

TECHNICAL REPORT

INLAND
RAIL 

8

Noise and vibration assessment – construction and other operations

PART 2 OF 7

Appendix F

NARROMINE TO NARRABRI ENVIRONMENTAL IMPACT STATEMENT

ARTC

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

TECHNICAL REPORT

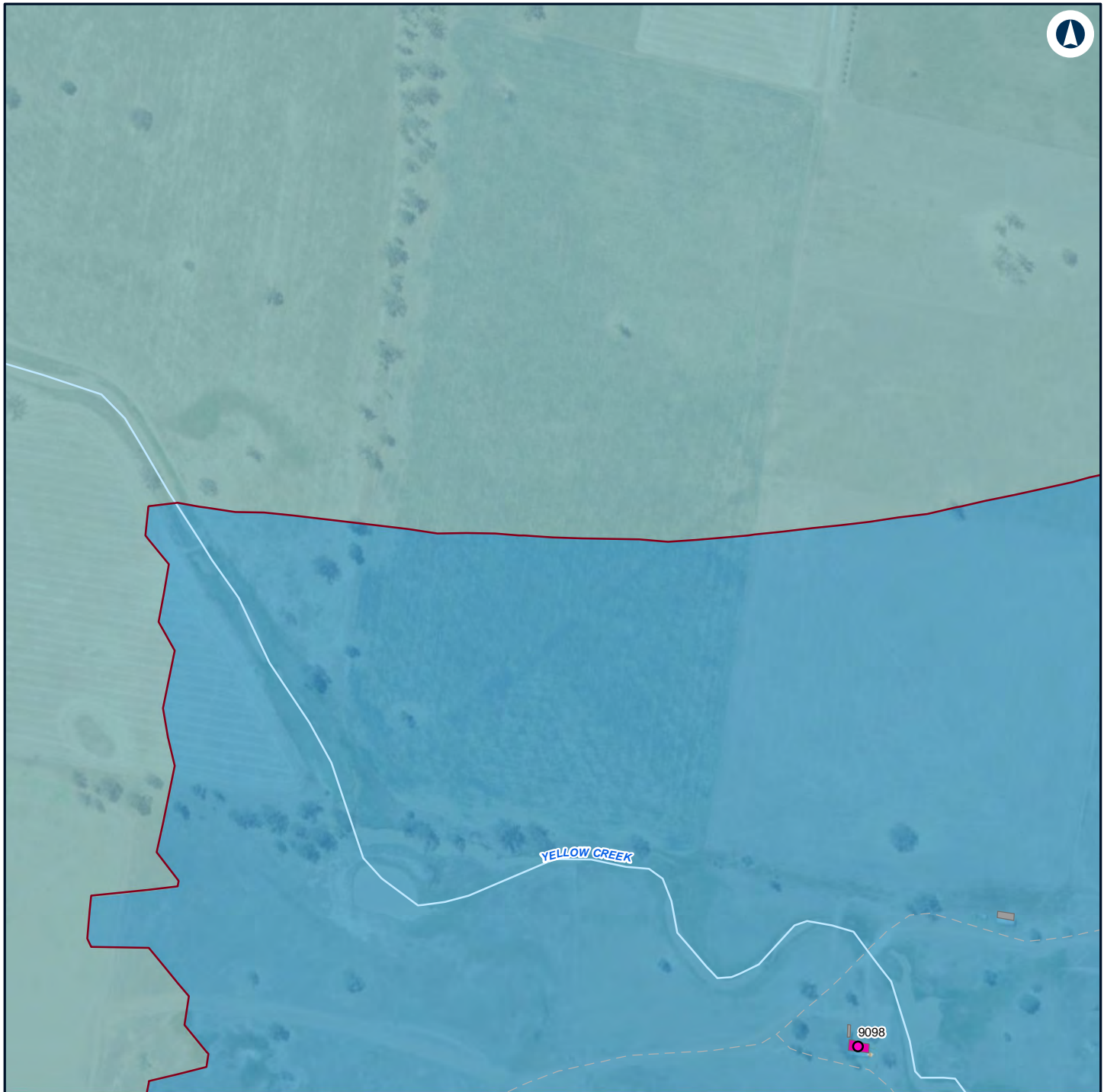
8

Noise and vibration assessment – construction and other operations

Appendix F Construction noise contours: scenario RAIL03 – stripping topsoil

NARROMINE TO NARRABRI ENVIRONMENTAL IMPACT STATEMENT





LEGEND

Structure type

Residential

Other

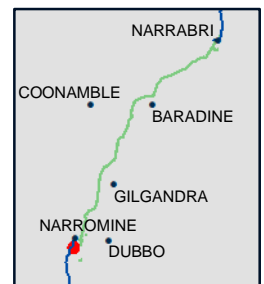
Residential

Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

30 - 35

35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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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

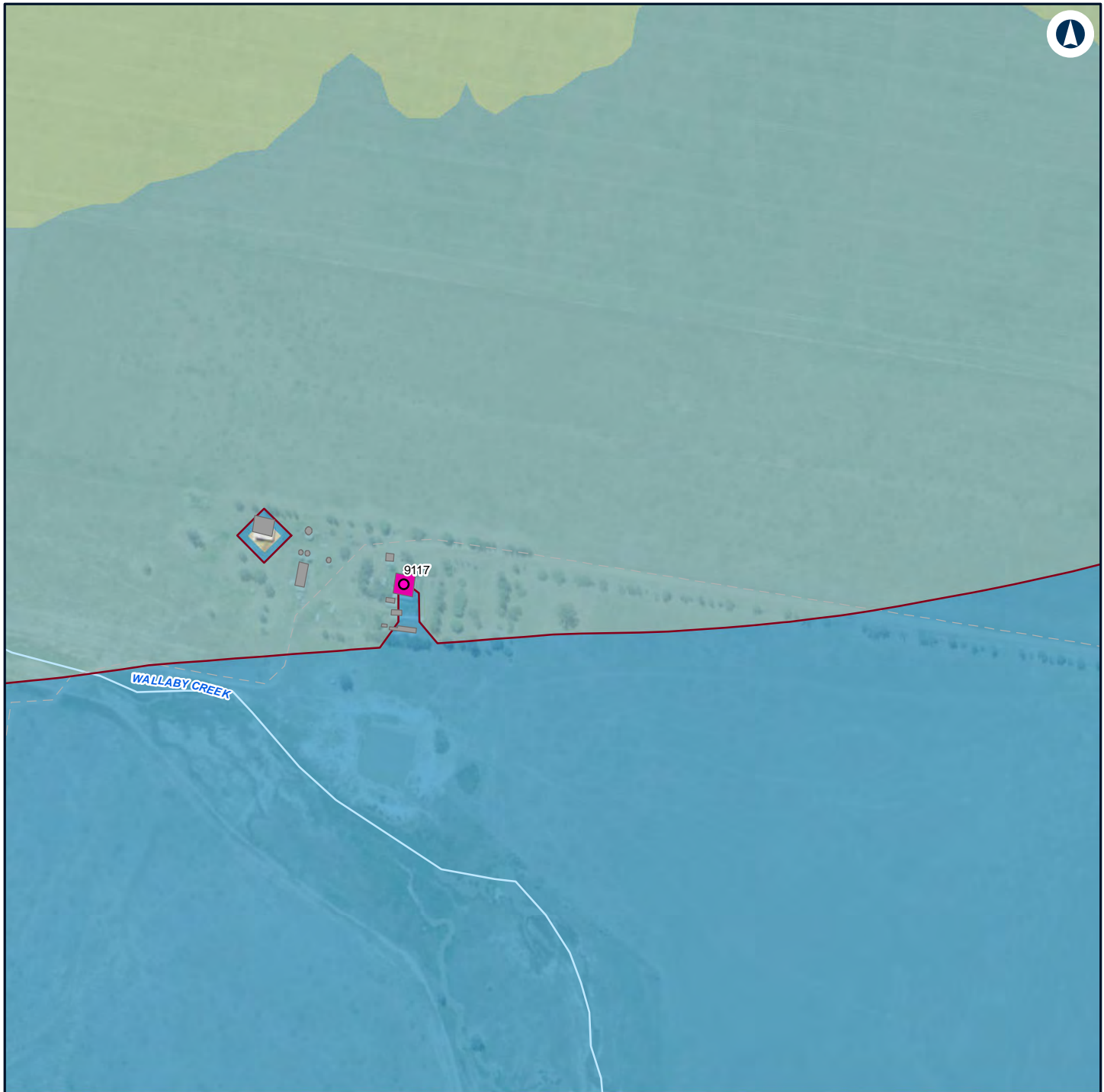
Author: GHD

Scale: 1:5,000

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

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LEGEND

Structure type

● Residential

■ Other

■ Residential

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40

■ 40 - 45



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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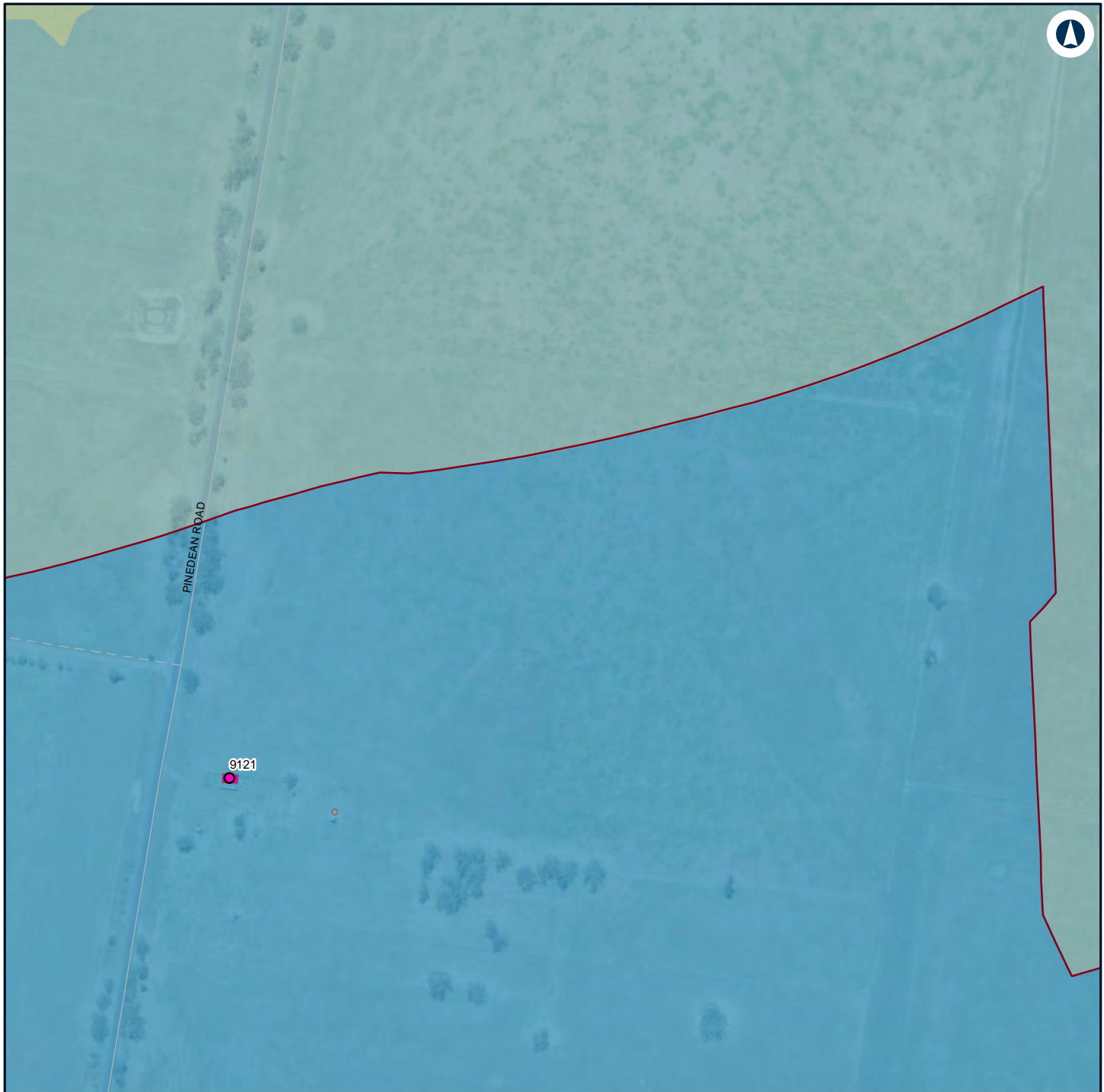
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LEGEND

Structure type

● Residential

■ Other

■ Residential

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40

■ 40 - 45



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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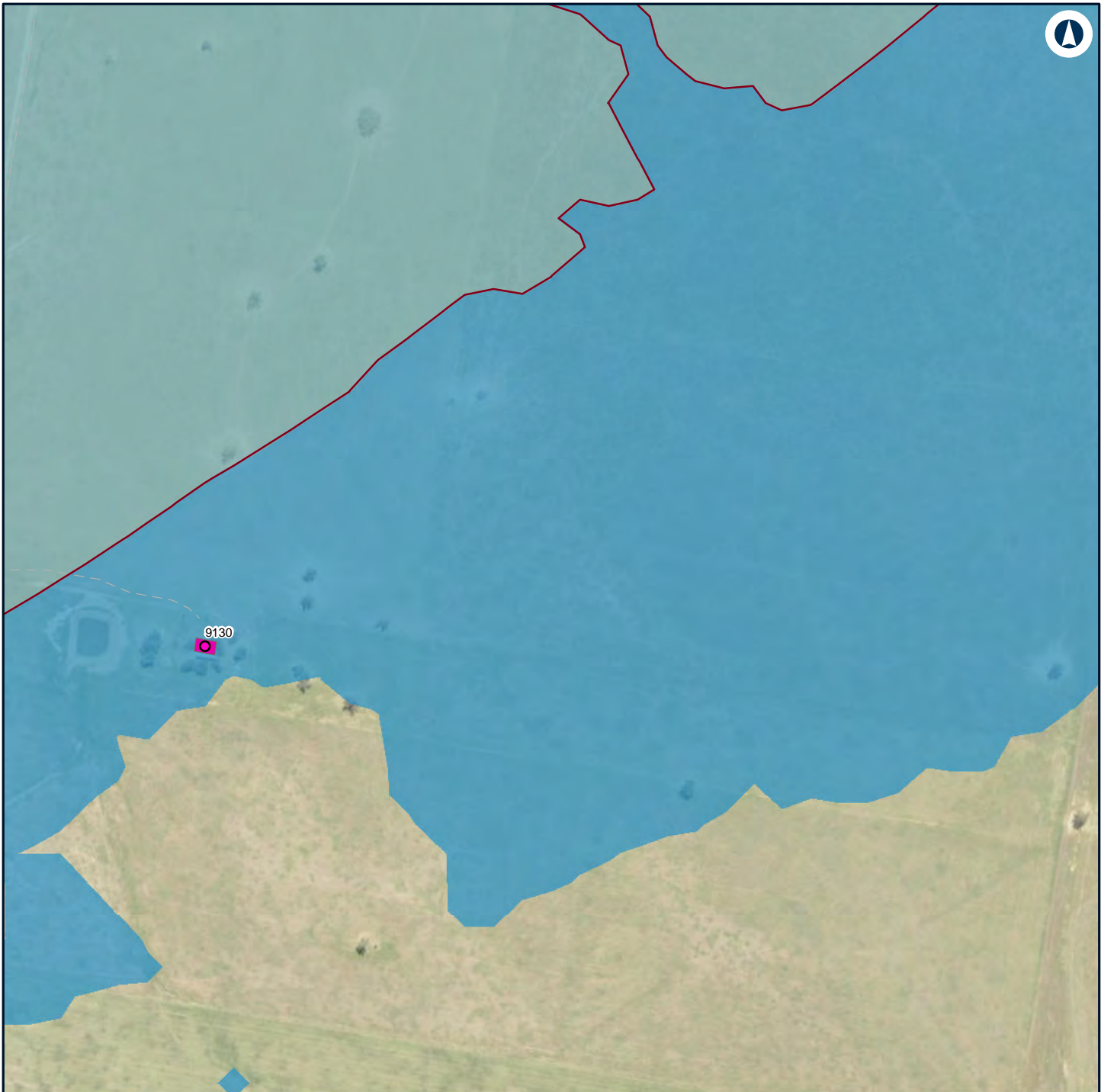
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LEGEND

Structure type

- Residential
- Residential
- Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

- 30 - 35
- 35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2 Km

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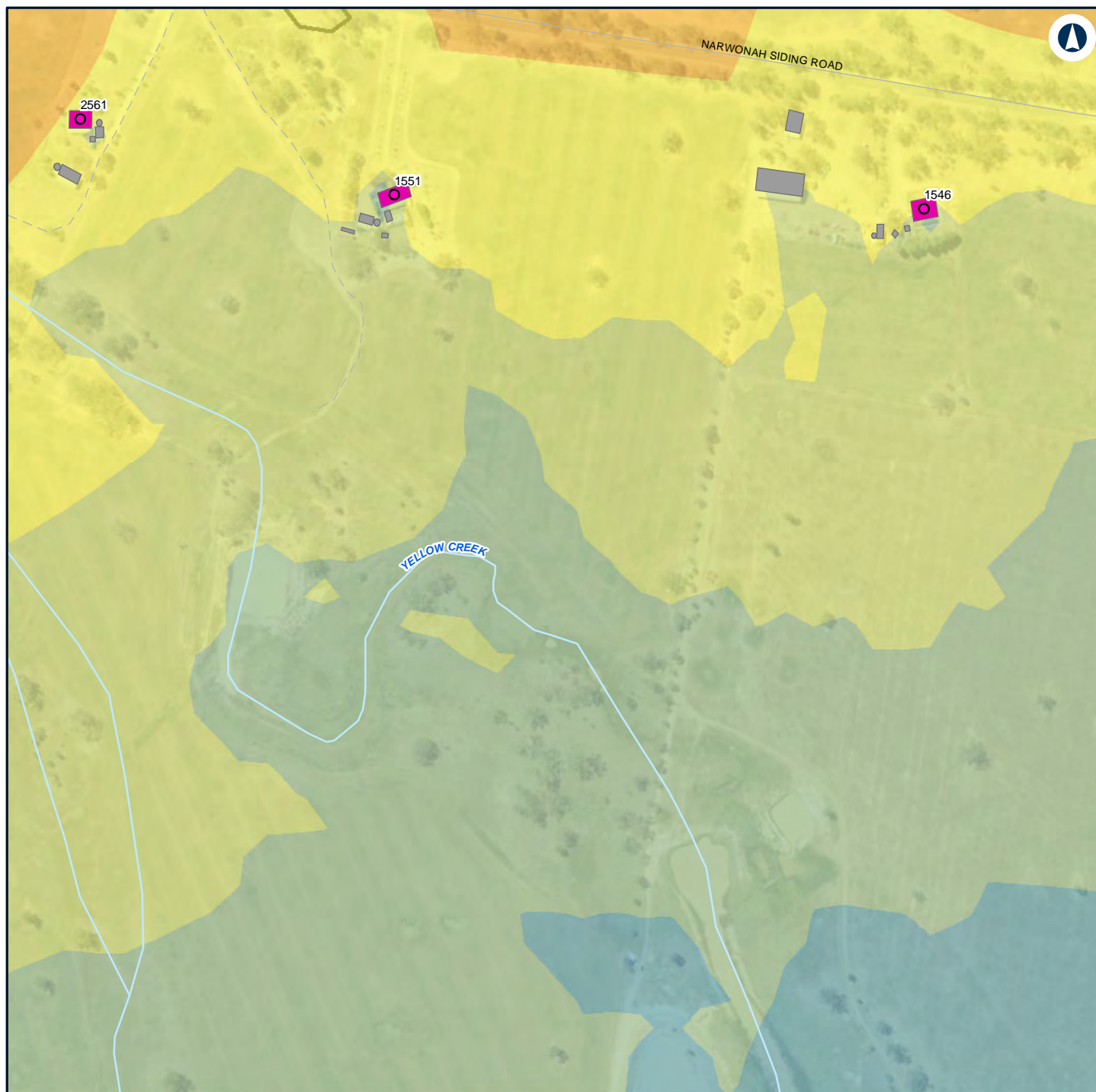
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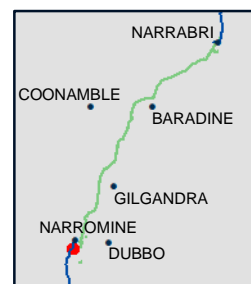
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LEGEND

	Construction footprint		40 - 45
Structure type			45 - 50
	Residential		50 - 55
	Other		55 - 60
	Residential		
Noise level (dBA L_{Aeq} 15 minute)			
	35 - 40		



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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LEGEND

