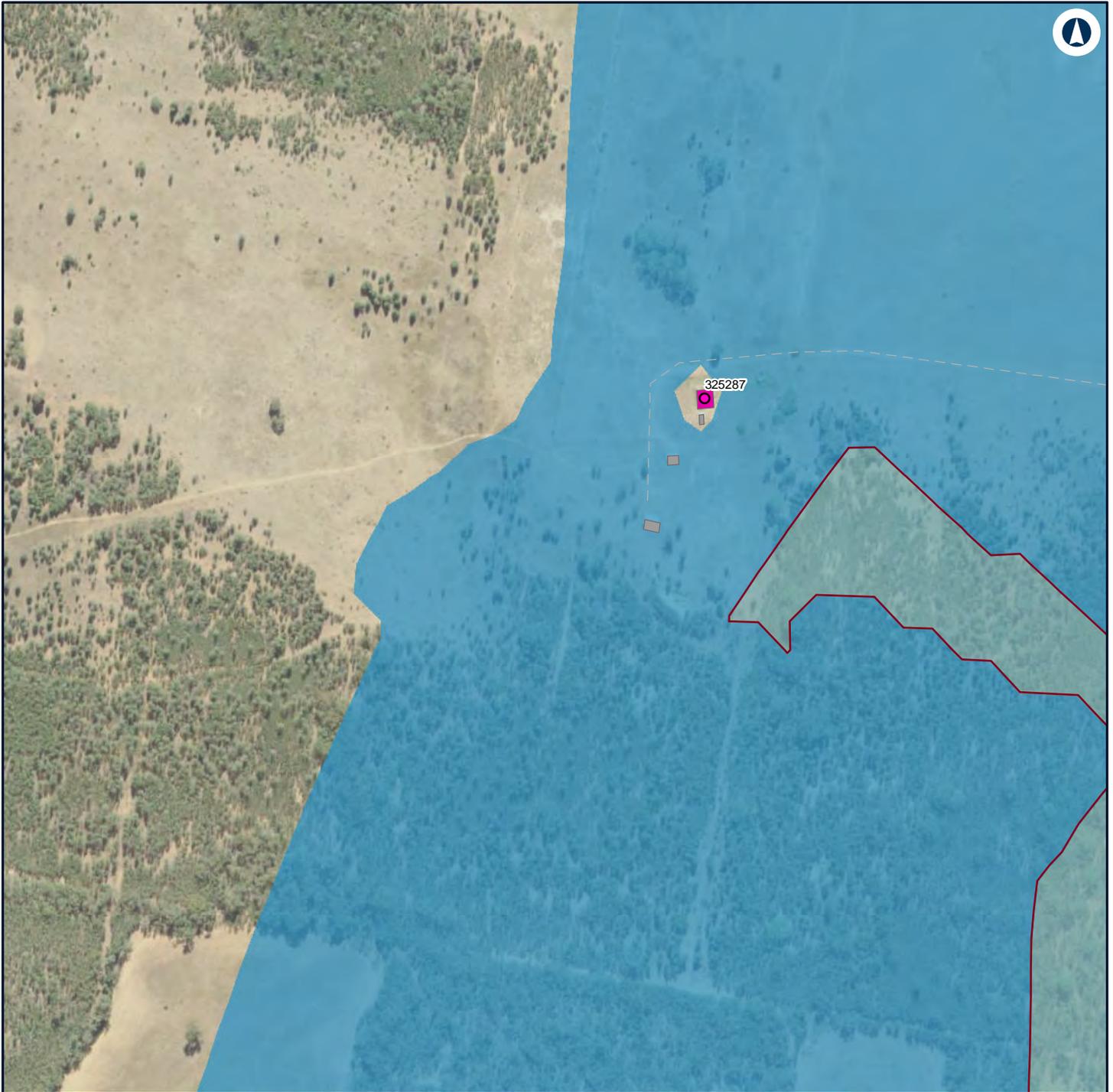
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LEGEND

- Structure type**
- 35 - 40
 - Residential
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 253 of 304

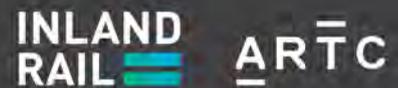


Coordinate System: GDA 1994 MGA Zone 55

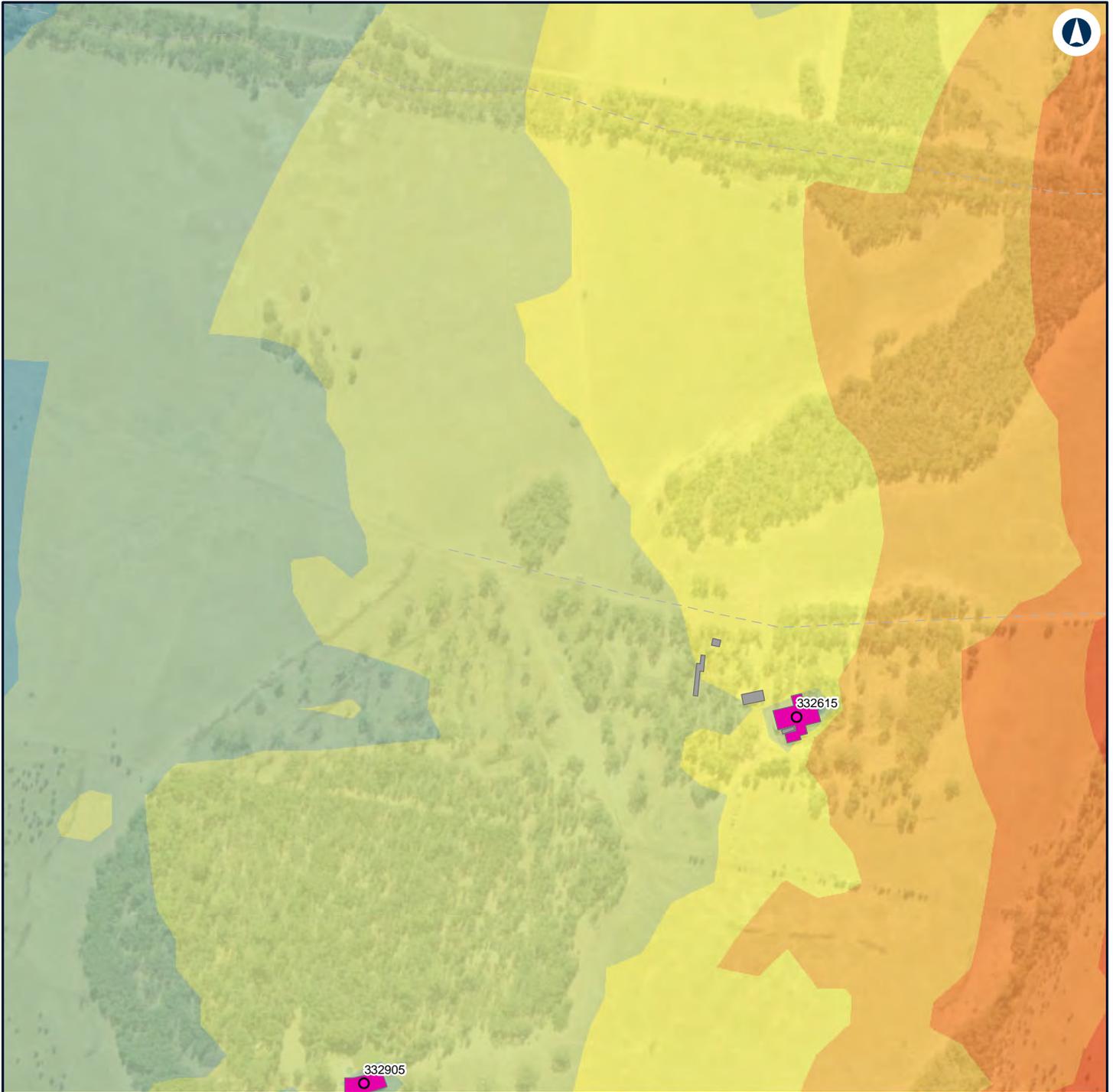
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LEGEND

Structure type			
● Residential	■ 40 - 45	■ 45 - 50	■ 50 - 55
■ Other	■ 55 - 60	■ 60 - 65	■ 65 - 70
■ Residential	■ 35 - 40		
Noise level (dBA L Aeq 15 minute)			



0 0.1 0.2 Km

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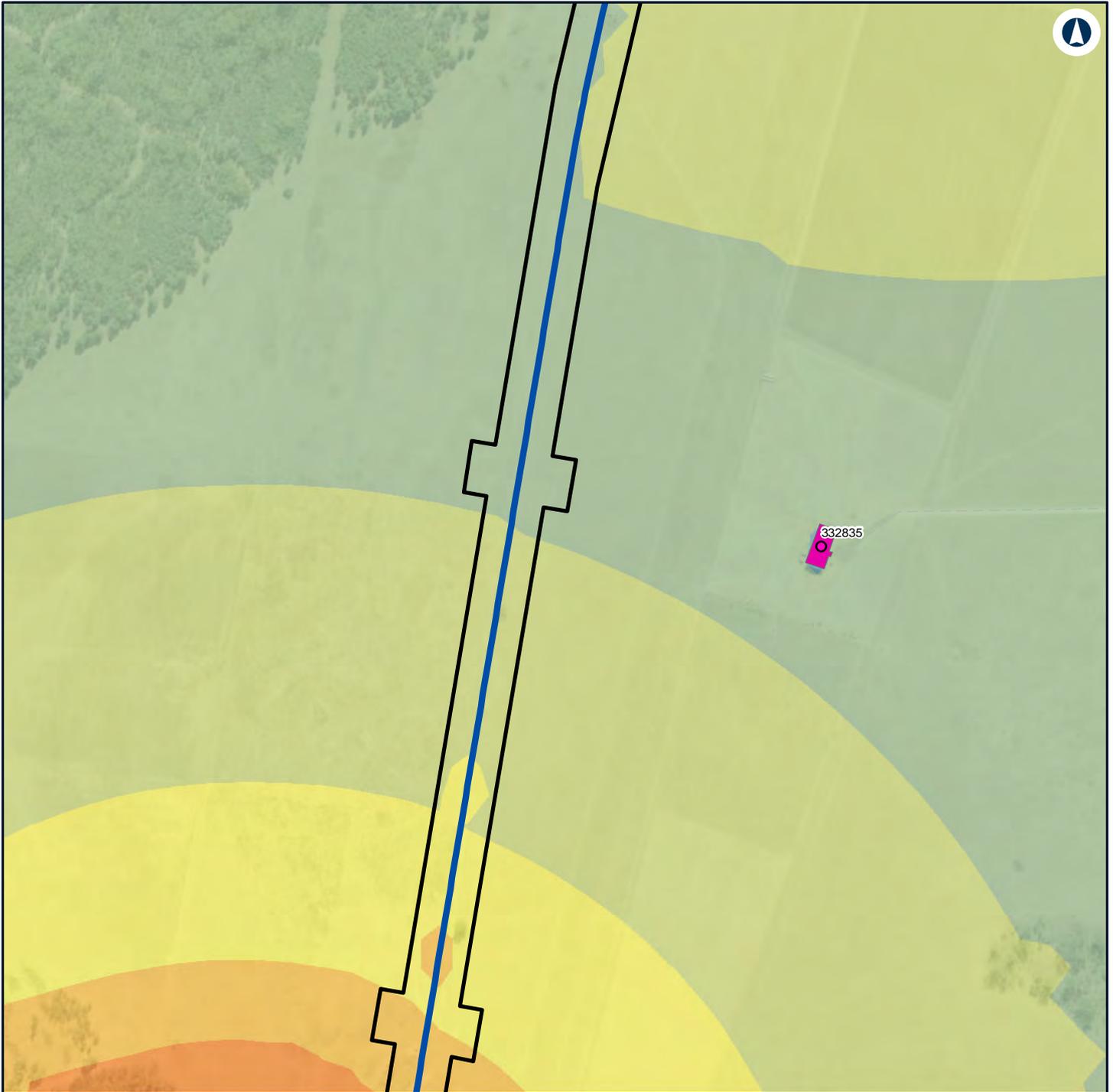
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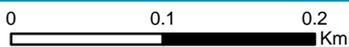
LEGEND

- Alignment
 - Construction footprint
 - Structure type**
 - Residential
 - Residential
- | | |
|---|--|
| Noise level (dBA L | 60 - 65 |
| Aeq 15 minute) | |
| 35 - 40 | |
| 40 - 45 | |
| 45 - 50 | |
| 50 - 55 | |
| 55 - 60 | |



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



Coordinate System: GDA 1994 MGA Zone 55

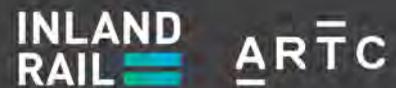
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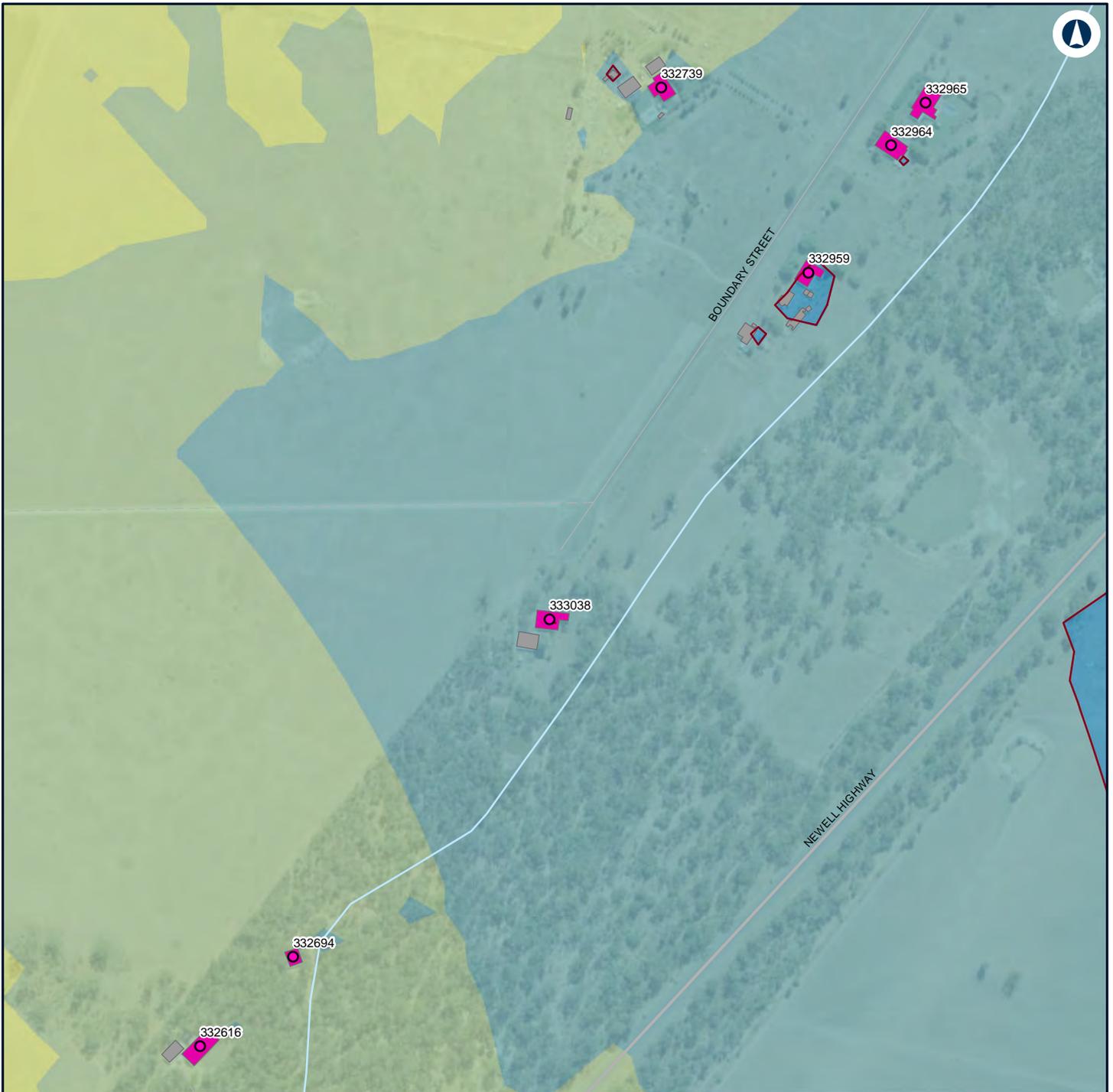
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LEGEND

- Structure type**
- 35 - 40
 - 40 - 45
 - Other
 - 45 - 50
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



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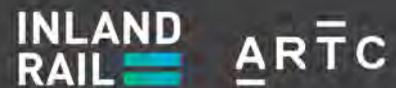
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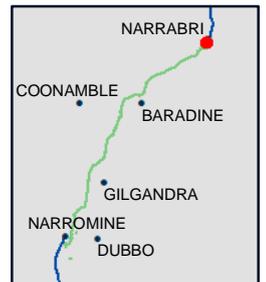


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LEGEND

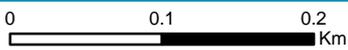
- Structure type**
- 35 - 40
 - Residential
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 257 of 304



Coordinate System: GDA 1994 MGA Zone 55

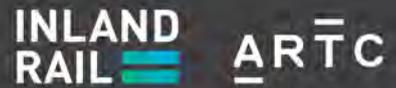
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LEGEND

Structure type

- Residential
- Other
- Residential

Noise level (dBA L

Aeq 15 minute)

- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



Coordinate System: GDA 1994 MGA Zone 55

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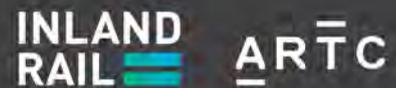
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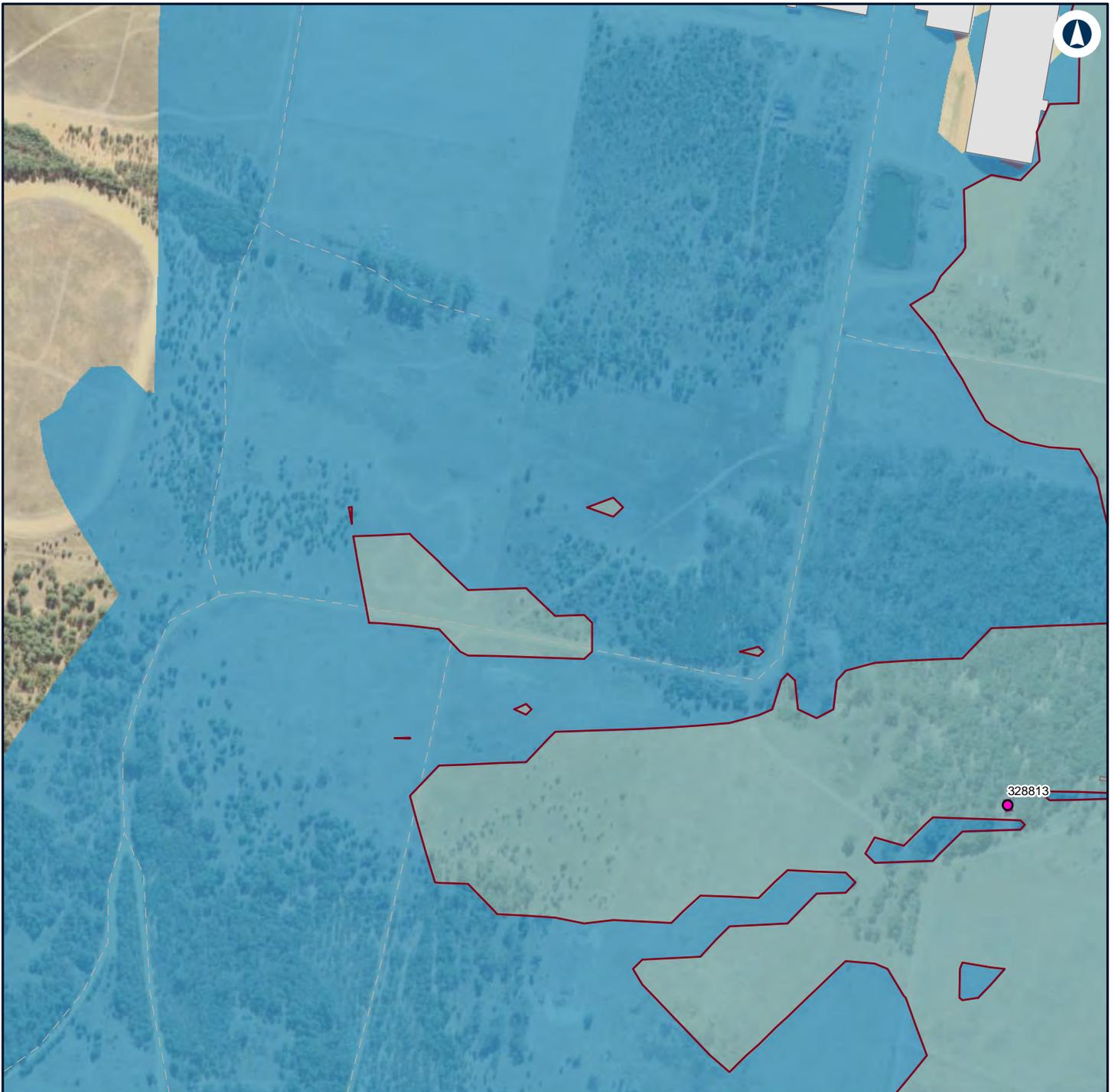
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LEGEND

