

# TECHNICAL REPORT

INLAND  
RAIL 

# 8

## Noise and vibration assessment – construction and other operations

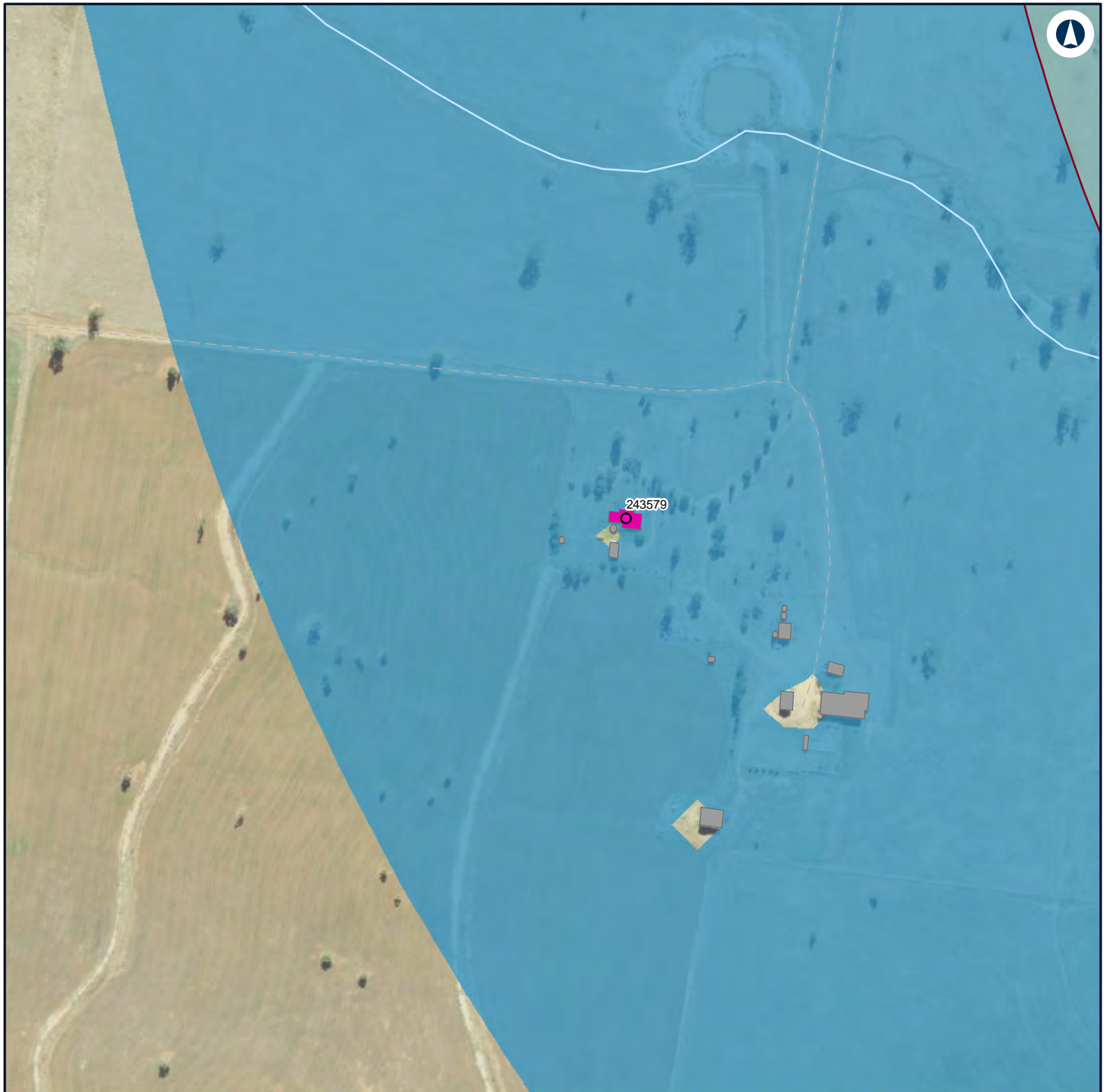
PART 4 OF 7

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

● 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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0 0.1 0.2  
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 16/07/2020

Paper: A4

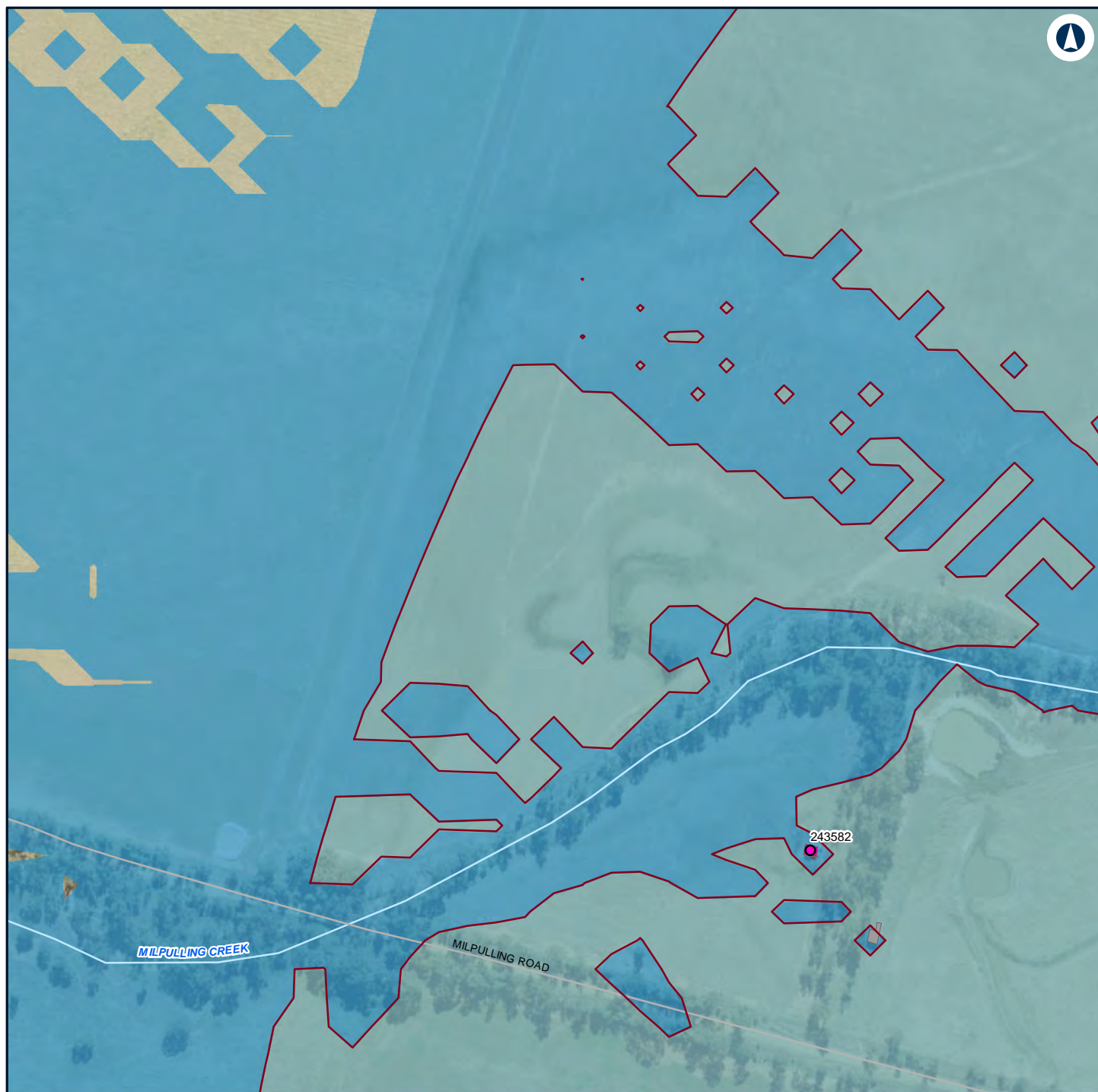
Author: GHD

Scale: 1:5,000

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

**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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0 0.1 0.2  
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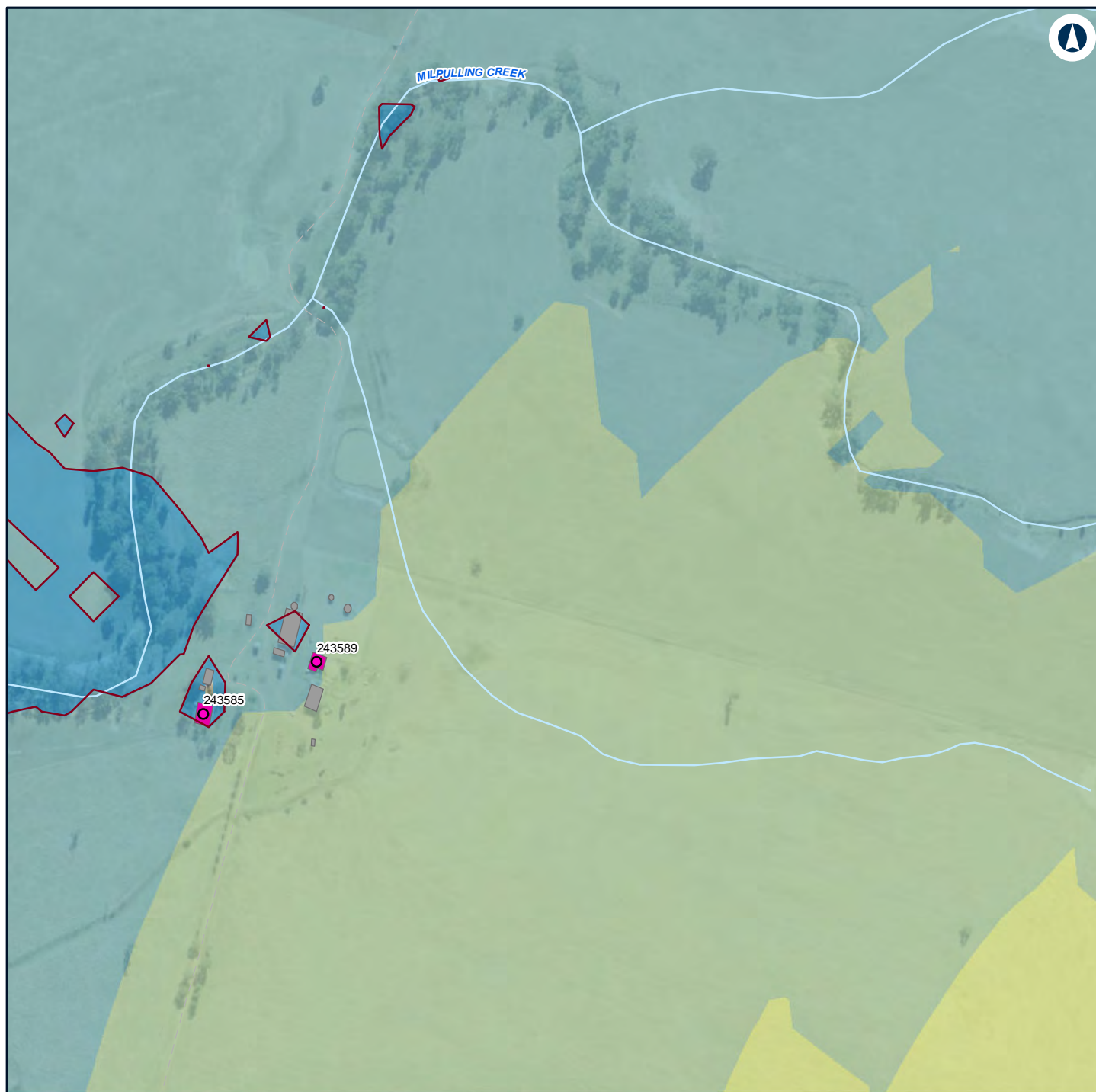
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**INLAND RAIL** **ARTC**

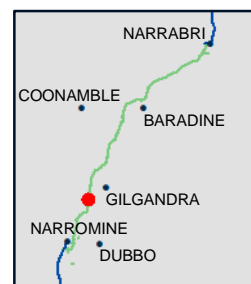
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## LEGEND

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



## NARROMINE TO NARRABRI

## Construction noise contours, Scenario ROAD03 - Road Earthworks

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0 0.1 0.2  
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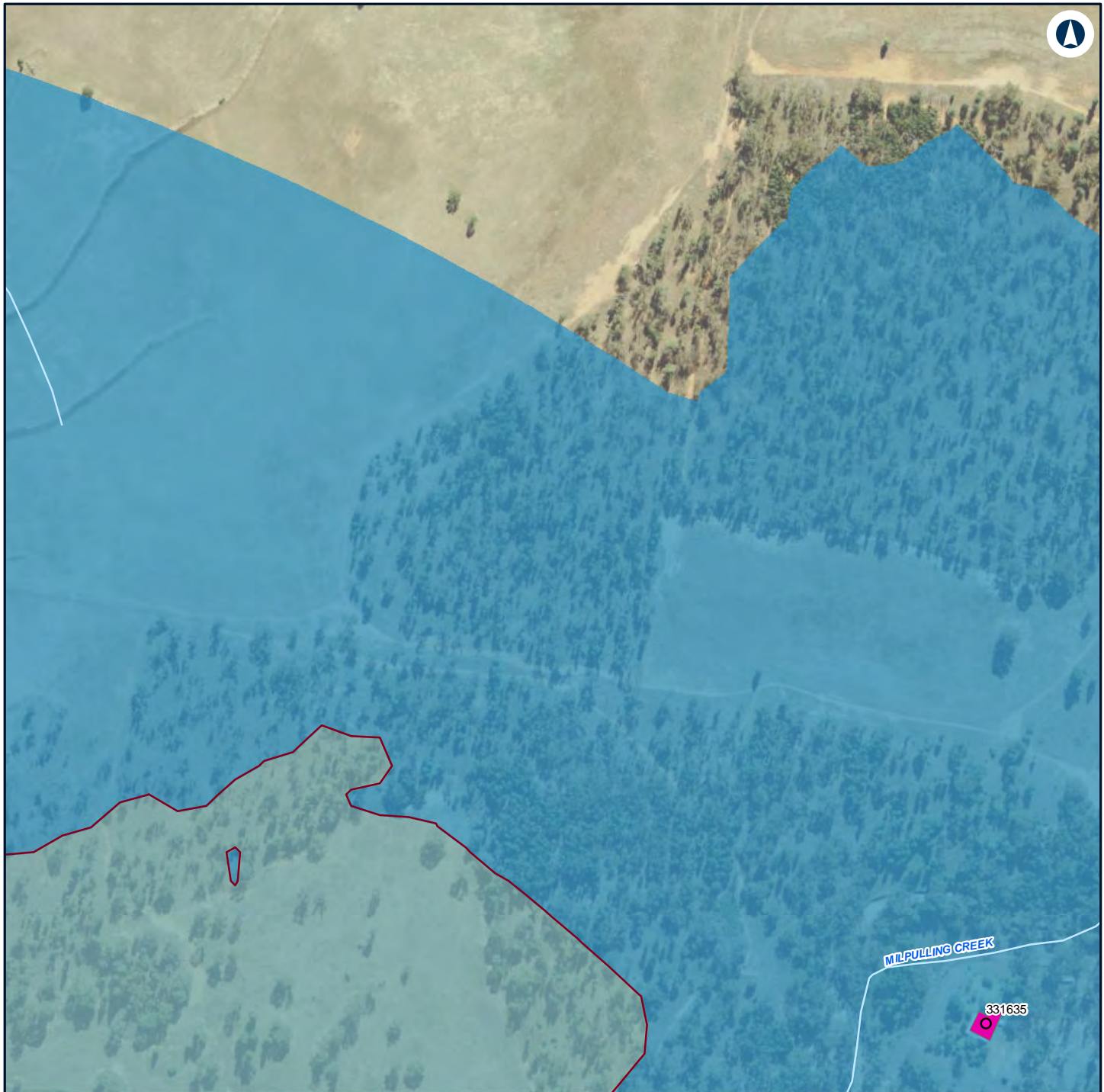
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## LEGEND

### 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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## LEGEND

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



## NARROMINE TO NARRABRI

## Construction noise contours, Scenario ROAD03 - Road Earthworks

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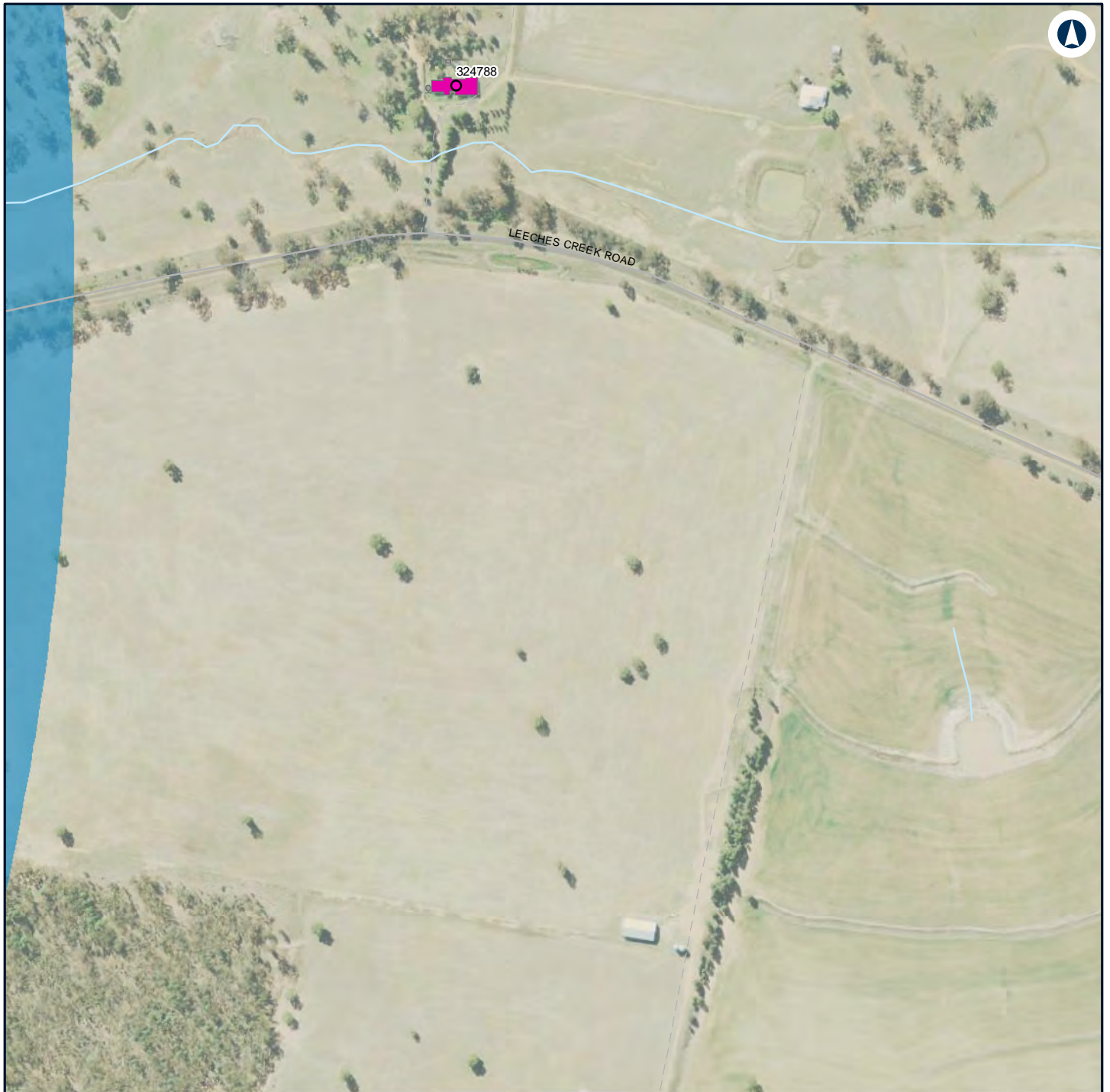
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## LEGEND

### 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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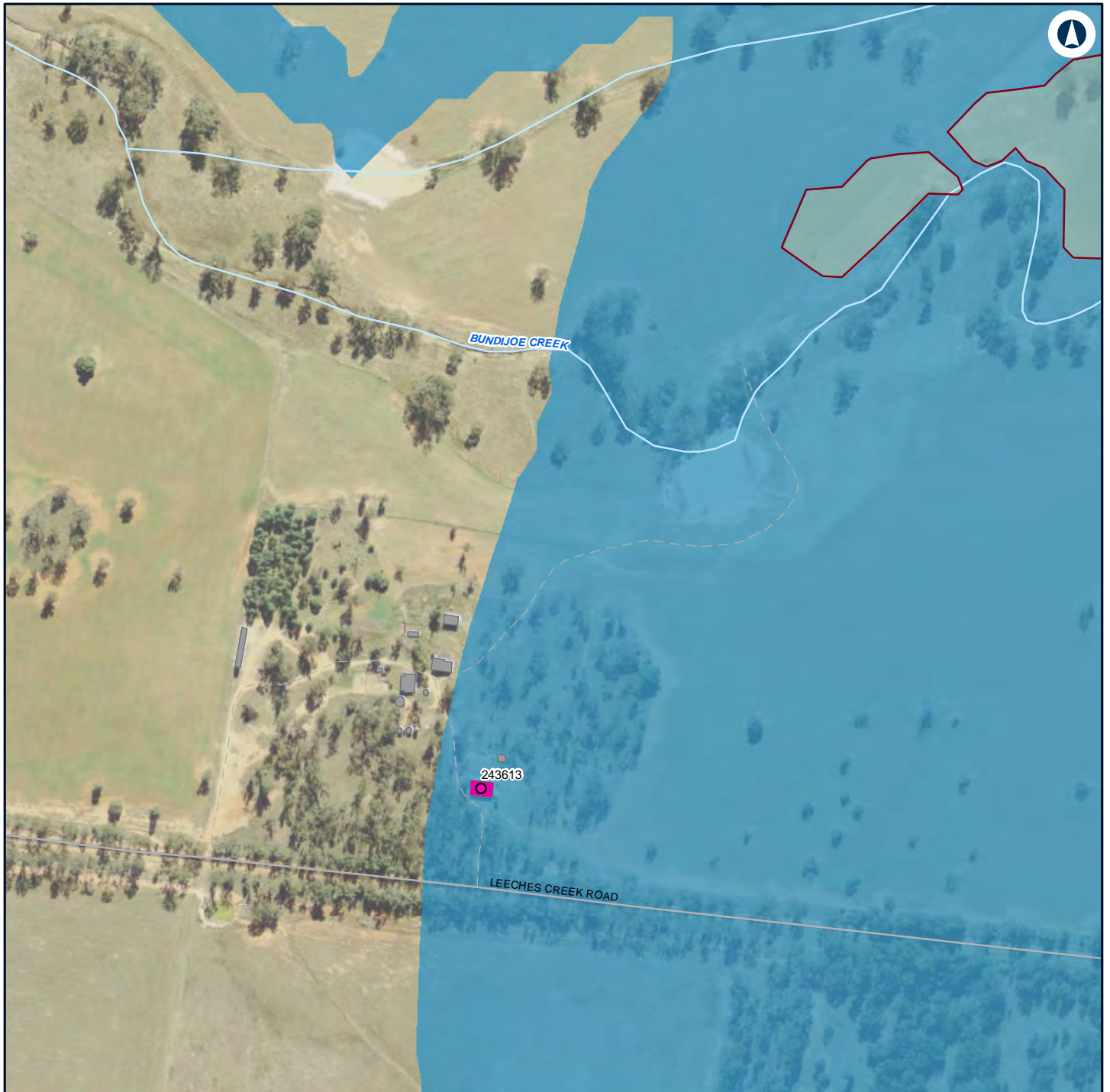
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## LEGEND

**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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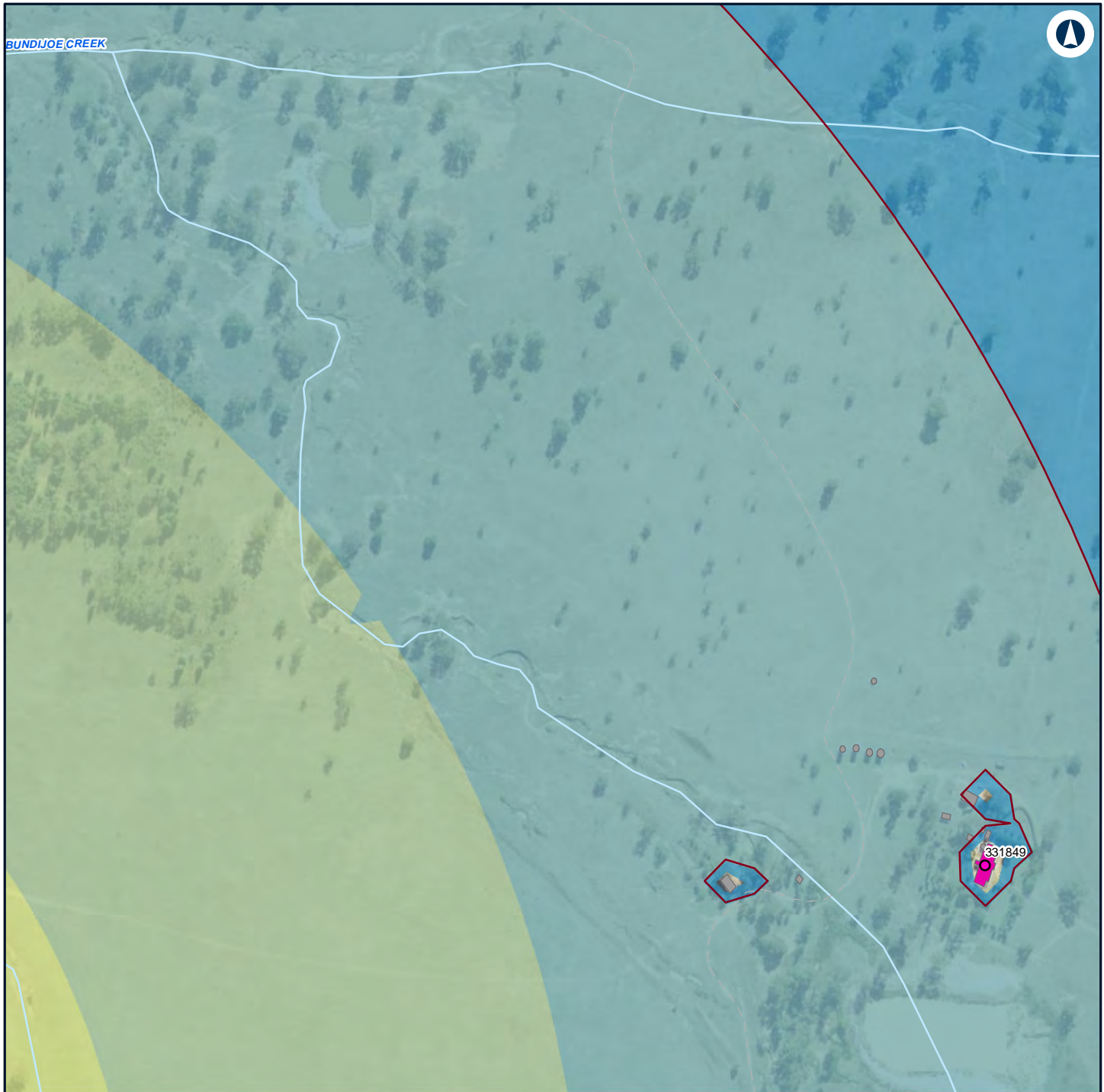
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#### LEGEND

<b>Structure type</b>		35 - 40
● Residential		40 - 45
■ Other		45 - 50
■ Residential		
<b>Noise level (dBA L Aeq 15 minute)</b>		
		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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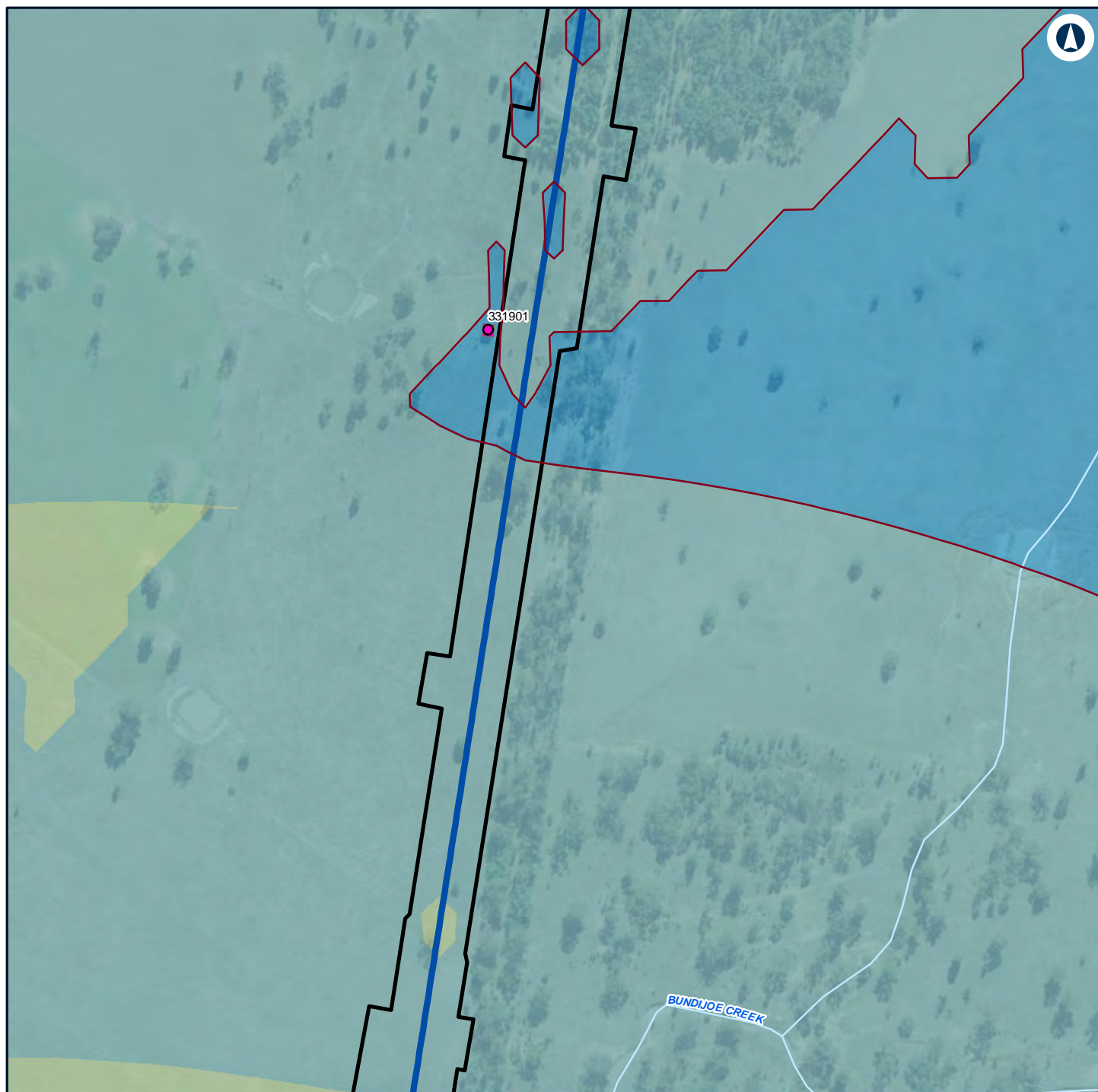
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#### LEGEND

Alignment

Construction footprint

Structure type

Residential

Residential

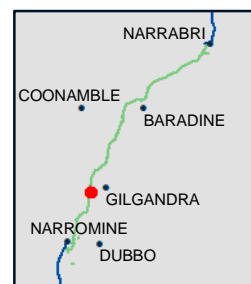
Noise level (dBA L

Aeq 15 minute)

30 - 35

35 - 40

40 - 45



#### NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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0 0.1 0.2  
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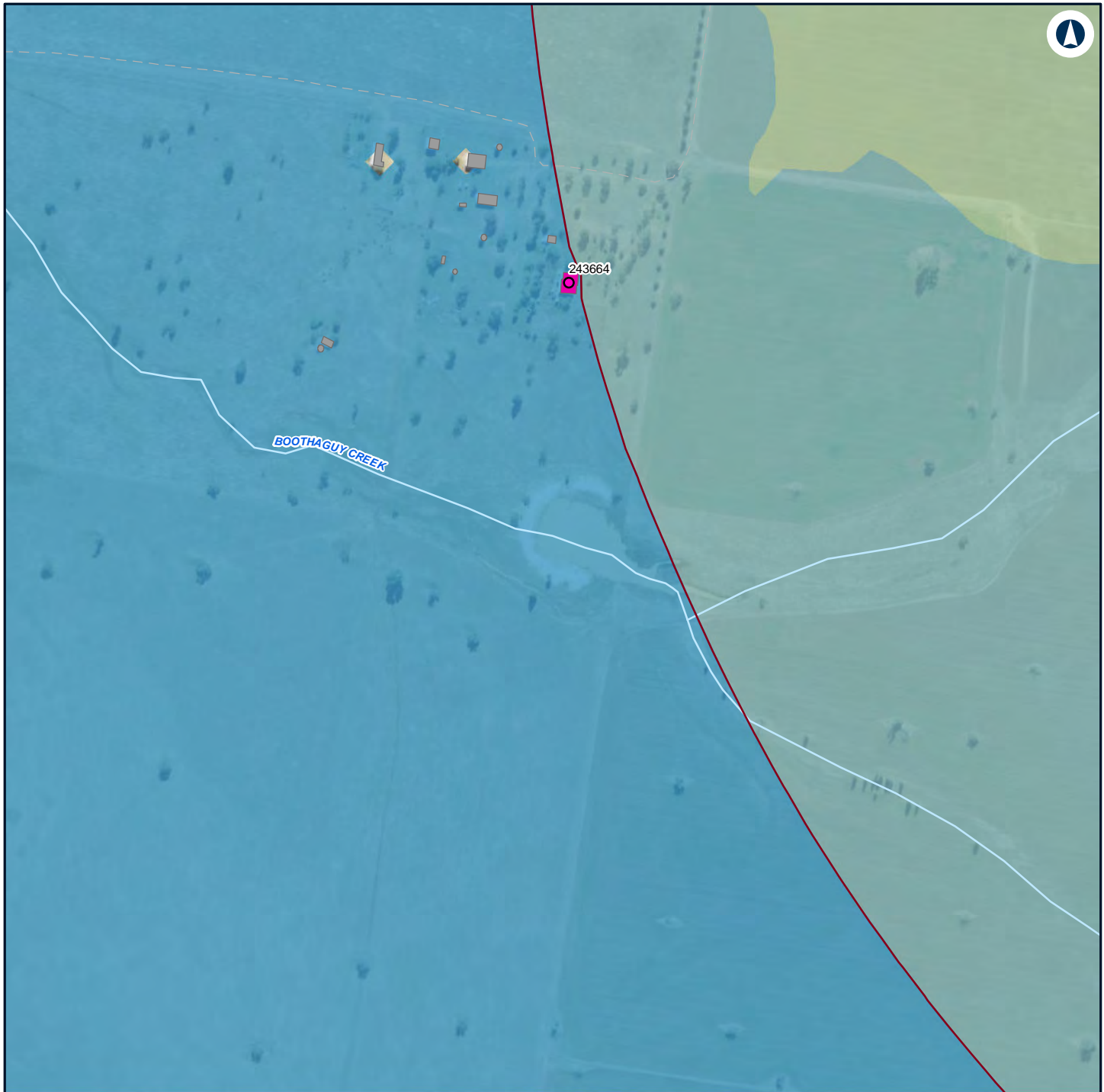
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#### LEGEND

- 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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0 0.1 0.2  
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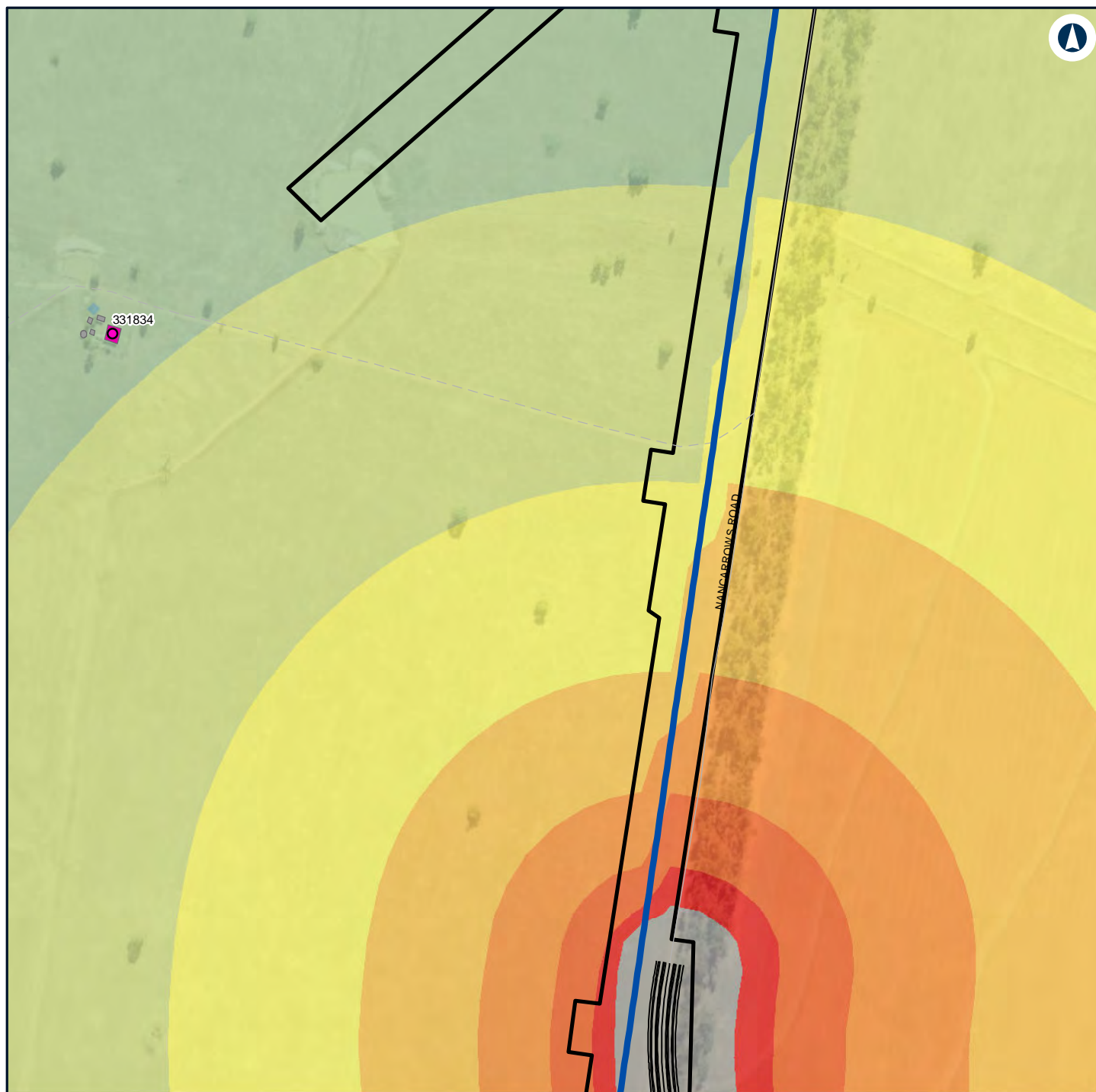
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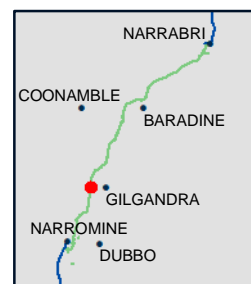
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#### LEGEND

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



#### NARROMINE TO NARRABRI

#### Construction noise contours, Scenario ROAD03 - Road Earthworks

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0 0.1 0.2  
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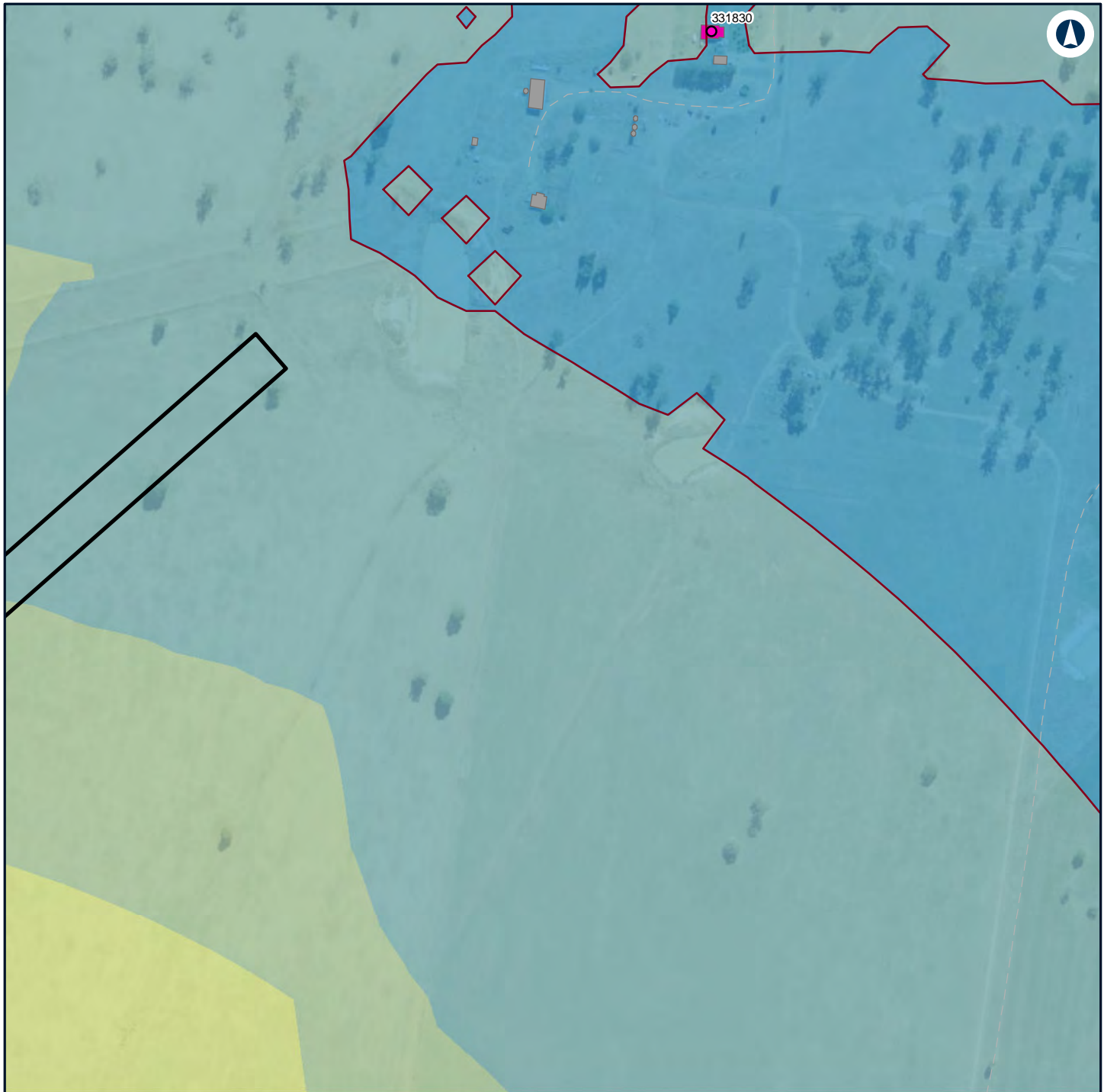
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#### LEGEND

Construction footprint

#### Structure type

- Residential
- Other
- Residential

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

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



#### 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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## LEGEND

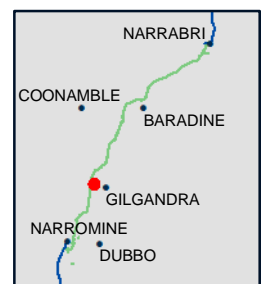
### Structure type

- 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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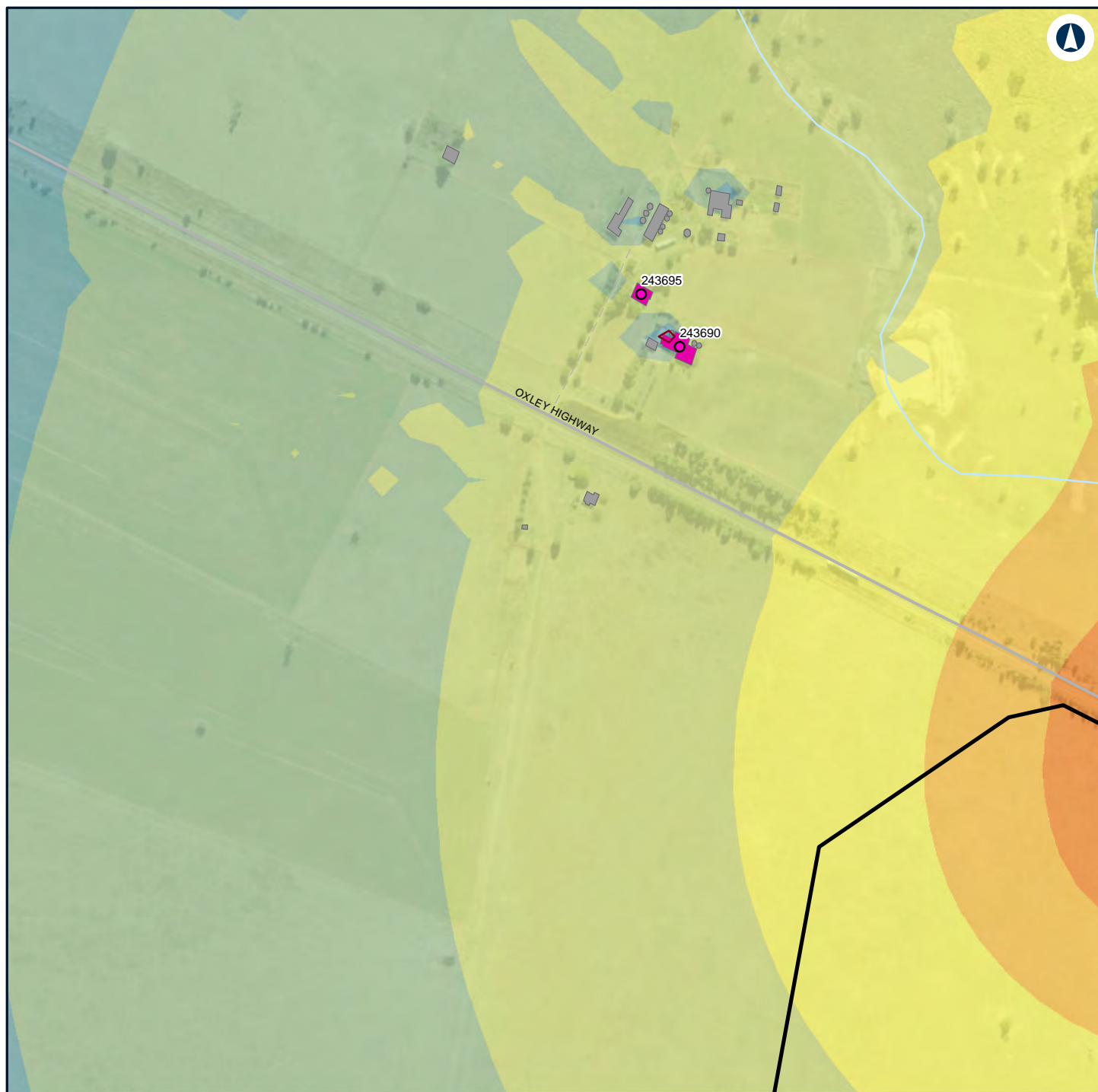
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#### LEGEND

Construction footprint

#### Structure type

Residential

Other

Residential

**Noise level (dBA L 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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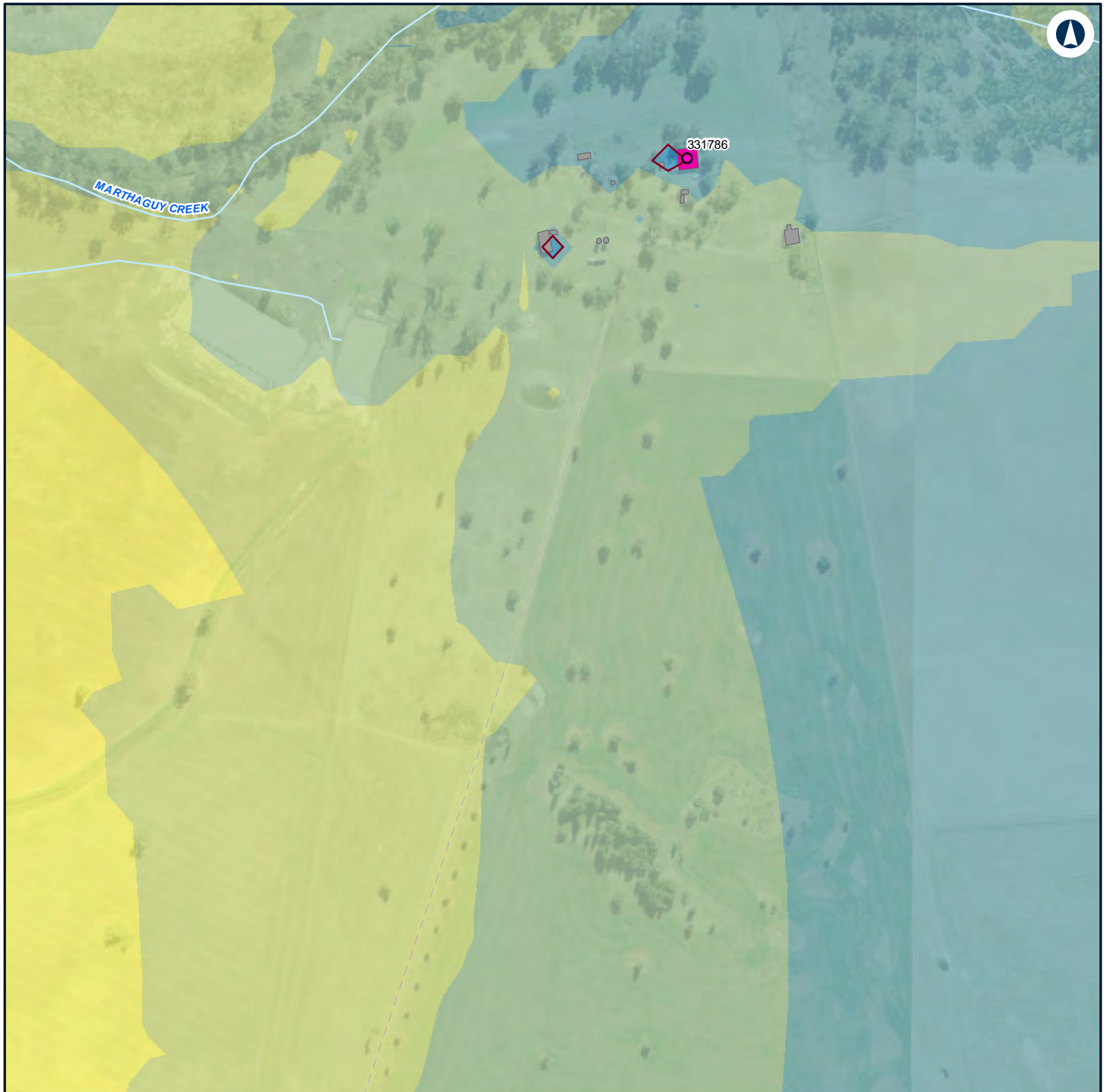
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#### LEGEND

<b>Structure type</b>	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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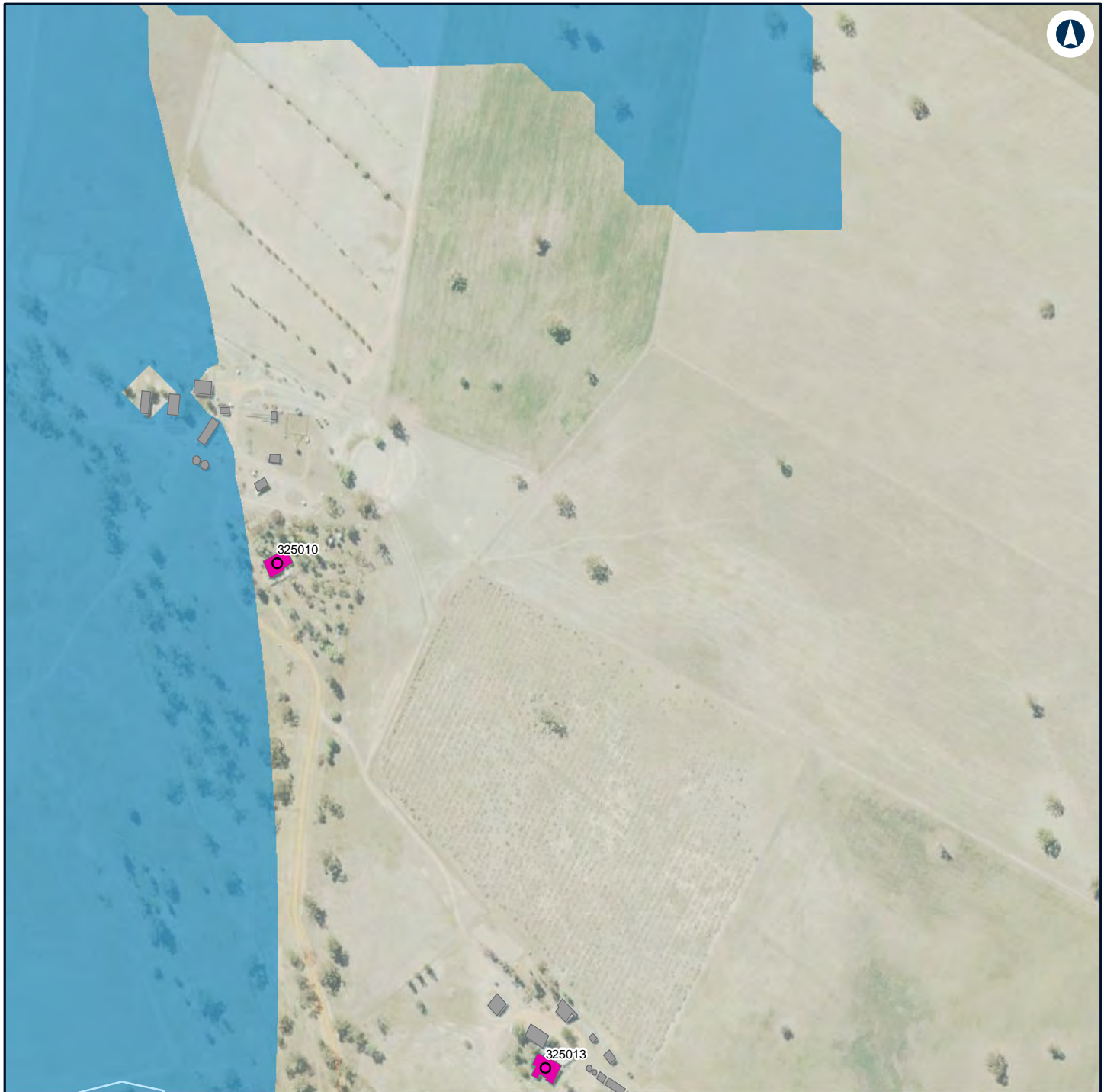
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## LEGEND

### Structure type

- Residential
- Other
- Residential

### Noise level (dBA L

Aeq 15 minute)

30 - 35



## NARROMINE TO NARRABRI

## Construction noise contours, Scenario ROAD03 - Road Earthworks

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## LEGEND

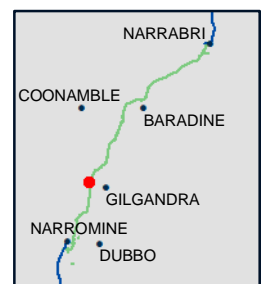
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### Noise level (dBA L

Aeq 15 minute)

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## NARROMINE TO NARRABRI

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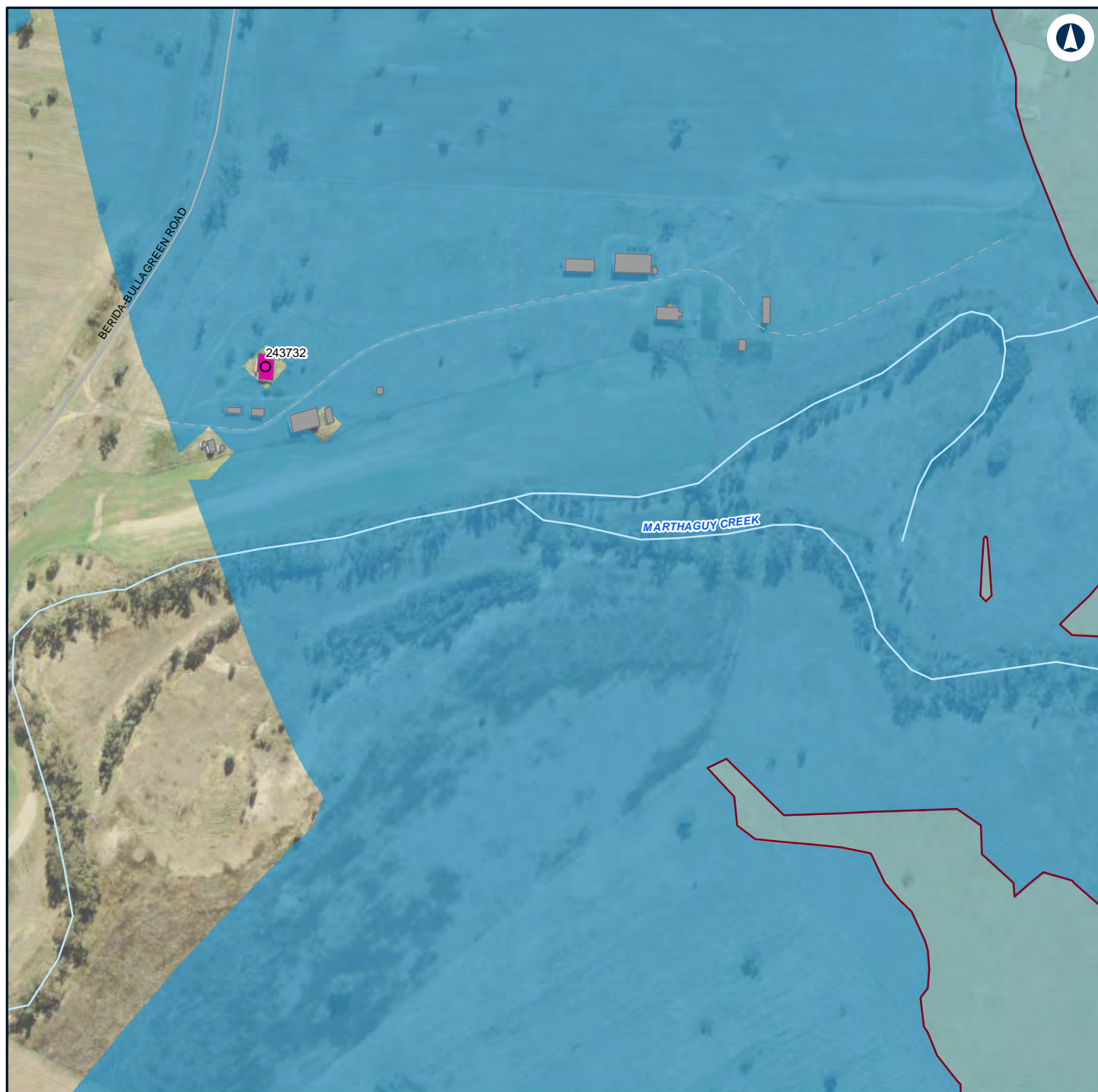
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## LEGEND

**Structure type** 35 - 40

Residential

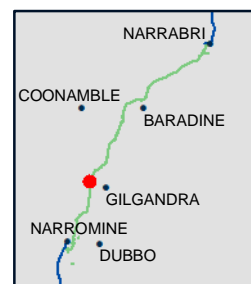
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Residential

**Noise level (dBA L**

Aeq 15 minute)

30 - 35



## NARROMINE TO NARRABRI

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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 121 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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0 0.1 0.2  
Km

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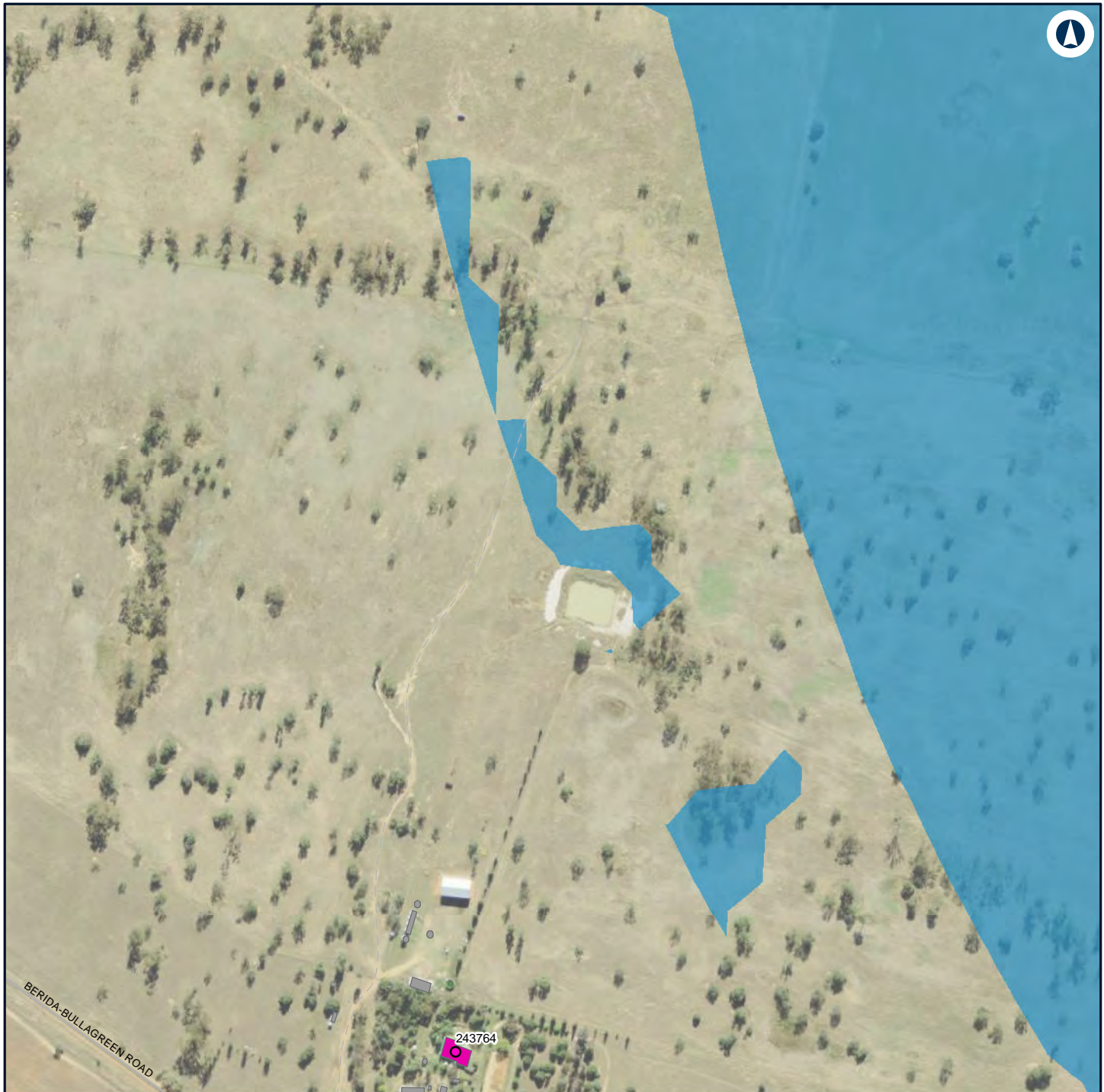
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Scale: 1:5,000

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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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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



0                      0.1                      0.2

————— Km

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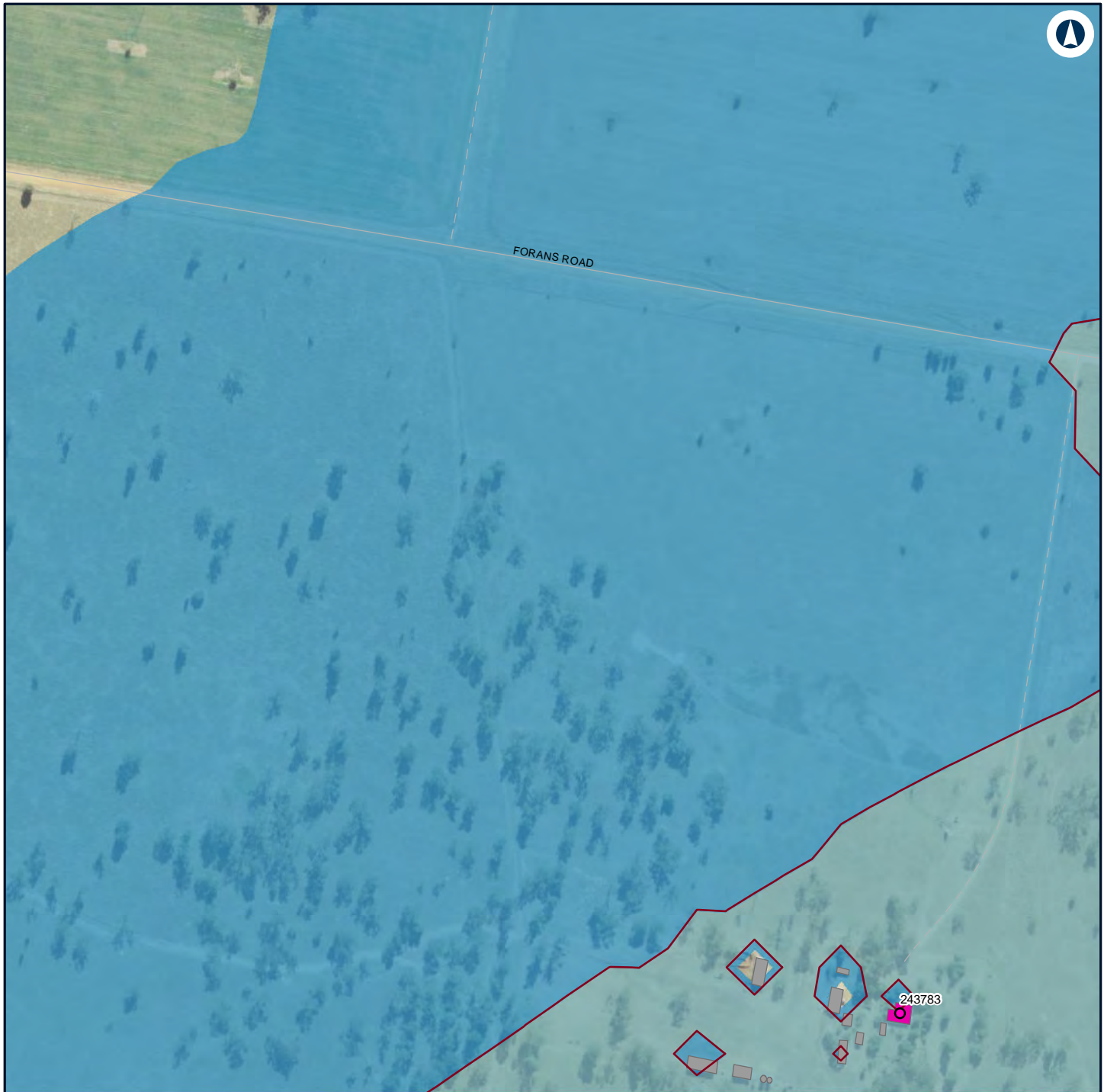
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#### LEGEND

**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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0 0.1 0.2  
Km

Coordinate System: GDA 1994 MGA Zone 55

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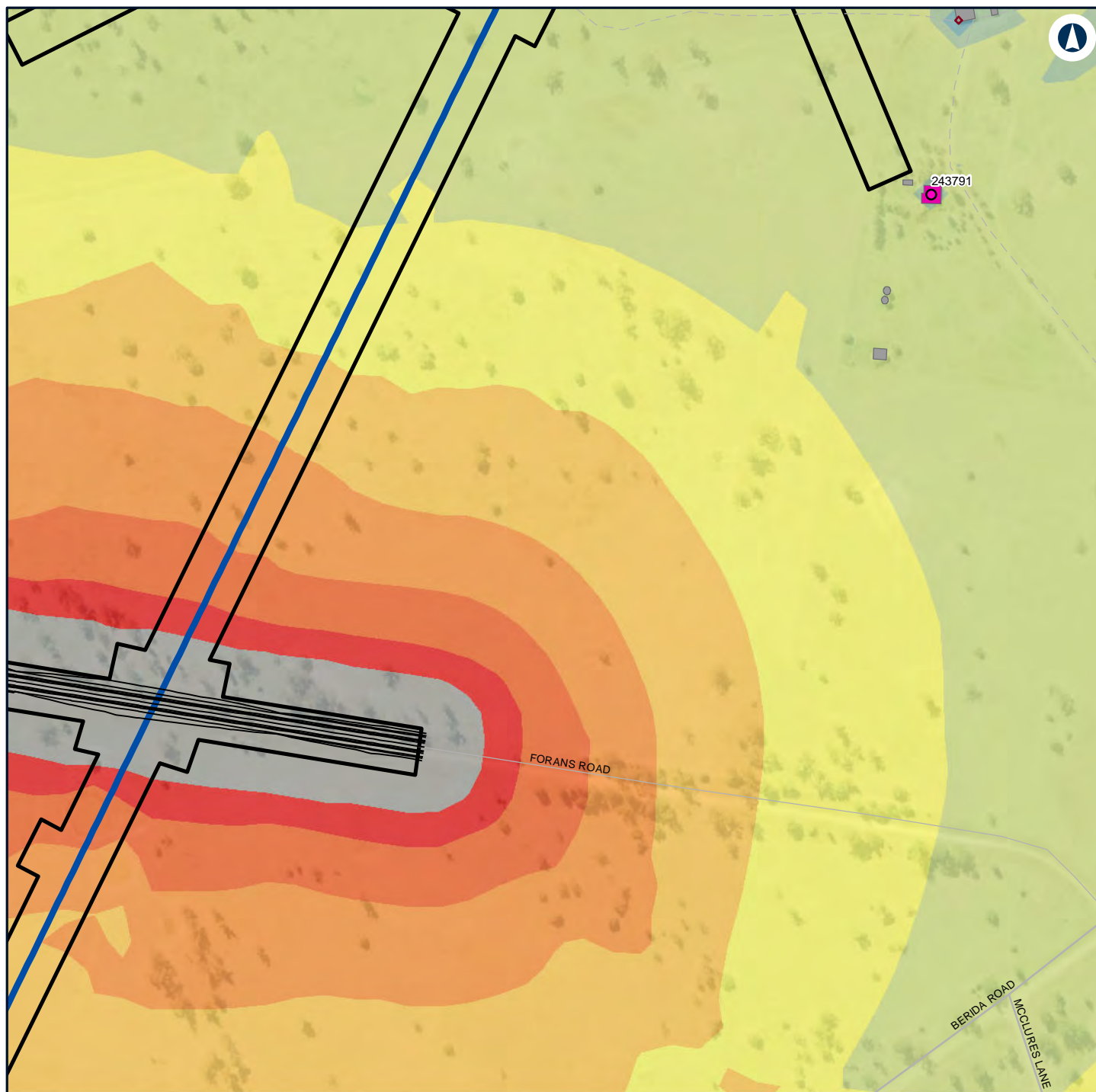
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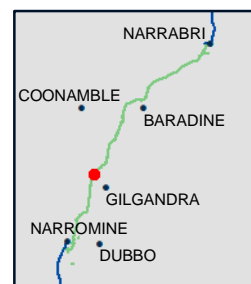
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#### LEGEND

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



#### NARROMINE TO NARRABRI

#### Construction noise contours, Scenario ROAD03 - Road Earthworks

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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

Appendix G - Page 127 of 304

0 0.1 0.2 Km

Coordinate System: GDA 1994 MGA Zone 55

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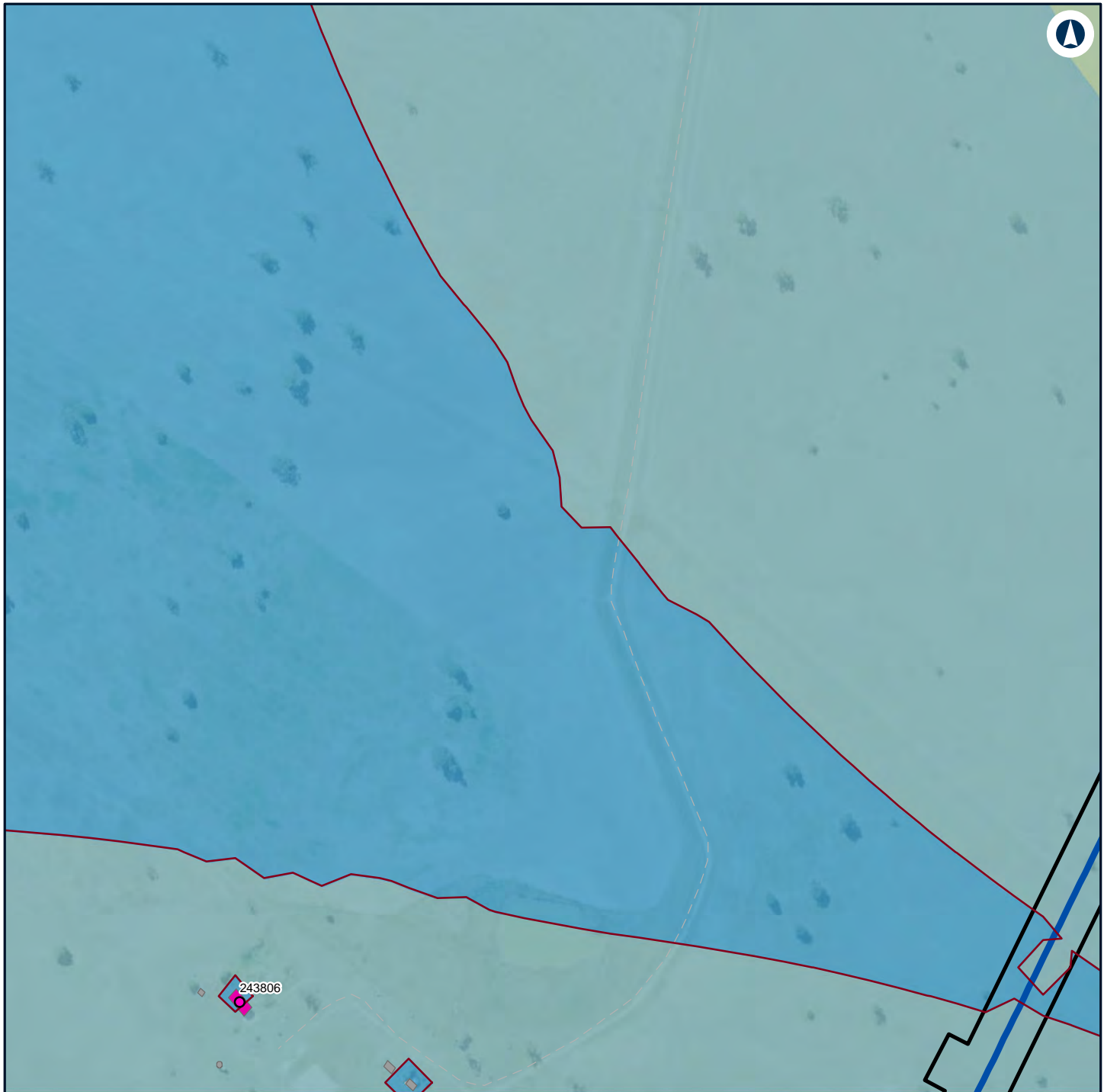
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#### LEGEND