Structure type

● Residential

■ Other

■ Residential

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

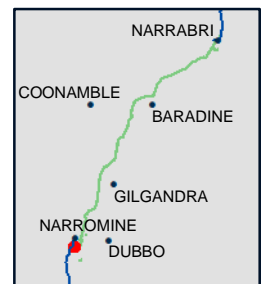
■ 30 - 35

■ 35 - 40

■ 40 - 45

■ 45 - 50

■ 50 - 55



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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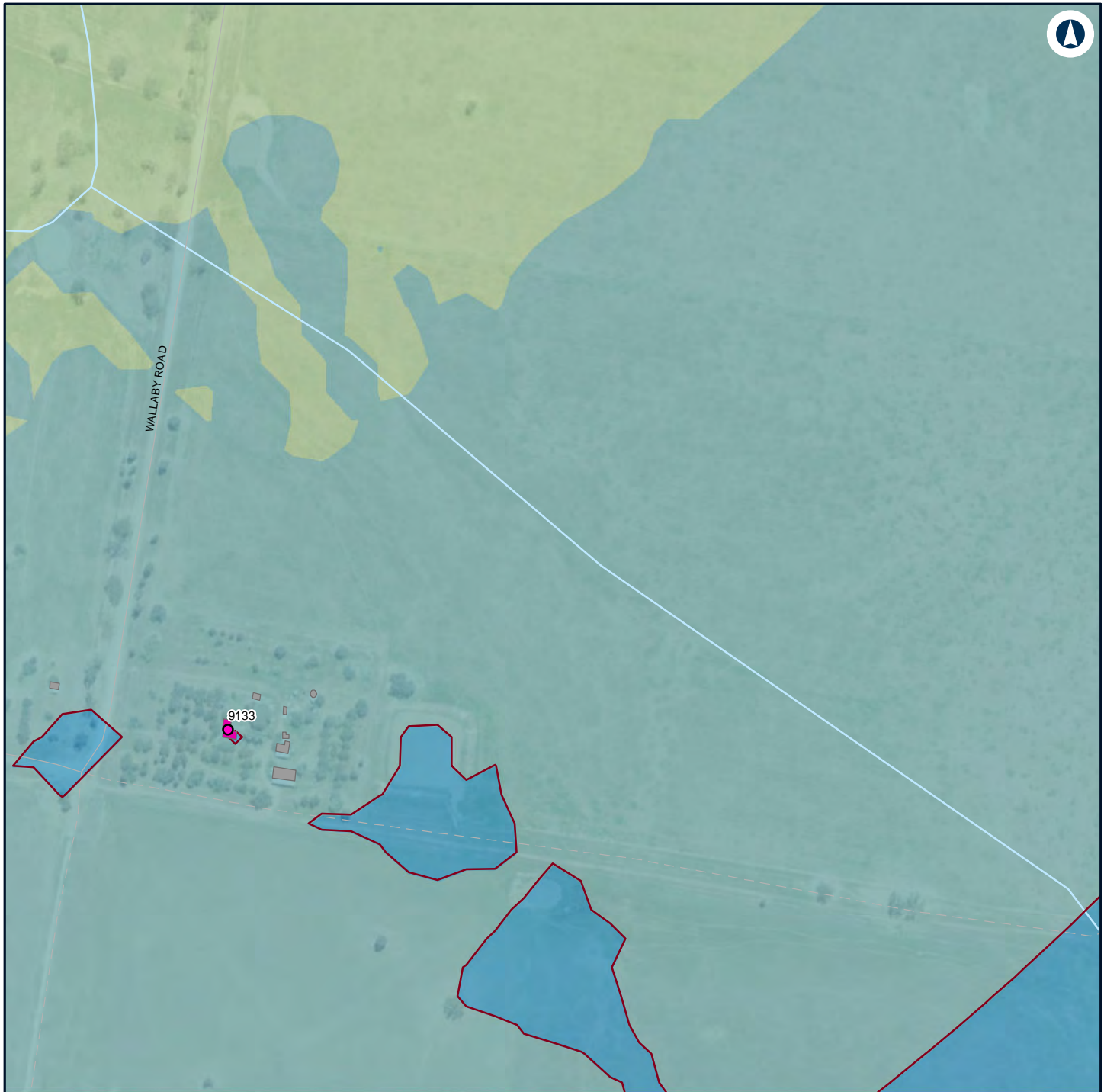
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LEGEND

Structure type

● Residential

■ Other

■ Residential

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40

■ 40 - 45



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
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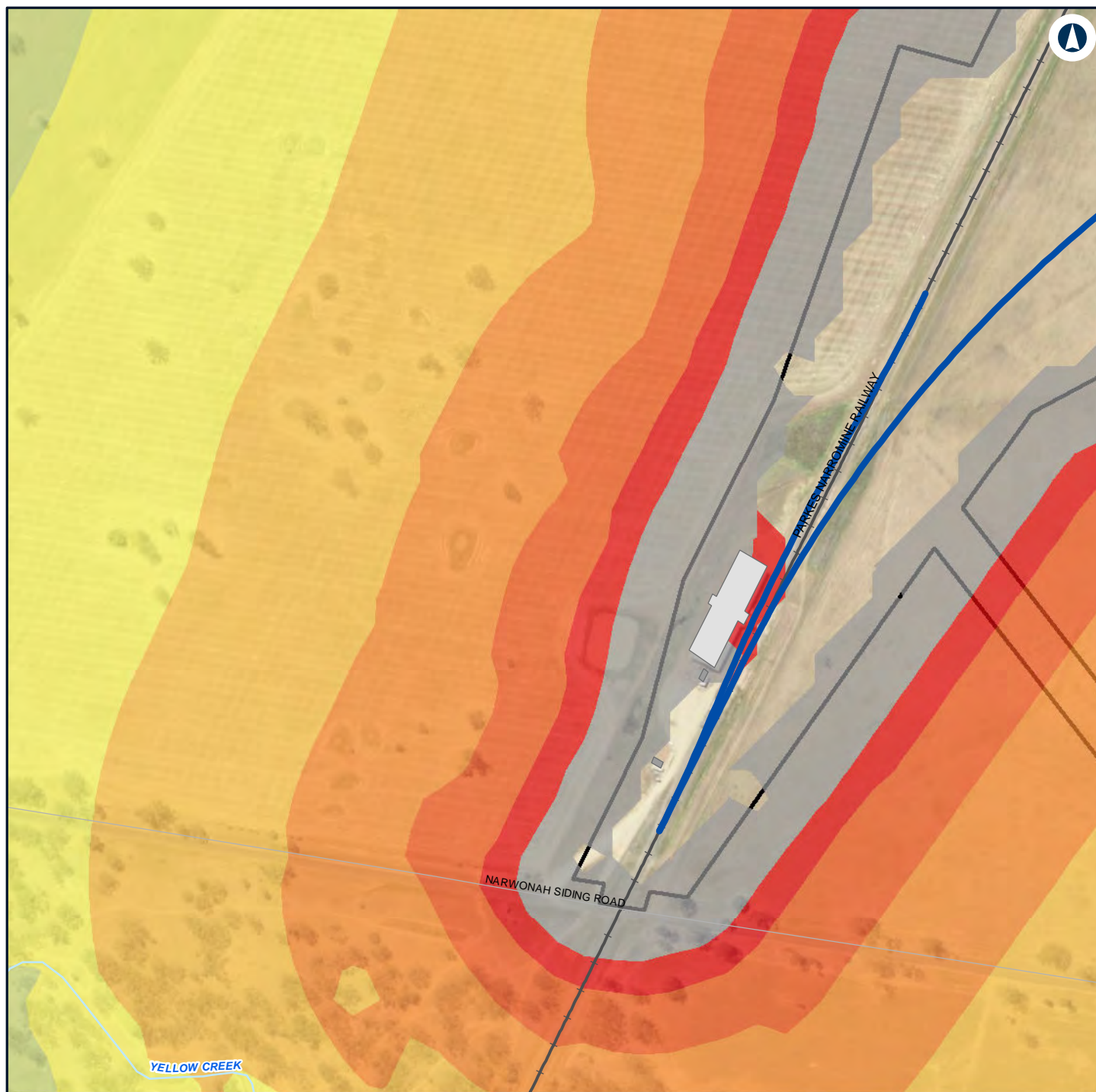
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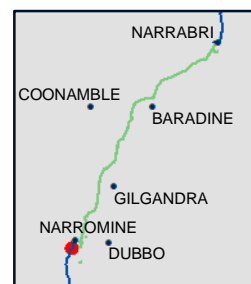
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LEGEND

	Construction footprint		55 - 60
	Commercial/Industrial		60 - 65
	Other		65 - 70
	Alignment		70 - 75
Noise level (dBA L_{Aeq} 15 minute)			> 75
	45 - 50		
	50 - 55		



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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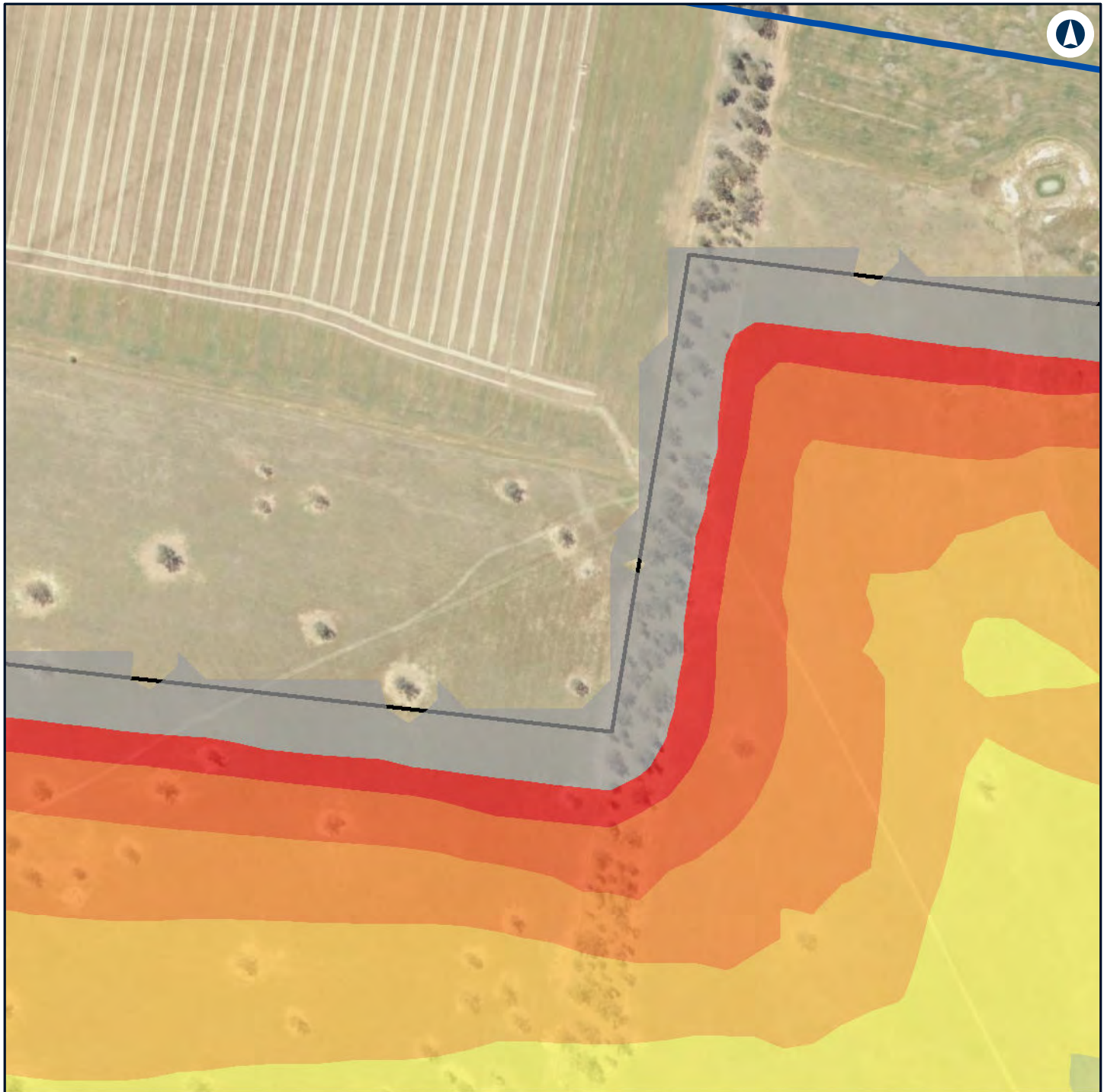
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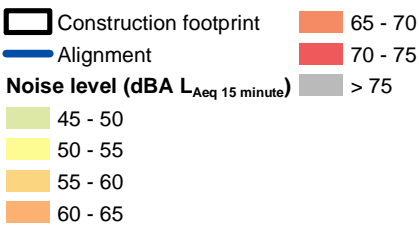
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LEGEND



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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LEGEND

Structure type

● Residential

■ Other

■ Residential

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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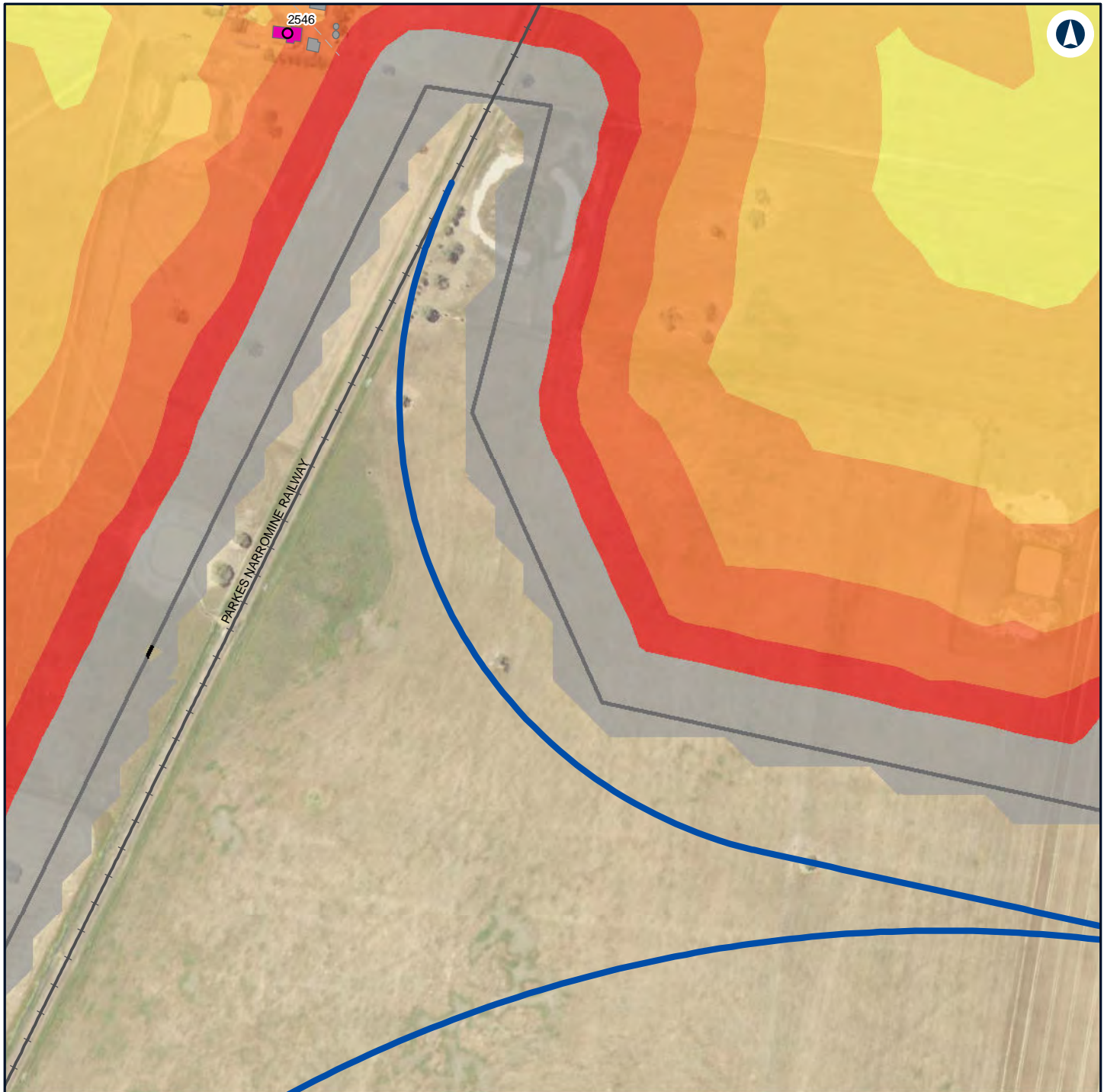
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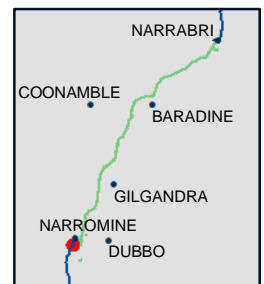
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LEGEND

	Construction footprint	Noise level (dBA L_{Aeq} 15 minute)
	Structure type	
	Residential	50 - 55
	Other	55 - 60
	Residential	60 - 65
	Residential	65 - 70
	Alignment	70 - 75
		> 75



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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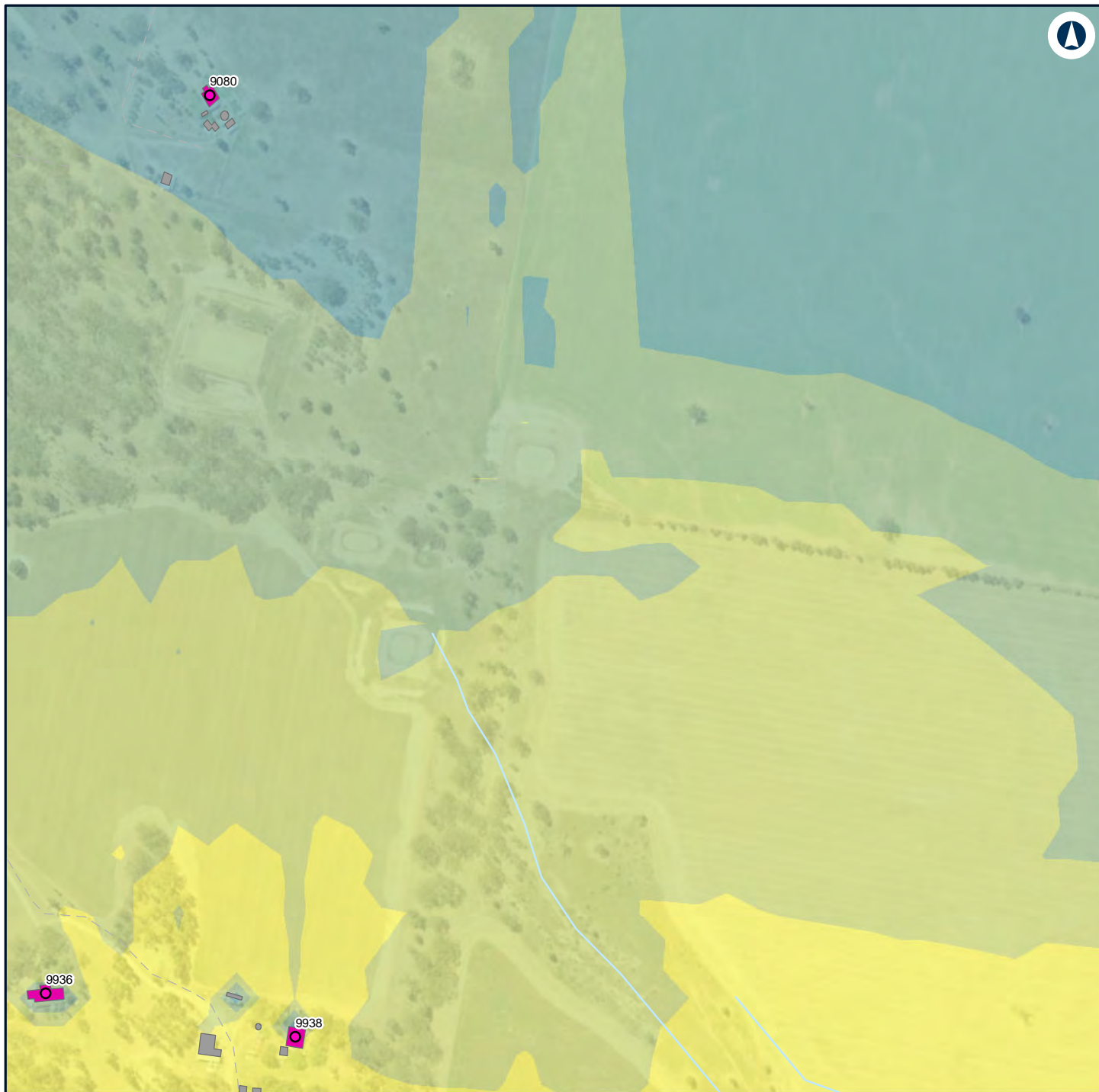
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LEGEND

Structure type

● Residential

■ Other

■ Residential

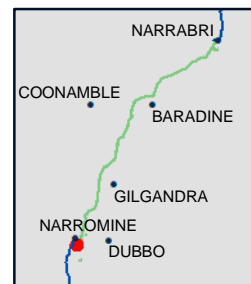
Noise level (dBA L_{Aeq} 15 minute)