Structure type	Noise level (dBA L Aeq 15 minute)
Residential	30 - 35
Commercial/ Industrial	35 - 40
Other	
Residential	



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 259 of 304



Coordinate System: GDA 1994 MGA Zone 55

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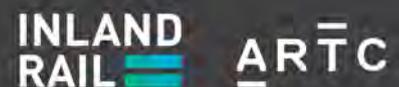
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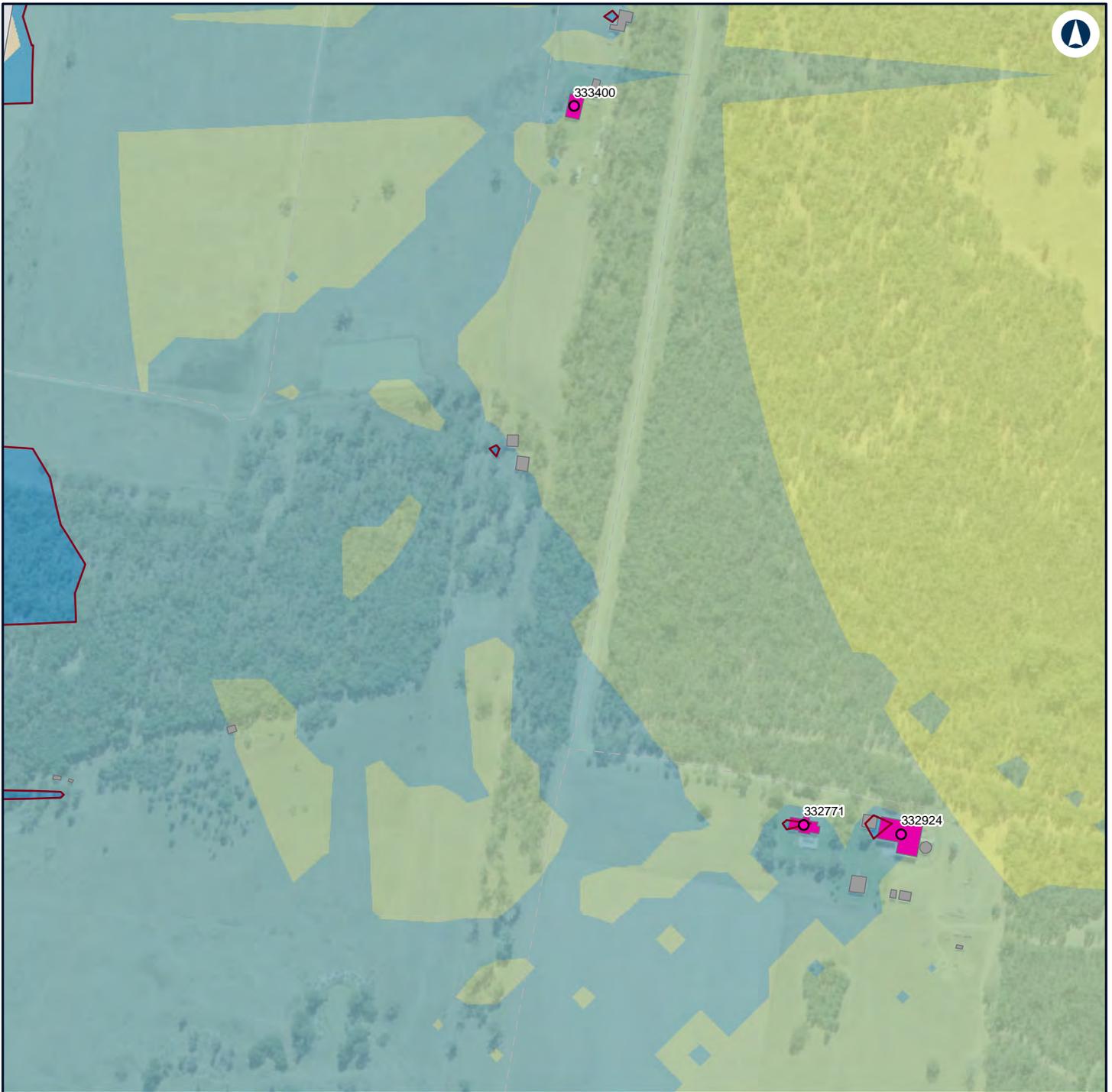
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LEGEND

Structure type	Noise level (dBA L Aeq 15 minute)
Residential	30 - 35
Commercial/ Industrial	35 - 40
Other	40 - 45
Residential	45 - 50



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



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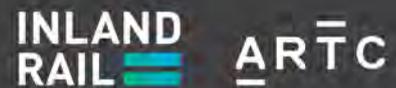
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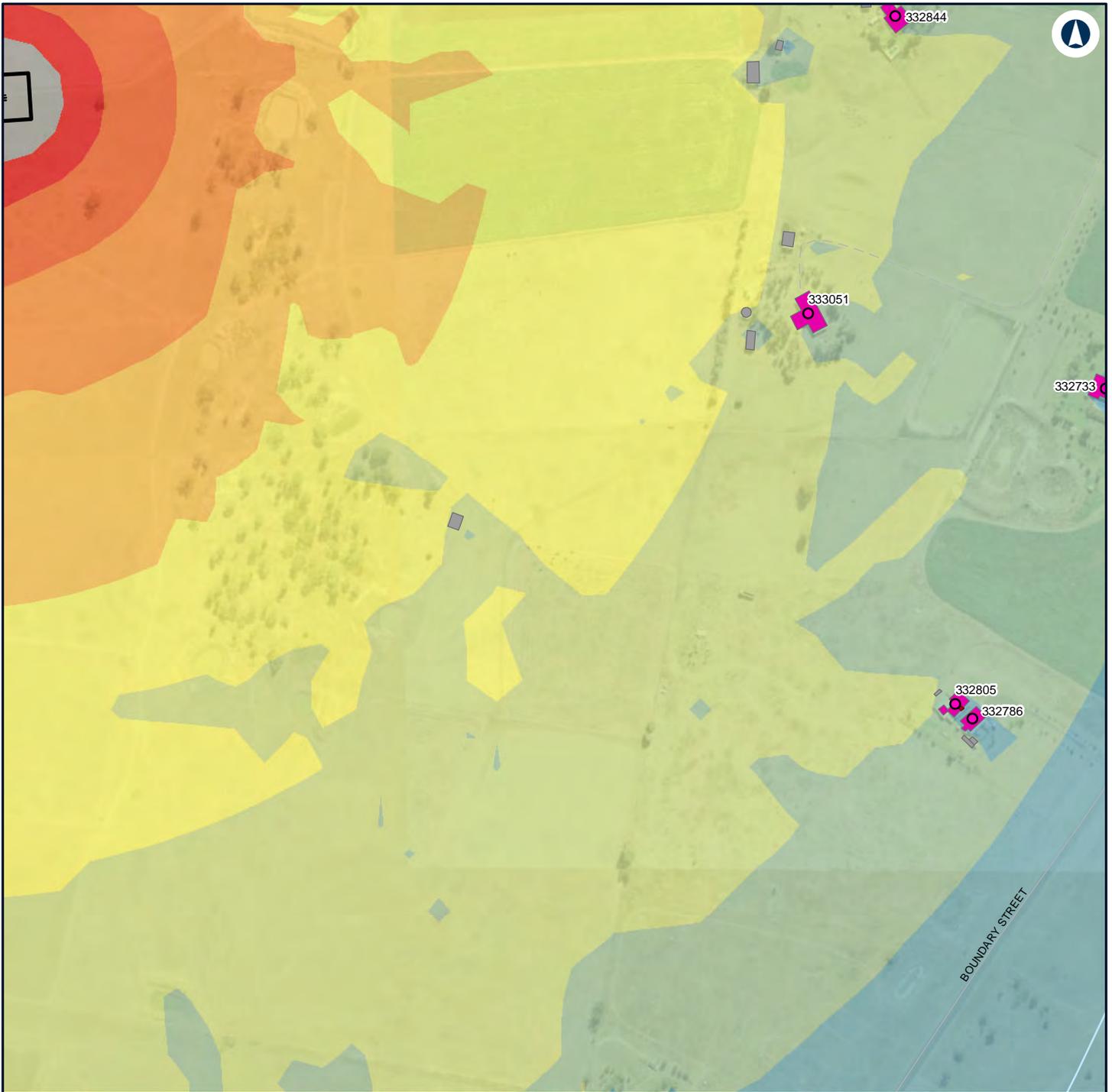
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LEGEND

— Road design string	Noise level (dBA L	60 - 65
Construction footprint	Aeq 15 minute)	65 - 70
Structure type	35 - 40	70 - 75
Residential	40 - 45	> 75
Other	45 - 50	
Residential	50 - 55	
	55 - 60	



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

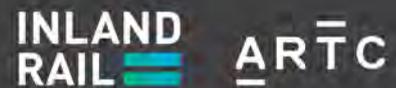


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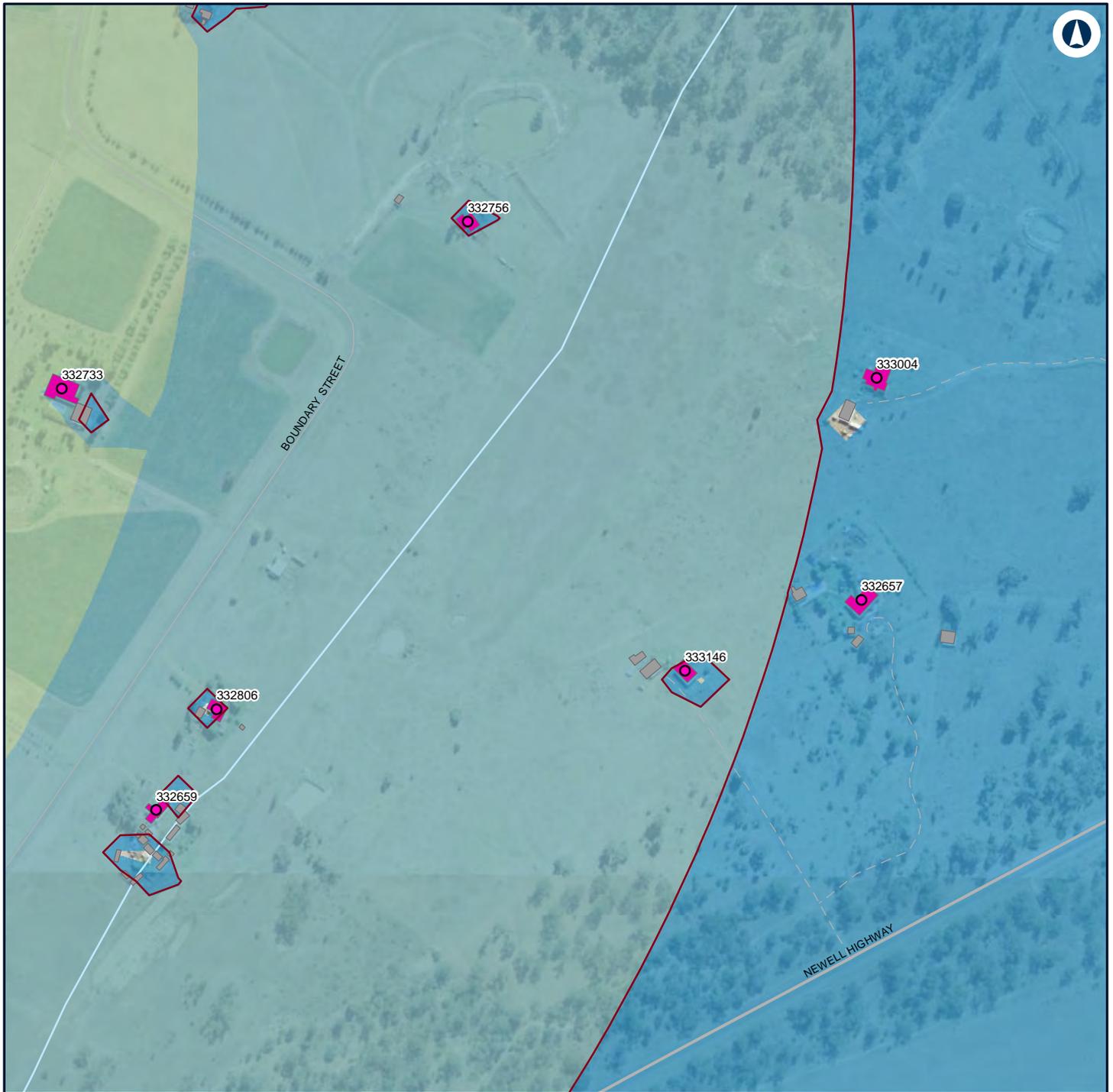
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LEGEND

- Structure type**
- 35 - 40
 - 40 - 45
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



Coordinate System: GDA 1994 MGA Zone 55

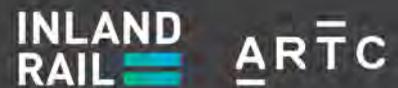
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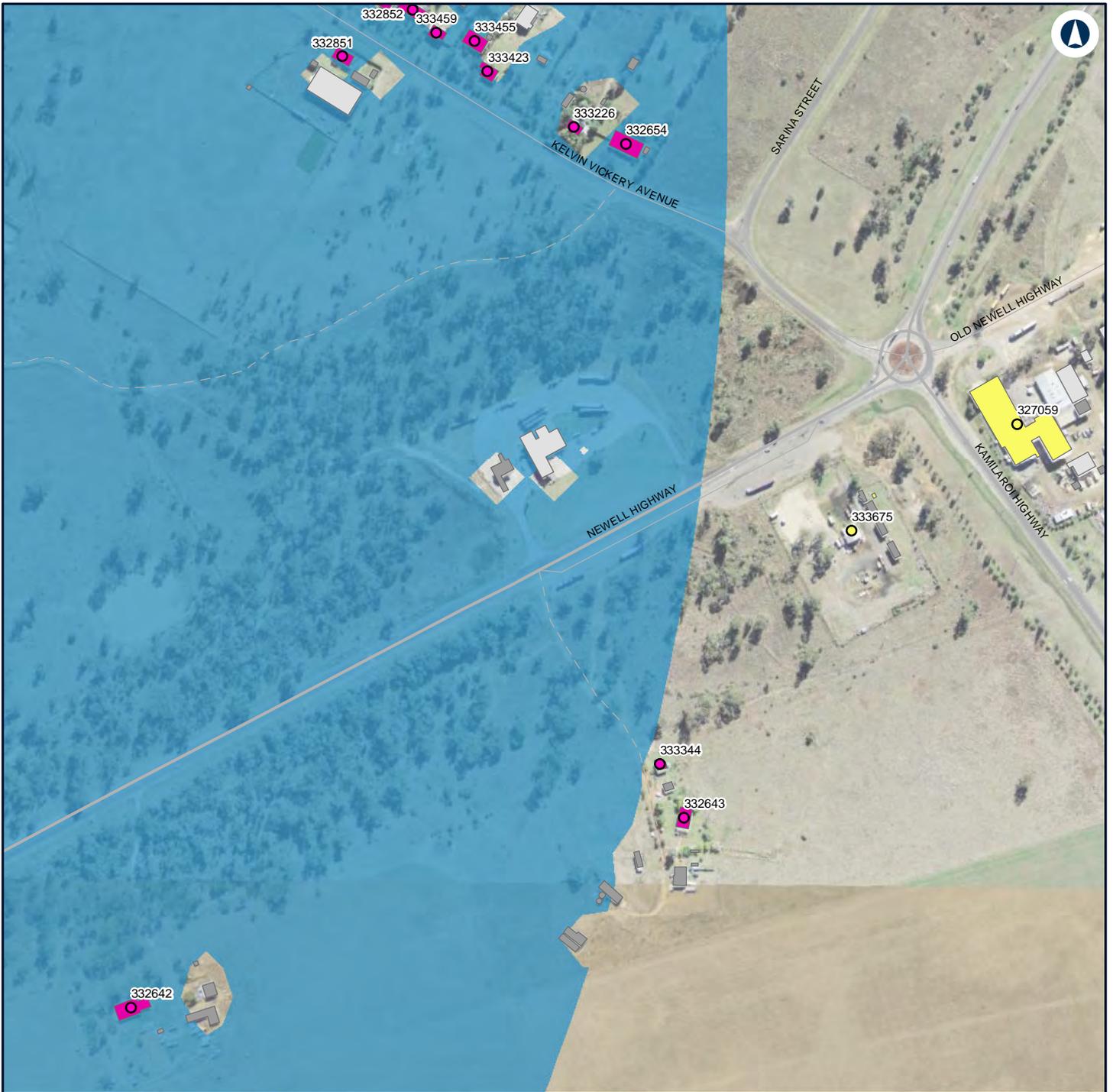
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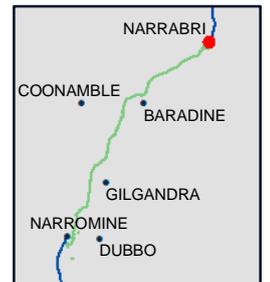


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LEGEND

- | | |
|-----------------------|---------------------------|
| Structure type | Residential |
| Community | Noise level (dBA L |
| Residential | Aeq 15 minute) |
| Commercial/Industrial | 30 - 35 |
| Community | |
| Other | |