Alignment

Construction footprint

Structure type

Residential

Other

Residential

Noise level (dBA L

Aeq 15 minute)

30 - 35

35 - 40

40 - 45



#### NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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0 0.1 0.2 Km

Coordinate System: GDA 1994 MGA Zone 55

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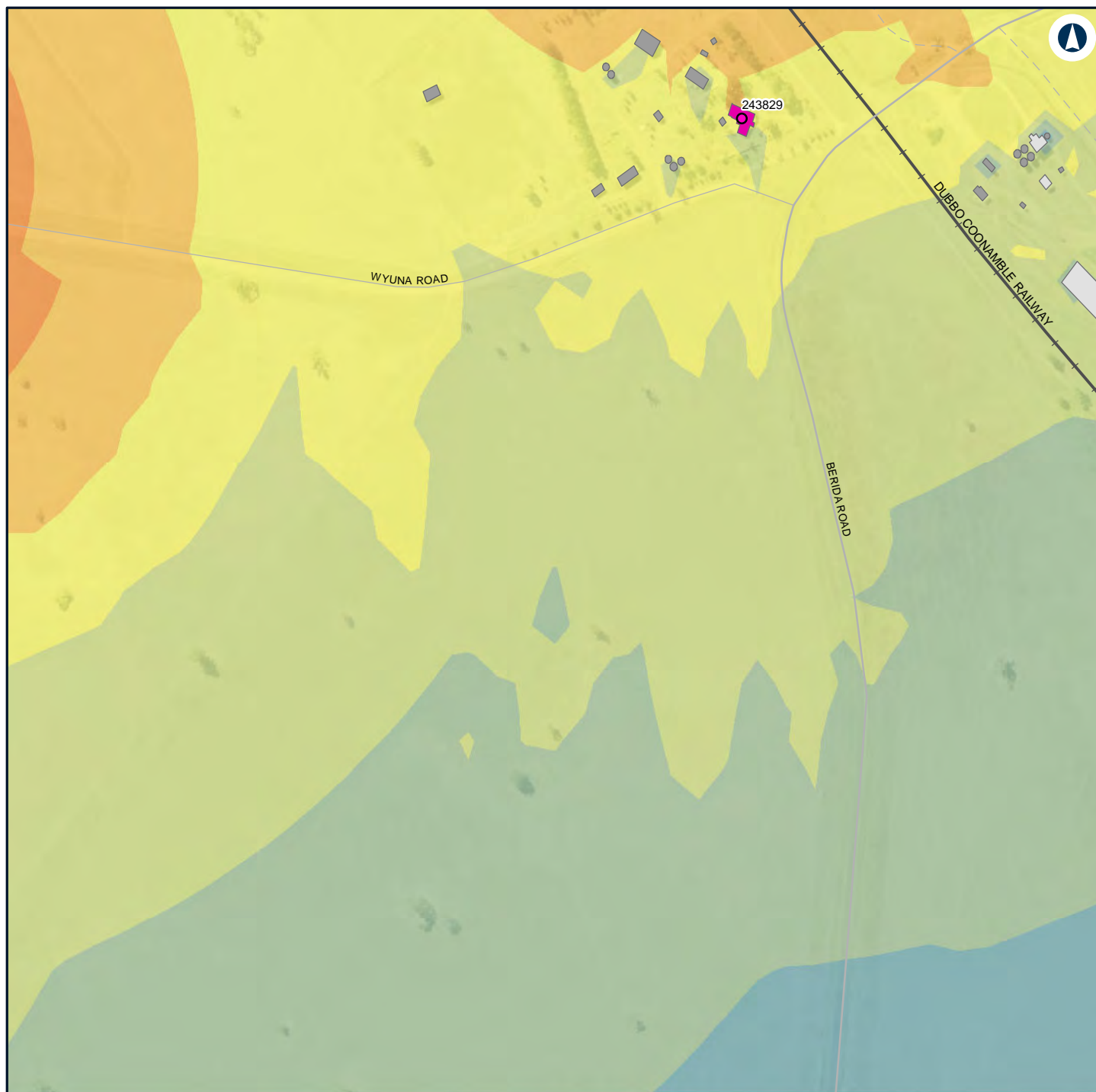
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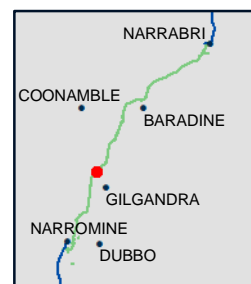
## LEGEND

### Structure type

- Residential
- Commercial/Industrial
- Other
- Residential

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

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



## NARROMINE TO NARRABRI

## Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 129 of 304

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

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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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0      0.1      0.2  
Km

Coordinate System: GDA 1994 MGA Zone 55

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#### LEGEND

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



#### NARROMINE TO NARRABRI

#### Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 132 of 304

0 0.1 0.2 Km

Coordinate System: GDA 1994 MGA Zone 55

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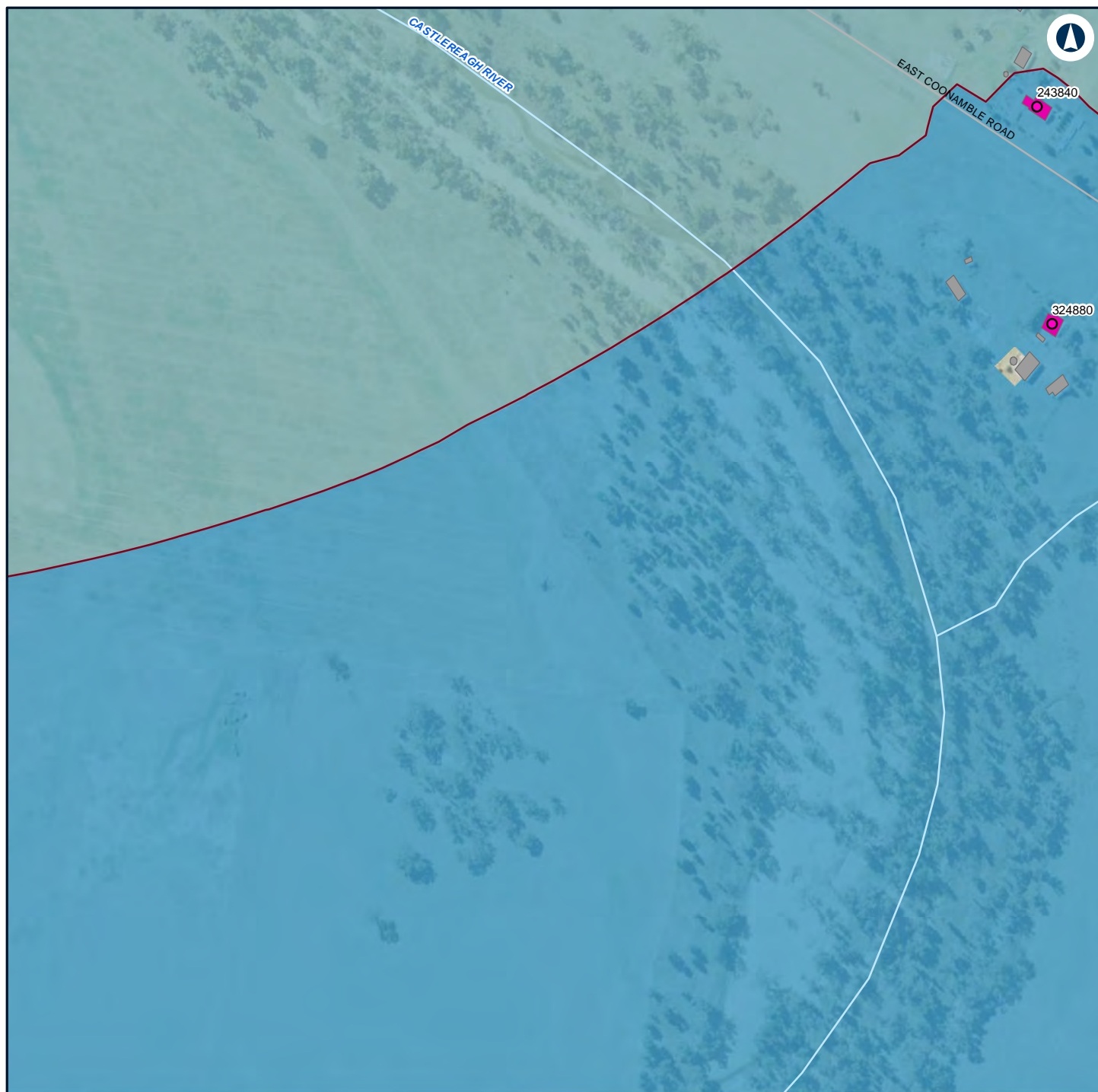
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## LEGEND

**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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0 0.1 0.2  
Km

Coordinate System: GDA 1994 MGA Zone 55

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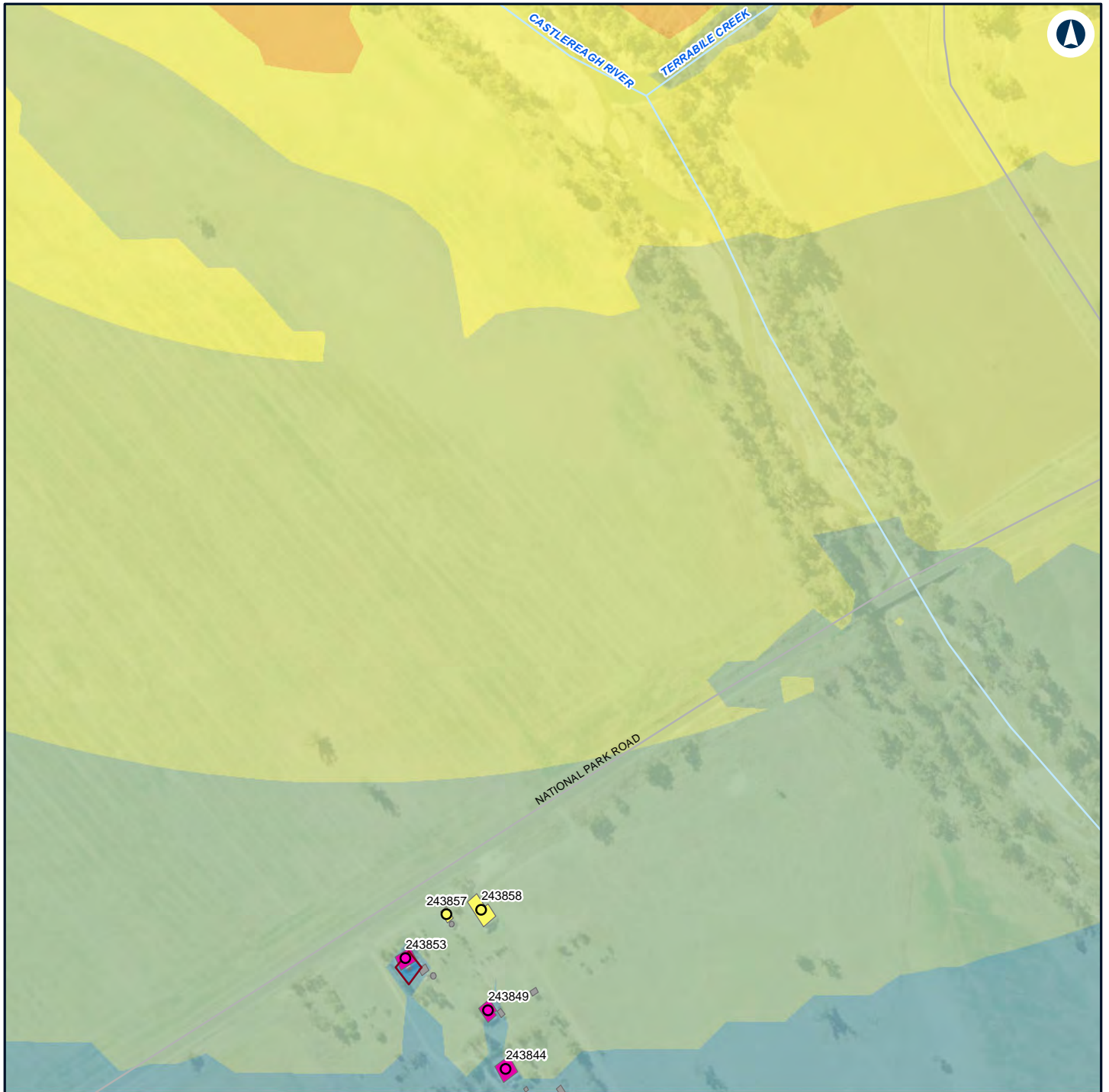
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#### LEGEND

Structure type	Noise level (dBA L Aeq 15 minute)
<span style="color: yellow;">●</span> Community	<span style="background-color: yellow;"> </span> 55 - 60
<span style="color: magenta;">●</span> Residential	<span style="background-color: lightblue;"> </span> 30 - 35
<span style="background-color: yellow;"> </span> Community	<span style="background-color: lightgreen;"> </span> 35 - 40
<span style="background-color: grey;"> </span> Other	<span style="background-color: lightyellow;"> </span> 40 - 45
<span style="background-color: magenta;"> </span> Residential	<span style="background-color: yellowgreen;"> </span> 45 - 50
	<span style="background-color: yellow;"> </span> 50 - 55



#### NARROMINE TO NARRABRI

#### Construction noise contours, Scenario ROAD03 - Road Earthworks

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0 0.1 0.2  
Km

Coordinate System: GDA 1994 MGA Zone 55

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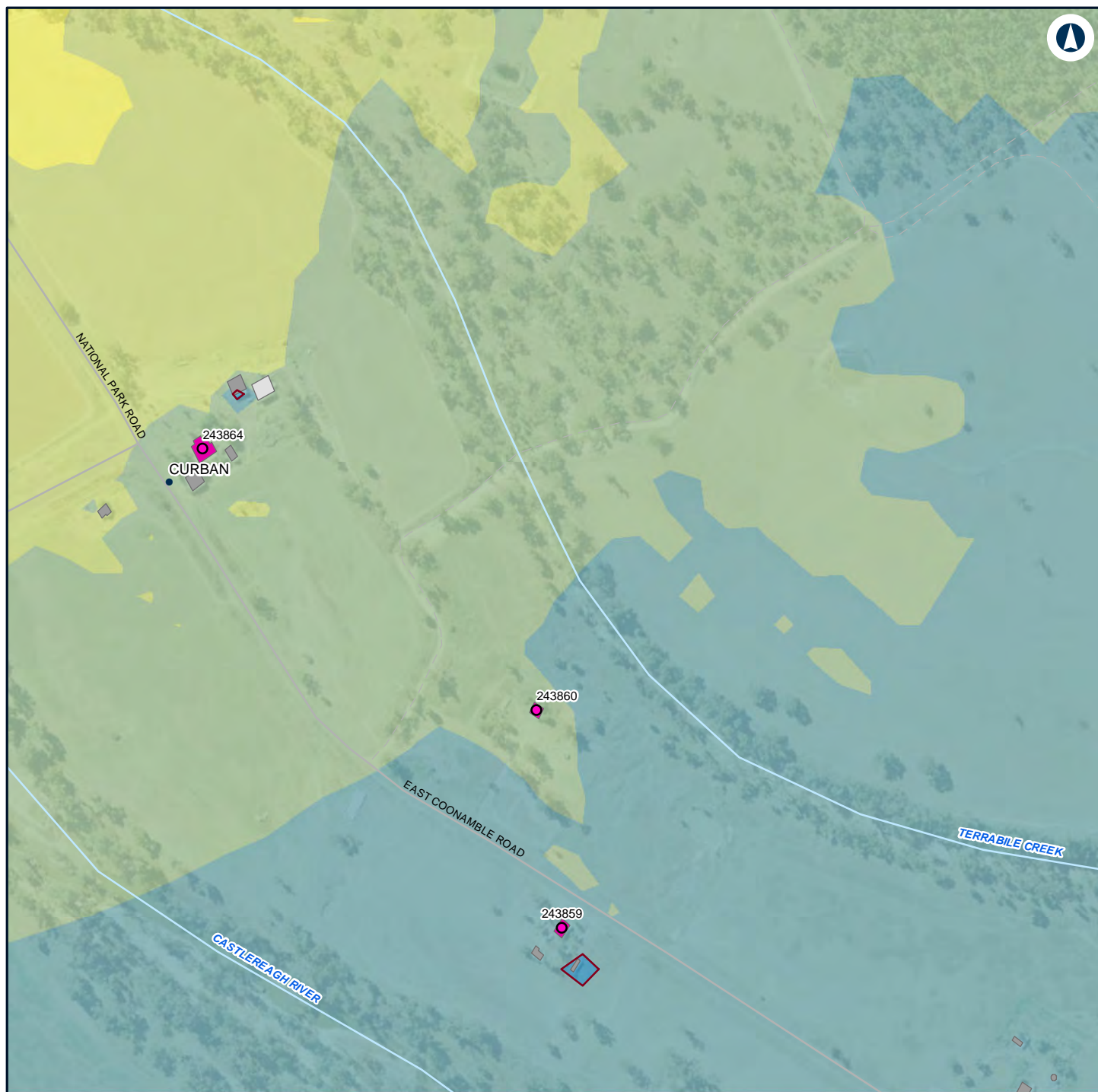
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## LEGEND

### Structure type

- Active recreation
- Residential
- Active recreation
- Commercial/Industrial
- Other

Residential

50 - 55

### 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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0 0.1 0.2  
Km

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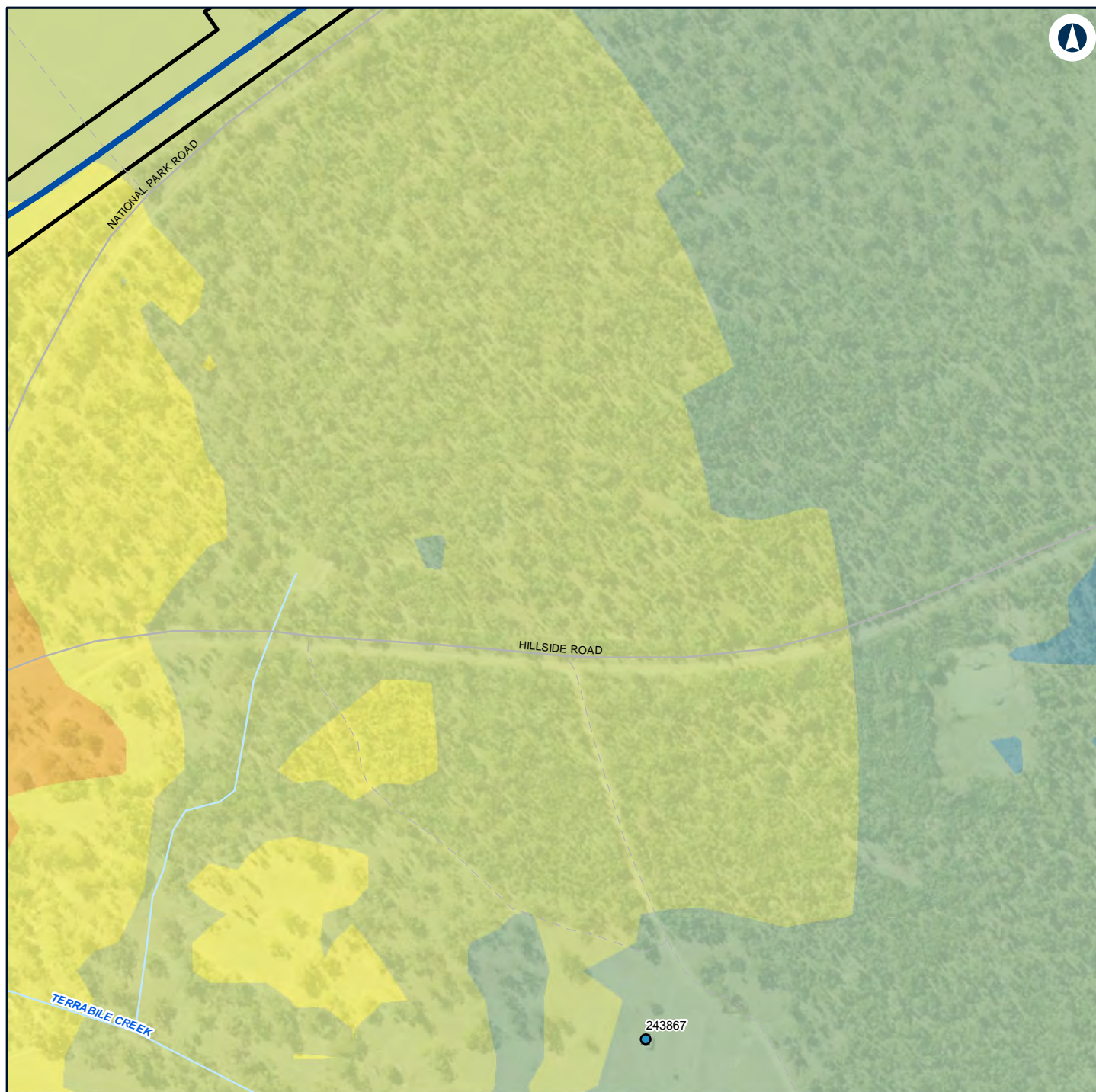
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#### LEGEND

Alignment

Construction footprint

#### Structure type

Active recreation

Active recreation

#### Noise level (dBA L

Aeq 15 minute)

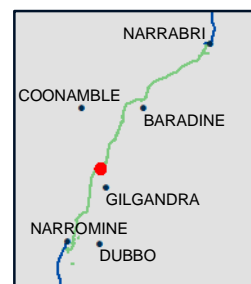
35 - 40

40 - 45

45 - 50

50 - 55

55 - 60



#### NARROMINE TO NARRABRI

#### Construction noise contours, Scenario ROAD03 - Road Earthworks

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0 0.1 0.2  
Km

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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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0 0.1 0.2  
Km

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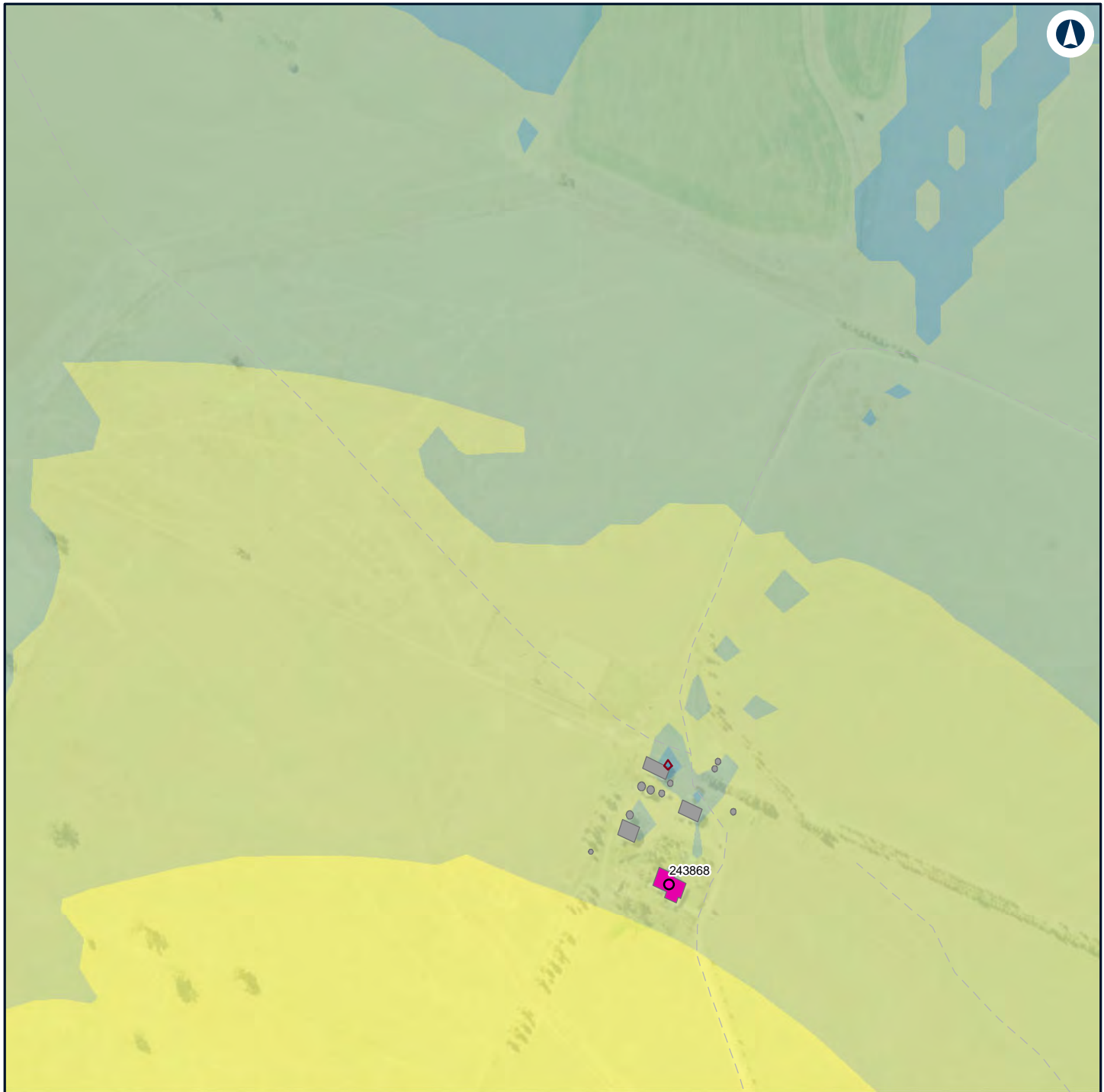
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#### LEGEND

##### Structure type

	Residential		35 - 40
	Other		40 - 45
	Residential		45 - 50
			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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0 0.1 0.2  
Km

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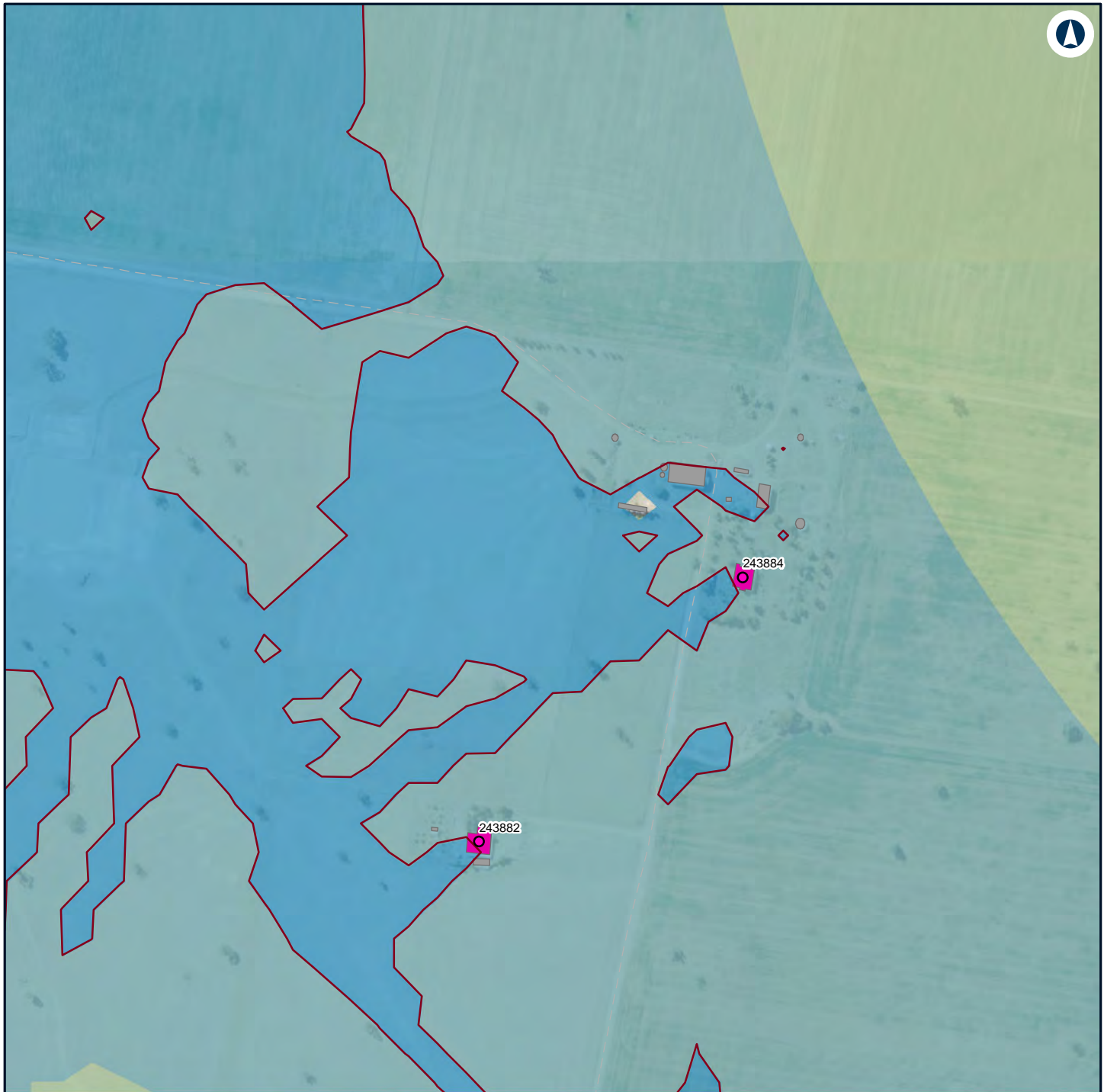
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#### LEGEND

- 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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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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0 0.1 0.2 Km

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## LEGEND

### Structure type

- Residential
- Residential

### Noise level (dBA L

Aeq 15 minute)

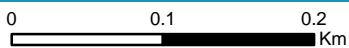
- 30 - 35



## NARROMINE TO NARRABRI

## Construction noise contours, Scenario ROAD03 - Road Earthworks

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Coordinate System: GDA 1994 MGA Zone 55

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Date: 16/07/2020

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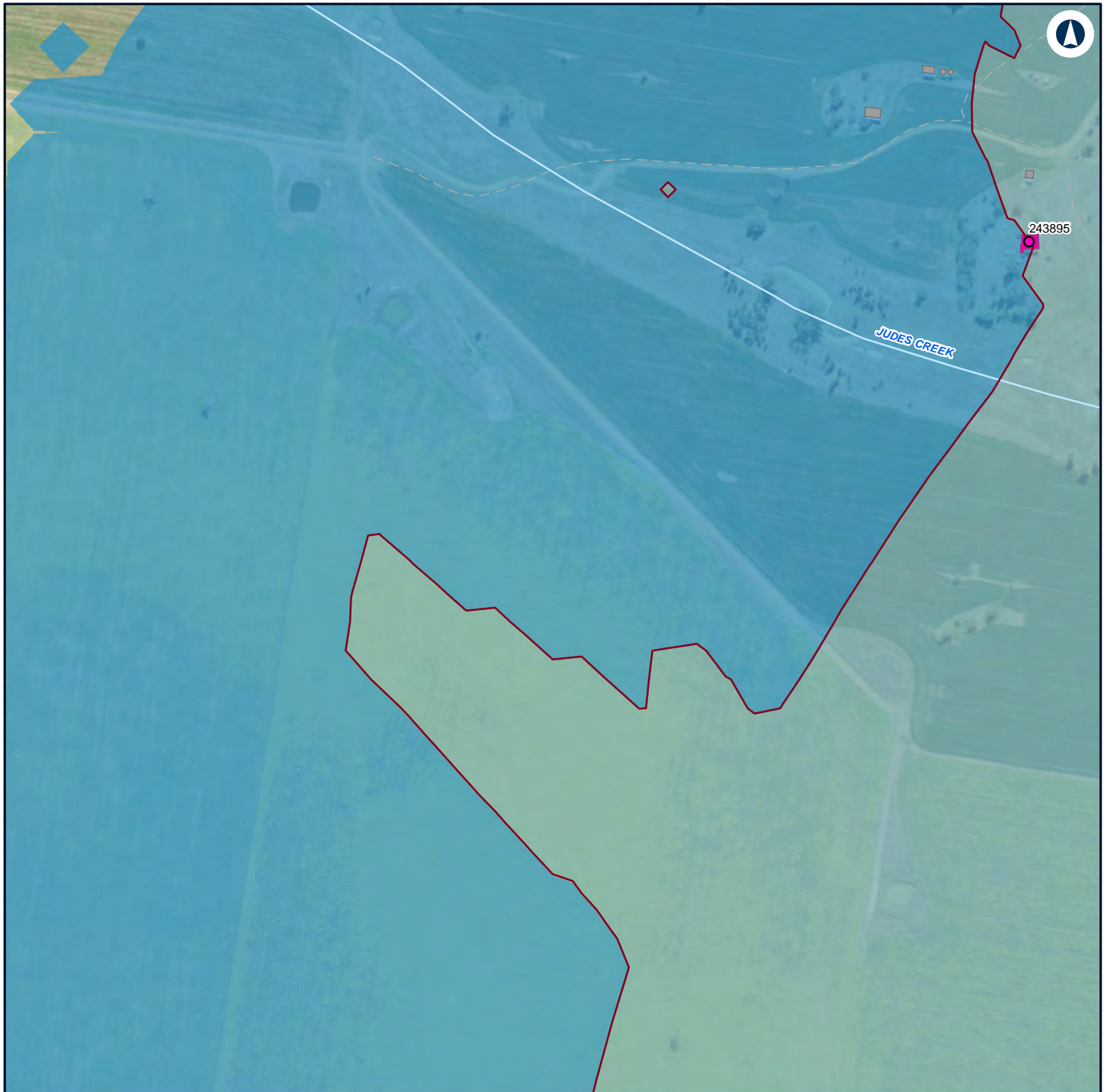
Author: GHD

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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0 0.1 0.2  
Km

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Author: GHD

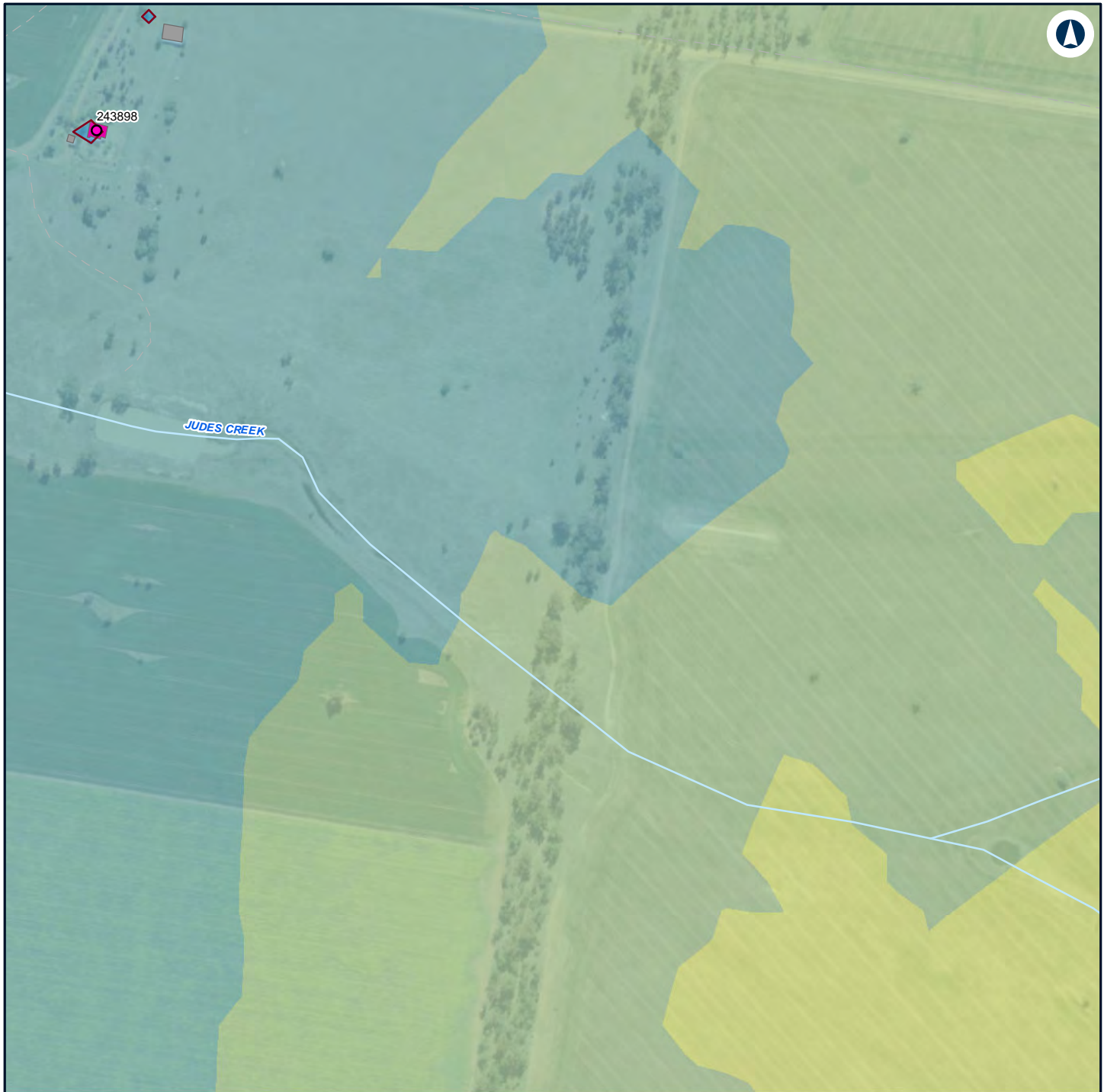
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

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#### LEGEND

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



#### NARROMINE TO NARRABRI

#### Construction noise contours, Scenario ROAD03 - Road Earthworks

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0 0.1 0.2  
Km

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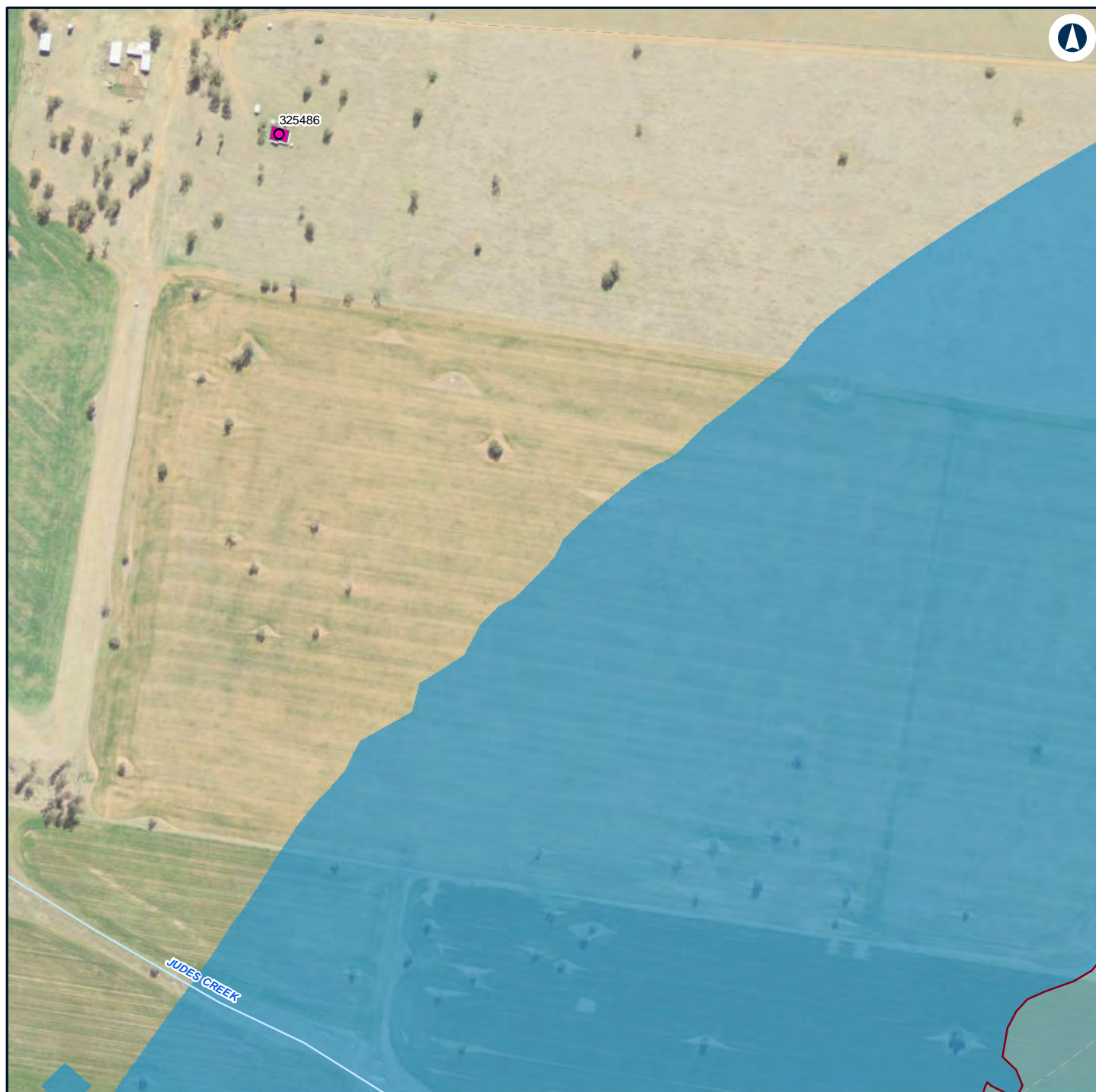
Author: GHD

Scale: 1:5,000

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

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## LEGEND

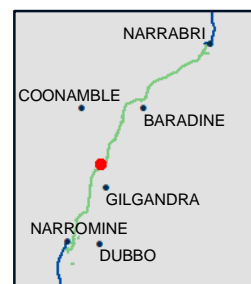
### Structure type

- Residential
- 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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0 0.1 0.2  
Km

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Author: GHD

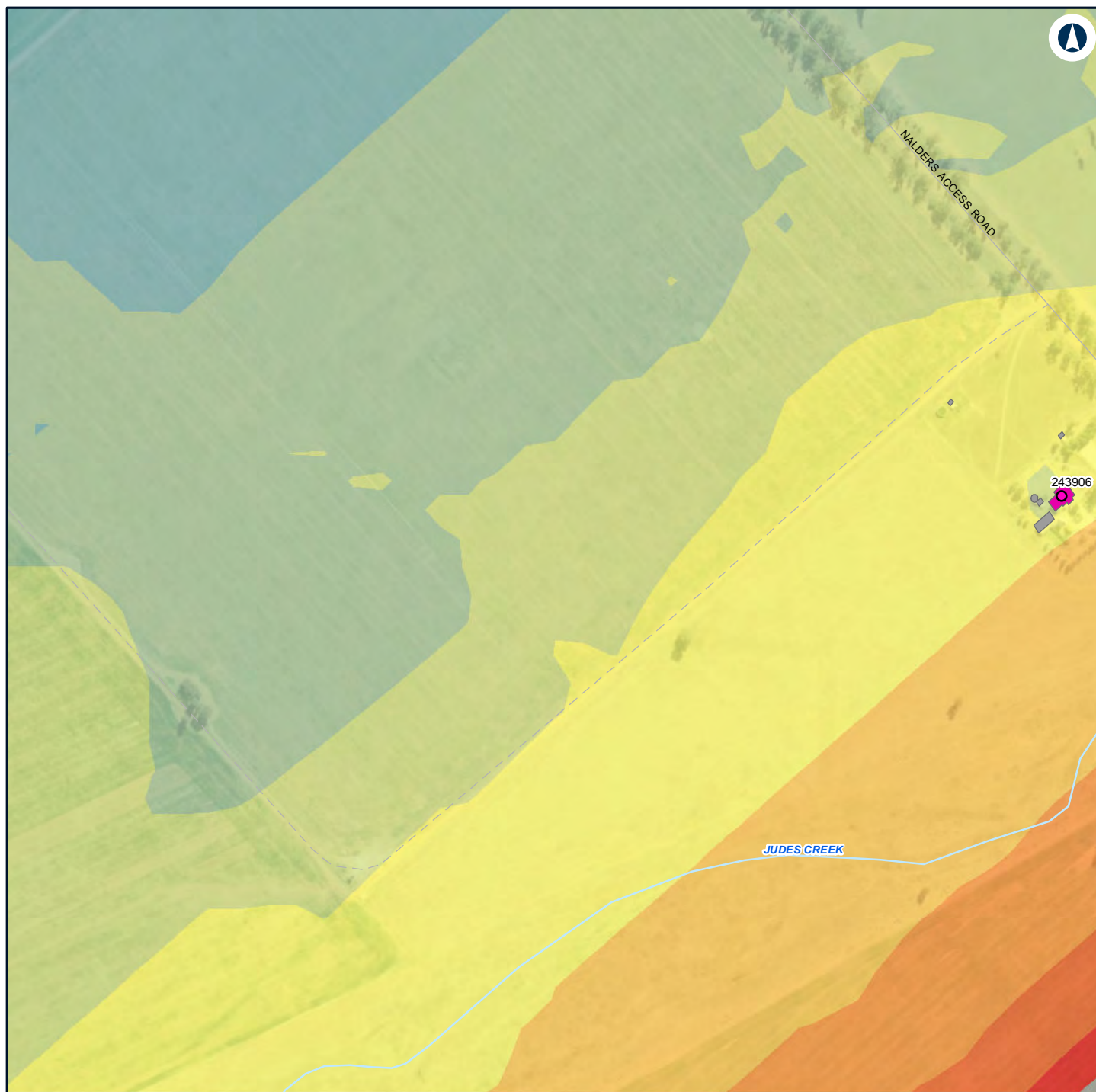
Scale: 1:5,000

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)

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

Appendix G - Page 146 of 304

0 0.1 0.2 Km

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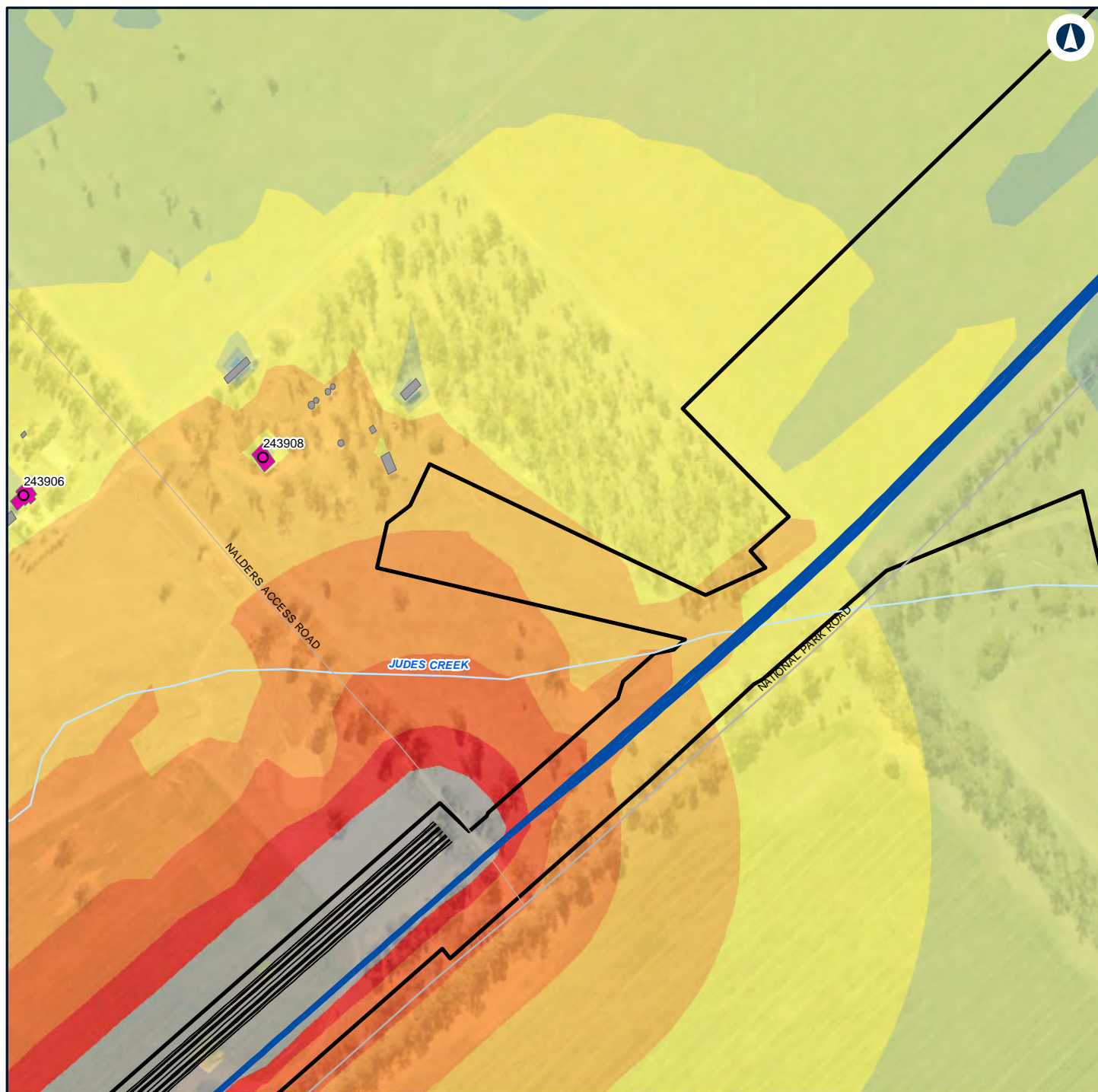
Author: GHD

Scale: 1:5,000

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

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#### LEGEND

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



#### NARROMINE TO NARRABRI

#### Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 147 of 304

0 0.1 0.2  
Km

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Author: GHD

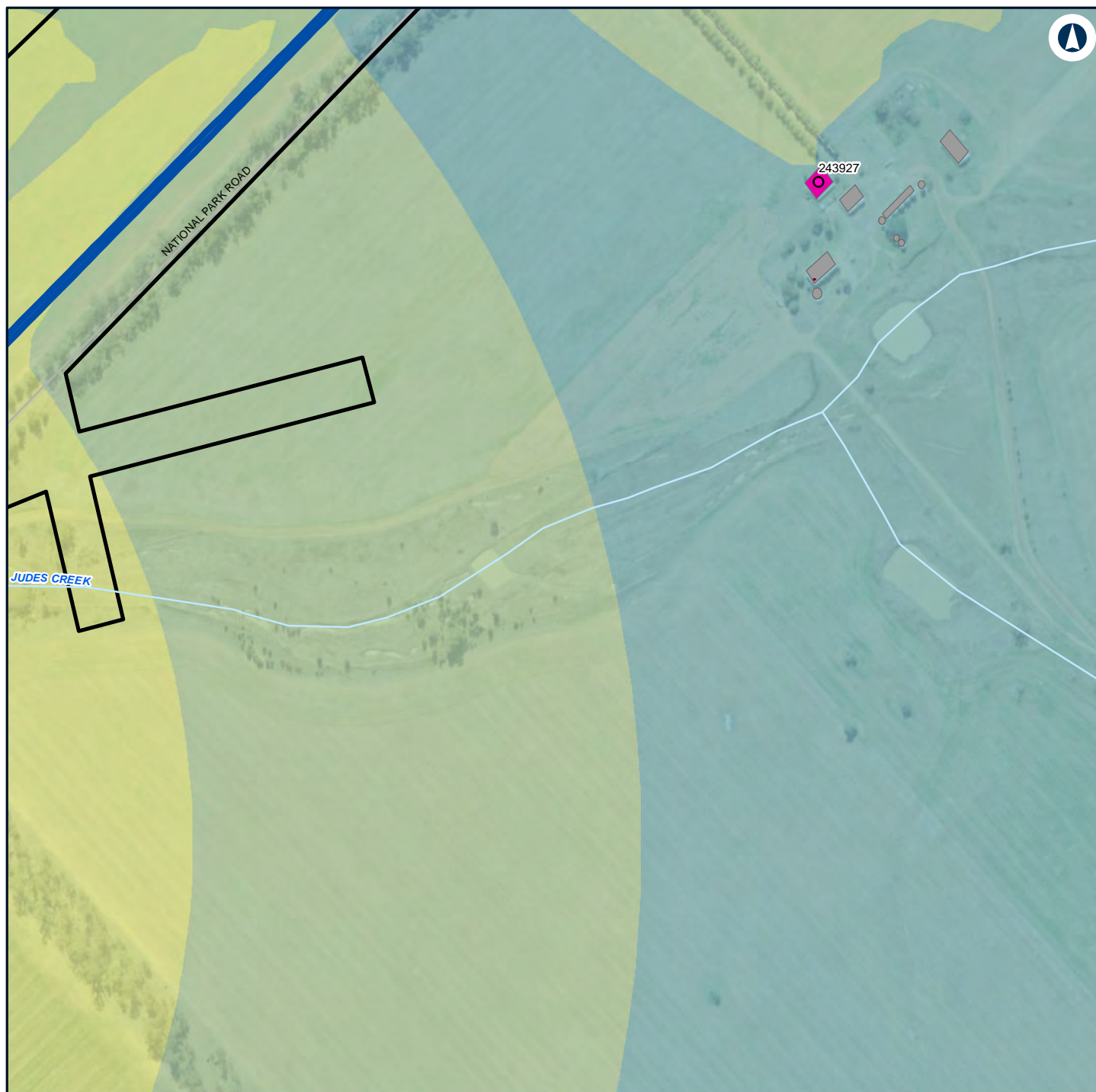
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

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## LEGEND

Alignment

Construction footprint

Structure type

Residential

Other

Residential

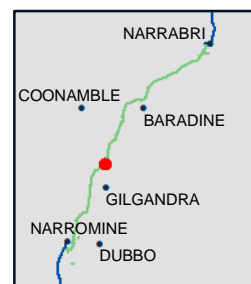
Noise level (dBA L

Aeq 15 minute)

35 - 40

40 - 45

45 - 50



## NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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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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0 0.1 0.2  
Km

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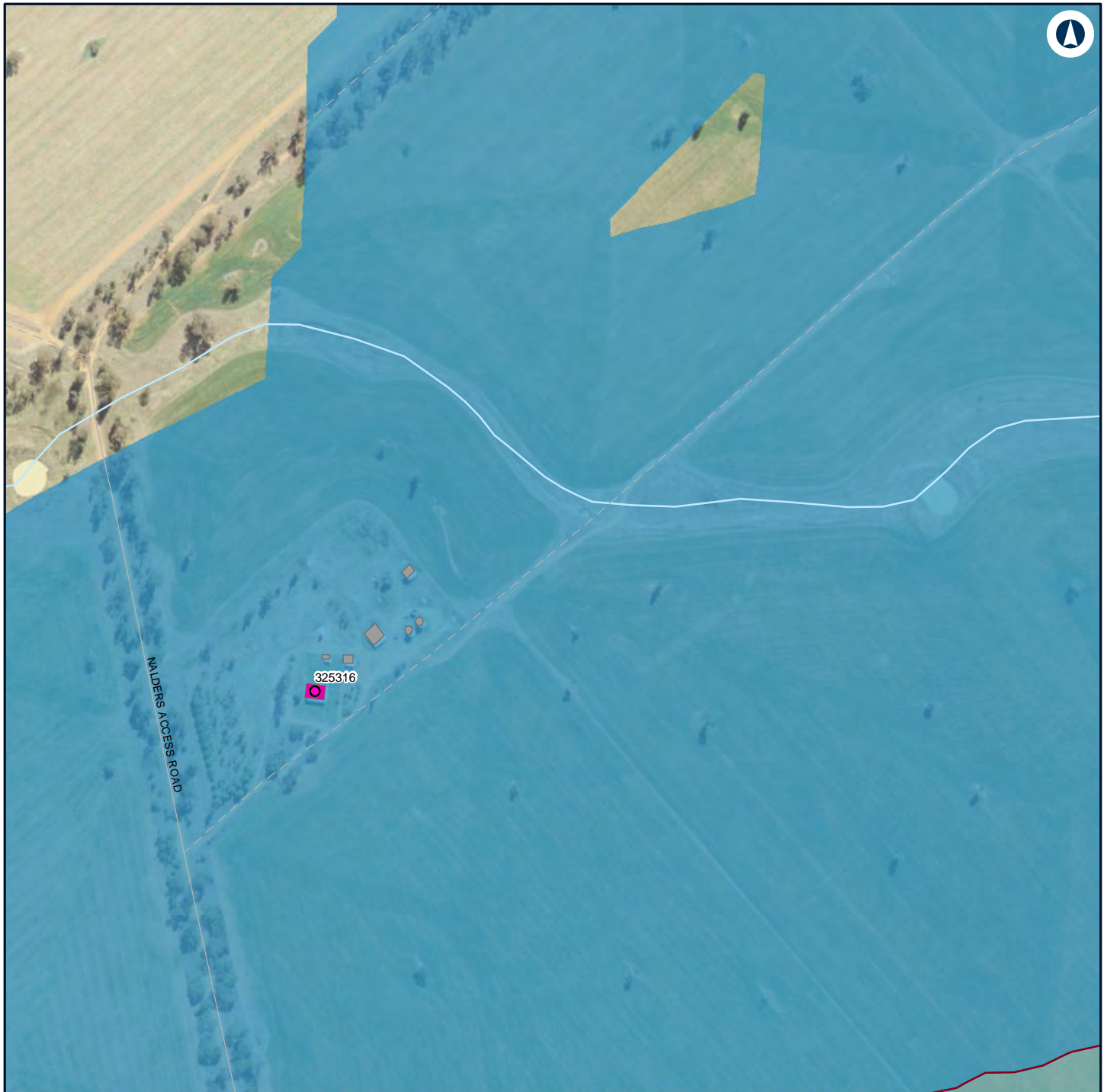
Scale: 1:5,000

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

Appendix G - Page 150 of 304

0 0.1 0.2  
Km

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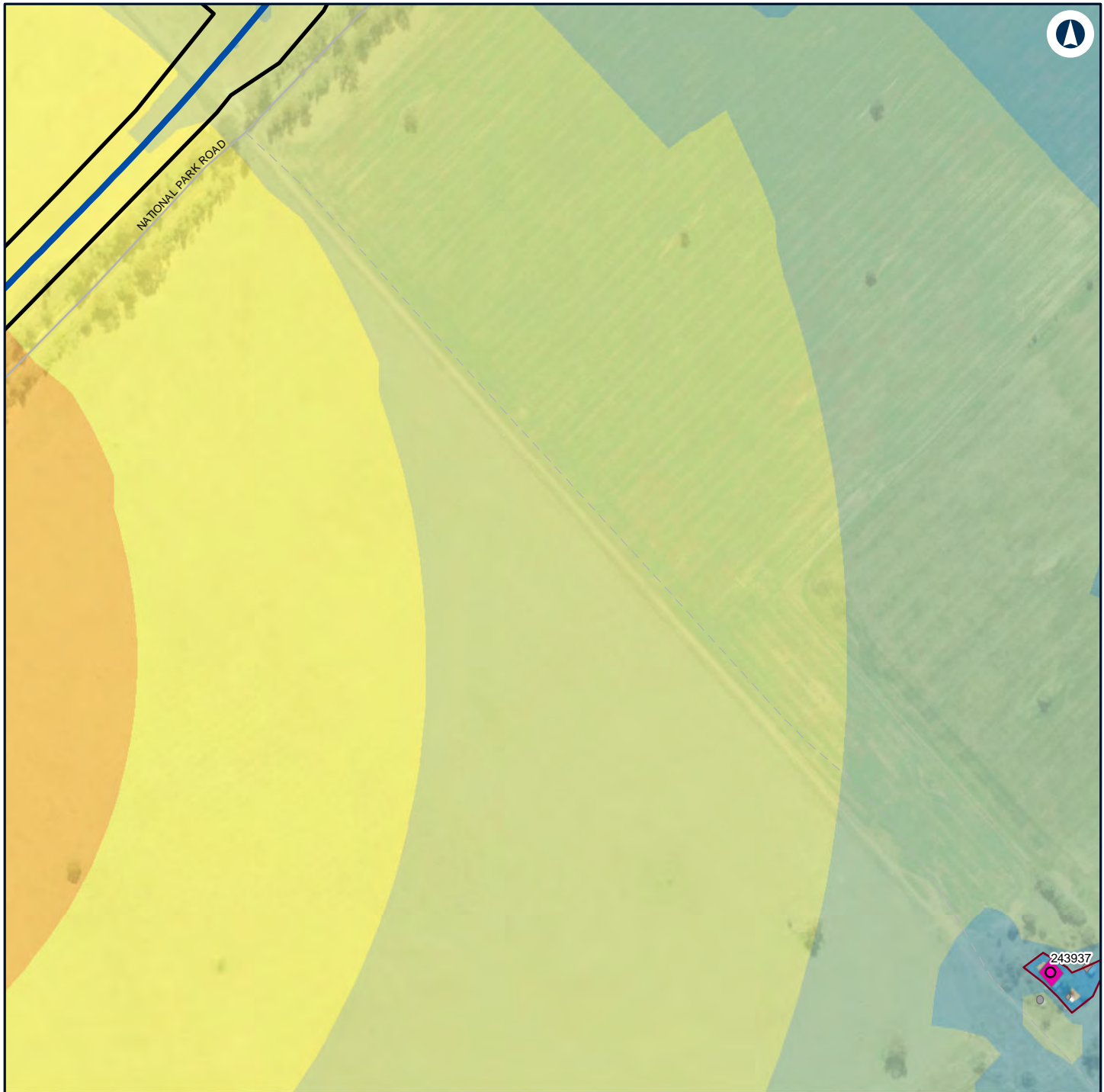
Author: GHD

Scale: 1:5,000

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

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#### LEGEND

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



#### NARROMINE TO NARRABRI

#### Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 151 of 304

0 0.1 0.2  
Km

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Author: GHD

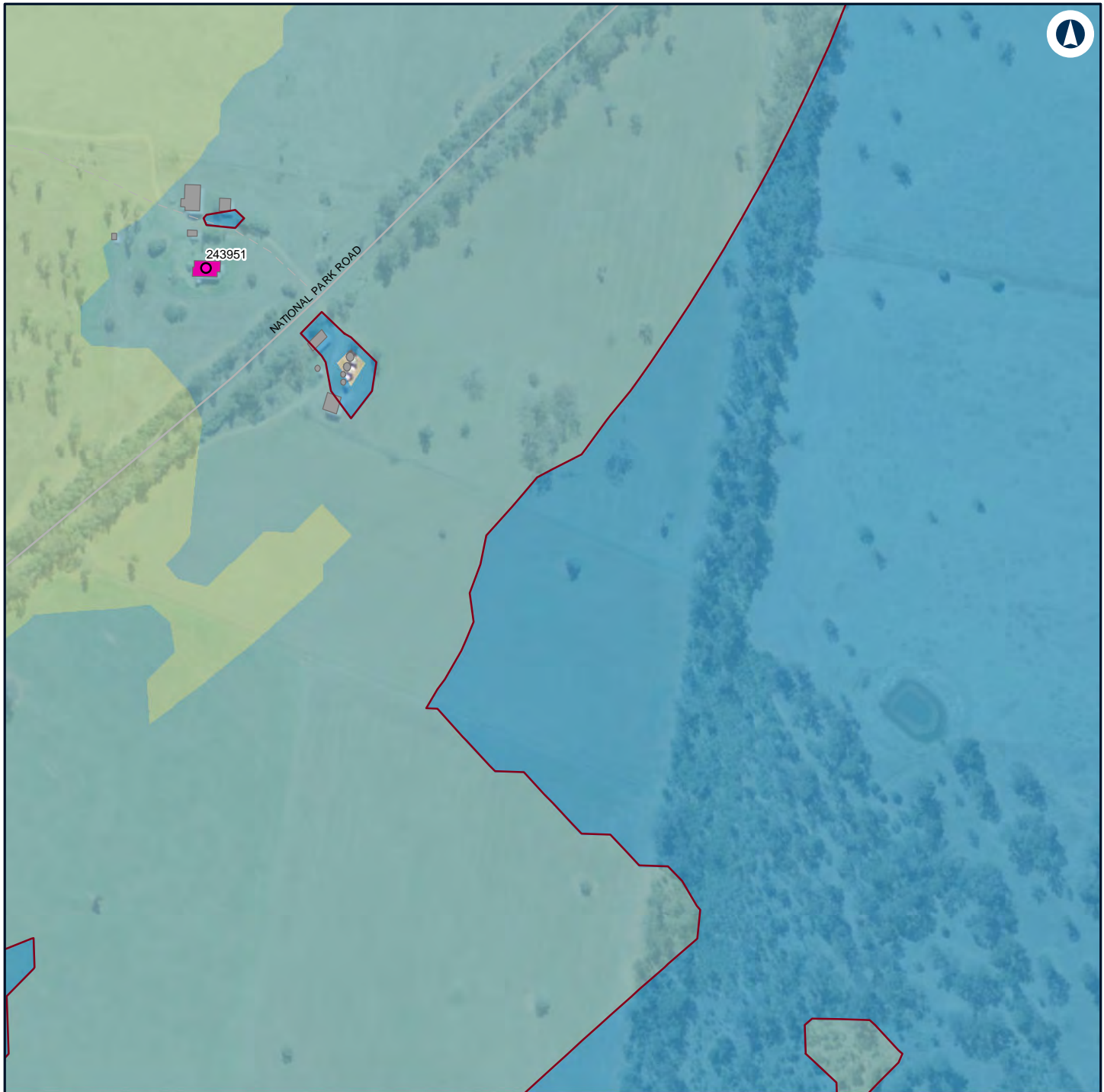
Scale: 1:5,000

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

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#### LEGEND

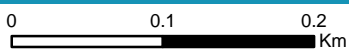
<b>Structure type</b>	35 - 40
● Residential	40 - 45
■ Other	
■ Residential	
<b>Noise level (dBA L</b>	
<b>Aeq 15 minute)</b>	
■ 30 - 35	



#### 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

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



#### NARROMINE TO NARRABRI

#### Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 153 of 304

0 0.1 0.2  
Km

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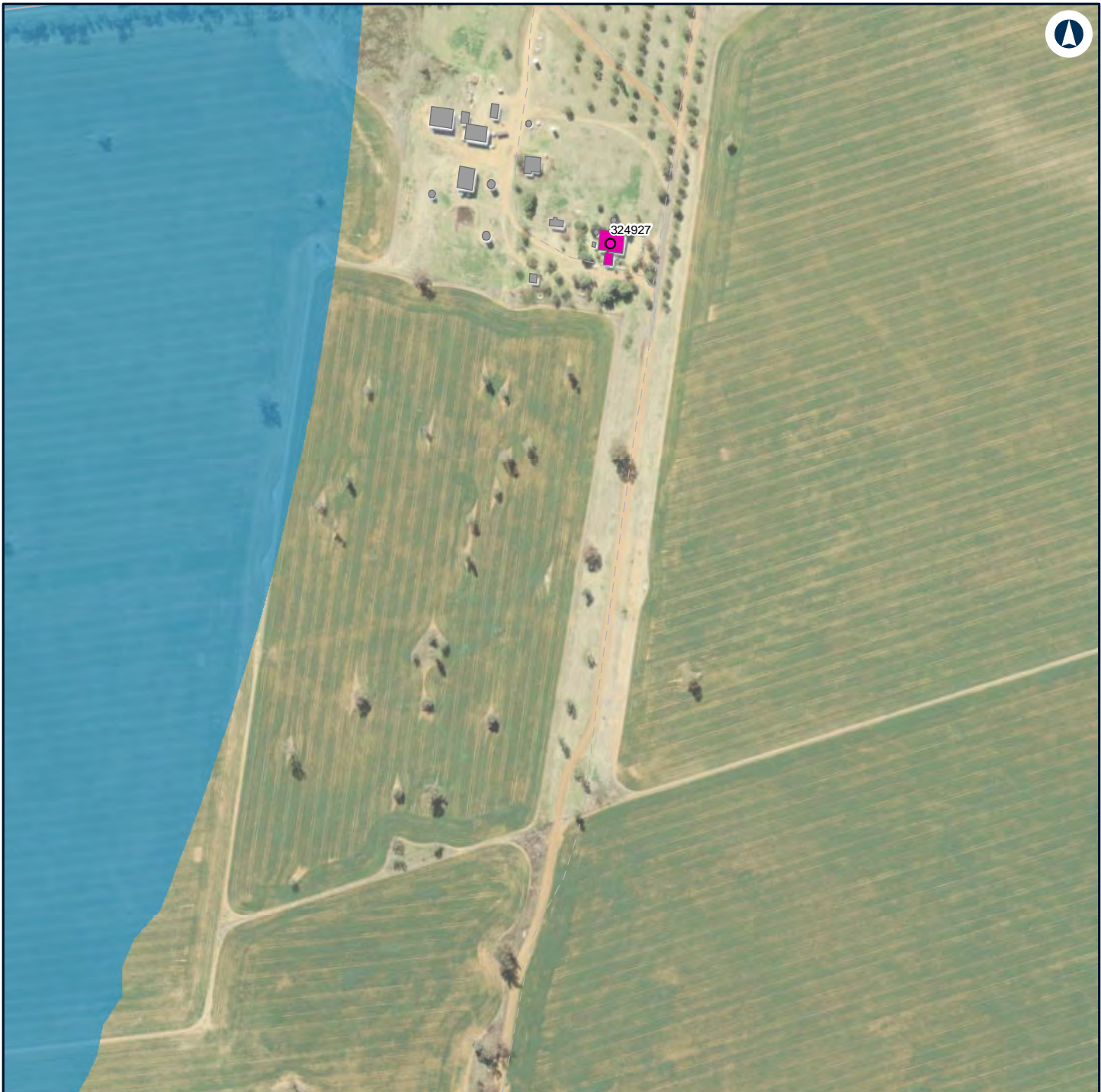
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# LEGEND

## 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 154 of 304

0 0.1 0.2 Km

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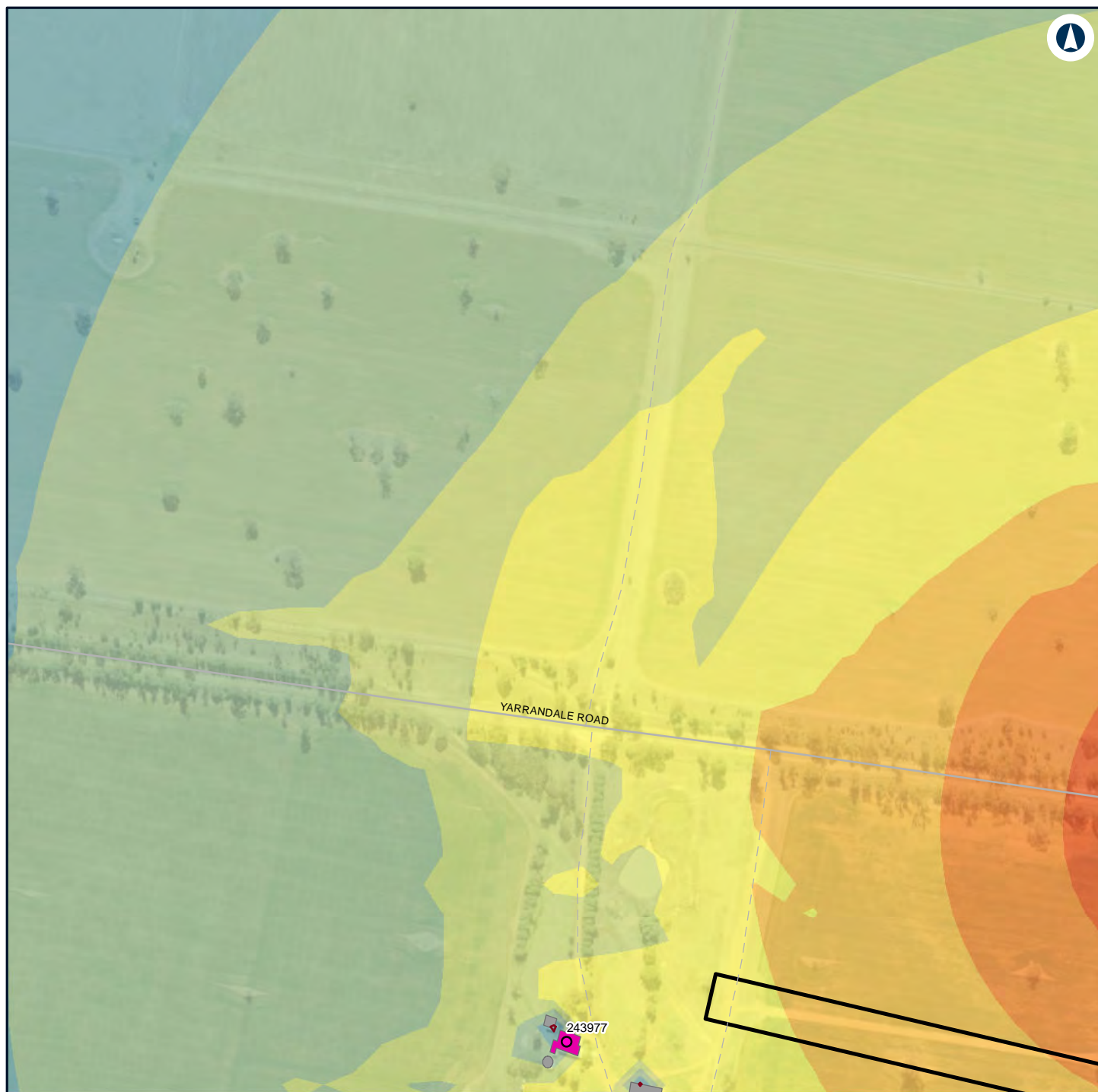
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Scale: 1:5,000

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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

65 - 70



#### NARROMINE TO NARRABRI

#### Construction noise contours, Scenario ROAD03 - Road Earthworks

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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

Appendix G - Page 156 of 304

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

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0 0.1 0.2  
Km

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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 158 of 304

0 0.1 0.2 Km

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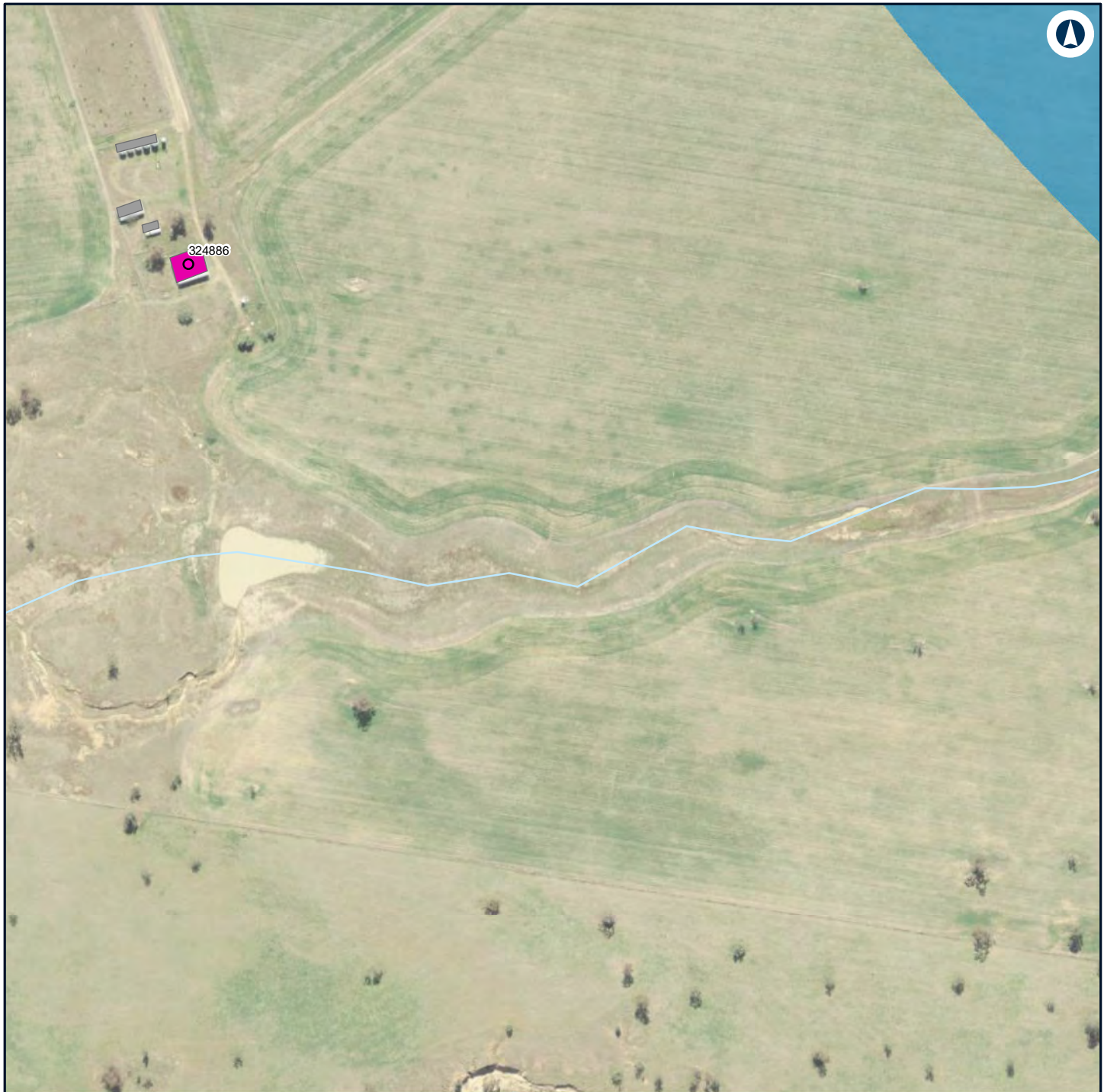
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