■ 35 - 40

■ 40 - 45

■ 45 - 50

■ 50 - 55



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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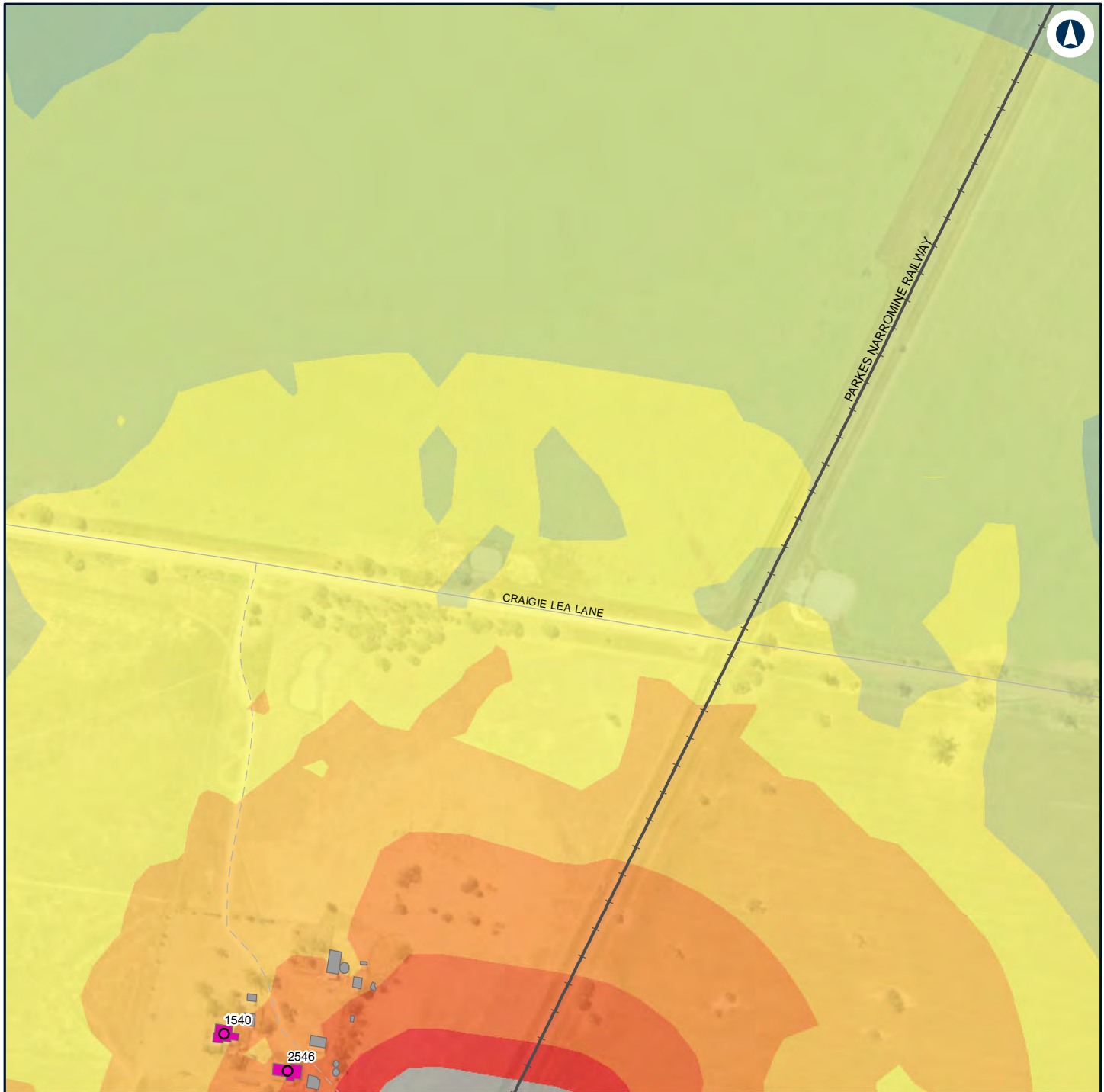
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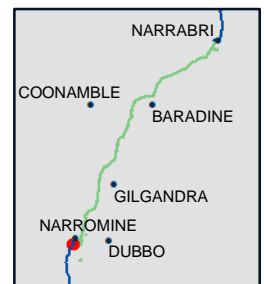
LEGEND

Structure type

- Residential
- Other
- Residential

Noise level (dBA L_{Aeq} 15 minute)

- 40 - 45
- 45 - 50
- 50 - 55
- 55 - 60
- 60 - 65
- 65 - 70
- 70 - 75
- > 75



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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LEGEND

Structure type

- Residential
- Other
- Residential

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

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



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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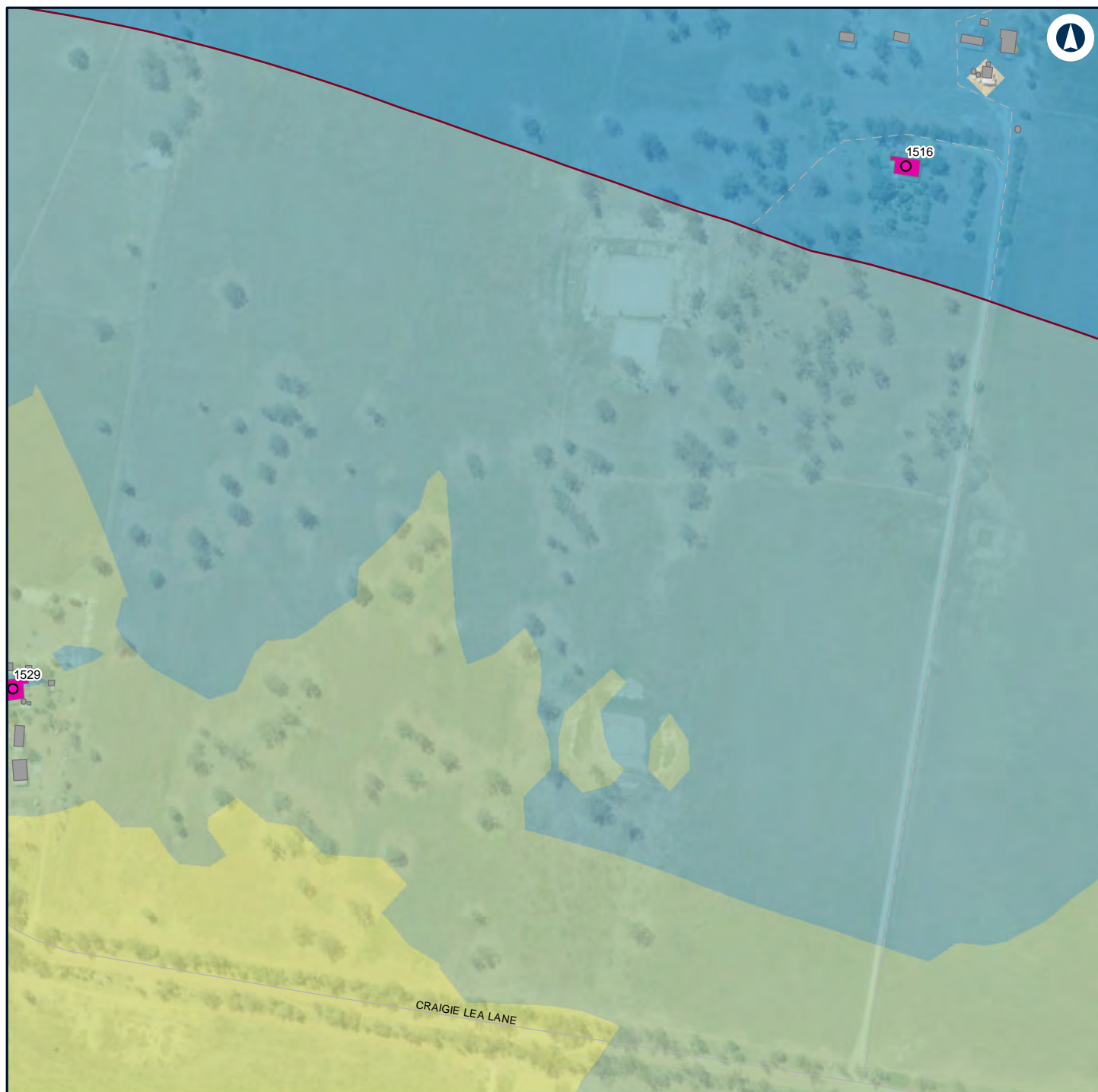
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LEGEND

Structure type

Residential

Other

Residential

Night-time noise management level

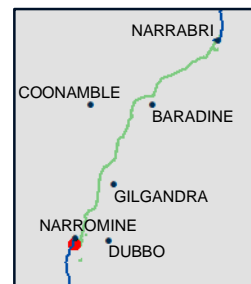
Noise level (dBA L_{Aeq} 15 minute)

30 - 35

35 - 40

40 - 45

45 - 50



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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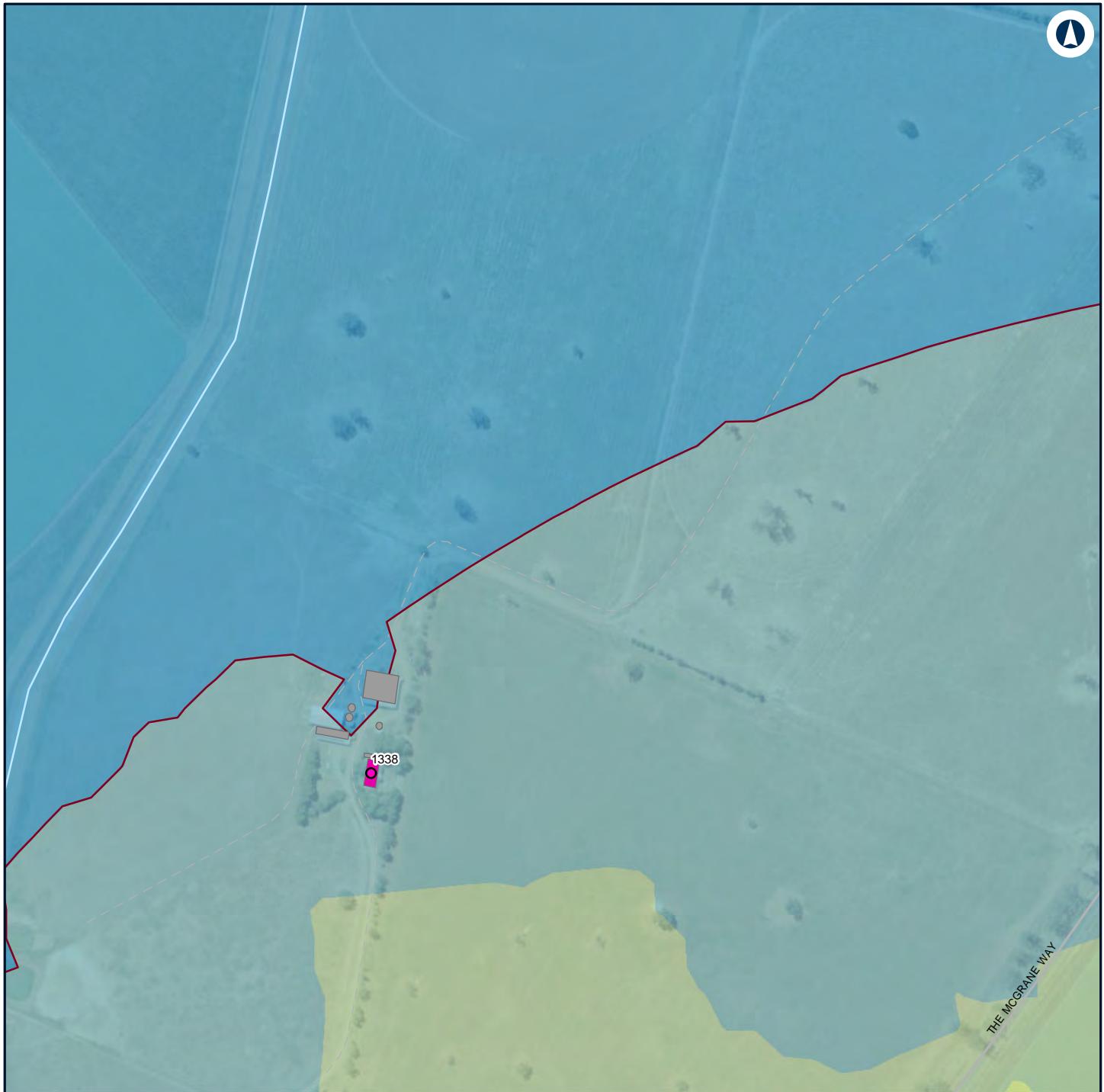
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LEGEND

Structure type

- Residential
- Other

■ Residential

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40
■ 40 - 45
■ 45 - 50



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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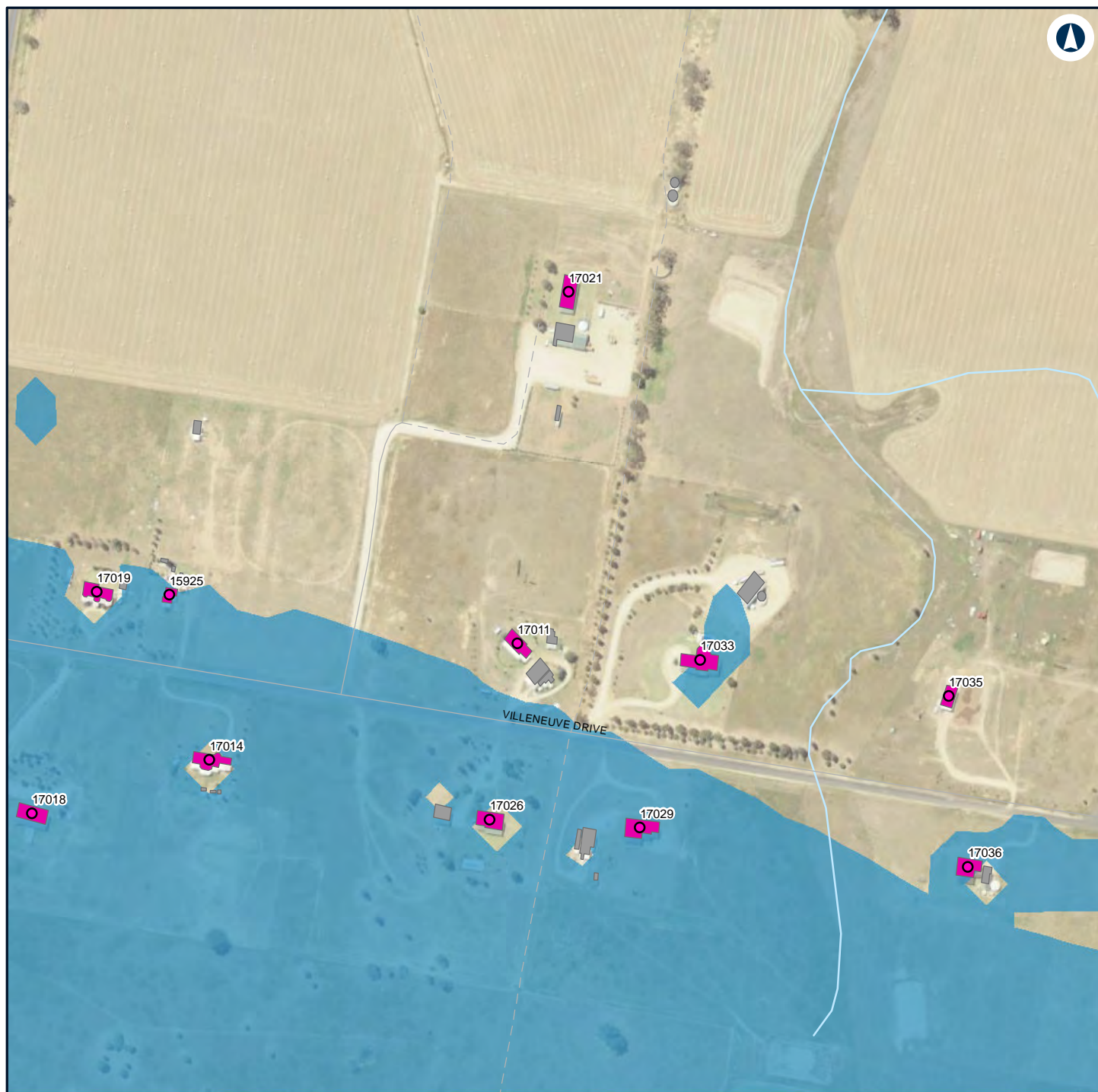
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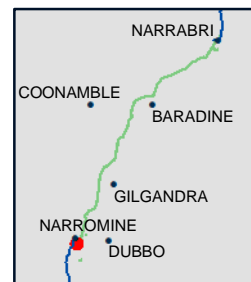
LEGEND

Structure type

- Residential
- Other
- Residential

Noise level (dBA L_{Aeq} 15 minute)

- 30 - 35



NARROMINE TO NARRABRI

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0 0.1 0.2
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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 RAIL03 - Stripping Topsoil

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0 0.1 0.2
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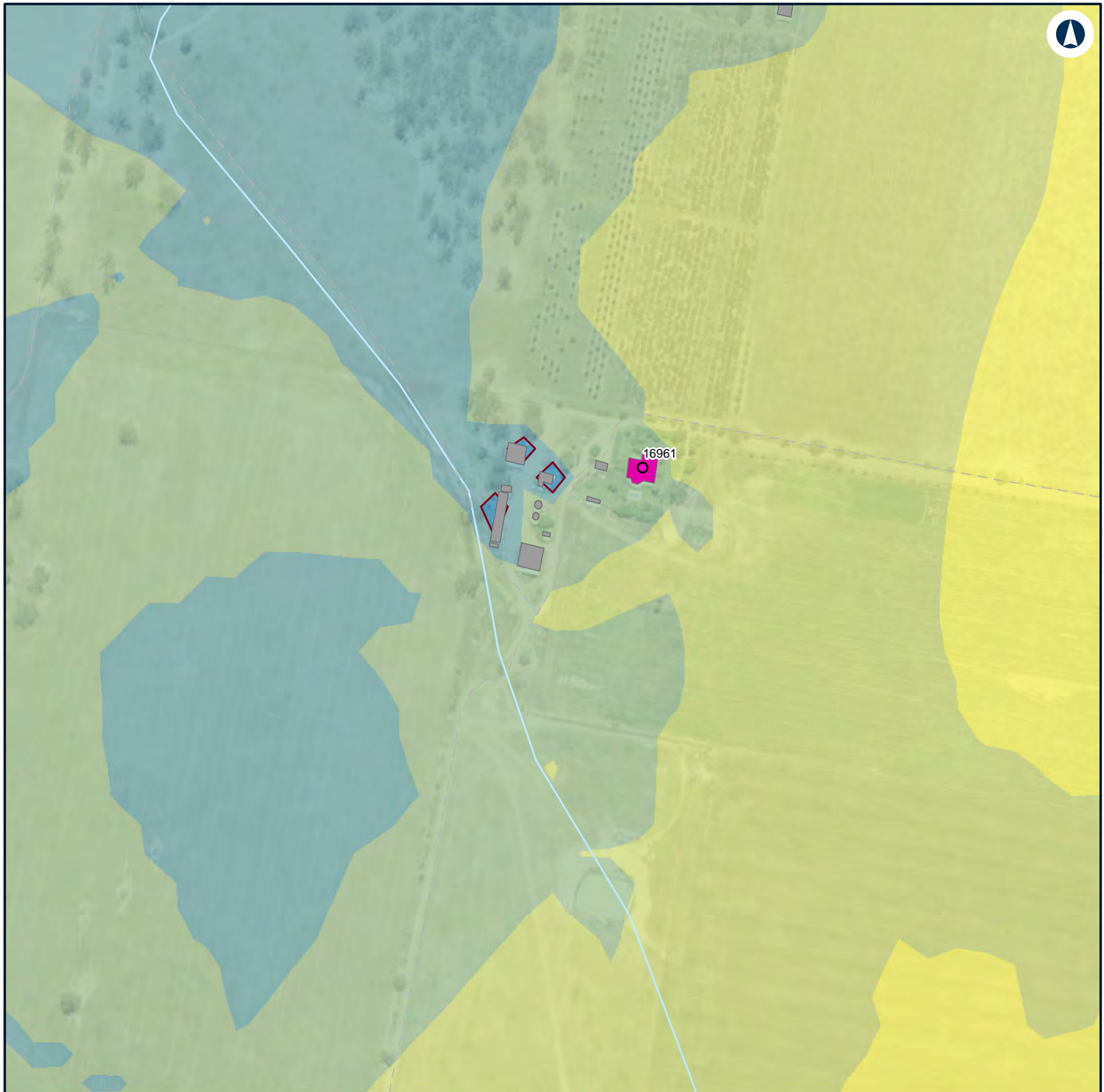
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Structure type

- Residential
- Other
- Residential

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

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



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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Date: 16/07/2020