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

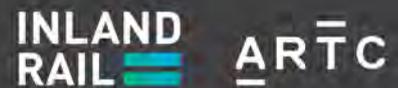


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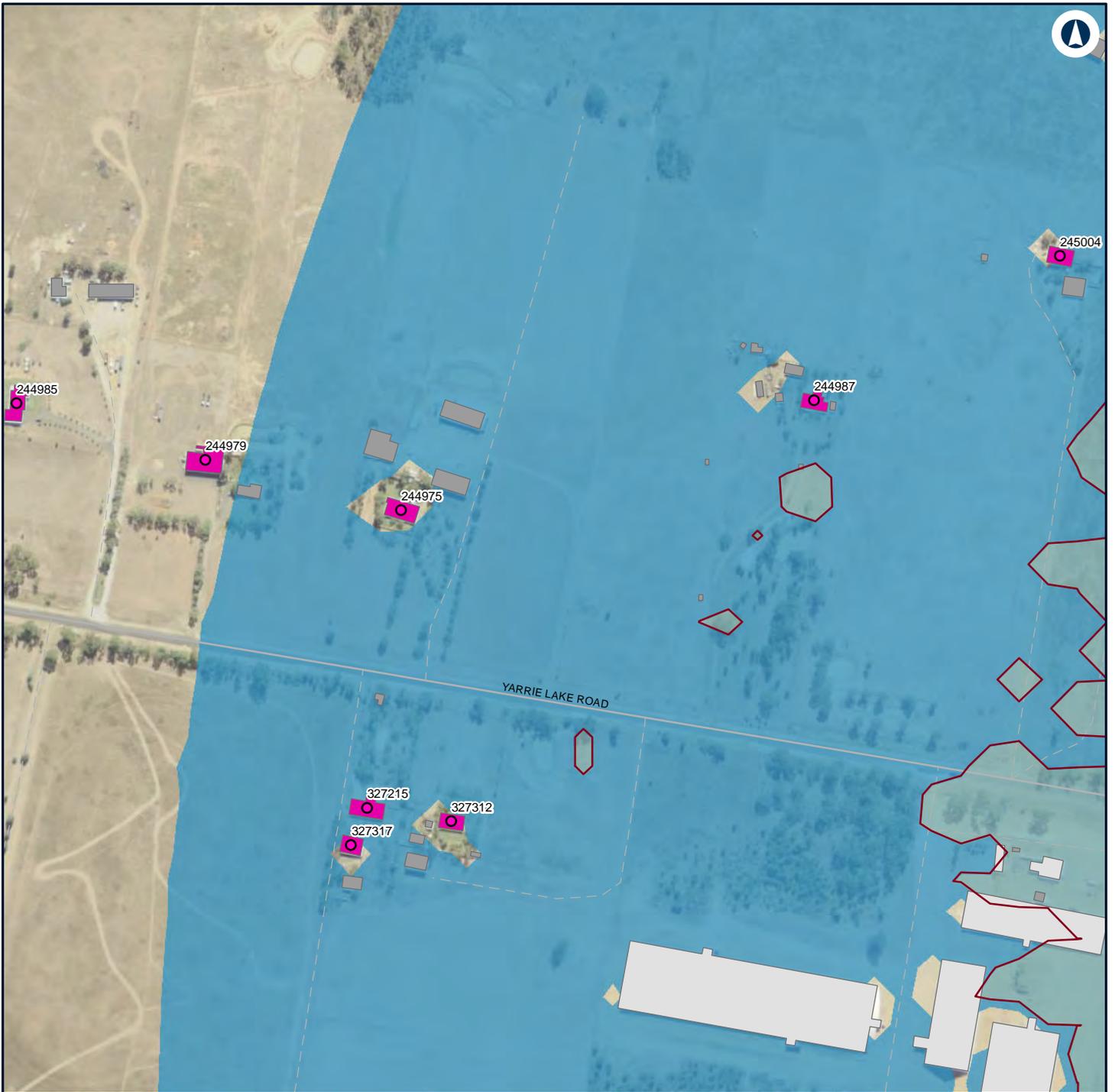
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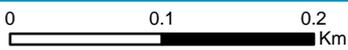
LEGEND

Structure type	Noise level (dBA L Aeq 15 minute)
Residential	30 - 35
Commercial/ Industrial	35 - 40
Other	
Residential	



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



Coordinate System: GDA 1994 MGA Zone 55

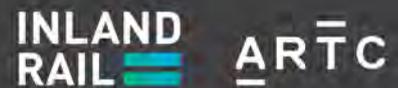
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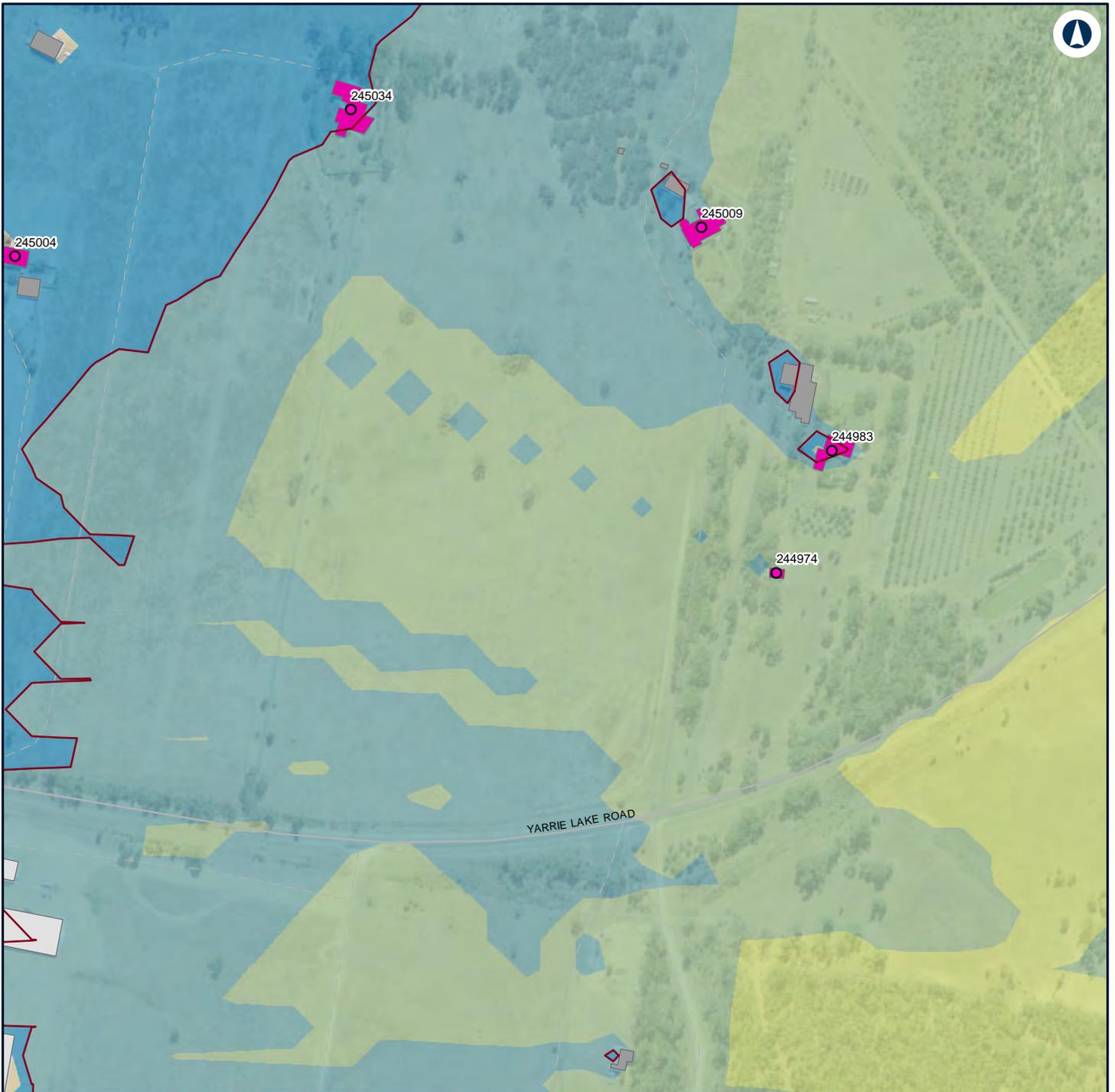
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LEGEND

Structure type

- Residential
- Commercial/Industrial
- Other
- Residential

Noise level (dBA L

- Aeq 15 minute)**
- 30 - 35
 - 35 - 40
 - 40 - 45
 - 45 - 50



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



Coordinate System: GDA 1994 MGA Zone 55

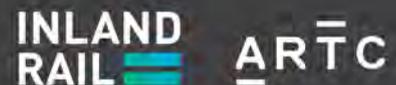
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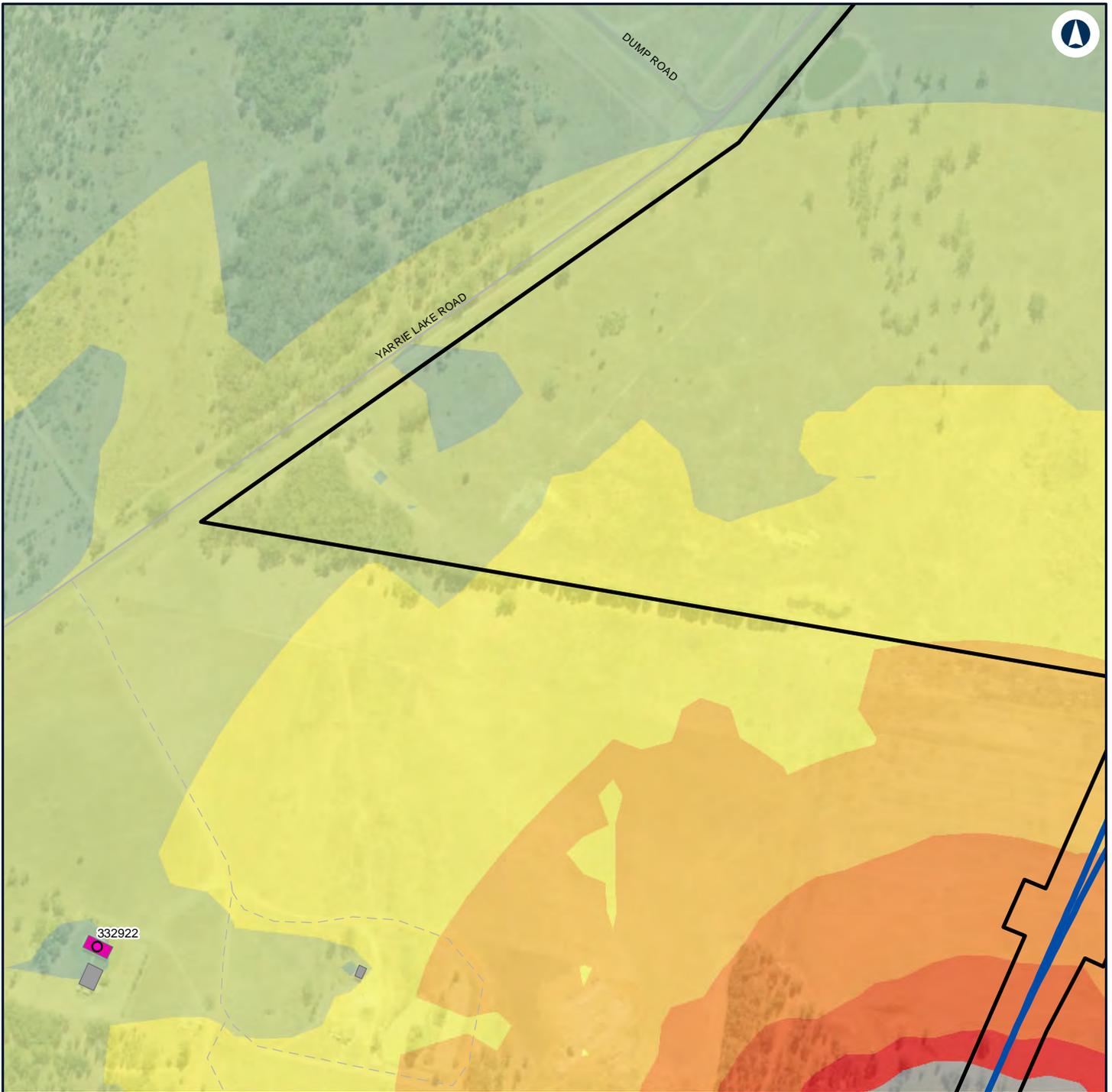
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LEGEND

- Alignment
- Construction footprint
- Structure type**
 - Residential
 - Other
 - Residential
- Noise level (dBA L Aeq 15 minute)**
 - 40 - 45
 - 45 - 50
 - 50 - 55
 - 55 - 60
 - 60 - 65
 - 65 - 70
 - 70 - 75
 - > 75



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

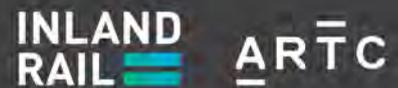


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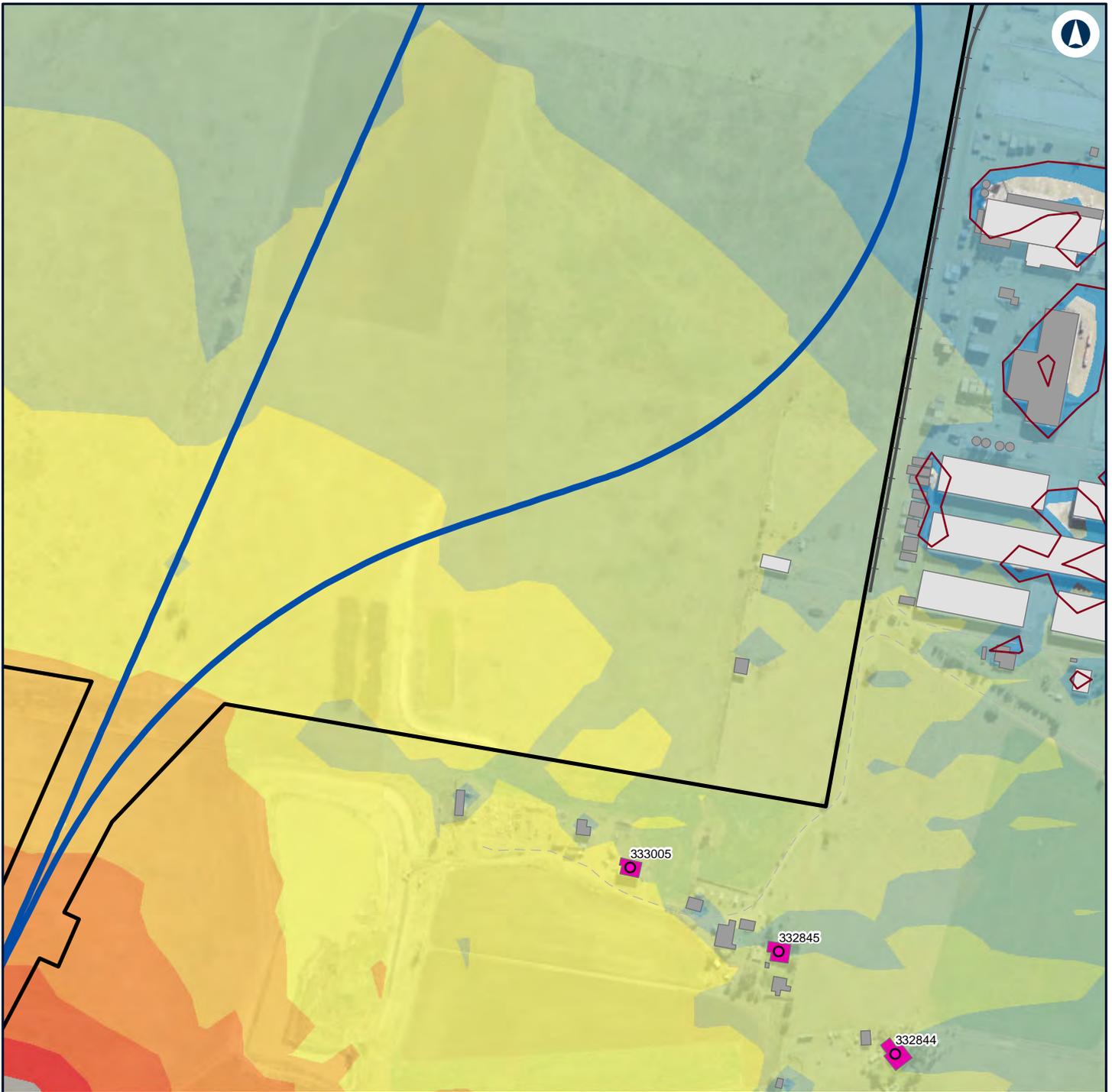
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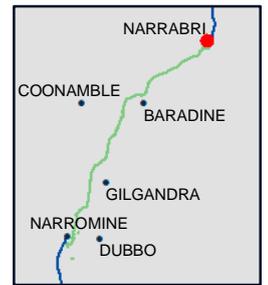


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LEGEND

- Alignment
 - Construction footprint
 - Structure type**
 - Residential
 - Commercial/Industrial
 - Other
- | | |
|--|-------------|
| | Residential |
| Noise level (dBA L Aeq 15 minute) | |
| | 50 - 55 |
| | 55 - 60 |
| | 60 - 65 |
| | 65 - 70 |
| | 70 - 75 |
| | > 75 |
| | 30 - 35 |
| | 35 - 40 |
| | 40 - 45 |
| | 45 - 50 |



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

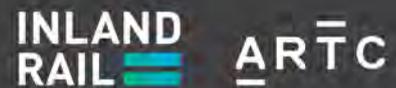


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LEGEND

Structure type	Noise level (dBA L Aeq 15 minute)
Residential	30 - 35
Commercial/ Industrial	35 - 40
Other	40 - 45
Residential	45 - 50



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



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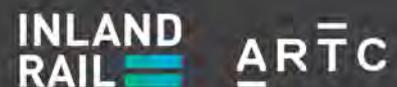
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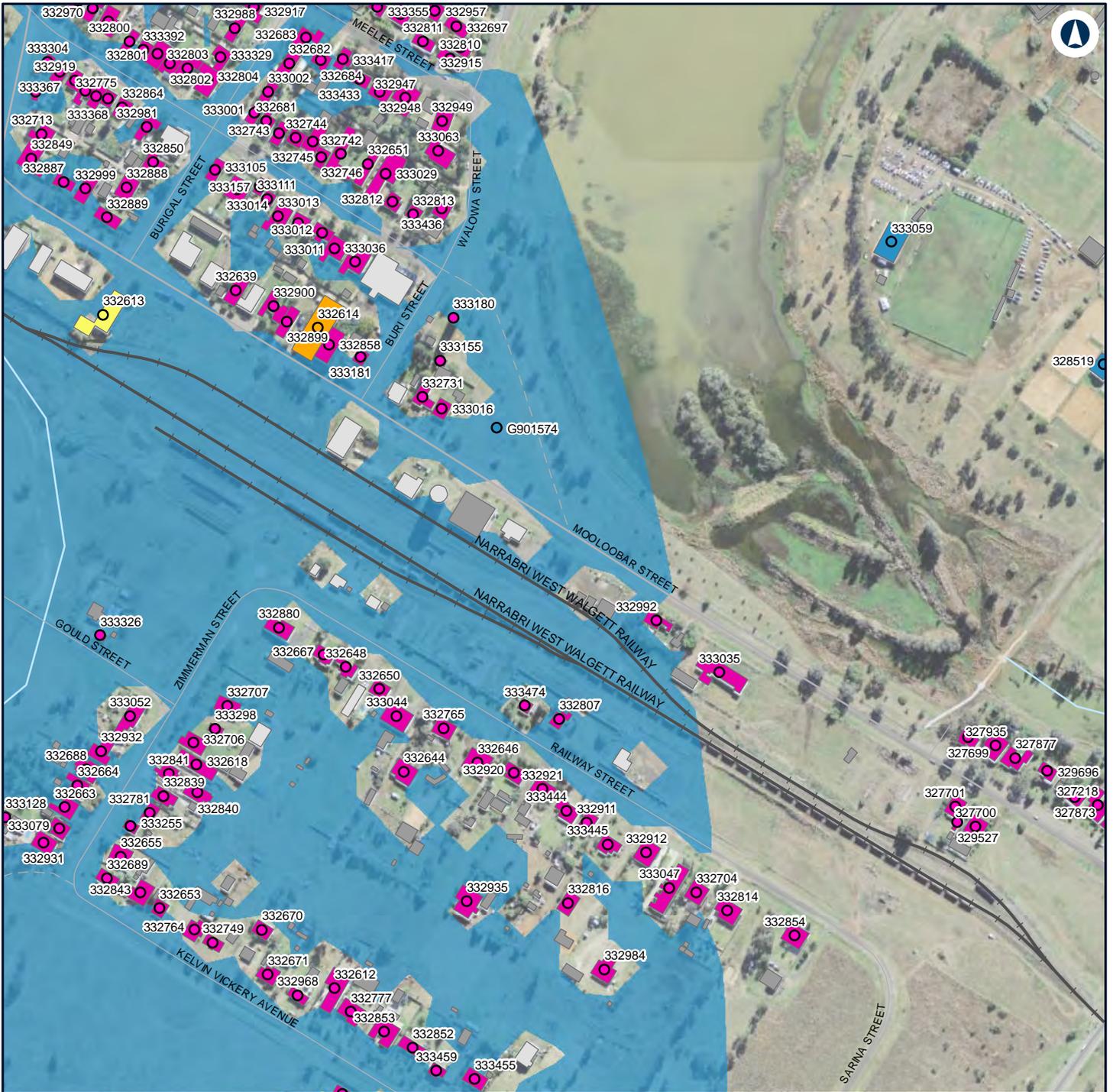
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LEGEND