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**LEGEND**

**Structure type**

- Residential
- Other
- Residential

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

- 30 - 35



0      0.1      0.2

Km

Coordinate System: GDA 1994 MGA Zone 55

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Author: GHD      Scale: 1:5,000

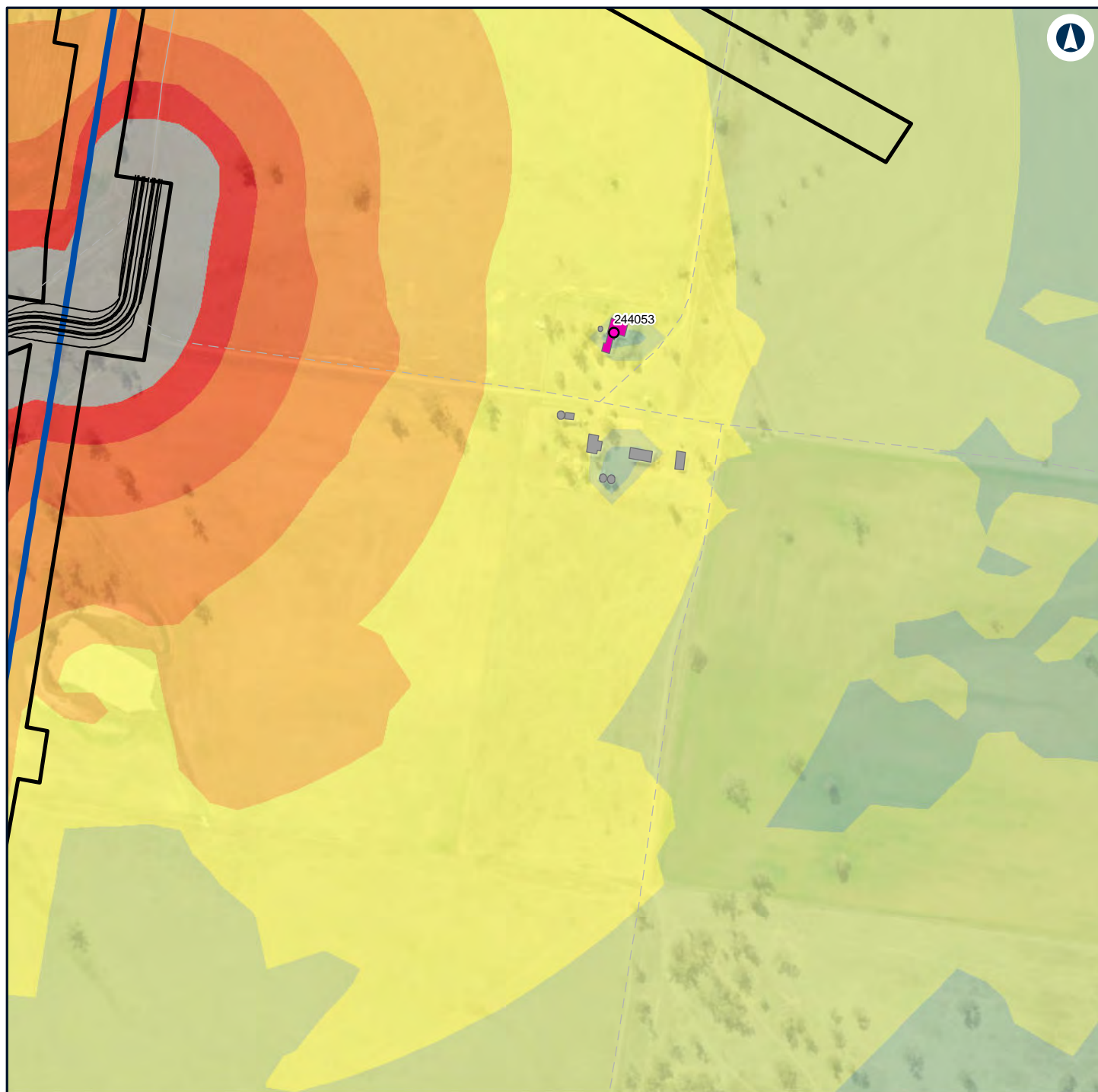
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RAIL**

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#### LEGEND

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



#### NARROMINE TO NARRABRI

#### Construction noise contours, Scenario ROAD03 - Road Earthworks

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0 0.1 0.2  
Km

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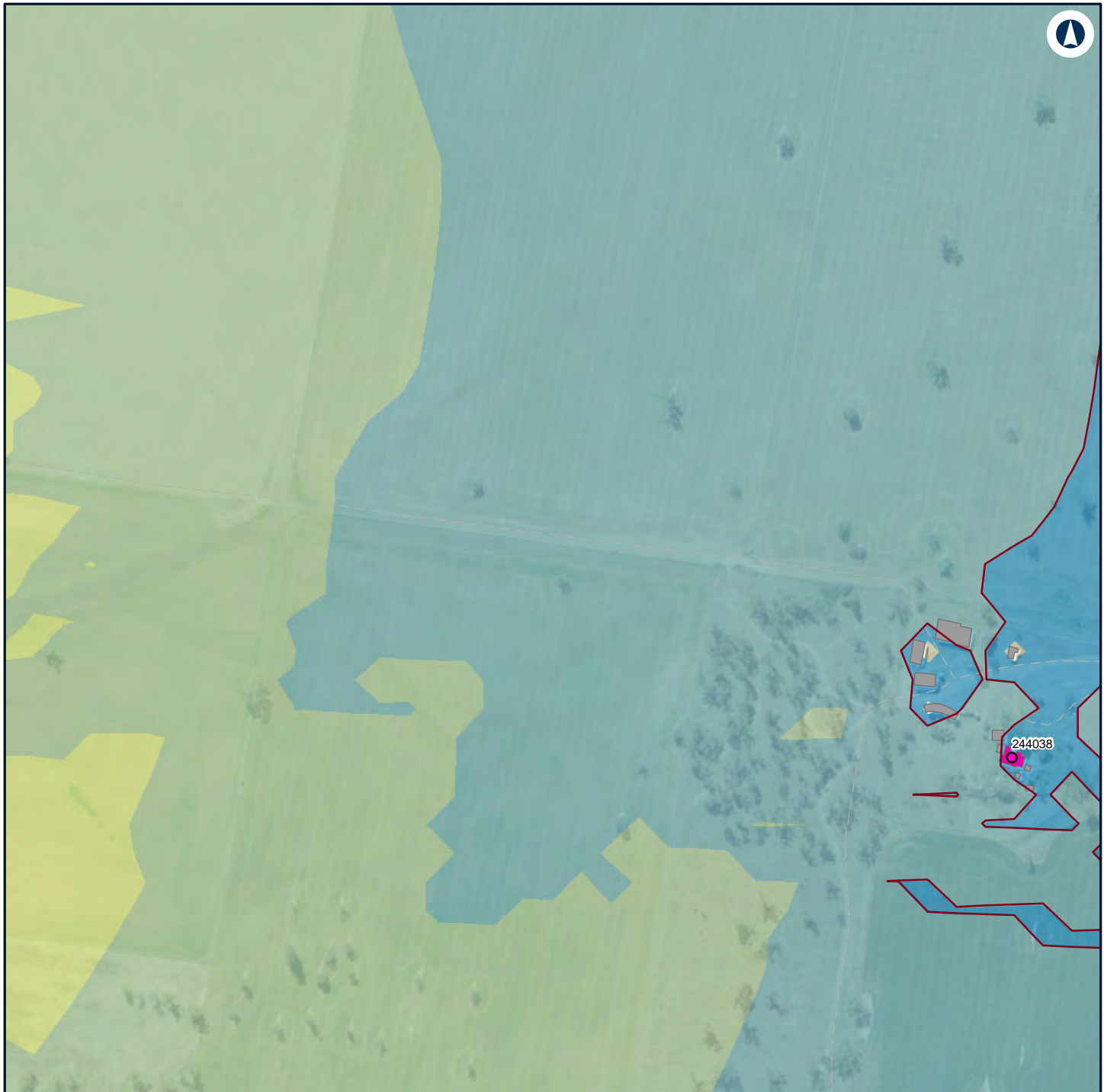
Author: GHD

Scale: 1:5,000

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

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#### LEGEND

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



#### NARROMINE TO NARRABRI

#### Construction noise contours, Scenario ROAD03 - Road Earthworks

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0 0.1 0.2  
Km

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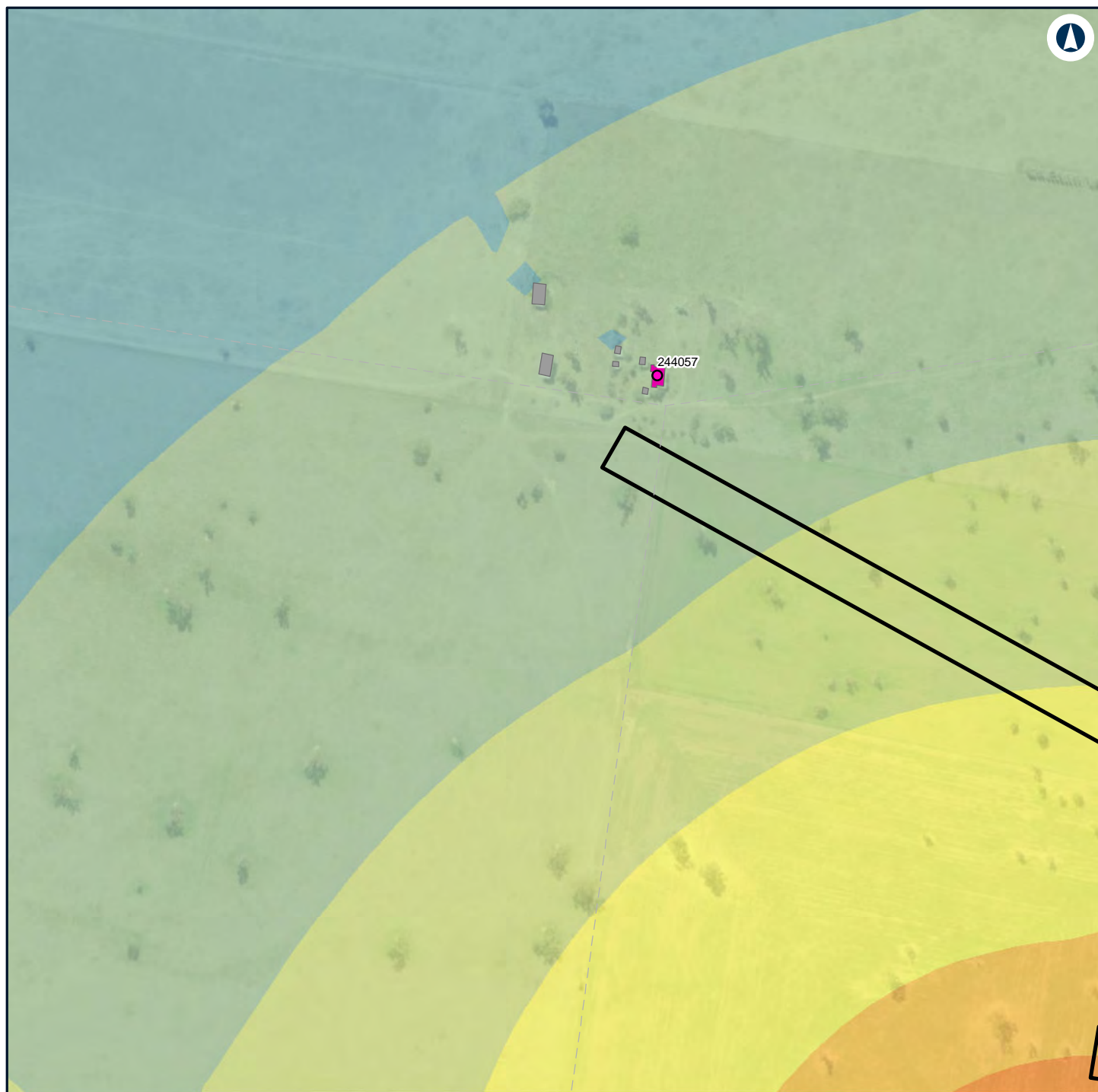
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#### LEGEND

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



#### NARROMINE TO NARRABRI

#### Construction noise contours, Scenario ROAD03 - Road Earthworks

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0 0.1 0.2  
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 16/07/2020

Paper: A4

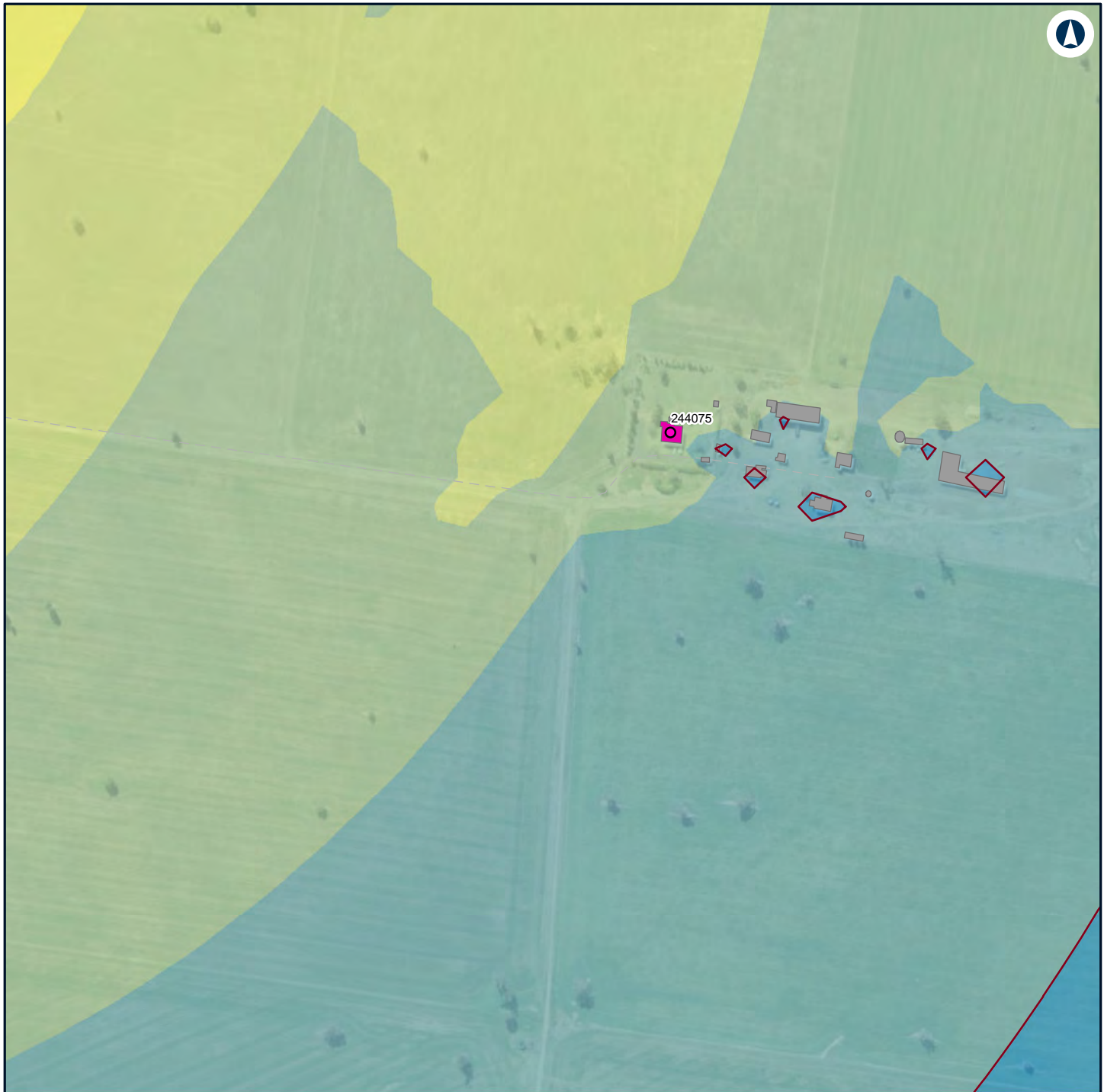
Author: GHD

Scale: 1:5,000

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

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#### LEGEND

<b>Structure type</b>		35 - 40
● Residential		40 - 45
■ Other		45 - 50
■ Residential		50 - 55

#### Noise level (dBA L

Aeq 15 minute)

■	30 - 35
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#### 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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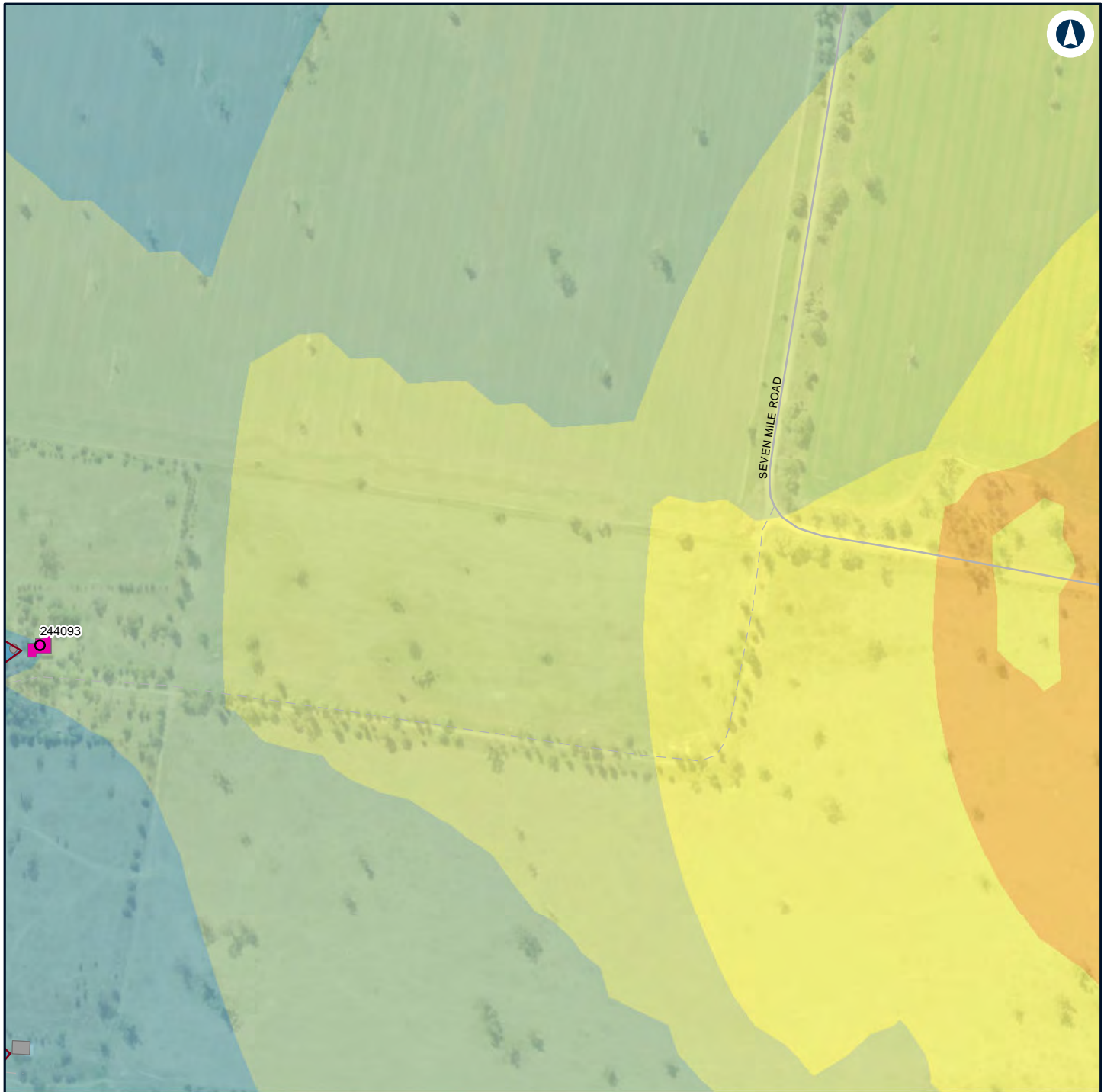
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#### LEGEND

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



#### NARROMINE TO NARRABRI

#### Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 164 of 304

0 0.1 0.2 Km

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#### LEGEND

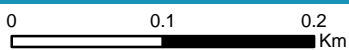
<b>Structure type</b>	35 - 40
<span style="color: magenta;">●</span> Residential	40 - 45
<span style="background-color: grey; border: 1px solid black; display: inline-block; width: 10px; height: 10px;"></span> Other	
<span style="background-color: magenta; border: 1px solid black; display: inline-block; width: 10px; height: 10px;"></span> Residential	
<b>Noise level (dBA L</b>	
<b>Aeq 15 minute)</b>	
<span style="background-color: lightblue; border: 1px solid black; display: inline-block; width: 10px; height: 10px;"></span> 30 - 35	



#### NARROMINE TO NARRABRI

#### Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 165 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



0 0.1 0.2 Km

Coordinate System: GDA 1994 MGA Zone 55

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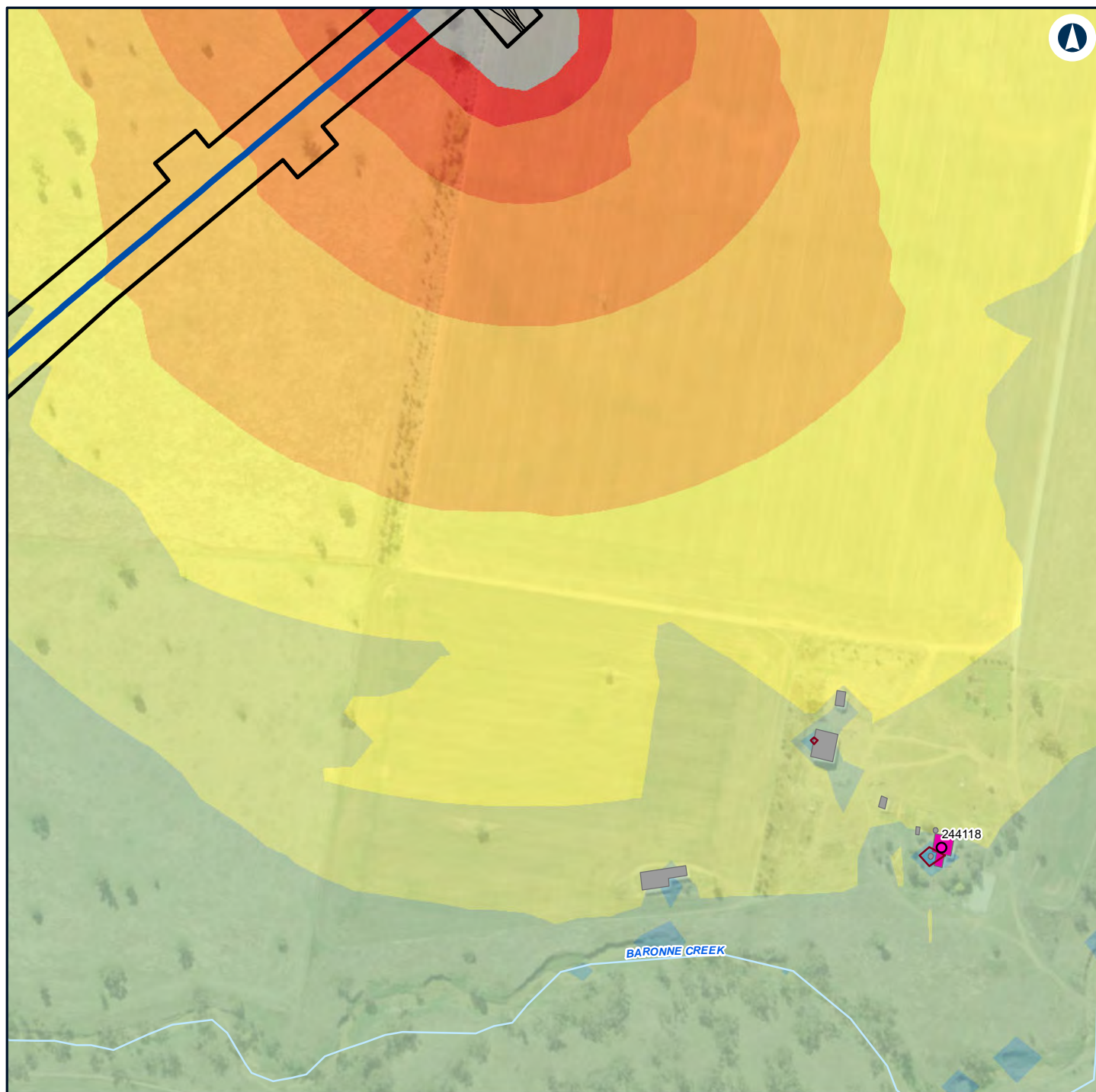
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

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#### LEGEND

Alignment	Residential	50 - 55
Road design string	<b>Noise level (dBA L</b>	55 - 60
Construction footprint	<b>Aeq 15 minute)</b>	60 - 65
<b>Structure type</b>	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

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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

Appendix G - Page 168 of 304

0 0.1 0.2  
Km

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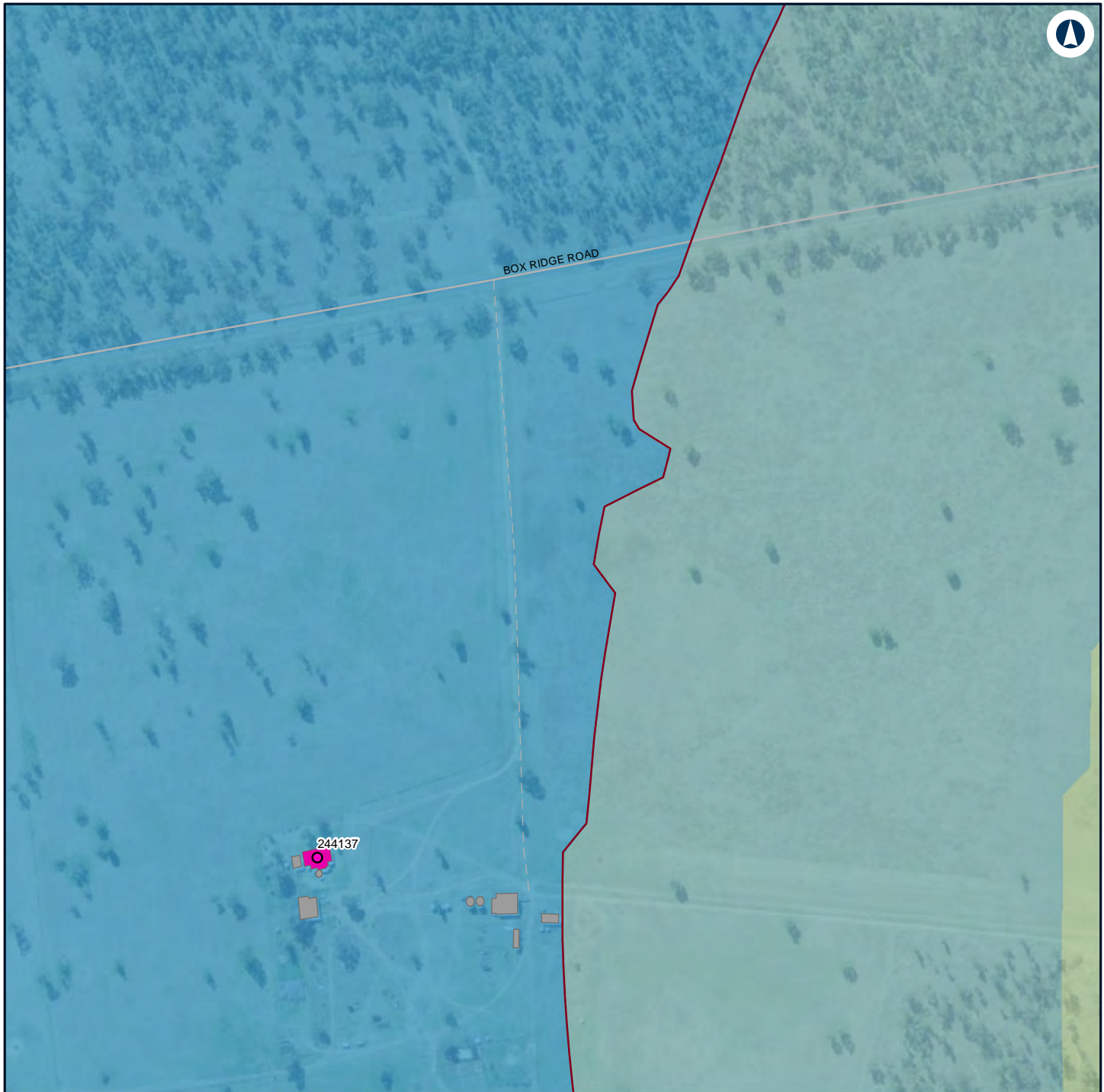
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#### LEGEND

<b>Structure type</b>	35 - 40
Residential	40 - 45
Other	
Residential	
<b>Noise level (dBA L</b>	
<b>Aeq 15 minute)</b>	
30 - 35	



#### NARROMINE TO NARRABRI

#### Construction noise contours, Scenario ROAD03 - Road Earthworks

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0 0.1 0.2  
Km

Coordinate System: GDA 1994 MGA Zone 55

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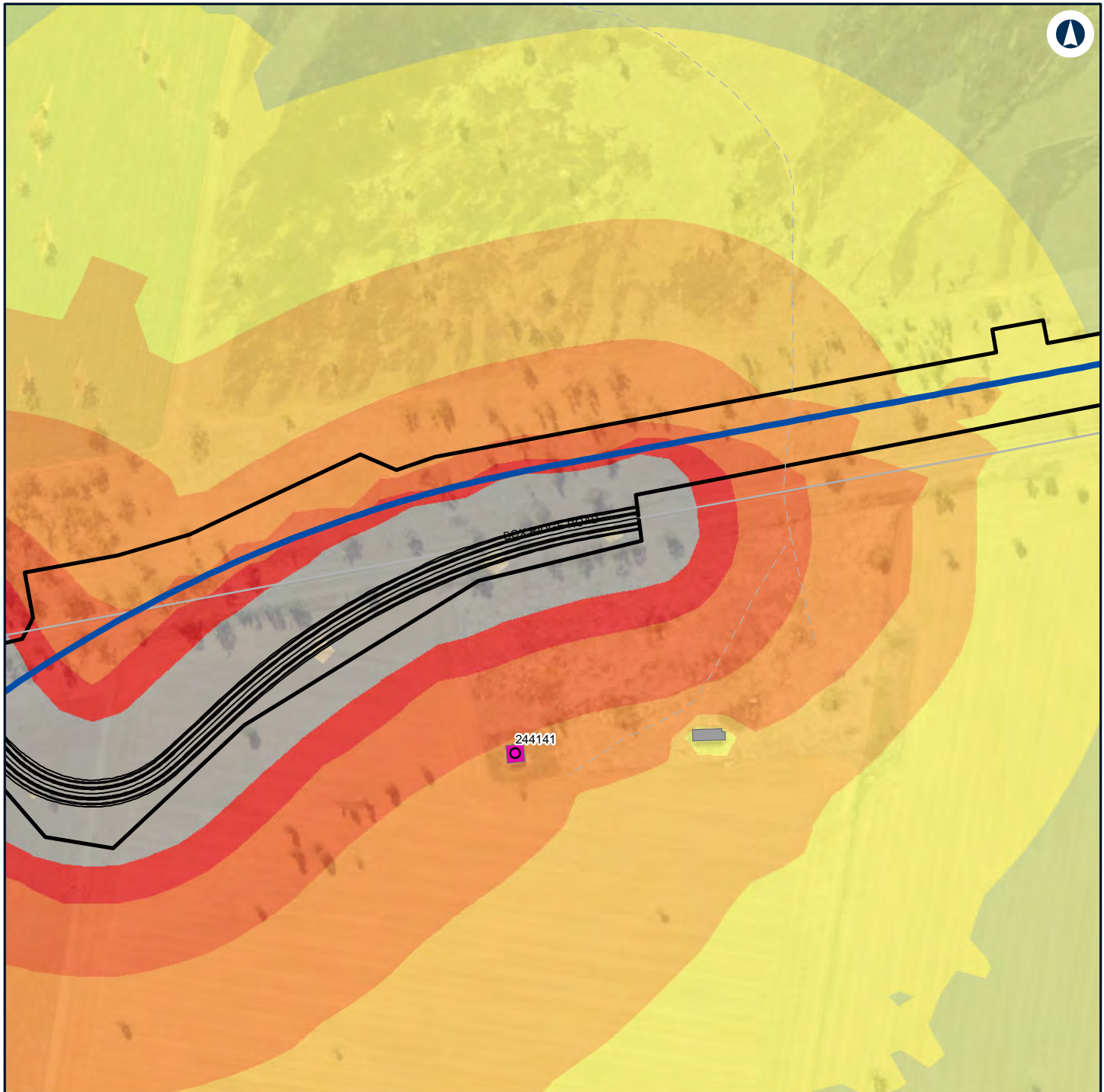
Scale: 1:5,000

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

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#### LEGEND

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



#### NARROMINE TO NARRABRI

#### Construction noise contours, Scenario ROAD03 - Road Earthworks

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0 0.1 0.2  
Km

Coordinate System: GDA 1994 MGA Zone 55

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Author: GHD

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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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0 0.1 0.2  
Km

Coordinate System: GDA 1994 MGA Zone 55

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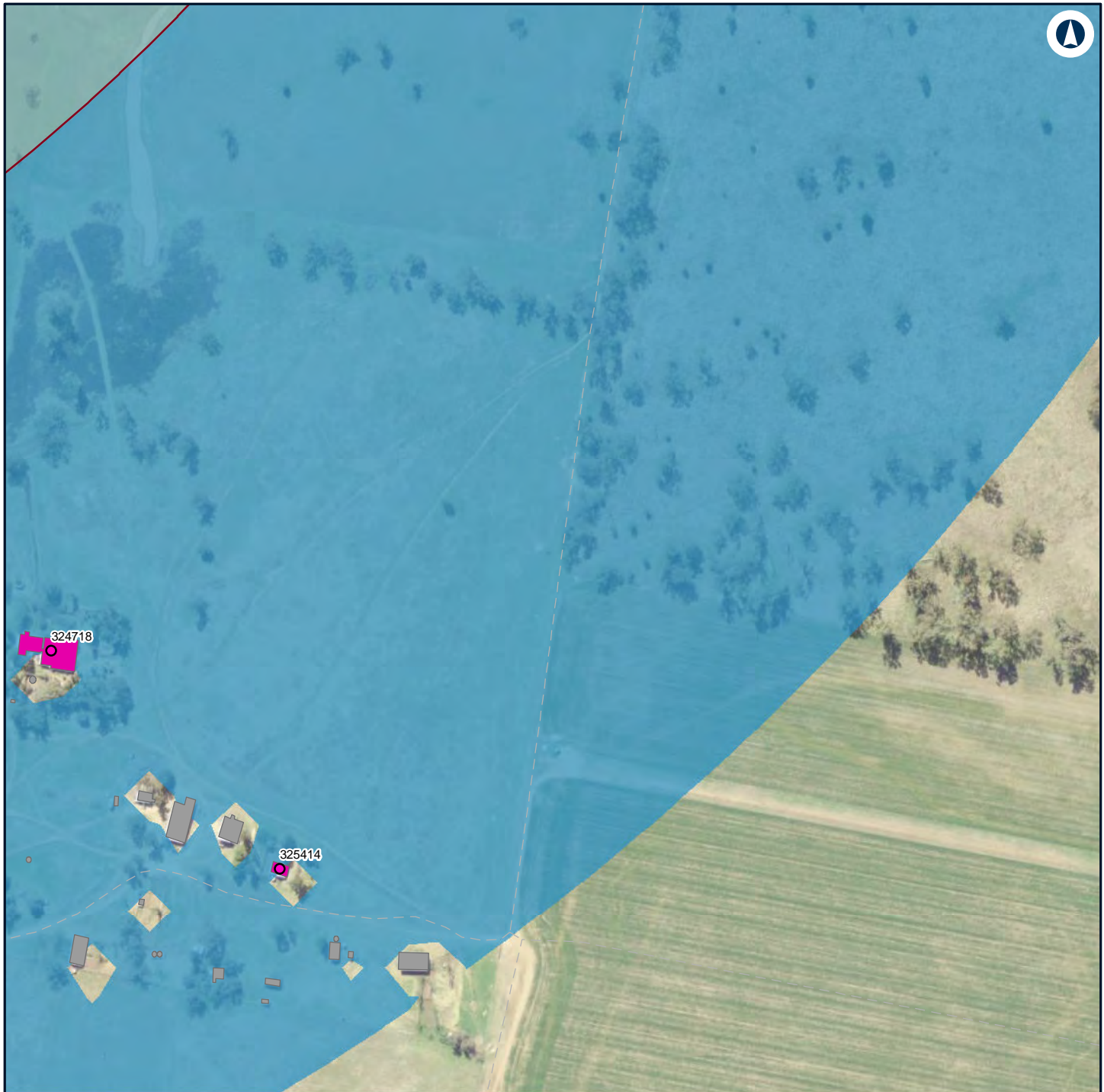
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#### LEGEND

**Structure type** 35 - 40

● 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 172 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

0 0.1 0.2 Km

Coordinate System: GDA 1994 MGA Zone 55

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Author: GHD

### Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 173 of 304

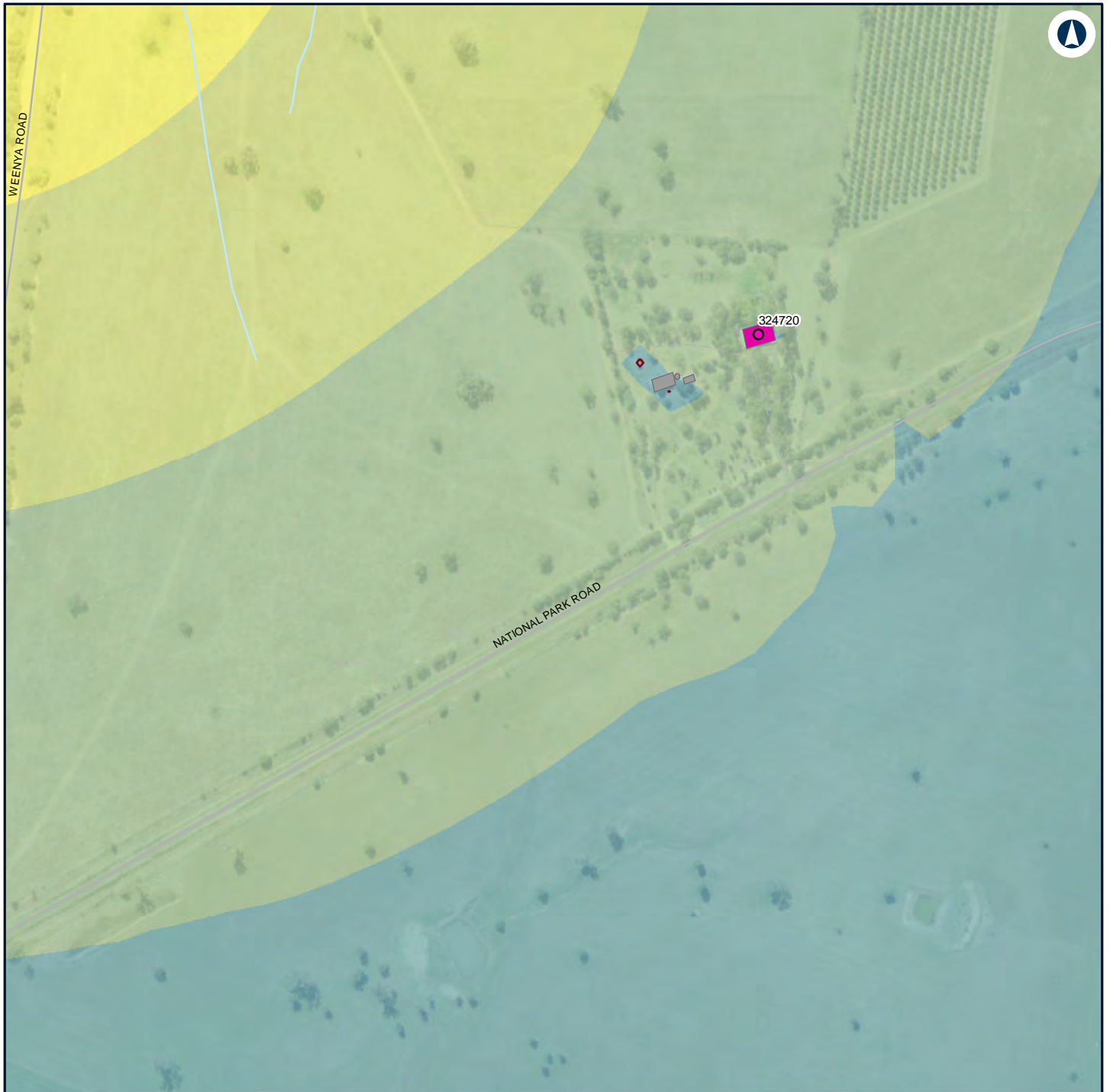
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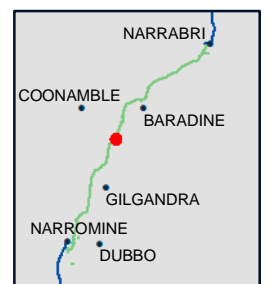
## LEGEND

<b>Structure type</b>		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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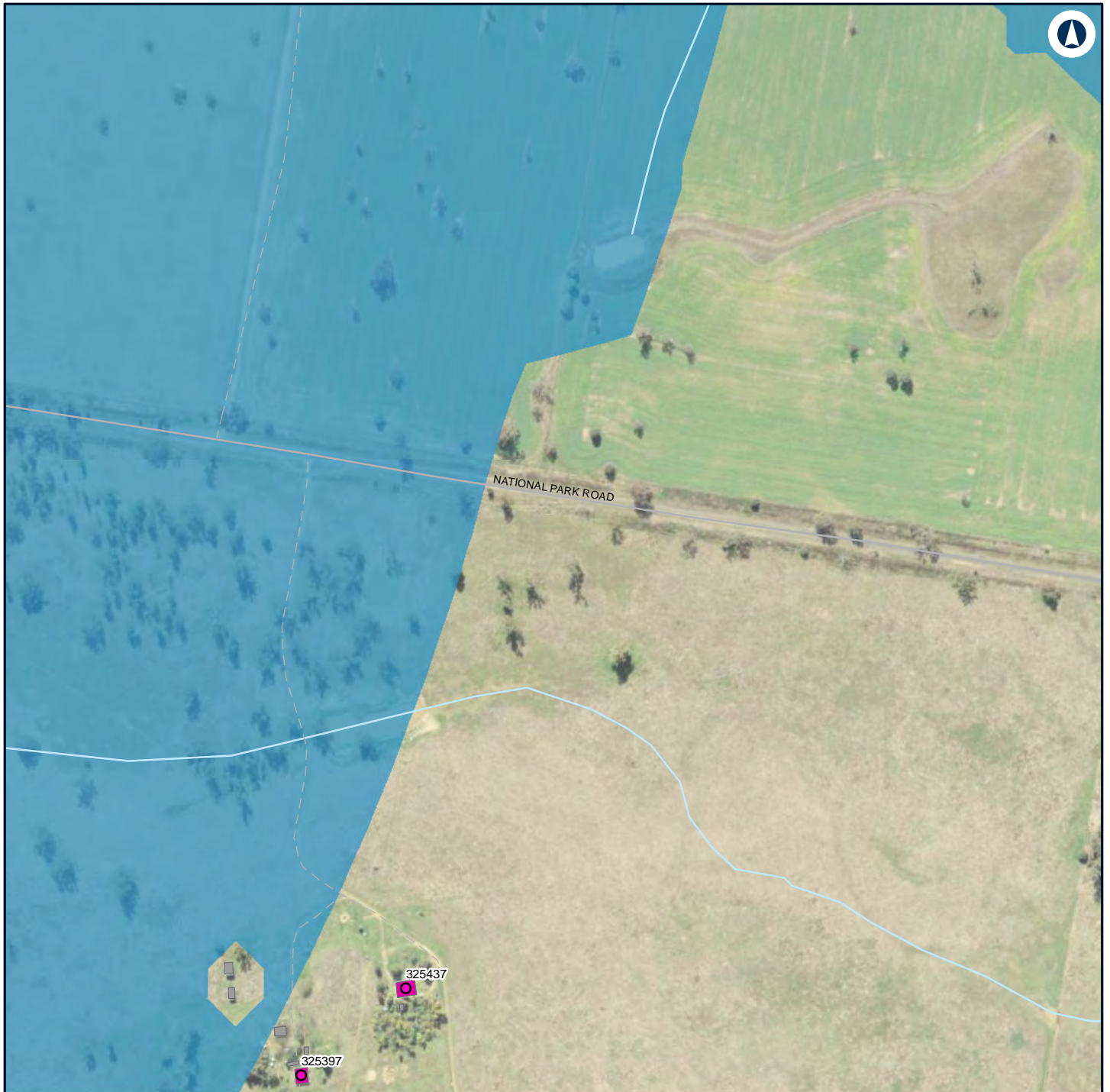
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## LEGEND

### 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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0 0.1 0.2  
Km

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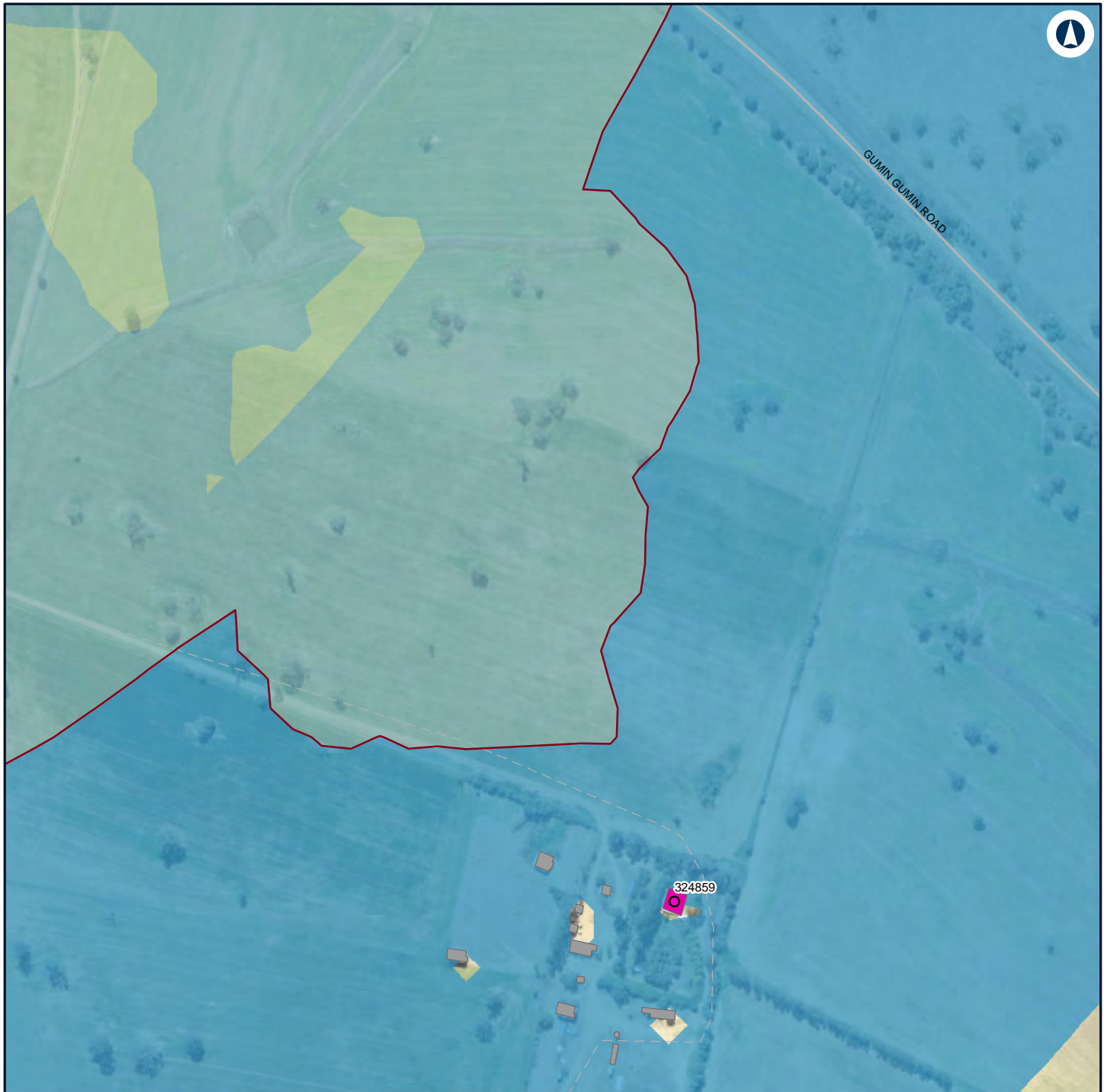
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#### LEGEND

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



#### NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 176 of 304



Coordinate System: GDA 1994 MGA Zone 55

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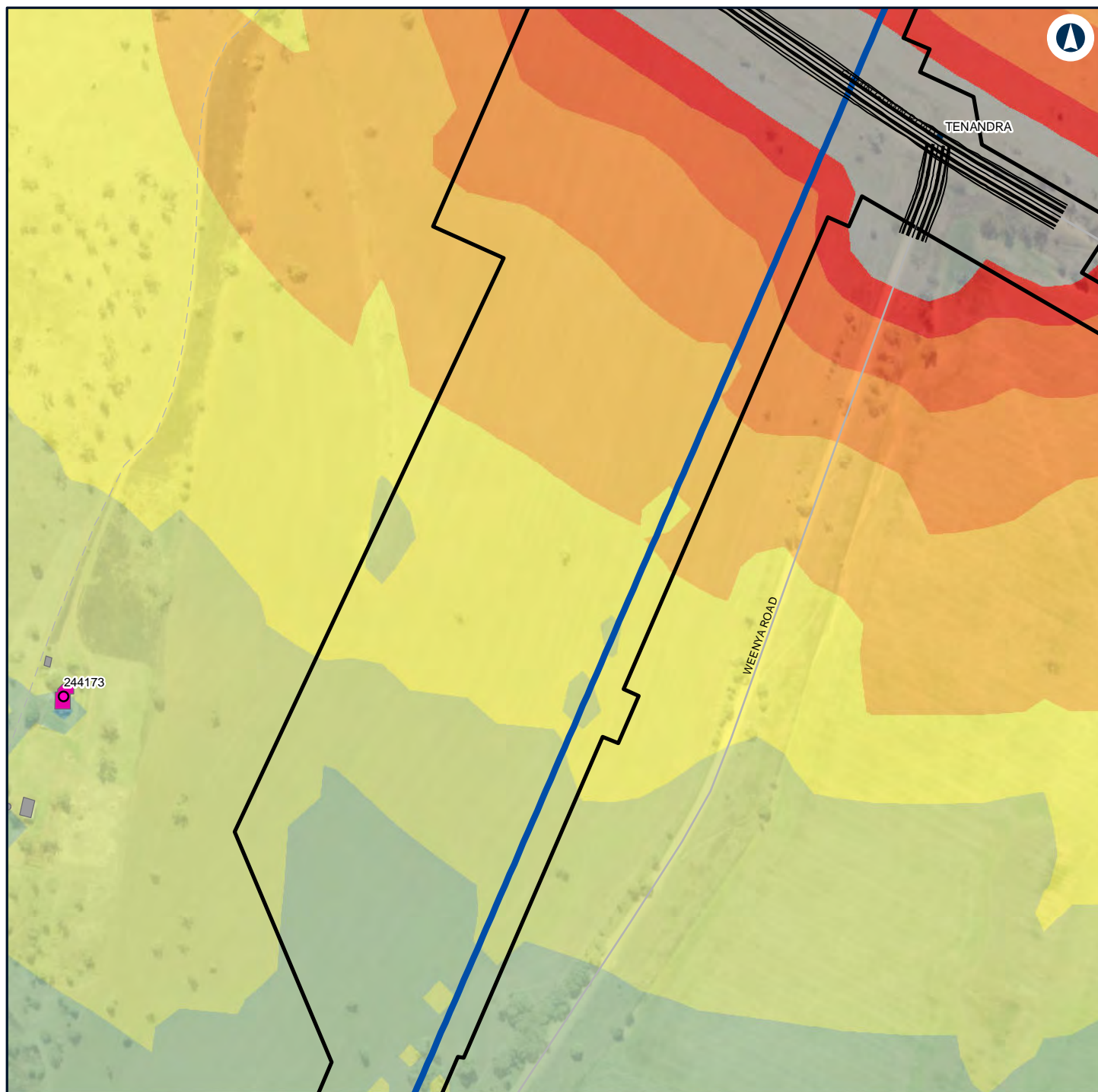
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#### LEGEND

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



#### NARROMINE TO NARRABRI

#### Construction noise contours, Scenario ROAD03 - Road Earthworks

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0 0.1 0.2  
Km

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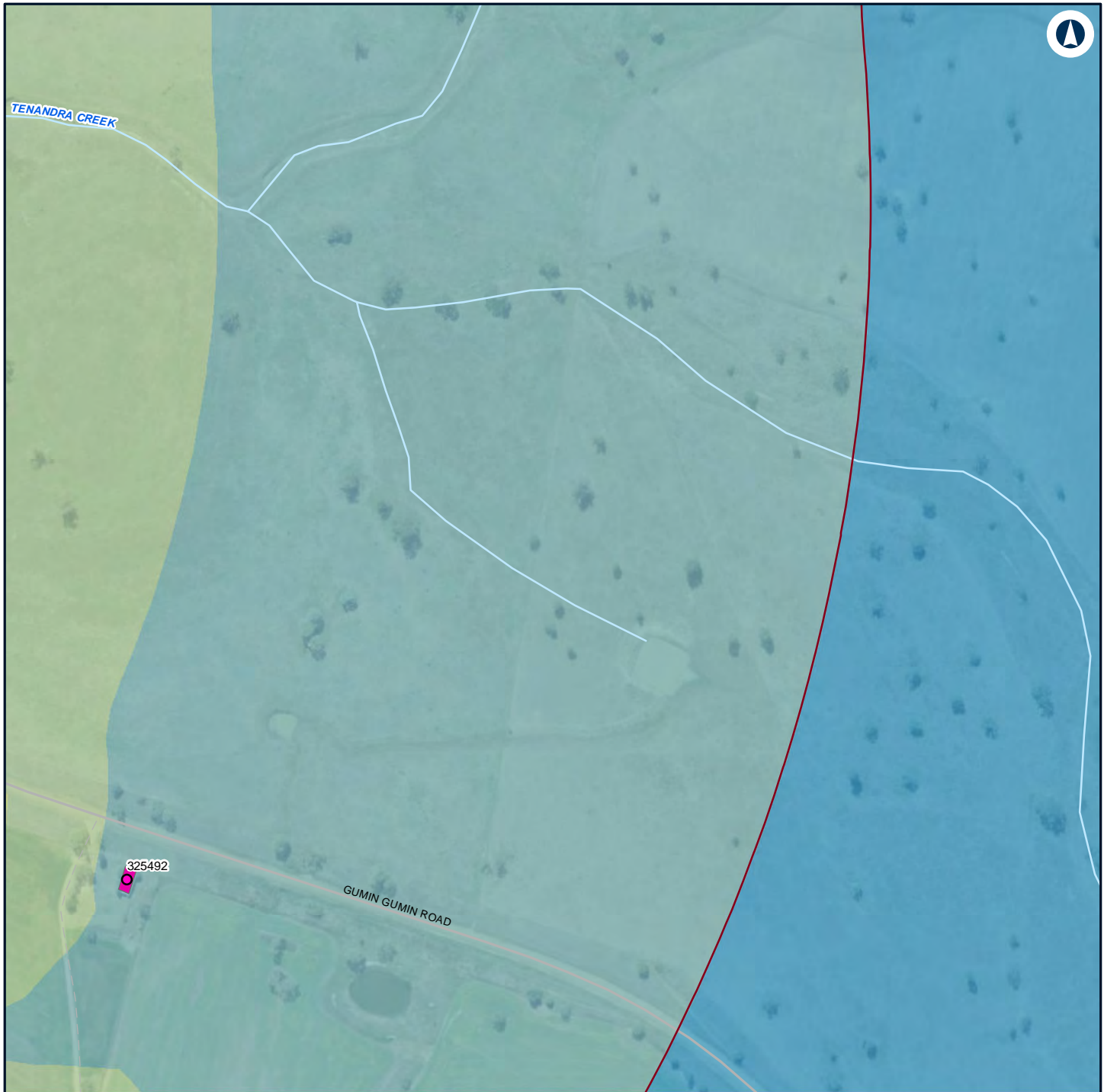
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#### LEGEND

##### 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

Appendix G - Page 178 of 304

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

Appendix G - Page 179 of 304

0 0.1 0.2  
Km

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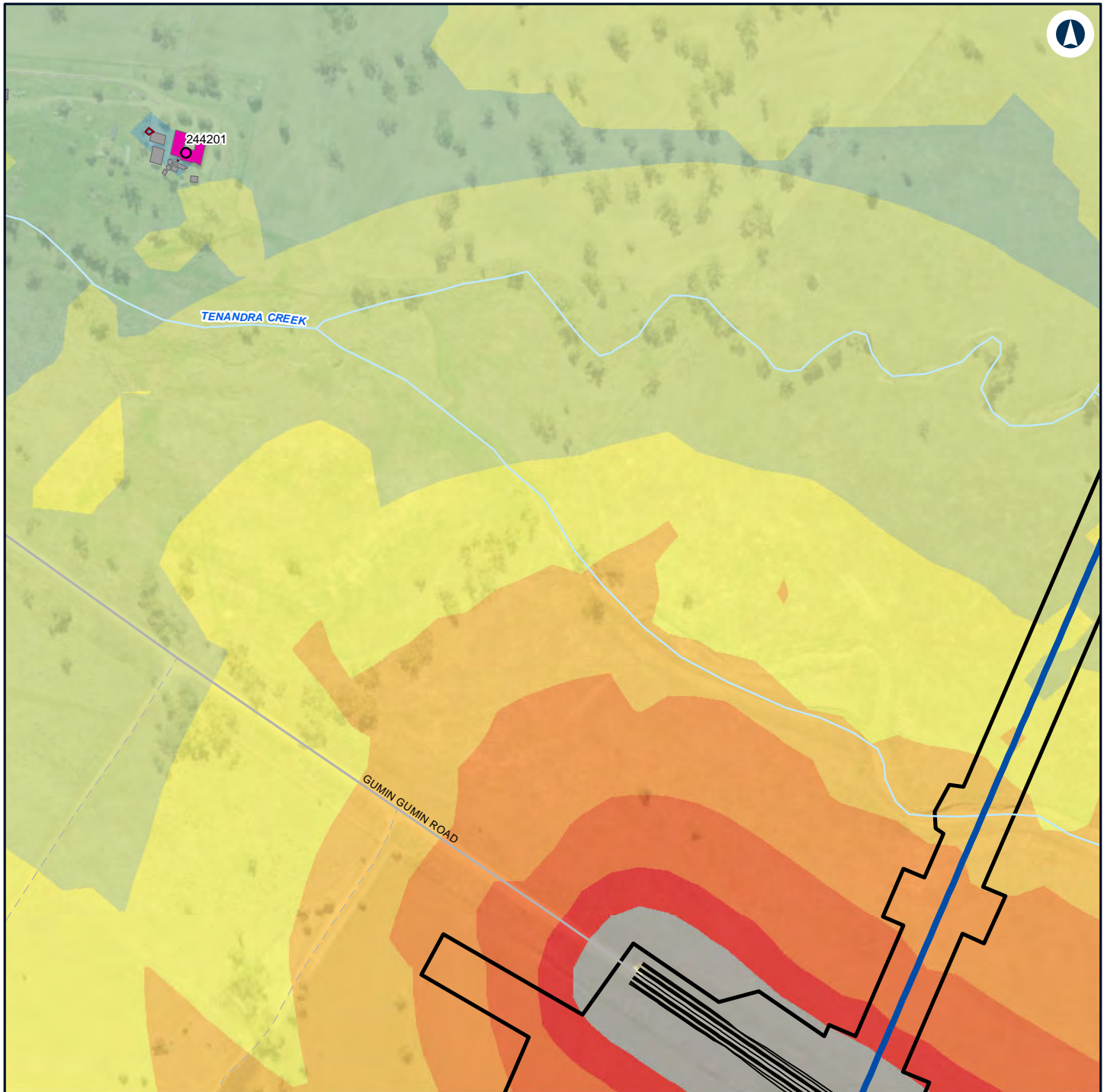
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#### LEGEND

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



#### NARROMINE TO NARRABRI

#### Construction noise contours, Scenario ROAD03 - Road Earthworks

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0 0.1 0.2  
Km

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#### LEGEND

<b>Structure type</b>		40 - 45
Residential		45 - 50
Other		50 - 55
Residential		
<b>Noise level (dBA L Aeq 15 minute)</b>		
		35 - 40



#### NARROMINE TO NARRABRI

#### Construction noise contours, Scenario ROAD03 - Road Earthworks

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0 0.1 0.2  
Km

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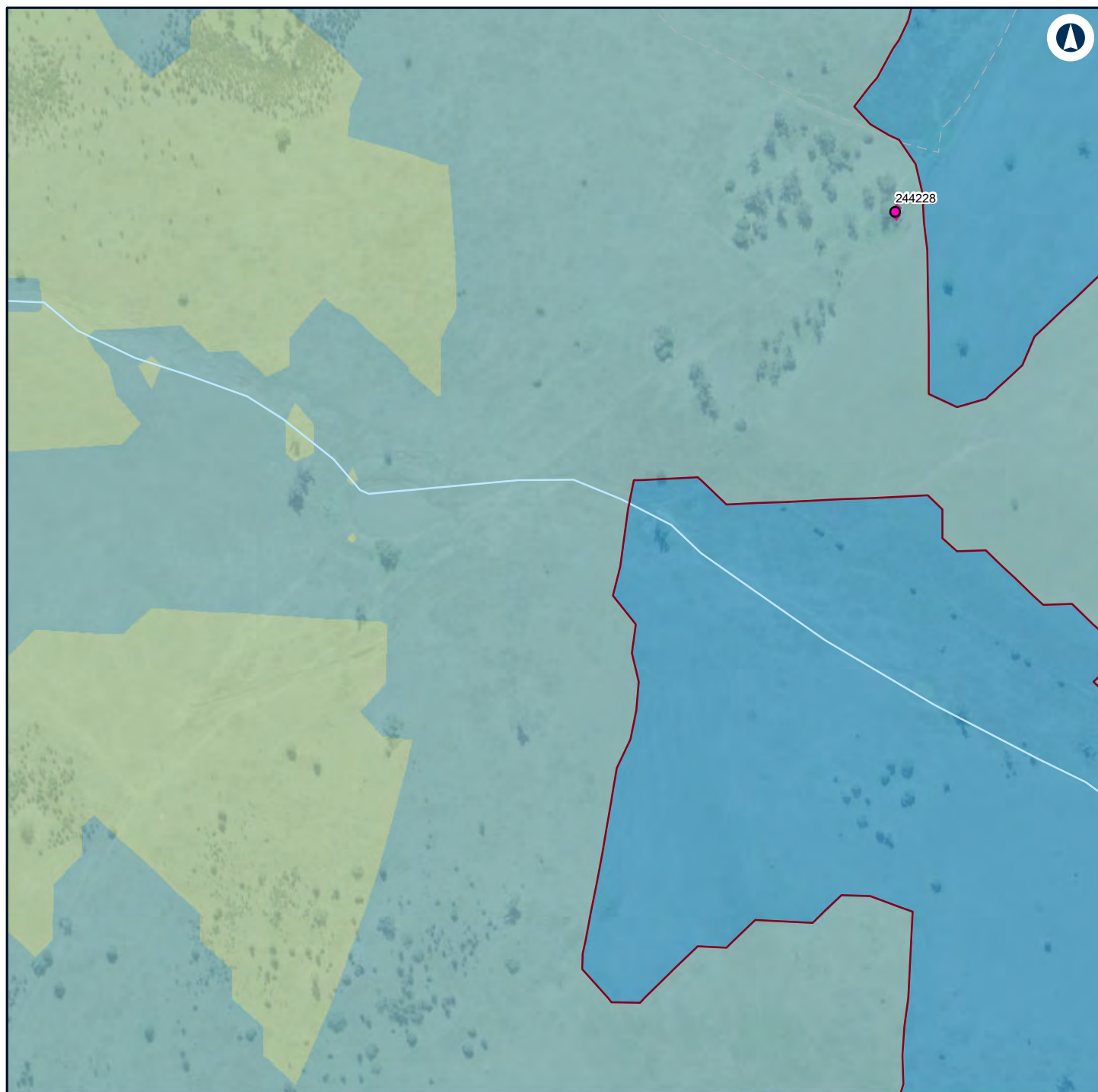
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## LEGEND

**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

Appendix G - Page 182 of 304

0 0.1 0.2  
Km

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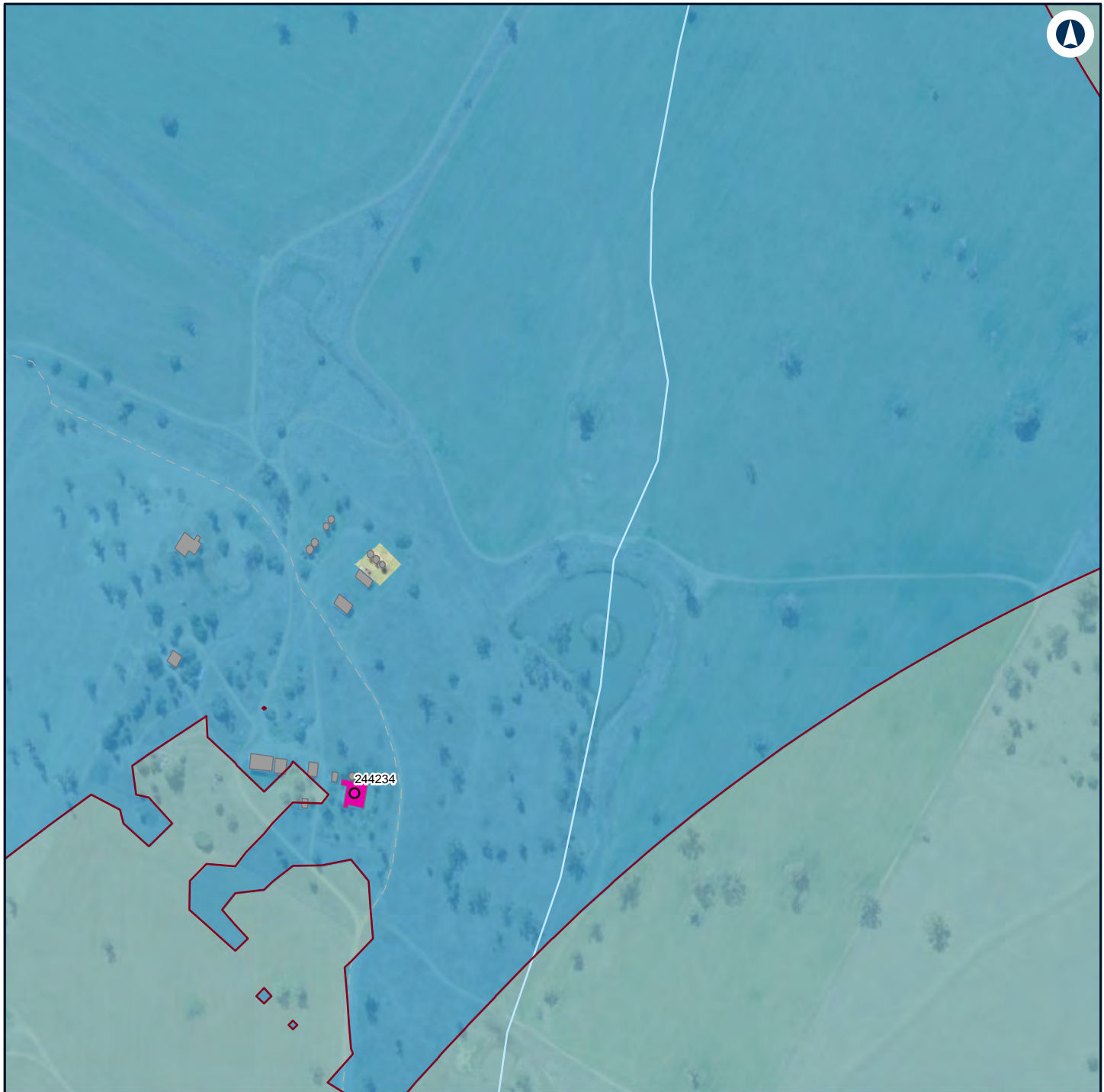
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#### LEGEND

- Structure type**
- Residential
  - Other
  - 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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0 0.1 0.2  
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 16/07/2020

Paper: A4

Author: GHD

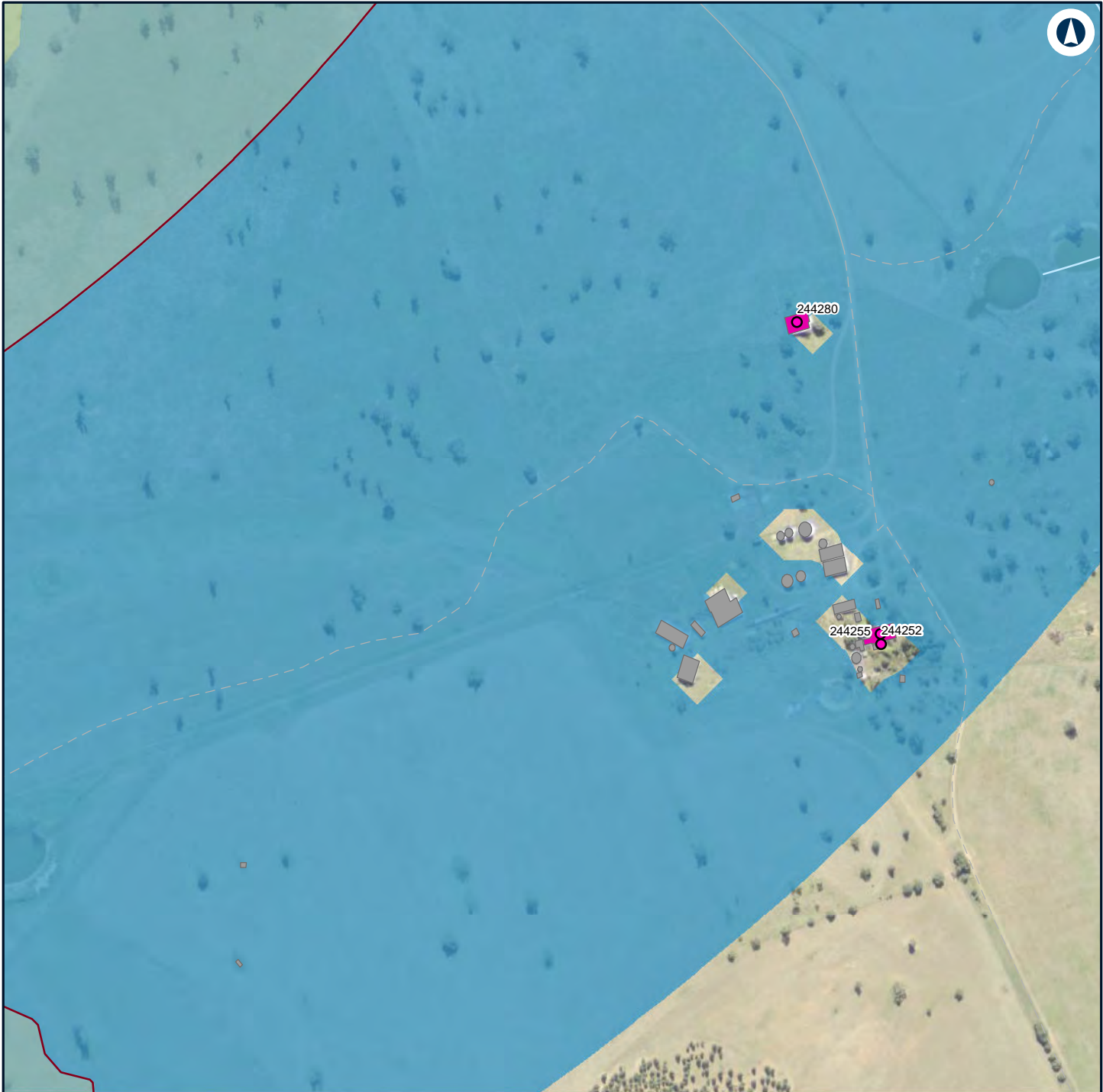
Scale: 1:5,000

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

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#### LEGEND

- Structure type**
- 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 184 of 304