Paper: A4

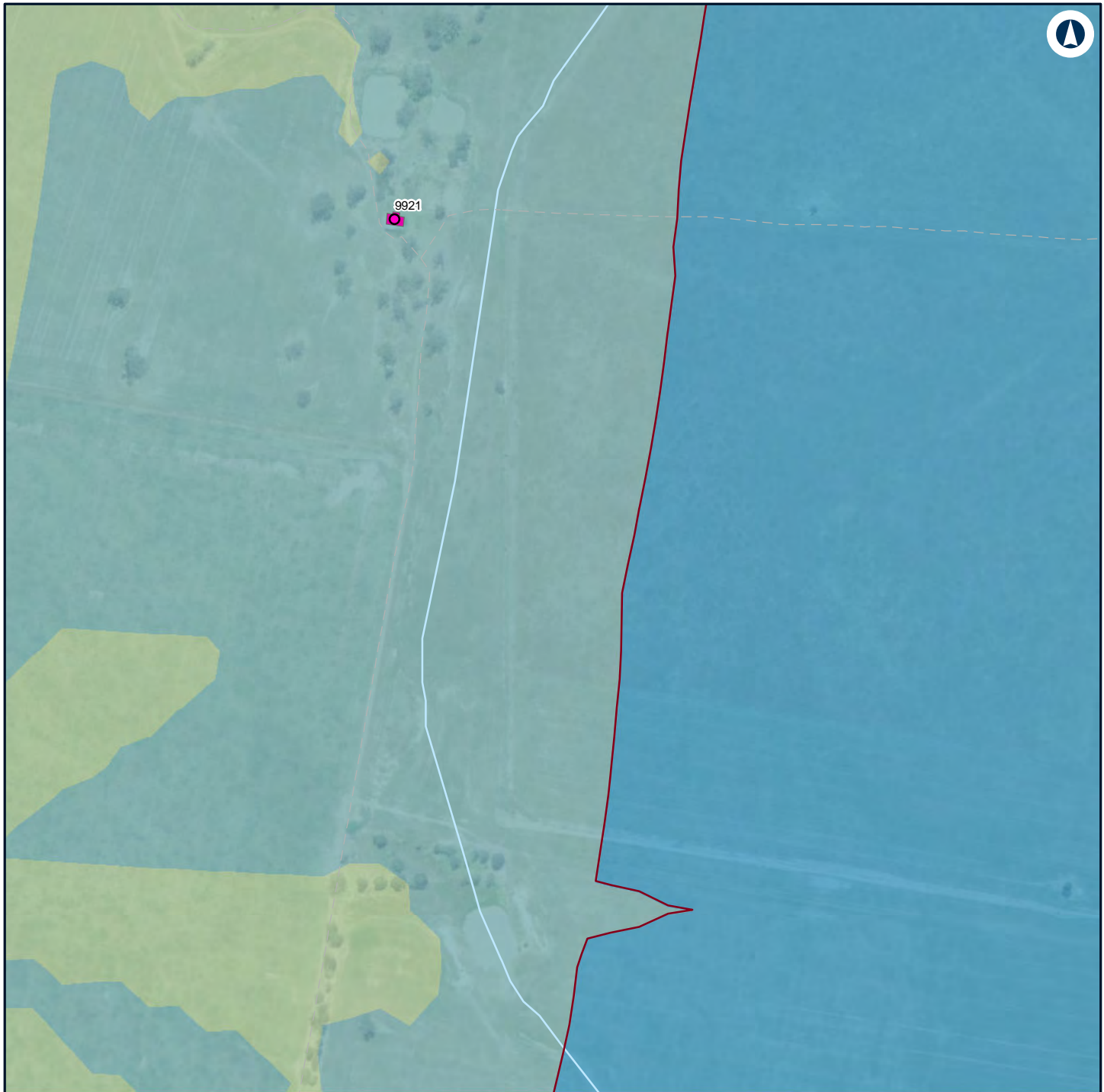
Author: GHD

Scale: 1:5,000

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

INLAND RAIL **ARTC**

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LEGEND

Structure type

● Residential

■ Residential

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40

■ 40 - 45



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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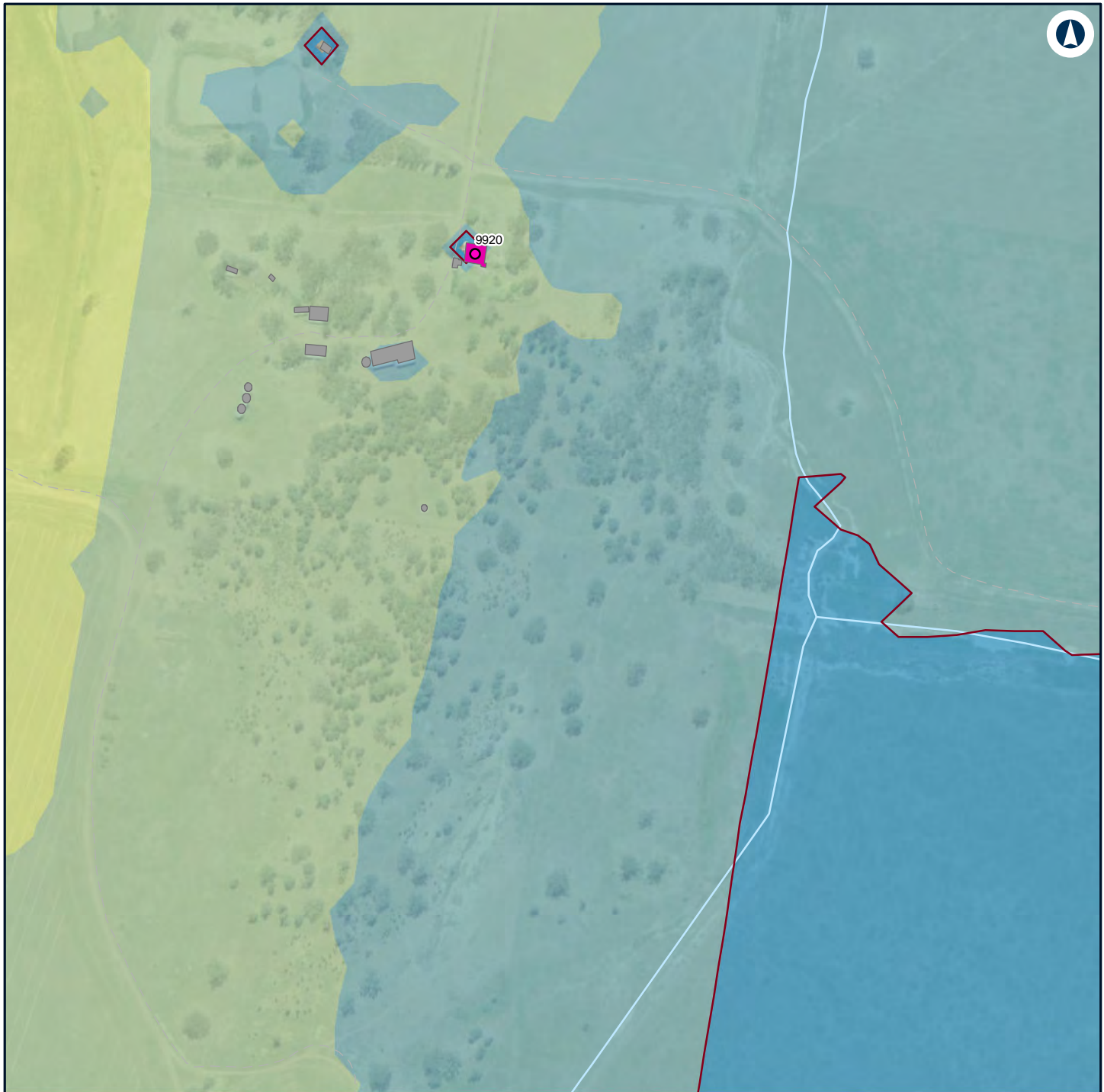
Author: GHD

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LEGEND

Structure type

● Residential

■ Other

■ Residential

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40

■ 40 - 45

■ 45 - 50



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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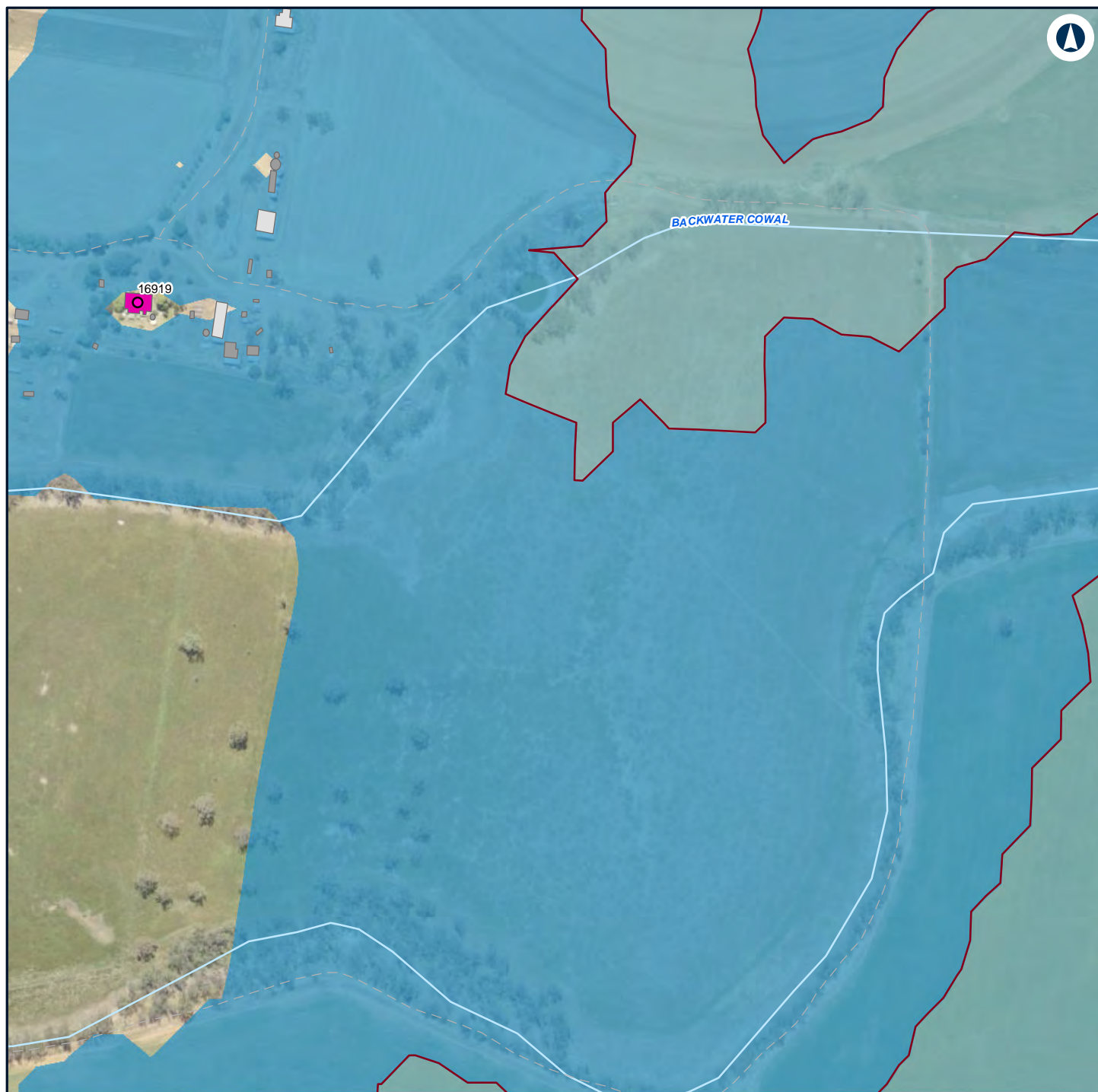
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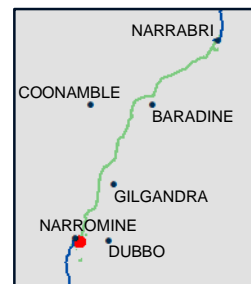
LEGEND

Structure type

- Residential
- Commercial/Industrial
- Other
- Residential
- Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

- 30 - 35
- 35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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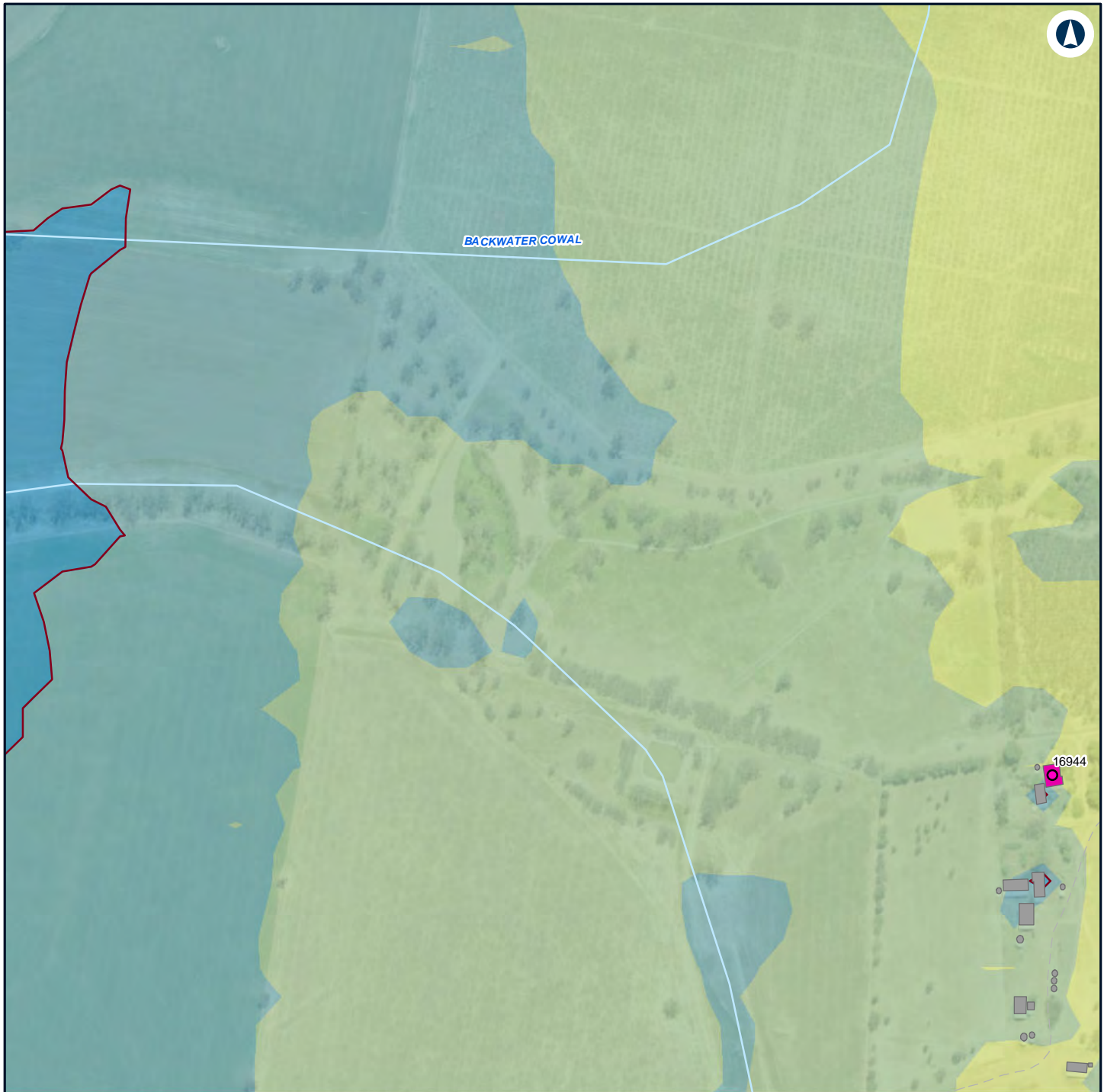
Author: GHD

Scale: 1:5,000

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

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LEGEND

Structure type

● Residential

■ Other

■ Residential

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40

■ 40 - 45

■ 45 - 50



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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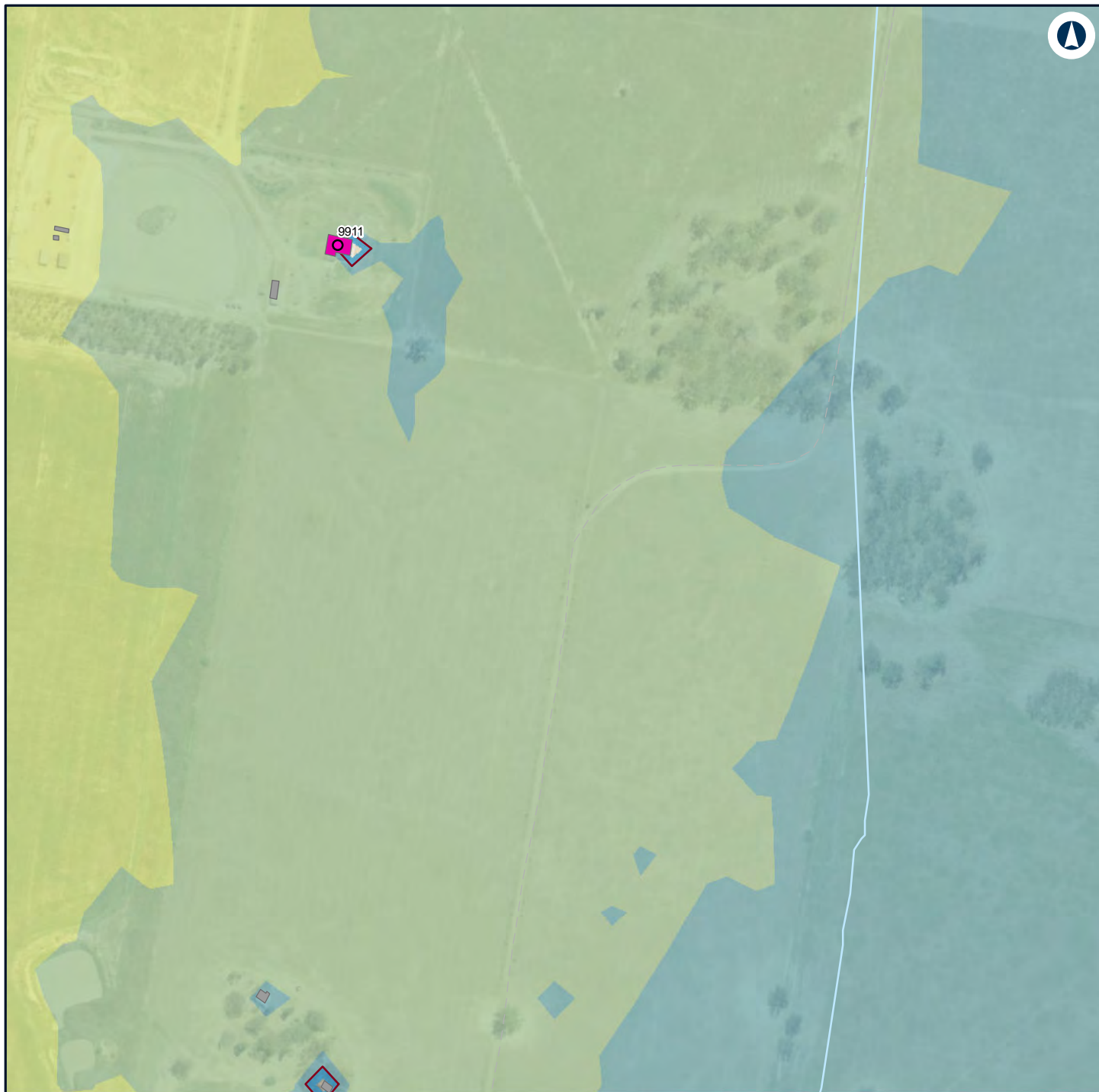
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LEGEND

Structure type

- Residential
- Other

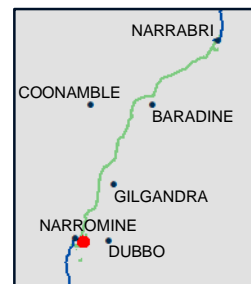
- Residential

- Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

- 30 - 35

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



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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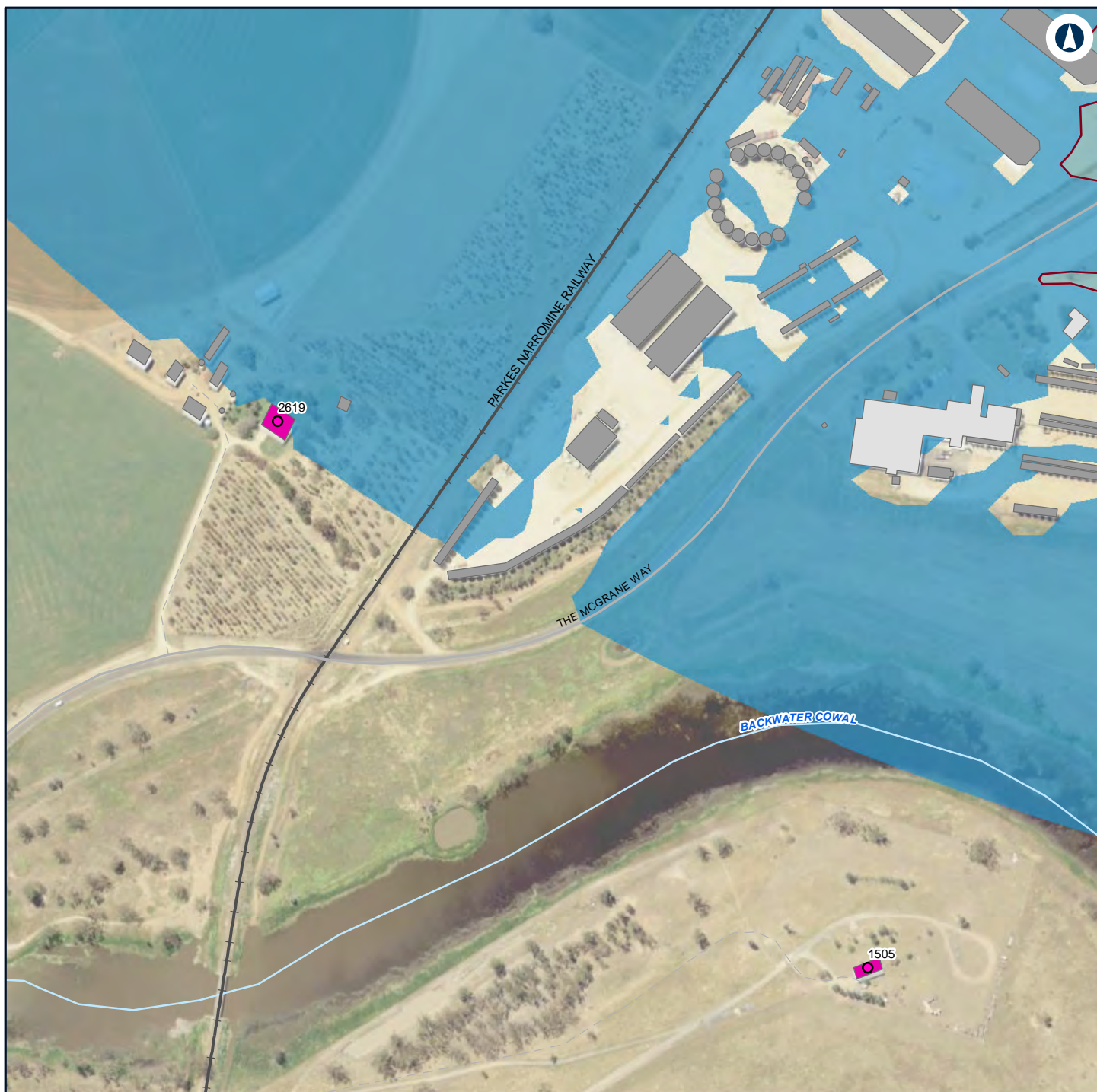
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Scale: 1:5,000