- Structure type**
- Active recreation
 - Community
 - Residential
 - Worship
 - Commercial/Industrial
 - Community
 - Other
 - Residential
 - Worship

**Noise level (dBA L
Aeq 15 minute)**

■ 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 269 of 304



Coordinate System: GDA 1994 MGA Zone 55

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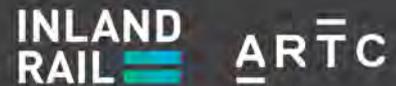
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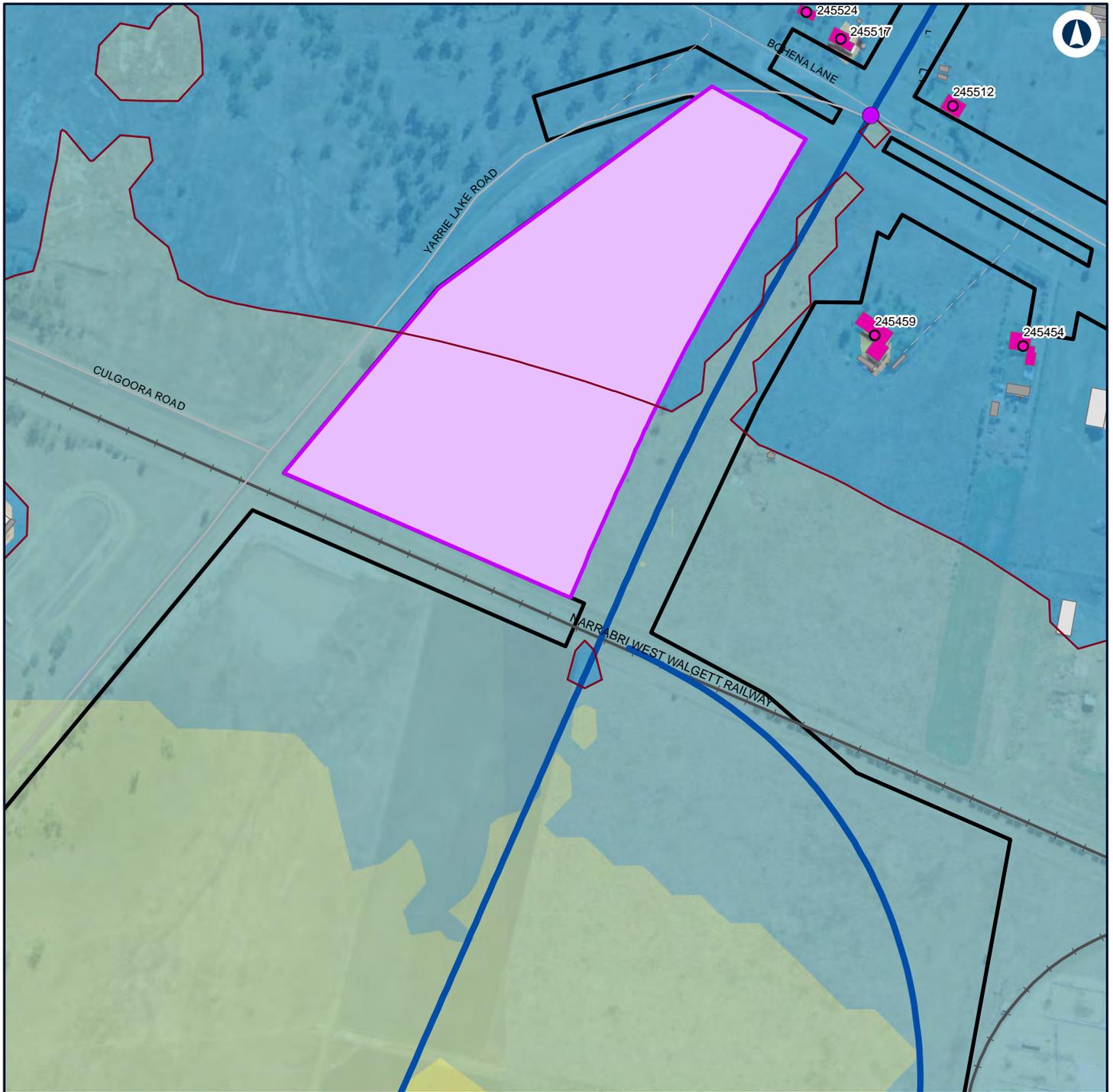
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LEGEND

- | | | |
|------------------------|--|---------|
| Alignment | Other | 45 - 50 |
| Construction footprint | Residential | |
| Structure type | Noise level (dBA L Aeq 15 minute) | |
| Residential | 30 - 35 | |
| Commercial/Industrial | 35 - 40 | |
| DEMOLISH - Other | 40 - 45 | |



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



Coordinate System: GDA 1994 MGA Zone 55

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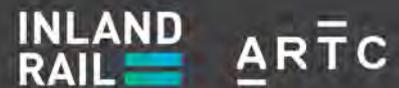
Date: 16/07/2020

Paper: A4

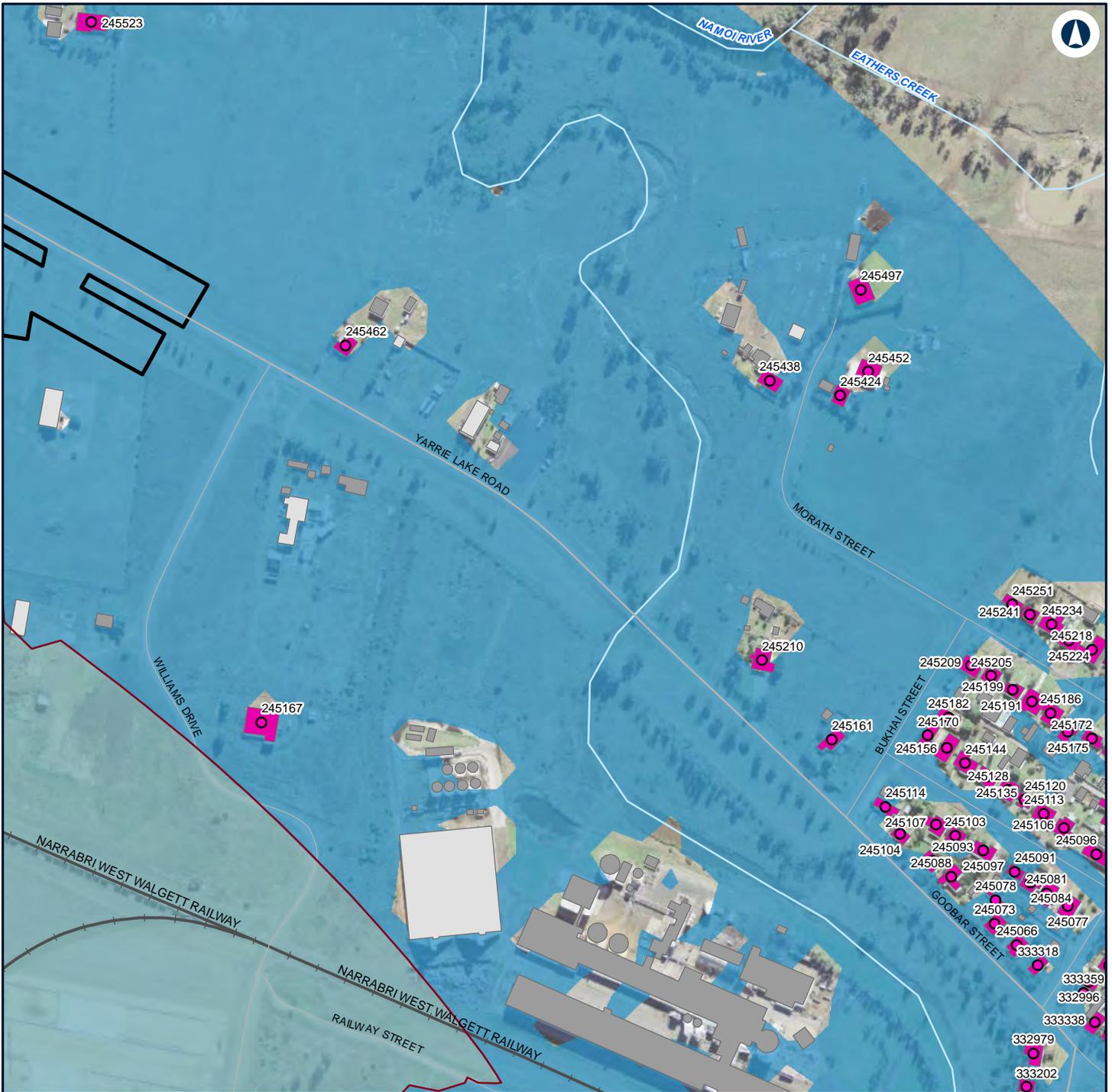
Author: GHD

Scale: 1:5,000

Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD



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LEGEND

Construction footprint

Structure type

- Residential
- Commercial/Industrial
- Other
- Residential

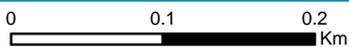
Noise level (dBA L

- Aeq 15 minute)**
- 30 - 35
 - 35 - 40



NARRABRI TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



Coordinate System: GDA 1994 MGA Zone 55

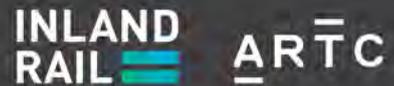
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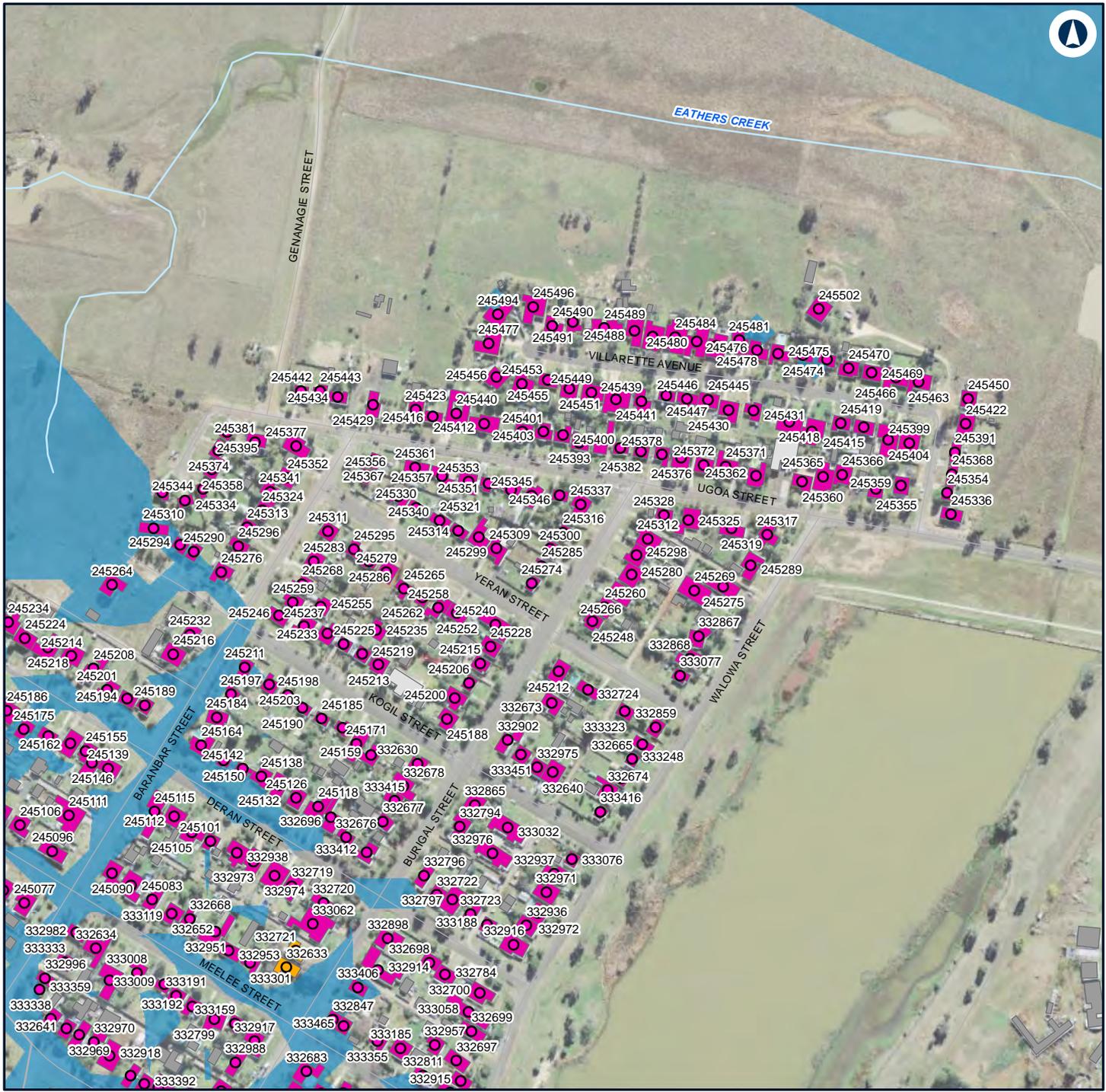
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Author: GHD

Paper: A4
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

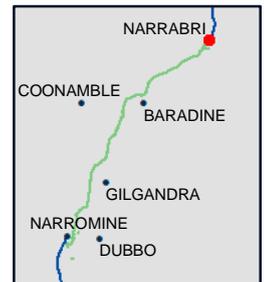


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LEGEND

- | | |
|-----------------------|---------------------|
| Structure type | Worship |
| Residential | Noise level (dBA L) |
| Worship | Aeq 15 minute |
| Commercial/Industrial | 30 - 35 |
| Other | |
| Residential | |



0 0.1 0.2 Km

Coordinate System: GDA 1994 MGA Zone 55

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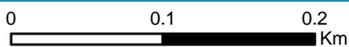
LEGEND

- | | |
|-----------------------|---------------------------|
| Structure type | Community |
| Active recreation | Other |
| Community | Residential |
| Residential | Noise level (dBA L |
| Active recreation | Aeq 15 minute) |
| Commercial/Industrial | 30 - 35 |



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



Coordinate System: GDA 1994 MGA Zone 55

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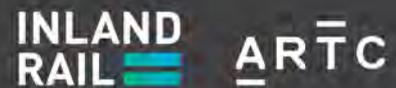
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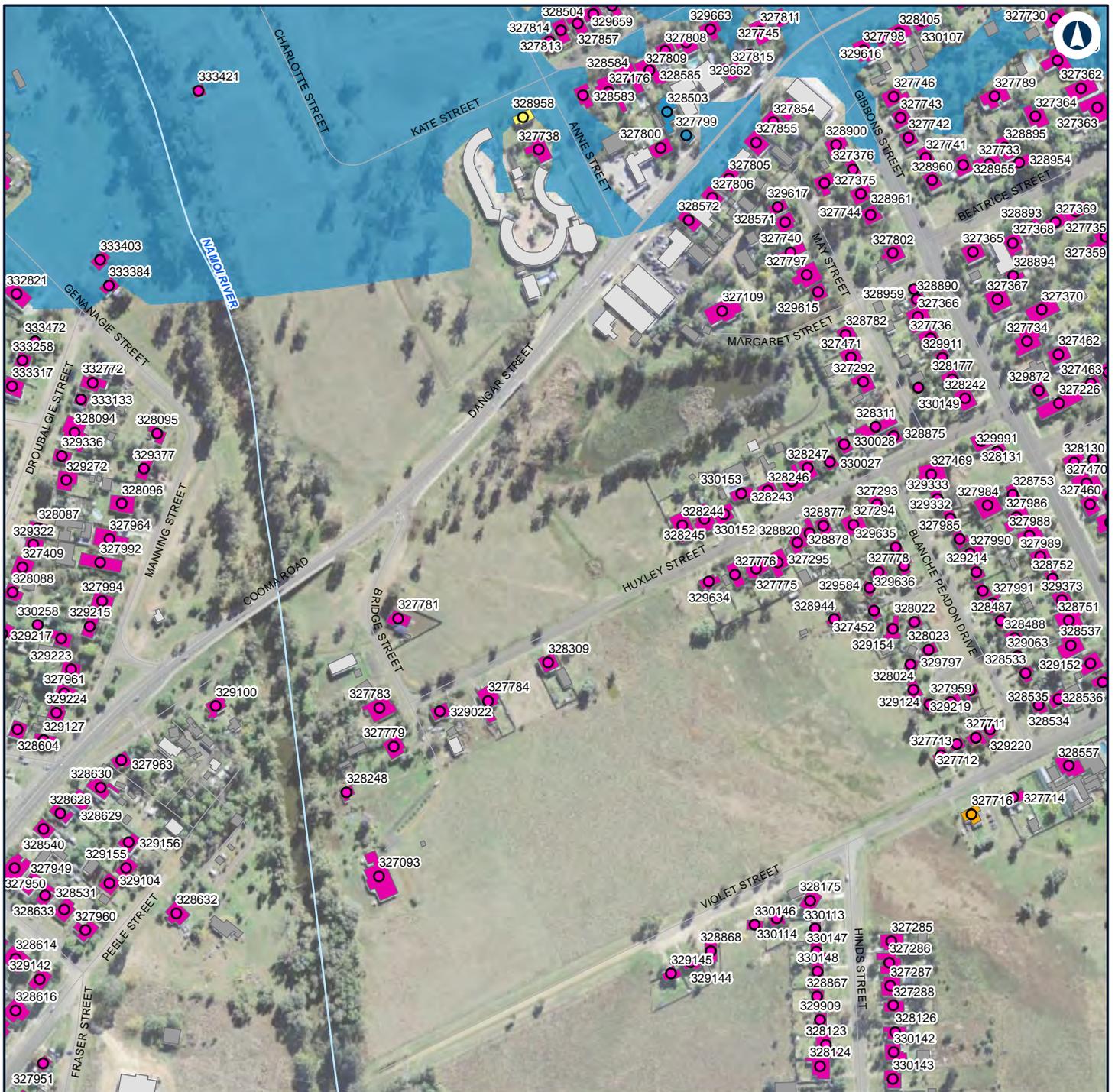
Author: GHD

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LEGEND

Structure type	Commercial/Industrial
Active recreation	Community
Community	Other
Residential	Residential
Worship	Worship
Active recreation	

Noise level (dBA L Aeq 15 minute)
 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 274 of 304



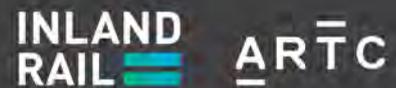
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LEGEND

Structure type

- Residential
- Other
- Residential

Noise level (dBA L

- Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

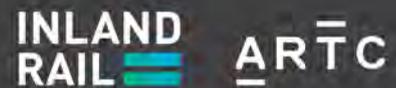


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LEGEND

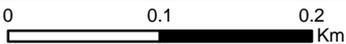
- Alignment
- Construction footprint
- Structure type**
- Residential
- Commercial/Industrial
- DEMOLISH - Other
- Other
- Residential
- Noise level (dBA L Aeq 15 minute)**
- 30 - 35
- 35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 277 of 304