0 0.1 0.2 Km

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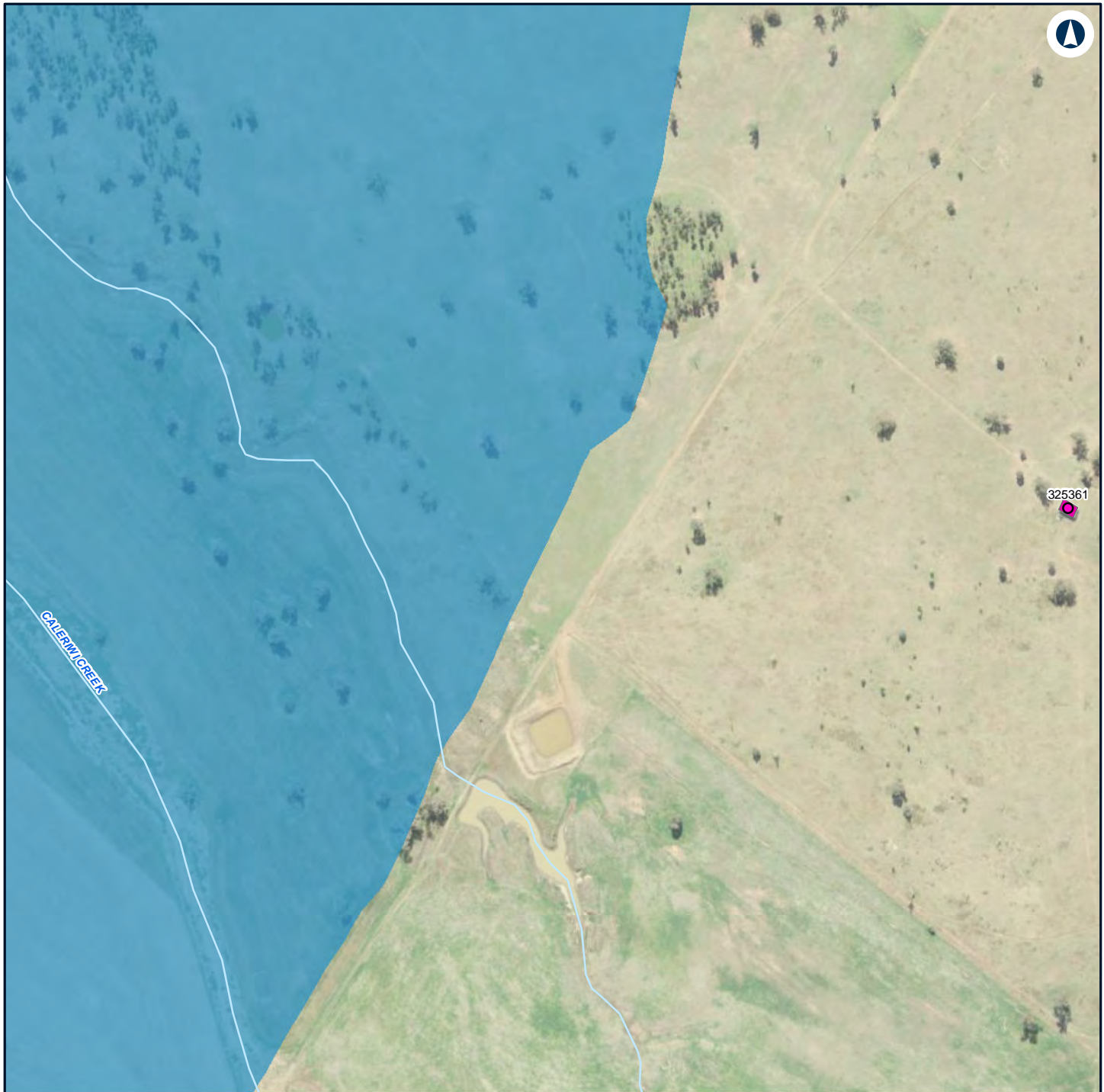
Author: GHD

Scale: 1:5,000

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

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## LEGEND

### Structure type

- Residential
- Residential

### Noise level (dBA L

Aeq 15 minute)

30 - 35



## NARROMINE TO NARRABRI

## Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 185 of 304

0 0.1 0.2  
Km

Coordinate System: GDA 1994 MGA Zone 55

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Author: GHD

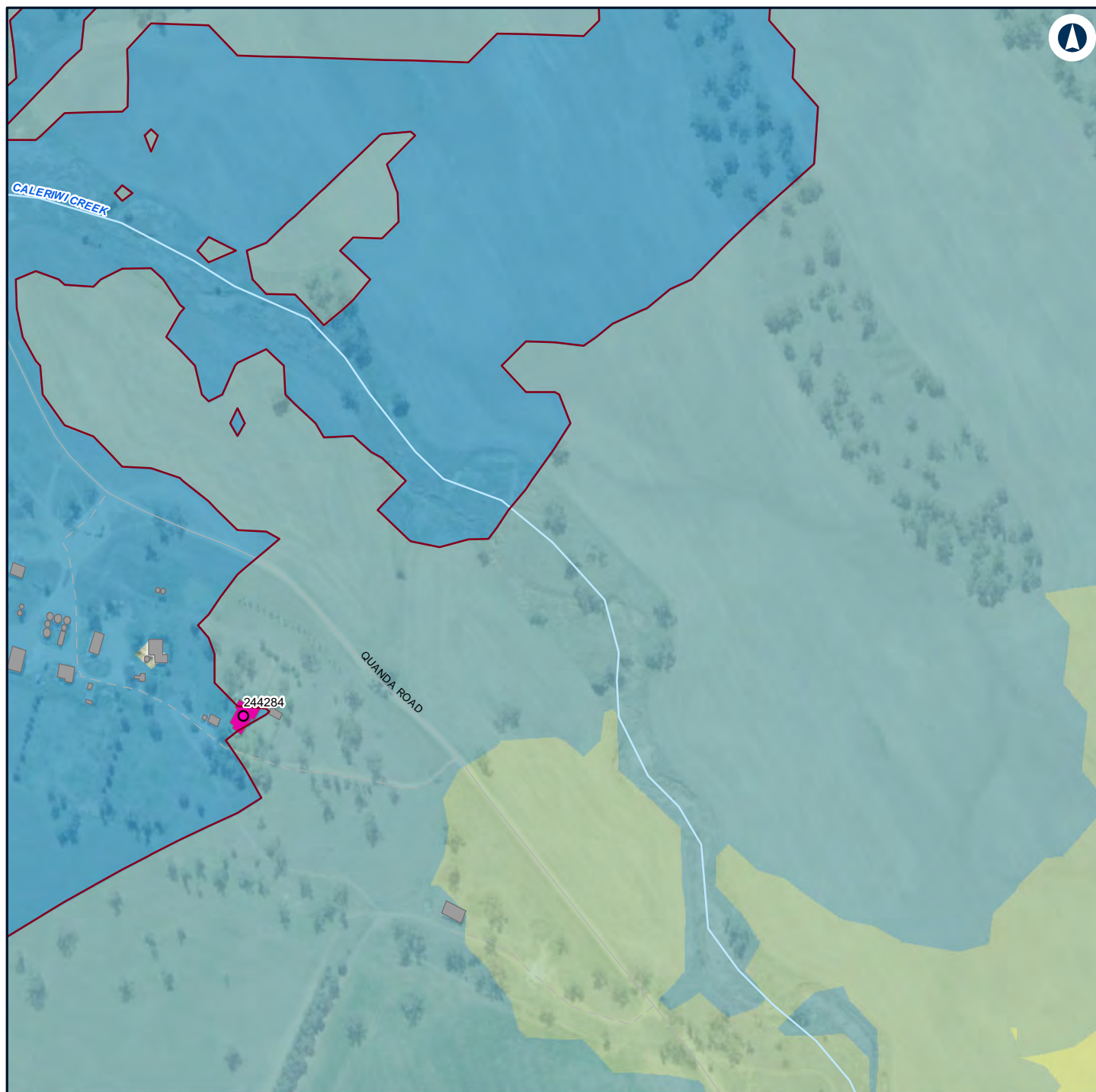
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

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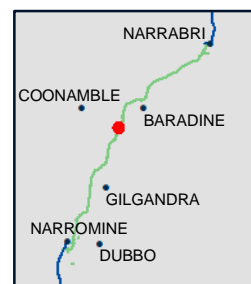
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## LEGEND

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



## NARROMINE TO NARRABRI

## Construction noise contours, Scenario ROAD03 - Road Earthworks

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0 0.1 0.2  
Km

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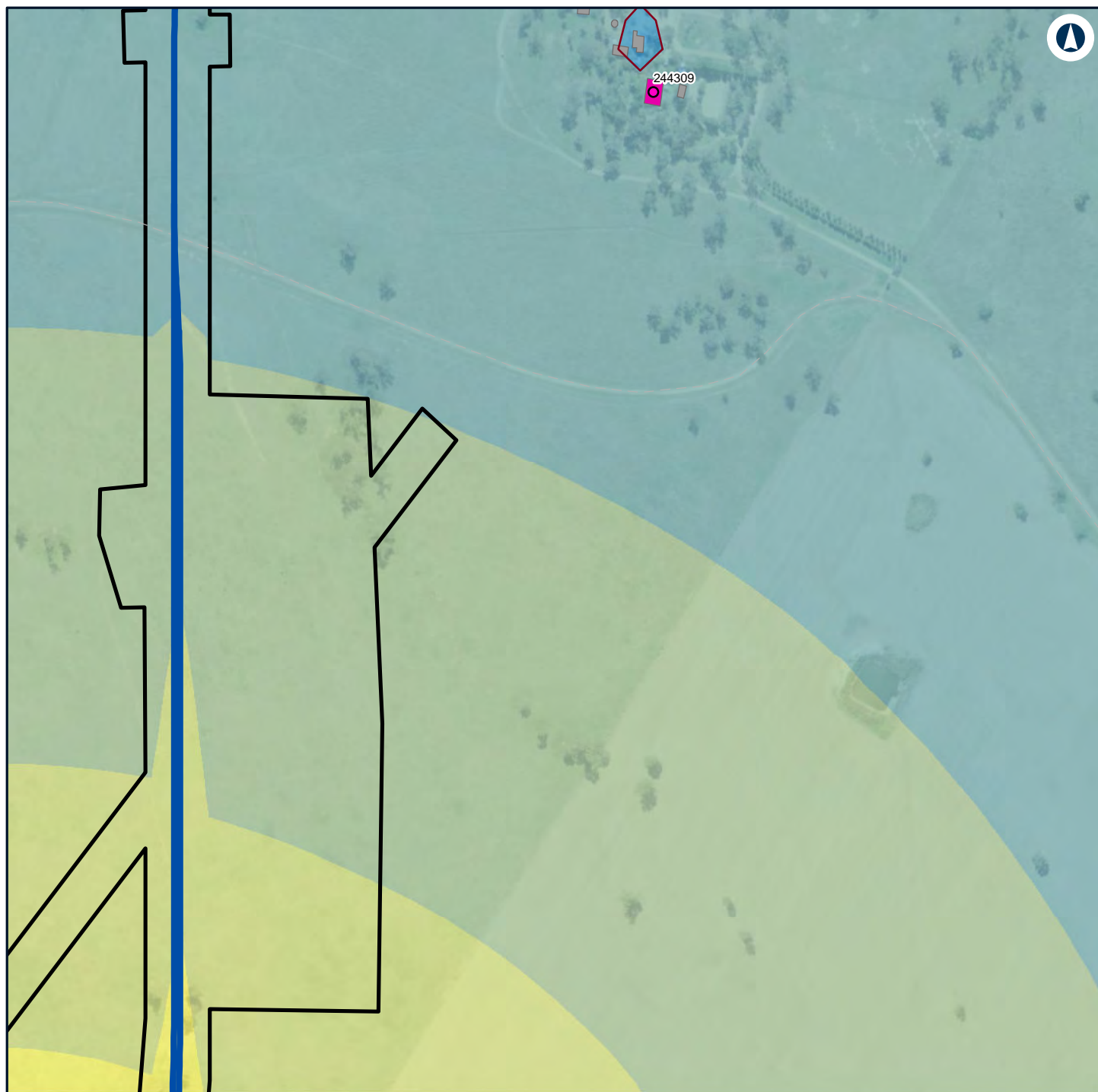
Author: GHD

Scale: 1:5,000

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

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#### LEGEND

Alignment

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

Appendix G - Page 187 of 304

0 0.1 0.2  
Km

Coordinate System: GDA 1994 MGA Zone 55

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Author: GHD

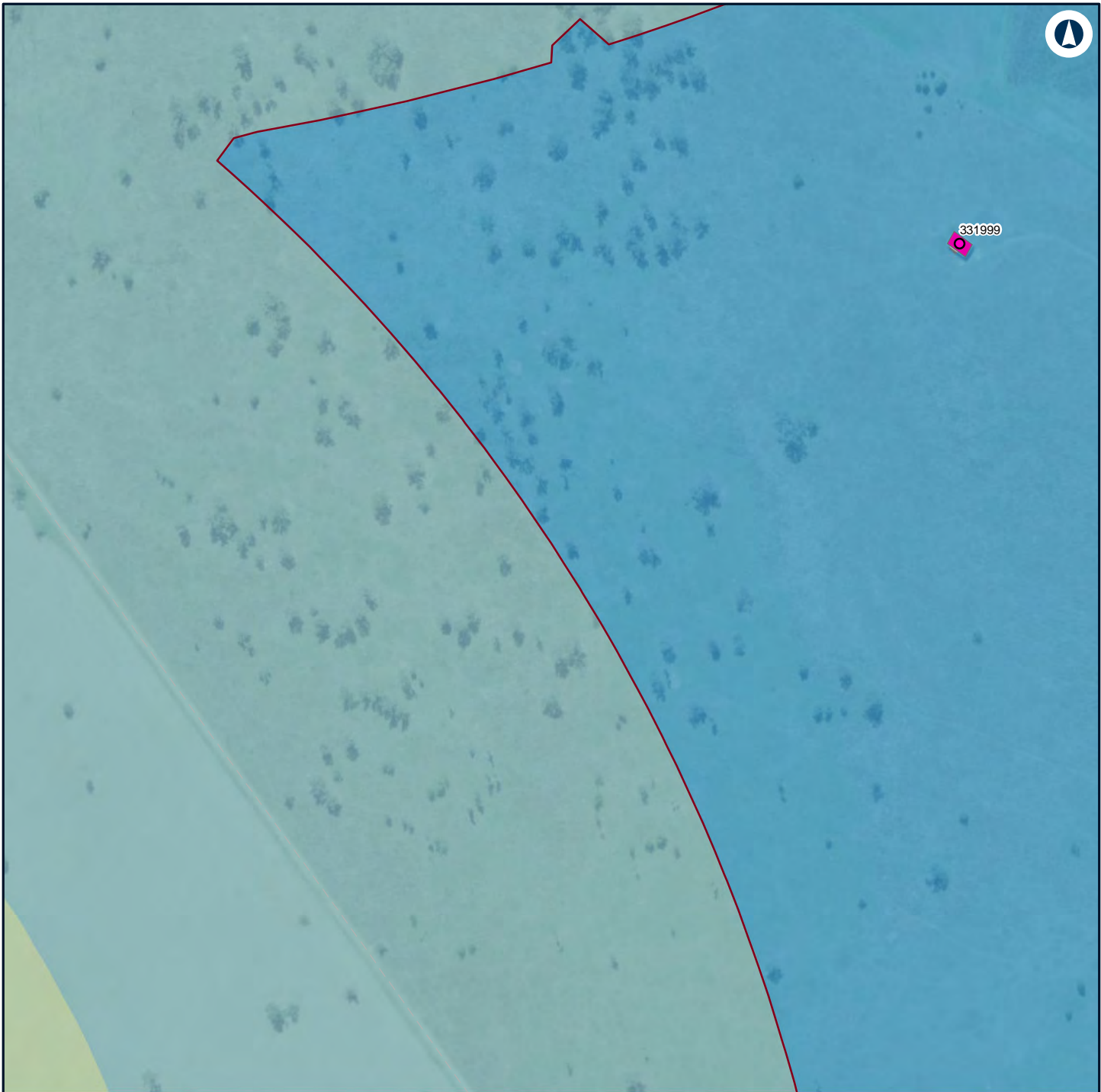
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

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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

Appendix G - Page 188 of 304

0 0.1 0.2 Km

Coordinate System: GDA 1994 MGA Zone 55

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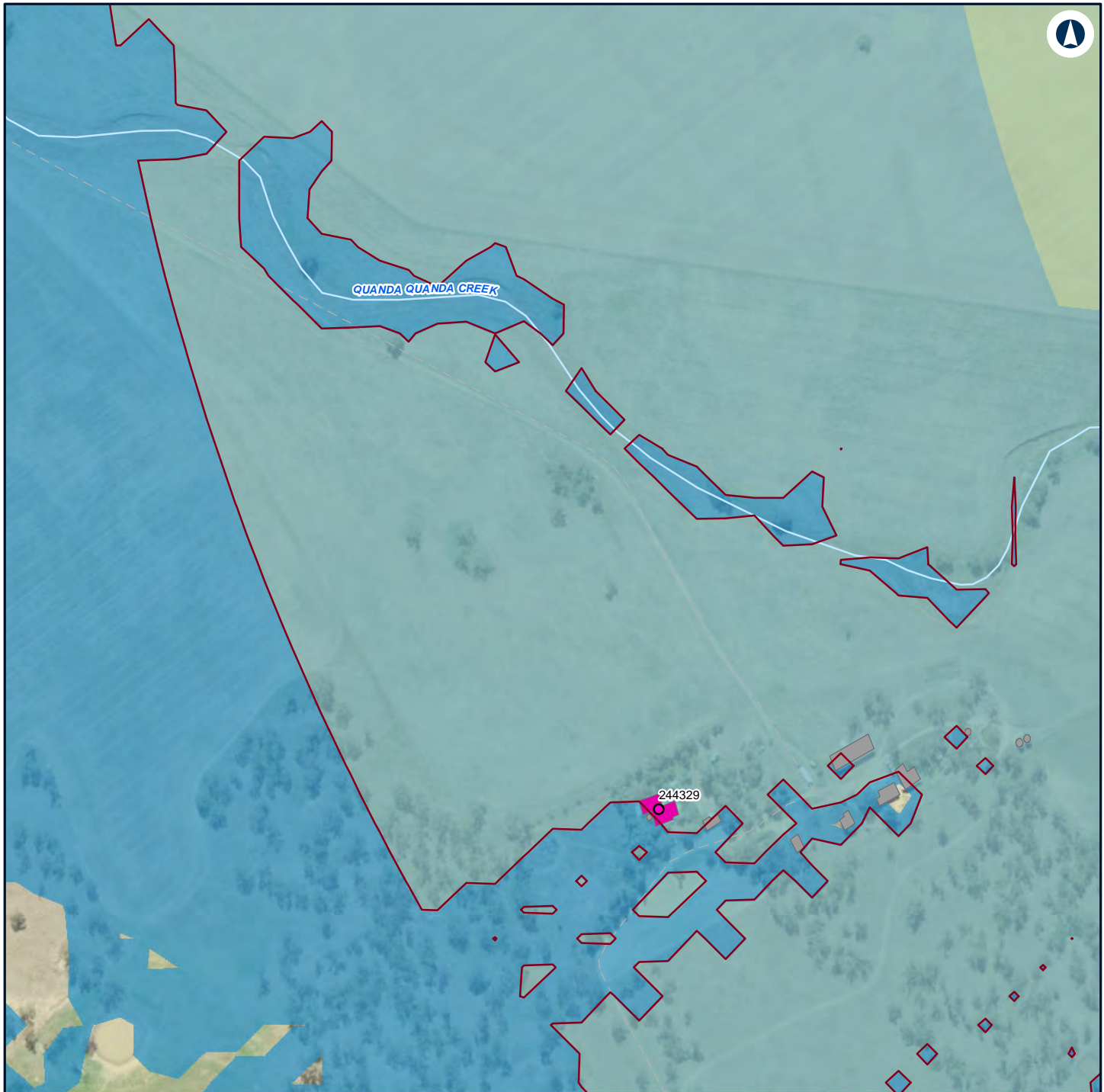
Date: 16/07/2020  
Author: GHD

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

Appendix G - Page 189 of 304

0 0.1 0.2  
Km

Coordinate System: GDA 1994 MGA Zone 55

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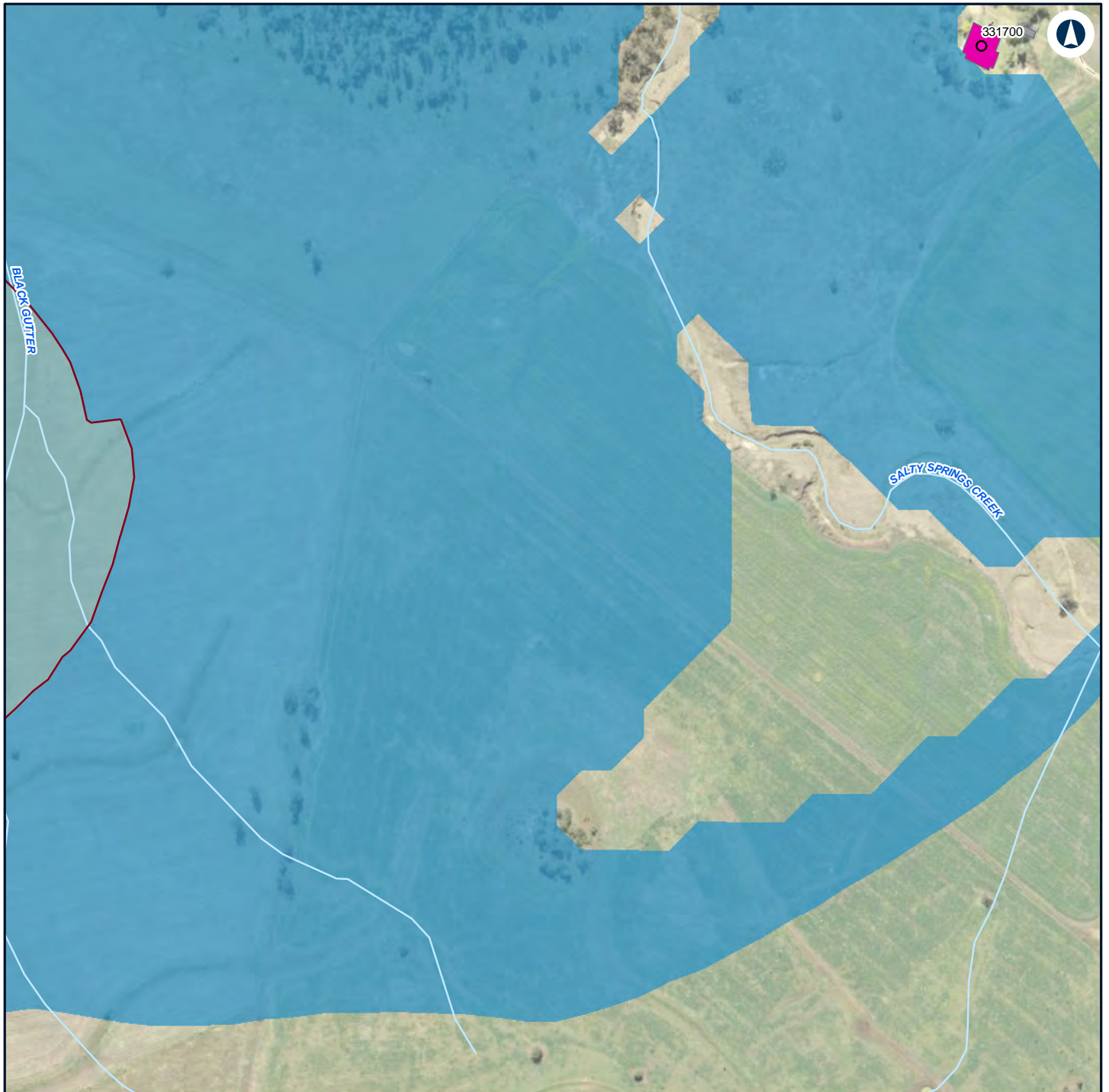
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

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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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0 0.1 0.2  
Km

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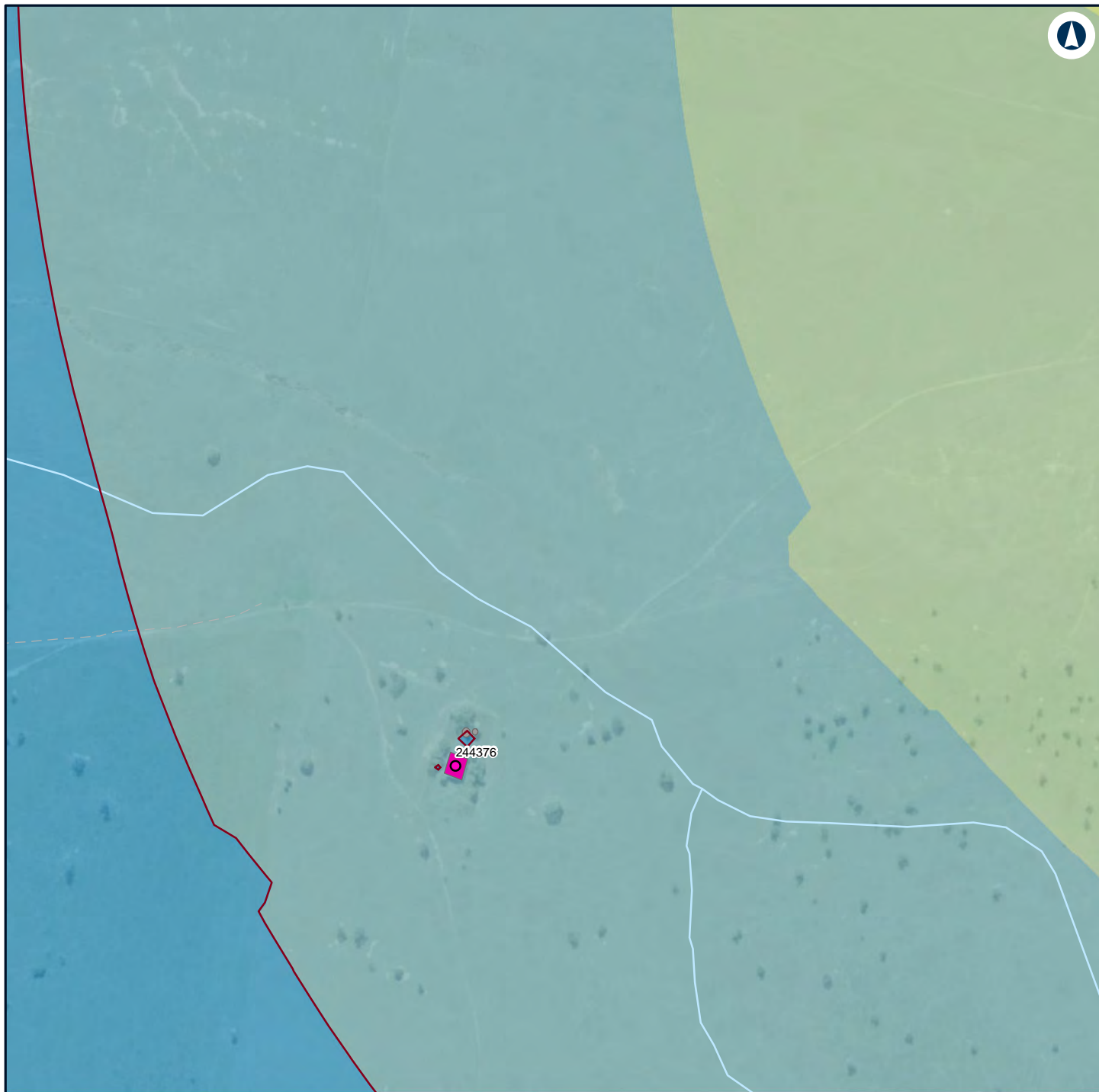
Author: GHD

Scale: 1:5,000

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

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## LEGEND

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



## NARROMINE TO NARRABRI

## Construction noise contours, Scenario ROAD03 - Road Earthworks

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0 0.1 0.2  
Km

Coordinate System: GDA 1994 MGA Zone 55

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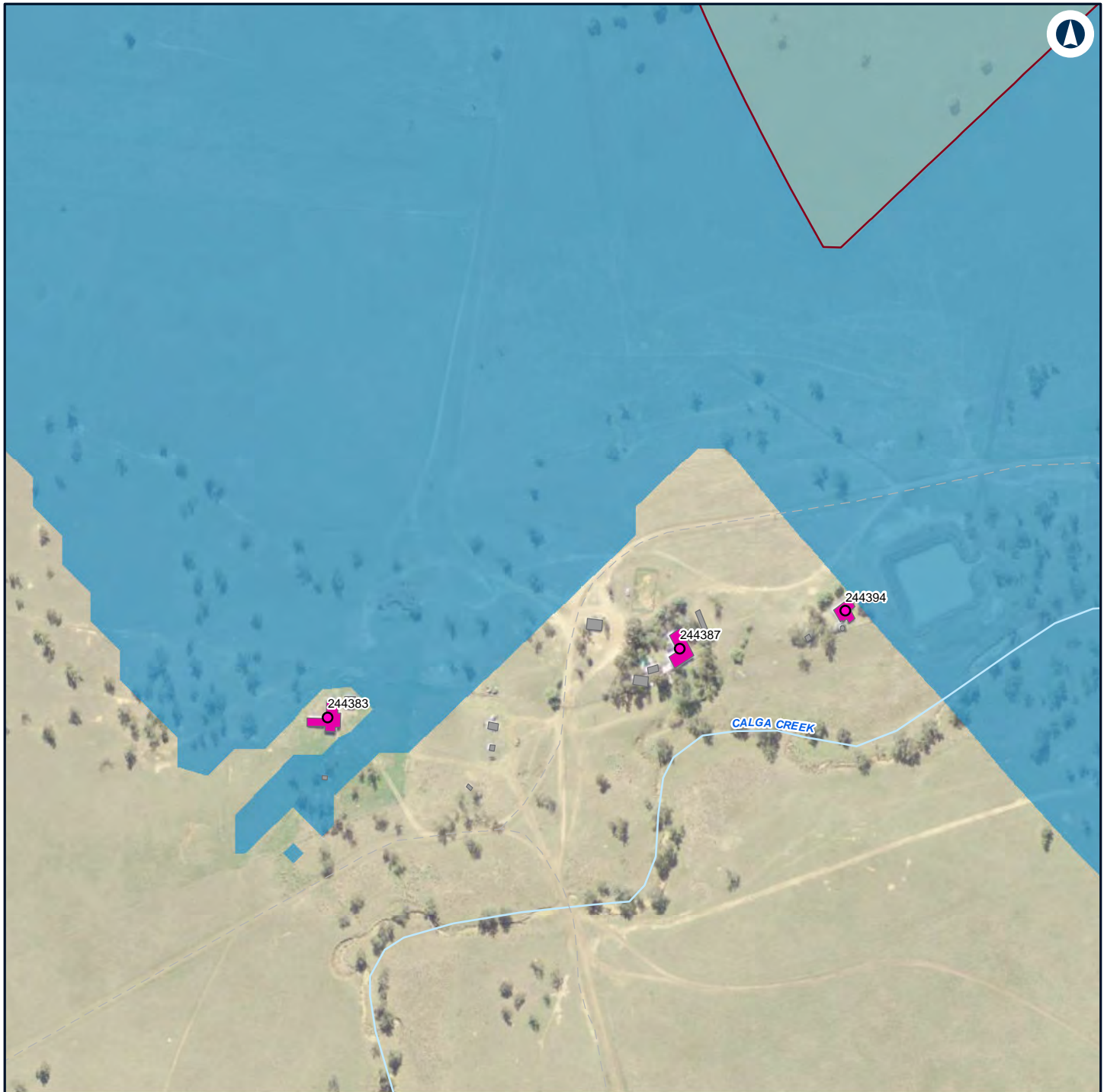
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

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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

Appendix G - Page 192 of 304

0 0.1 0.2  
Km

Coordinate System: GDA 1994 MGA Zone 55

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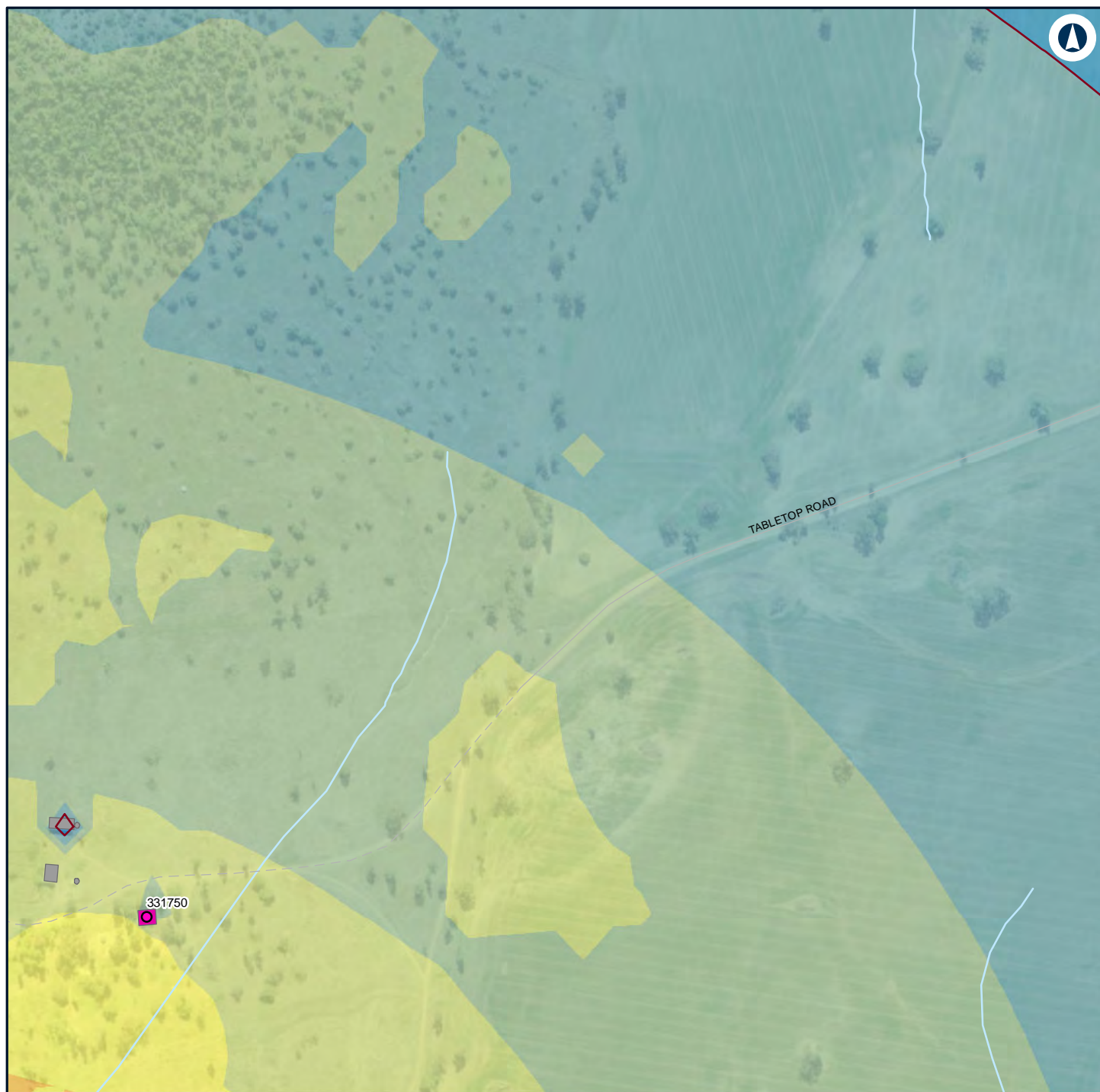
Author: GHD

Scale: 1:5,000

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

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## LEGEND

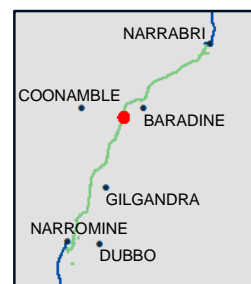
### Structure type

	Residential		35 - 40
	Other		40 - 45
	Residential		45 - 50
			50 - 55
			55 - 60

### Noise level (dBA L

Aeq 15 minute)

	30 - 35
--	---------



## NARROMINE TO NARRABRI

## Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 193 of 304



Coordinate System: GDA 1994 MGA Zone 55

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Author: GHD

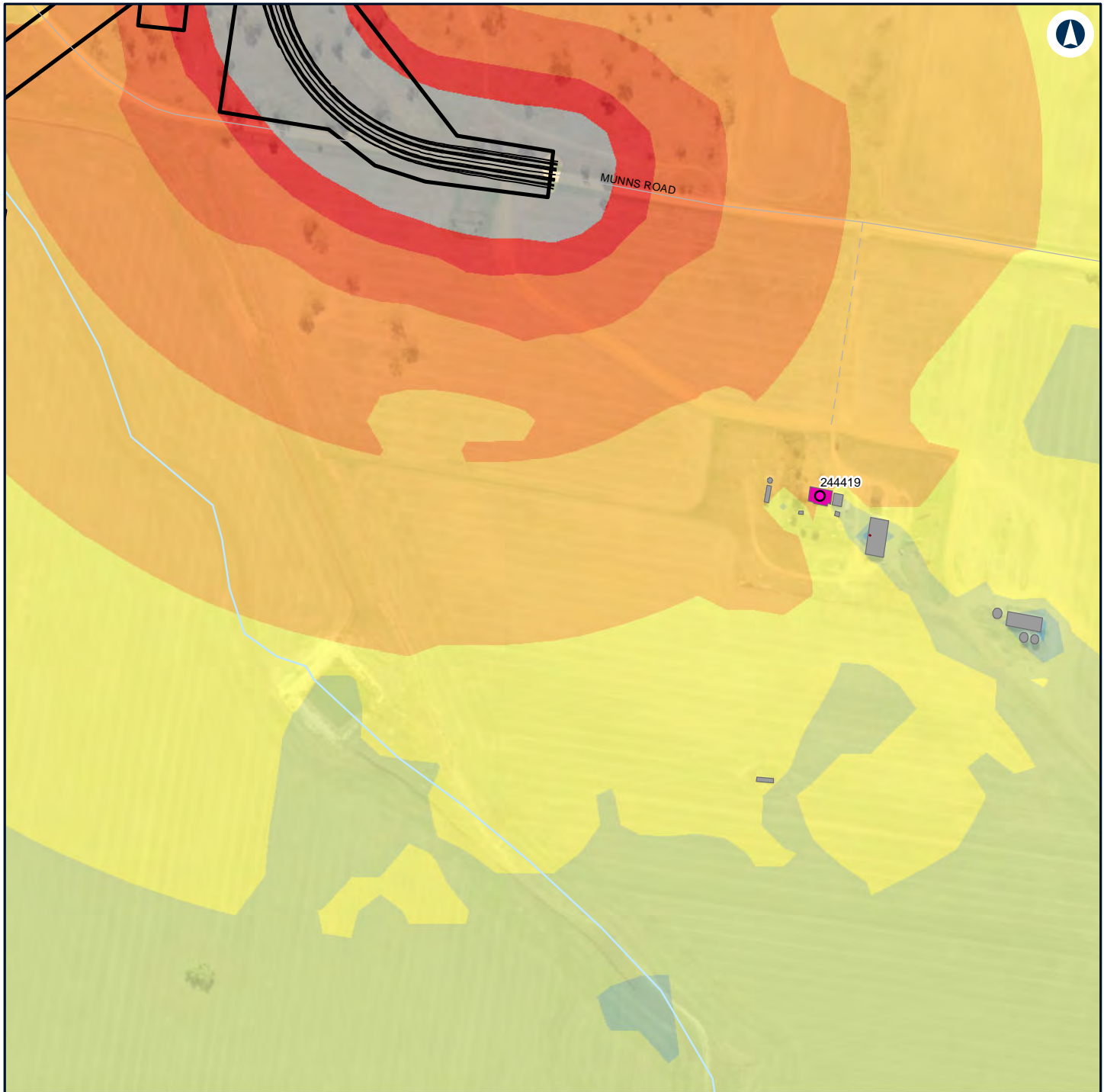
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

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#### LEGEND

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



#### NARROMINE TO NARRABRI

#### Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 194 of 304

0 0.1 0.2  
Km

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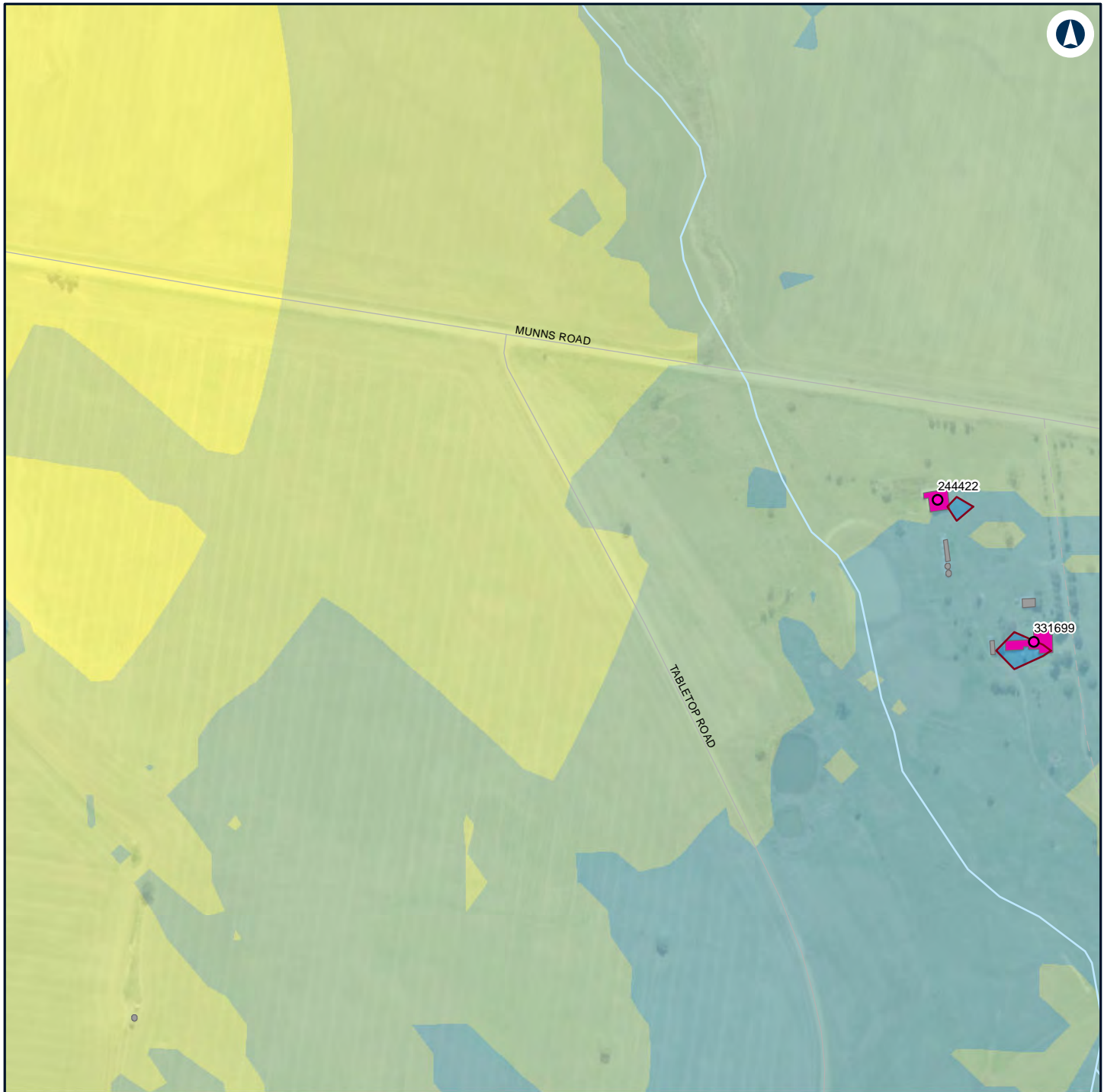
Author: GHD

Scale: 1:5,000

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

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#### LEGEND

Structure type	
<span style="color: magenta;">●</span> Residential	<span style="background-color: #4682B4;"> </span> 35 - 40
<span style="background-color: #808080;"> </span> Other	<span style="background-color: #90EE90;"> </span> 40 - 45
<span style="background-color: #FF00FF;"> </span> Residential	<span style="background-color: #FFFF00;"> </span> 45 - 50
	<span style="background-color: #FFFF00;"> </span> 50 - 55

#### Noise level (dBA L

Aeq 15 minute)

<span style="background-color: #4682B4;"> </span>	30 - 35
---	---------



#### NARROMINE TO NARRABRI

#### Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 195 of 304



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Author: GHD

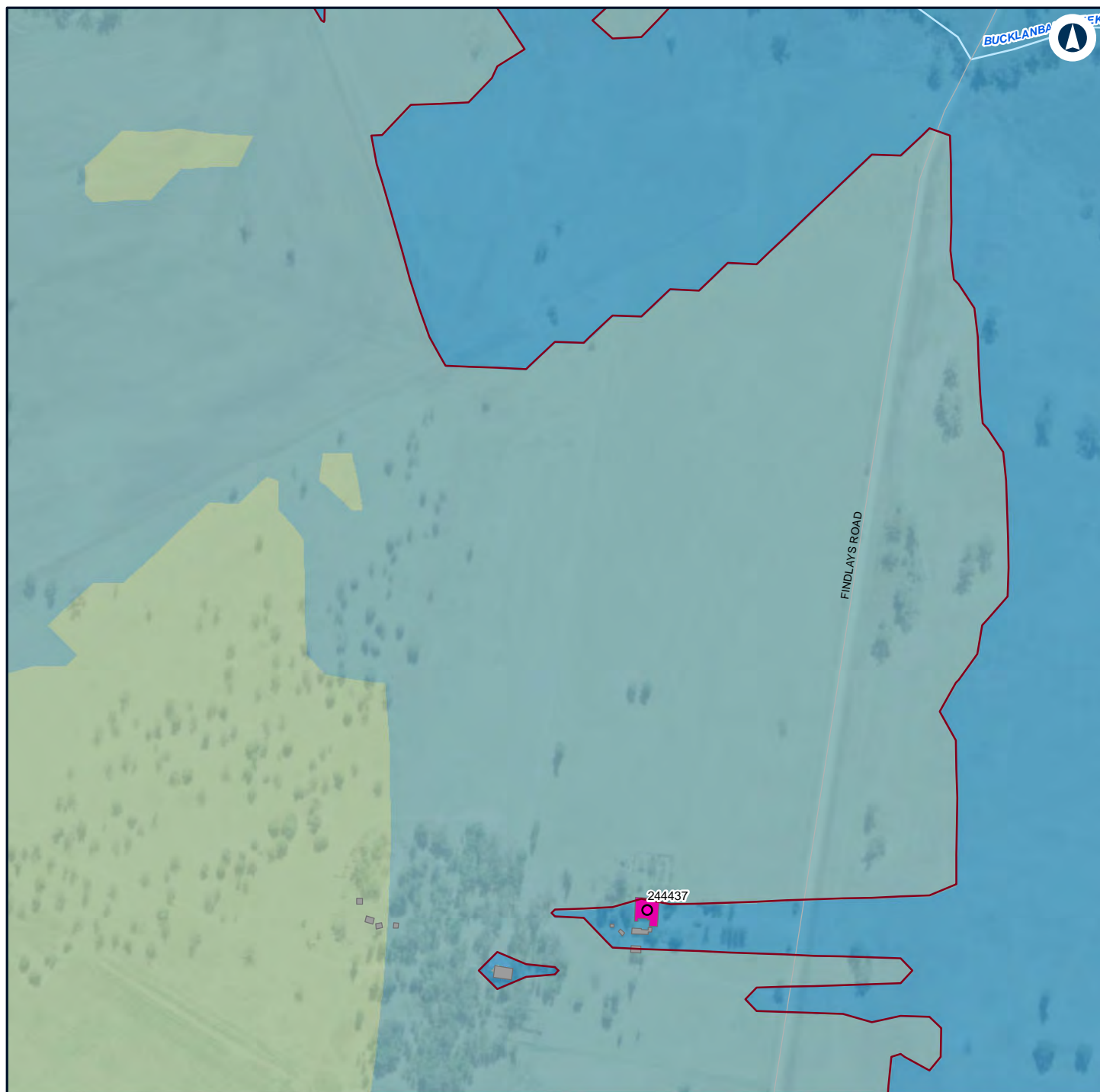
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

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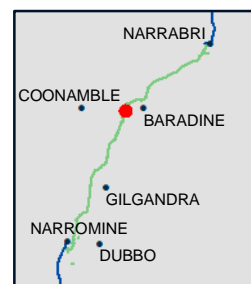
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## LEGEND

<b>Structure type</b>	35 - 40
Residential	40 - 45
Other	
Residential	
<b>Noise level (dBA L</b>	
<b>Aeq 15 minute)</b>	
30 - 35	



## NARROMINE TO NARRABRI

## Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 196 of 304

0 0.1 0.2  
Km

Coordinate System: GDA 1994 MGA Zone 55

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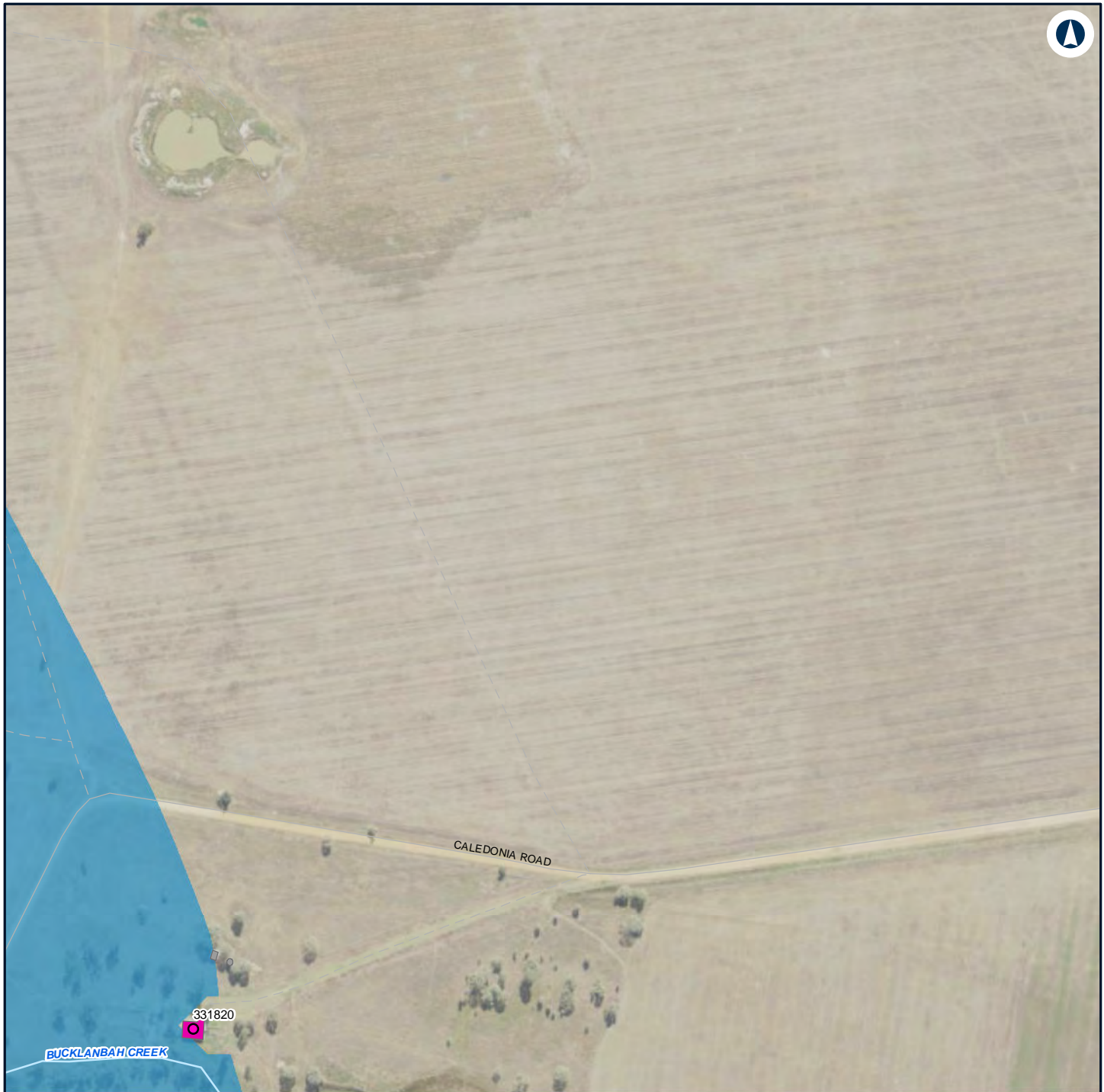
Author: GHD

Scale: 1:5,000

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

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## LEGEND

### Structure type

- Residential
- Other
- Residential

### Noise level (dBA L

Aeq 15 minute)

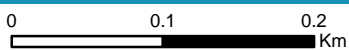
- 30 - 35



## 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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Author: GHD

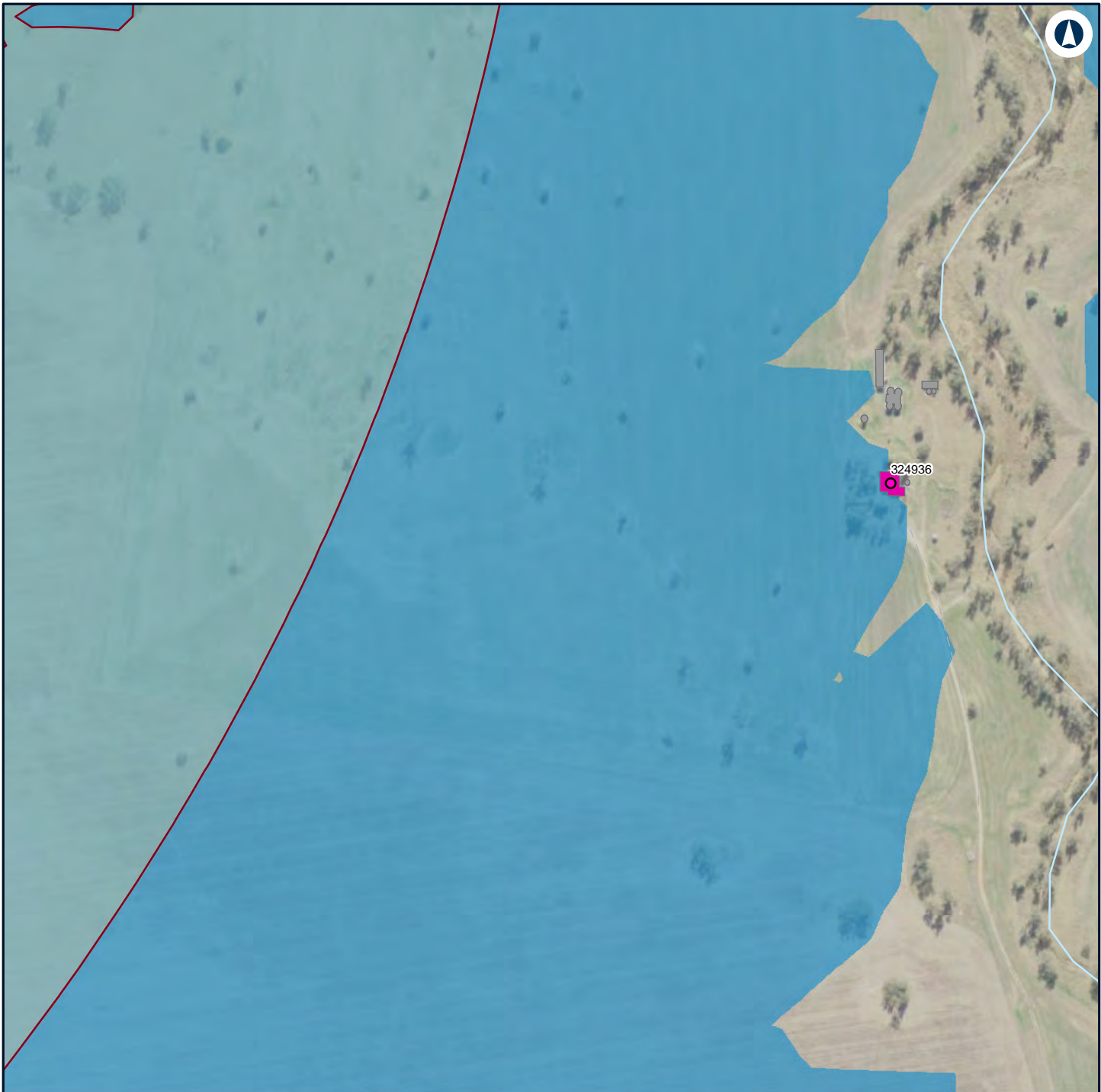
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

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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 198 of 304

0 0.1 0.2  
Km

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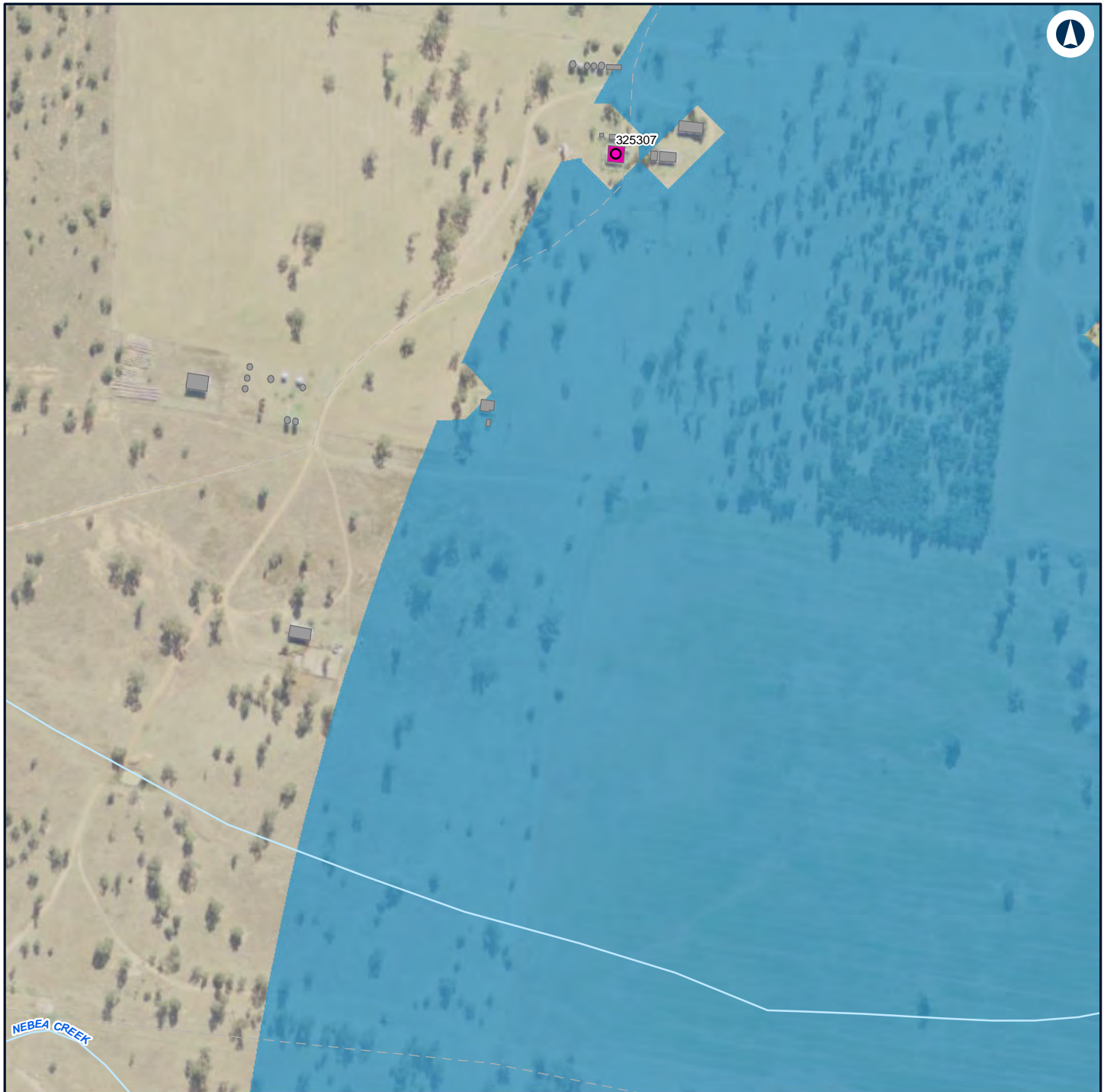
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

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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

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0 0.1 0.2  
Km

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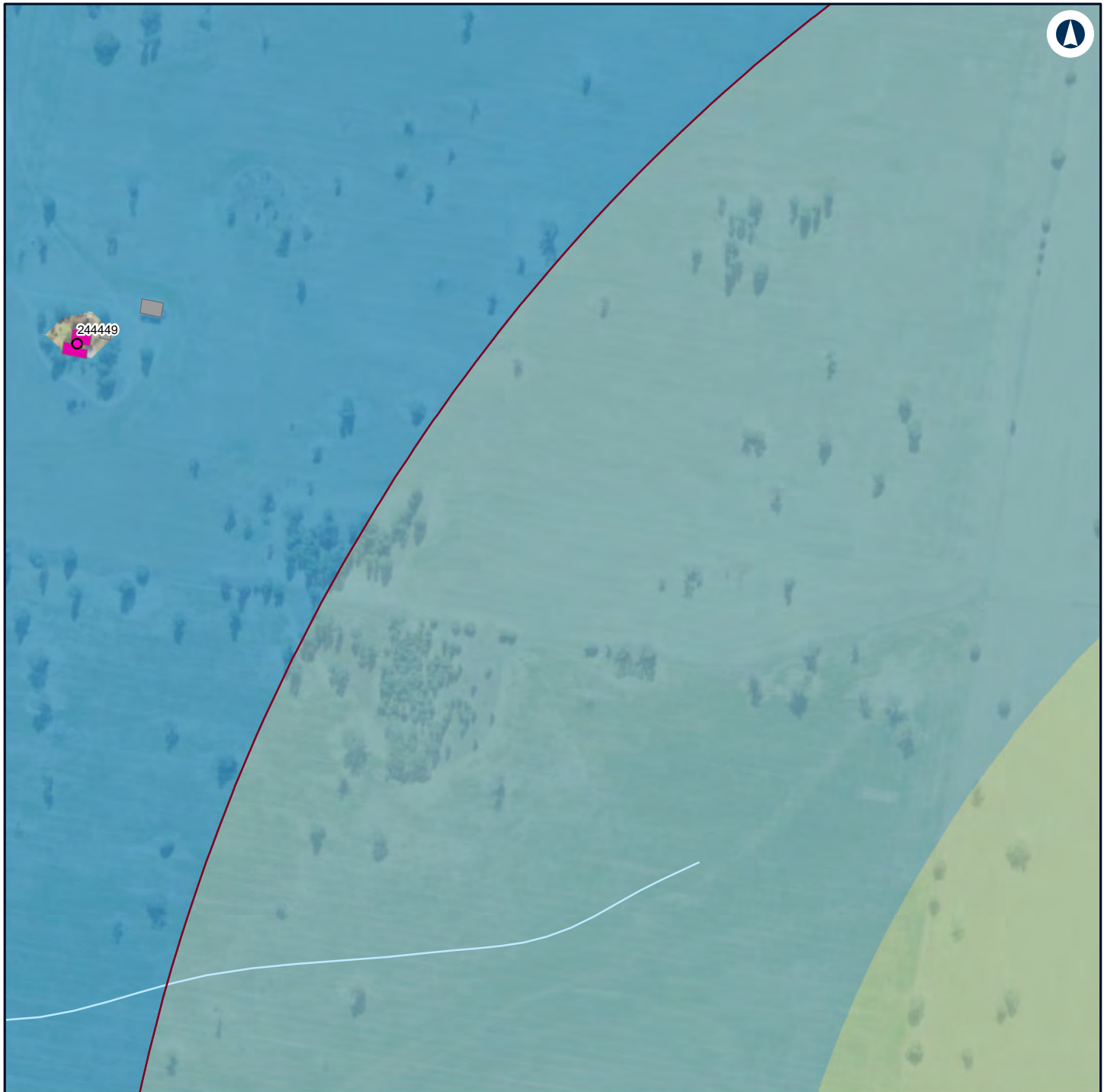
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#### LEGEND

- 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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0 0.1 0.2 Km

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## LEGEND

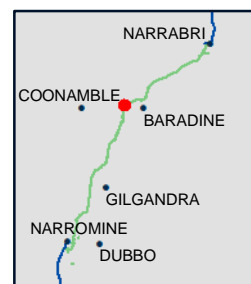
### Structure type

- 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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0 0.1 0.2  
Km

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## LEGEND

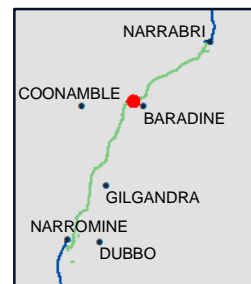
### Structure type

- 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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0 0.1 0.2  
Km

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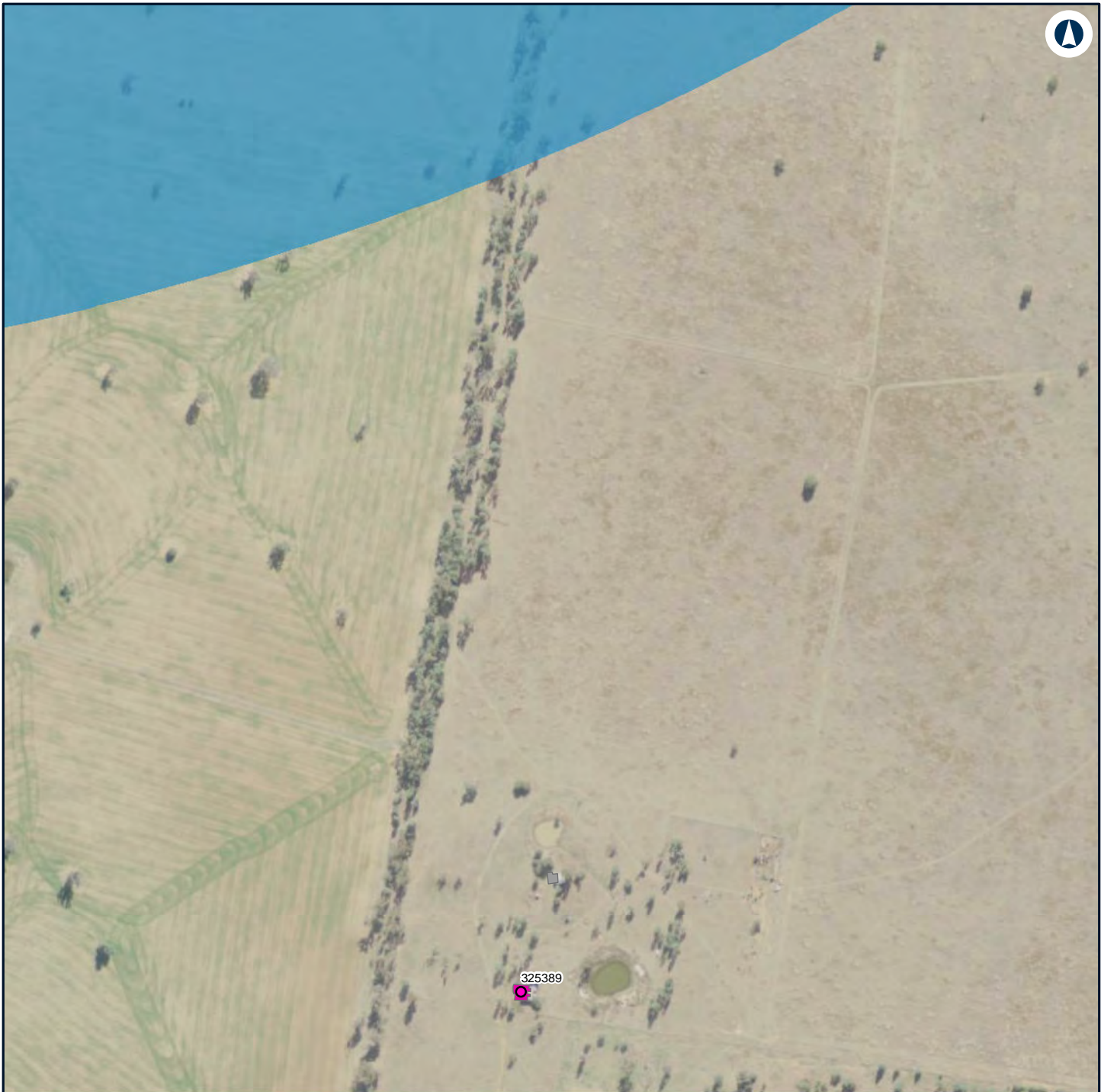
Author: GHD

Scale: 1:5,000

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

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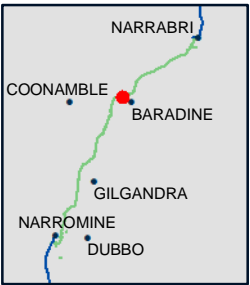
# LEGEND

## Structure type

- Residential
- Other
- Residential

## Noise level (dBA L Aeq 15 minute)

30 - 35



## NARROMINE TO NARRABRI

## Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 203 of 304

0 0.1 0.2  
Km

Coordinate System: GDA 1994 MGA Zone 55

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Author: GHD

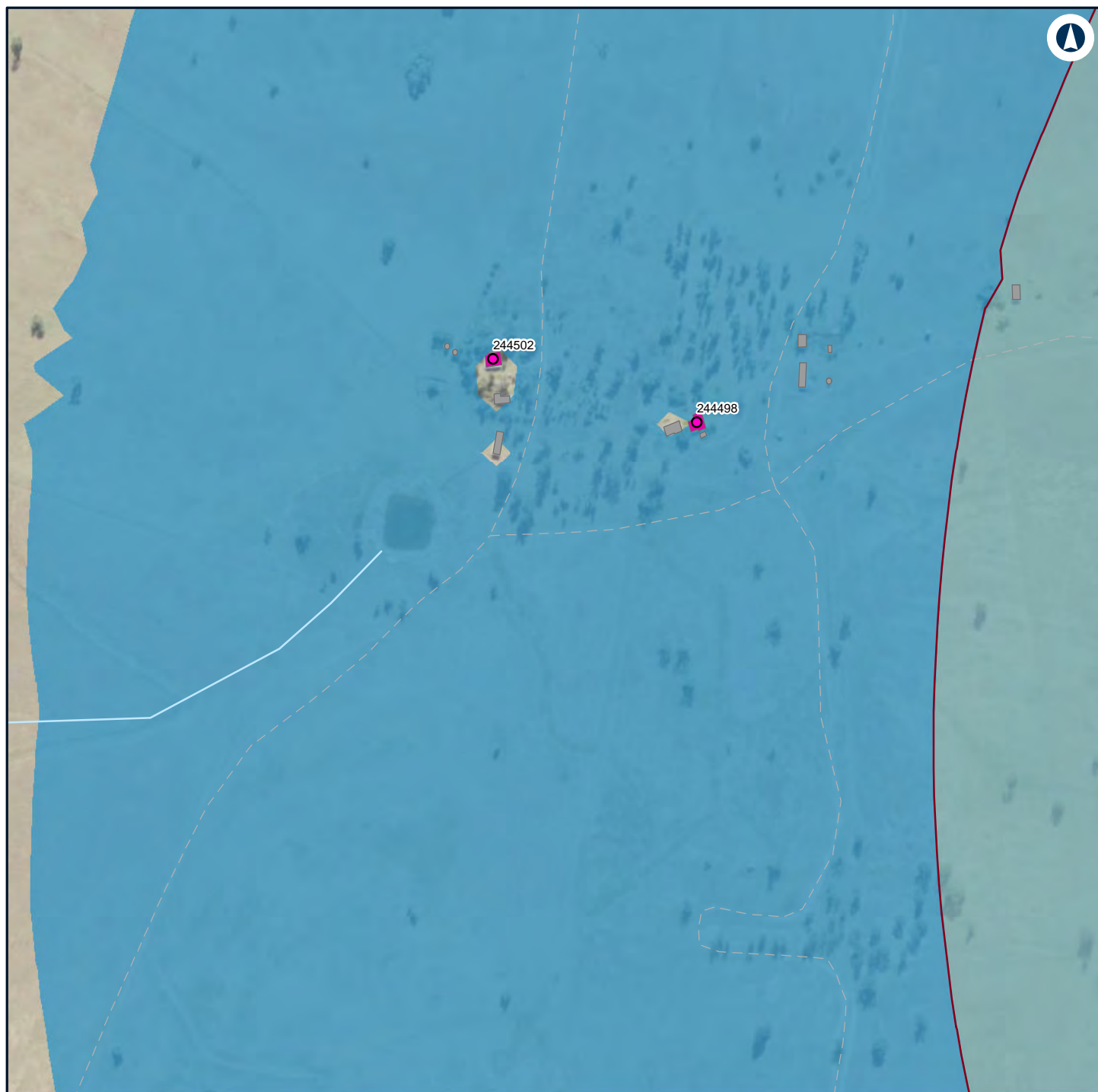
Paper: A4  
Scale: 1:5,000

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

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## LEGEND

### Structure type

- 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 204 of 304

0 0.1 0.2  
Km

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Author: GHD

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#### LEGEND

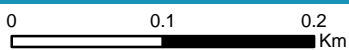
<b>Structure type</b>	35 - 40
● Residential	40 - 45
■ Other	
■ Residential	
<b>Noise level (dBA L</b>	
<b>Aeq 15 minute)</b>	
■ 30 - 35	



#### 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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Paper: A4

Author: GHD

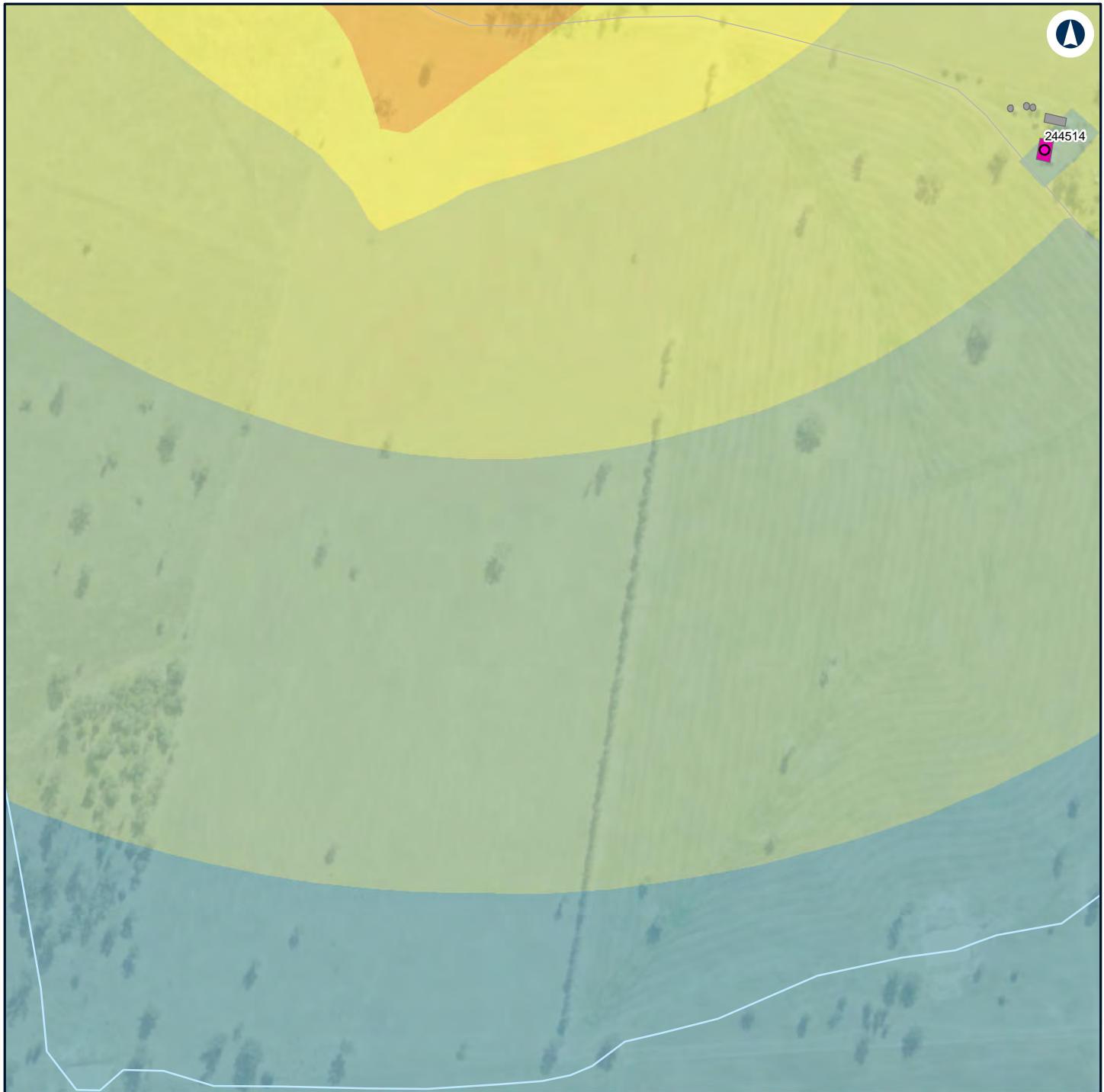
Scale: 1:5,000

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

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#### LEGEND

<b>Structure type</b>		
Residential	40 - 45	45 - 50
Other	50 - 55	55 - 60
Residential		

#### Noise level (dBA L

Aeq 15 minute)