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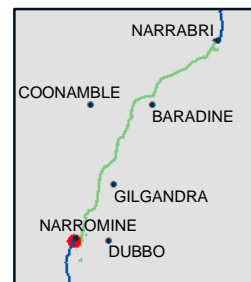
LEGEND

Structure type

- Residential
- Commercial/Industrial
- Other
- Residential
- Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

- 30 - 35
- 35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

Appendix F - Page 25 of 298

0 0.1 0.2
Km

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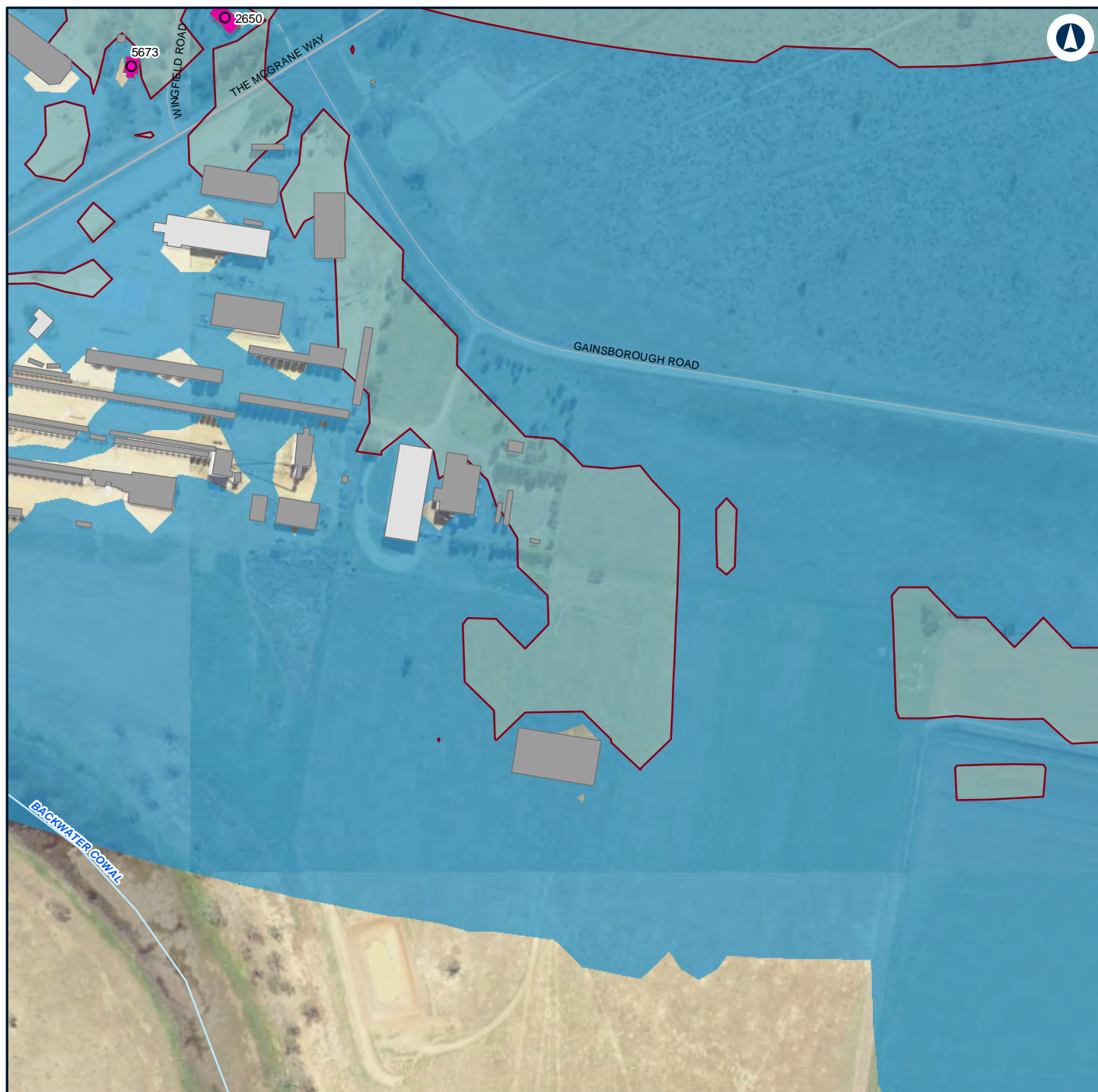
Author: GHD

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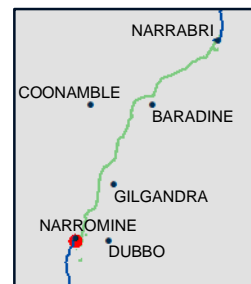
LEGEND

Structure type

- Residential
- Commercial/Industrial
- Other
- Residential
- Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

- 30 - 35
- 35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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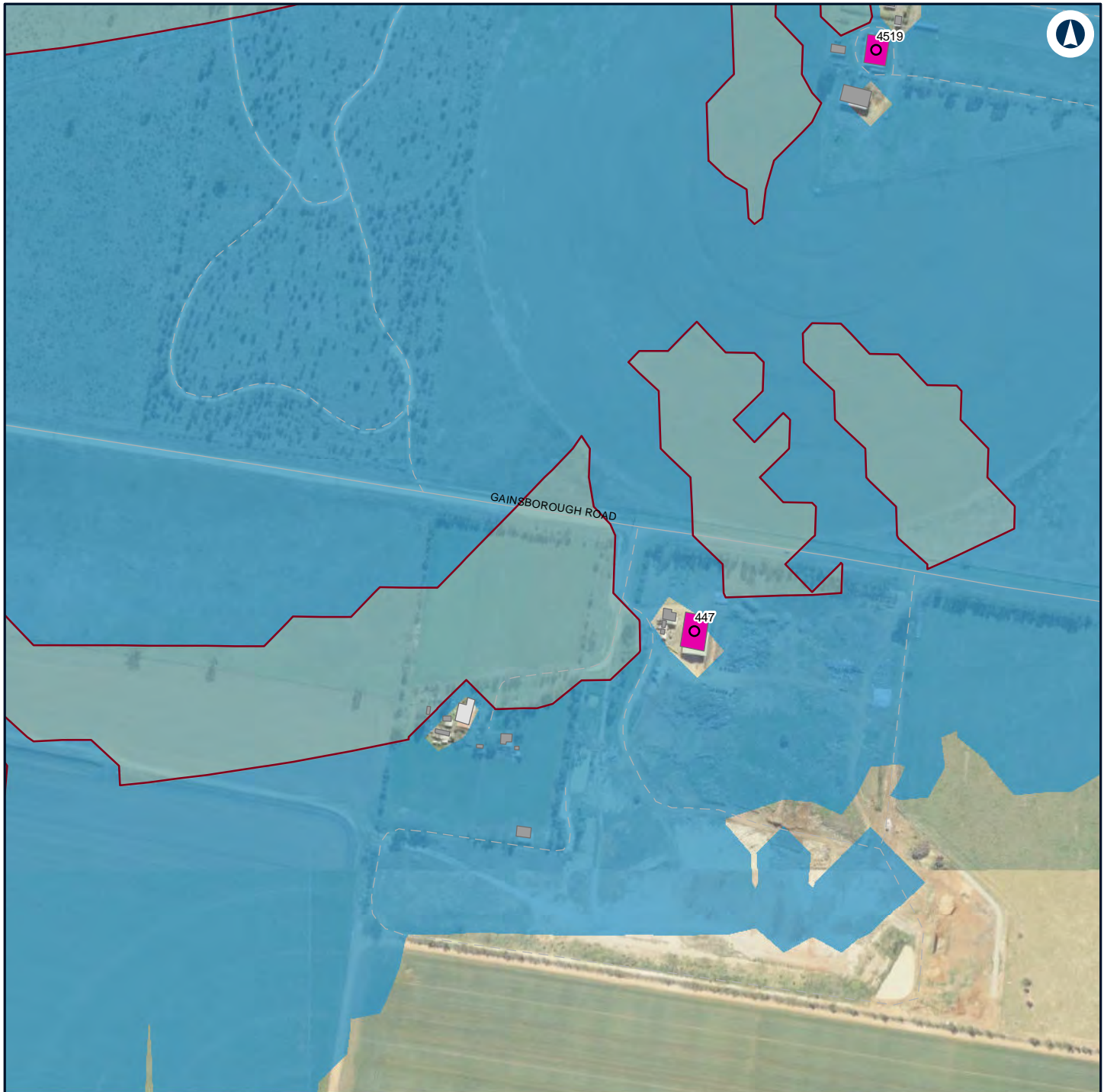
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Scale: 1:5,000

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LEGEND

Structure type

- Residential
- Commercial/Industrial
- Other
- Residential
- Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

- 30 - 35
- 35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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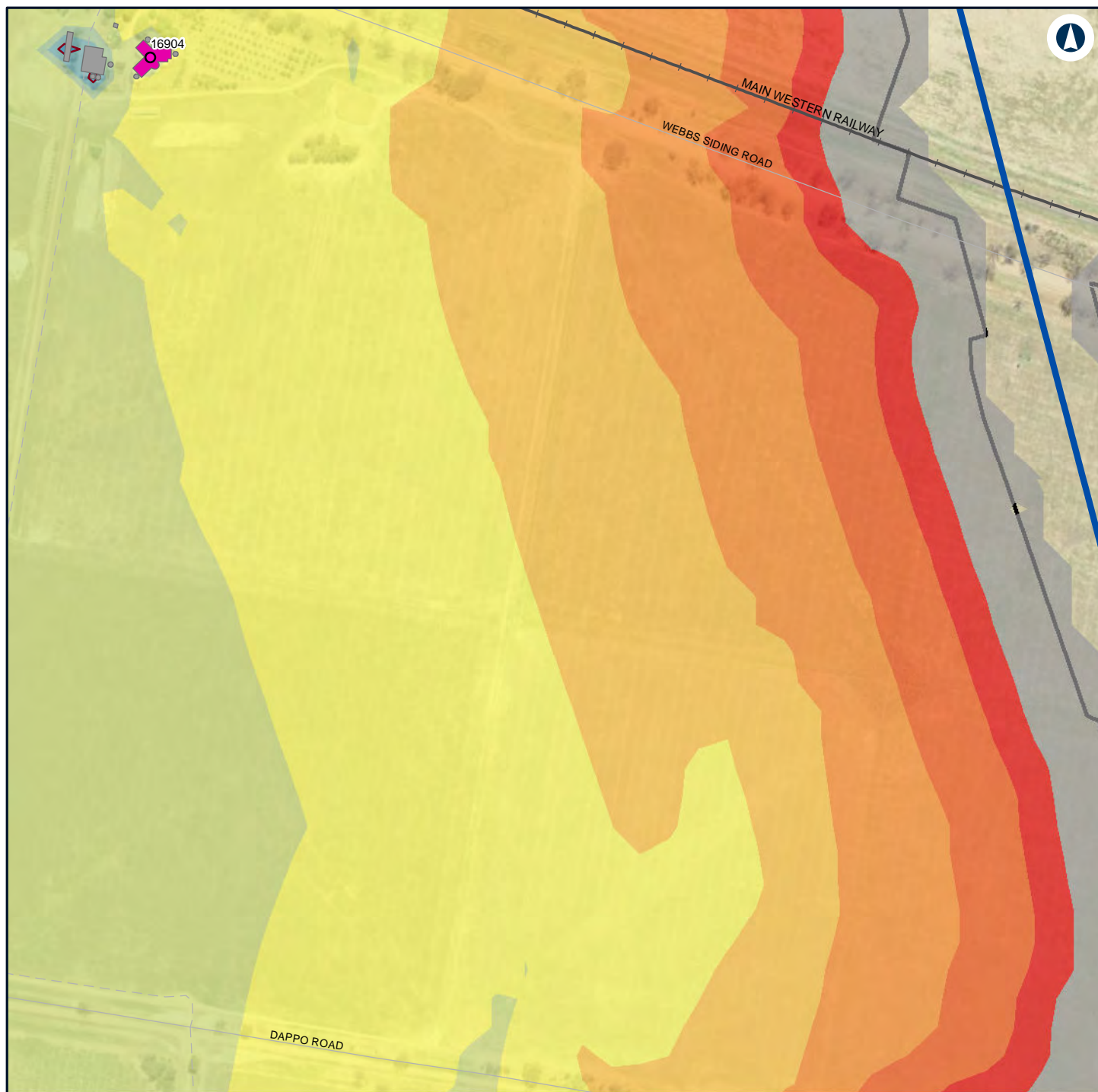
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LEGEND

Construction footprint

Structure type

Residential

Other

Residential

Alignment

Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

30 - 35

35 - 40

40 - 45

45 - 50

50 - 55

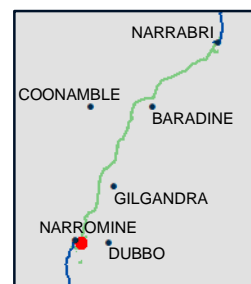
55 - 60

60 - 65

65 - 70

70 - 75

> 75



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

Appendix F - Page 28 of 298

0 0.1 0.2
Km

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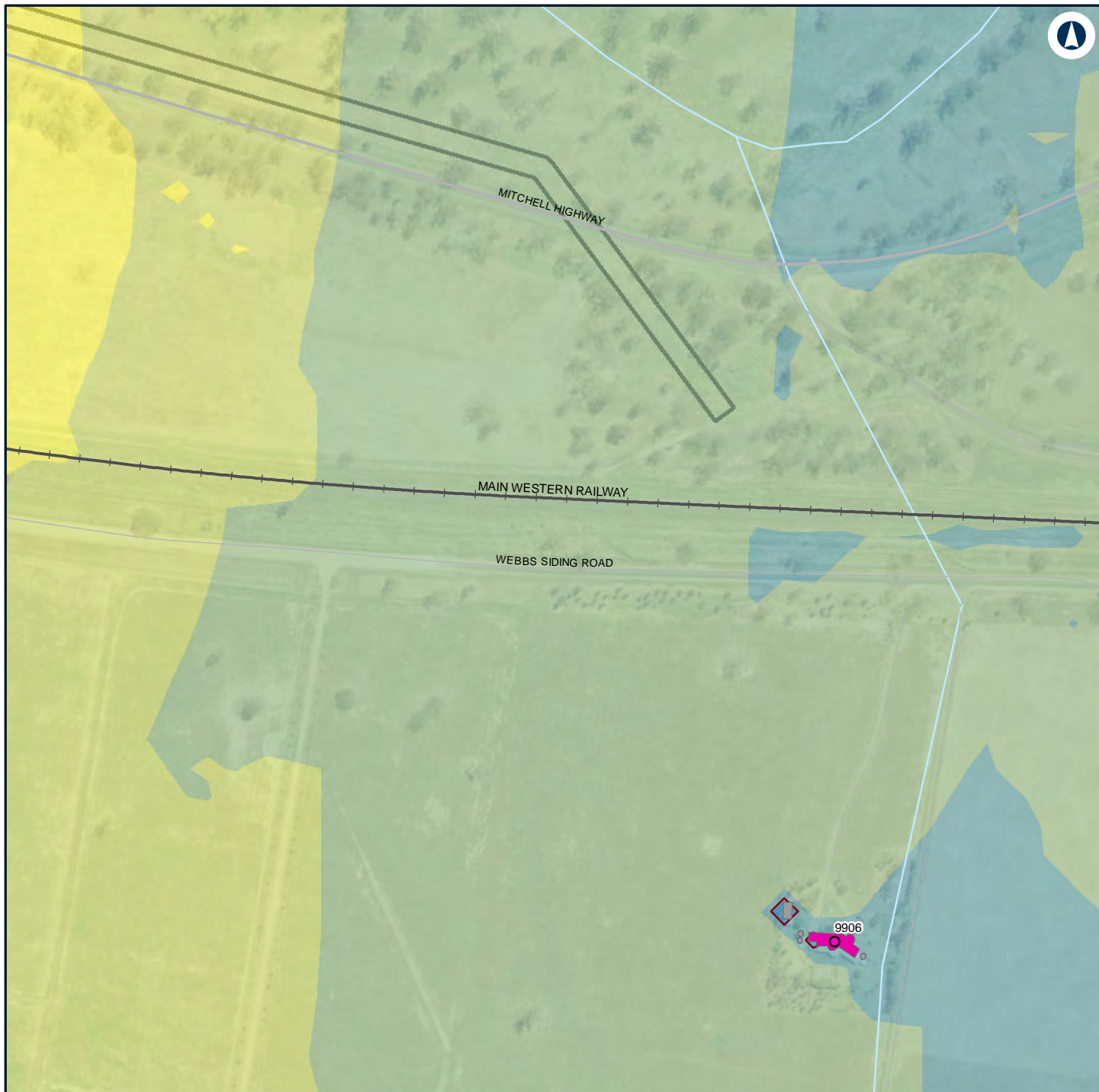
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LEGEND

Construction footprint

Structure type

Residential

Other

Residential

Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

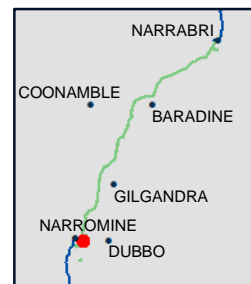
30 - 35

35 - 40

40 - 45

45 - 50

50 - 55



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

Appendix F - Page 29 of 298

0 0.1 0.2
Km

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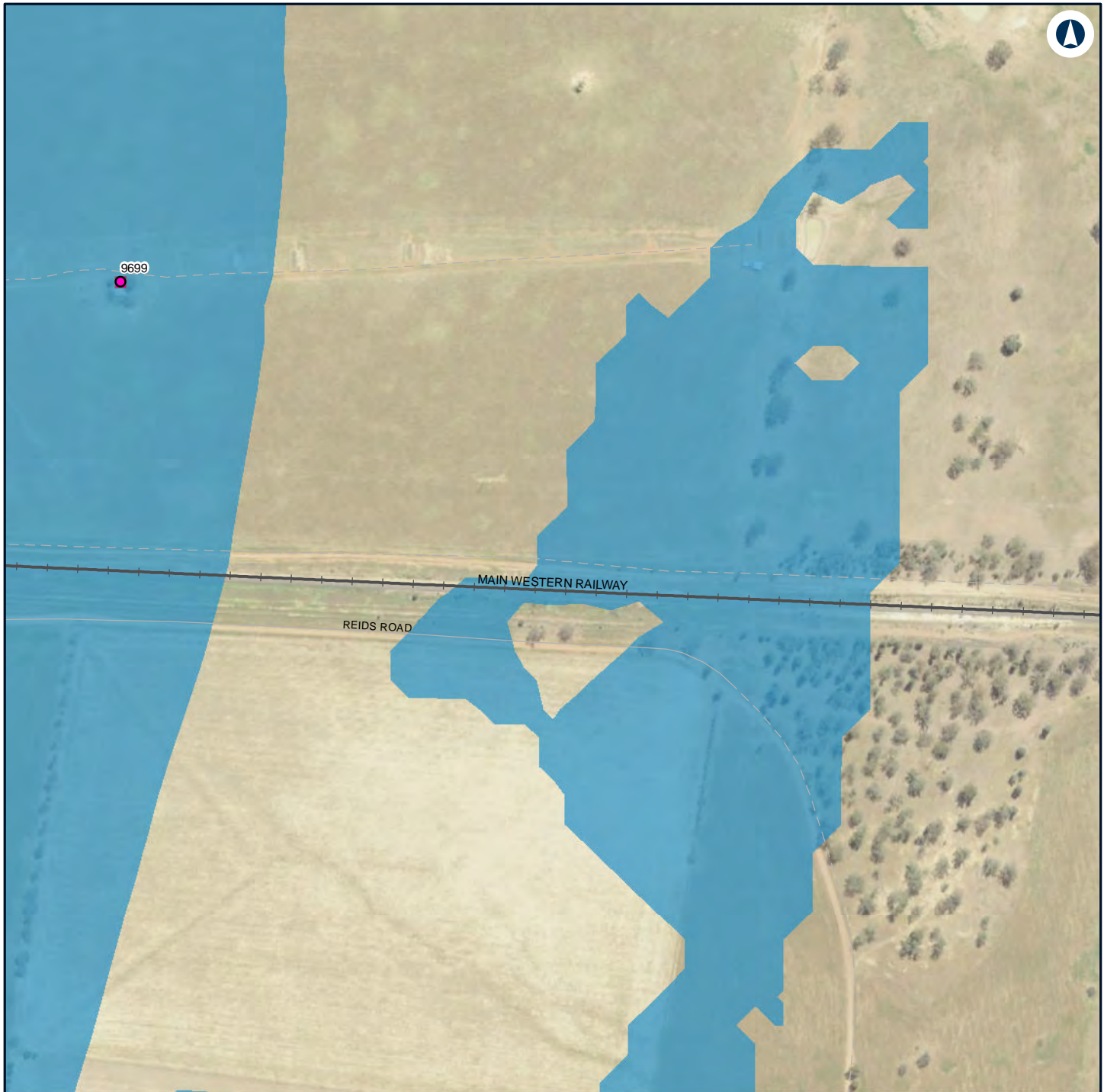
Author: GHD