Coordinate System: GDA 1994 MGA Zone 55

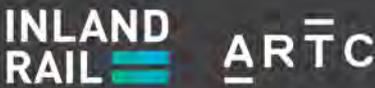
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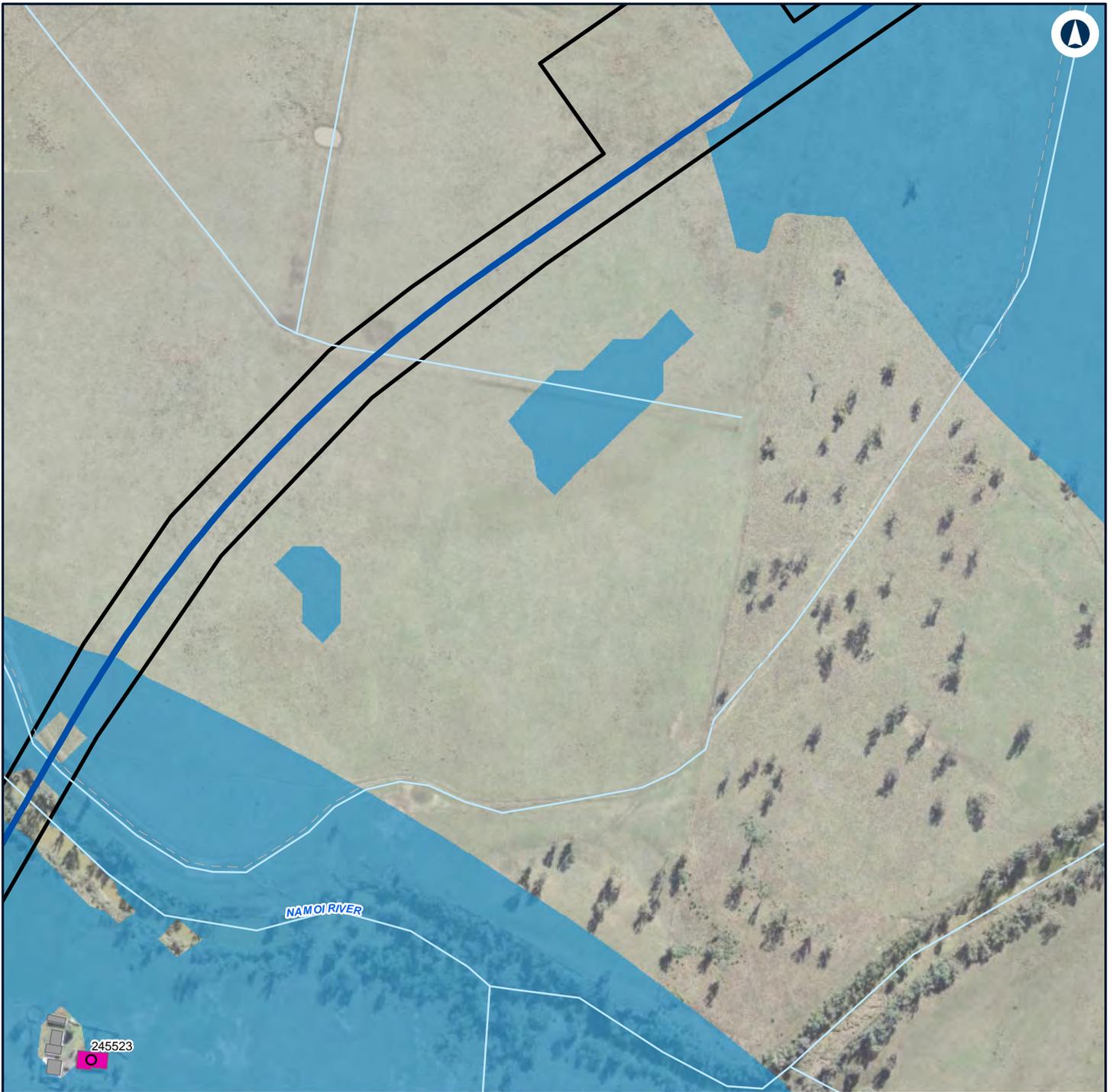
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LEGEND

- Alignment
- Construction footprint
- Structure type**
- Residential
- Other
- Residential

**Noise level (dBA L
Aeq 15 minute)**
 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 278 of 304



Coordinate System: GDA 1994 MGA Zone 55

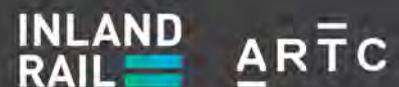
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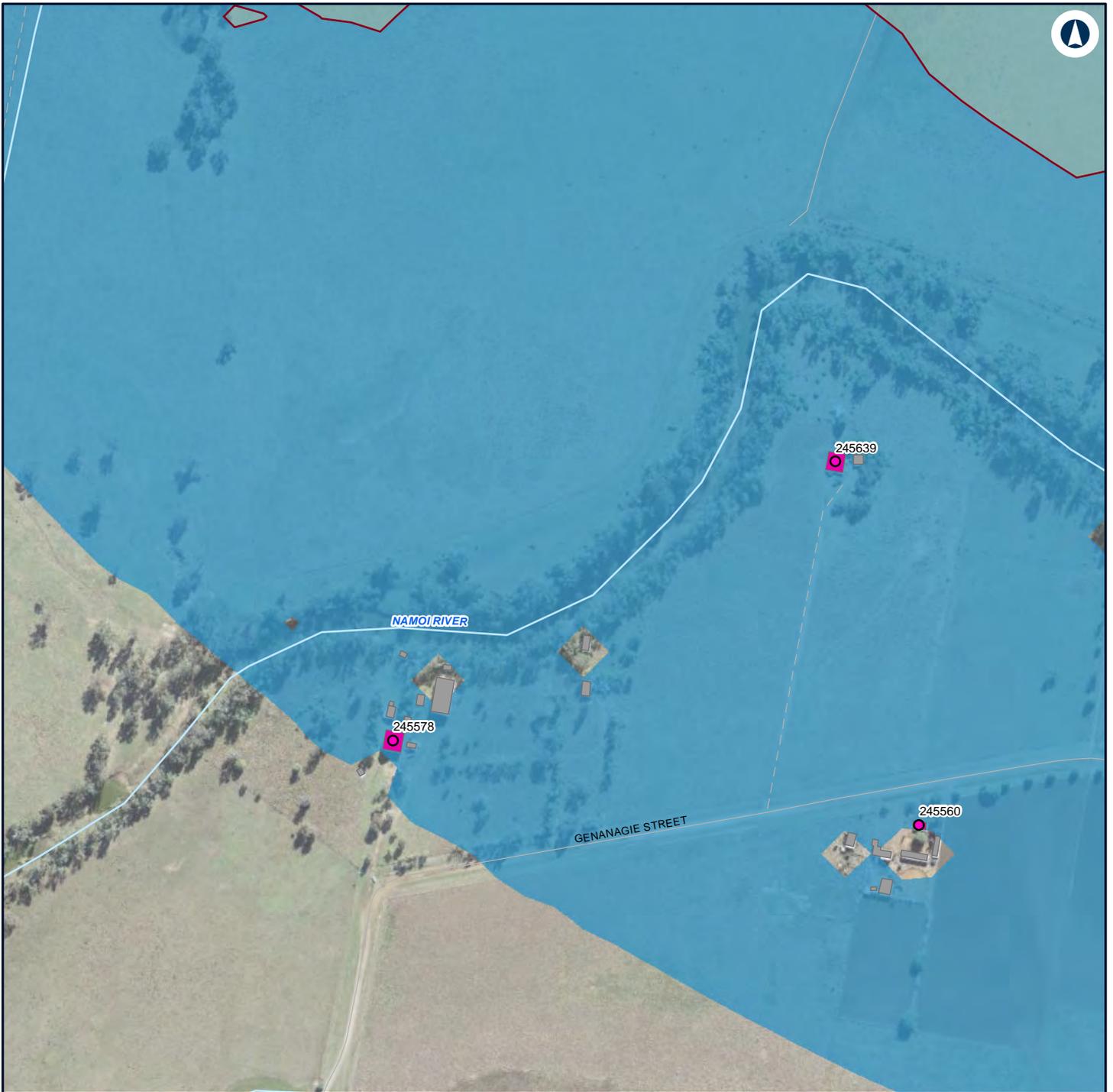
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LEGEND

- Structure type**
- Residential
- Other
- Residential
- Noise level (dBA L**
Aeq 15 minute)
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 279 of 304



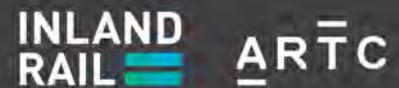
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LEGEND

- Structure type**
- 35 - 40
 - 40 - 45
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



0 0.1 0.2 Km

Coordinate System: GDA 1994 MGA Zone 55

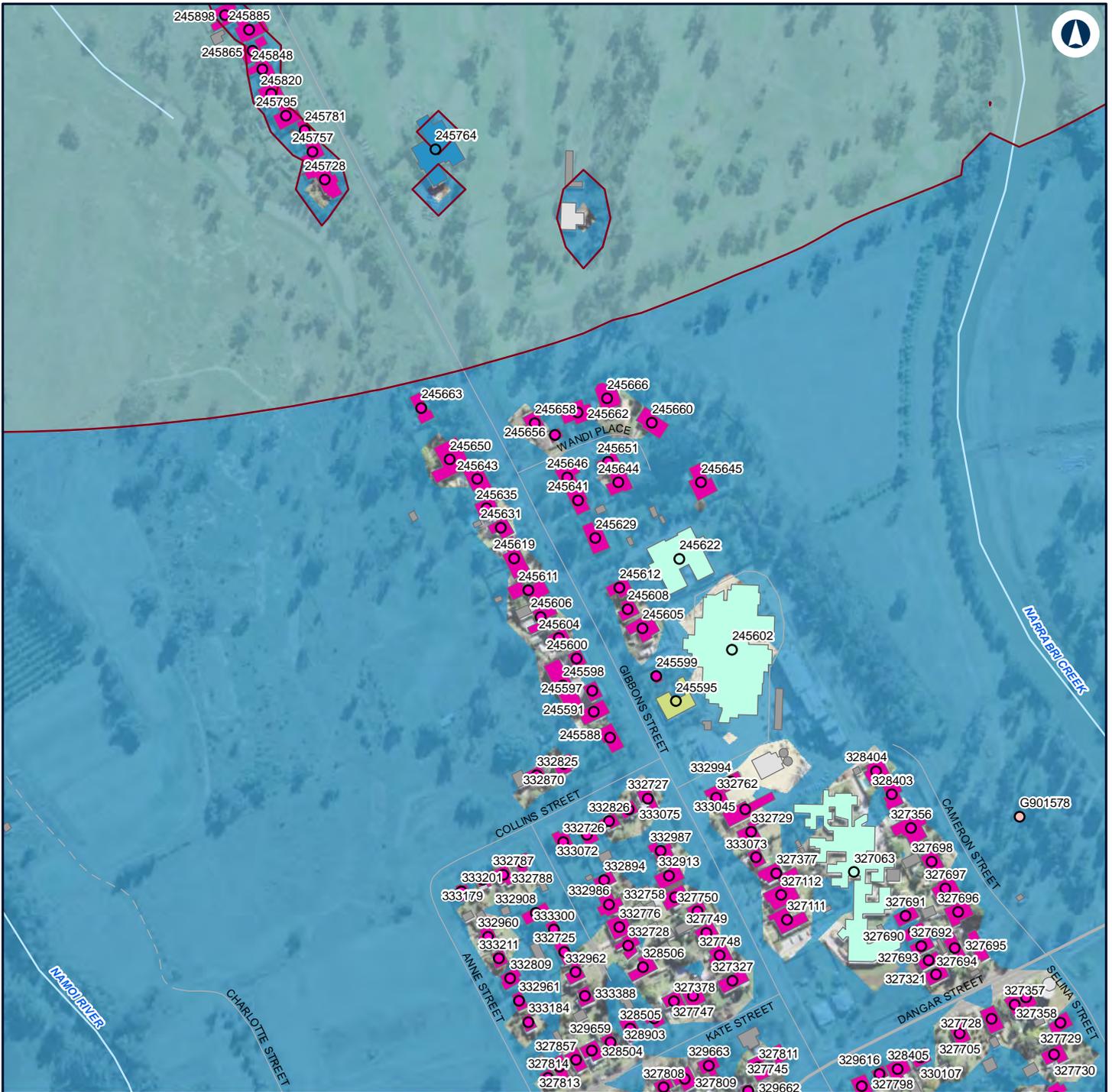
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LEGEND

- Structure type**
- Active recreation
 - Child care facility
 - Health
 - Passive recreation
 - Residential
 - Active recreation
 - Commercial/Industrial
 - Health
 - Other
 - Residential

- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35
 - 35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



Coordinate System: GDA 1994 MGA Zone 55

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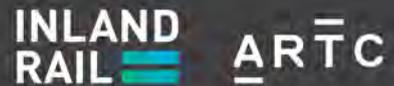
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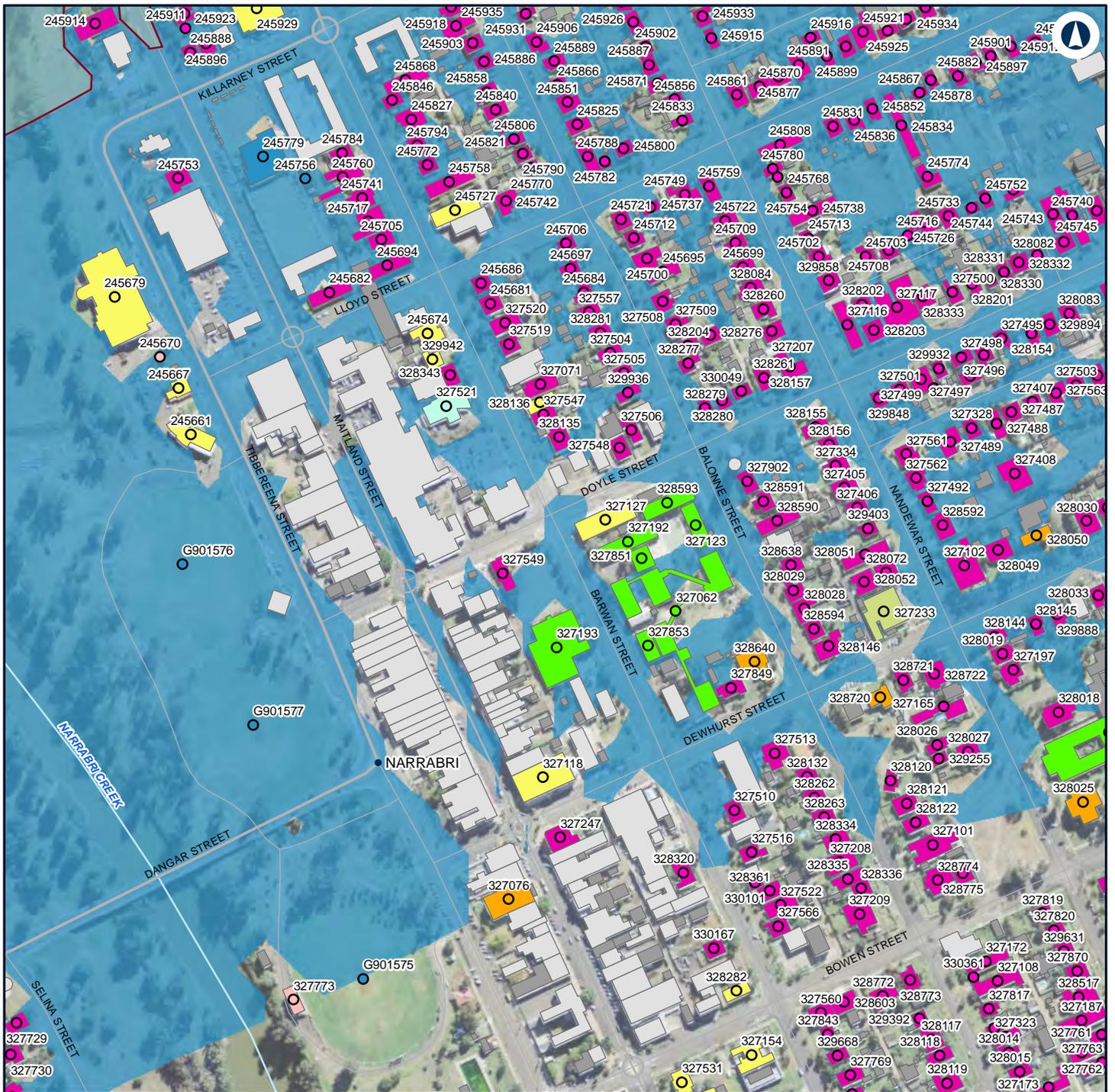
Author: GHD

Scale: 1:5,000

Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD



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LEGEND

Structure type	● Residential	■ Educational	Noise level (dBA L
● Active recreation	● Worship	■ Health	Aeq 15 minute)
● Child care facility	■ Active recreation	■ Other	■ 30 - 35
● Community	■ Child care facility	■ Passive recreation	■ 35 - 40
● Educational	■ Commercial/Industrial	■ Residential	
● Health	■ Community	■ Worship	
● Passive recreation			



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

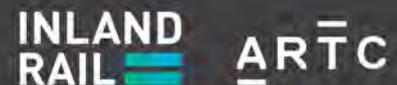


Coordinate System: GDA 1994 MGA Zone 55

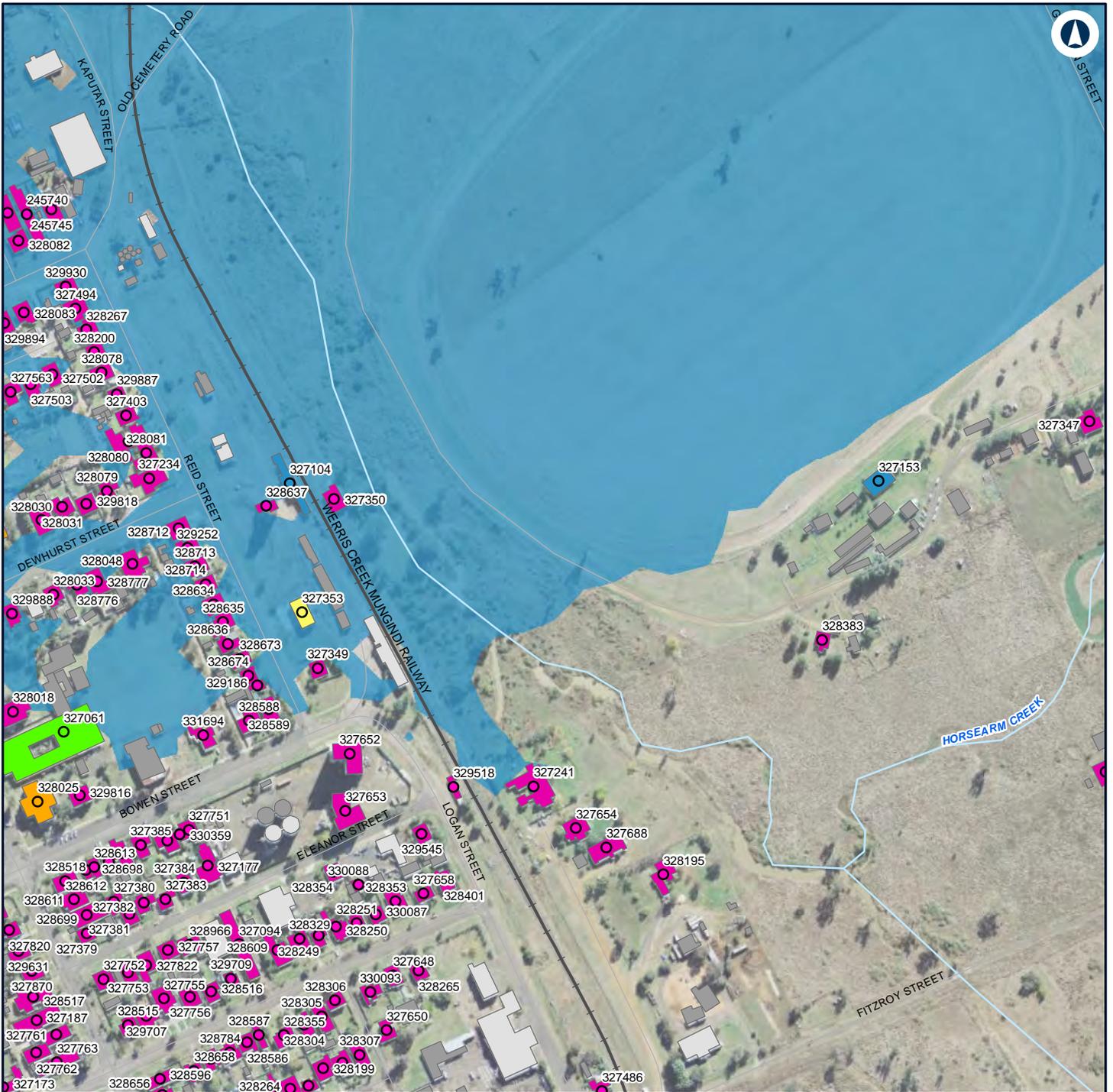
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LEGEND