35 - 40
---------



#### NARROMINE TO NARRABRI

#### Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 206 of 304



Coordinate System: GDA 1994 MGA Zone 55

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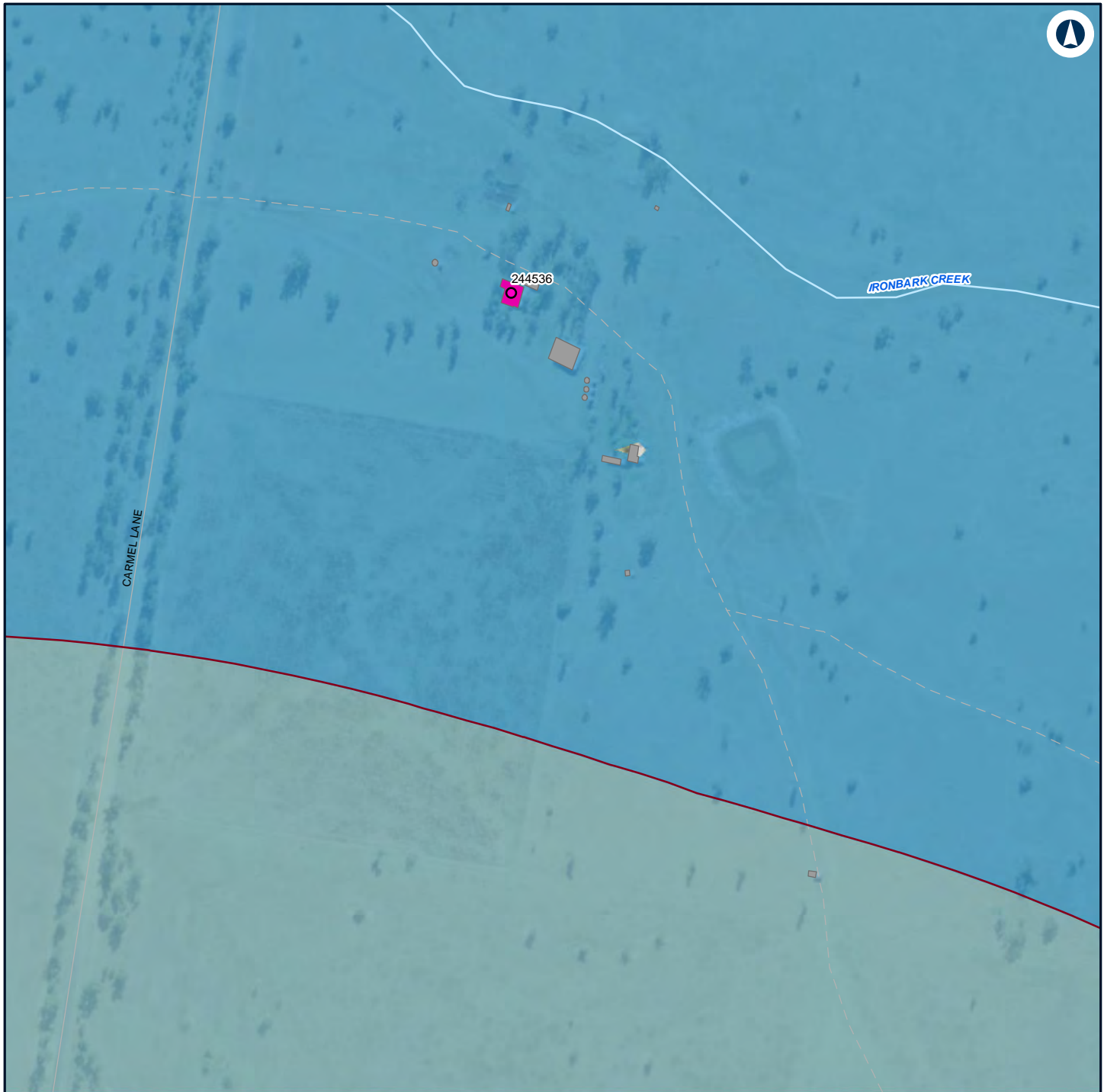
Author: GHD

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

Appendix G - Page 207 of 304

0 0.1 0.2  
Km

Coordinate System: GDA 1994 MGA Zone 55

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Author: GHD

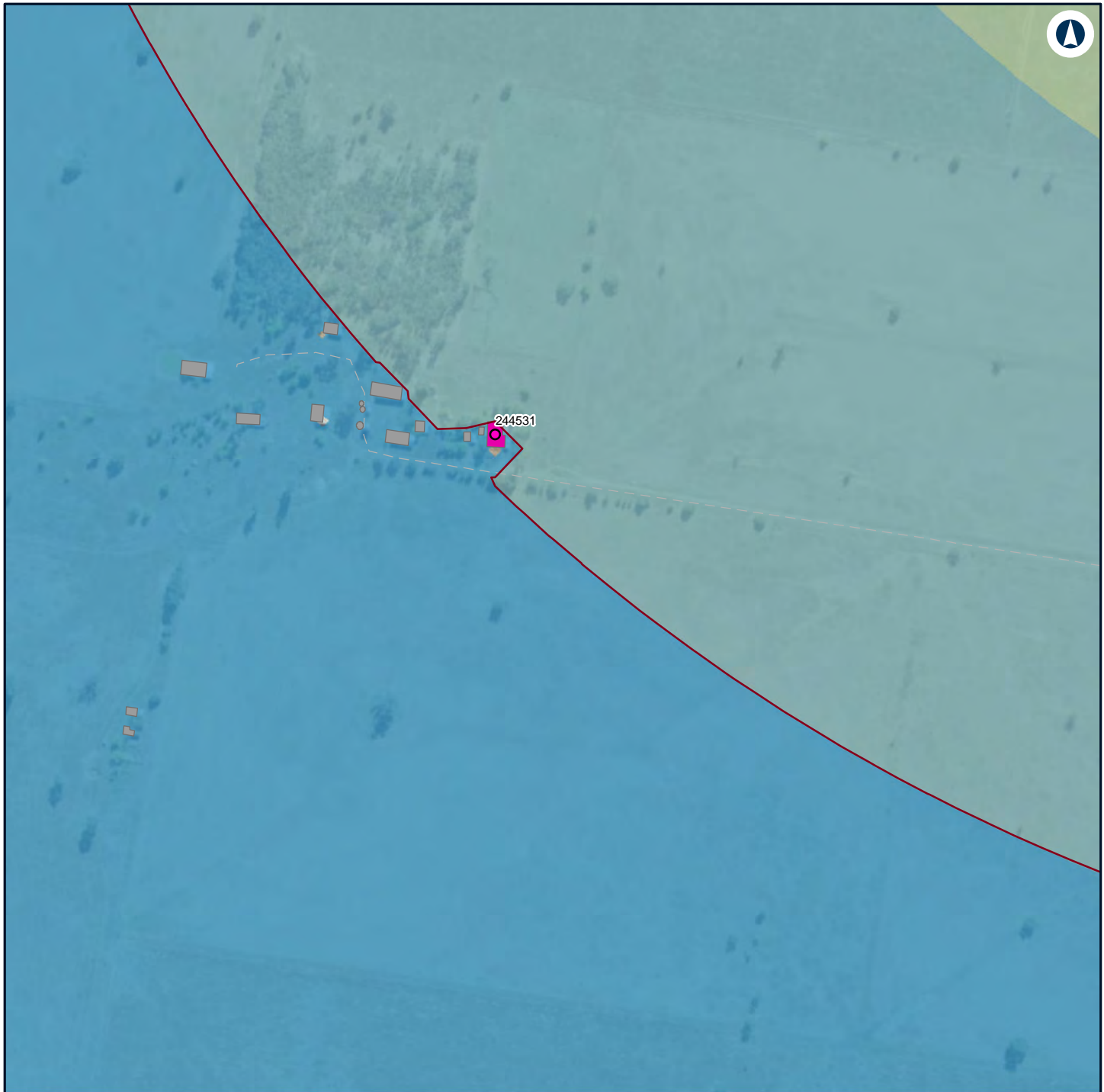
Scale: 1:5,000

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

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#### LEGEND

- Structure type**
- 35 - 40
  - 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 208 of 304

0 0.1 0.2  
Km

Coordinate System: GDA 1994 MGA Zone 55

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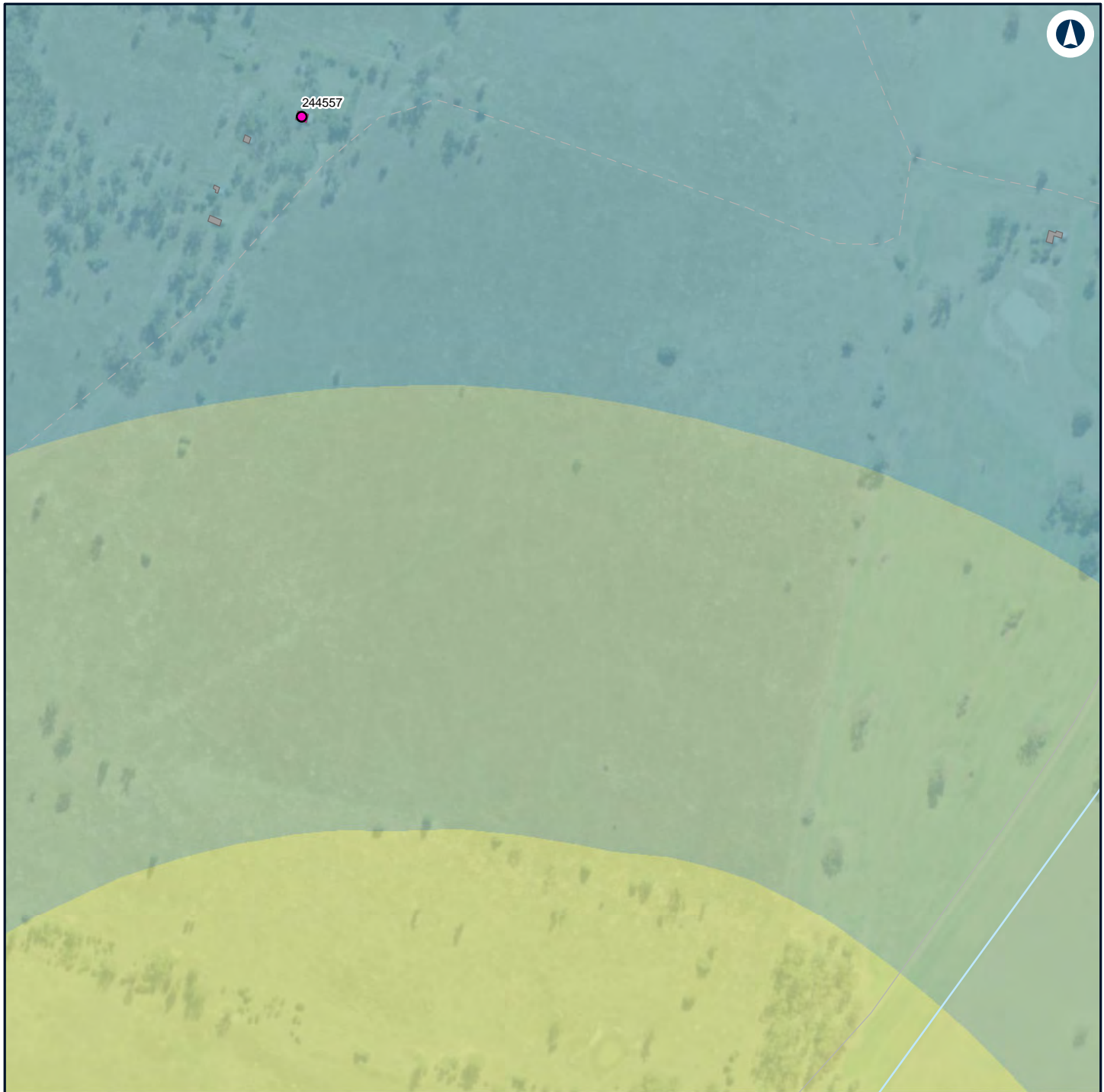
Author: GHD

Scale: 1:5,000

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

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#### LEGEND

<b>Structure type</b>		40 - 45
<span style="color: magenta;">●</span> Residential	<span style="background-color: yellow;"> </span>	45 - 50
<span style="background-color: grey;"> </span> Other		
<span style="background-color: magenta;"> </span> Residential		
<b>Noise level (dBA L Aeq 15 minute)</b>		
<span style="background-color: lightblue;"> </span>		35 - 40



#### NARROMINE TO NARRABRI

#### Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 209 of 304



Coordinate System: GDA 1994 MGA Zone 55

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Author: GHD

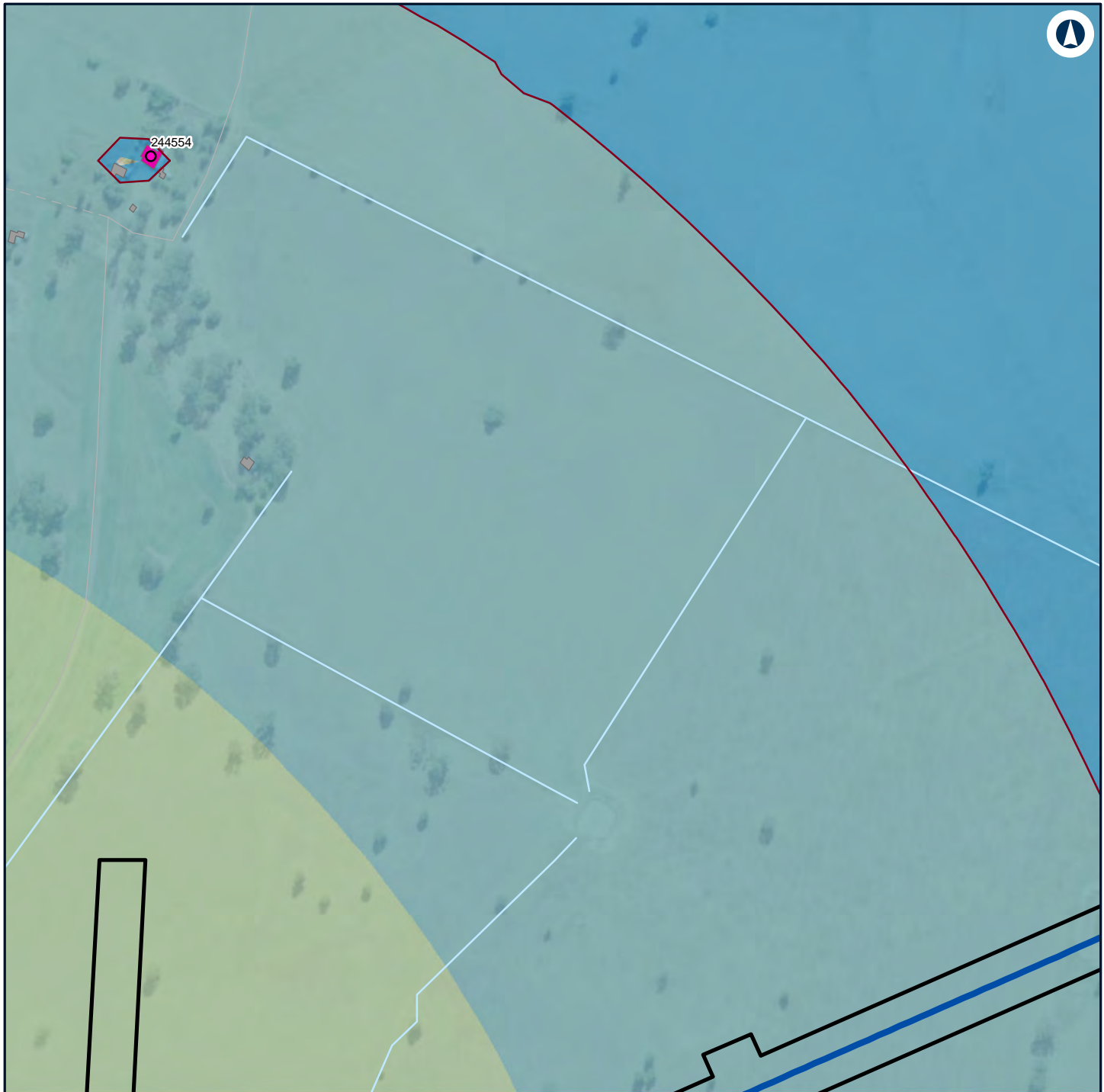
Scale: 1:5,000

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

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#### LEGEND

Alignment

Construction footprint

Structure type

Residential

Other

Residential

Noise level (dBA L

Aeq 15 minute)

30 - 35

35 - 40

40 - 45



#### NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 210 of 304

0 0.1 0.2 Km

Coordinate System: GDA 1994 MGA Zone 55

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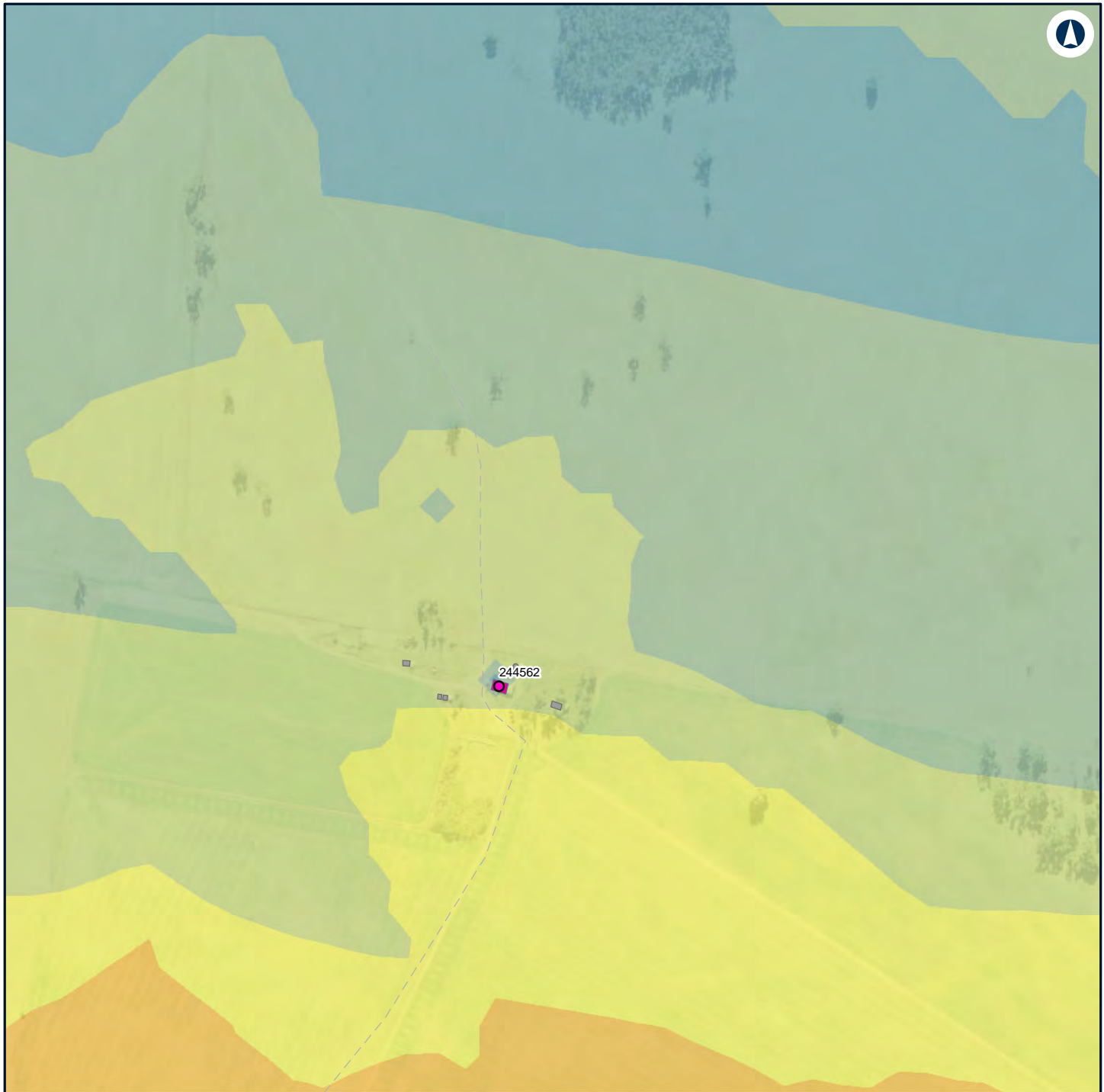
Author: GHD

Scale: 1:5,000

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

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#### LEGEND

<b>Structure type</b>		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

Appendix G - Page 211 of 304



Coordinate System: GDA 1994 MGA Zone 55

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Author: GHD

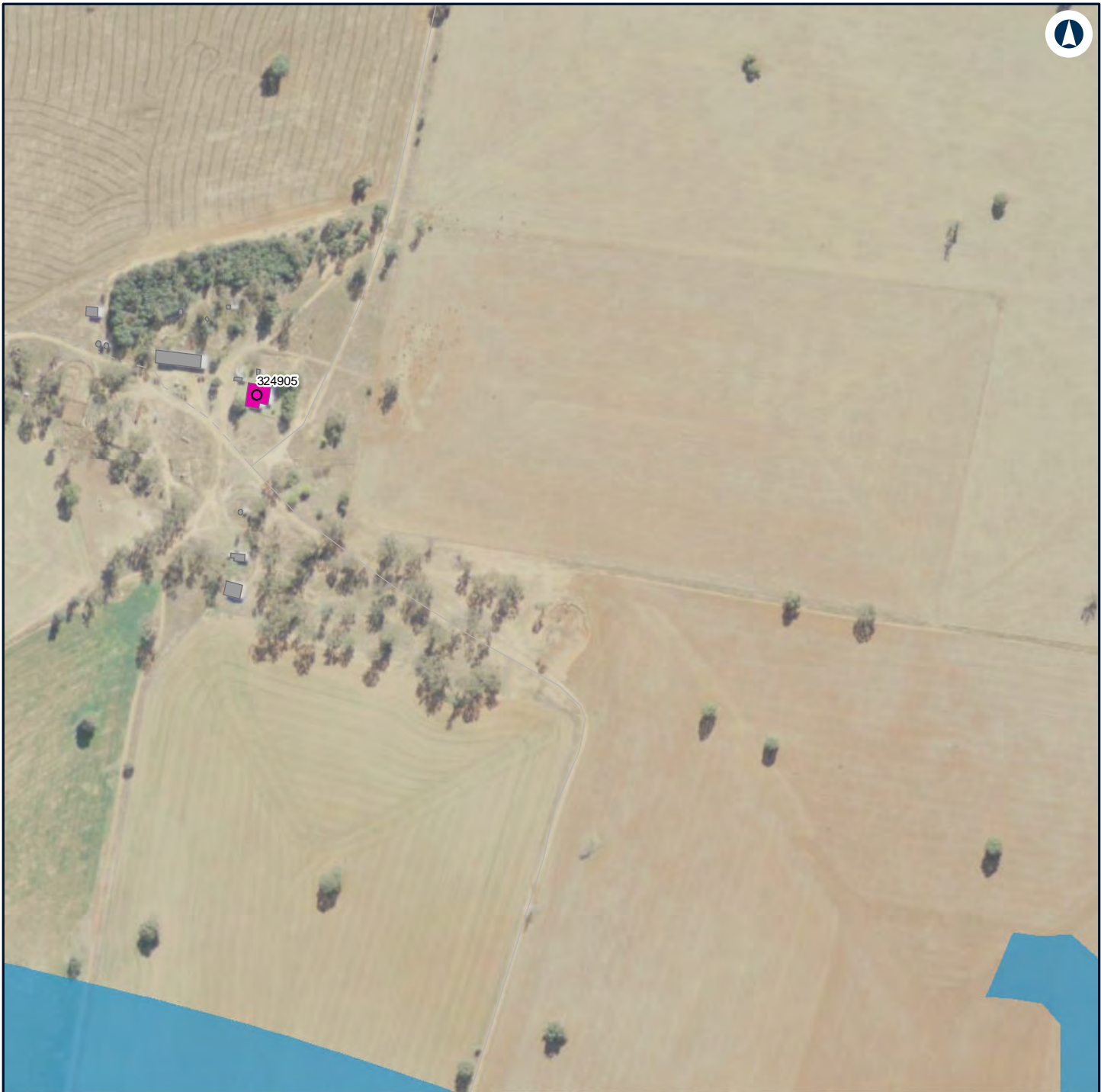
Scale: 1:5,000

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

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**LEGEND**

**Structure type**

- Residential
- Other
- Residential

**Noise level (dBA L**

**Aeq 15 minute)**

30 - 35



00.10.2

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 213 of 304

0 0.1 0.2  
Km

Coordinate System: GDA 1994 MGA Zone 55

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## LEGEND

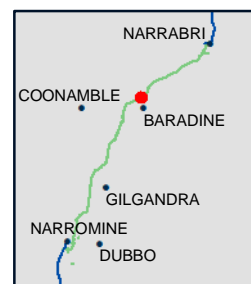
### Structure type

- Residential
- Other
- Residential

### Noise level (dBA L

Aeq 15 minute)

30 - 35



## NARROMINE TO NARRABRI

## Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 214 of 304

0 0.1 0.2  
Km

Coordinate System: GDA 1994 MGA Zone 55

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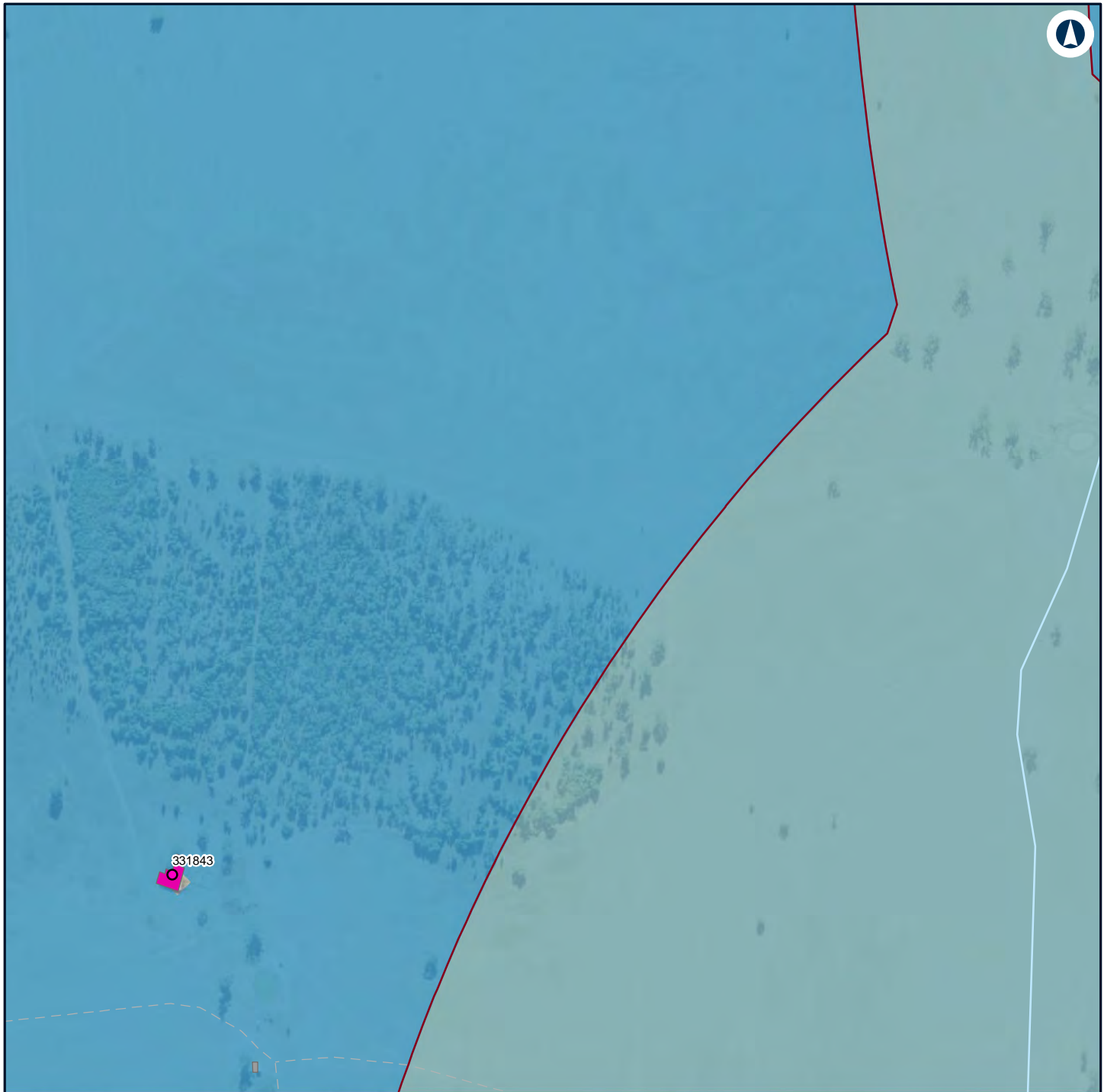
Author: GHD

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

Appendix G - Page 215 of 304

0 0.1 0.2  
Km

Coordinate System: GDA 1994 MGA Zone 55

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Author: GHD

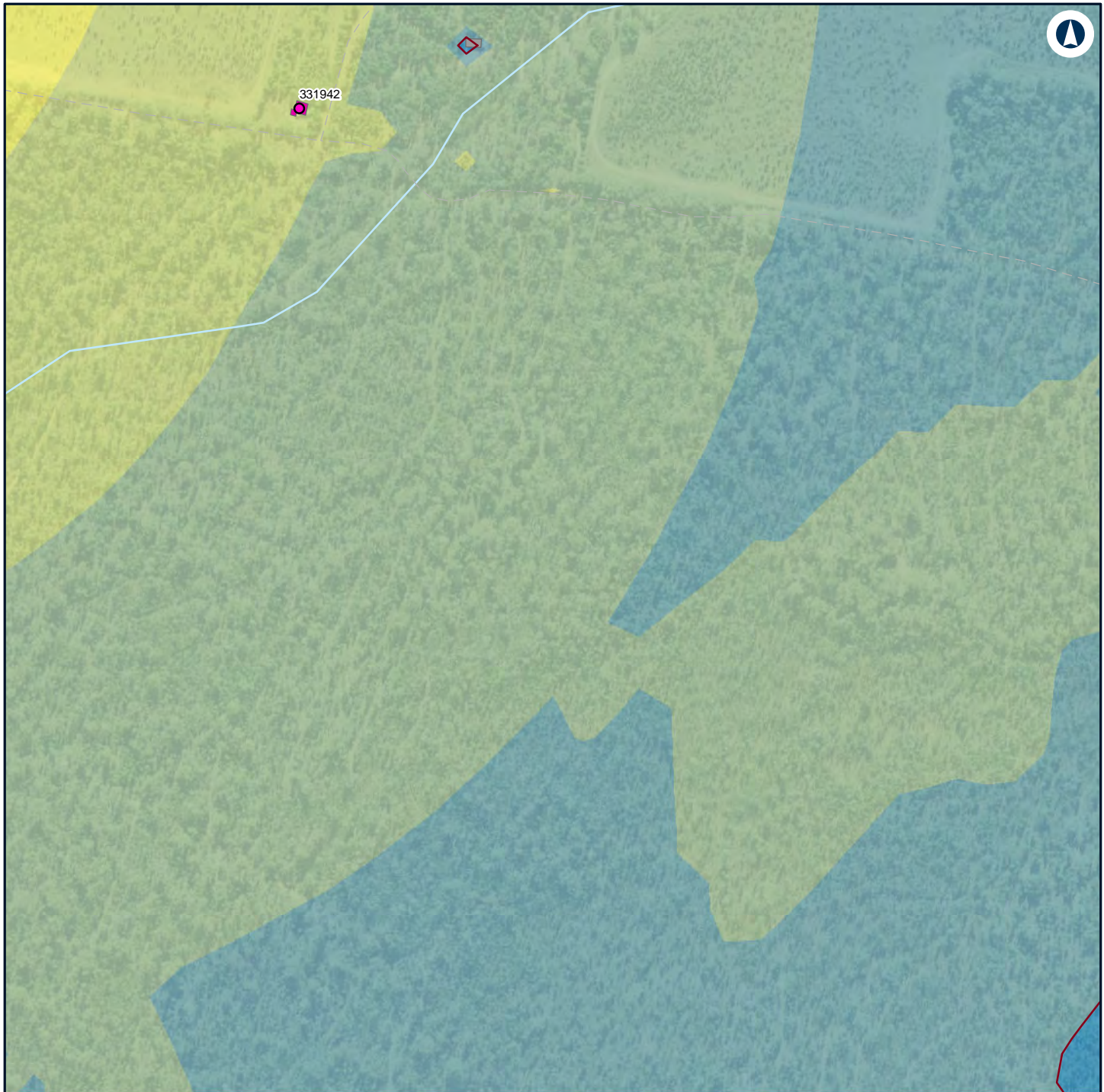
Scale: 1:5,000

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

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#### LEGEND

<b>Structure type</b>		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

Appendix G - Page 216 of 304



Coordinate System: GDA 1994 MGA Zone 55

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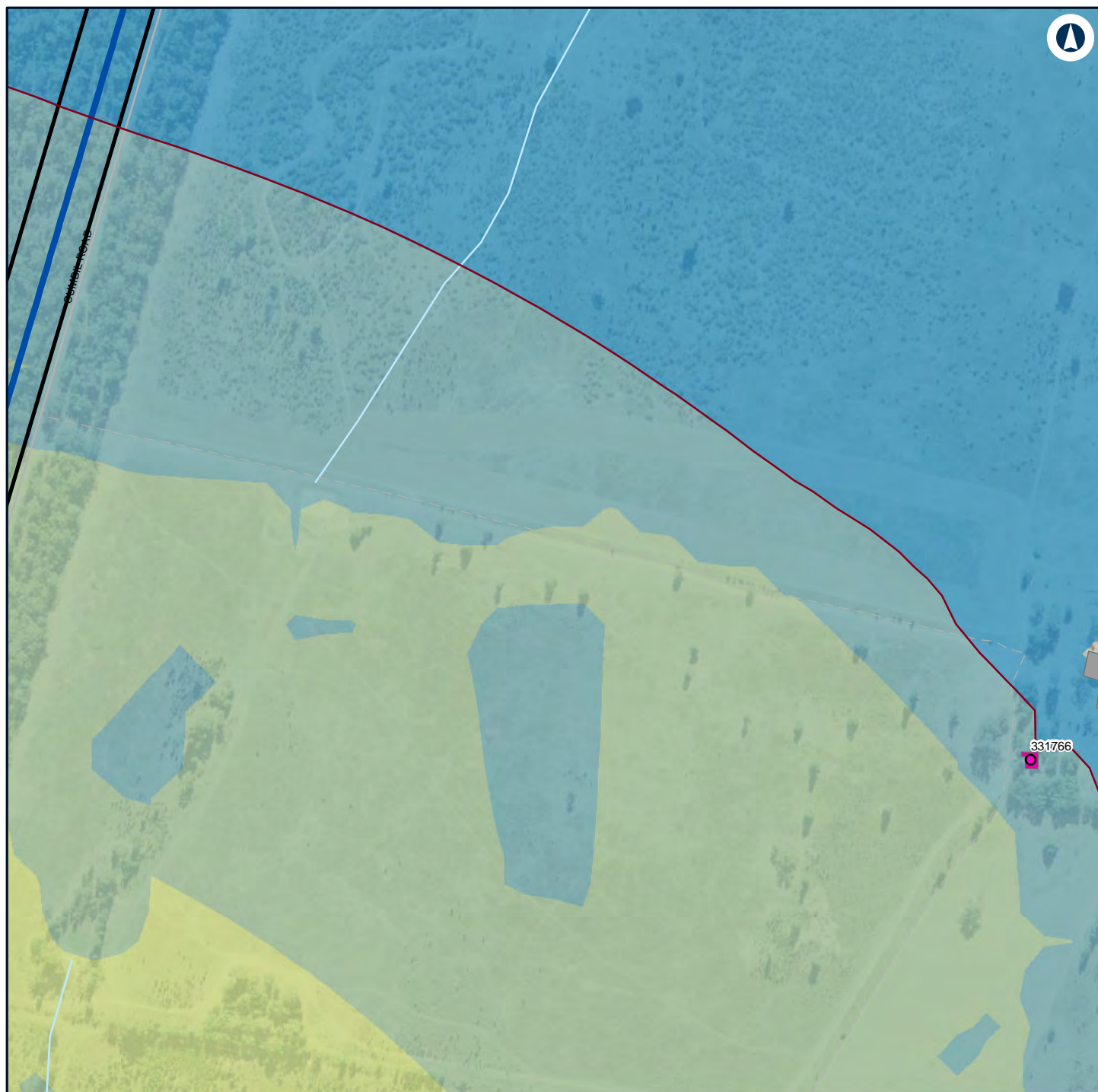
Author: GHD

Scale: 1:5,000

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#### LEGEND

Alignment

Construction footprint

#### Structure type

Residential

Other

Residential

#### Noise level (dBA L

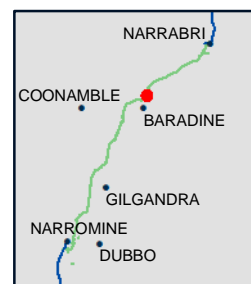
Aeq 15 minute)

30 - 35

35 - 40

40 - 45

45 - 50



#### NARROMINE TO NARRABRI

#### Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 217 of 304

0 0.1 0.2 Km

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## LEGEND

**Structure type** 35 - 40

Residential

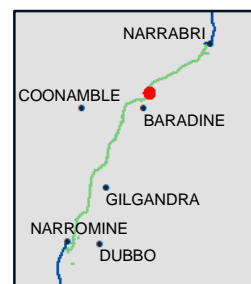
Other

Residential

**Noise level (dBA L**

Aeq 15 minute)

30 - 35



## NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 218 of 304

0 0.1 0.2  
Km

Coordinate System: GDA 1994 MGA Zone 55

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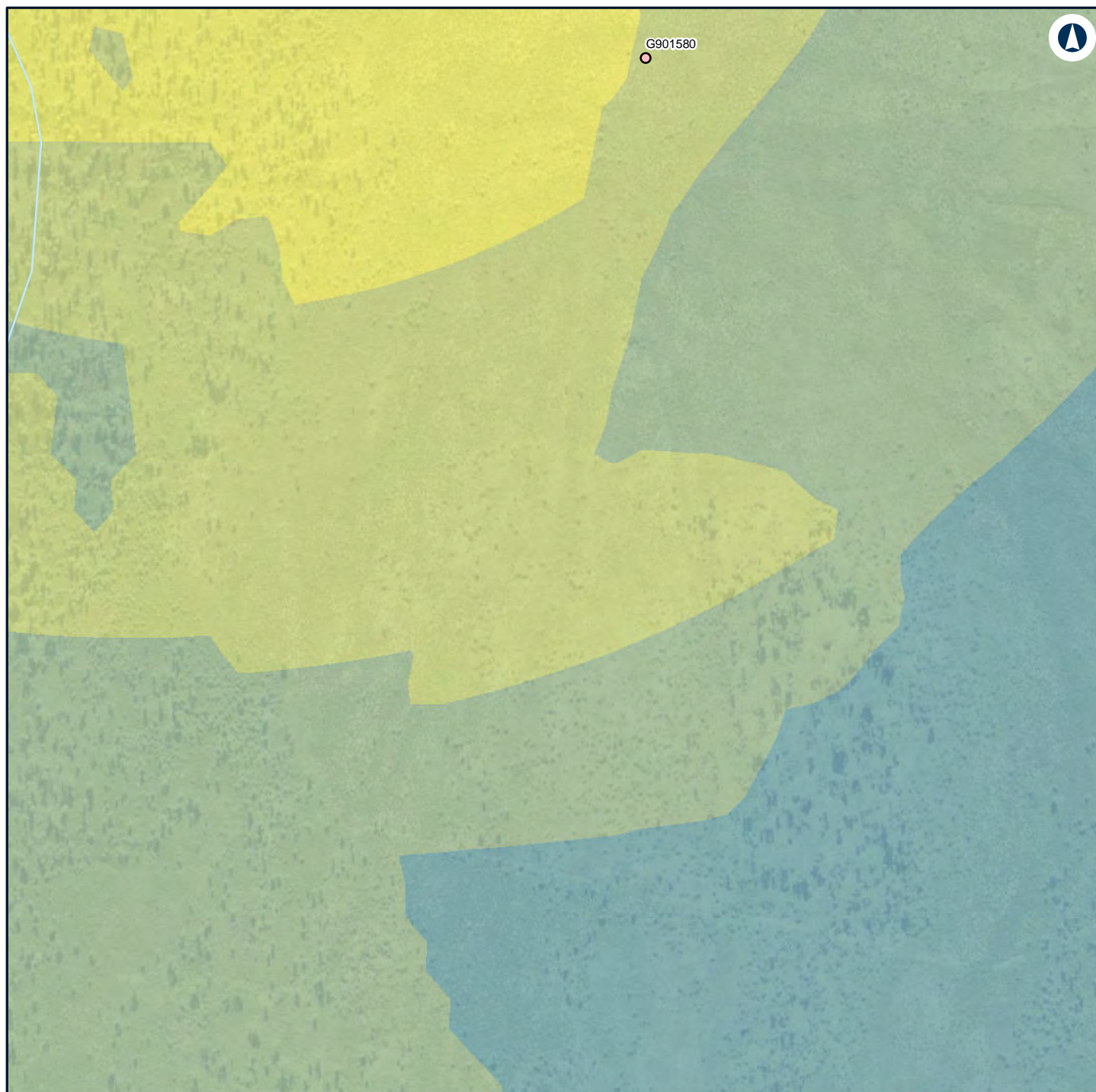
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## LEGEND

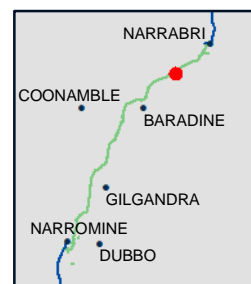
**Structure type**

- 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

Appendix G - Page 219 of 304

0 0.1 0.2 Km

Coordinate System: GDA 1994 MGA Zone 55

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## LEGEND

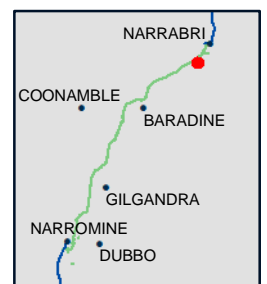
### Structure type

- Residential
- Other
- Residential

### Noise level (dBA L

Aeq 15 minute)

30 - 35



## NARROMINE TO NARRABRI

## Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 220 of 304

0 0.1 0.2  
Km

Coordinate System: GDA 1994 MGA Zone 55

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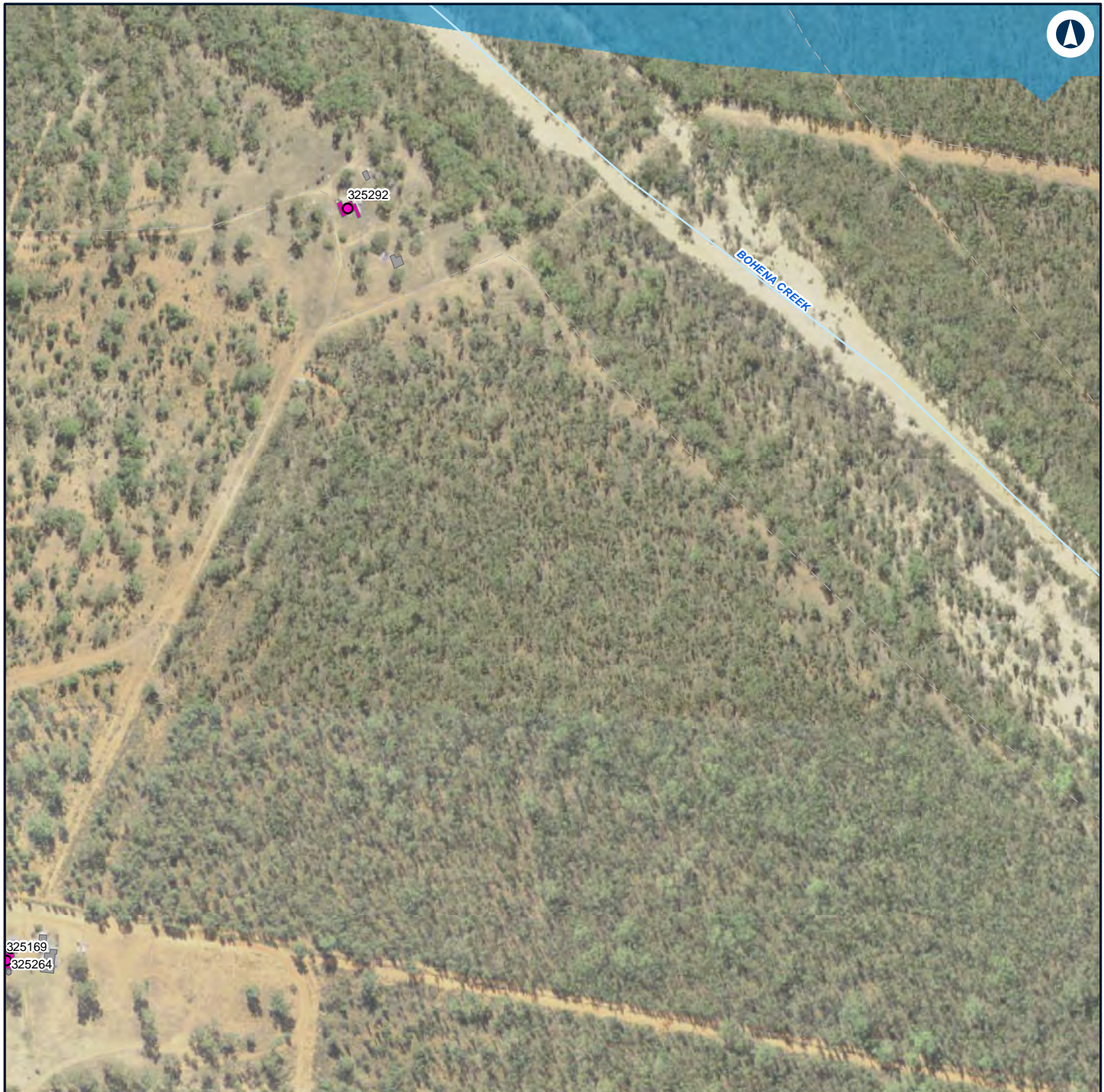
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**LEGEND**

**Structure type**

- Residential
- Other
- Residential

**Noise level (dBA L**

Aeq 15 minute)

- 30 - 35



0      0.1      0.2  
Km

Coordinate System: GDA 1994 MGA Zone 55

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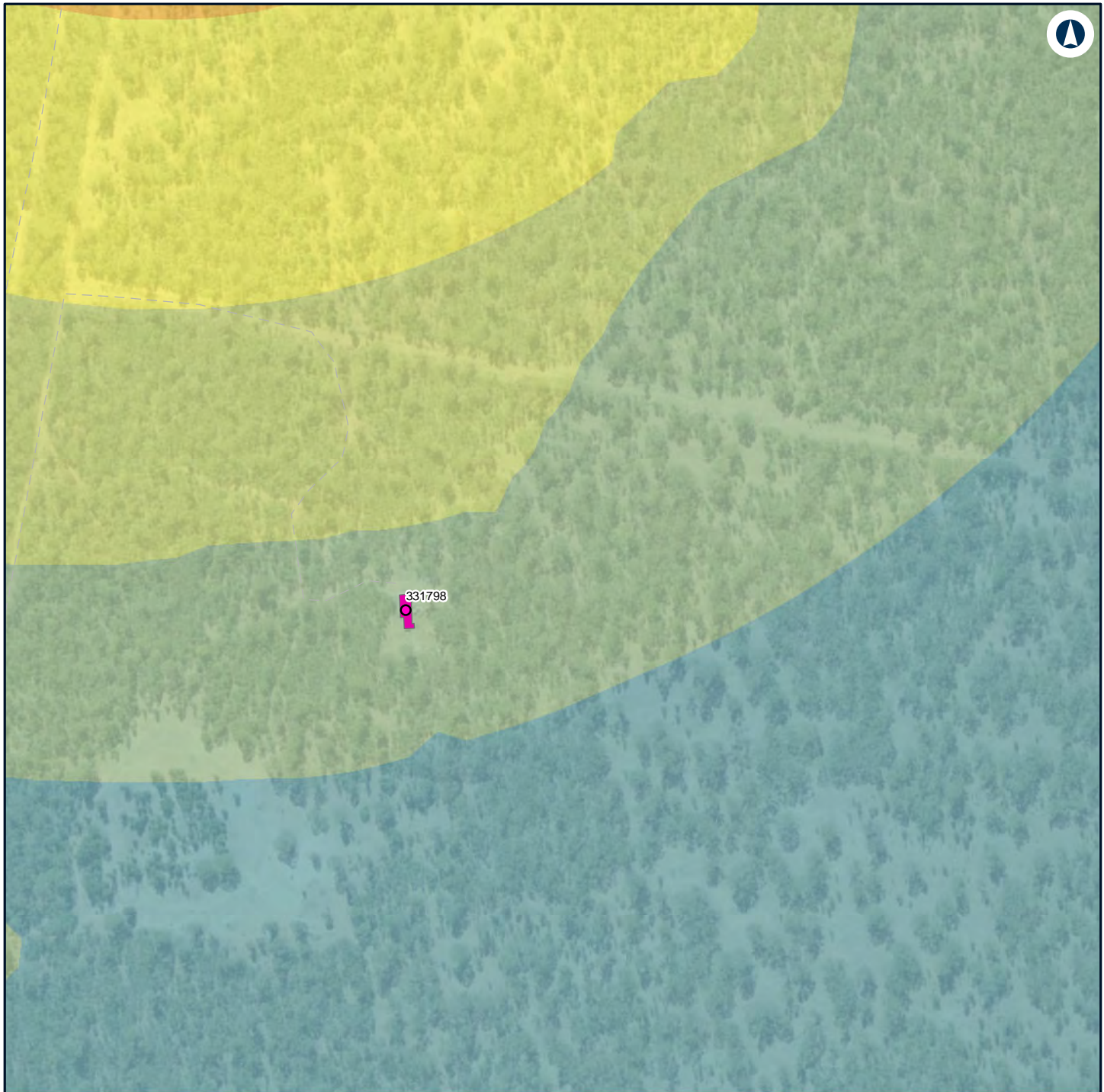
INLAND RAIL

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#### LEGEND

<b>Structure type</b>		45 - 50
● Residential		50 - 55
■ Residential		55 - 60

#### Noise level (dBA L

Aeq 15 minute)

	35 - 40
	40 - 45



#### 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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Date: 16/07/2020

Paper: A4

Author: GHD

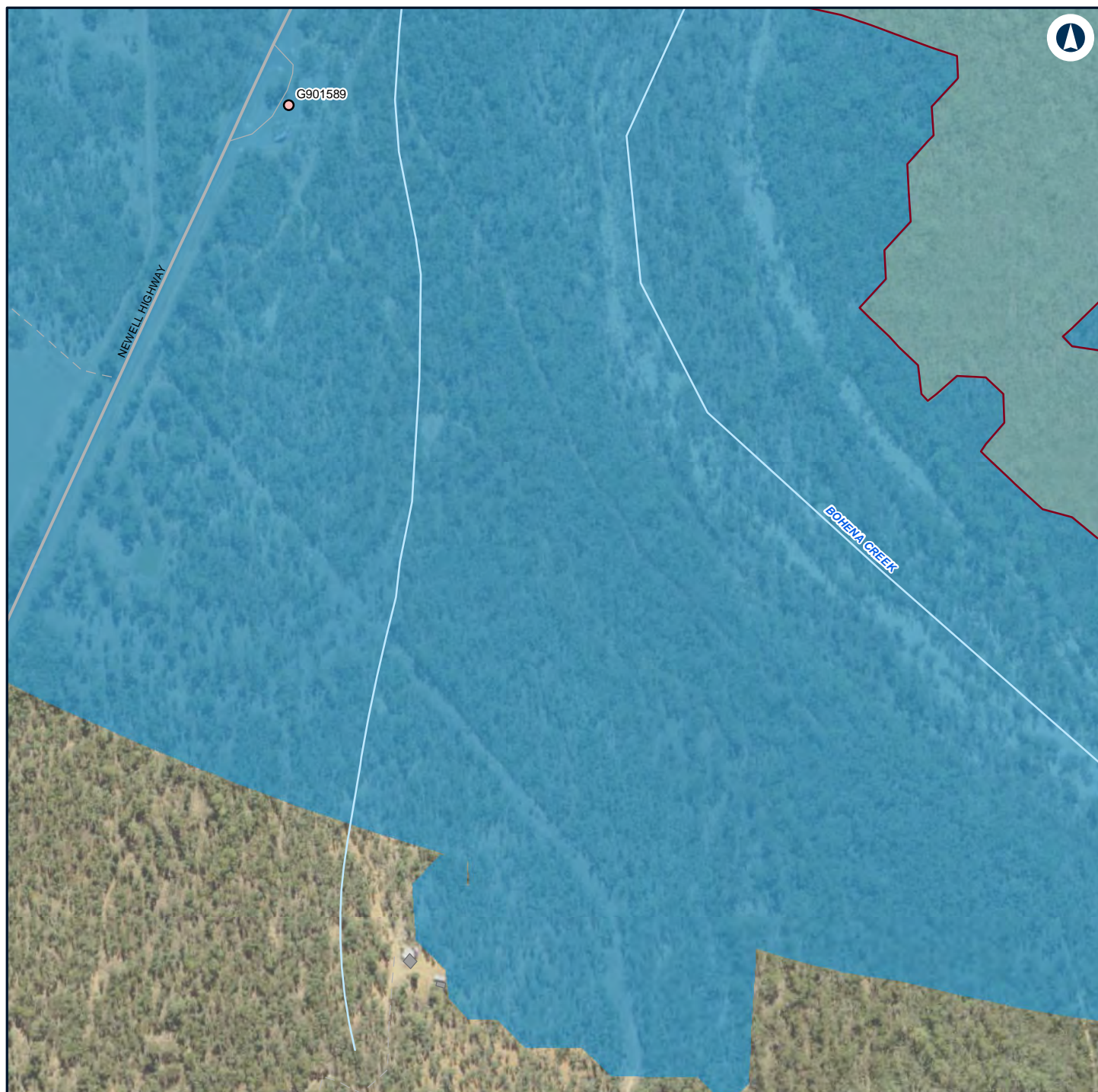
Scale: 1:5,000

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

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## LEGEND

### Structure type

- Passive recreation
- Other

### 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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0 0.1 0.2  
Km

Coordinate System: GDA 1994 MGA Zone 55

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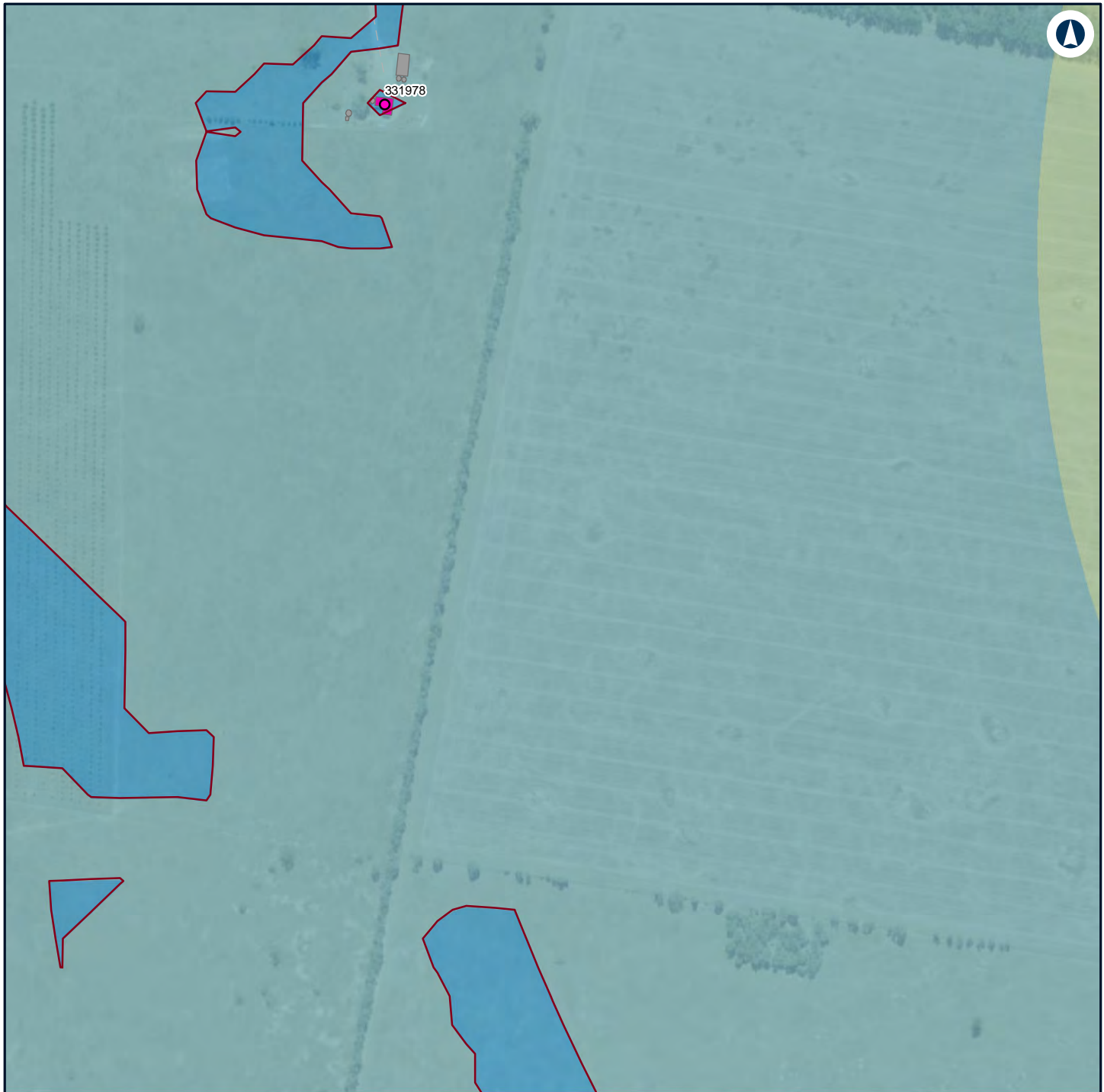
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

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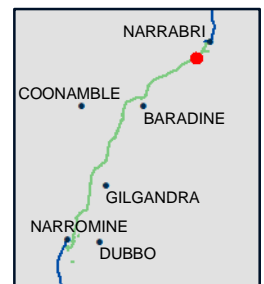
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#### LEGEND

- 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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0 0.1 0.2  
Km

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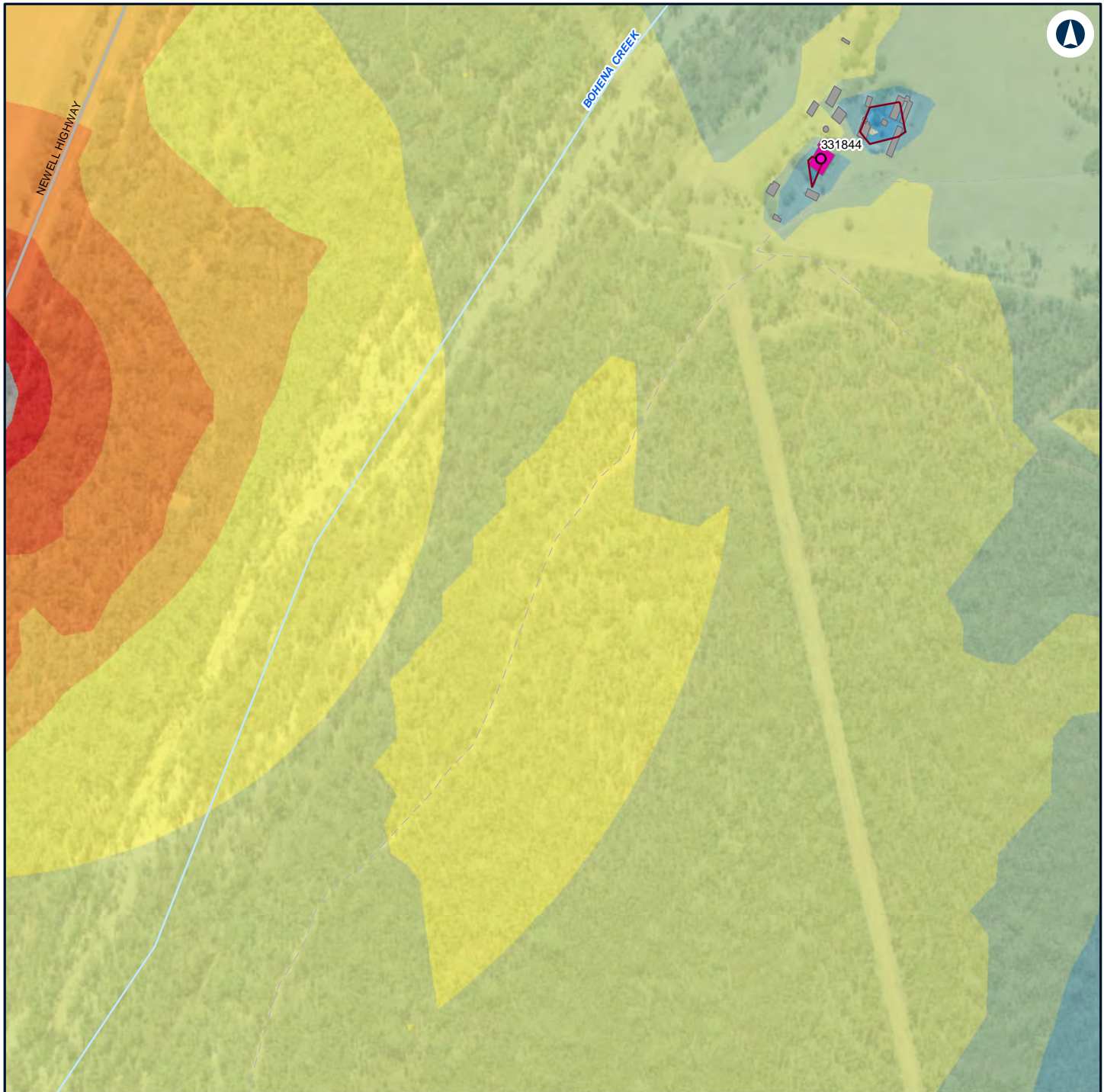
Author: GHD

Scale: 1:5,000

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

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#### LEGEND

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



#### NARROMINE TO NARRABRI

#### Construction noise contours, Scenario ROAD03 - Road Earthworks

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0 0.1 0.2  
Km

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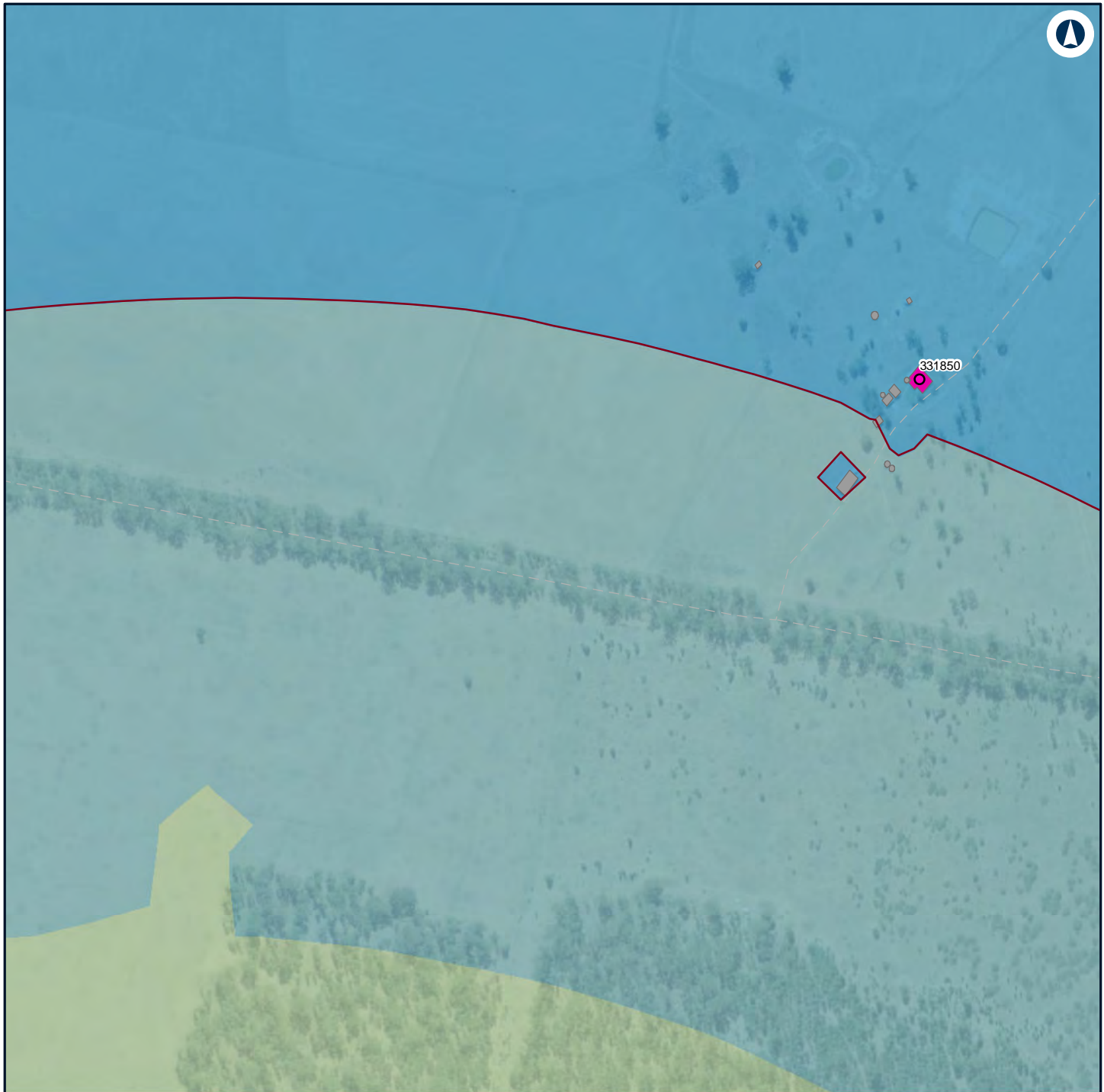
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

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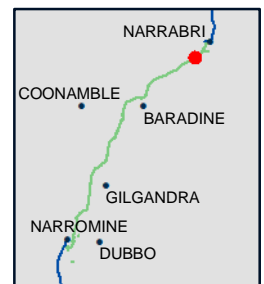
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#### LEGEND

- Structure type**
- Residential
  - Residential
  - Other
  - 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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Coordinate System: GDA 1994 MGA Zone 55

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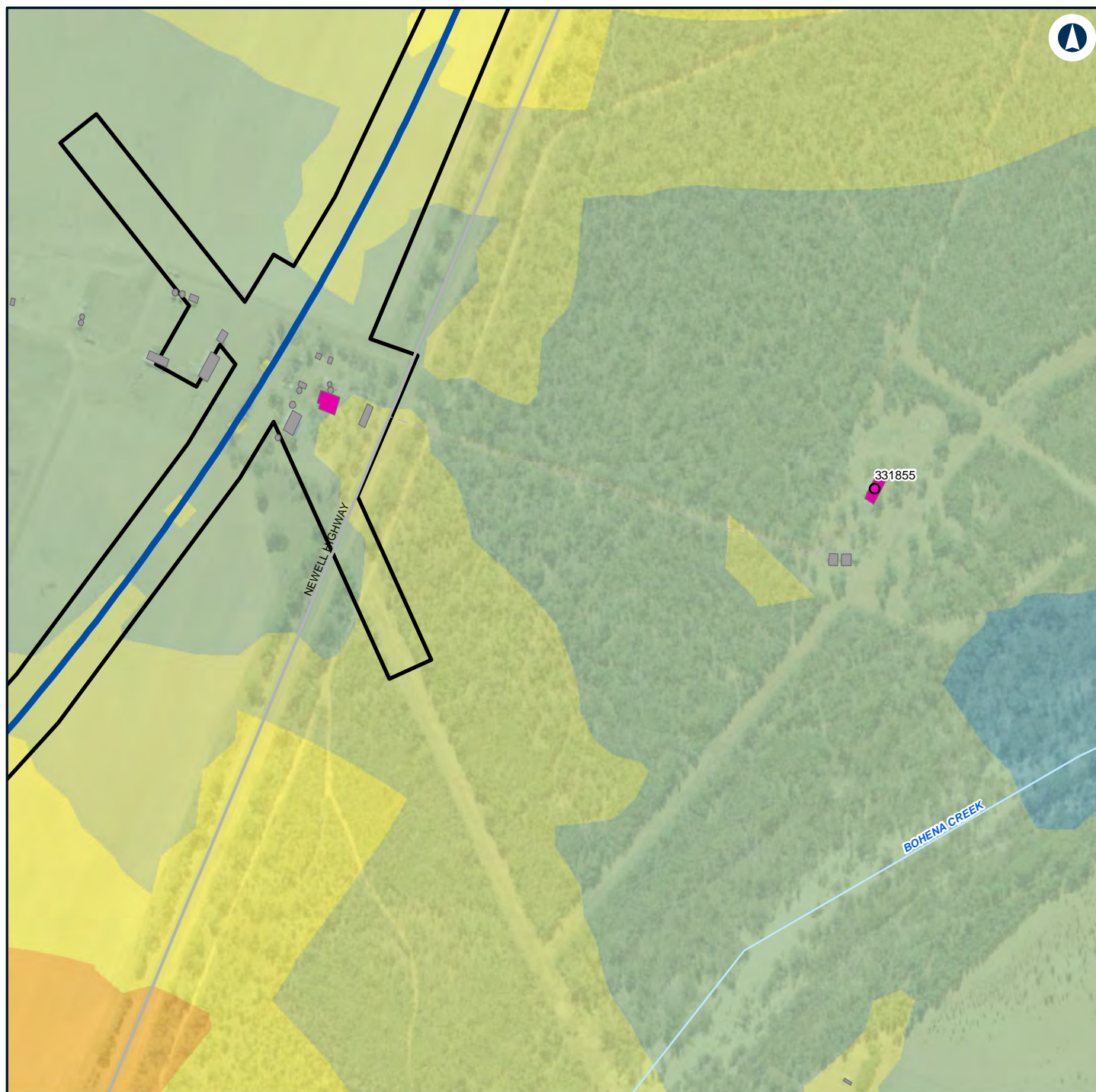
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Scale: 1:5,000

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

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## LEGEND

Alignment

Construction footprint

### Structure type

Residential

Other

Residential

### Noise level (dBA L

Aeq 15 minute)

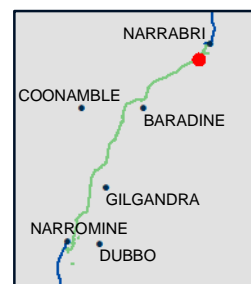
35 - 40

40 - 45

45 - 50

50 - 55

55 - 60



## NARROMINE TO NARRABRI

## Construction noise contours, Scenario ROAD03 - Road Earthworks

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0 0.1 0.2 Km

Coordinate System: GDA 1994 MGA Zone 55

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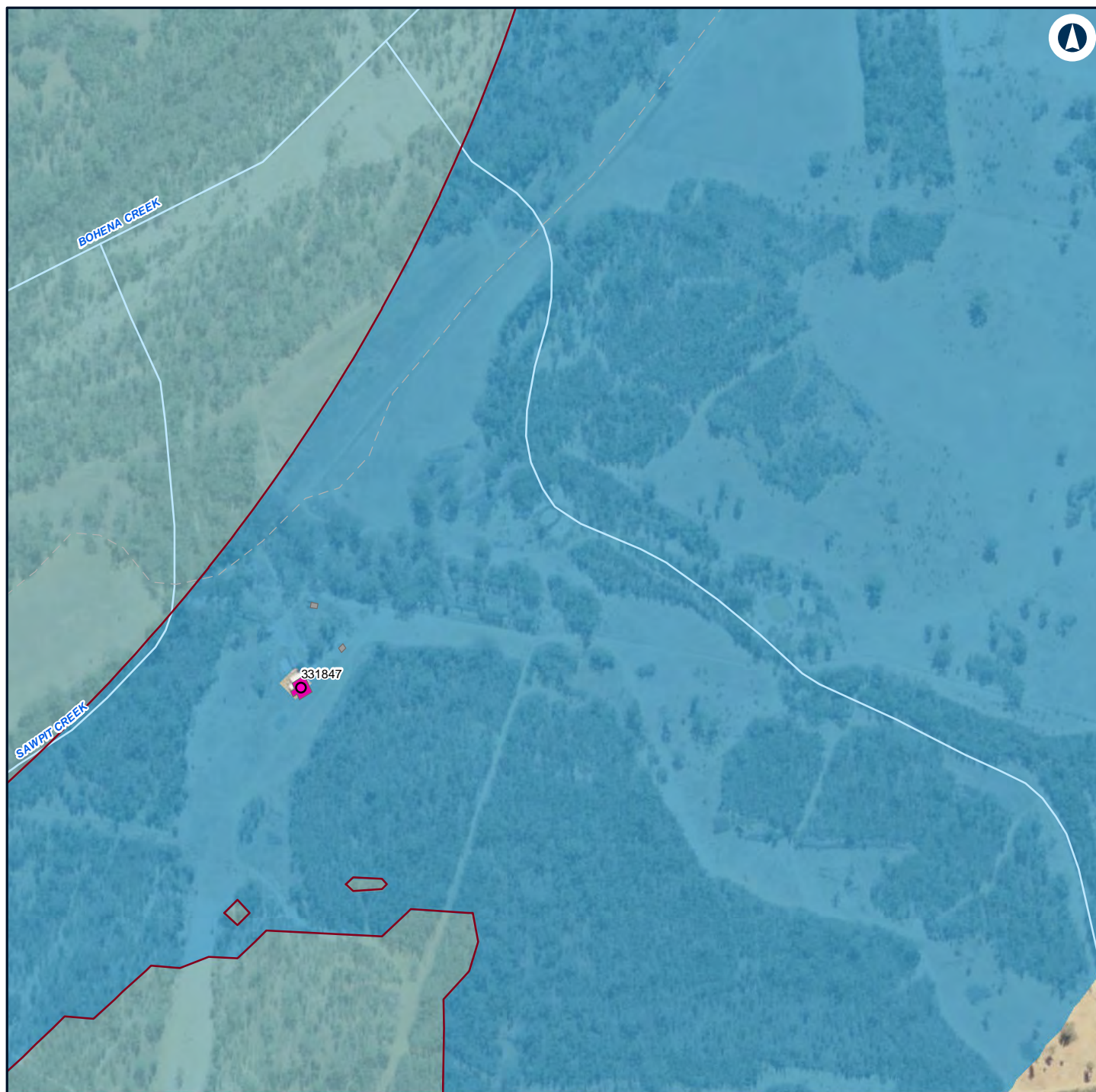
Scale: 1:5,000

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

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## LEGEND

**Structure type** 35 - 40

Residential

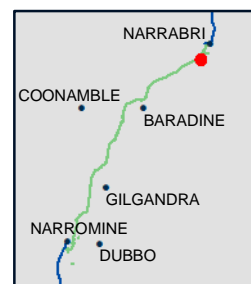
Other

Residential

**Noise level (dBA L**

Aeq 15 minute)