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

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LEGEND

Structure type

- Residential
- Residential

Noise level (dBA L_{Aeq} 15 minute)

30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

Appendix F - Page 30 of 298

0 0.1 0.2
Km

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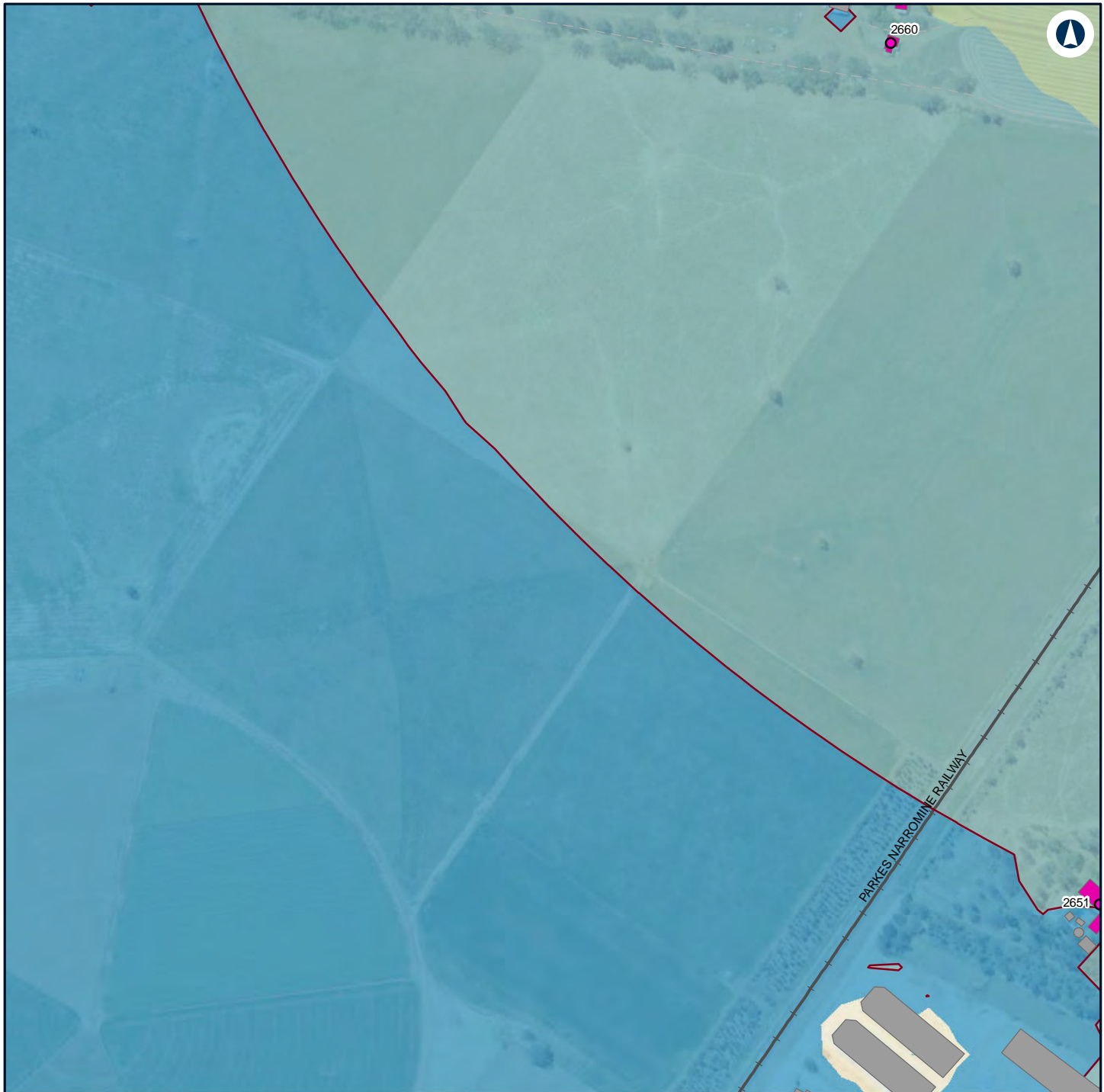
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LEGEND

Structure type

● Residential

■ Other

■ Residential

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40

■ 40 - 45



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

Appendix F - Page 31 of 298

0 0.1 0.2
Km

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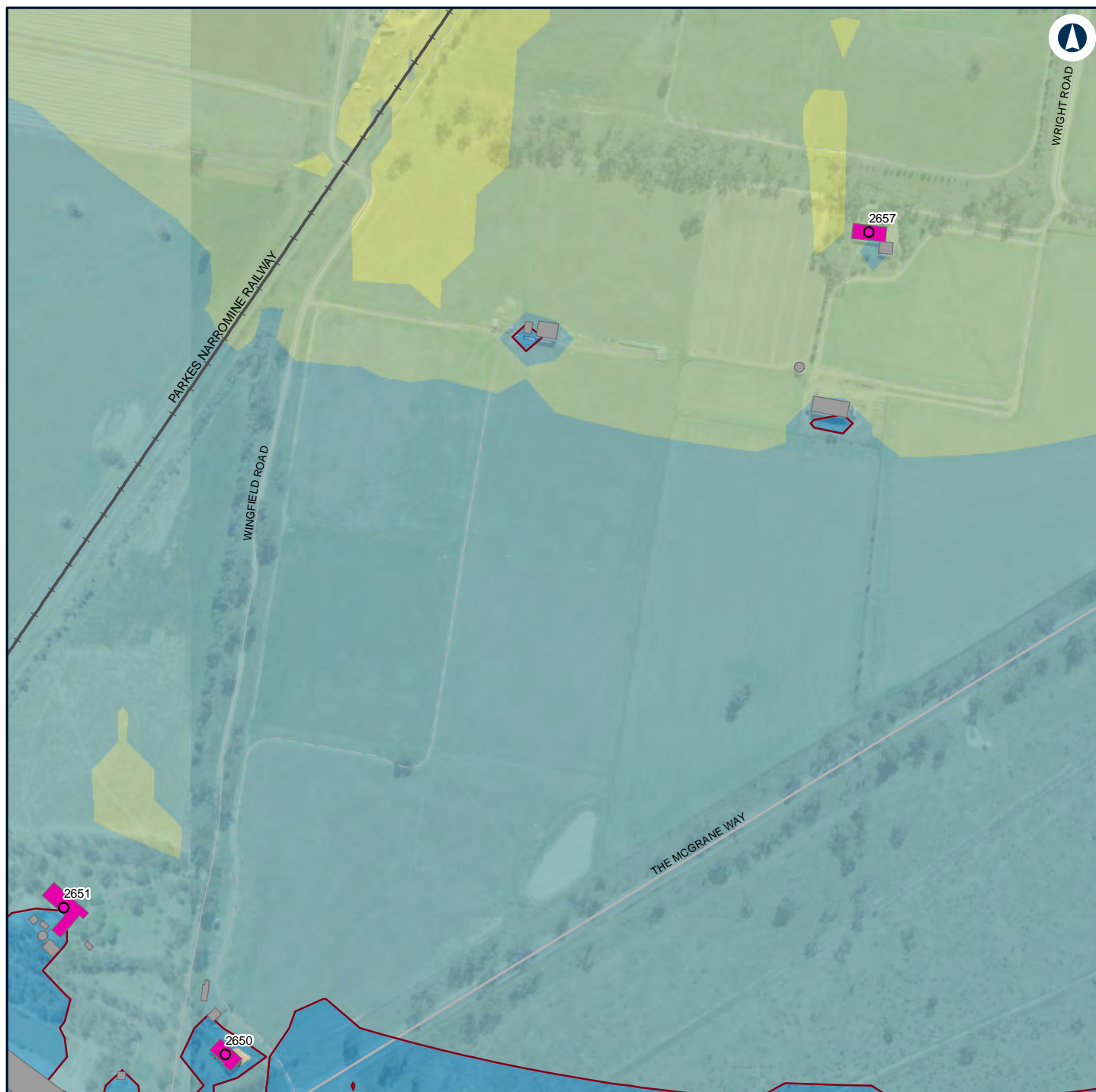
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Scale: 1:5,000

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

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LEGEND

Structure type

● Residential

■ Other

■ Residential

— Night-time noise management level

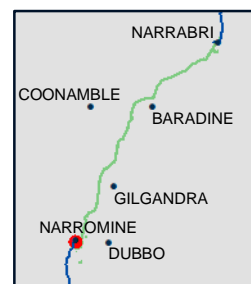
Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40

■ 40 - 45

■ 45 - 50



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

Appendix F - Page 32 of 298

0 0.1 0.2
Km

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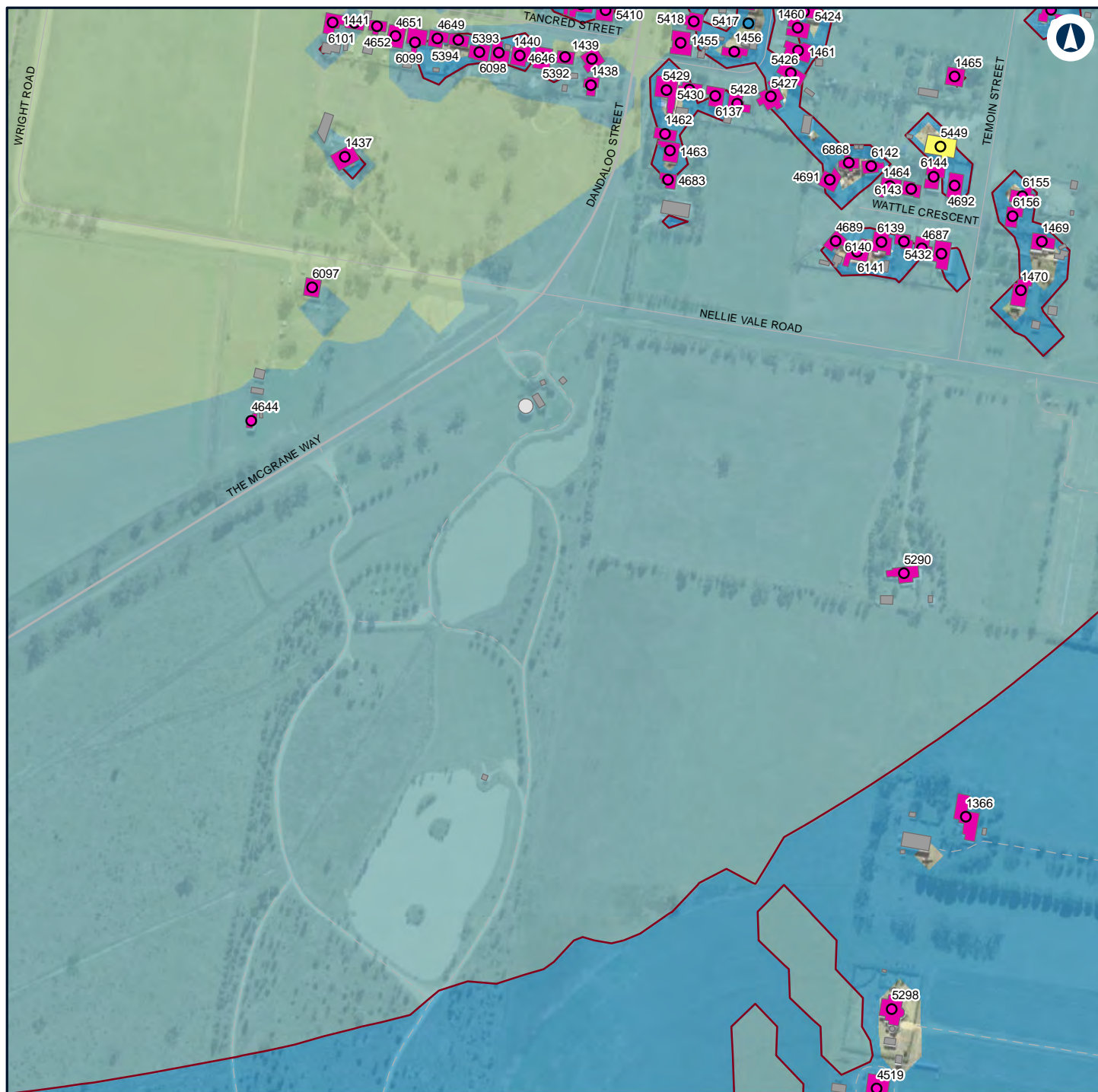
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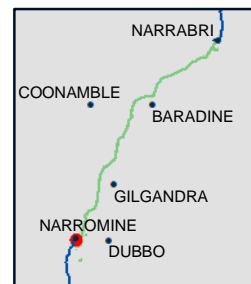
LEGEND

Structure type

- Active recreation
- Community
- Residential
- Active recreation
- Commercial/Industrial
- Community
- Other
- Residential
- Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

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



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

Appendix F - Page 33 of 298

0 0.1 0.2
Km

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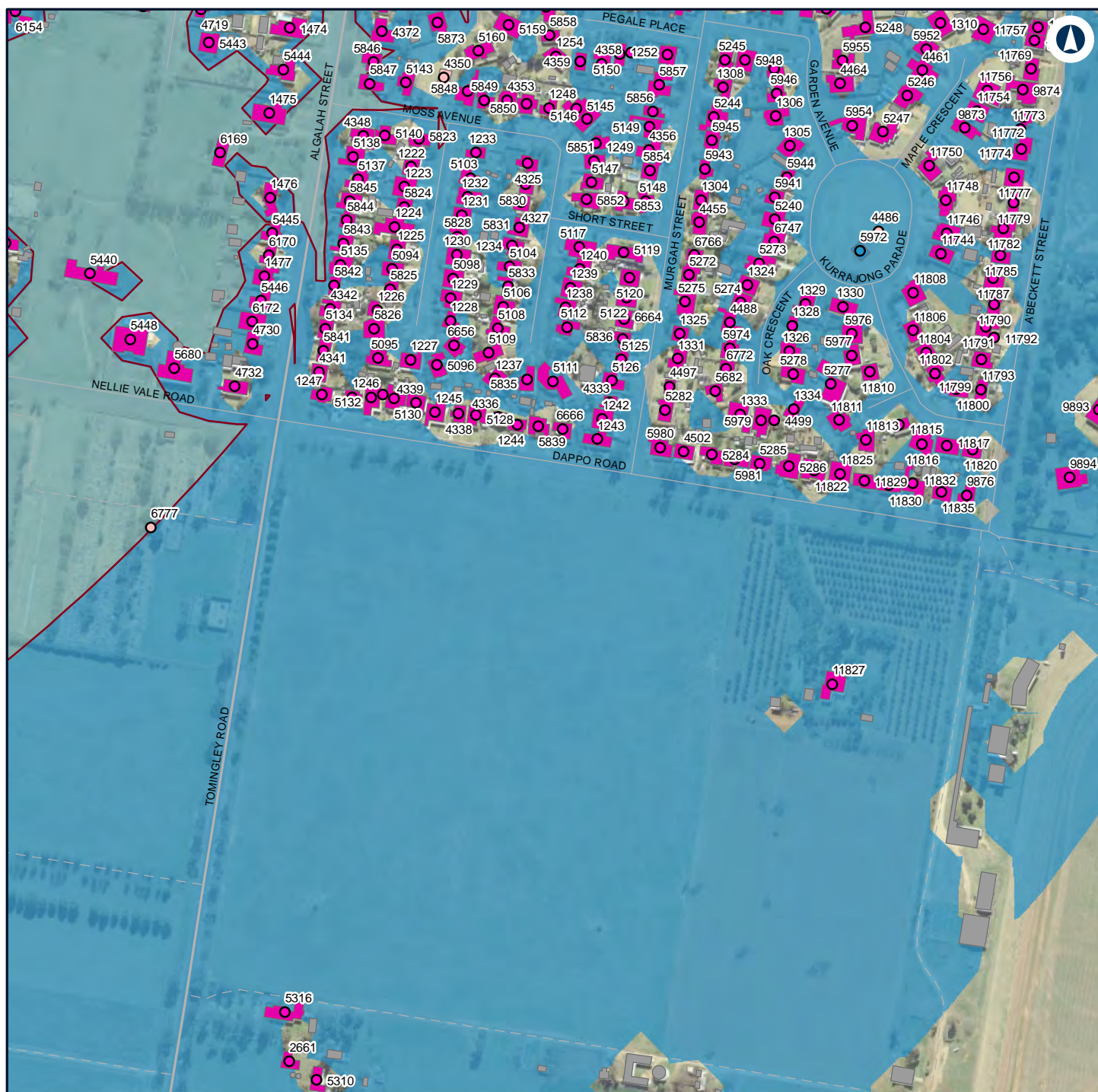
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Scale: 1:5,000

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

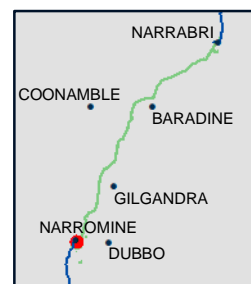
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LEGEND

Structure type	■ Residential
● Active recreation	— Night-time noise management level
○ Passive recreation	Noise level (dBA L_{Aeq} 15 minute)
● Residential	■ 30 - 35
■ Active recreation	■ 35 - 40
■ Other	
■ Passive recreation	



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

Appendix F - Page 34 of 298

0 0.1 0.2
Km

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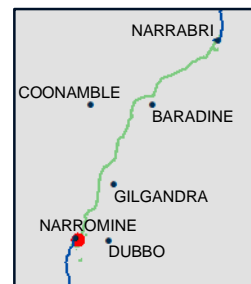
LEGEND

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 RAIL03 - Stripping Topsoil

Appendix F - Page 35 of 298

0 0.1 0.2
Km

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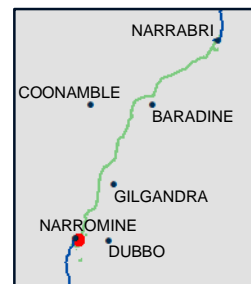
LEGEND

Structure type

- Residential
- Commercial/Industrial
- Other
- Residential

Noise level (dBA L_{Aeq} 15 minute)

30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

Appendix F - Page 36 of 298

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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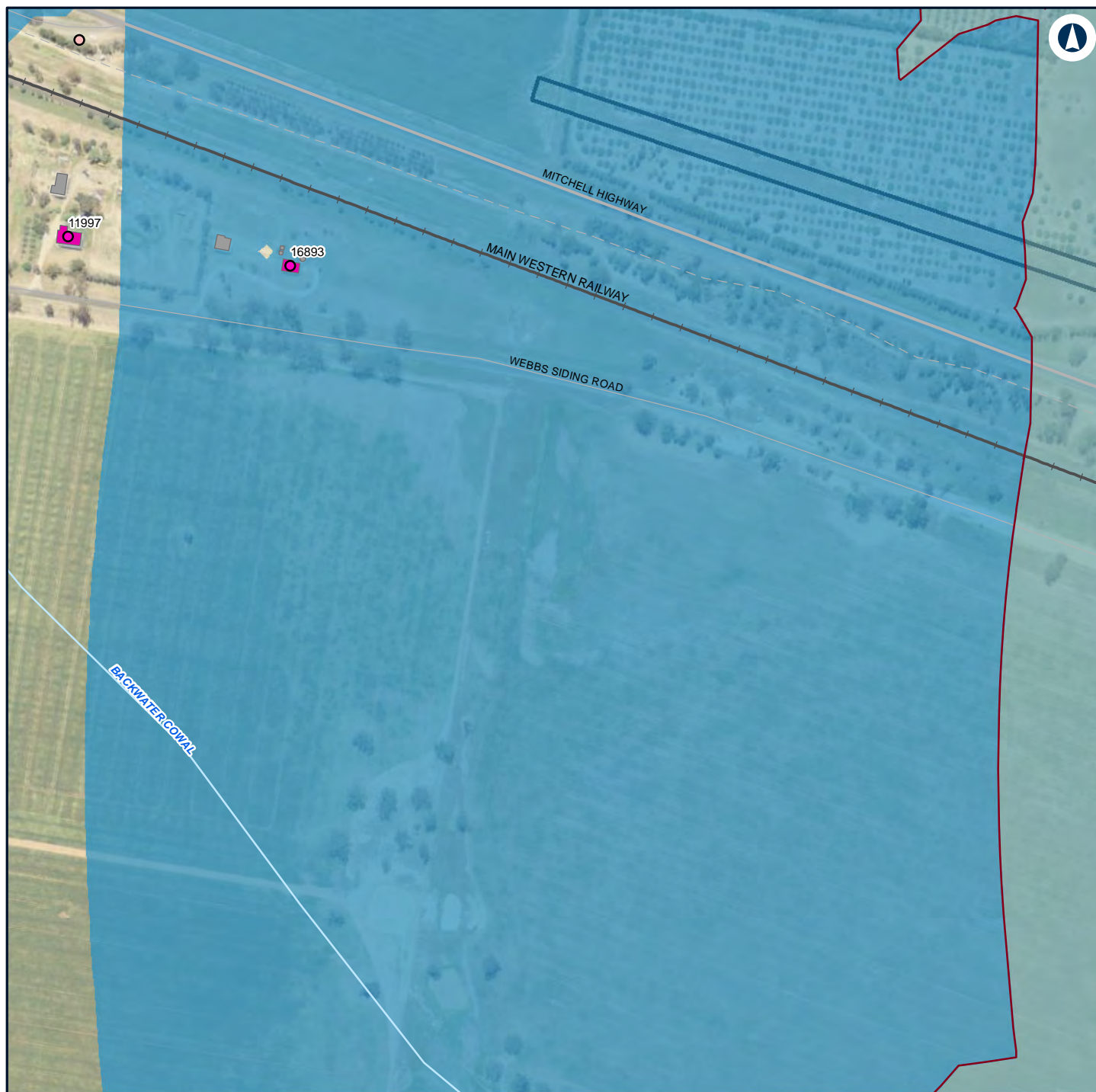
Author: GHD