Structure type	Commercial/Industrial
Active recreation	Community
Community	Educational
Educational	Other
Residential	Residential
Worship	Worship
Active recreation	

Noise level (dBA L)
Aeq 15 minute)
 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 283 of 304



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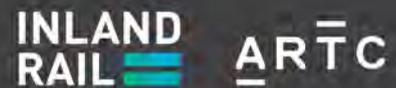
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LEGEND

Structure type	Noise level (dBA L Aeq 15 minute)
Residential	30 - 35
Commercial/ Industrial	
Other	
Residential	



NARROMINE TO NARRABRI Construction noise contours, Scenario ROAD03 - Road Earthworks Appendix G - Page 284 of 304

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

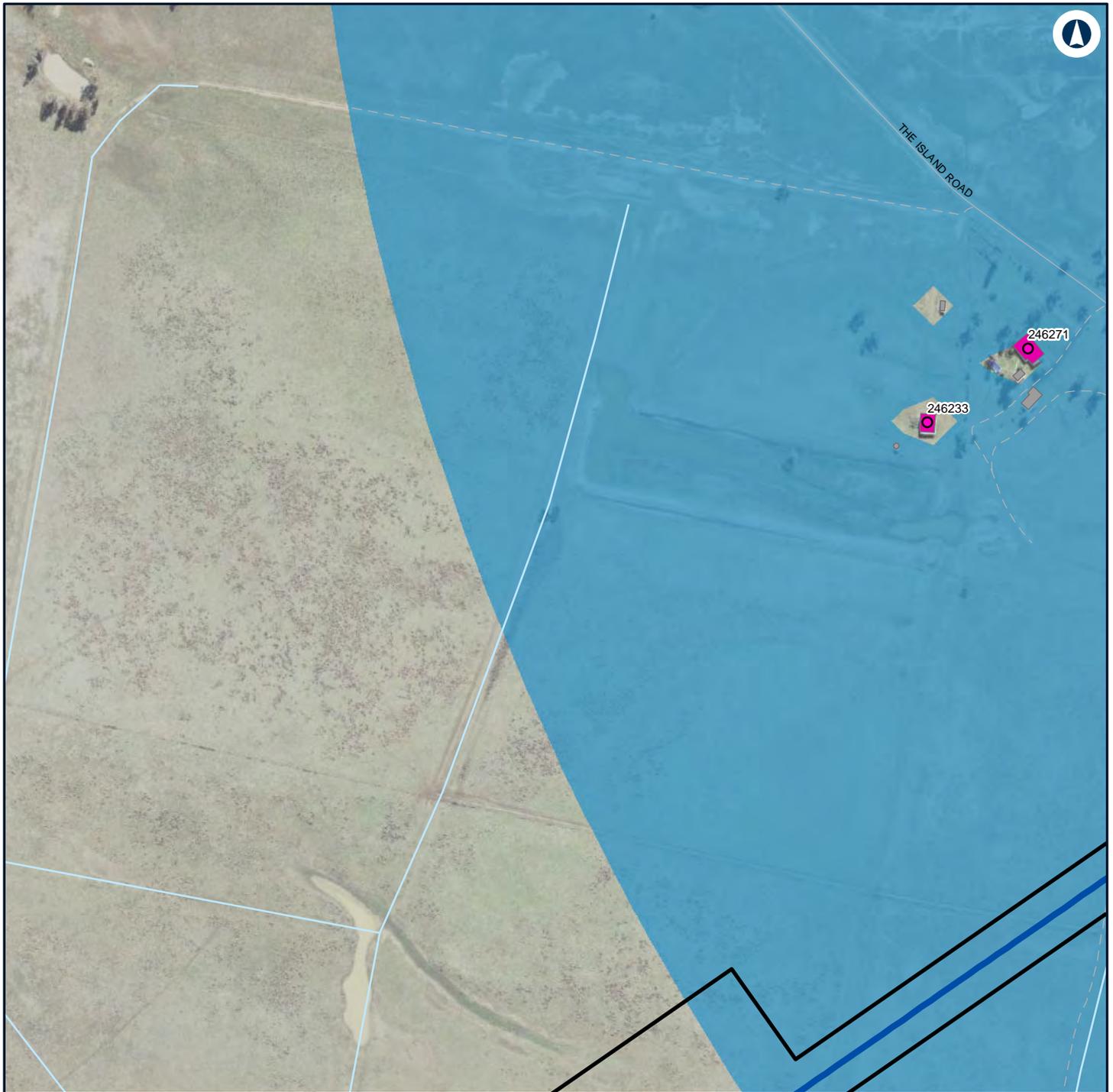
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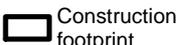
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LEGEND

-  Alignment
-  Construction footprint
- Structure type**
 -  Residential
 -  Other
 -  Residential
- Noise level (dBA L Aeq 15 minute)**
 -  30 - 35



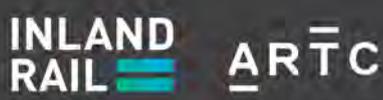
0 0.1 0.2 Km

Coordinate System: GDA 1994 MGA Zone 55

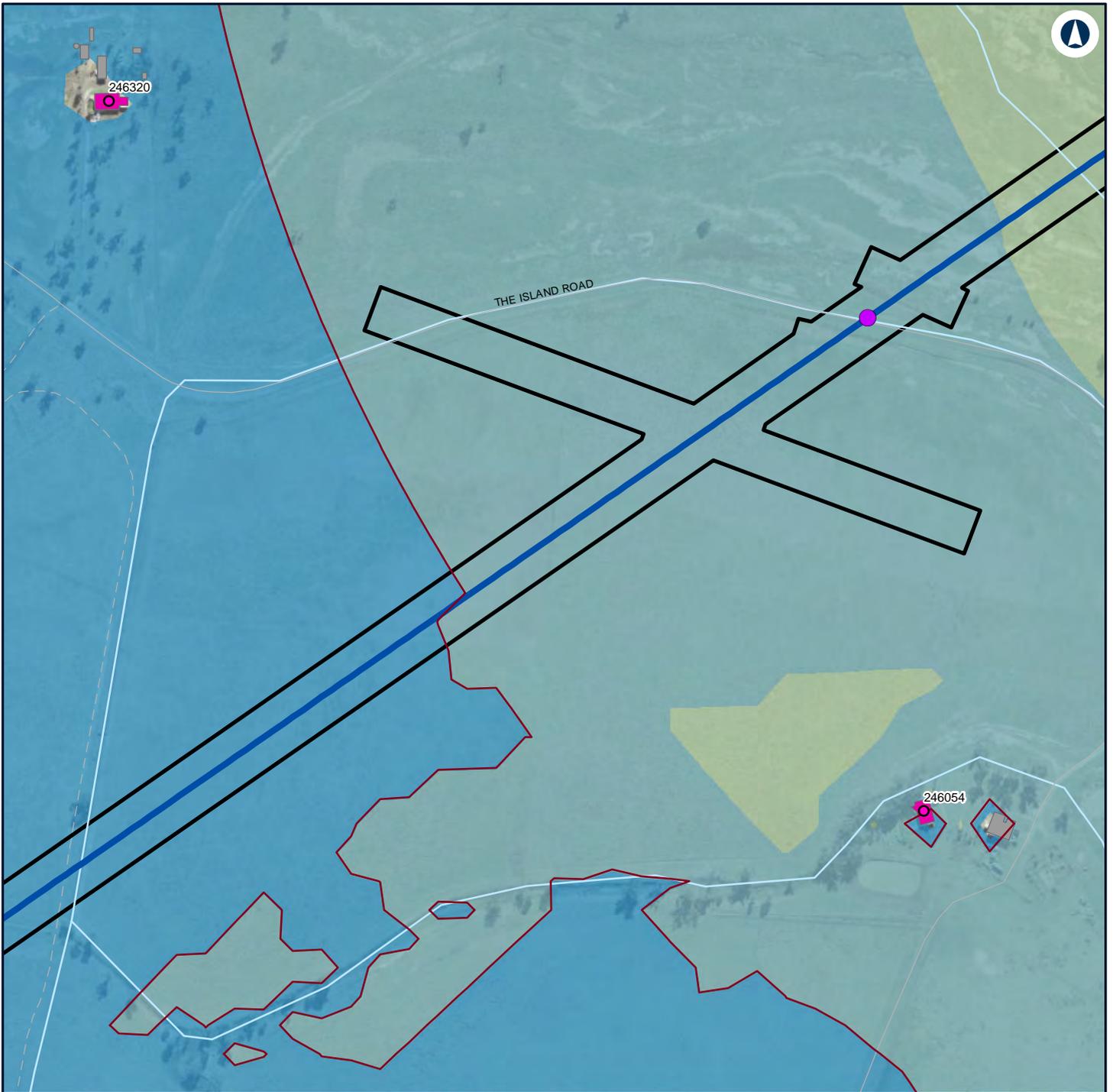
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LEGEND

- | | |
|------------------------|---------------------------|
| Alignment | Noise level (dBA L |
| Construction footprint | Aeq 15 minute) |
| Structure type | 30 - 35 |
| Residential | 35 - 40 |
| Other | 40 - 45 |
| Residential | |



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



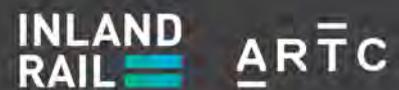
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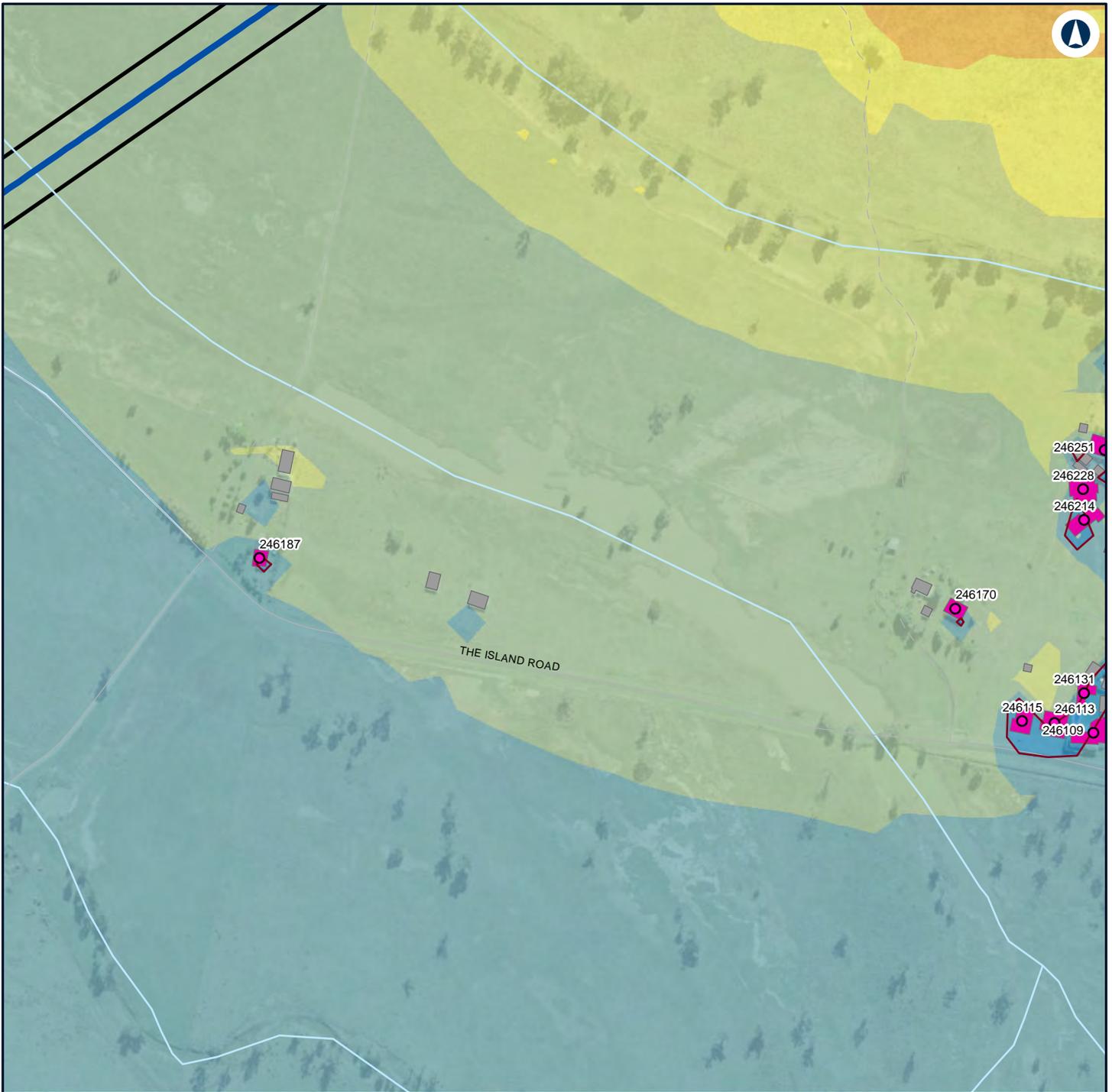
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LEGEND

- Alignment
 - Construction footprint
 - Structure type**
 - Residential
 - Other
 - Residential
- | Noise level (dBA L
Aeq 15 minute) | Color |
|--------------------------------------|---|
| 30 - 35 | |
| 35 - 40 | |
| 40 - 45 | |
| 45 - 50 | |
| 50 - 55 | |
| 55 - 60 | |



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

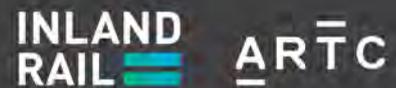


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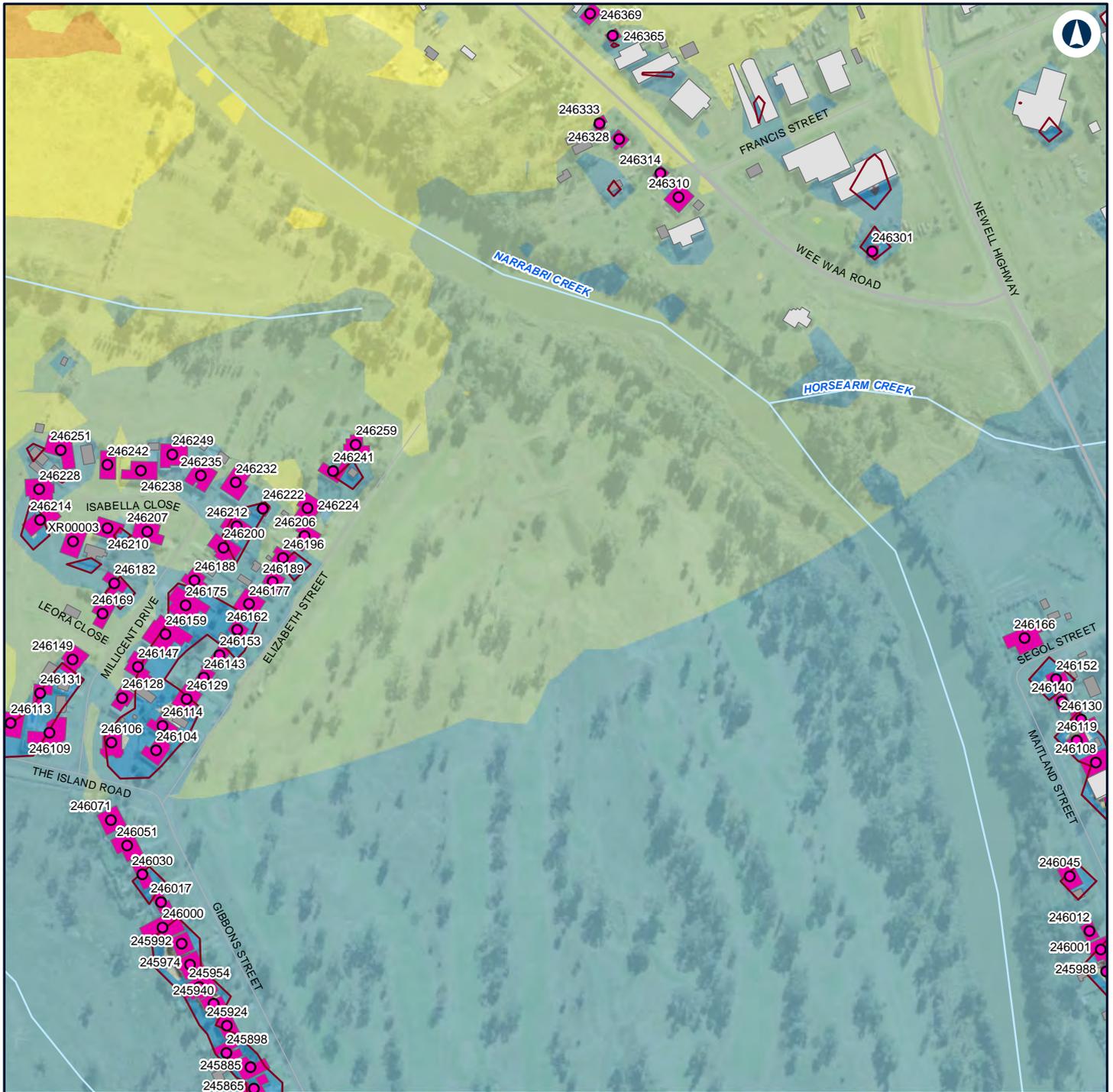
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LEGEND

Structure type	Noise level (dBA L	55 - 60
● Residential	Aeq 15 minute)	
■ Commercial/ Industrial	■ 30 - 35	
■ Other	■ 35 - 40	
■ Residential	■ 40 - 45	
	■ 45 - 50	
	■ 50 - 55	