30 - 35



## NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 228 of 304

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**

Appendix G - Page 229 of 304

0 0.1 0.2  
Km

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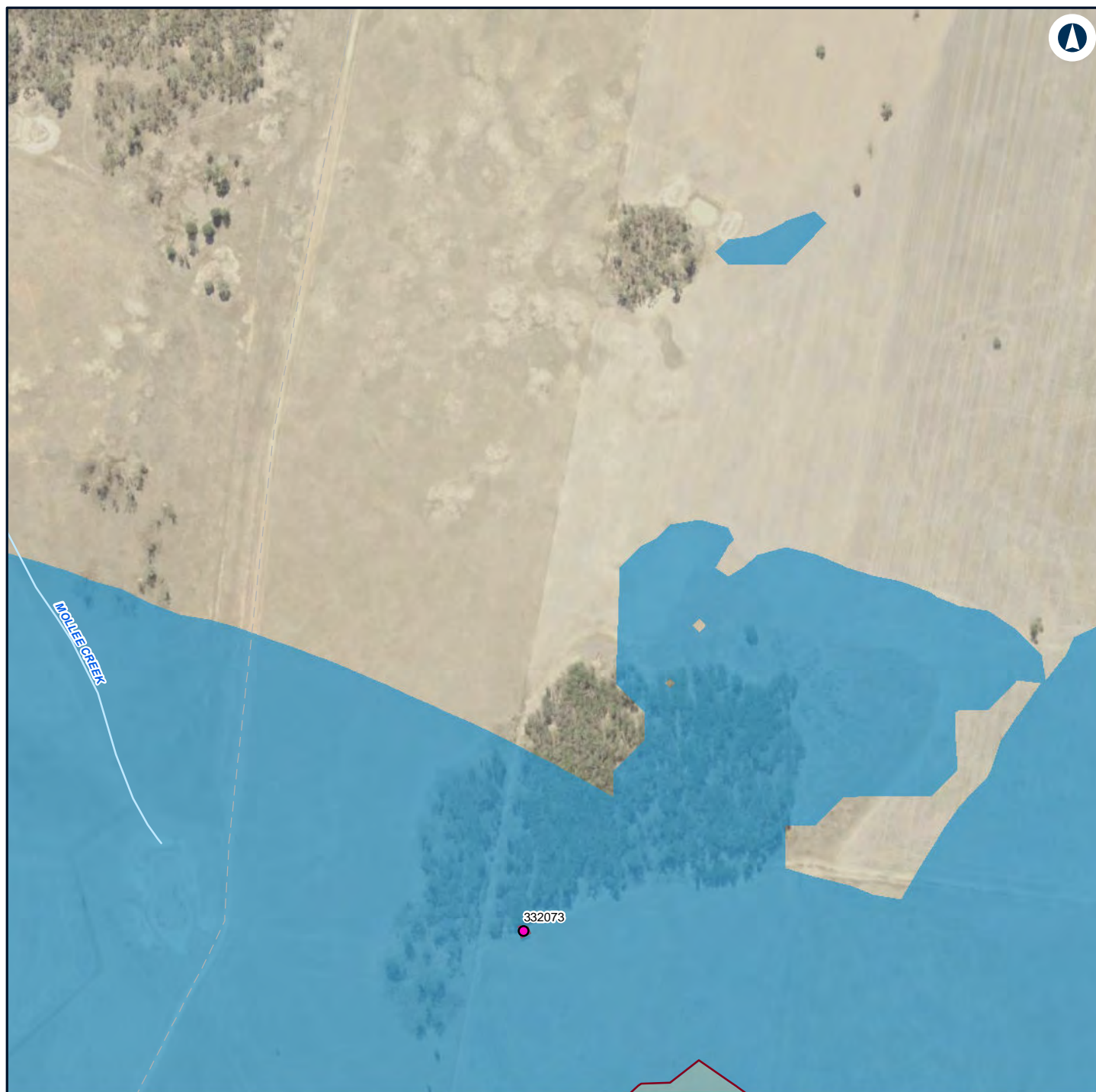
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## LEGEND

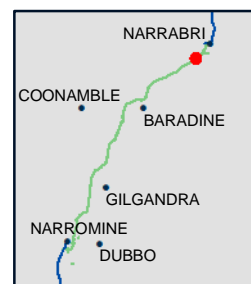
### Structure type

- 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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0 0.1 0.2  
Km

Coordinate System: GDA 1994 MGA Zone 55

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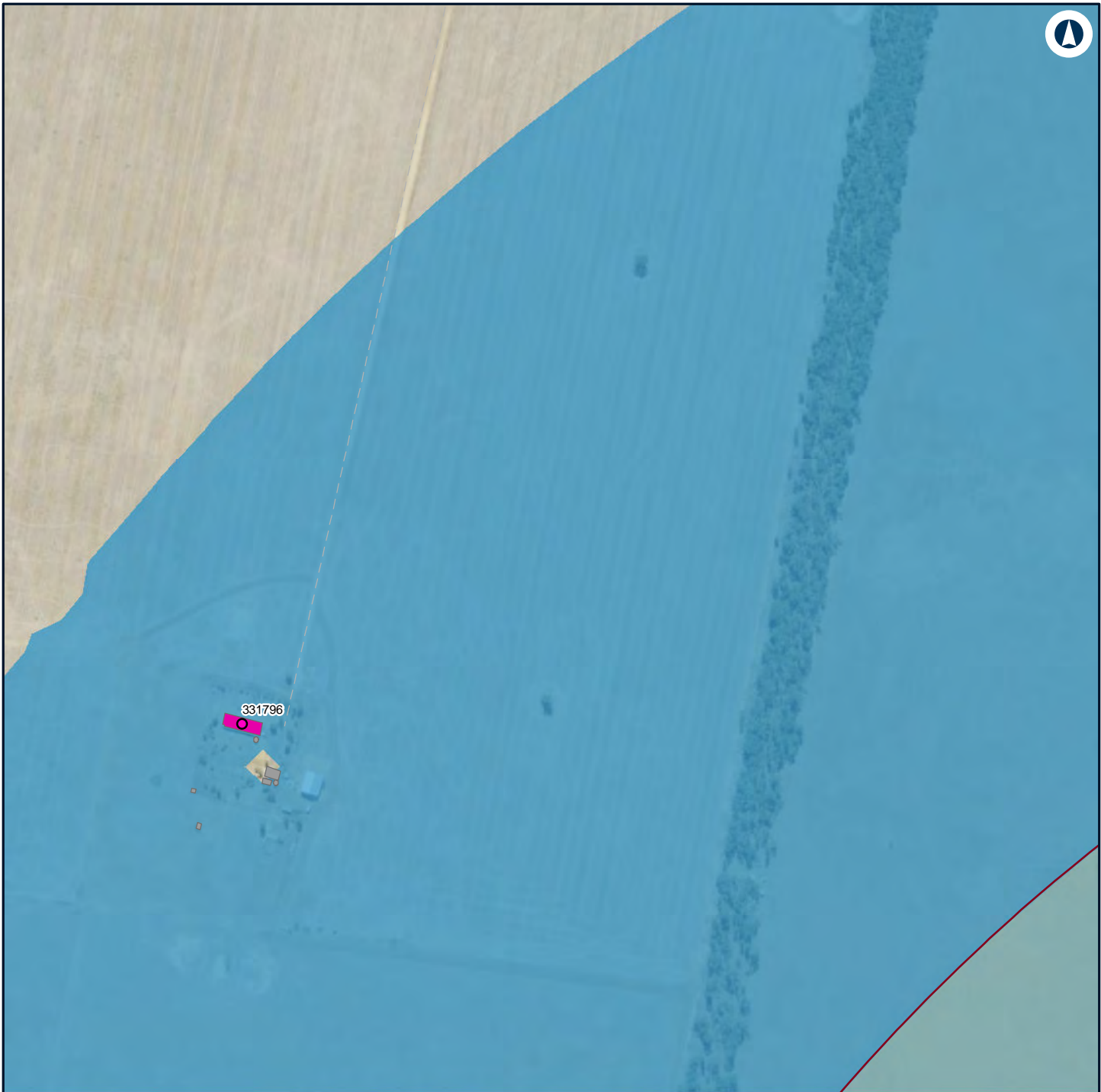
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Scale: 1:5,000

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

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# LEGEND

## Structure type

- 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 231 of 304

0 0.1 0.2 Km

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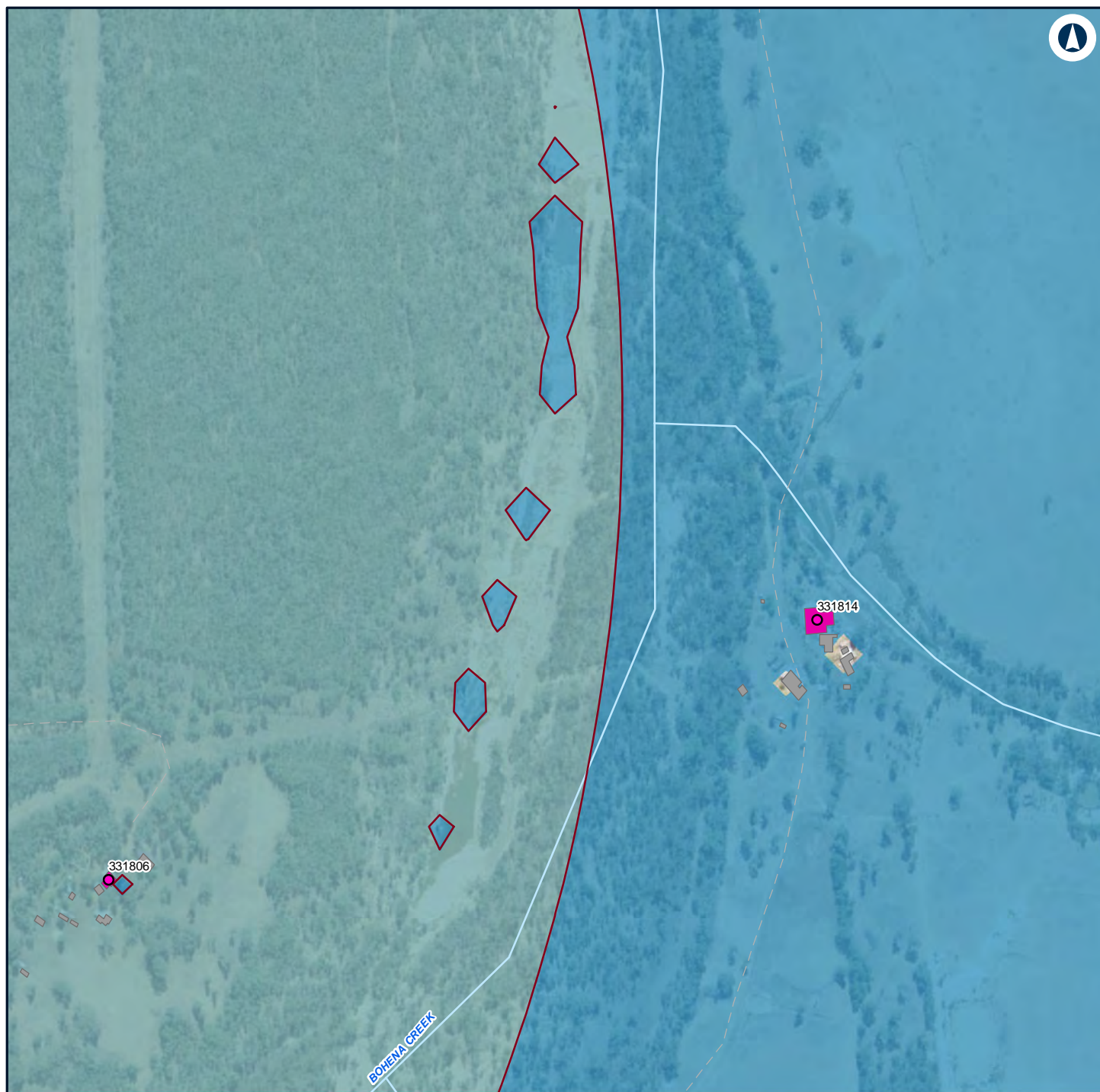
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

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## LEGEND

**Structure type** 35 - 40

Residential

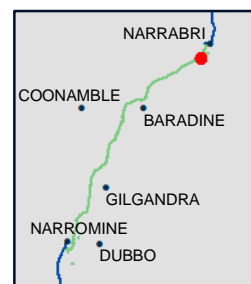
Other

Residential

**Noise level (dBA L**

Aeq 15 minute)

30 - 35



## NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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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

Appendix G - Page 233 of 304

0 0.1 0.2  
Km

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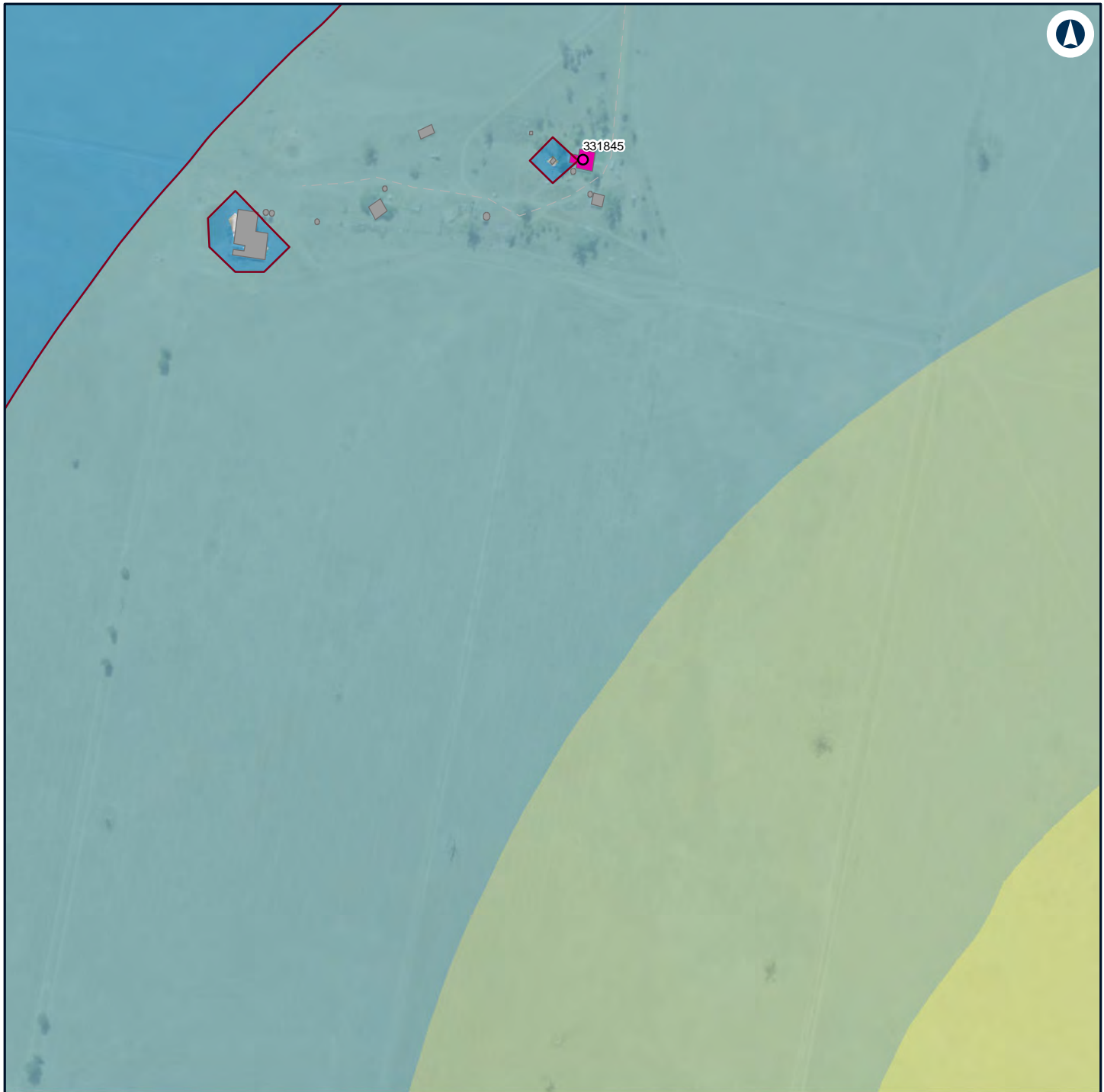
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

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#### LEGEND

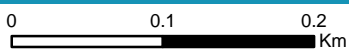
<b>Structure type</b>		35 - 40
Residential		40 - 45
Other		45 - 50
Residential		
<b>Noise level (dBA L Aeq 15 minute)</b>		
		30 - 35



#### 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

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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0 0.1 0.2  
Km

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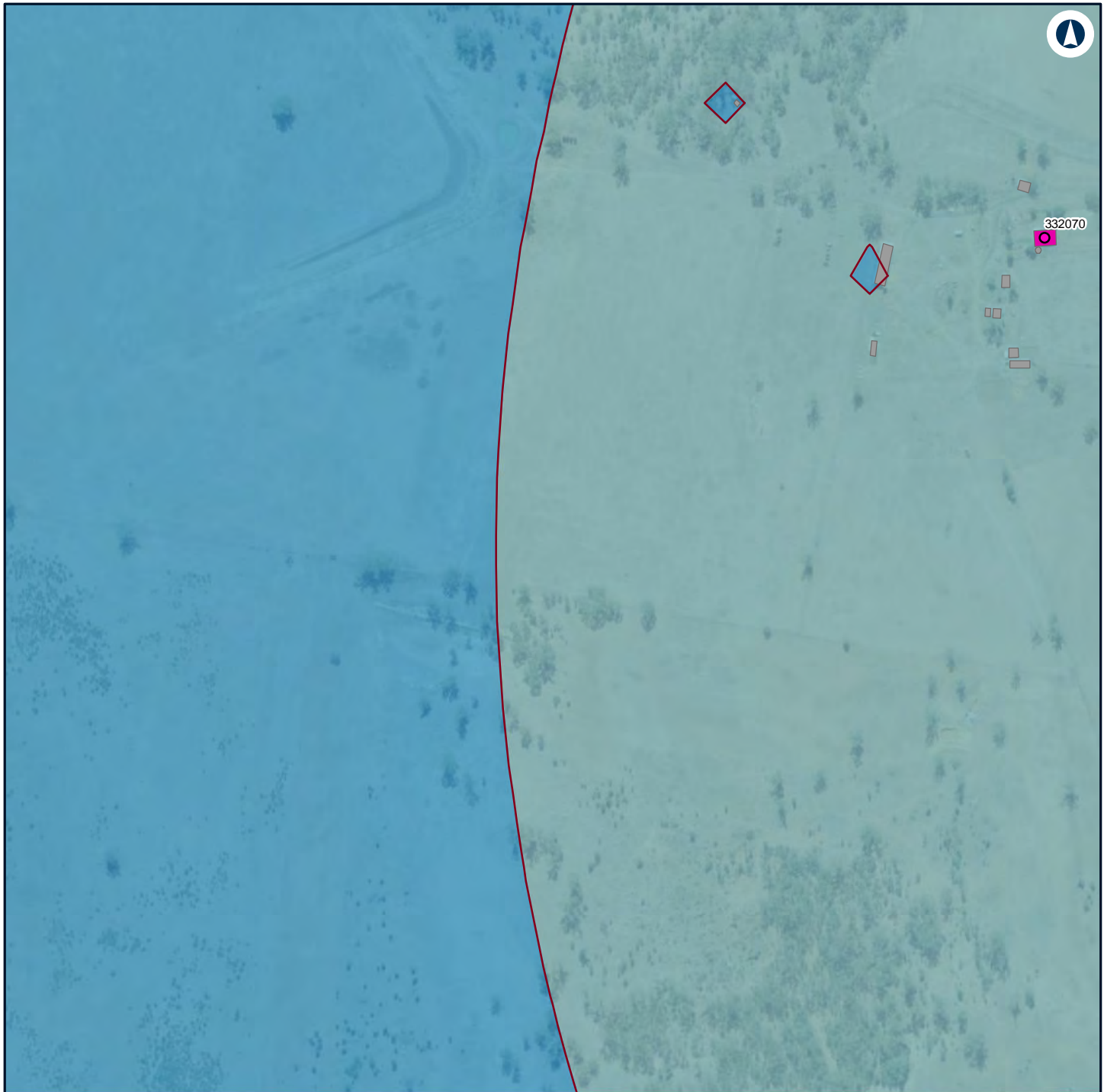
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

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#### LEGEND

**Structure type** 35 - 40

Residential

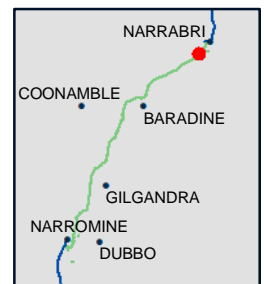
Other

Residential

**Noise level (dBA L**

Aeq 15 minute)

30 - 35



#### NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 236 of 304

0 0.1 0.2  
Km

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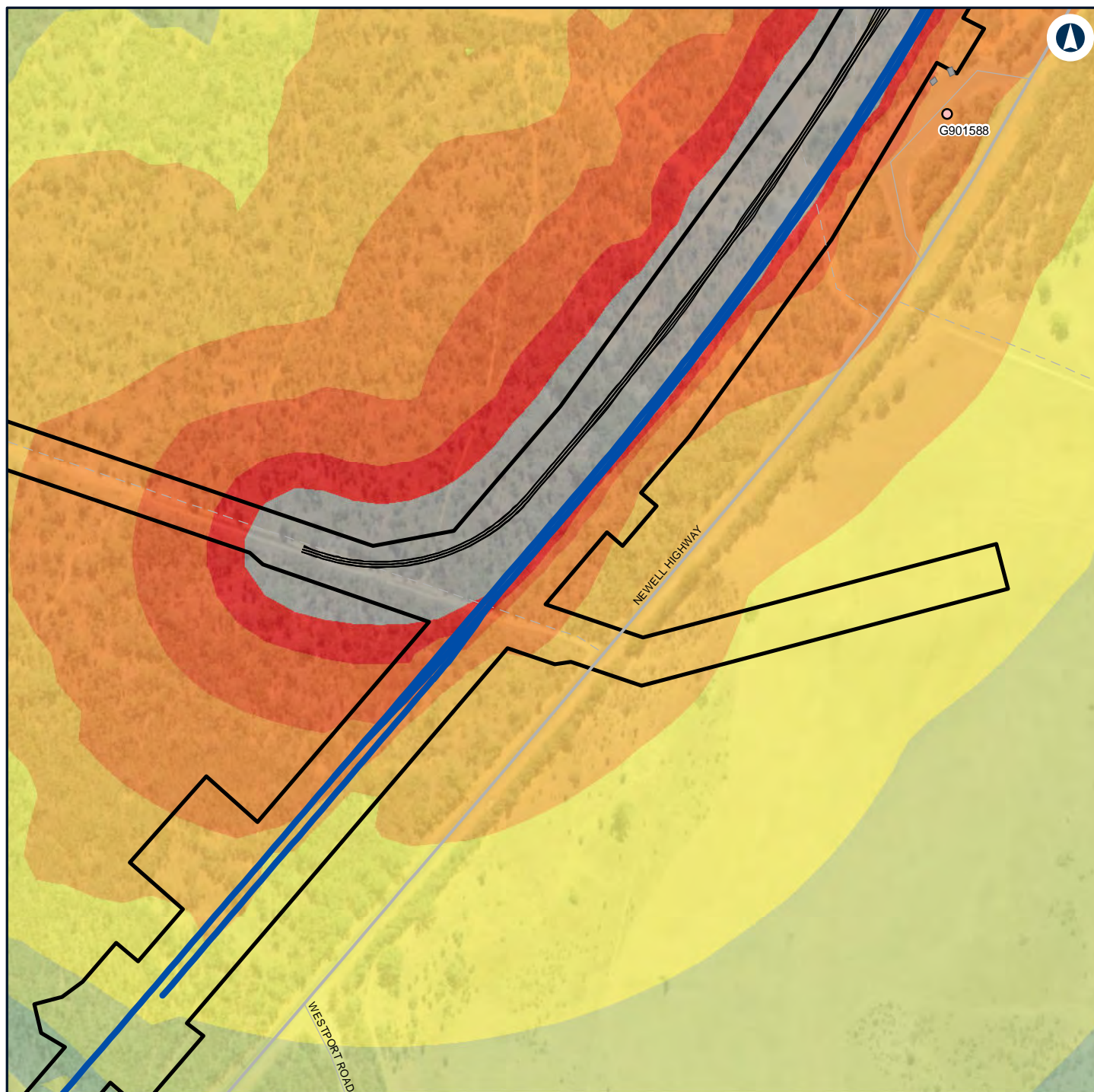
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#### LEGEND

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



#### NARROMINE TO NARRABRI

#### Construction noise contours, Scenario ROAD03 - Road Earthworks

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0 0.1 0.2  
Km

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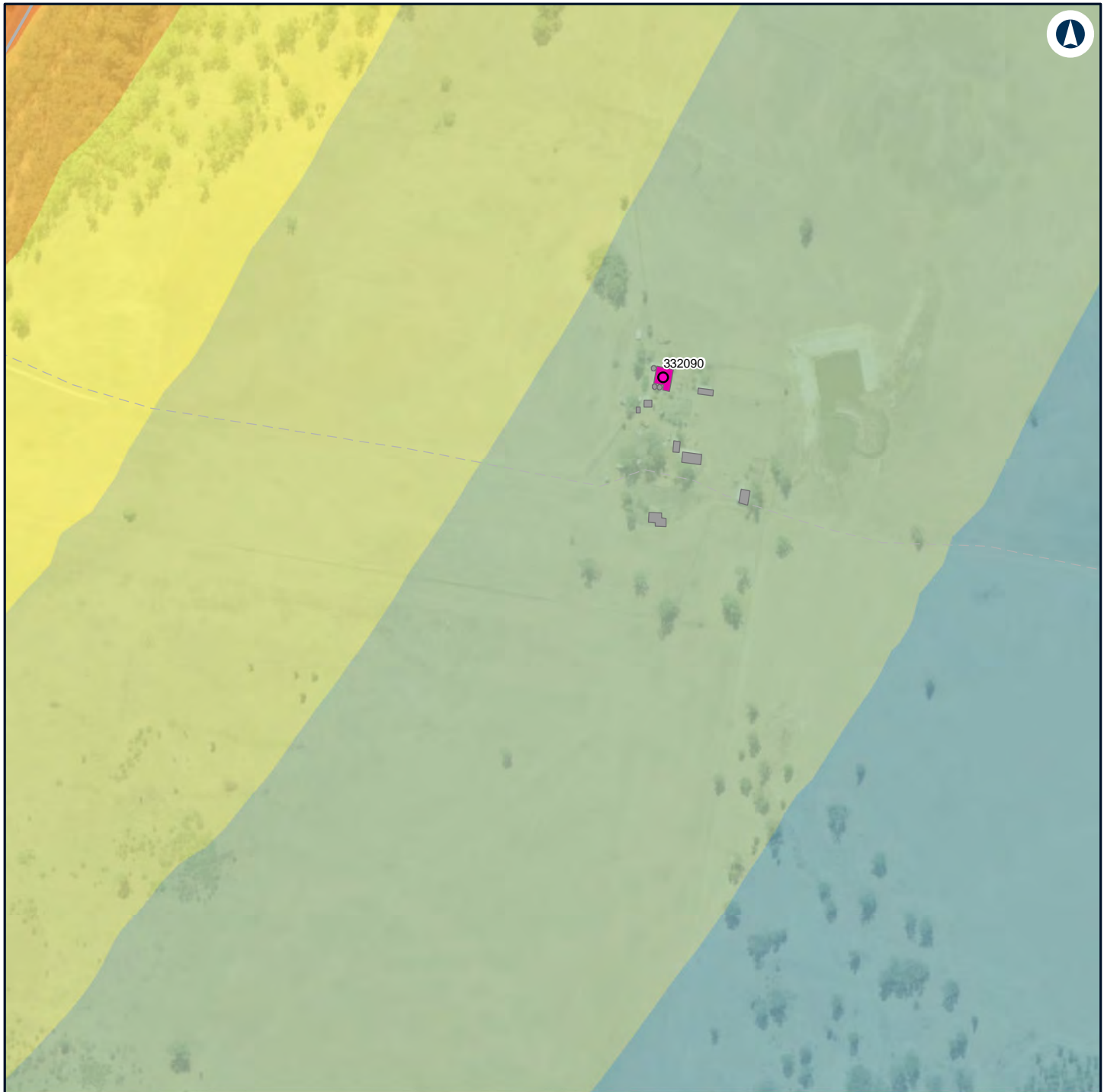
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

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#### LEGEND

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



#### NARROMINE TO NARRABRI

#### Construction noise contours, Scenario ROAD03 - Road Earthworks

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0 0.1 0.2  
Km

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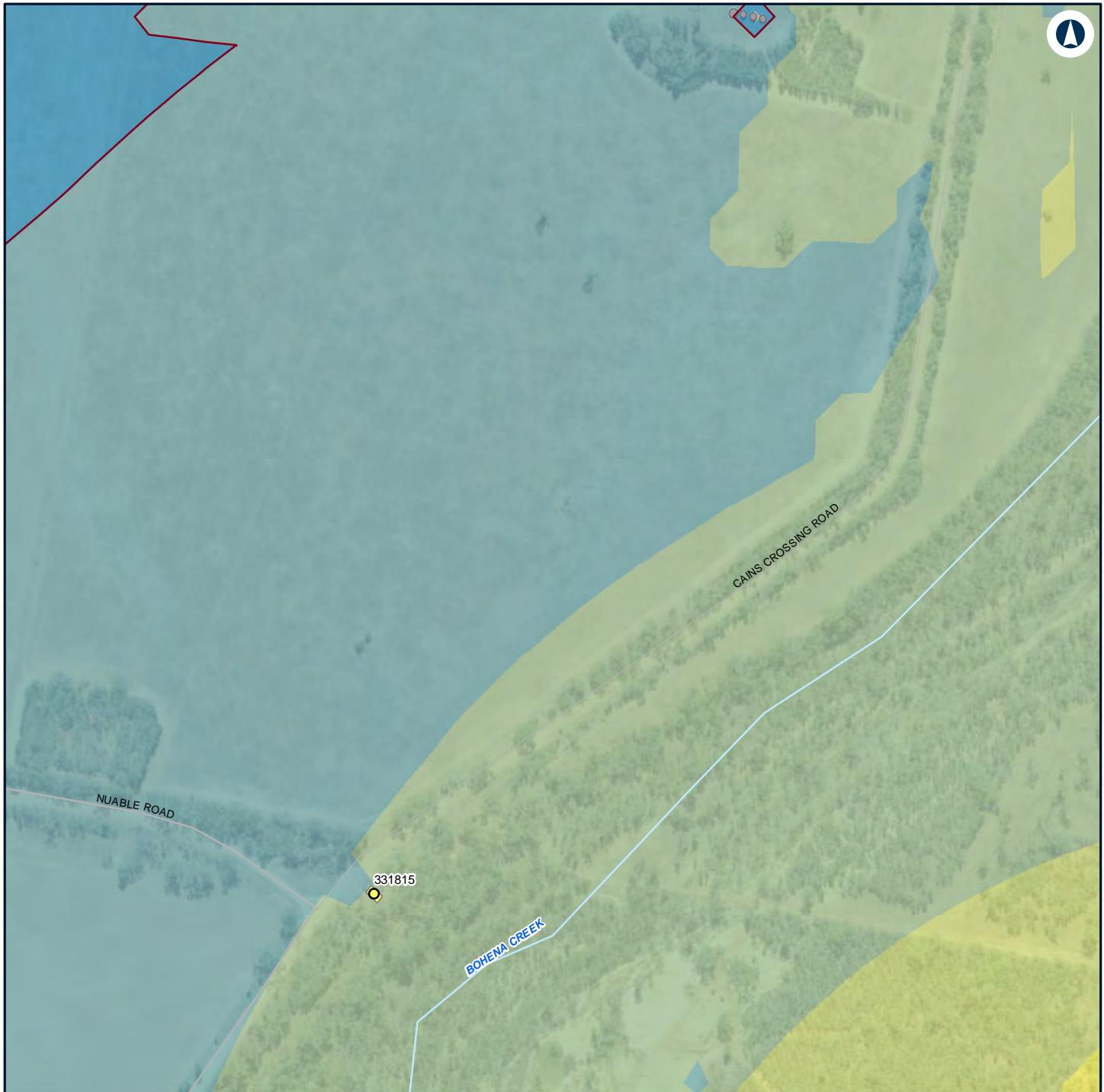
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

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#### LEGEND

<b>Structure type</b>		35 - 40
Community	Yellow circle	40 - 45
Community	Yellow square	45 - 50
Other	Grey square	50 - 55

#### Noise level (dBA L

Aeq 15 minute)

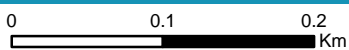
Blue square	30 - 35
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#### NARROMINE TO NARRABRI

#### Construction noise contours, Scenario ROAD03 - Road Earthworks

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Coordinate System: GDA 1994 MGA Zone 55

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Author: GHD

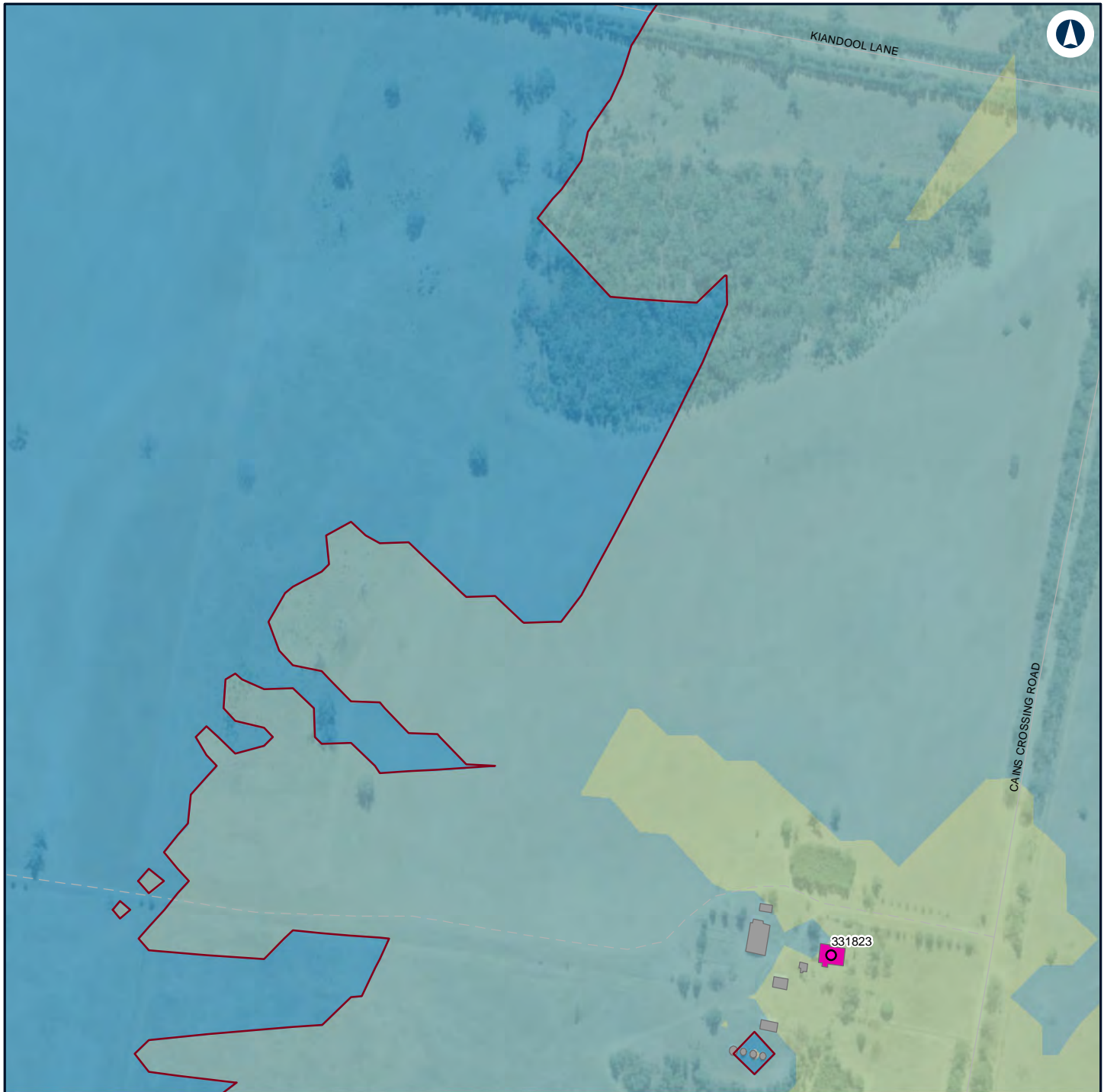
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

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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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0 0.1 0.2  
Km

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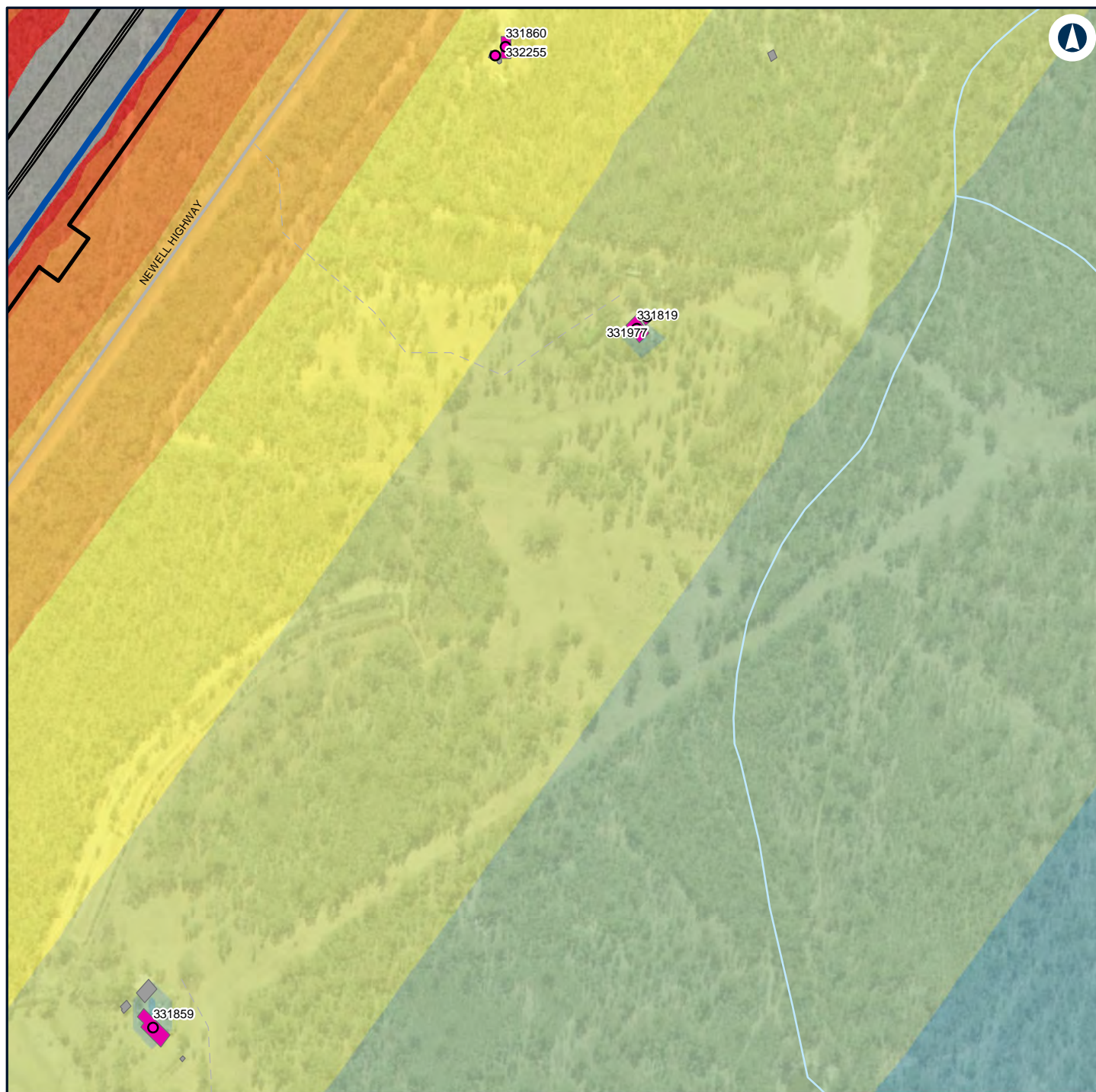
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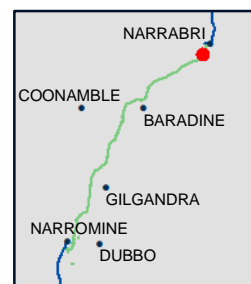
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#### LEGEND

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



#### NARROMINE TO NARRABRI

#### Construction noise contours, Scenario ROAD03 - Road Earthworks

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0 0.1 0.2  
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 16/07/2020

Paper: A4

Author: GHD

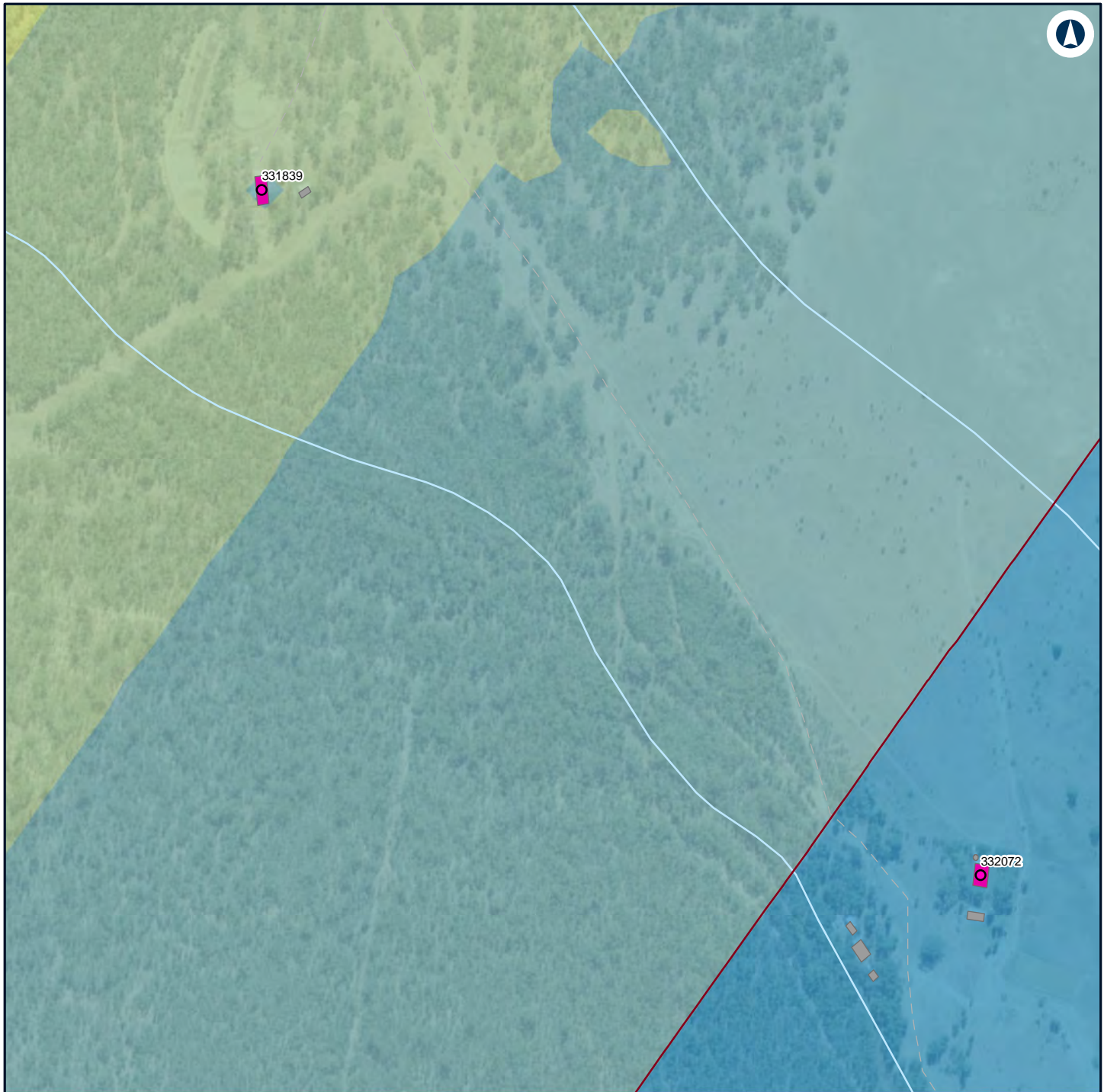
Scale: 1:5,000

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

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#### LEGEND

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



#### NARROMINE TO NARRABRI

#### Construction noise contours, Scenario ROAD03 - Road Earthworks

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0 0.1 0.2  
Km

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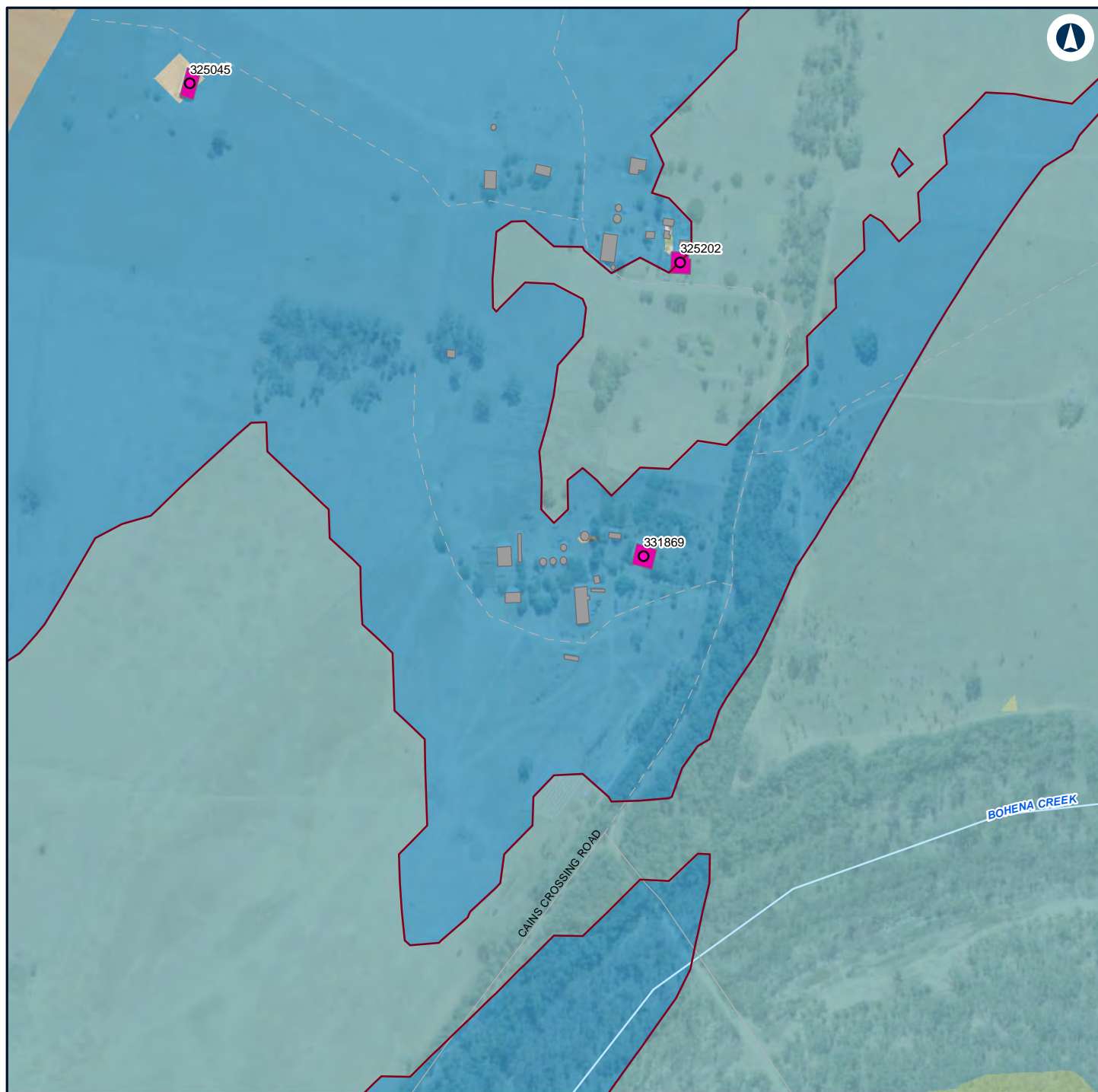
Author: GHD

Scale: 1:5,000

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

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## LEGEND

<b>Structure type</b>	35 - 40
Residential	40 - 45
Other	
Residential	
<b>Noise level (dBA L</b>	
<b>Aeq 15 minute)</b>	
30 - 35	



## NARROMINE TO NARRABRI

## Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 243 of 304

0 0.1 0.2  
Km

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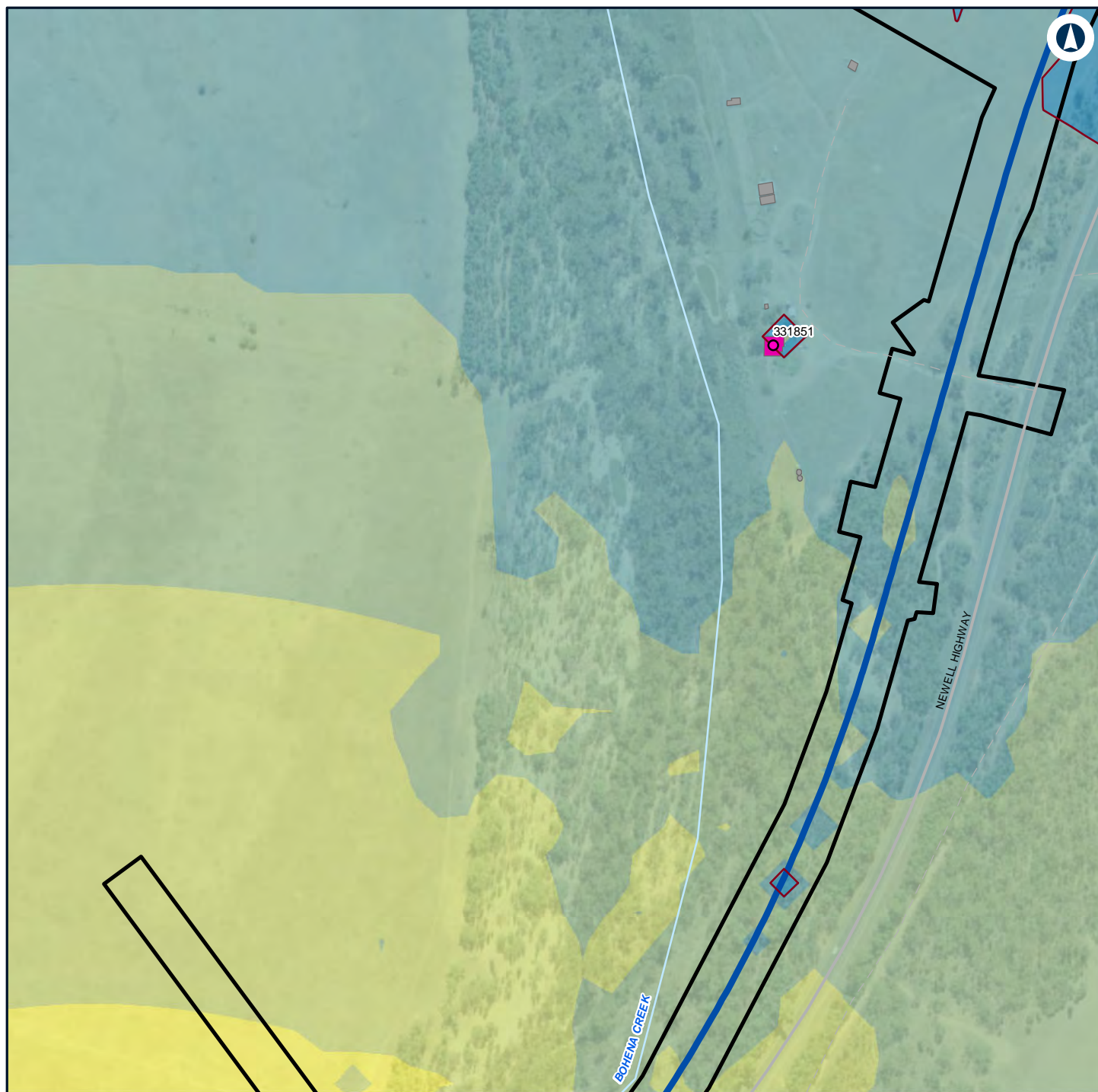
Scale: 1:5,000

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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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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)

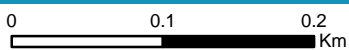
■ 30 - 35



#### NARROMINE TO NARRABRI

#### Construction noise contours, Scenario ROAD03 - Road Earthworks

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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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0 0.1 0.2  
Km

Coordinate System: GDA 1994 MGA Zone 55

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

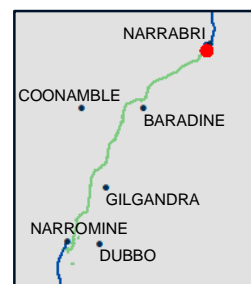
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#### LEGEND

- Structure type**
- Residential
  - Residential
  - Other
  - 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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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)

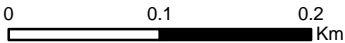
30 - 35



## NARROMINE TO NARRABRI

## Construction noise contours, Scenario ROAD03 - Road Earthworks

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Coordinate System: GDA 1994 MGA Zone 55

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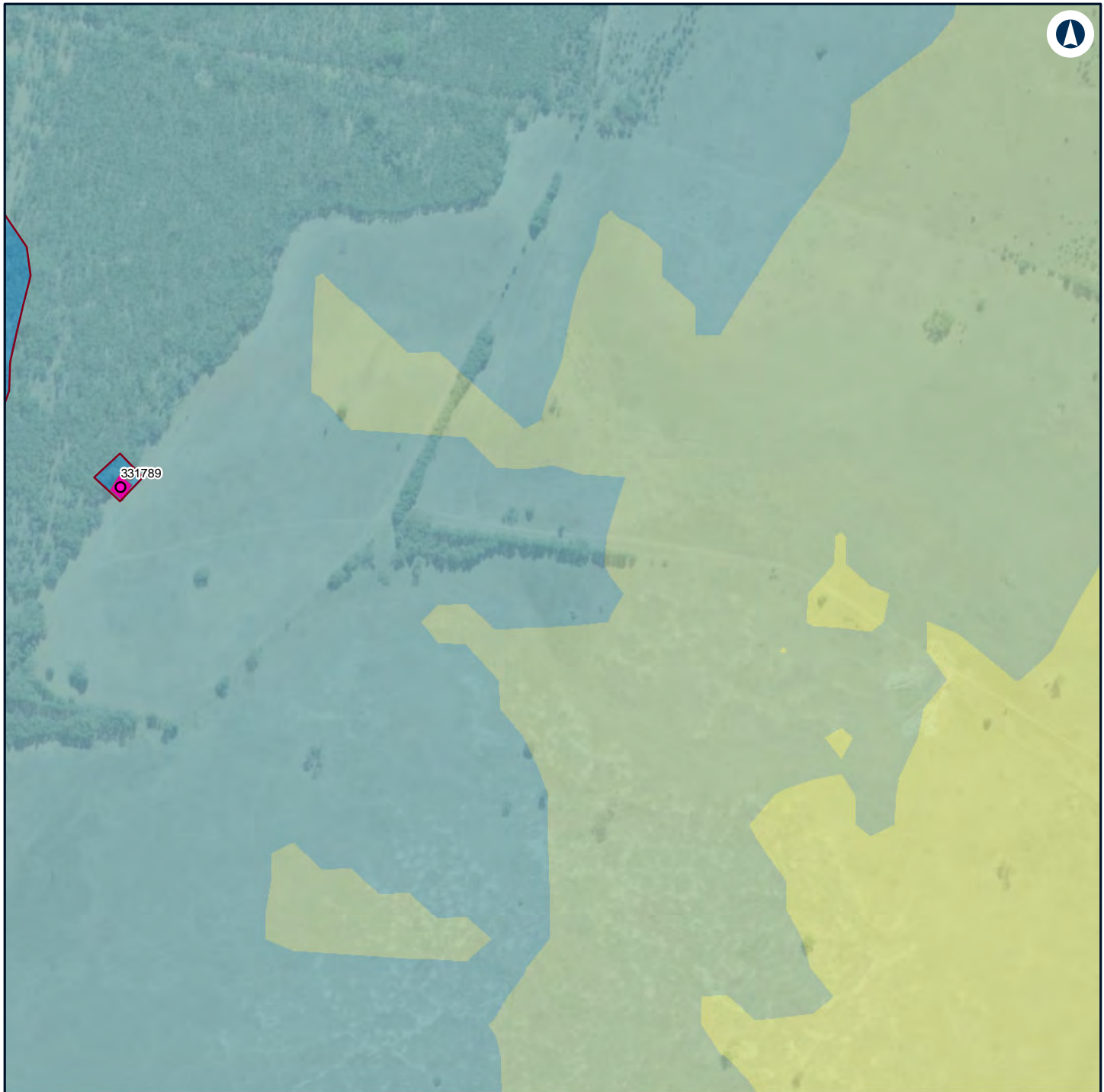
Author: GHD

Scale: 1:5,000

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

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#### LEGEND

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



#### NARROMINE TO NARRABRI

#### Construction noise contours, Scenario ROAD03 - Road Earthworks

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0 0.1 0.2  
Km

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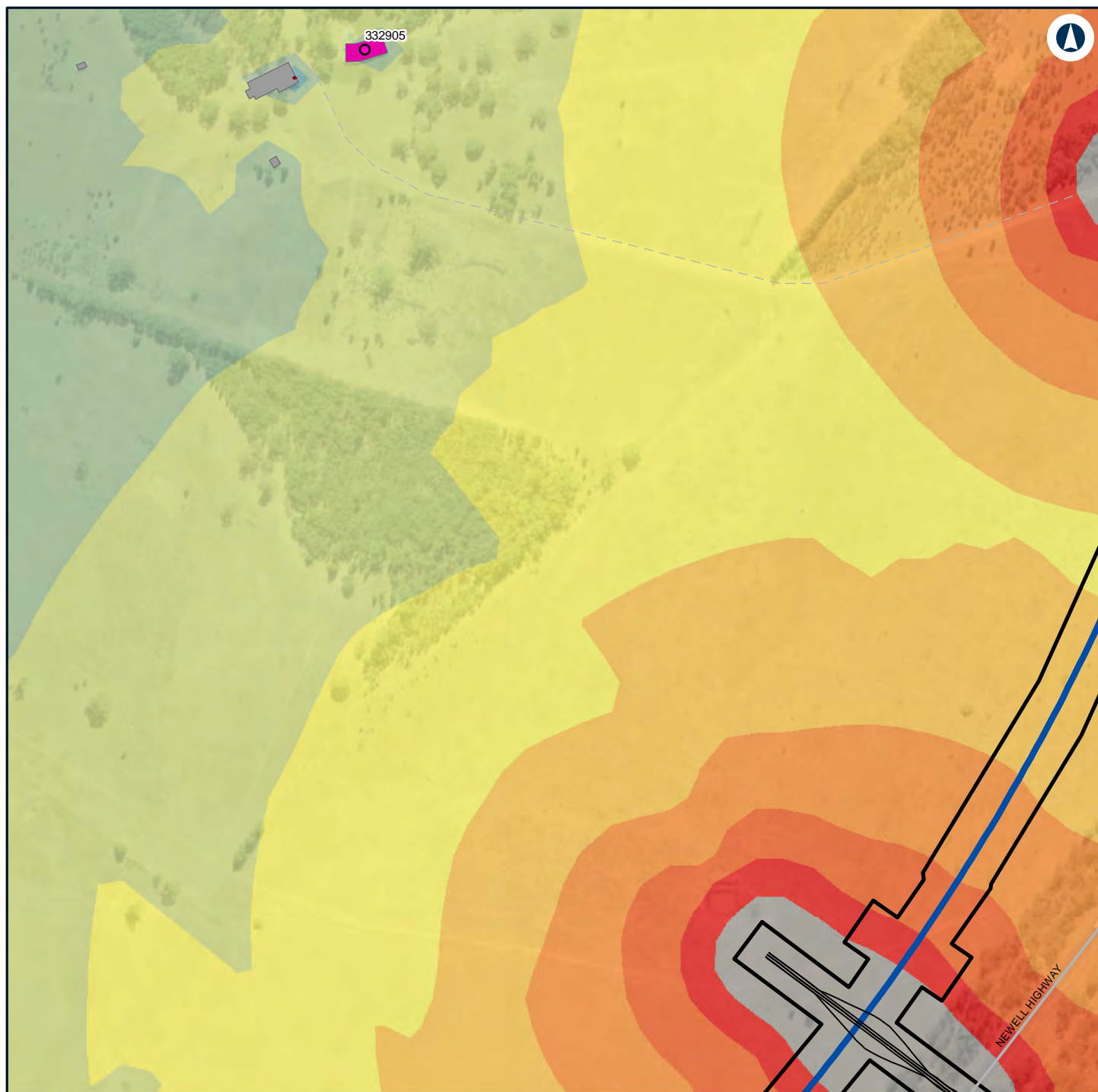
Scale: 1:5,000

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

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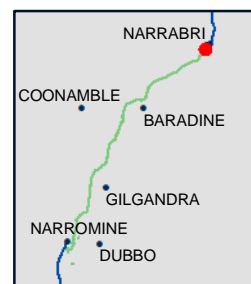
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#### LEGEND

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



#### NARROMINE TO NARRABRI

#### Construction noise contours, Scenario ROAD03 - Road Earthworks

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0 0.1 0.2  
Km

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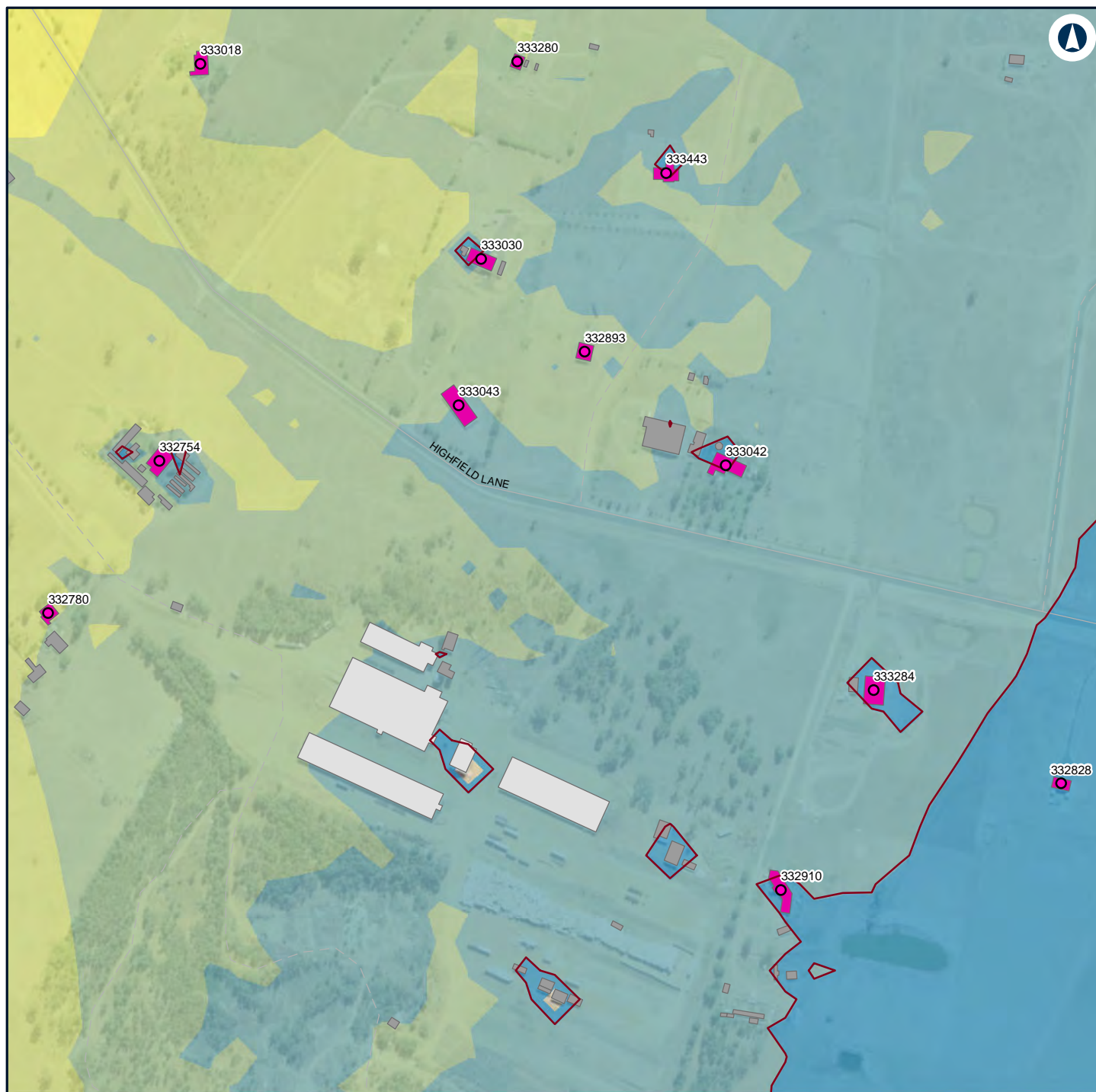
Author: GHD

Scale: 1:5,000

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

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## LEGEND

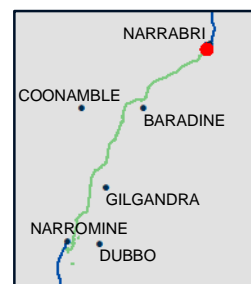
### Structure type

- Residential
- Commercial/Industrial
- 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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0 0.1 0.2  
Km

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Author: GHD

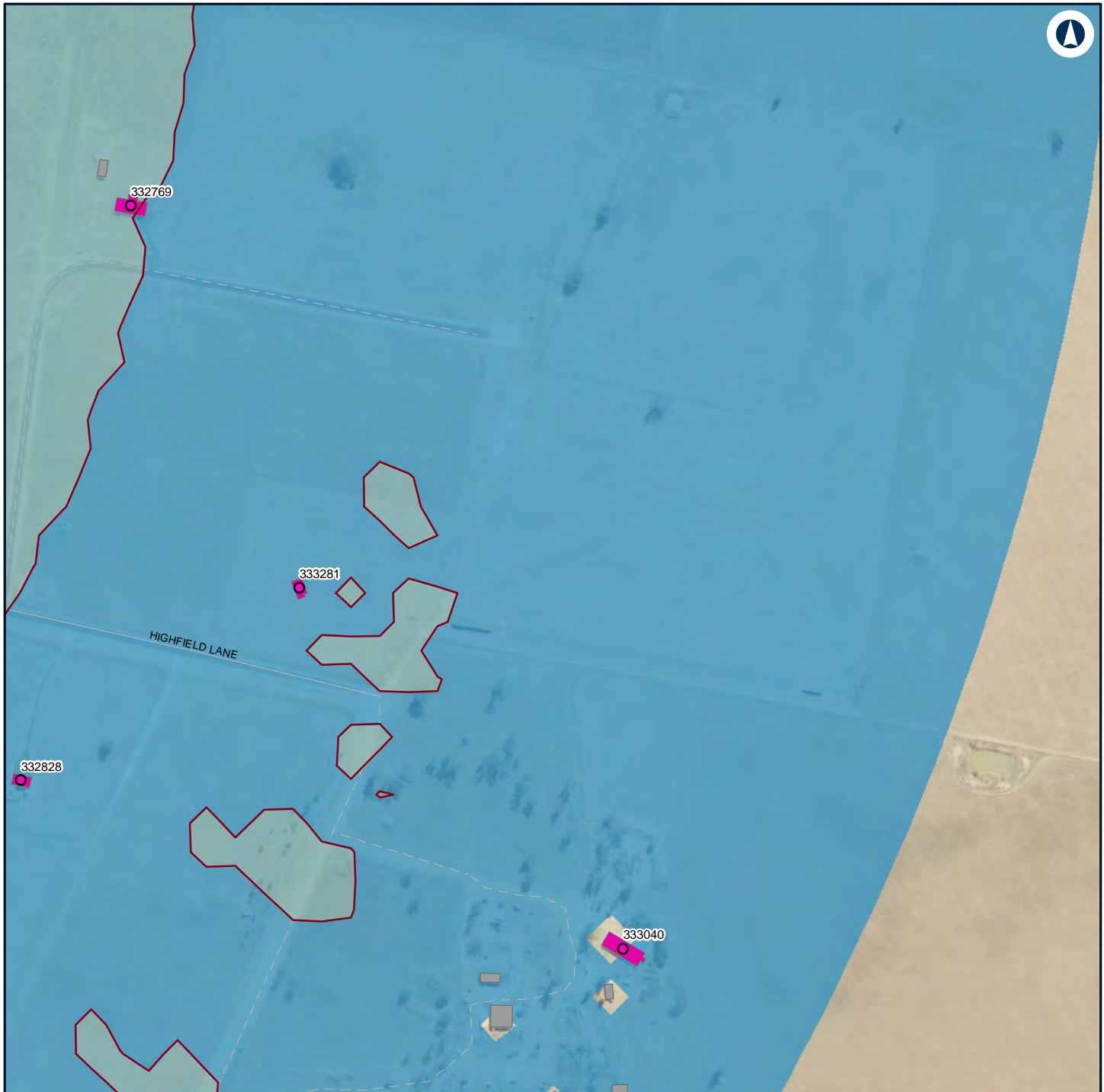
Scale: 1:5,000

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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0 0.1 0.2  
Km

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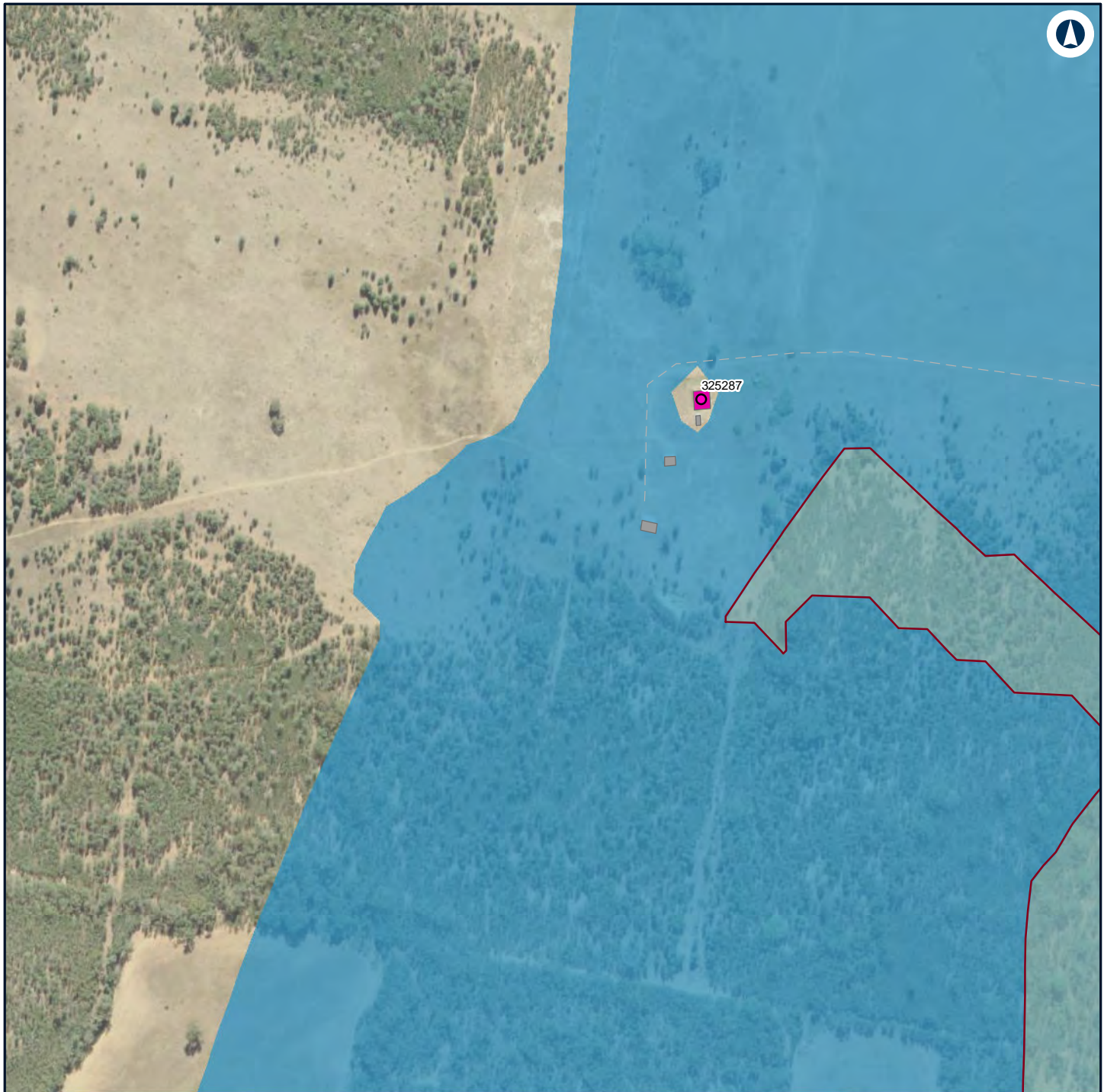
Author: GHD

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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0 0.1 0.2  
Km

Coordinate System: GDA 1994 MGA Zone 55

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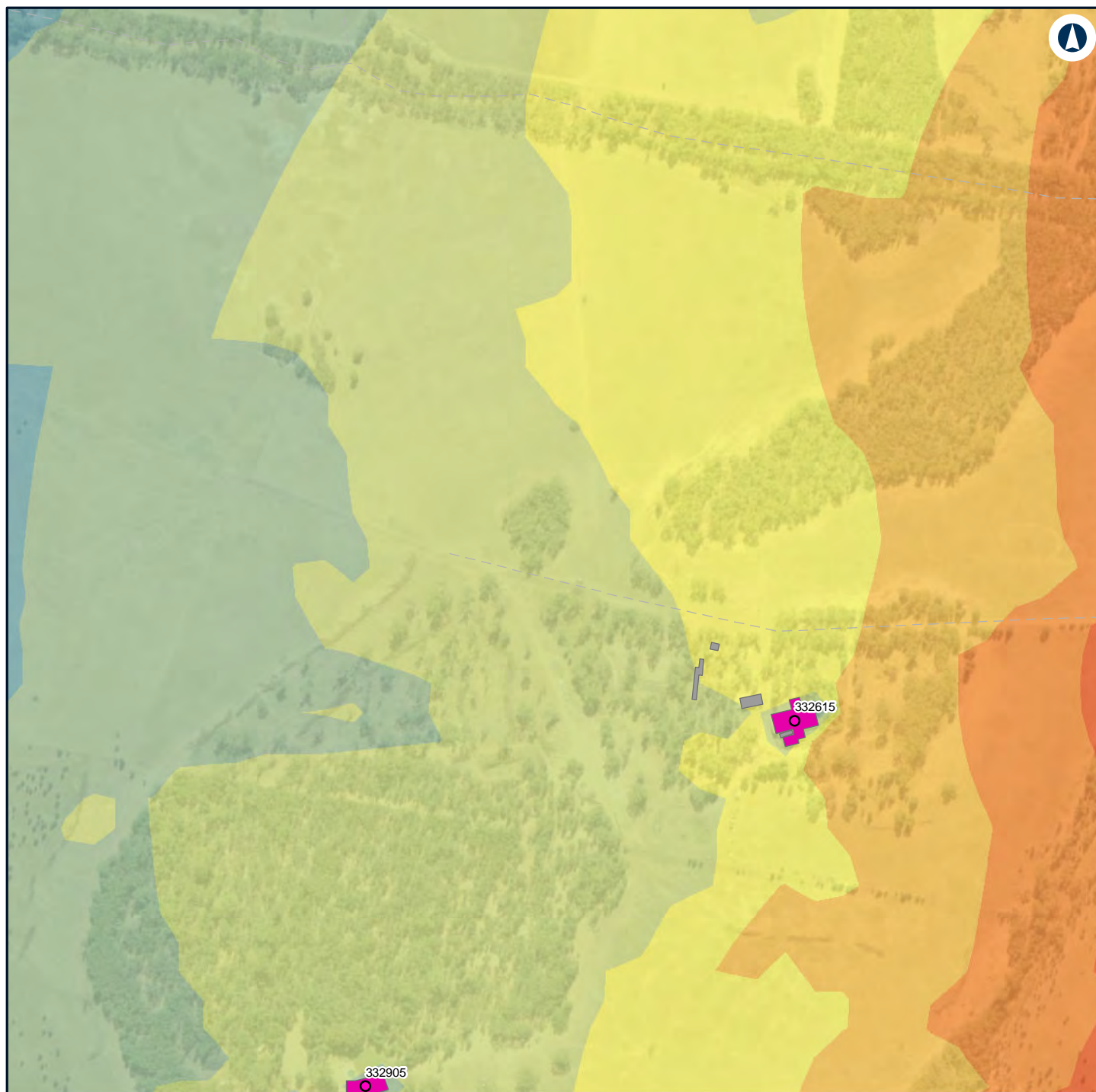
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