Scale: 1:5,000

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LEGEND

Construction footprint

Structure type

Passive recreation

Residential

Other

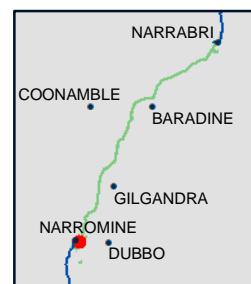
Residential

Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

30 - 35

35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

Appendix F - Page 37 of 298

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 16/07/2020

Paper: A4

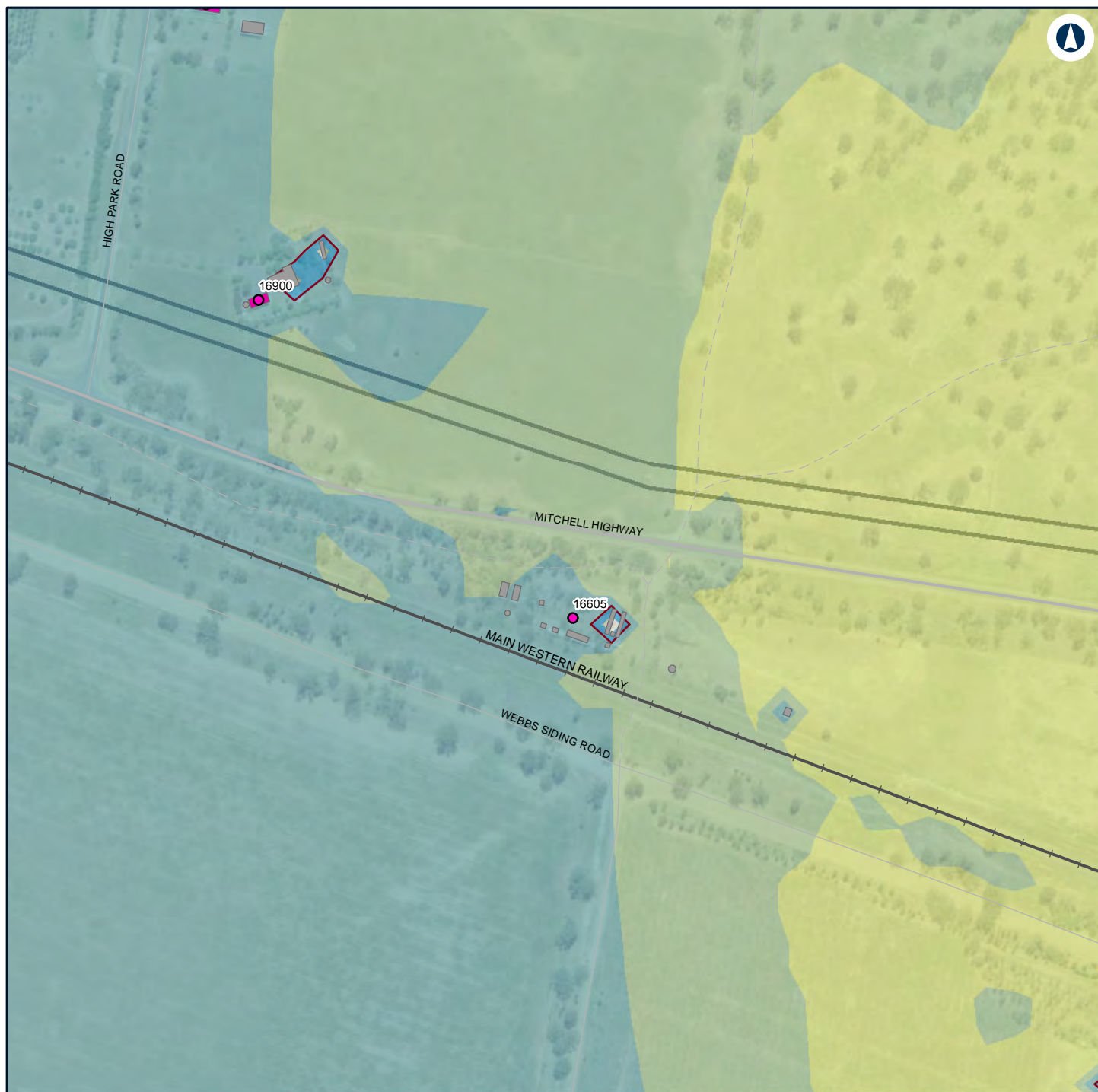
Author: GHD

Scale: 1:5,000

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

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LEGEND

Construction footprint

Structure type

Residential

Other

Residential

Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

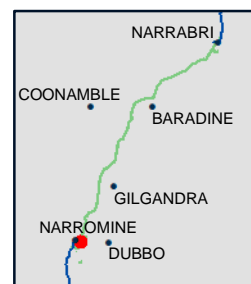
30 - 35

35 - 40

40 - 45

45 - 50

50 - 55



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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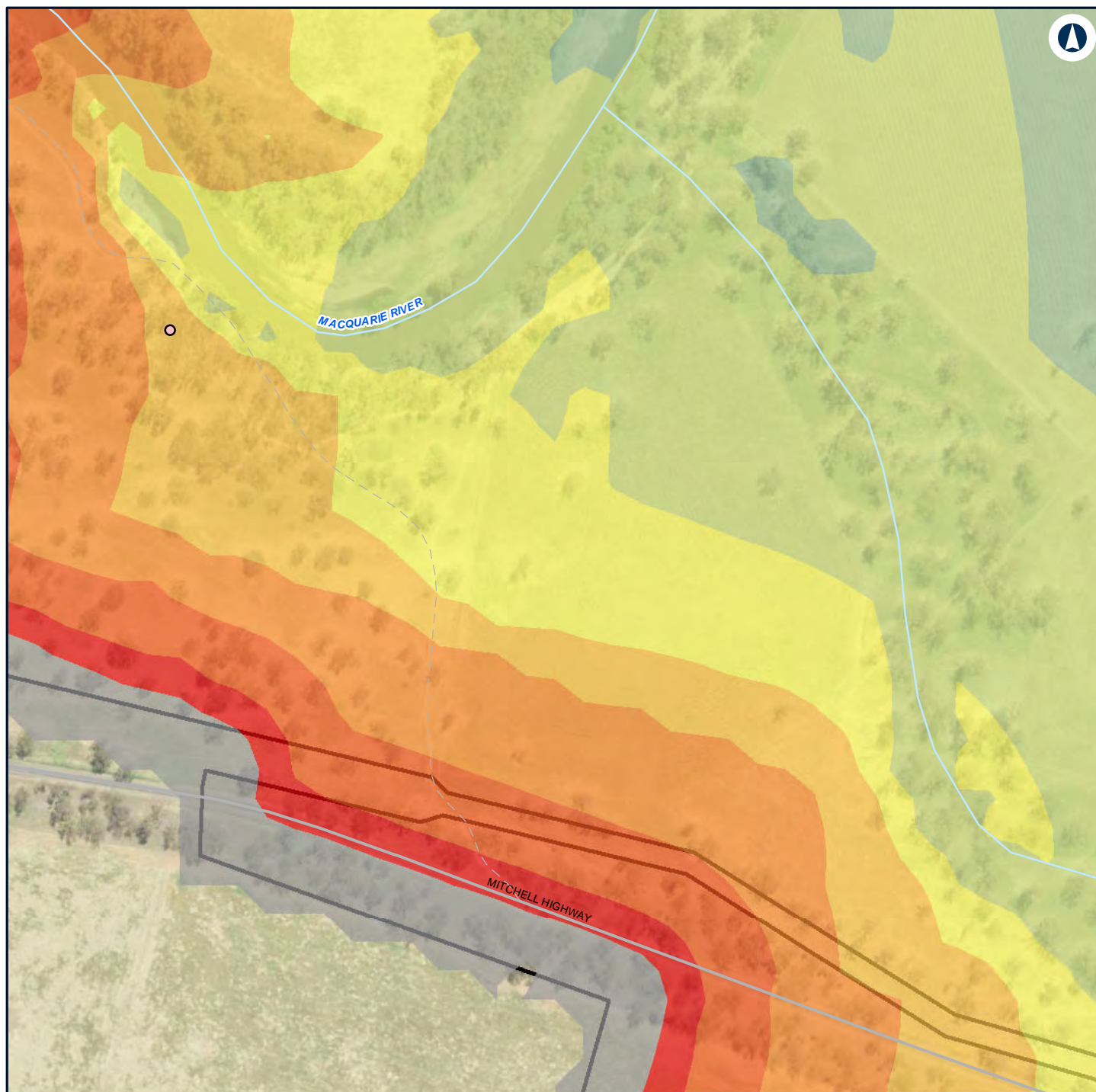
Author: GHD

Scale: 1:5,000

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

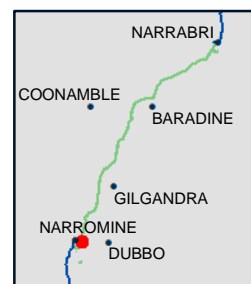
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LEGEND

Construction footprint	55 - 60
Structure type	60 - 65
Passive recreation	65 - 70
Noise level (dBA L_{Aeq} 15 minute)	70 - 75
40 - 45	> 75
45 - 50	
50 - 55	



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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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

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40

■ 40 - 45



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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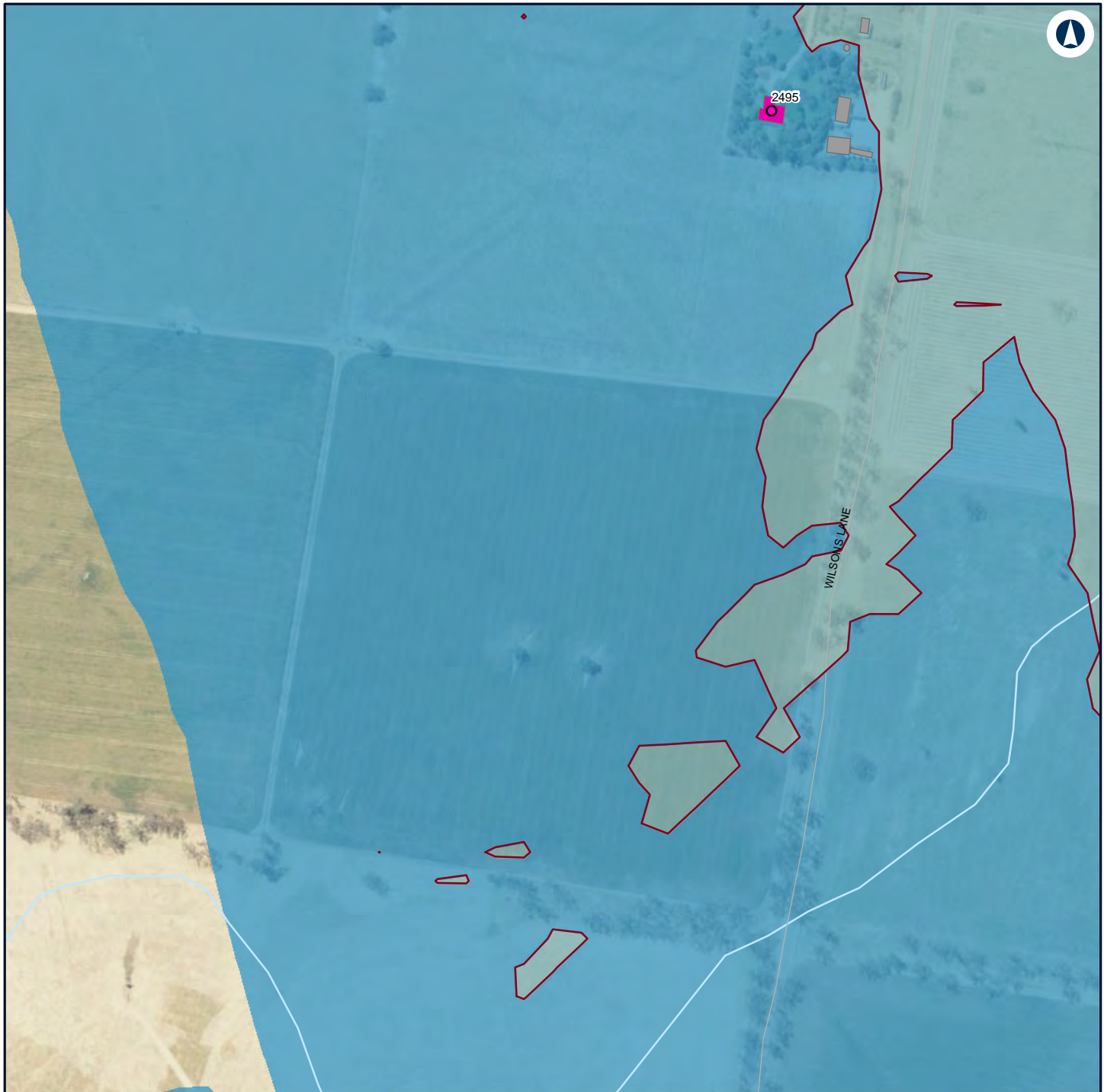
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LEGEND

Structure type

● Residential

■ Other

■ Residential

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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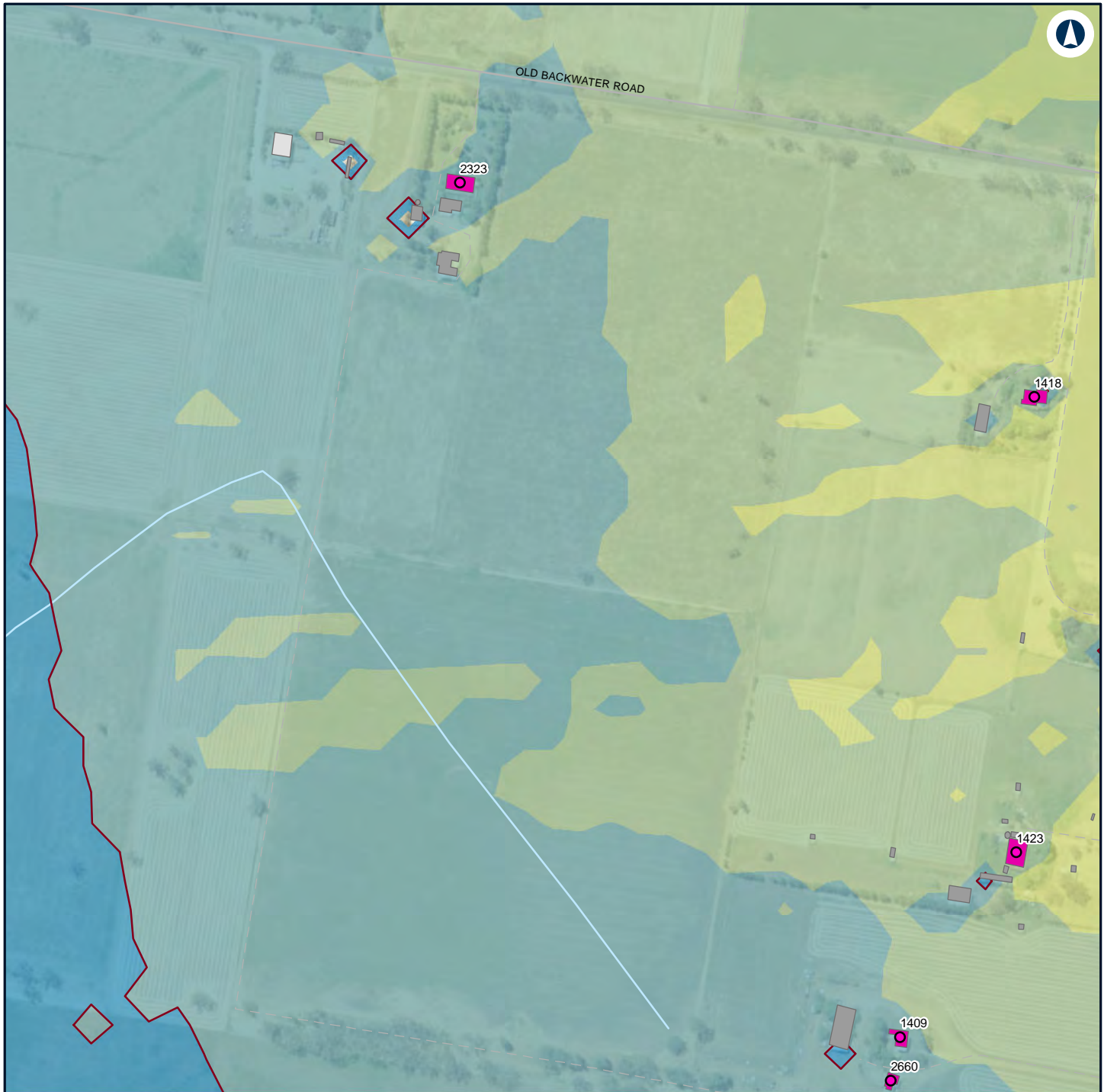
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Scale: 1:5,000

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

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LEGEND

Structure type

- Residential
- Commercial/Industrial
- Other
- Residential
- Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

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



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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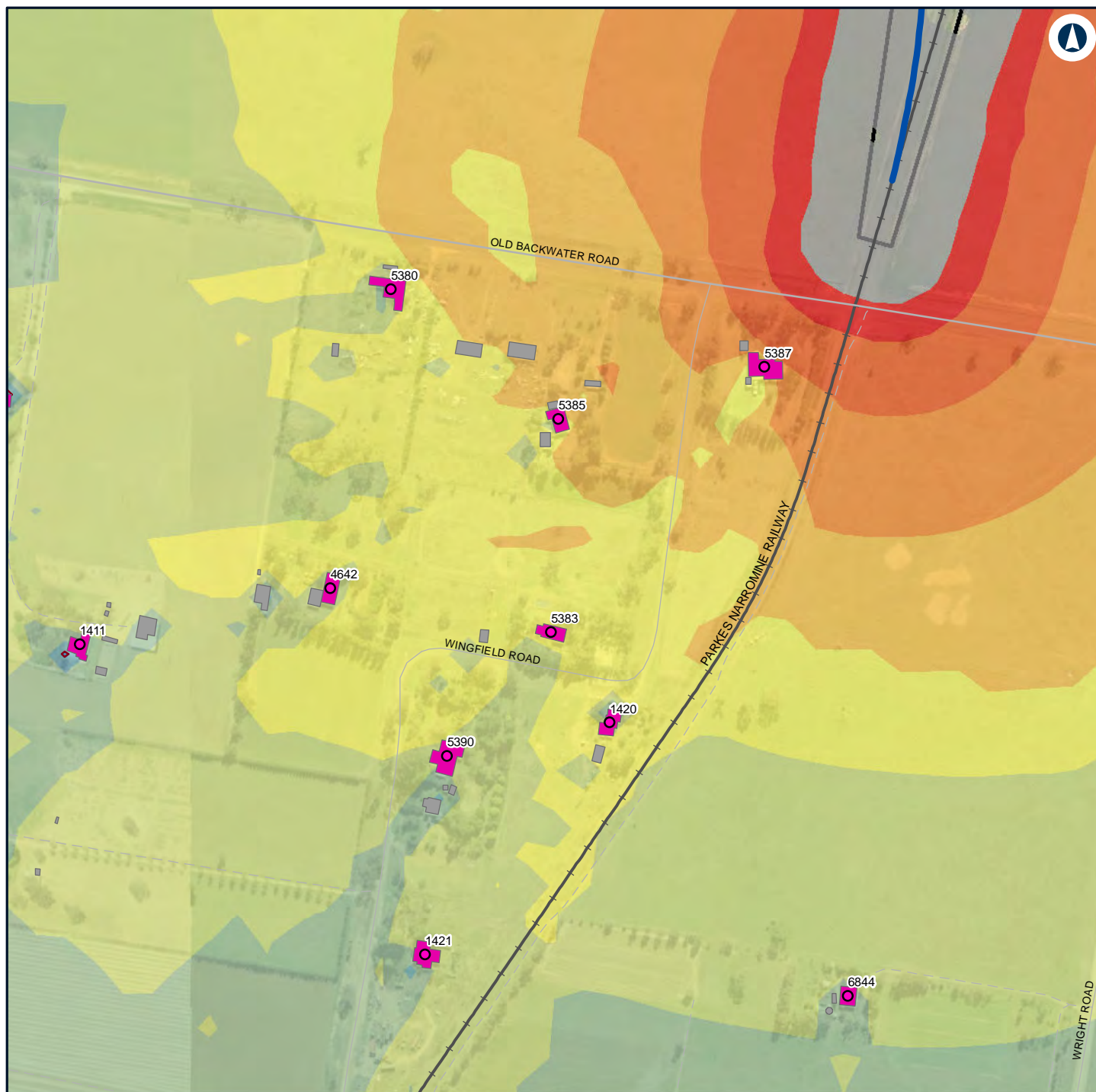
Author: GHD