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 288 of 304



Coordinate System: GDA 1994 MGA Zone 55

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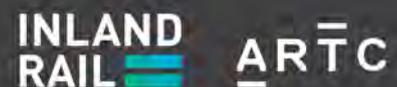
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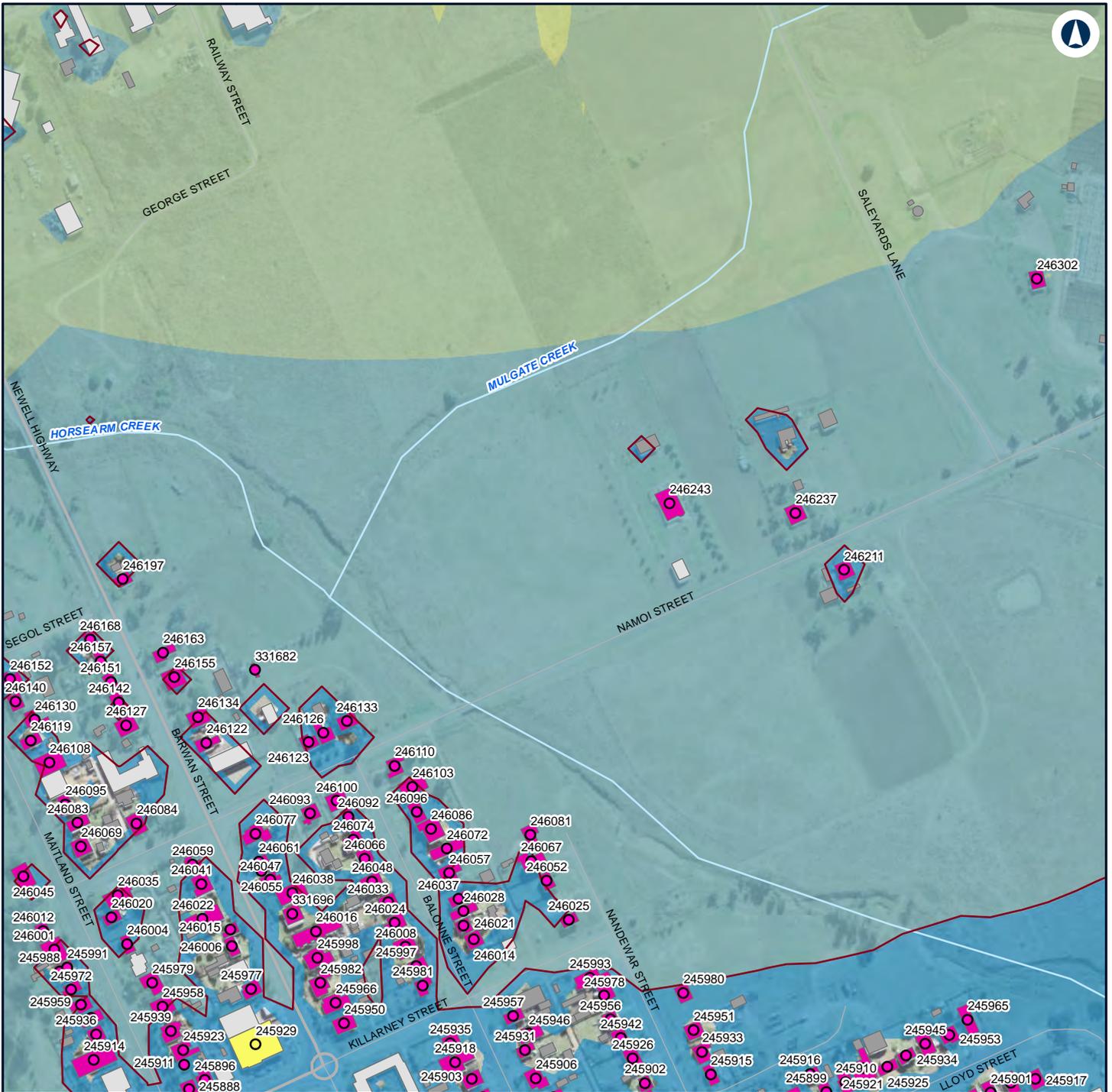
Author: GHD

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LEGEND

Structure type	Residential
Community	Noise level (dBA L
Residential	Aeq 15 minute)
Commercial/Industrial	30 - 35
Community	35 - 40
Other	40 - 45
	45 - 50



0 0.1 0.2 Km

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 Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

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LEGEND

Structure type	Residential
Passive recreation	Noise level (dBA L
Residential	Aeq 15 minute)
Commercial/Industrial	30 - 35
Other	35 - 40
Passive recreation	40 - 45



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



Coordinate System: GDA 1994 MGA Zone 55

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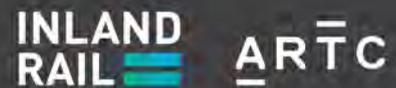
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LEGEND

Structure type

- Residential
- Other
- Residential

Noise level (dBA L

- Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



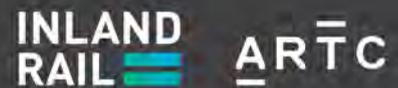
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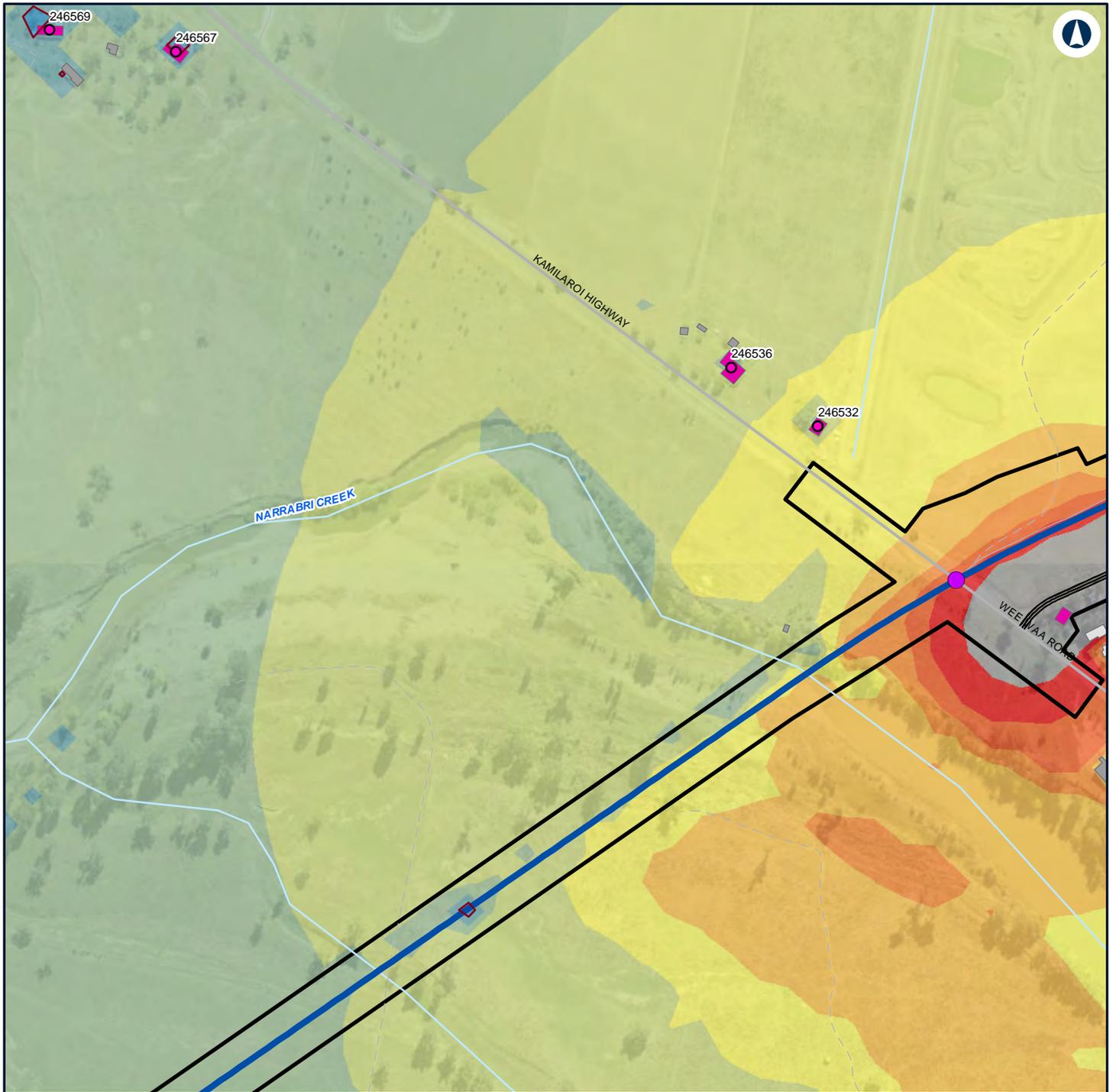
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LEGEND

Alignment	Other	45 - 50
Road design string	Residential	50 - 55
Construction footprint	Noise level (dBA L Aeq 15 minute)	55 - 60
Structure type	30 - 35	60 - 65
Residential	35 - 40	65 - 70
Commercial/Industrial	40 - 45	70 - 75
	> 75	



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Construction noise contours, Scenario ROAD03 - Road Earthworks



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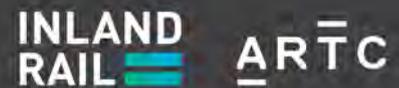
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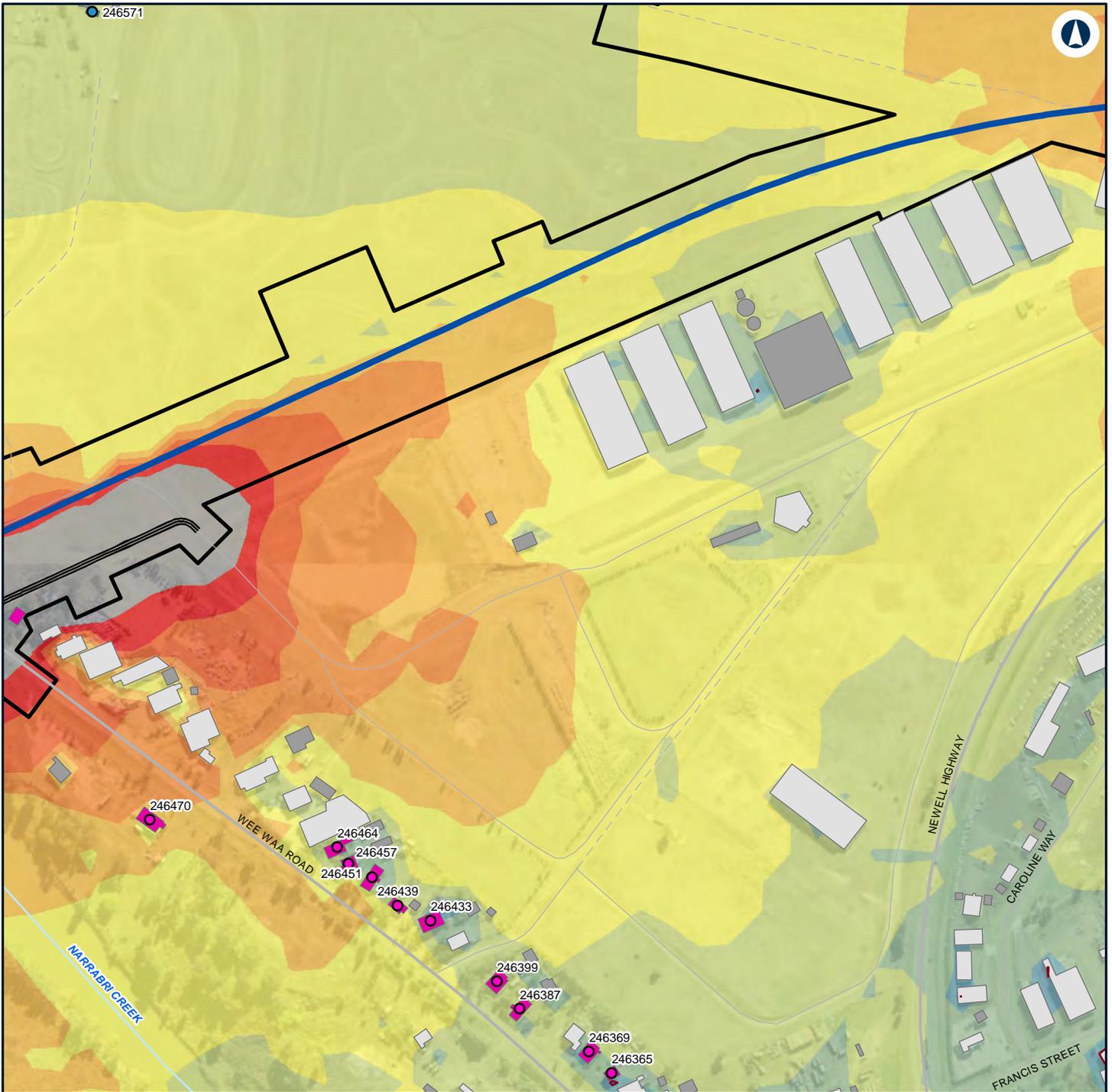
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LEGEND

Alignment	Active recreation	35 - 40	70 - 75
Road design string	Commercial/Industrial	40 - 45	> 75
Construction footprint	Other	45 - 50	
Structure type	Residential	50 - 55	
Active recreation	Noise level (dBA L	55 - 60	
Residential	Aeq 15 minute)	60 - 65	
	30 - 35	65 - 70	



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



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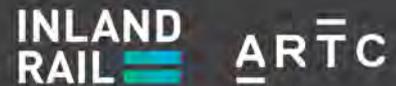
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LEGEND

Structure type

- Residential
- Other
- Residential

Noise level (dBA L

- Aeq 15 minute)
- 30 - 35



0 0.1 0.2 Km

Coordinate System: GDA 1994 MGA Zone 55

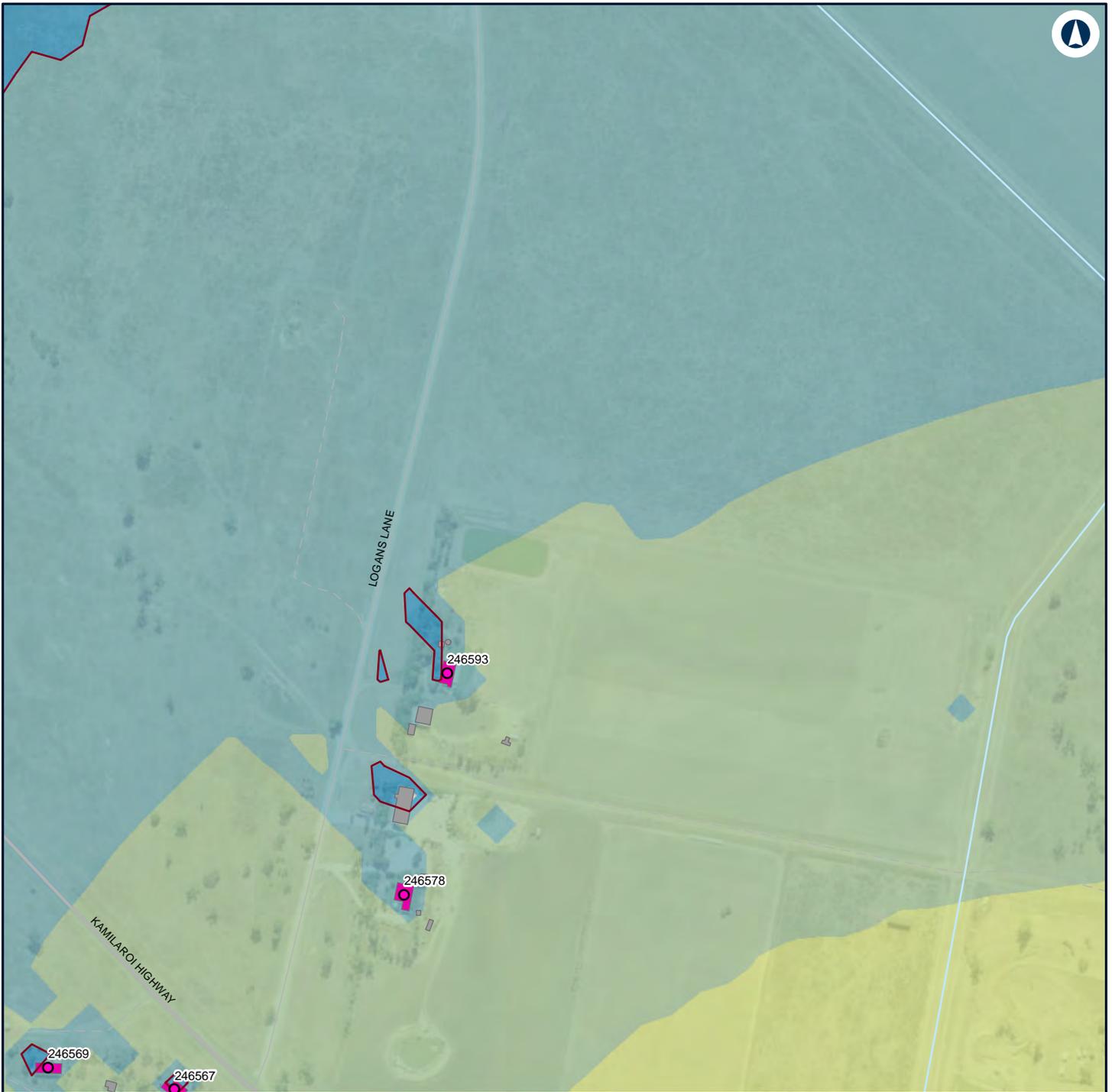
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LEGEND

Structure type	35 - 40
● Residential	40 - 45
■ Other	45 - 50
■ Residential	
Noise level (dBA L	
Aeq 15 minute)	
■	30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



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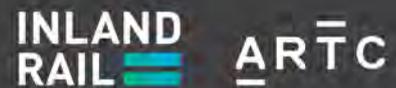
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LEGEND

- | | | |
|------------------------|--|---------|
| Construction footprint | Noise level (dBA L Aeq 15 minute) | 60 - 65 |
| Structure type | 35 - 40 | 40 - 45 |
| Active recreation | 45 - 50 | 50 - 55 |
| Active recreation | 55 - 60 | |
| Other | | |



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



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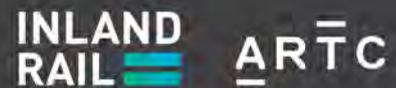
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LEGEND

Structure type

- Residential
- Other
- Residential

Noise level (dBA L

- Aeq 15 minute)
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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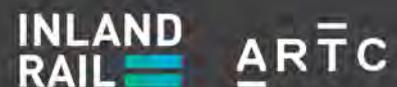
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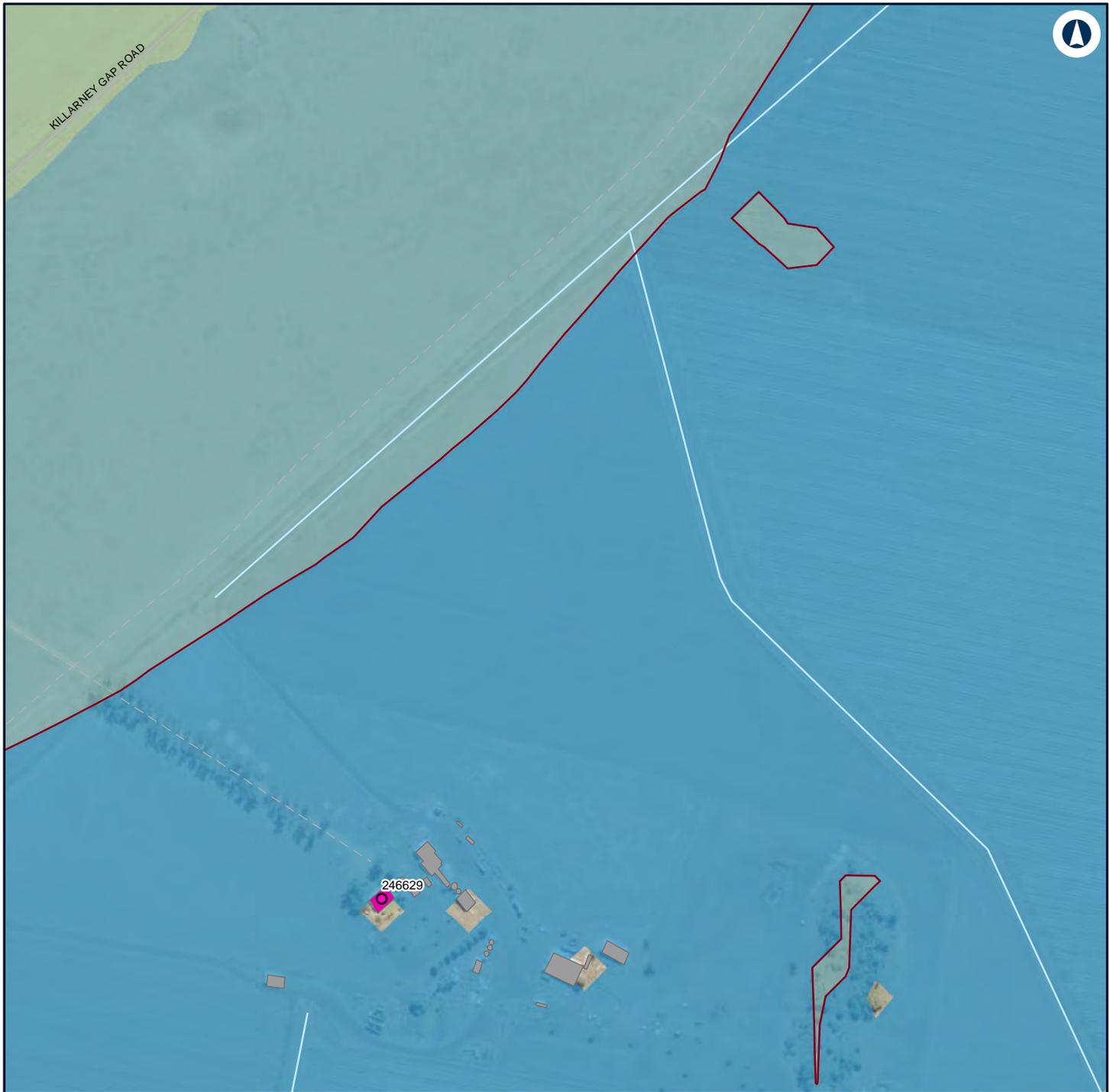
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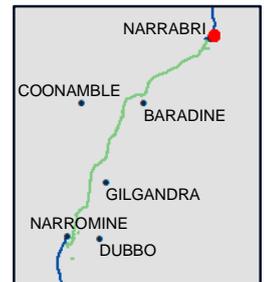