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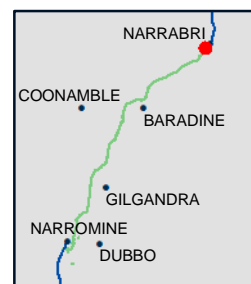
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## LEGEND

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



## NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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0 0.1 0.2 Km

Coordinate System: GDA 1994 MGA Zone 55

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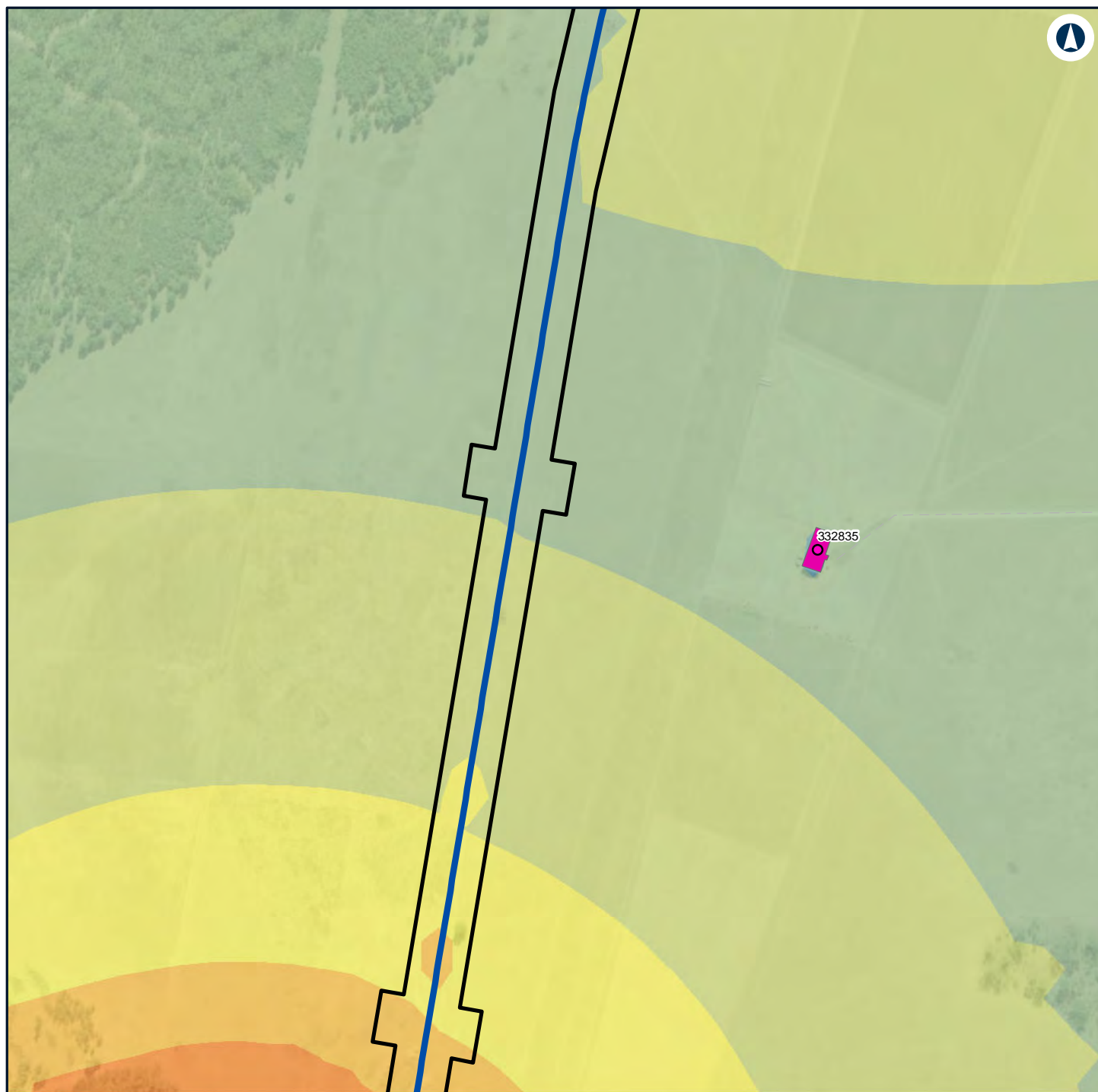
Author: GHD

Scale: 1:5,000

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

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#### LEGEND

Alignment

Construction footprint

#### Structure type

Residential

Residential

Noise level (dBA L Aeq 15 minute)

35 - 40

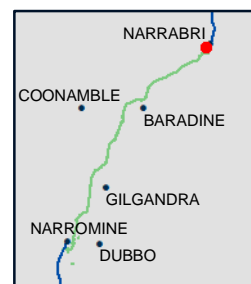
40 - 45

45 - 50

50 - 55

55 - 60

60 - 65



#### NARROMINE TO NARRABRI

#### Construction noise contours, Scenario ROAD03 - Road Earthworks

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0 0.1 0.2 Km

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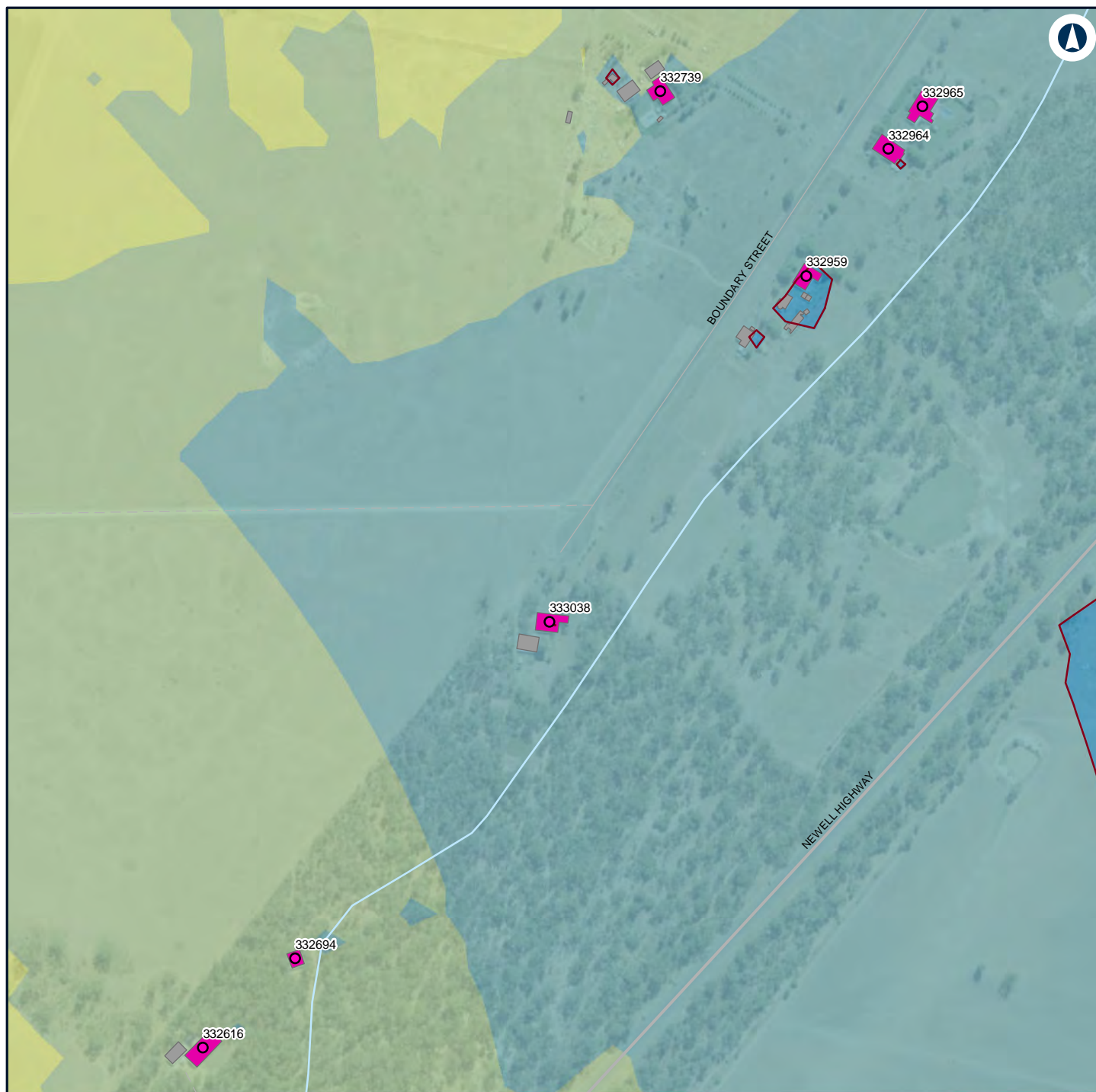
Scale: 1:5,000

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

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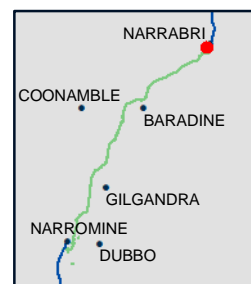
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## LEGEND

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



## NARROMINE TO NARRABRI

## Construction noise contours, Scenario ROAD03 - Road Earthworks

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0 0.1 0.2  
Km

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## LEGEND

**Structure type** 35 - 40

Residential

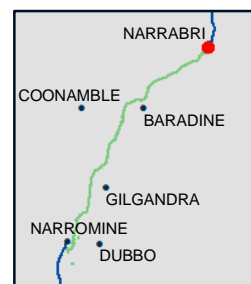
Other

Residential

**Noise level (dBA L**

Aeq 15 minute)

30 - 35



## NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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0 0.1 0.2  
Km

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## LEGEND

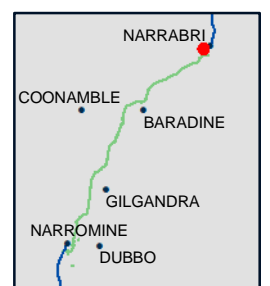
### Structure type

- 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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0 0.1 0.2  
Km

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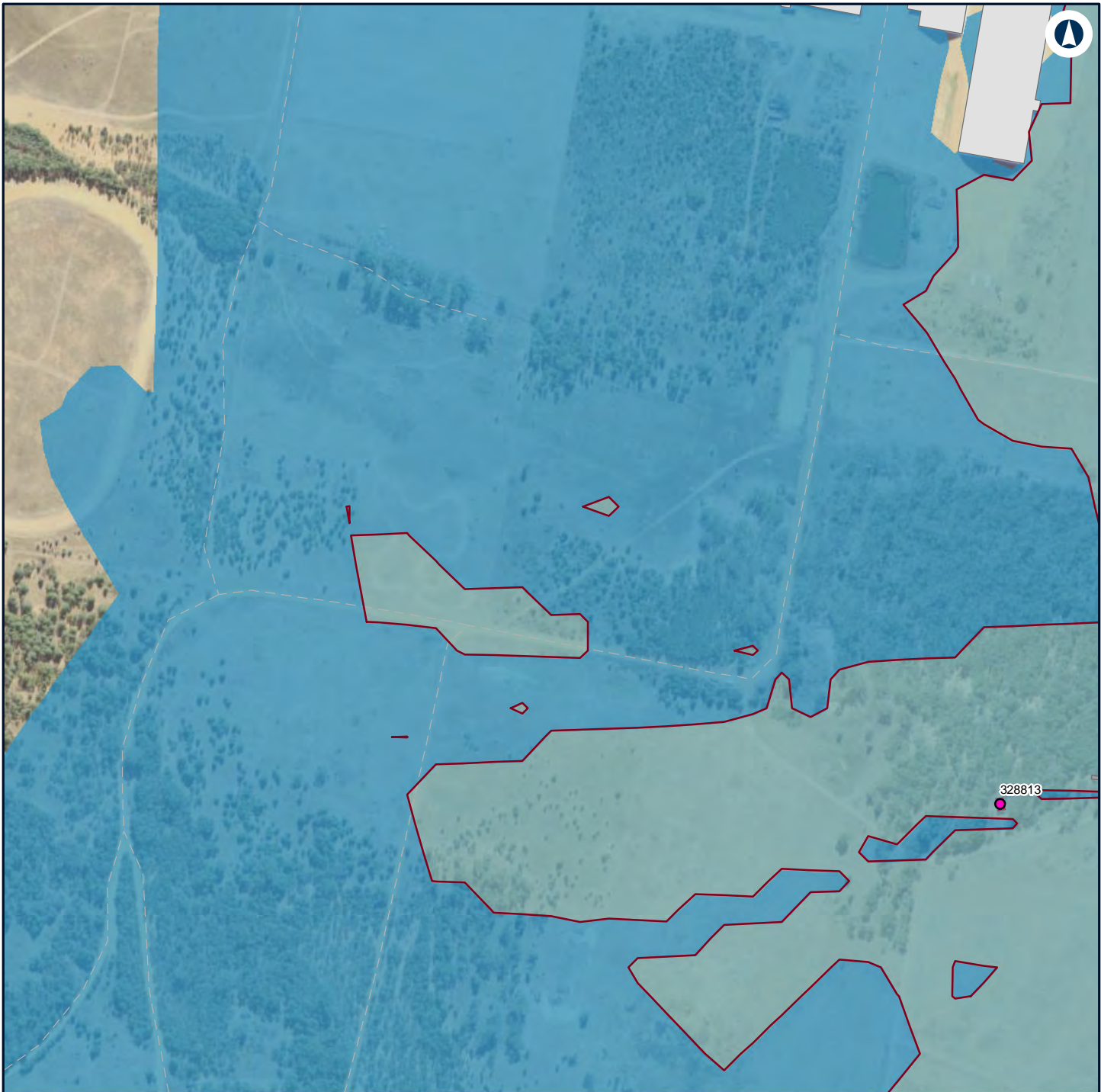
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# LEGEND

## Structure type

- Residential
- Commercial/Industrial
- Other
- Residential

## Noise level (dBA L

Aeq 15 minute)

- 30 - 35
- 35 - 40



## NARROMINE TO NARRABRI

## Construction noise contours, Scenario ROAD03 - Road Earthworks

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0 0.1 0.2  
Km

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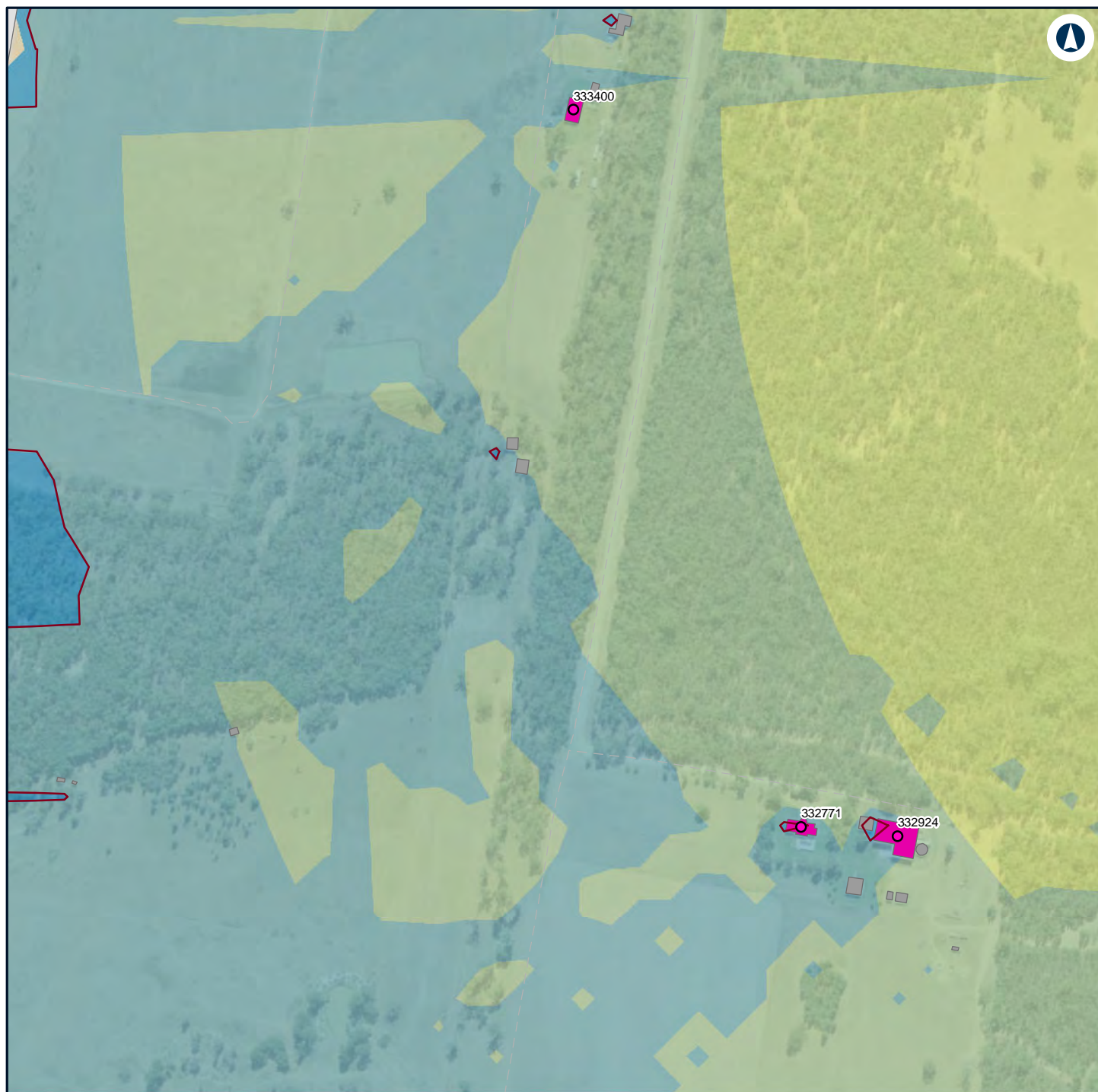
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

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## LEGEND

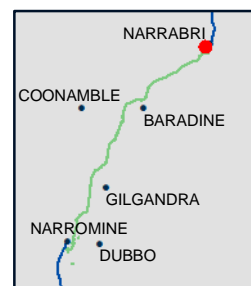
### Structure type

- Residential
- 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

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0 0.1 0.2  
Km

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4

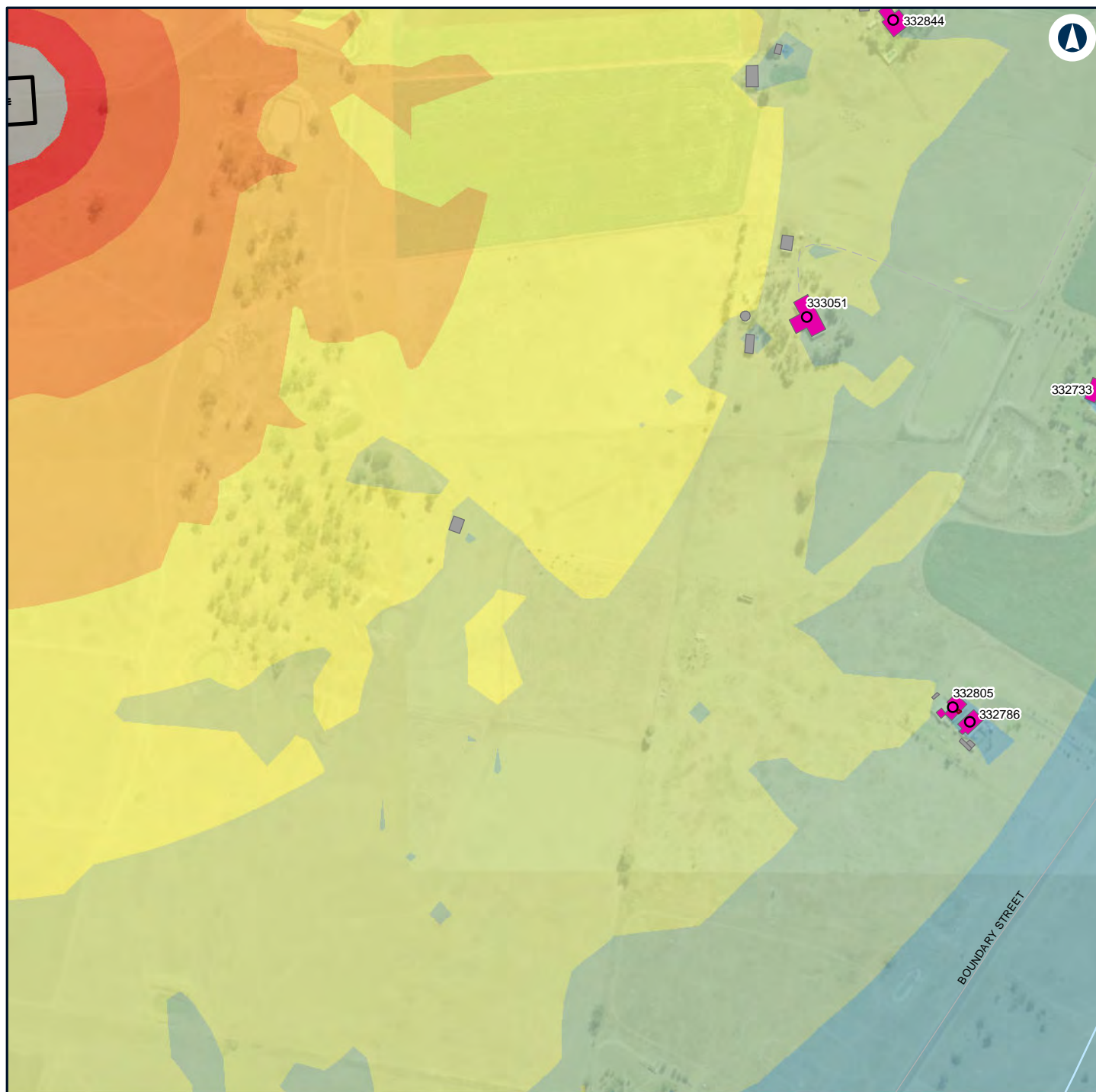
Author: GHD

Scale: 1:5,000

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

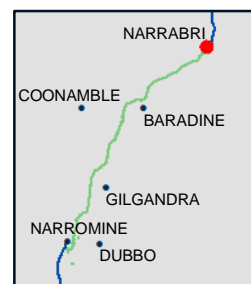
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## LEGEND

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



## NARROMINE TO NARRABRI

## Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 261 of 304

0 0.1 0.2  
Km

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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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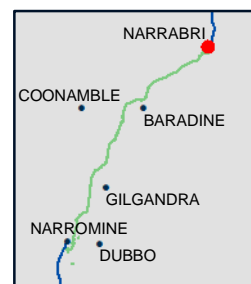
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## LEGEND

<b>Structure type</b>	35 - 40
Residential	40 - 45
Other	
Residential	
<b>Noise level (dBA L)</b>	
Aeq 15 minute)	
30 - 35	



## NARROMINE TO NARRABRI

## Construction noise contours, Scenario ROAD03 - Road Earthworks

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0 0.1 0.2  
Km

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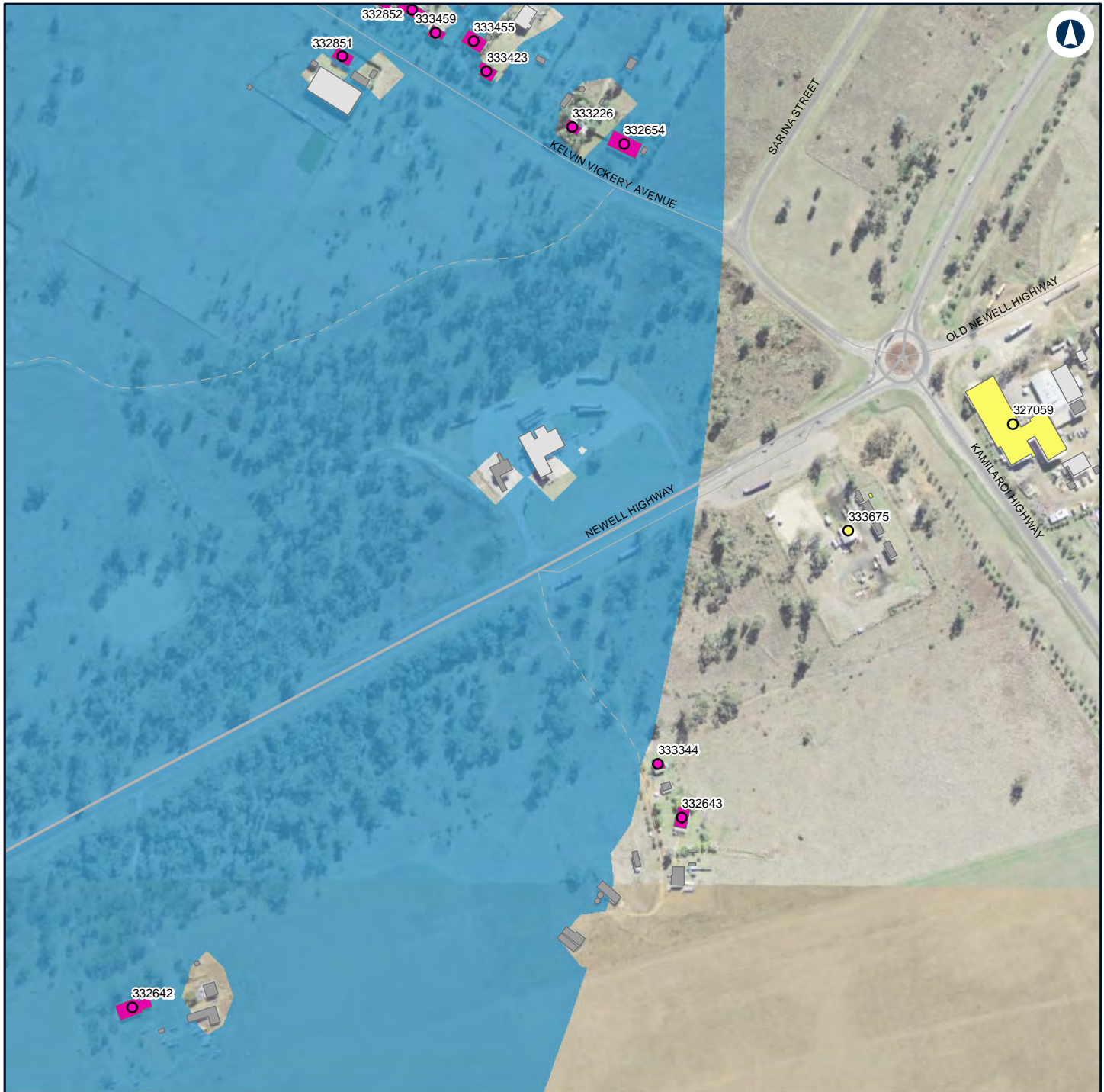
Author: GHD

Scale: 1:5,000

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

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#### LEGEND

##### Structure type

- Community
- Residential
- Commercial/Industrial
- Community
- 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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0 0.1 0.2  
Km

Coordinate System: GDA 1994 MGA Zone 55

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Author: GHD

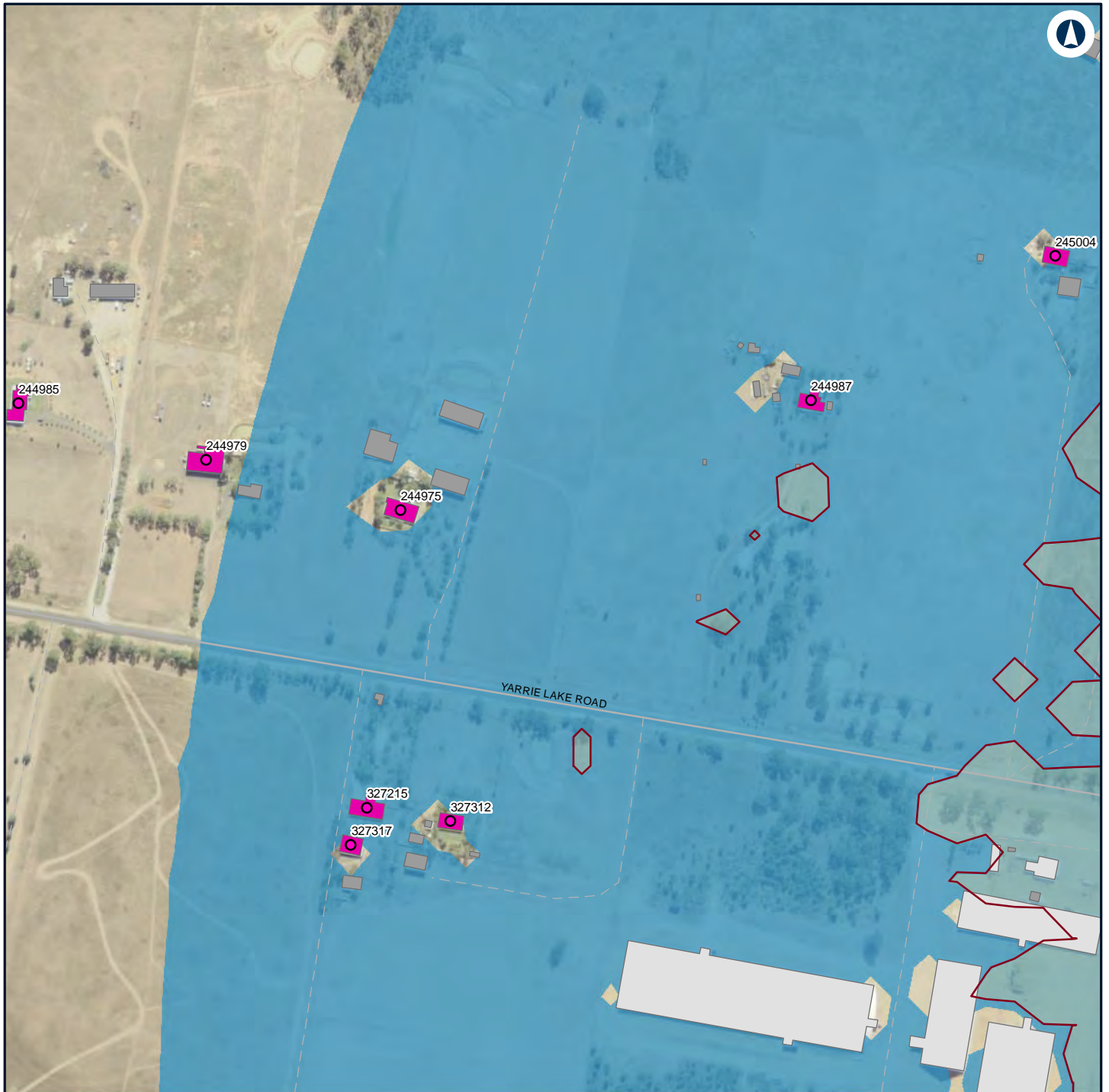
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

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## LEGEND

### Structure type

- Residential
- Commercial/Industrial
- Other
- 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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0 0.1 0.2  
Km

Coordinate System: GDA 1994 MGA Zone 55

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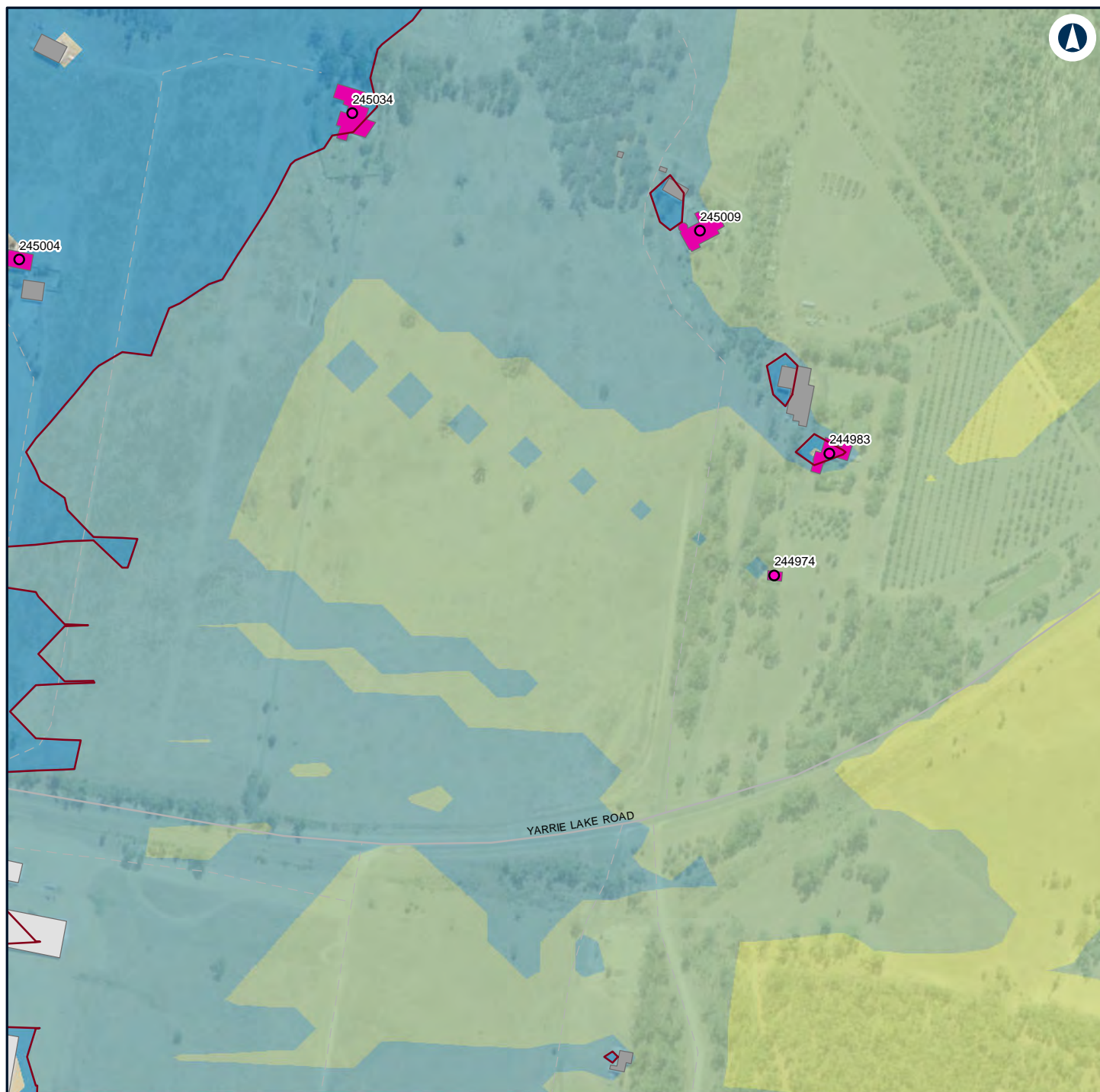
Author: GHD

Scale: 1:5,000

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

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## LEGEND

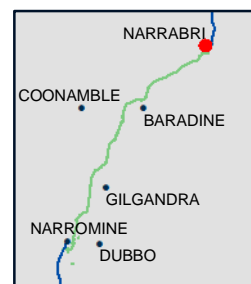
### Structure type

- 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

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0 0.1 0.2  
Km

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Author: GHD

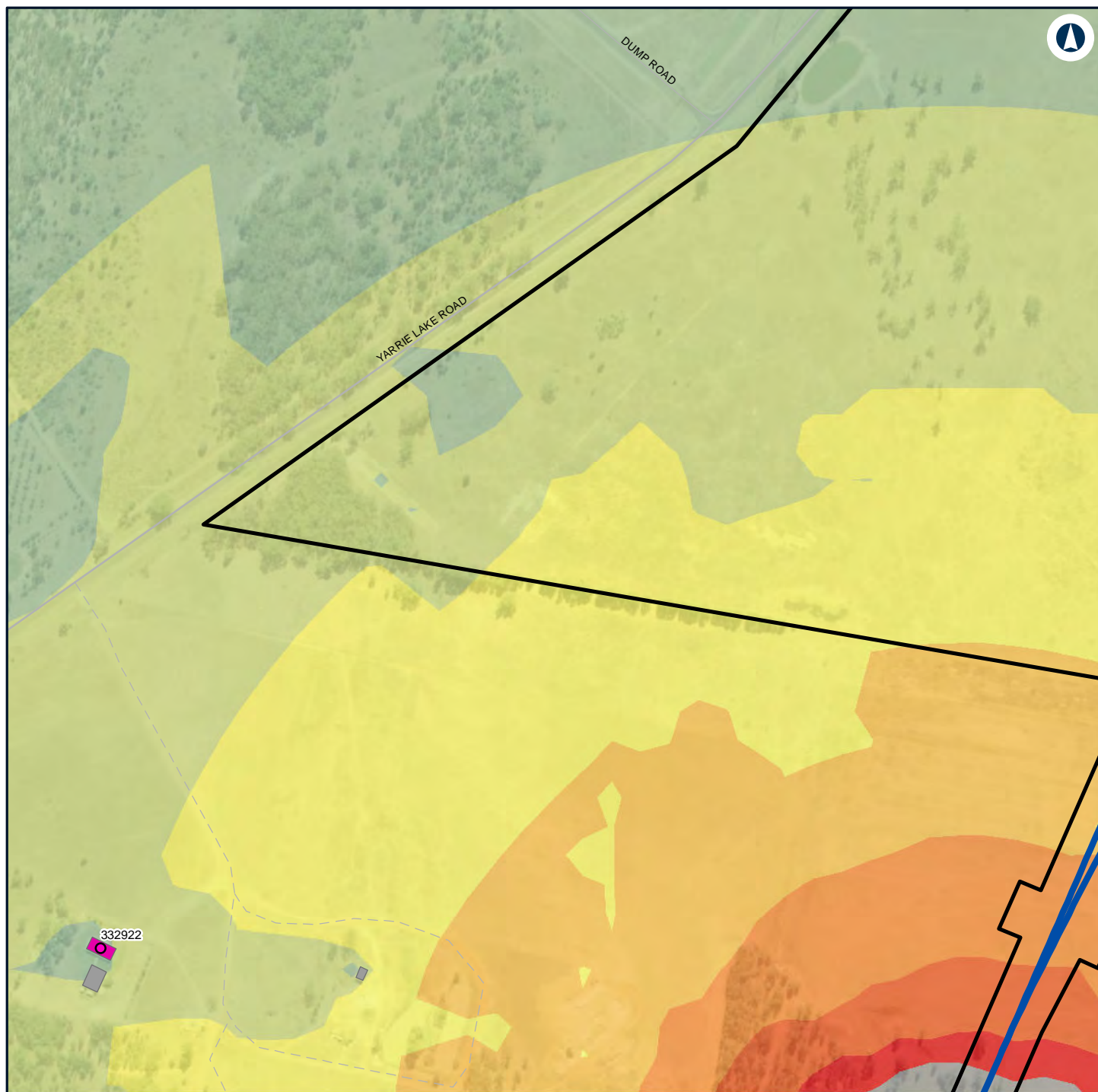
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

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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

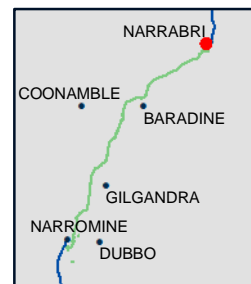
55 - 60

60 - 65

65 - 70

70 - 75

> 75



#### NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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0 0.1 0.2 Km

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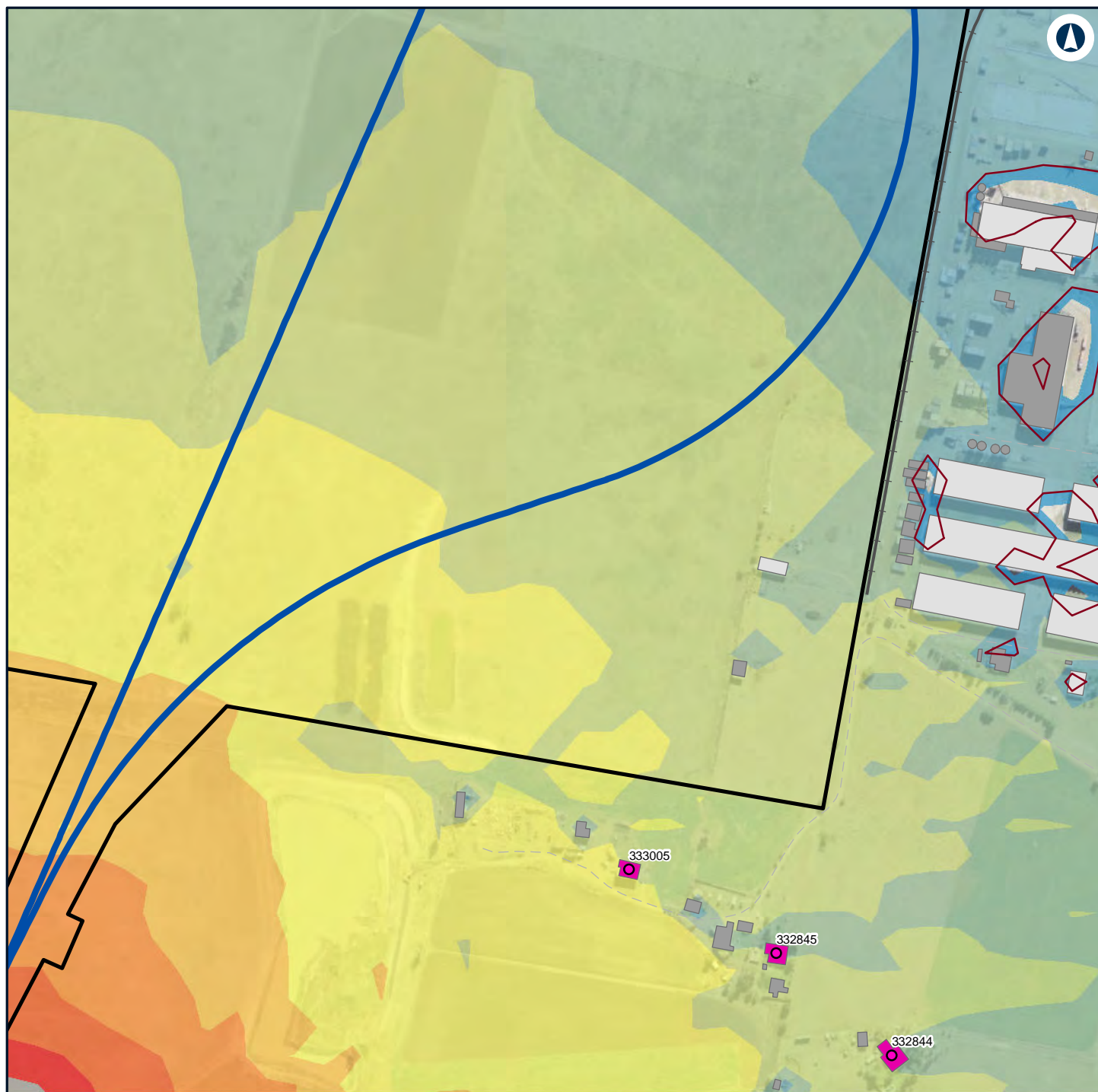
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

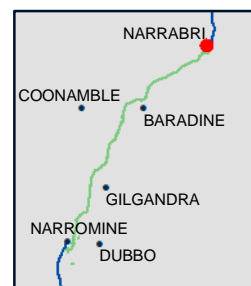
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#### LEGEND

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



#### NARROMINE TO NARRABRI

#### Construction noise contours, Scenario ROAD03 - Road Earthworks

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0 0.1 0.2  
Km

Coordinate System: GDA 1994 MGA Zone 55

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## LEGEND

### Structure type

- Active recreation
- Community
- Residential
- Worship
- Commercial/Industrial
- Community
- Other
- Residential
- Worship

### Noise level (dB A L

Aeq 15 minute)

30 - 35



## NARROMINE TO NARRABRI

## Construction noise contours, Scenario ROAD03 - Road Earthworks

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0 0.1 0.2 Km

Coordinate System: GDA 1994 MGA Zone 55

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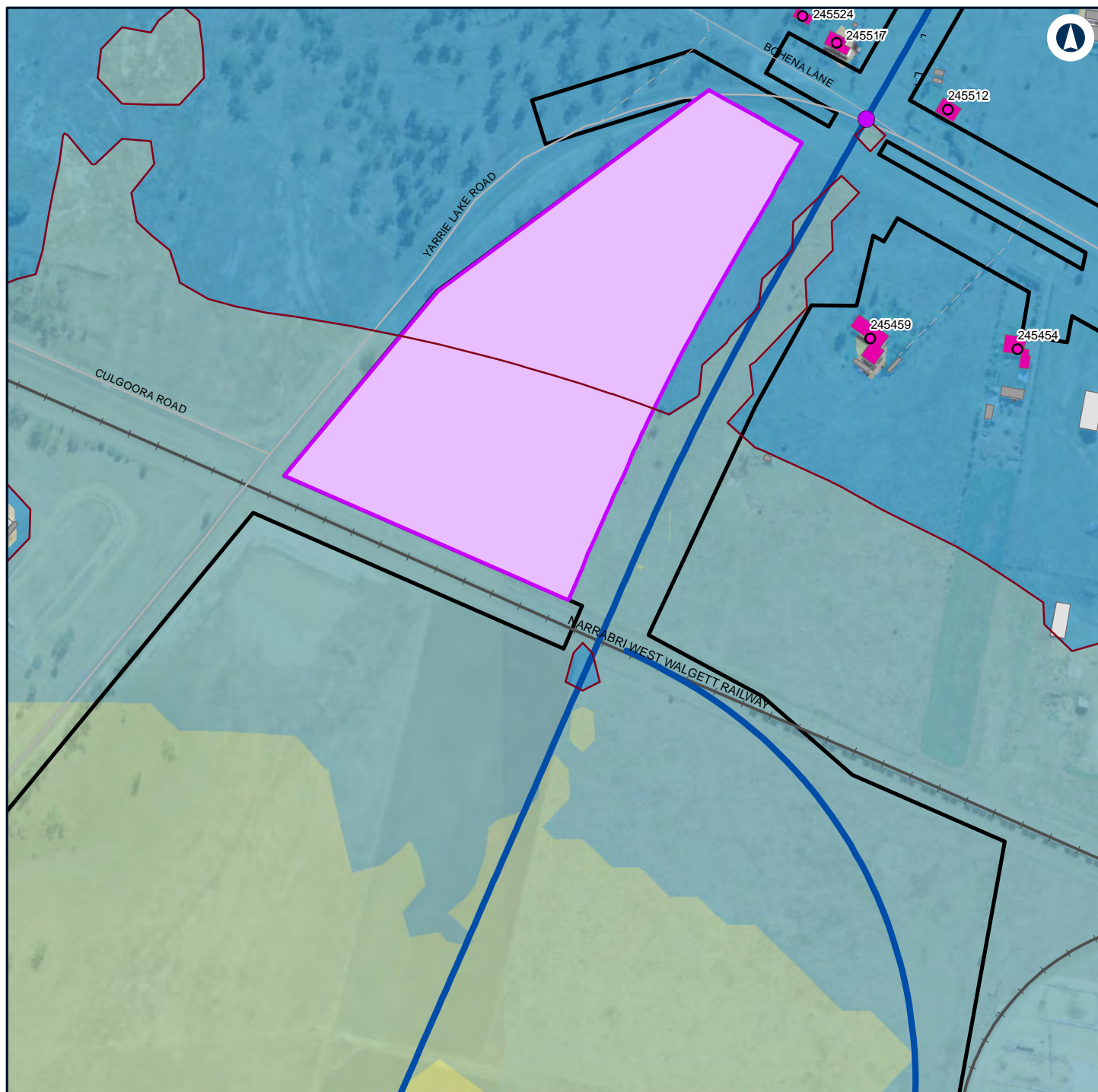
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

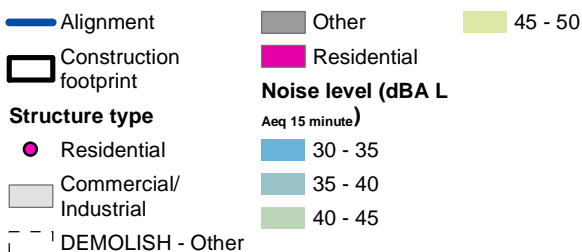
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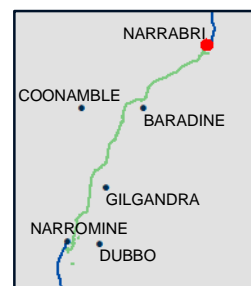




# LEGEND



Noise level (dBA L  
Aeq 15 minute)



## NARRABRI TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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Coordinate System: GDA 1994 MGA Zone 55

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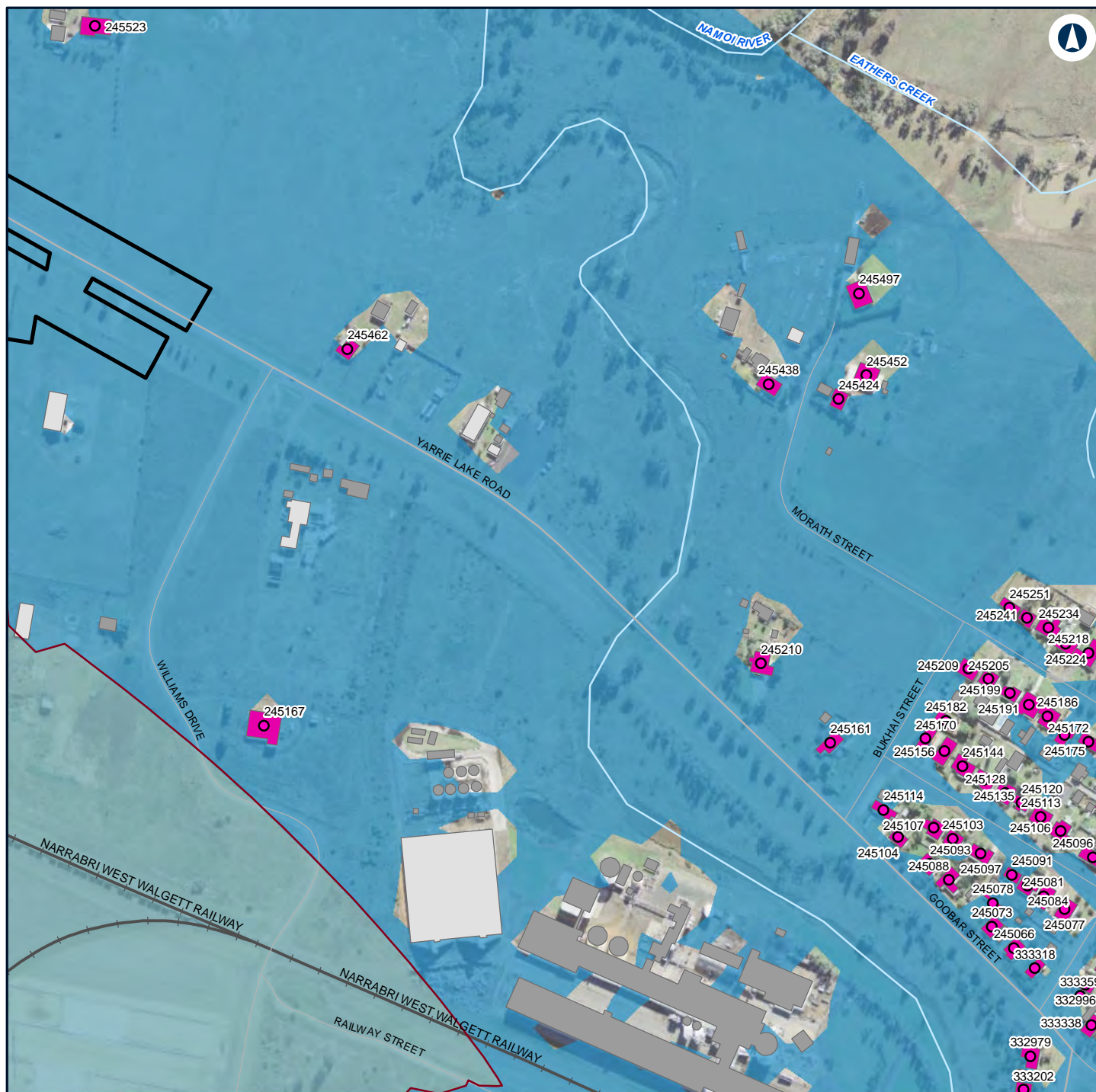
Author: GHD

Scale: 1:5,000

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

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## LEGEND

Construction footprint

### Structure type

Residential

Commercial/  
Industrial

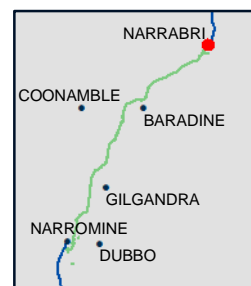
Other

Residential

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

30 - 35

35 - 40



## NARRABRI TO NARRABRI

## Construction noise contours, Scenario ROAD03 - Road Earthworks

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0 0.1 0.2  
Km

Coordinate System: GDA 1994 MGA Zone 55

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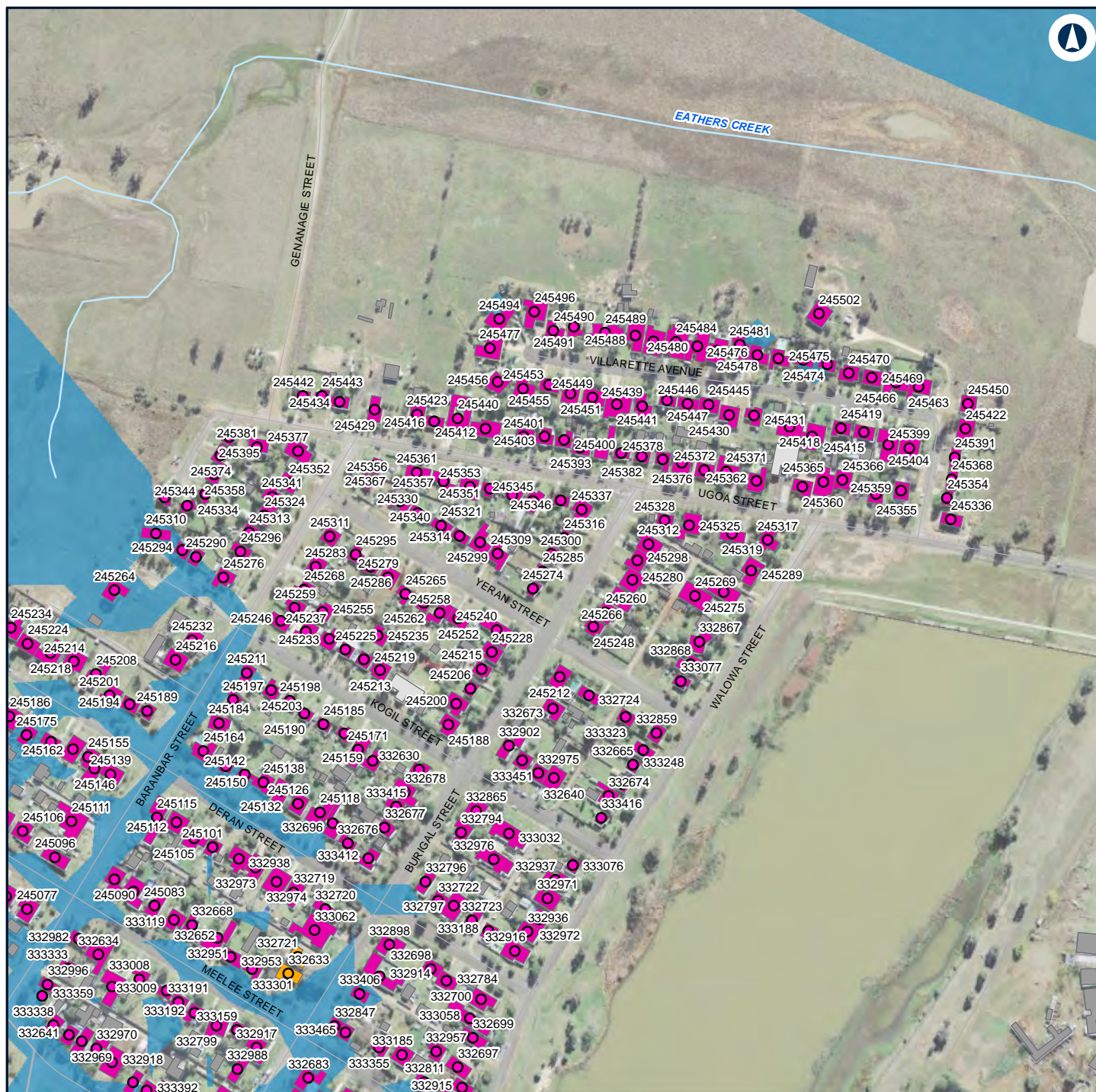
Scale: 1:5,000

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

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## LEGEND

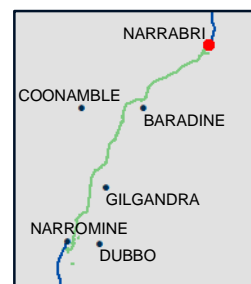
### Structure type

- Residential
- Worship
- Commercial/Industrial
- 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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0 0.1 0.2  
Km

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Author: GHD

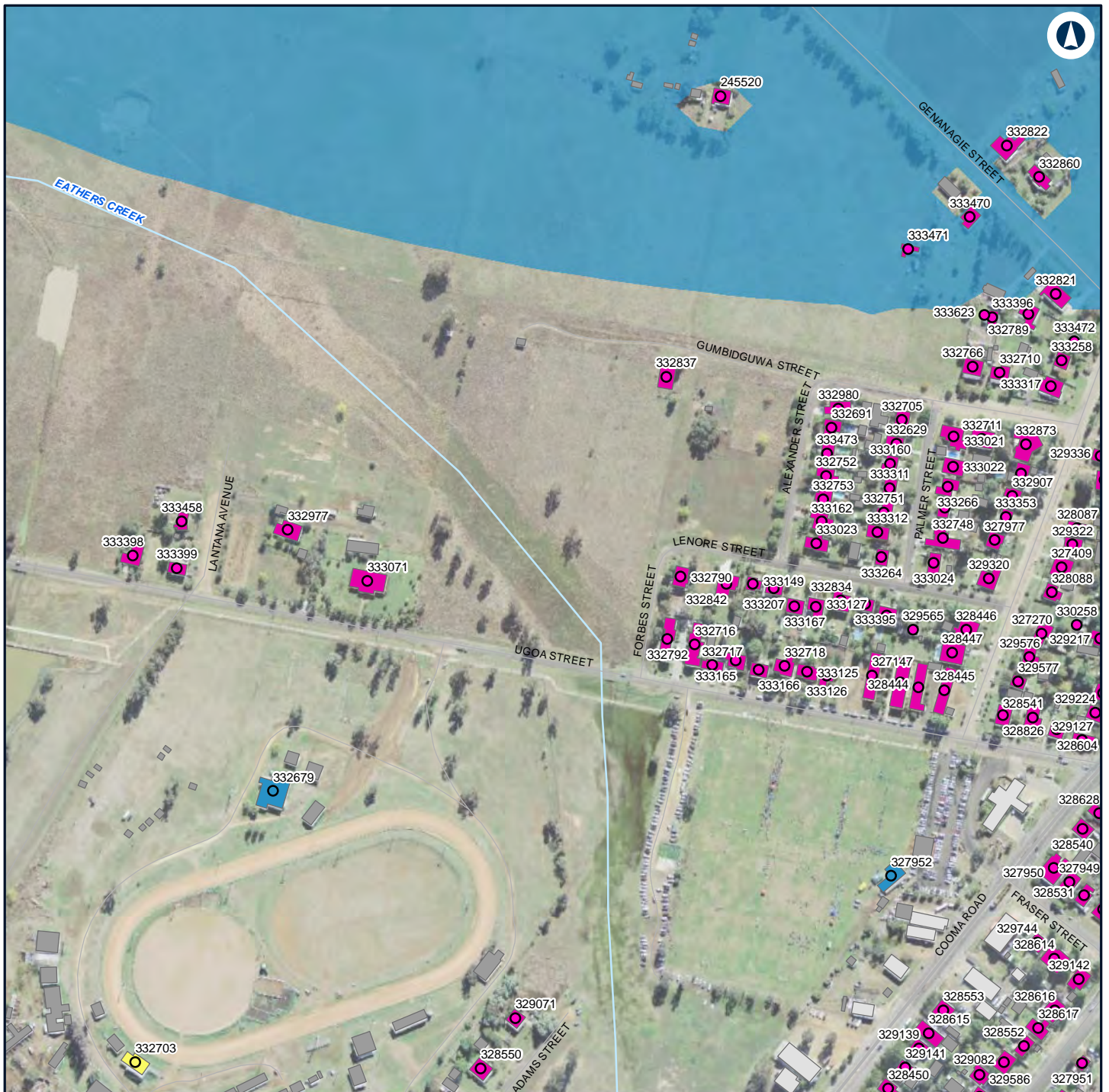
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

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## LEGEND

### Structure type

- Active recreation
- Community
- Residential
- Active recreation
- Commercial/Industrial

Community

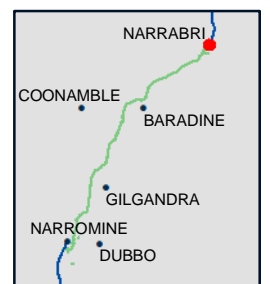
Other

Residential

### Noise level (dBA L

Aeq 15 minute)

30 - 35



## NARROMINE TO NARRABRI

## Construction noise contours, Scenario ROAD03 - Road Earthworks

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0 0.1 0.2  
Km

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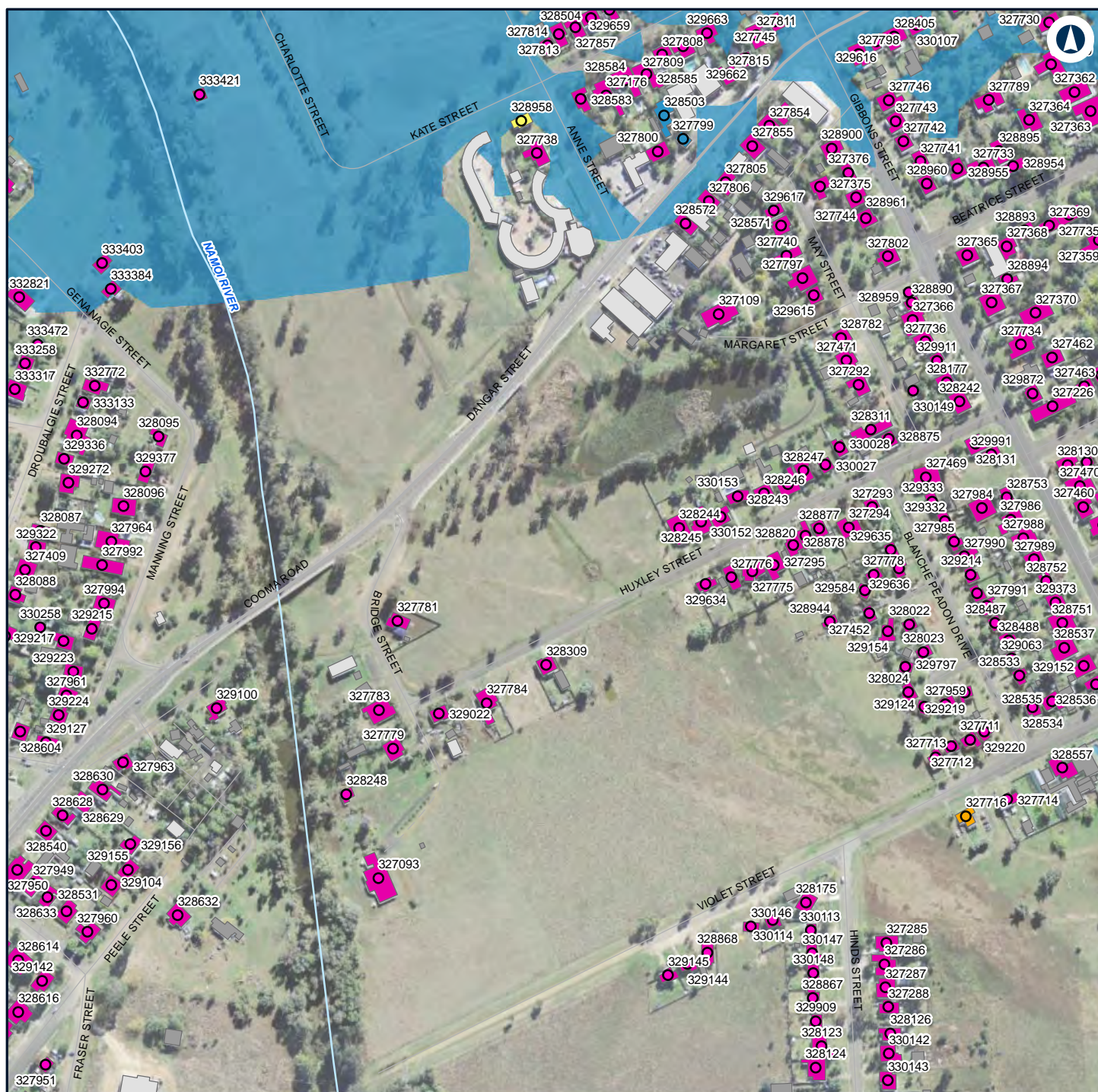
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## LEGEND

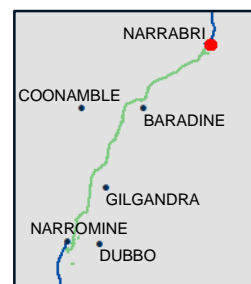
### Structure type

- Active recreation
- Community
- Residential
- Worship
- Active recreation
- 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

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0 0.1 0.2  
Km

Coordinate System: GDA 1994 MGA Zone 55

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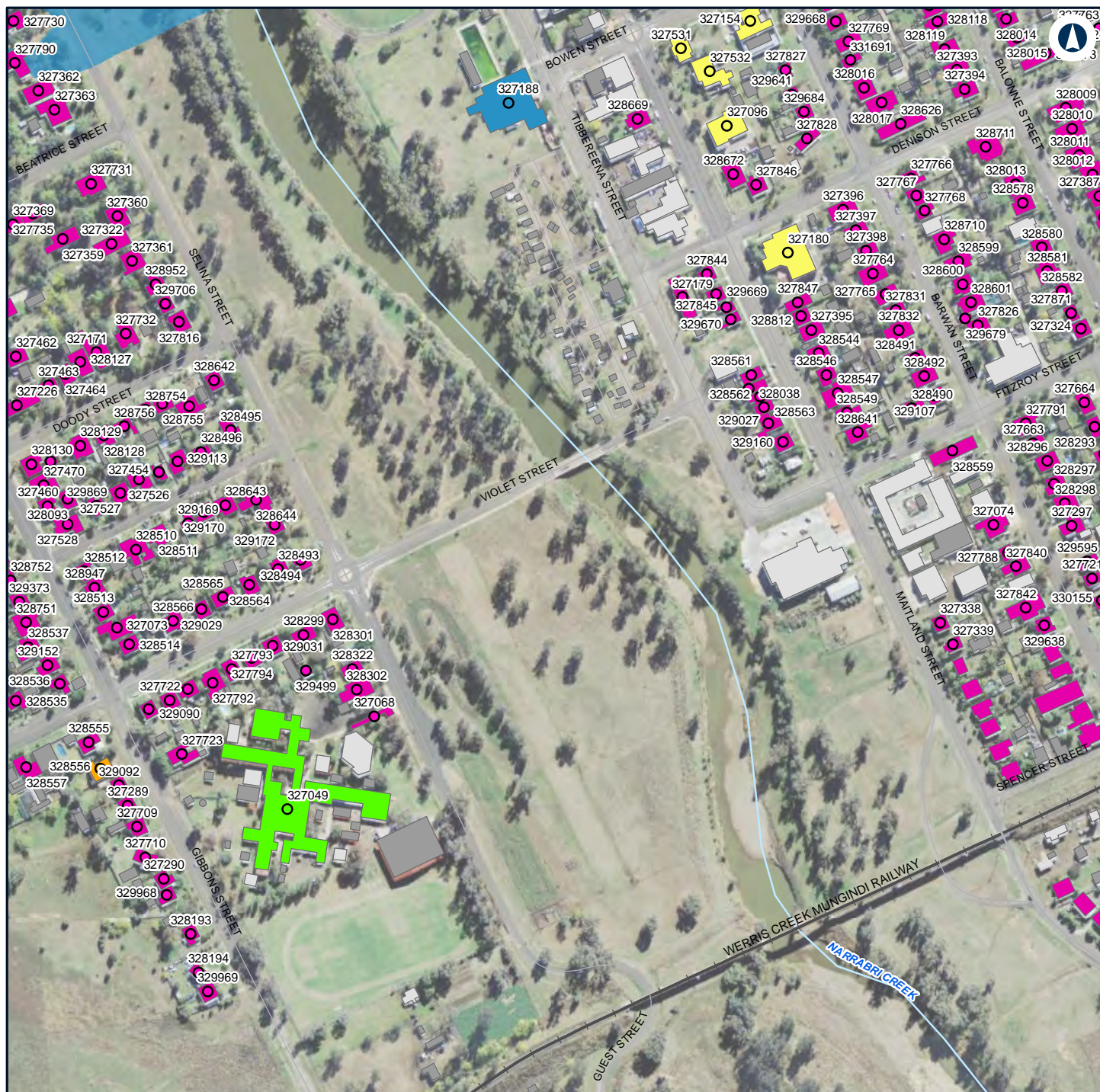
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

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## LEGEND

### Structure type

- Active recreation
- Community
- Educational
- Residential
- Worship
- Commercial/Industrial
- Community
- Educational
- Other
- Residential
- Worship

### Noise level (dBA L

Aeq 15 minute)  
30 - 35



## NARROMINE TO NARRABRI

## Construction noise contours, Scenario ROAD03 - Road Earthworks

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0 0.1 0.2  
Km

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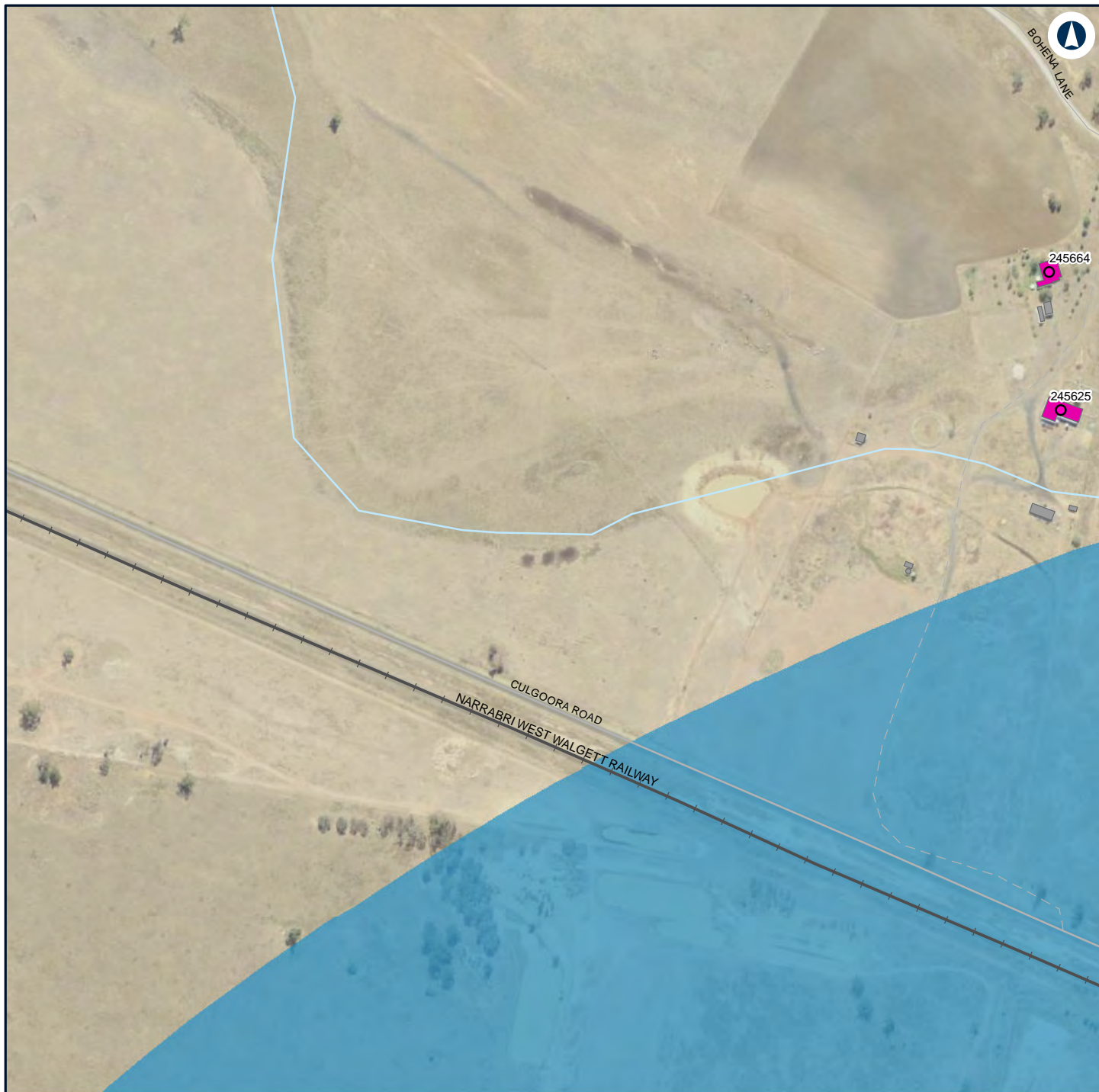
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

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## LEGEND

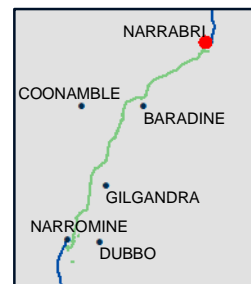
### Structure type

- Residential
- Other
- Residential

### Noise level (dBA L

Aeq 15 minute)

30 - 35



## NARROMINE TO NARRABRI

## Construction noise contours, Scenario ROAD03 - Road Earthworks

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0 0.1 0.2  
Km

Coordinate System: GDA 1994 MGA Zone 55

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Author: GHD

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

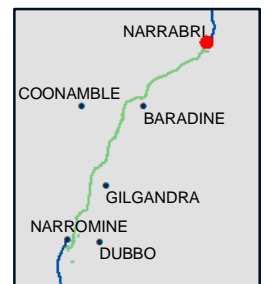
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#### LEGEND