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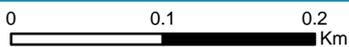
LEGEND

- Structure type**
- 35 - 40
 - 40 - 45
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



Coordinate System: GDA 1994 MGA Zone 55

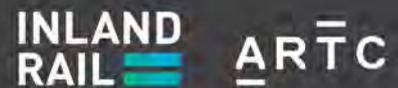
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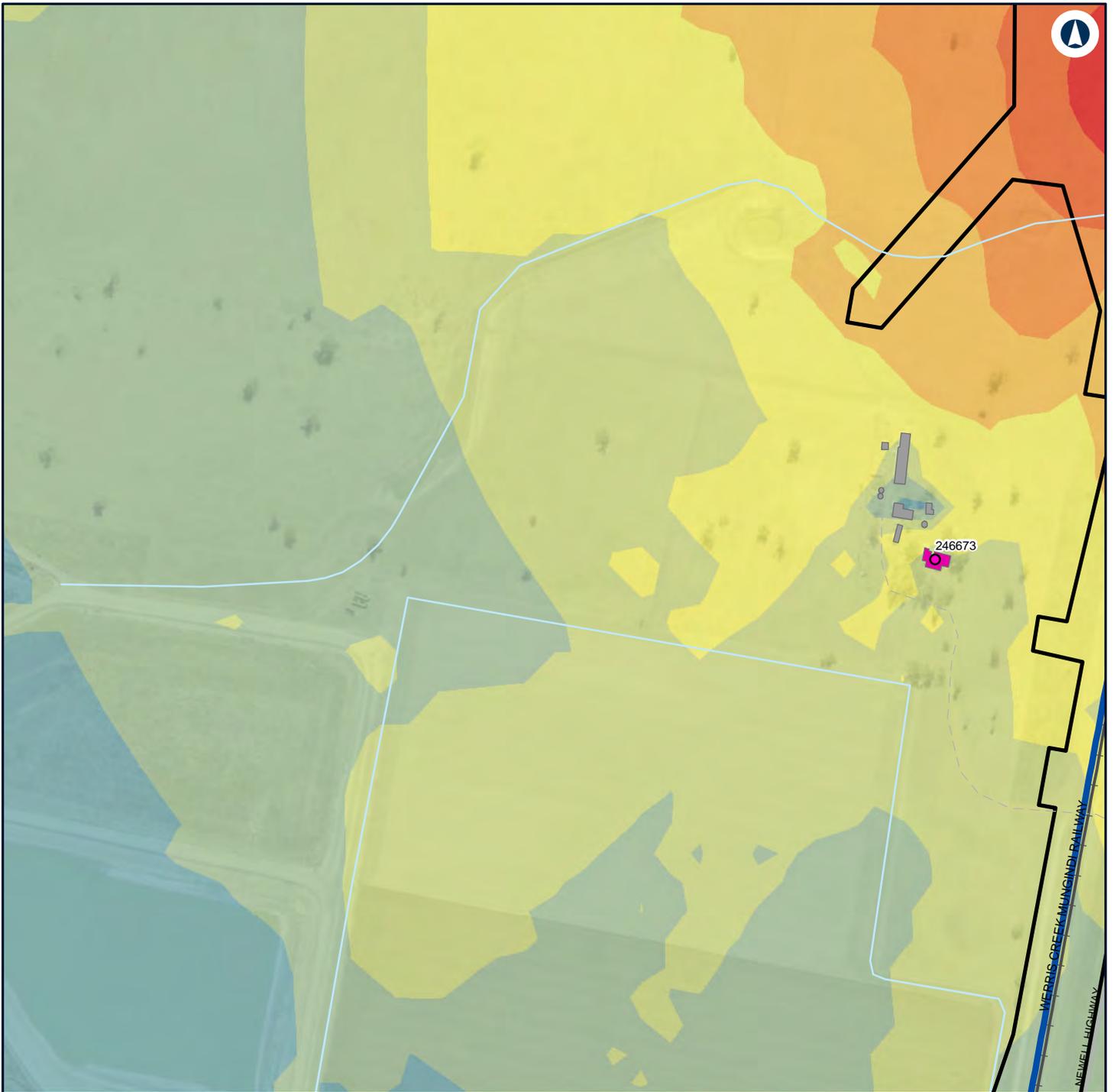
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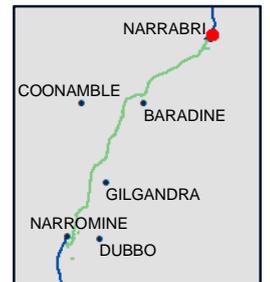


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LEGEND

- Alignment
 - Construction footprint
 - Structure type**
 - Residential
 - Other
 - Residential
- | Noise level (dBA L
Aeq 15 minute) | Noise level (dBA L) |
|---|---|
| 35 - 40 | 60 - 65 |
| 40 - 45 | 65 - 70 |
| 45 - 50 | 70 - 75 |
| 50 - 55 | |
| 55 - 60 | |



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

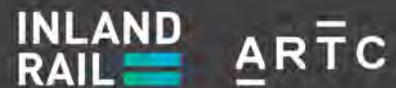


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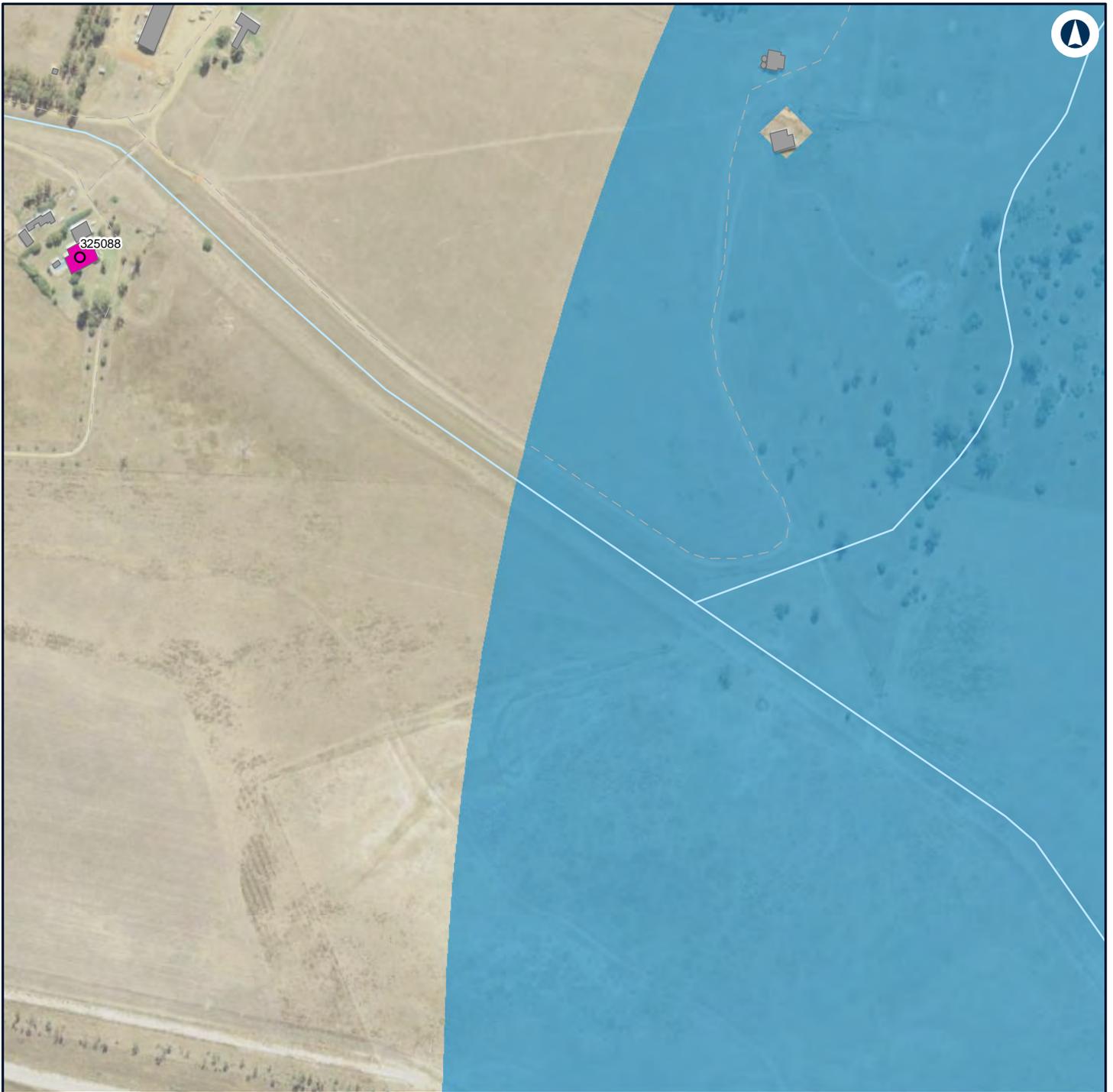
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LEGEND

Structure type

- Residential
- Other
- Residential

Noise level (dBA L

Aeq 15 minute)

- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



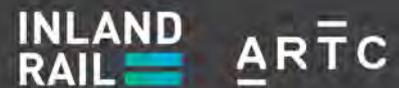
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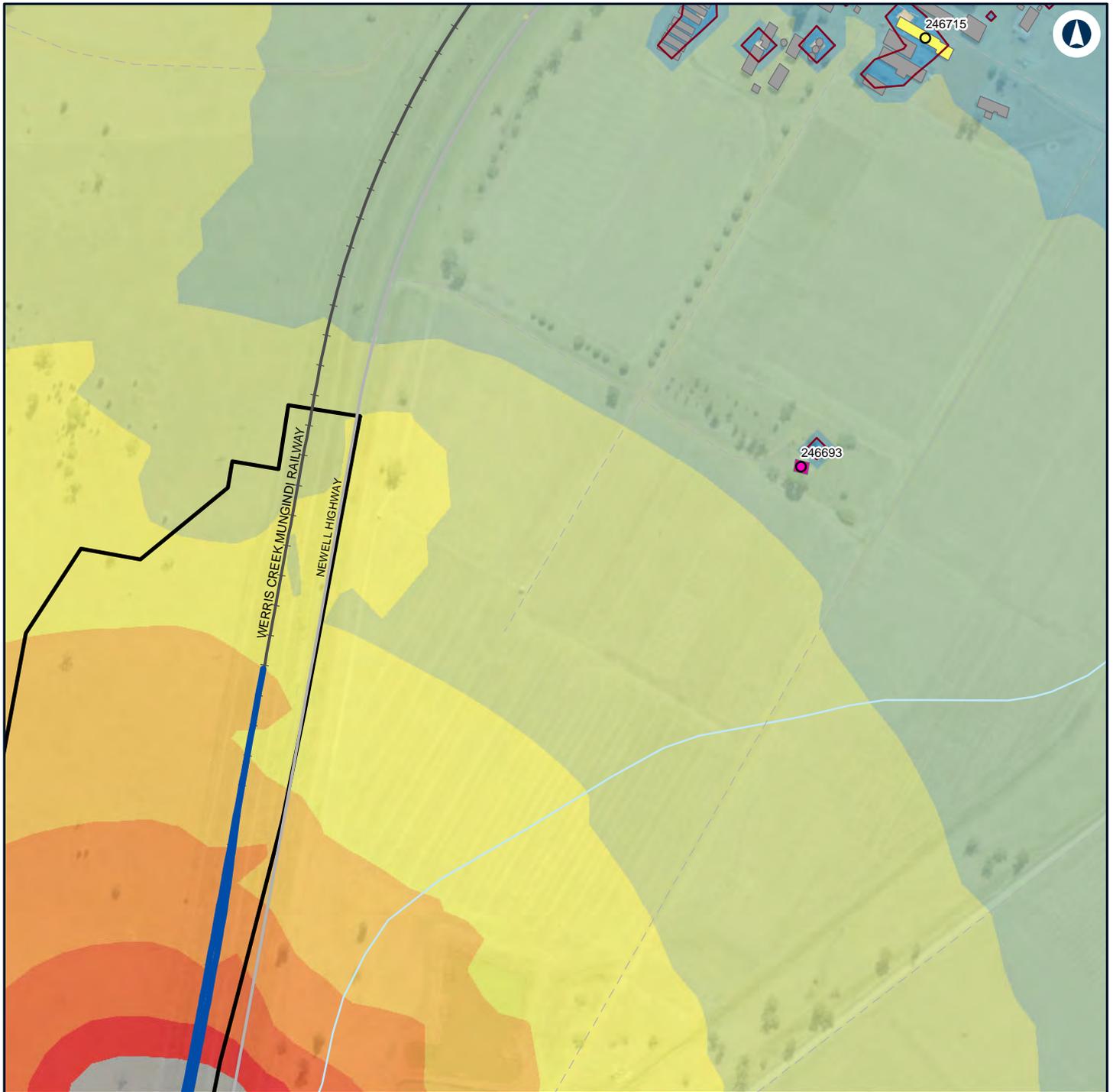
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LEGEND

- Alignment
 - Construction footprint
 - Structure type**
 - Community
 - Residential
 - Commercial/Industrial
- | | | | | | |
|--|-------------|--|---------|--|---------|
| | Community | | 40 - 45 | | > 75 |
| | Other | | 45 - 50 | | 50 - 55 |
| | Residential | | 55 - 60 | | 60 - 65 |
| Noise level (dBA L Aeq 15 minute) | | | 30 - 35 | | 65 - 70 |
| | 35 - 40 | | 70 - 75 | | |



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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Coordinate System: GDA 1994 MGA Zone 55

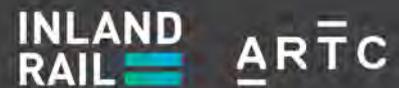
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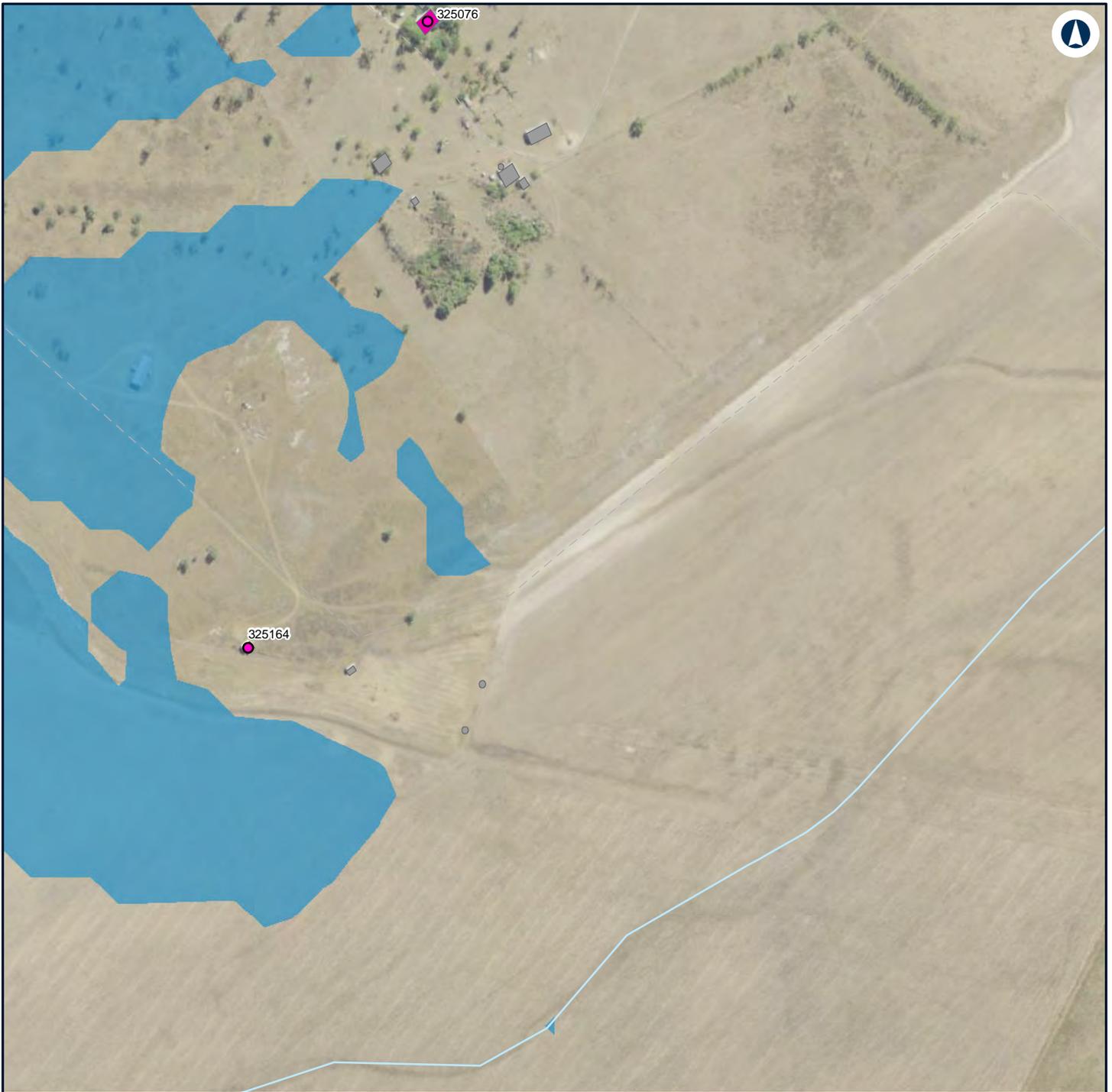
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LEGEND

Structure type

- Residential
- Other
- Residential

Noise level (dBA L

- Aeq 15 minute)**
- 30 - 35



0 0.1 0.2 Km

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LEGEND

Structure type	Residential
Community	Noise level (dBA L)
Residential	Aeq 15 minute
Commercial/Industrial	30 - 35
Community	35 - 40
Other	40 - 45
	45 - 50



0 0.1 0.2 Km

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LEGEND

Structure type

- Residential
- Other
- Residential

Noise level (dBA L

Aeq 15 minute)

- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



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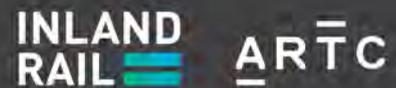
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