- 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

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0 0.1 0.2  
Km

Coordinate System: GDA 1994 MGA Zone 55

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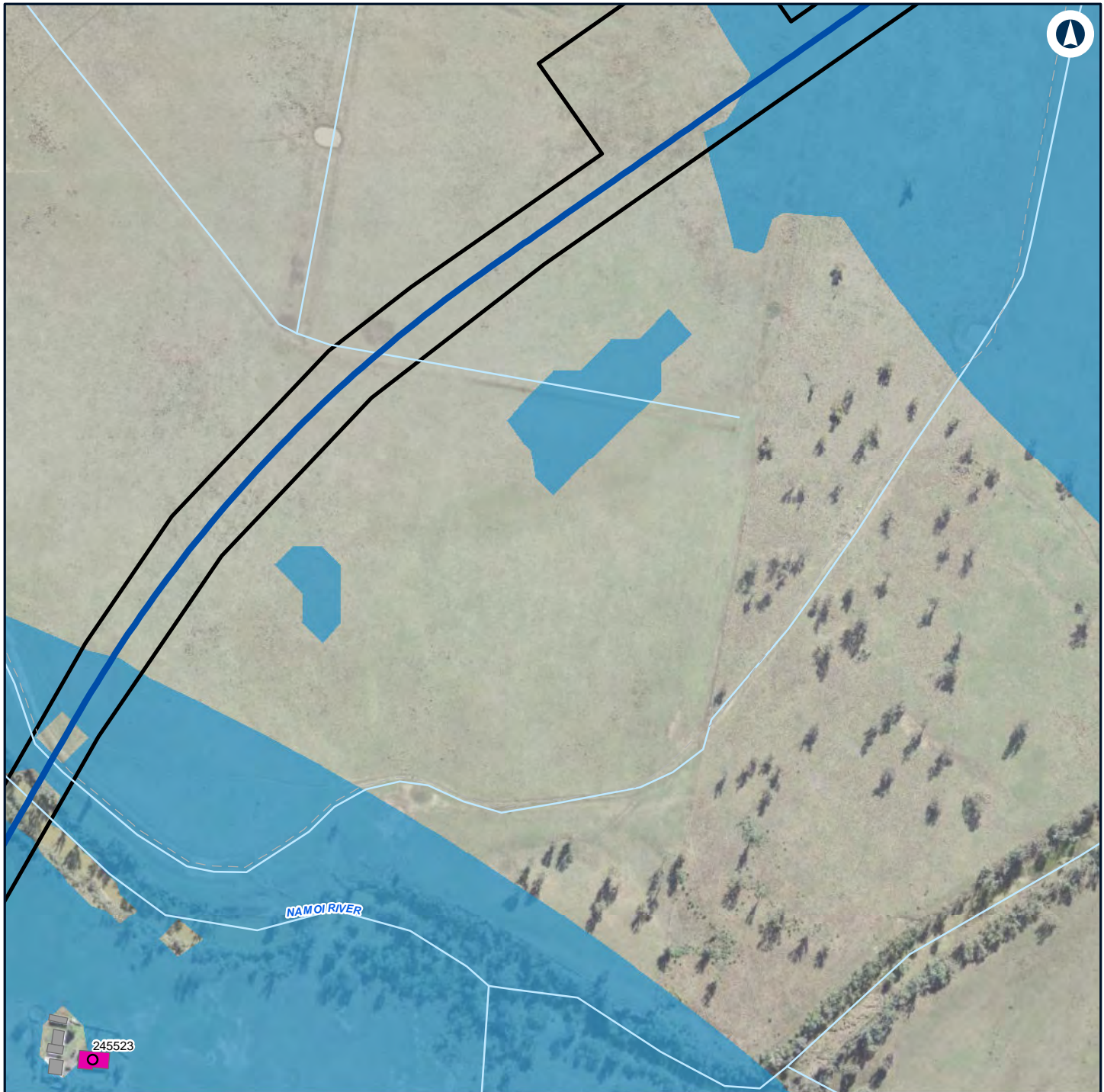
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#### LEGEND

Alignment

Construction footprint

Structure type

Residential

Other

Residential

Noise level (dBA L

Aeq 15 minute)

30 - 35



#### NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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0 0.1 0.2 Km

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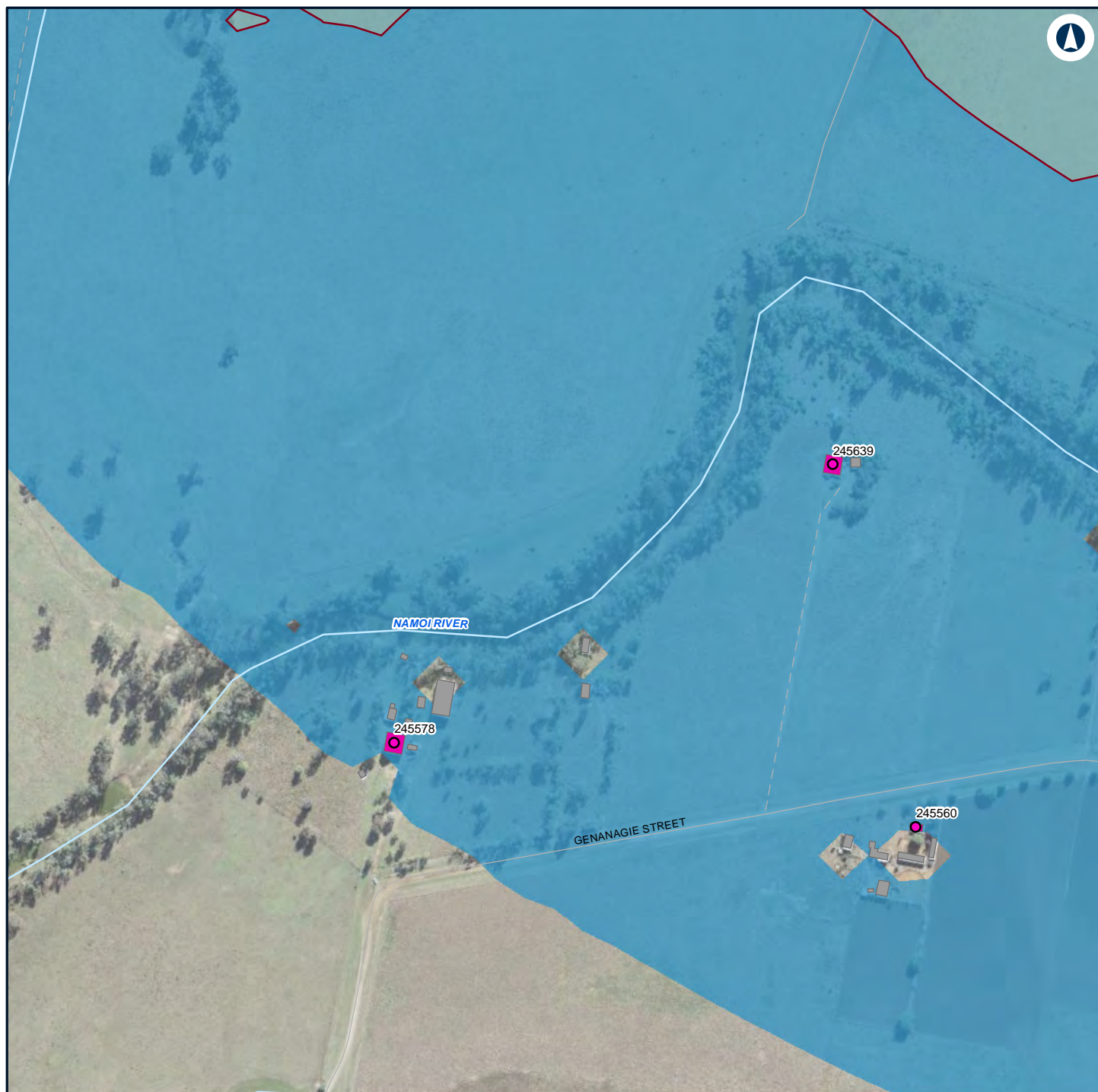
Author: GHD

Scale: 1:5,000

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

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## LEGEND

**Structure type** 35 - 40

Residential

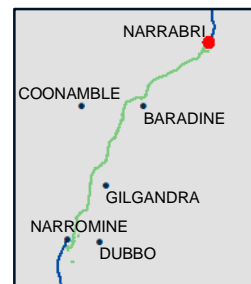
Other

Residential

**Noise level (dBA L**

Aeq 15 minute)

30 - 35



## NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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0 0.1 0.2  
Km

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4

Author: GHD

Scale: 1:5,000

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

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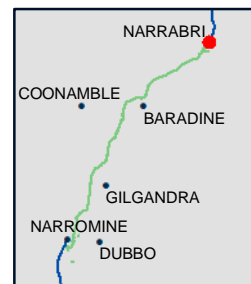
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#### LEGEND

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



#### NARROMINE TO NARRABRI

#### Construction noise contours, Scenario ROAD03 - Road Earthworks

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0 0.1 0.2  
Km

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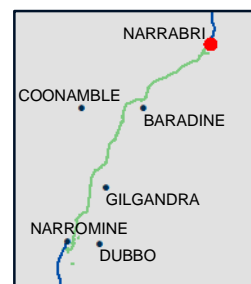
## LEGEND

### Structure type

- Active recreation
- Child care facility
- Health
- Passive recreation
- Residential
- Child care facility
- 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

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0 0.1 0.2  
Km

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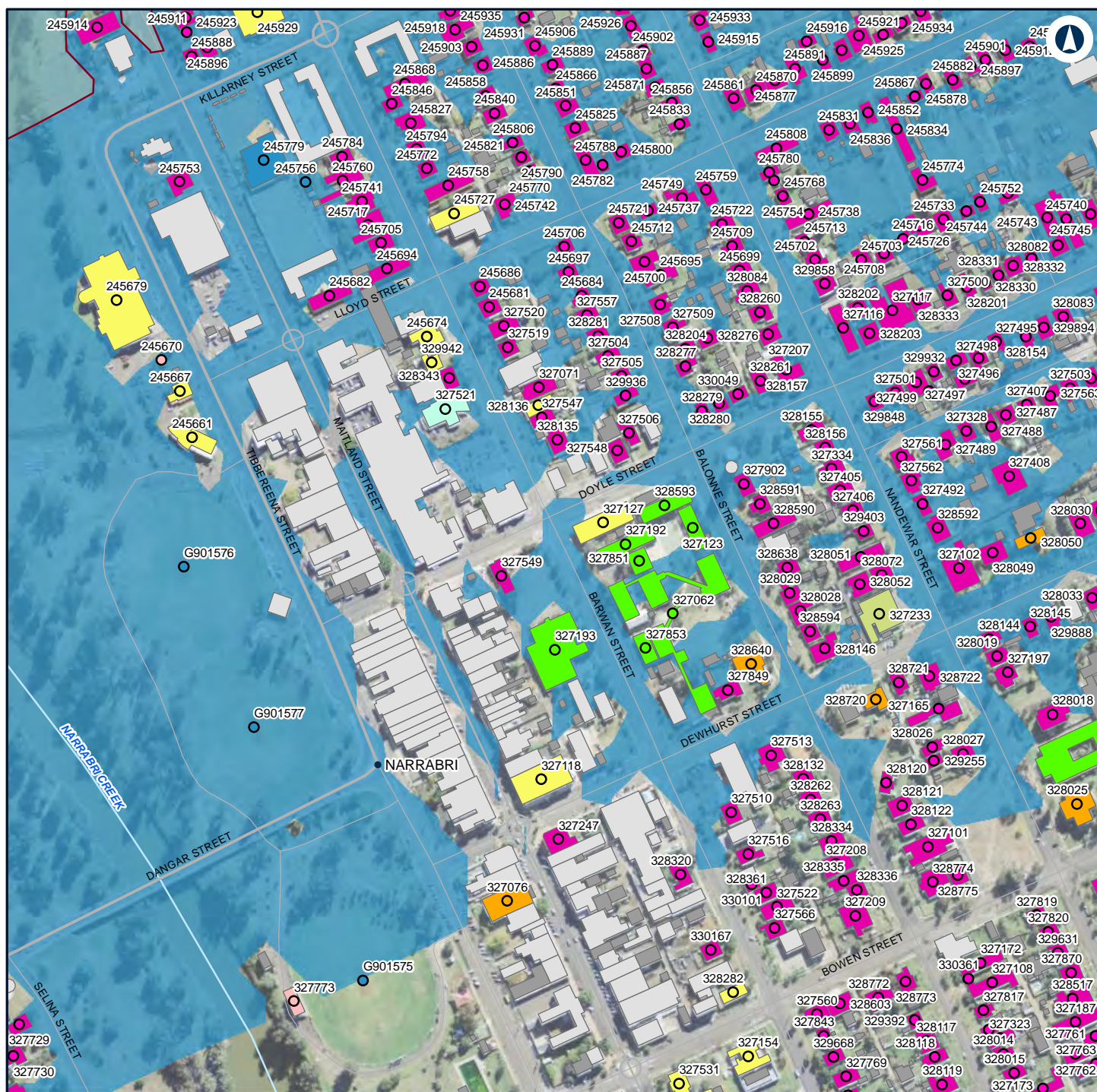
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## LEGEND

### Structure type

- |                       |                         |                      |
|-----------------------|-------------------------|----------------------|
| ● Active recreation   | ● Residential           | ● Educational        |
| ● Child care facility | ● Worship               | ● Health             |
| ● Community           | ● Active recreation     | ● Other              |
| ● Educational         | ● Child care facility   | ● Passive recreation |
| ● Health              | ● Commercial/Industrial | ● Residential        |
| ● Passive recreation  | ● Community             | ● Worship            |

### 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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0 0.1 0.2 Km

Coordinate System: GDA 1994 MGA Zone 55

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#### LEGEND

##### Structure type

- Residential
- Commercial/Industrial
- 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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0 0.1 0.2  
 Km

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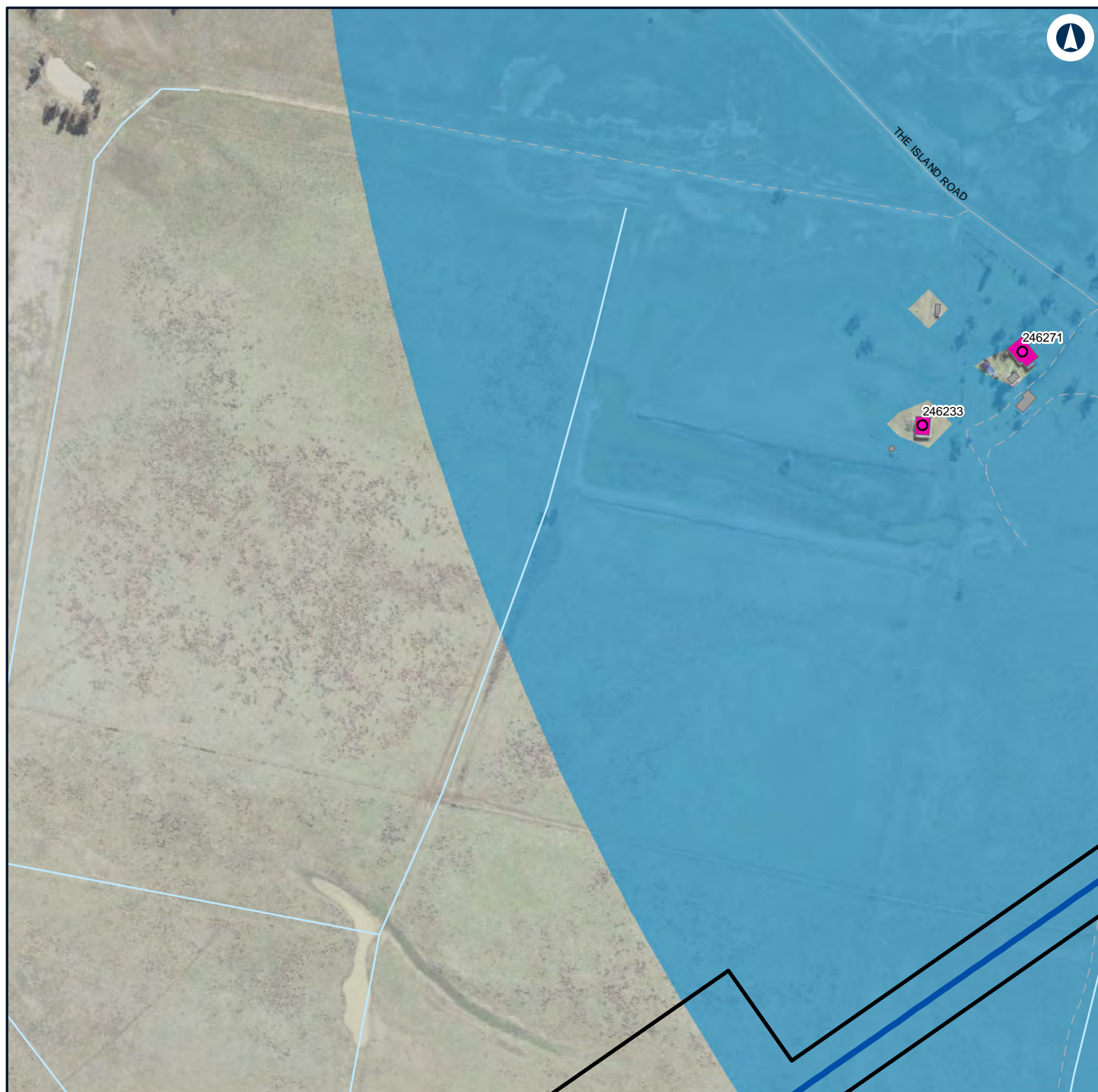
Scale: 1:5,000

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

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#### LEGEND

Alignment

Construction footprint

#### Structure type

Residential

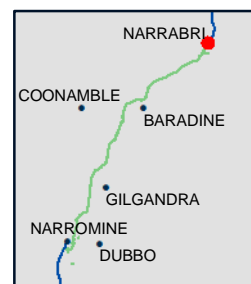
Other

Residential

#### Noise level (dBA L

Aeq 15 minute)

30 - 35



#### NARROMINE TO NARRABRI

#### Construction noise contours, Scenario ROAD03 - Road Earthworks

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0 0.1 0.2 Km

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Author: GHD

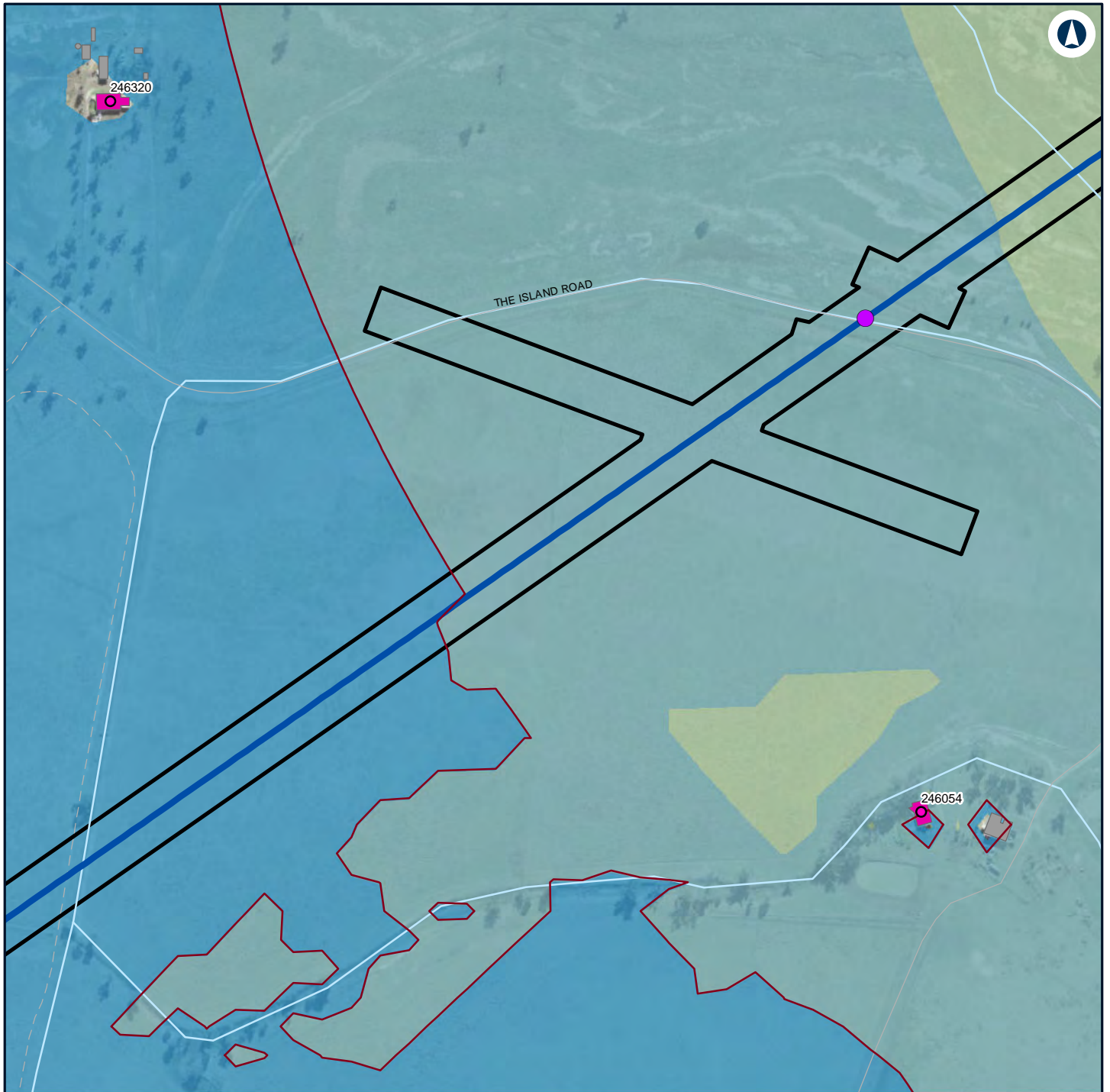
Scale: 1:5,000

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

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#### LEGEND

Alignment

Construction footprint

Structure type

Residential

Other

Residential

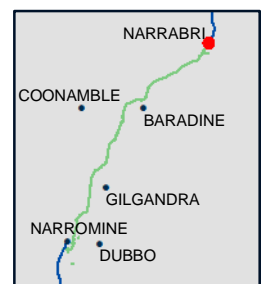
Noise level (dBA L

Aeq 15 minute)

30 - 35

35 - 40

40 - 45



#### NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 286 of 304

0 0.1 0.2 Km

Coordinate System: GDA 1994 MGA Zone 55

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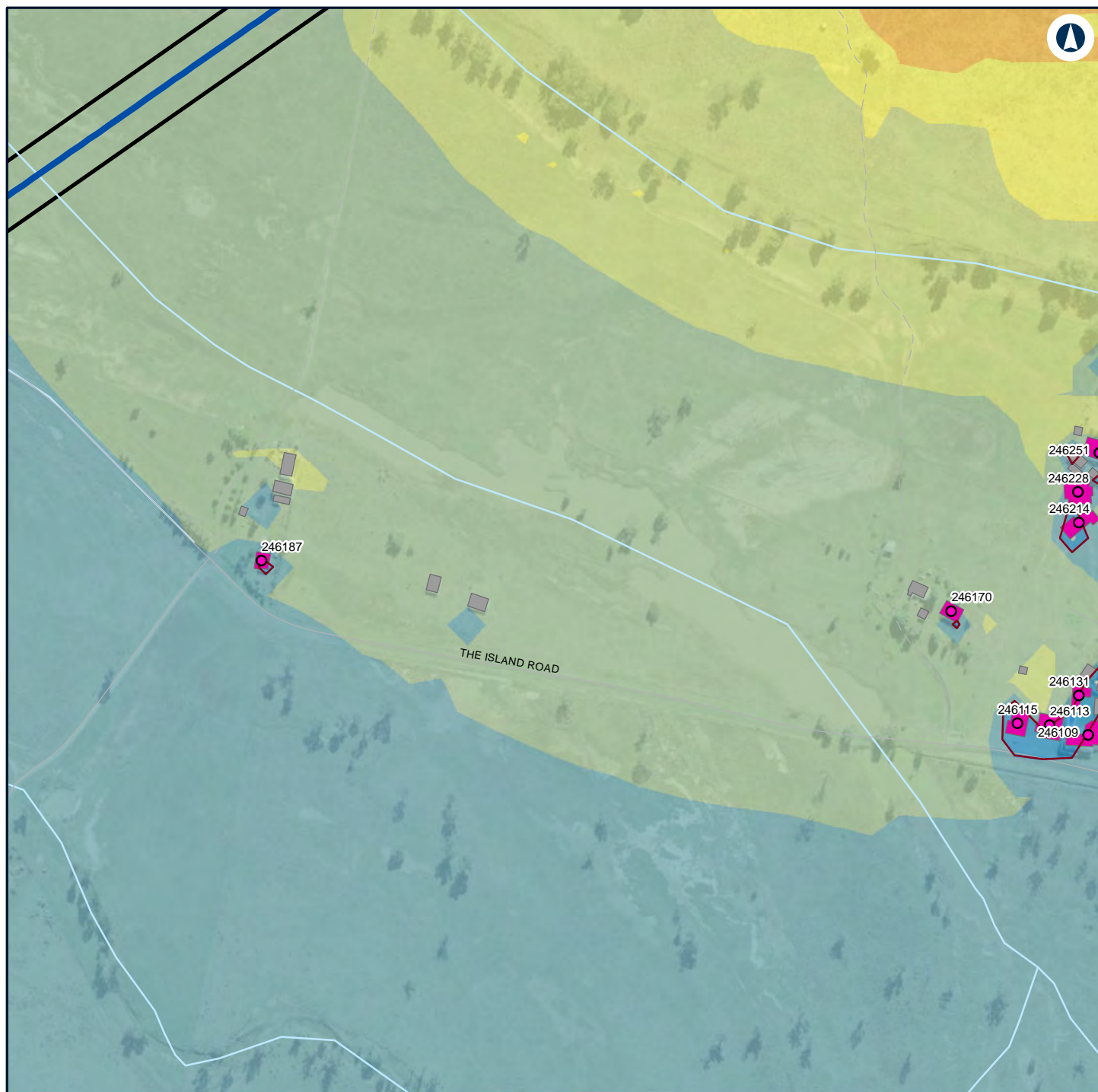
Author: GHD

Scale: 1:5,000

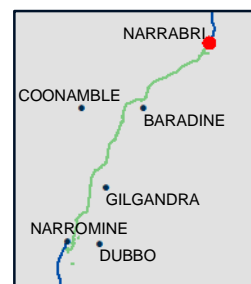
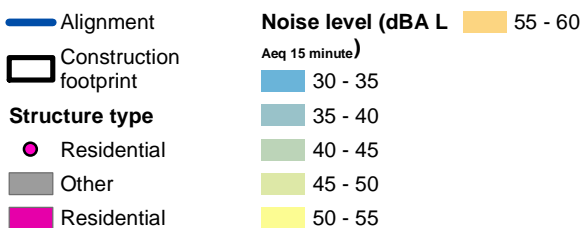
Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

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#### LEGEND



#### NARROMINE TO NARRABRI

#### Construction noise contours, Scenario ROAD03 - Road Earthworks

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Author: GHD

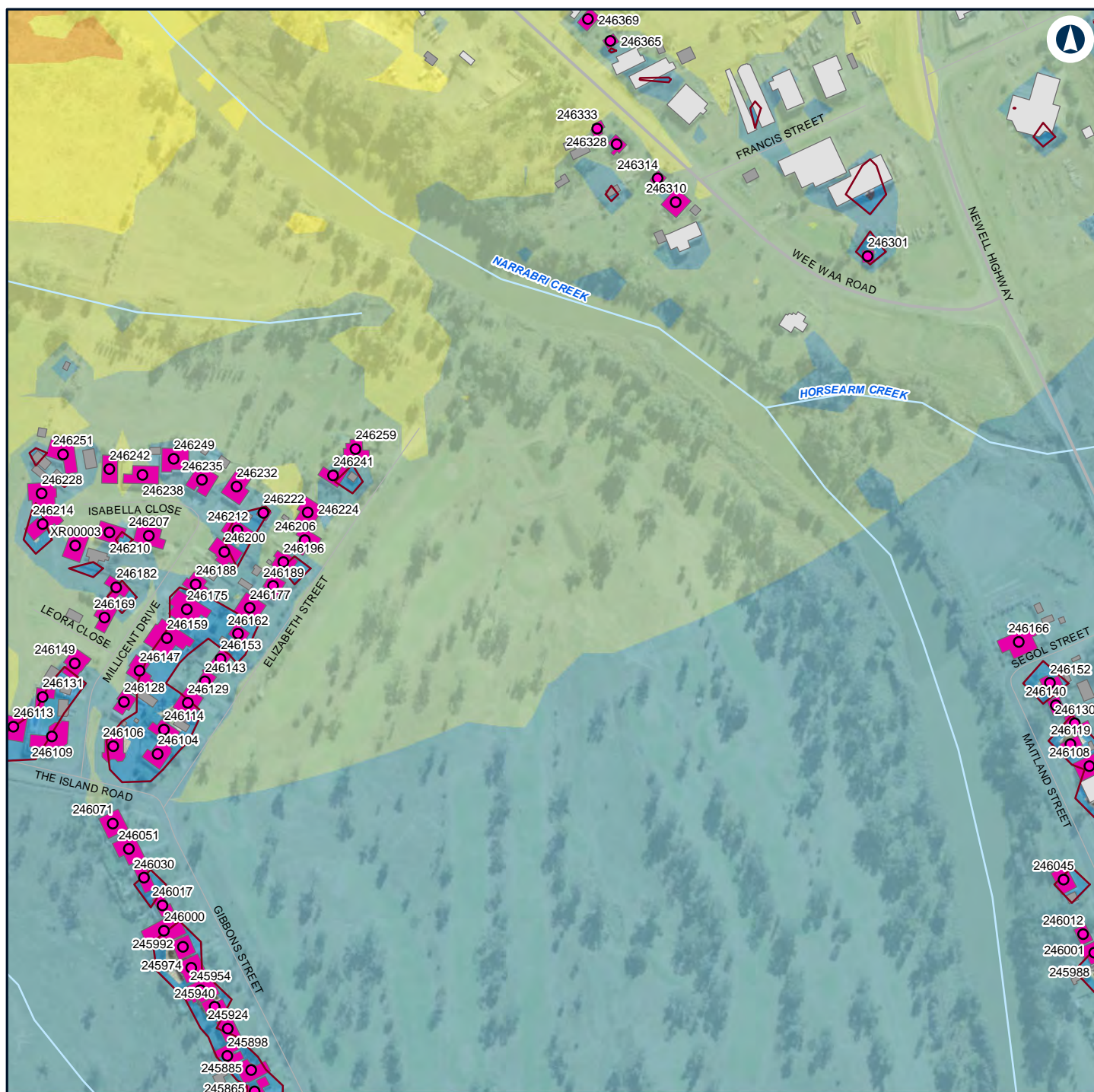
Scale: 1:5,000

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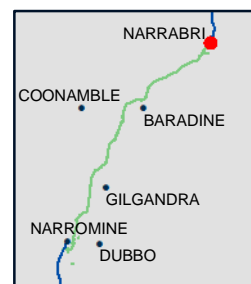
## LEGEND

### Structure type

- Residential
- Commercial/Industrial
- Other
- Residential

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

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



## NARRABINE TO NARRABRI

## Construction noise contours, Scenario ROAD03 - Road Earthworks

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0 0.1 0.2 Km

Coordinate System: GDA 1994 MGA Zone 55

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Author: GHD

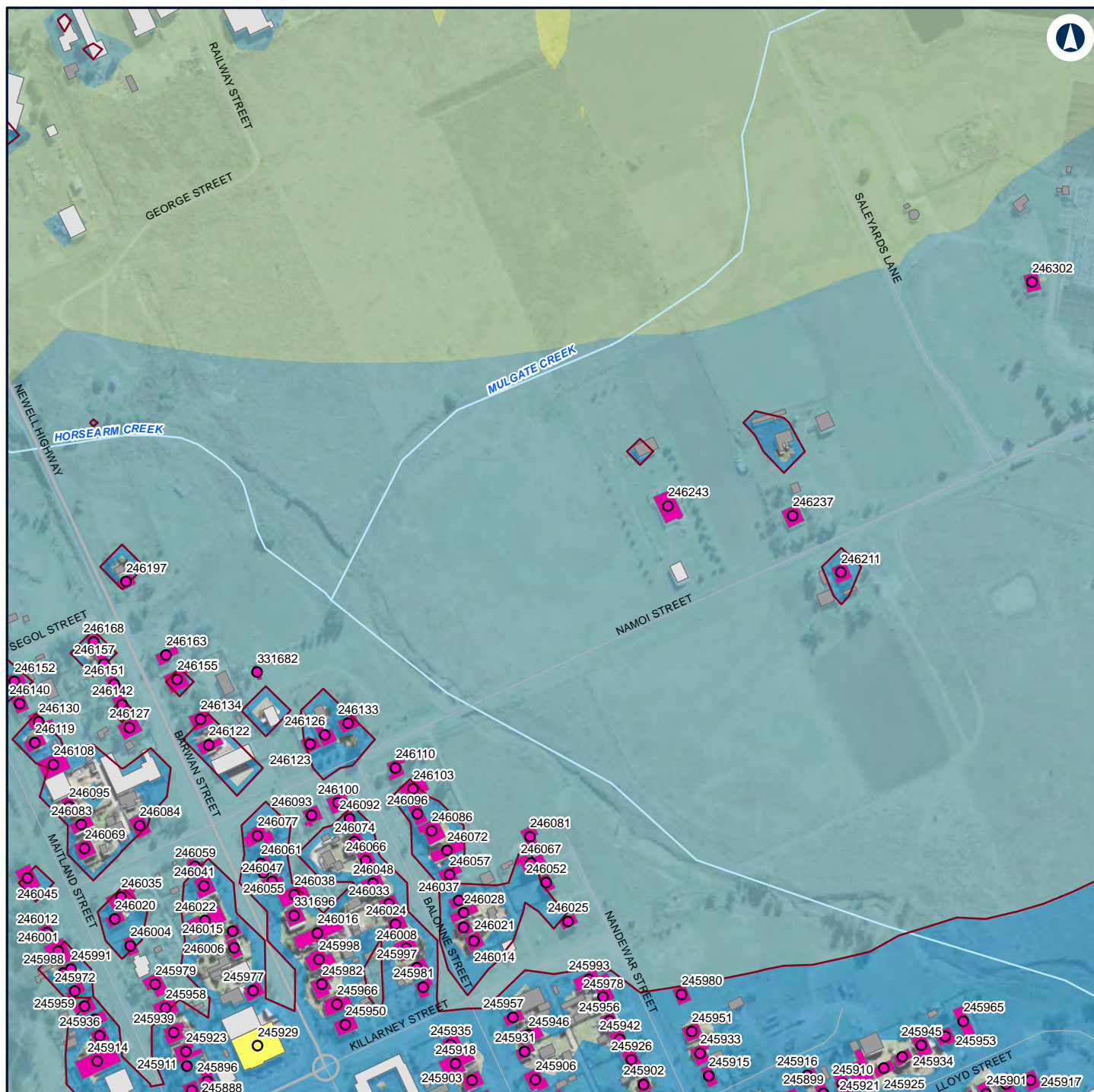
Scale: 1:5,000

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

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## LEGEND

### Structure type

- Community
- Residential
- Commercial/Industrial
- Community
- 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

Appendix G - Page 289 of 304

0 0.1 0.2  
Km

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## LEGEND

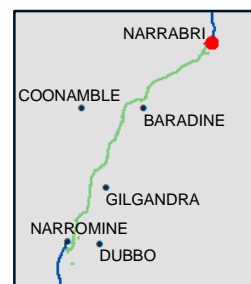
### Structure type

- Passive recreation
- Residential
- Commercial/Industrial
- Other
- Passive recreation

### 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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0 0.1 0.2  
Km

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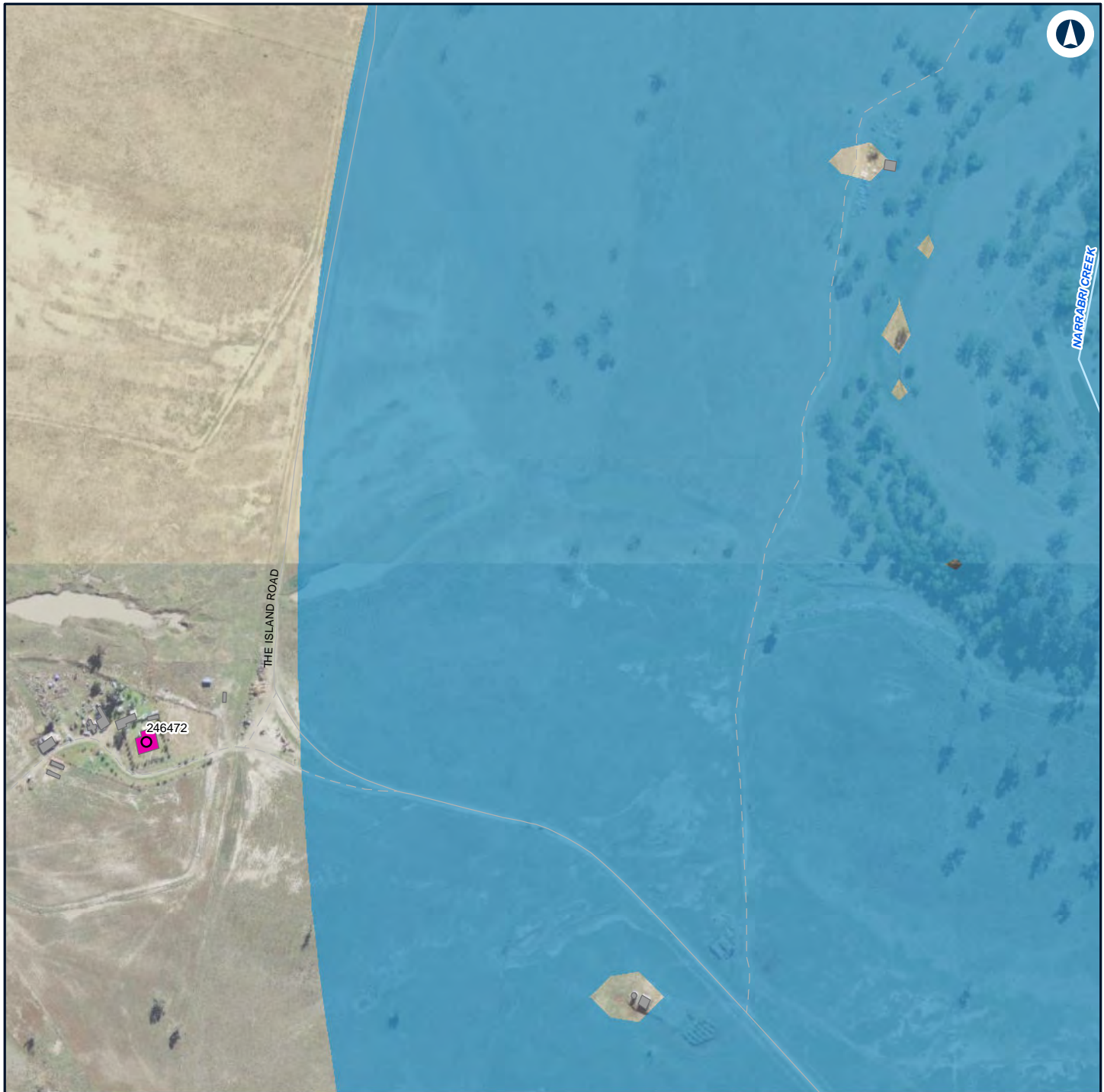
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Scale: 1:5,000

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



## NARROMINE TO NARRABRI

## Construction noise contours, Scenario ROAD03 - Road Earthworks

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0 0.1 0.2  
Km

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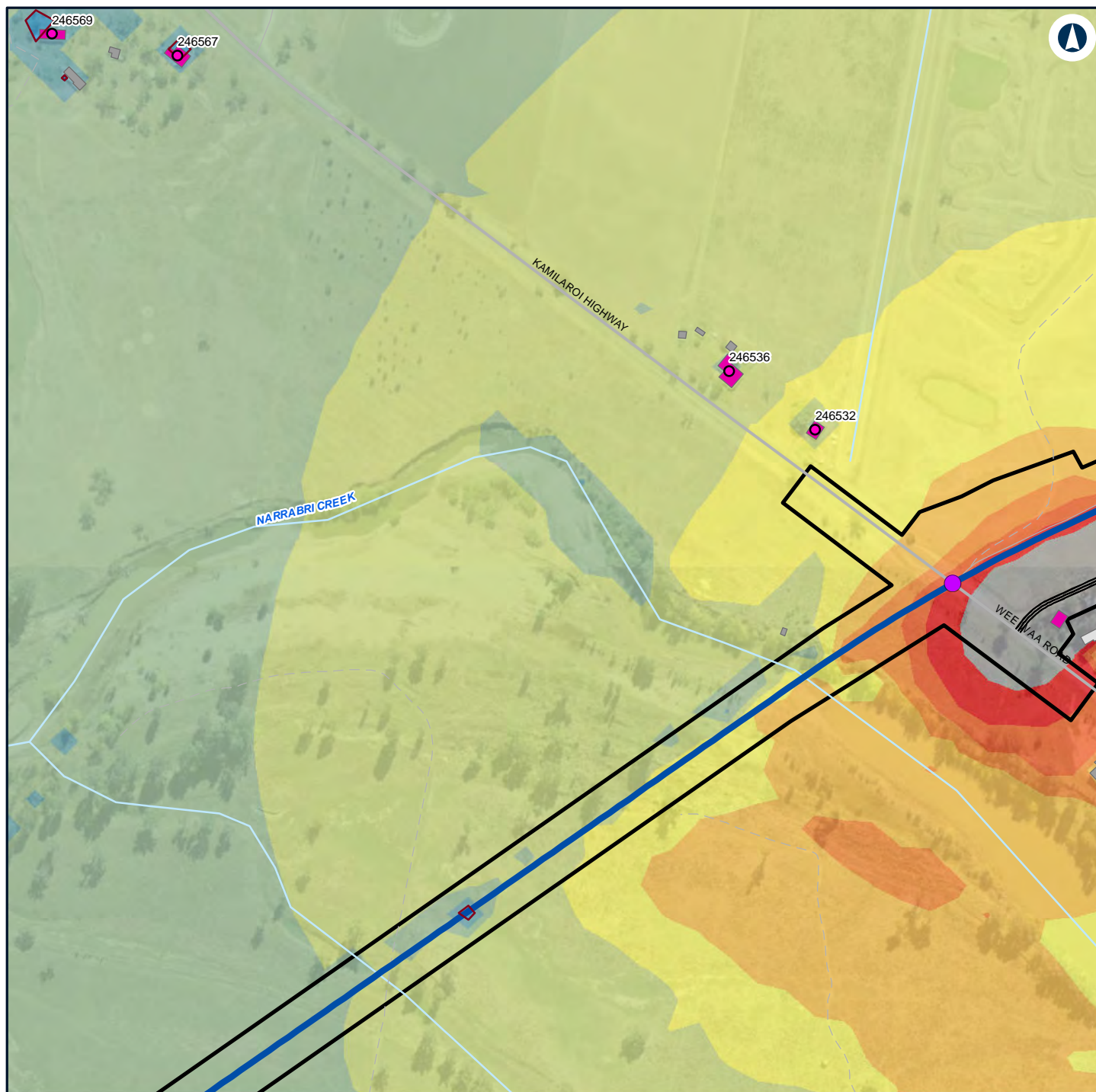
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

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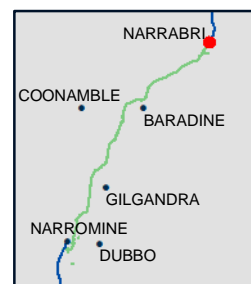
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## LEGEND

	Alignment		Residential		45 - 50
	Road design string		Residential		50 - 55
	Construction footprint		Residential		55 - 60
	Residential		Residential		60 - 65
	Commercial/Industrial		Residential		65 - 70
	Residential		Residential		70 - 75
	Residential		Residential		> 75
	Residential		Residential		> 75



## NARROMINE TO NARRABRI

## Construction noise contours, Scenario ROAD03 - Road Earthworks

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0 0.1 0.2 Km

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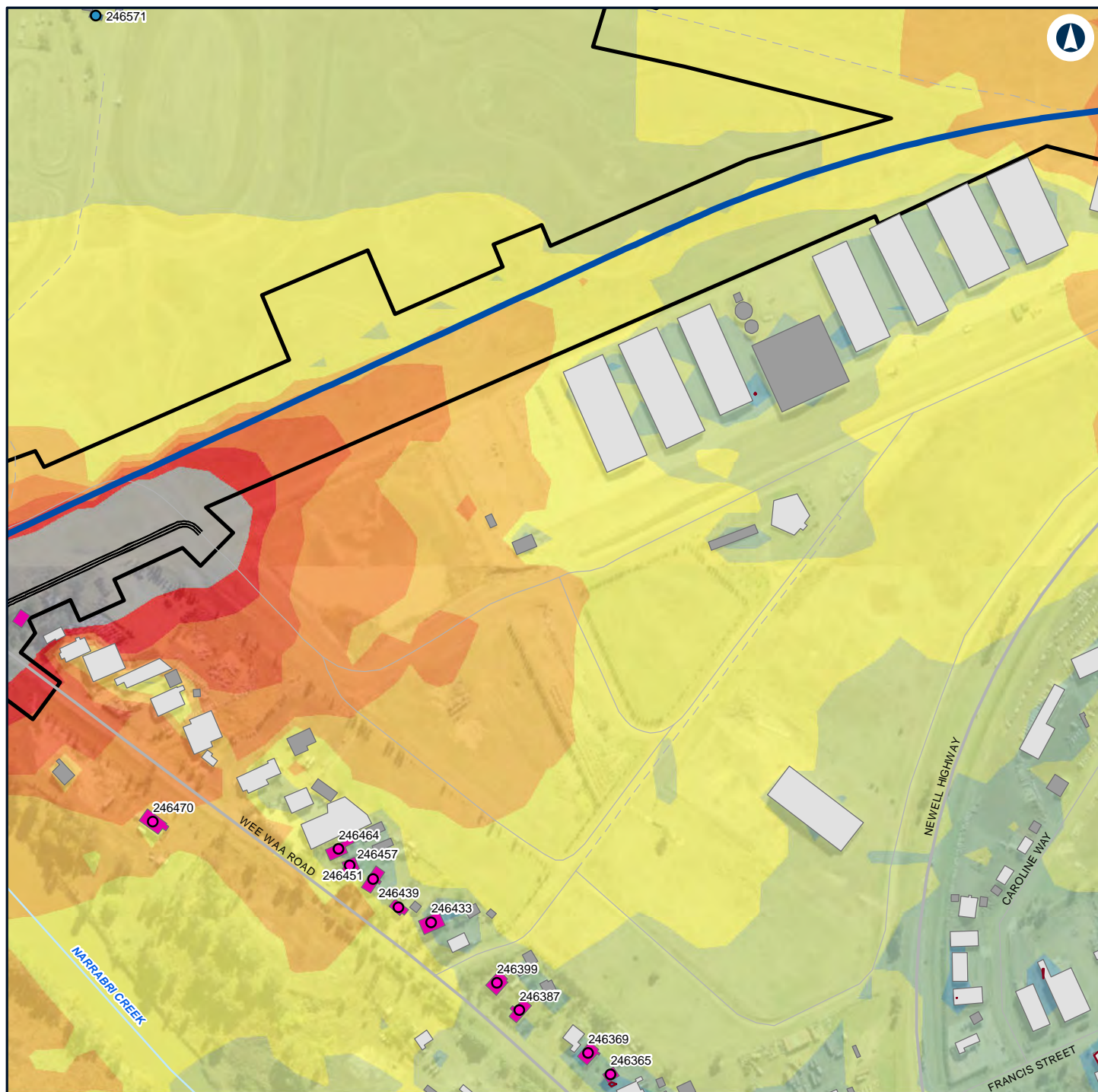
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## LEGEND

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 Aeq 15 minute)	55 - 60	
Residential		60 - 65	
		65 - 70	
		30 - 35	



## NARROMINE TO NARRABRI

## Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 293 of 304

0 0.1 0.2 Km

Coordinate System: GDA 1994 MGA Zone 55

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## LEGEND

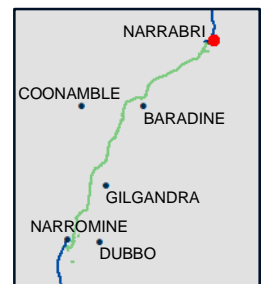
### Structure type

- 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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0 0.1 0.2  
Km

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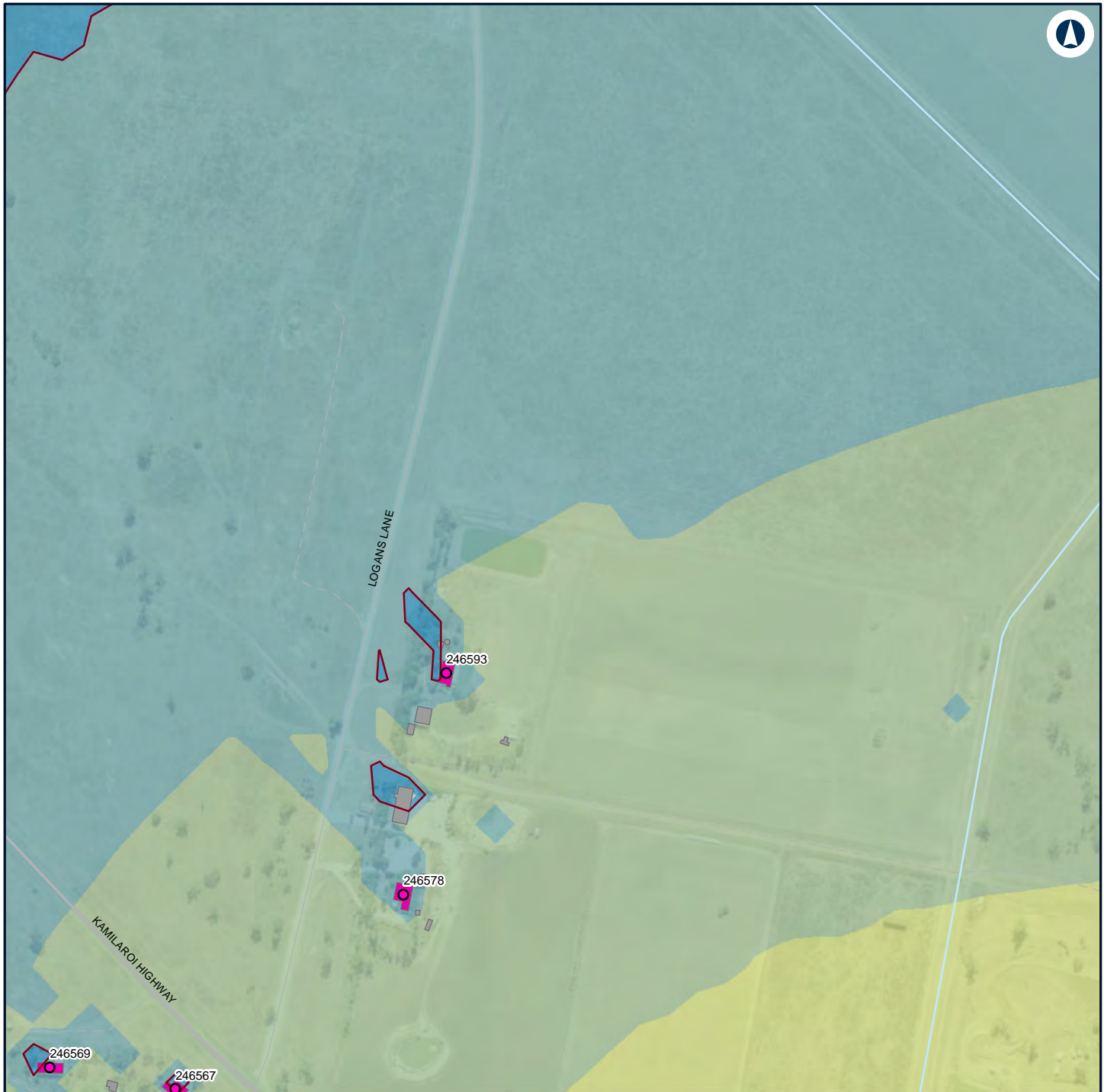
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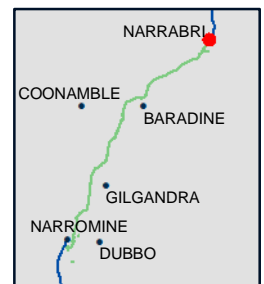
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#### LEGEND

<b>Structure type</b>	35 - 40
● Residential	40 - 45
■ Other	45 - 50
■ Residential	
<b>Noise level (dBA L Aeq 15 minute)</b>	
■	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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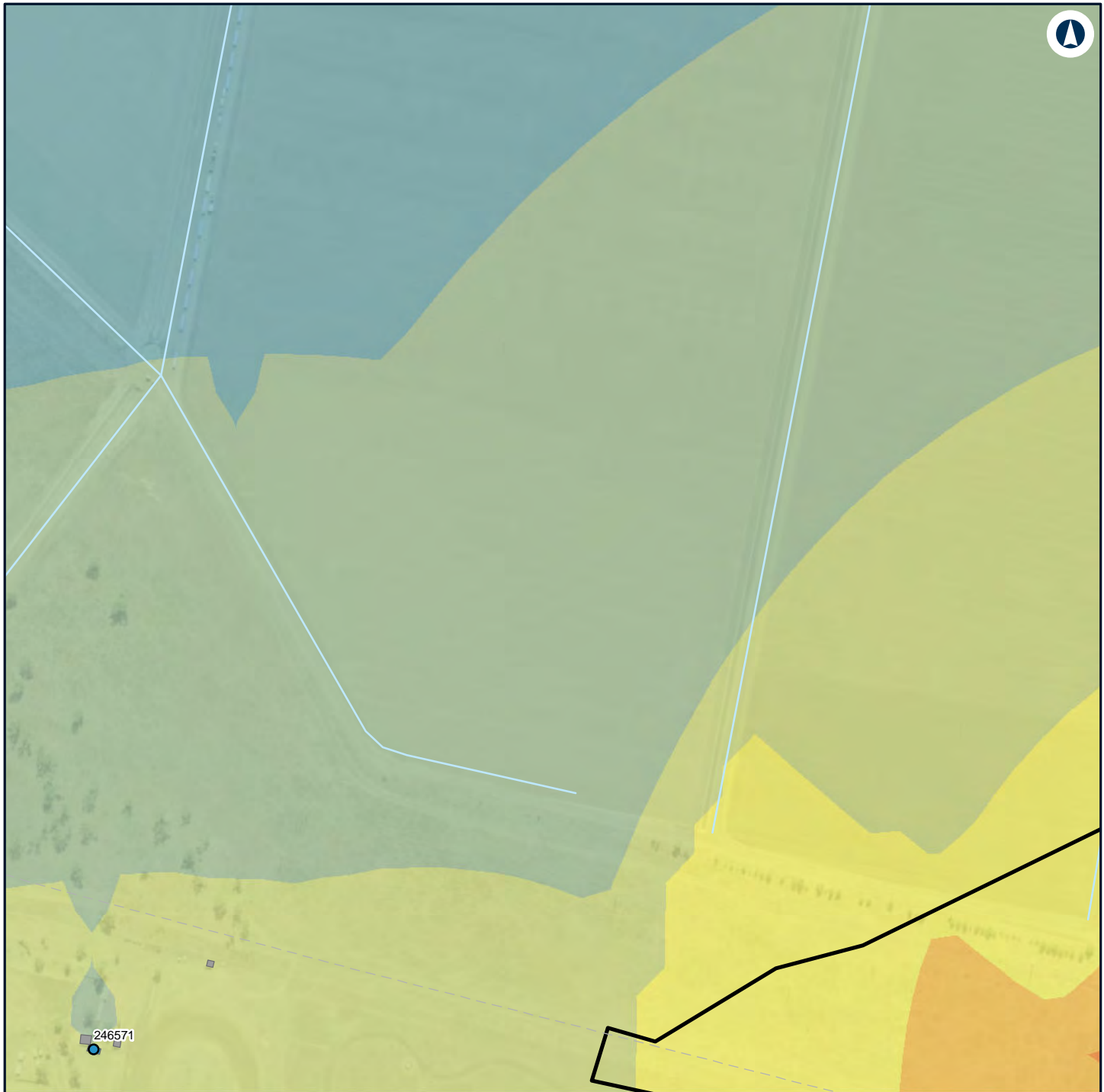
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

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#### LEGEND

Construction footprint

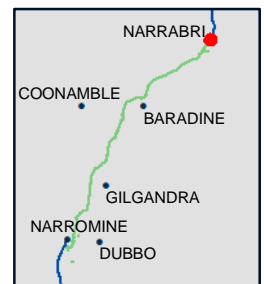
#### Structure type

- Active recreation
- Active recreation
- Other

**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

Appendix G - Page 296 of 304

0 0.1 0.2 Km

Coordinate System: GDA 1994 MGA Zone 55

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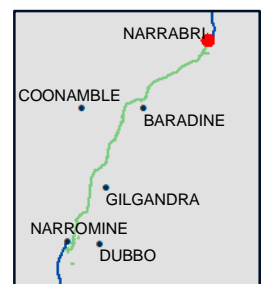
### Structure type

- 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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0 0.1 0.2  
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 16/07/2020

Paper: A4

Author: GHD

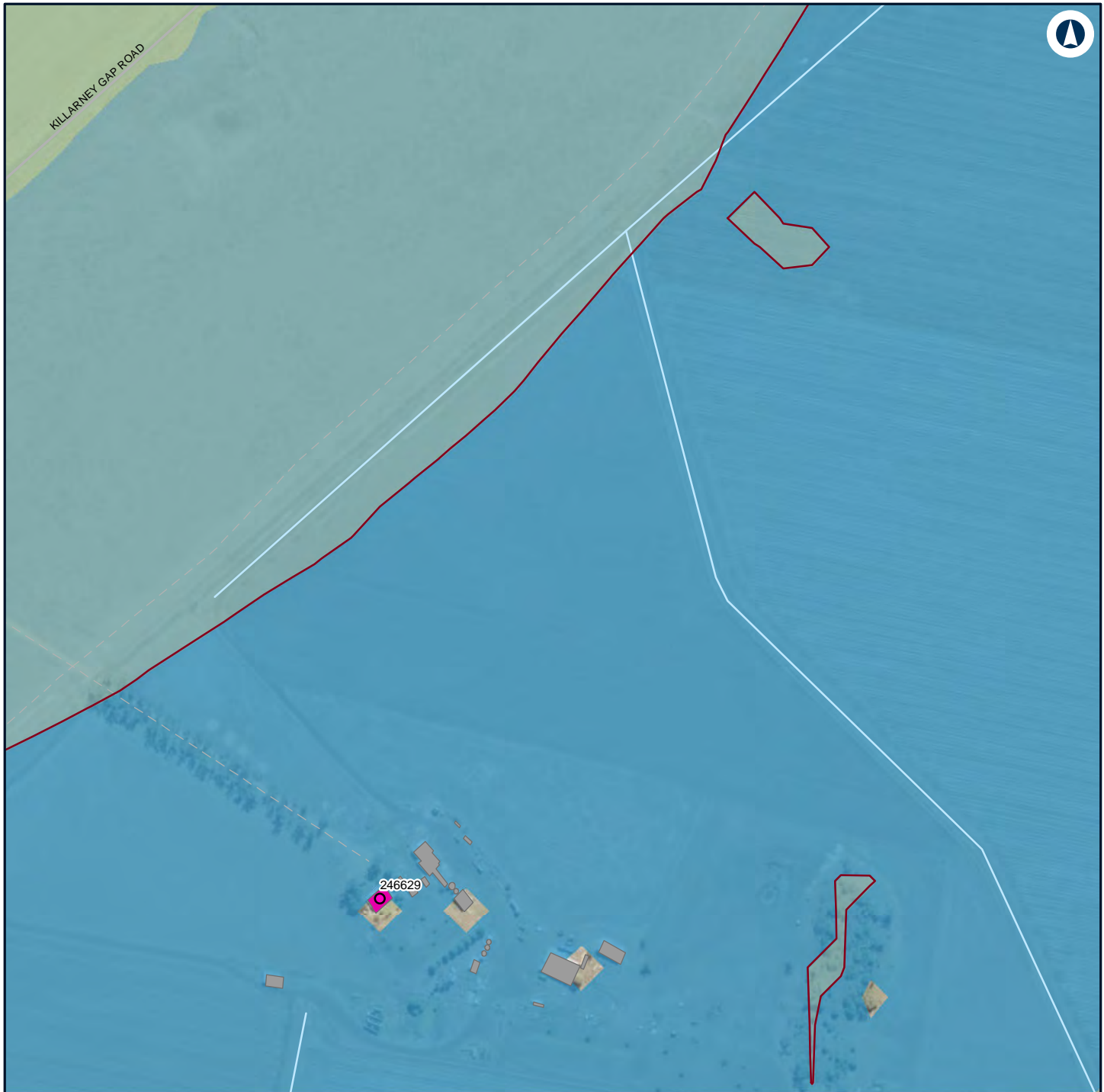
Scale: 1:5,000

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

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#### LEGEND

- Structure type**
- Residential
  - Residential
  - Other
  - 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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0 0.1 0.2  
Km

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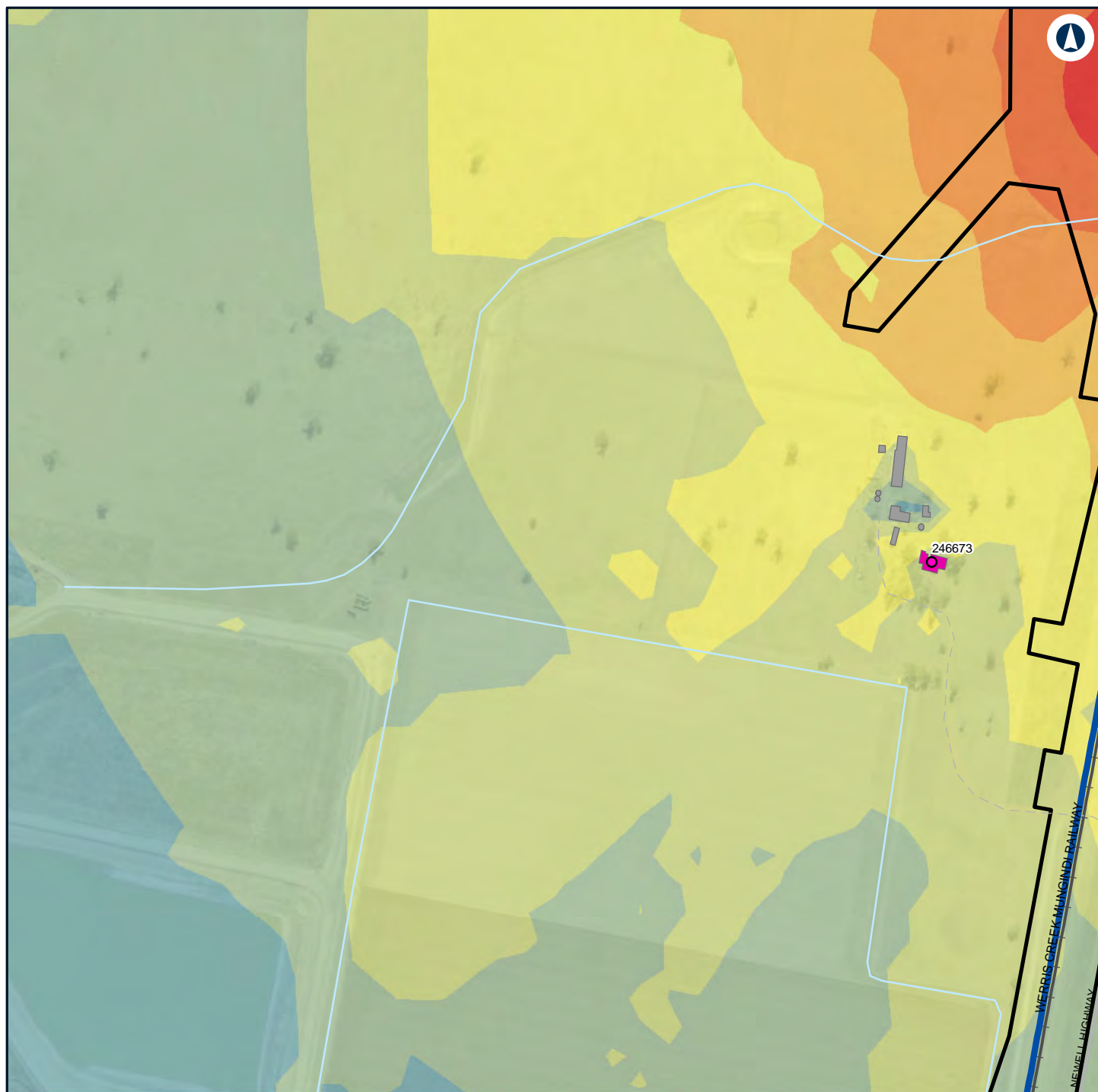
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#### LEGEND

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

60 - 65

65 - 70

70 - 75



#### NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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0 0.1 0.2  
Km

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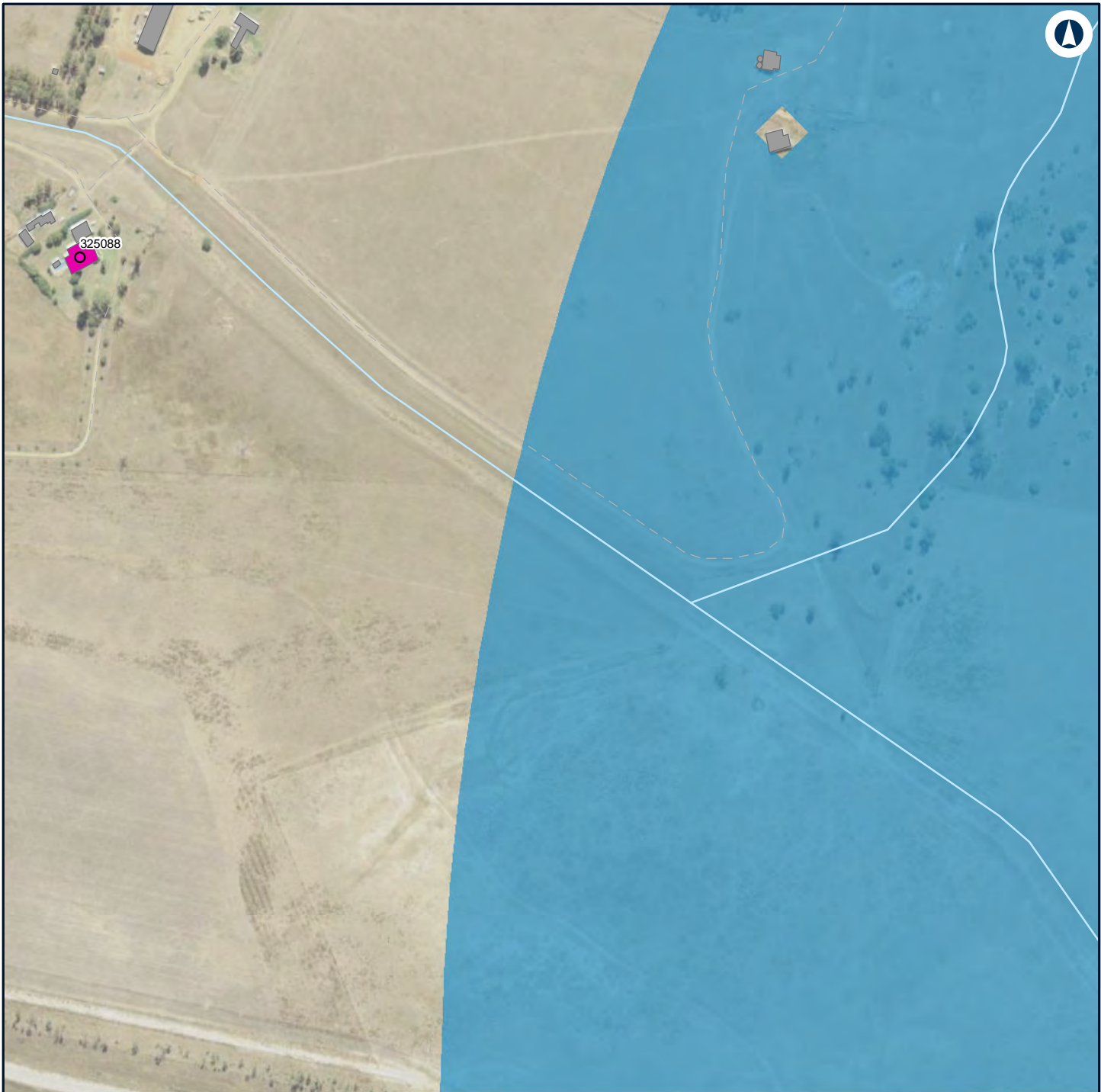
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**LEGEND**

**Structure type**

- Residential
- Other
- Residential

**Noise level (dBA L**

Aeq 15 minute)

- 30 - 35



00.10.2Km

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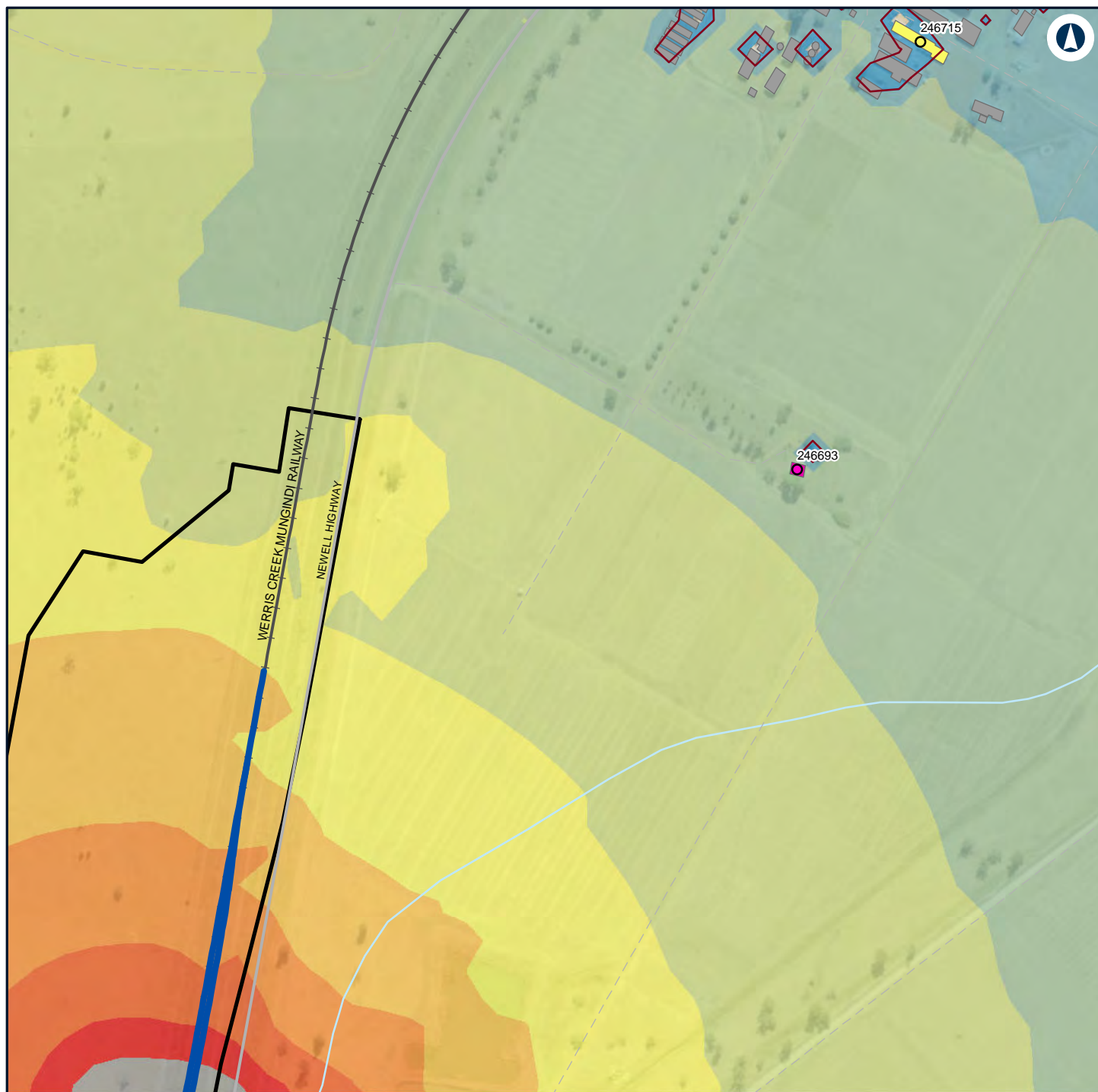
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#### LEGEND

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



#### NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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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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0 0.1 0.2  
Km

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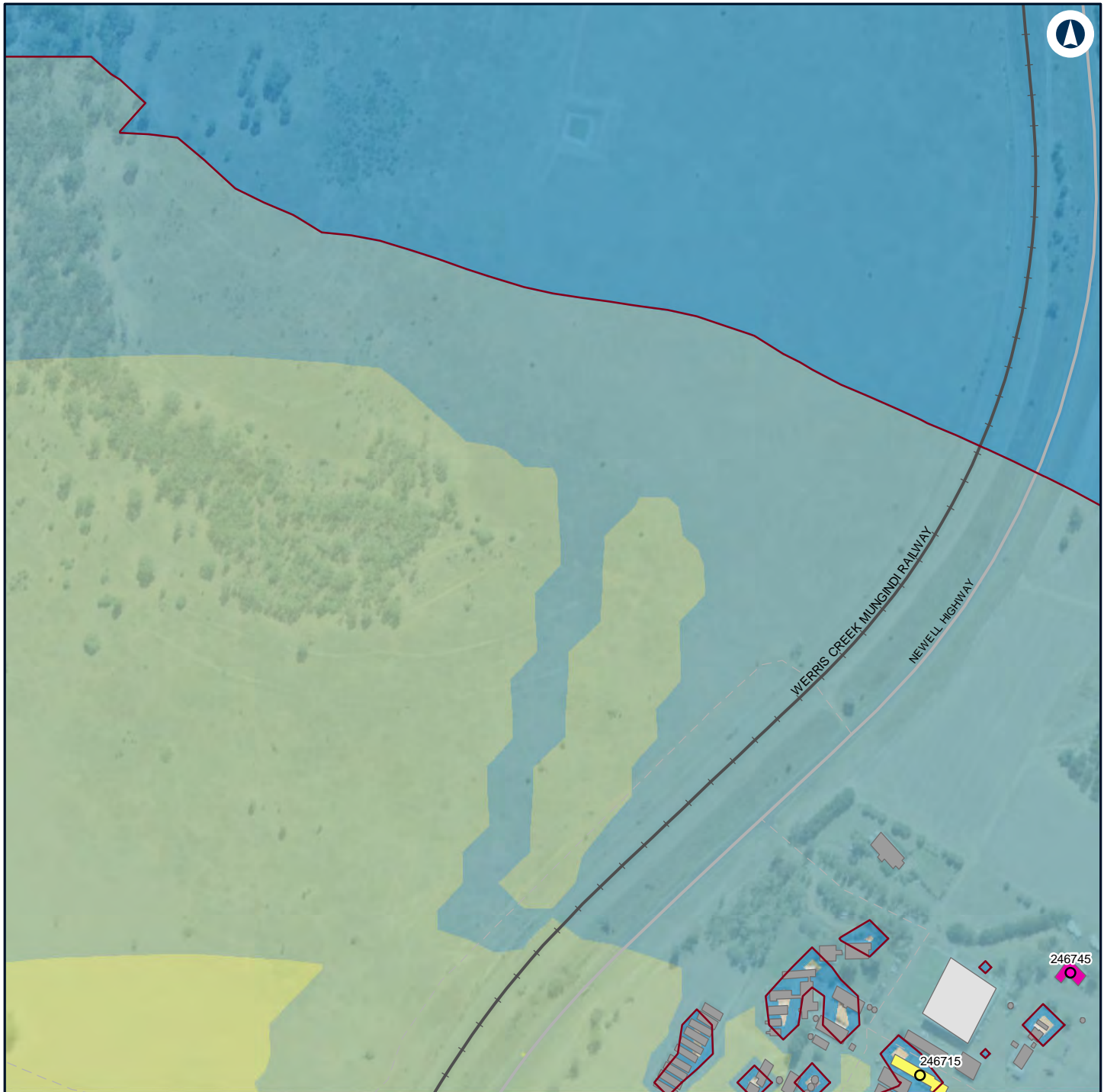
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#### LEGEND

##### Structure type

- Community
- Residential
- Commercial/Industrial
- Community
- Other

##### 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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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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0 0.1 0.2  
Km

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