Scale: 1:5,000

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

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LEGEND

Construction footprint

Structure type

Residential

Other

Residential

Alignment

Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

30 - 35

35 - 40

40 - 45

45 - 50

50 - 55

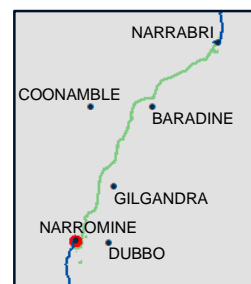
55 - 60

60 - 65

65 - 70

70 - 75

> 75



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

Appendix F - Page 43 of 298

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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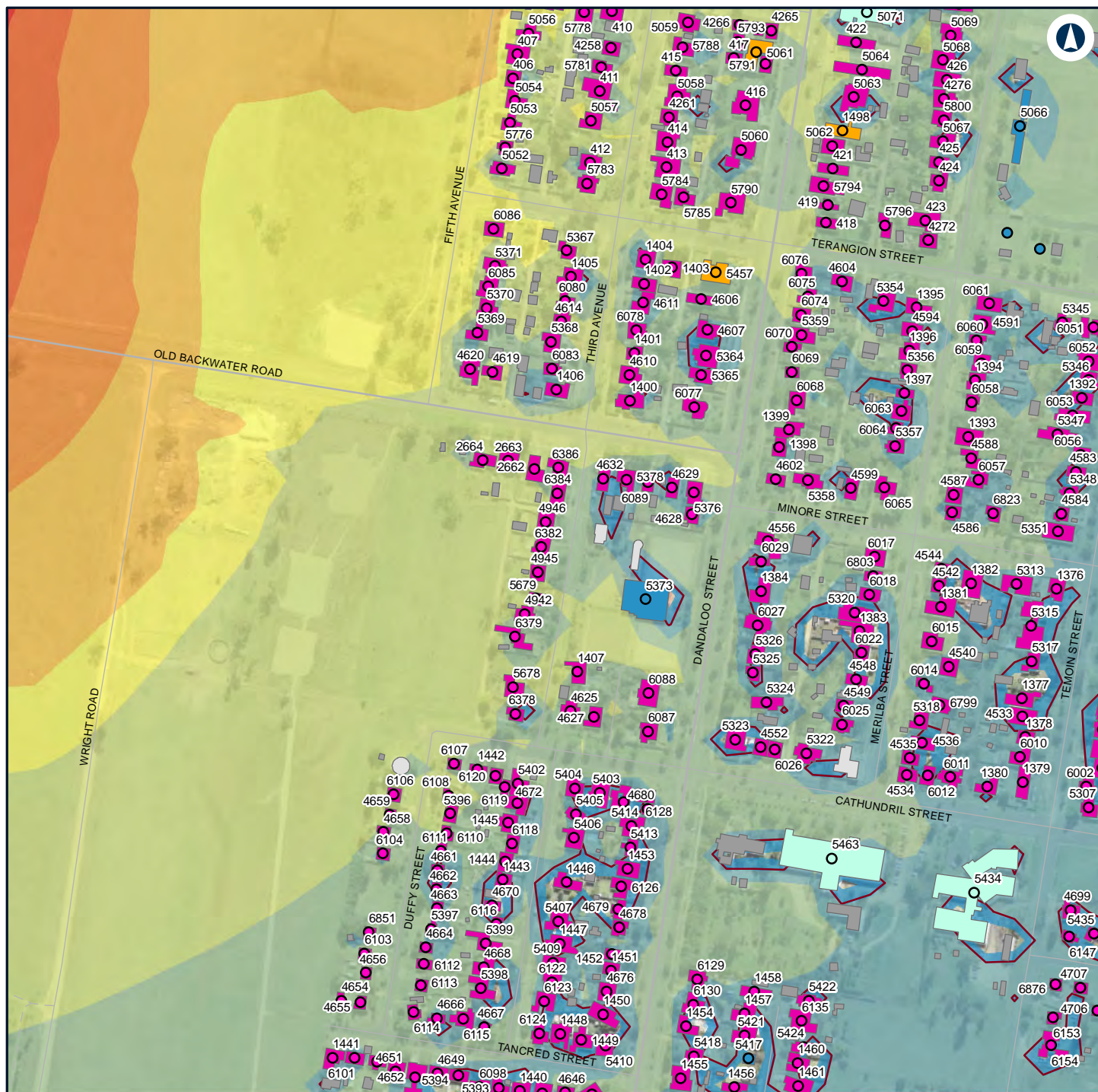
Author: GHD

Scale: 1:5,000

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

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LEGEND

Structure type

- Active recreation
- Health
- Residential
- Worship
- Active recreation
- Commercial/Industrial

Health

Other

Residential

Worship

Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

30 - 35

35 - 40

40 - 45

45 - 50

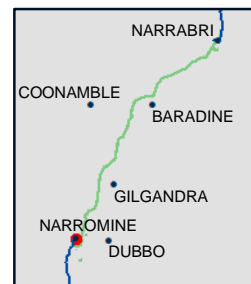
50 - 55

55 - 60

60 - 65

65 - 70

70 - 75



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

Appendix F - Page 44 of 298

0 0.1 0.2
Km

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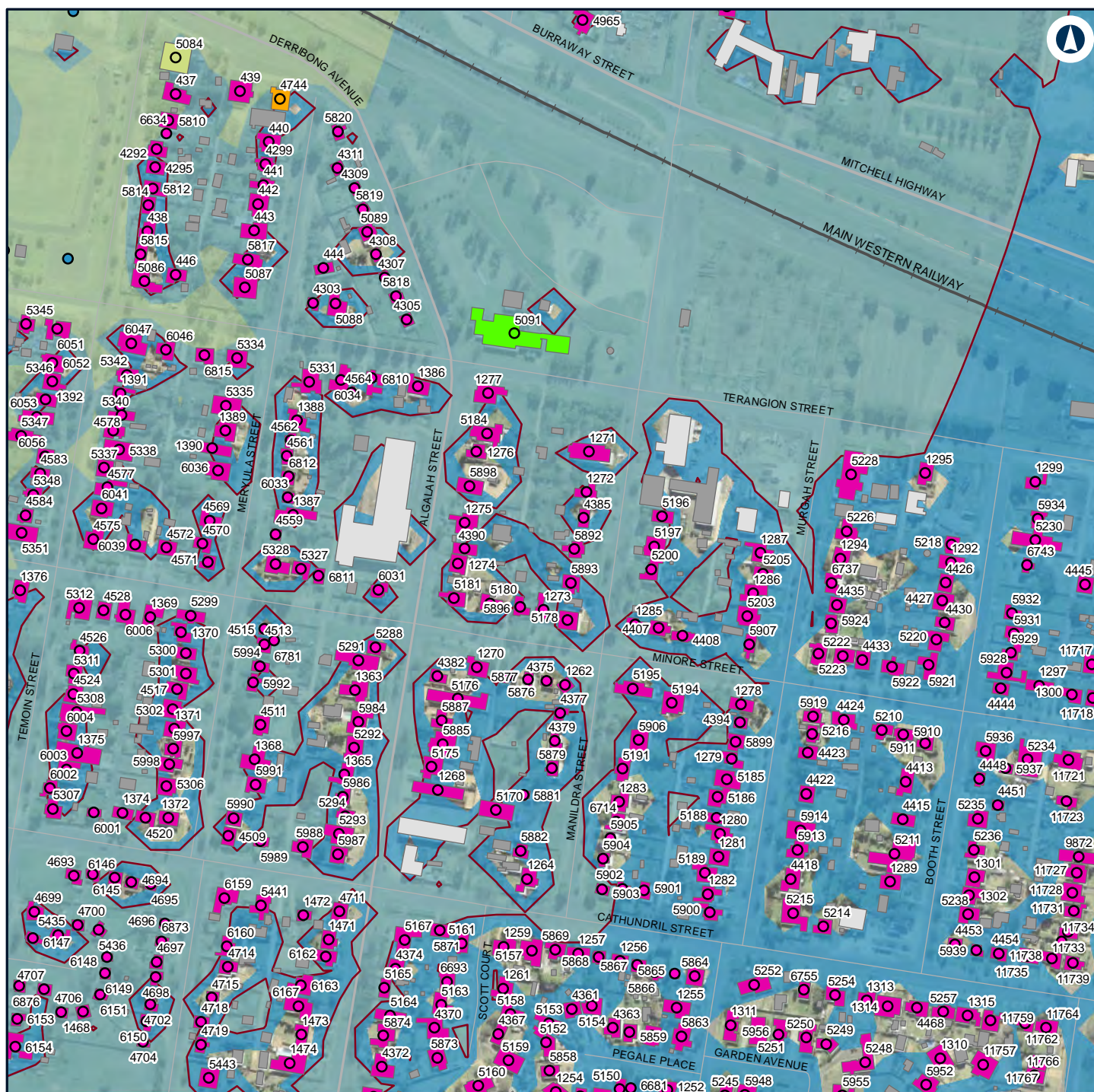
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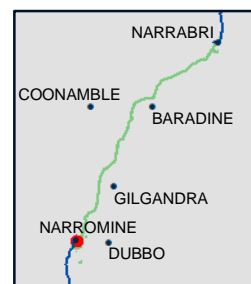
LEGEND

Structure type

- Active recreation
- Child care facility
- Educational
- Residential
- Worship
- Child care facility
- Commercial/Industrial
- Educational
- Other
- Residential
- Worship
- Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

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



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

Appendix F - Page 45 of 298

0 0.1 0.2 Km

Coordinate System: GDA 1994 MGA Zone 55

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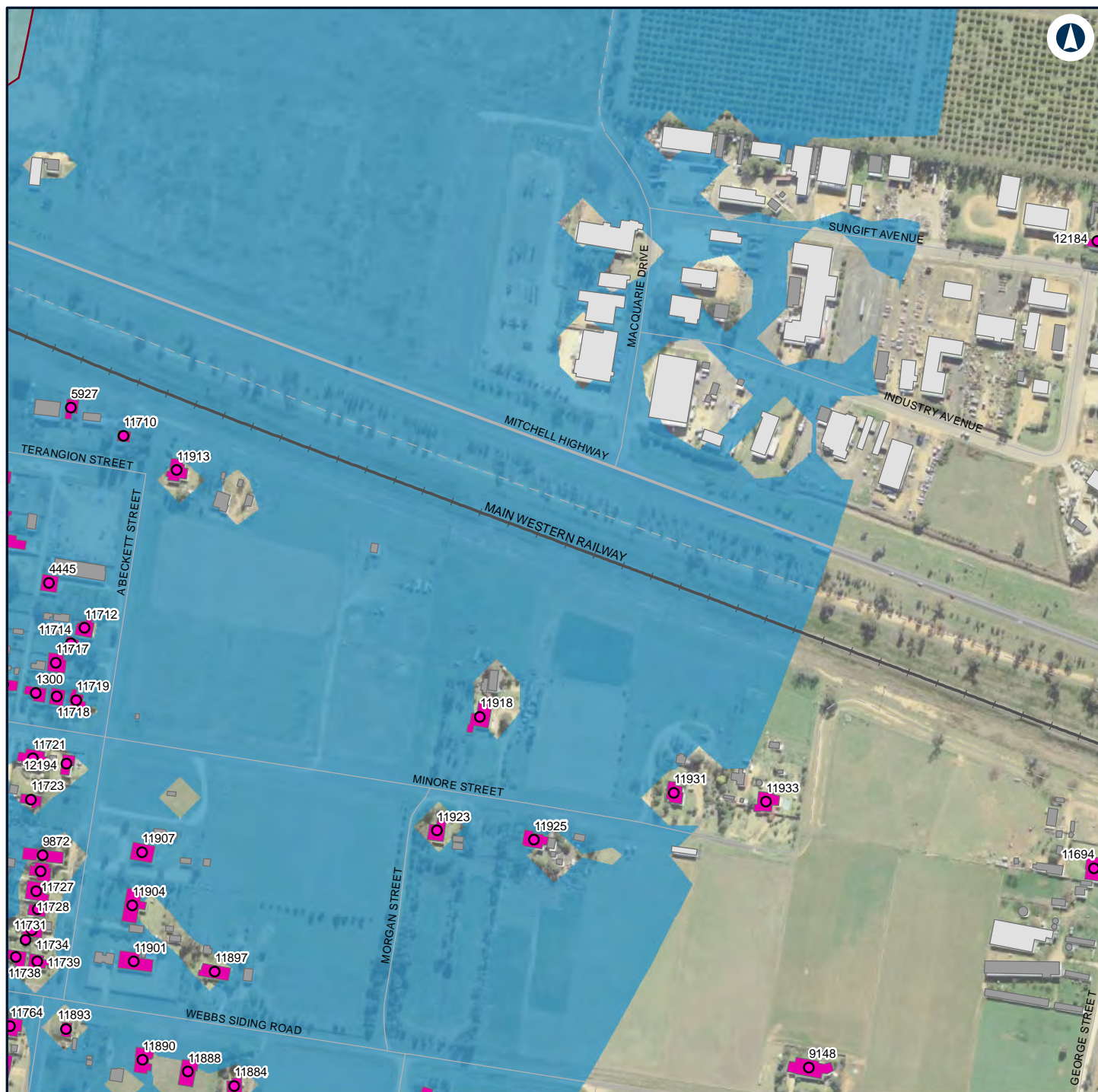
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Scale: 1:5,000

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

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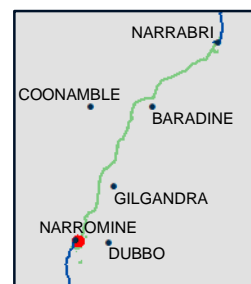
LEGEND

Structure type

- Residential
- Commercial/Industrial
- Other
- Residential
- Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

- 30 - 35
- 35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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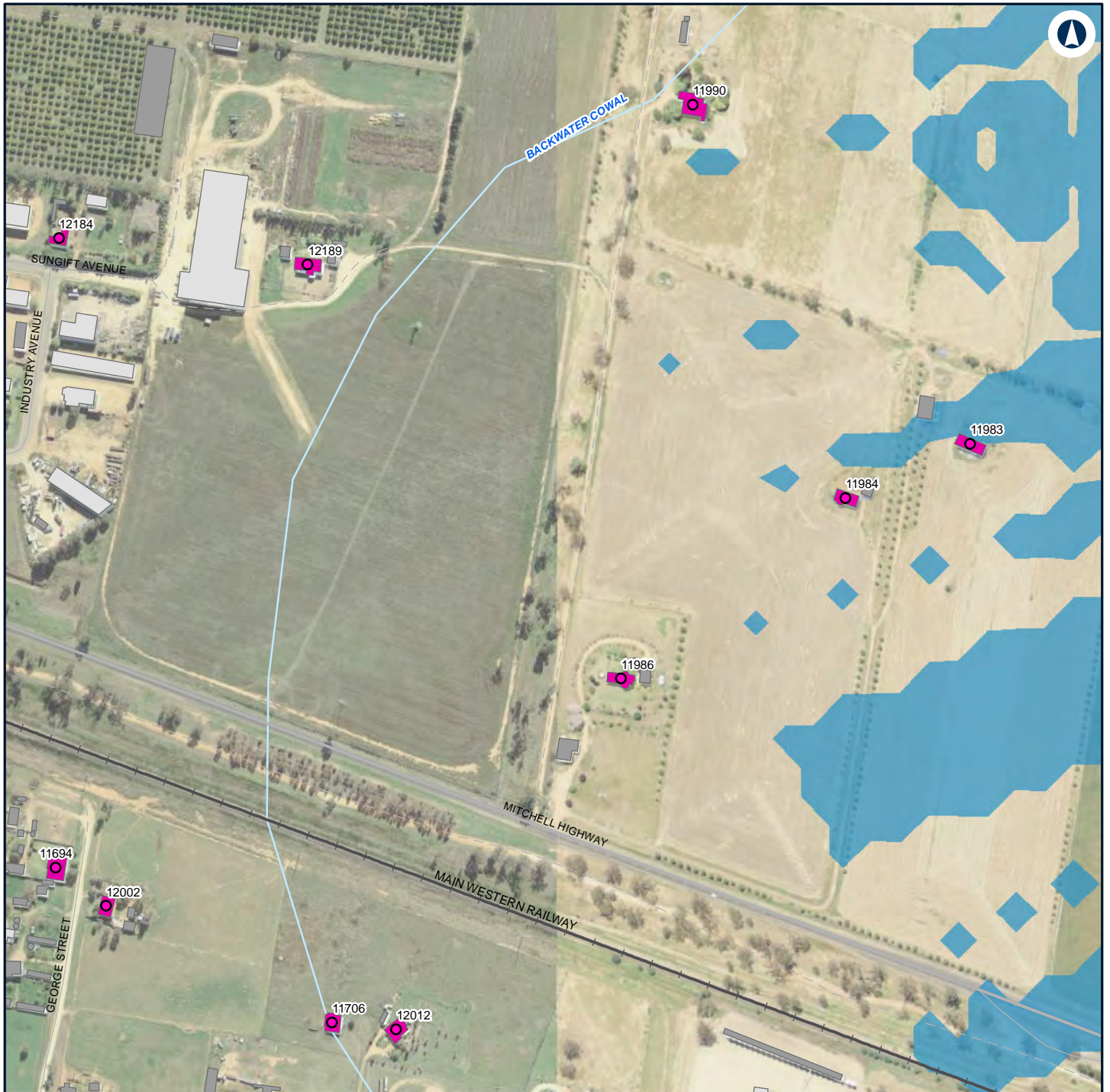
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

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LEGEND

Structure type

- Residential
- Commercial/Industrial
- Other
- Residential

Noise level (dBA L_{Aeq} 15 minute)

- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

Appendix F - Page 47 of 298

0 0.1 0.2
Km

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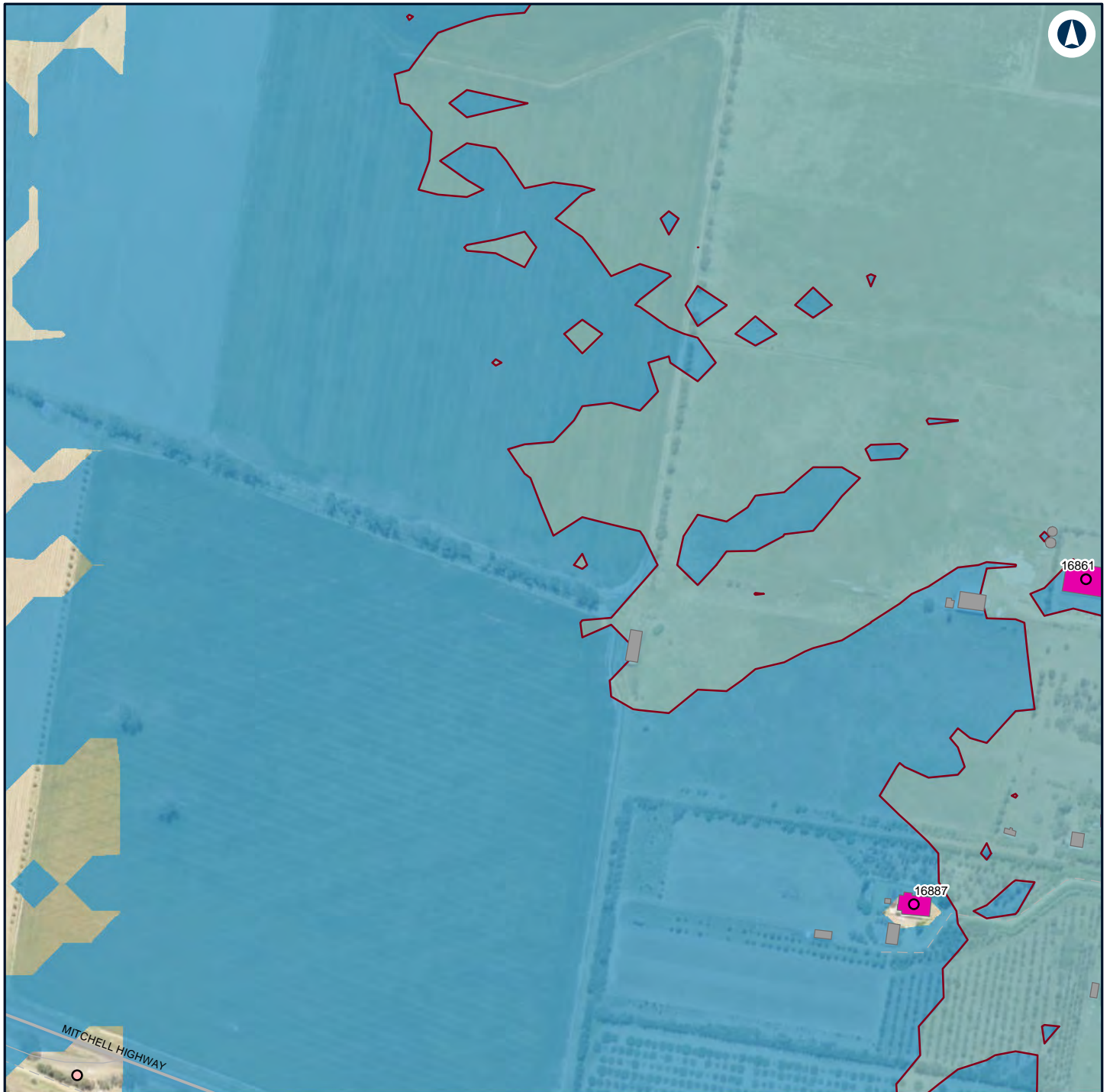
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Scale: 1:5,000

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

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LEGEND

Structure type

○ Passive recreation

● Residential

■ Other

■ Residential

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

30 - 35

35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

Appendix F - Page 48 of 298

0 0.1 0.2
Km

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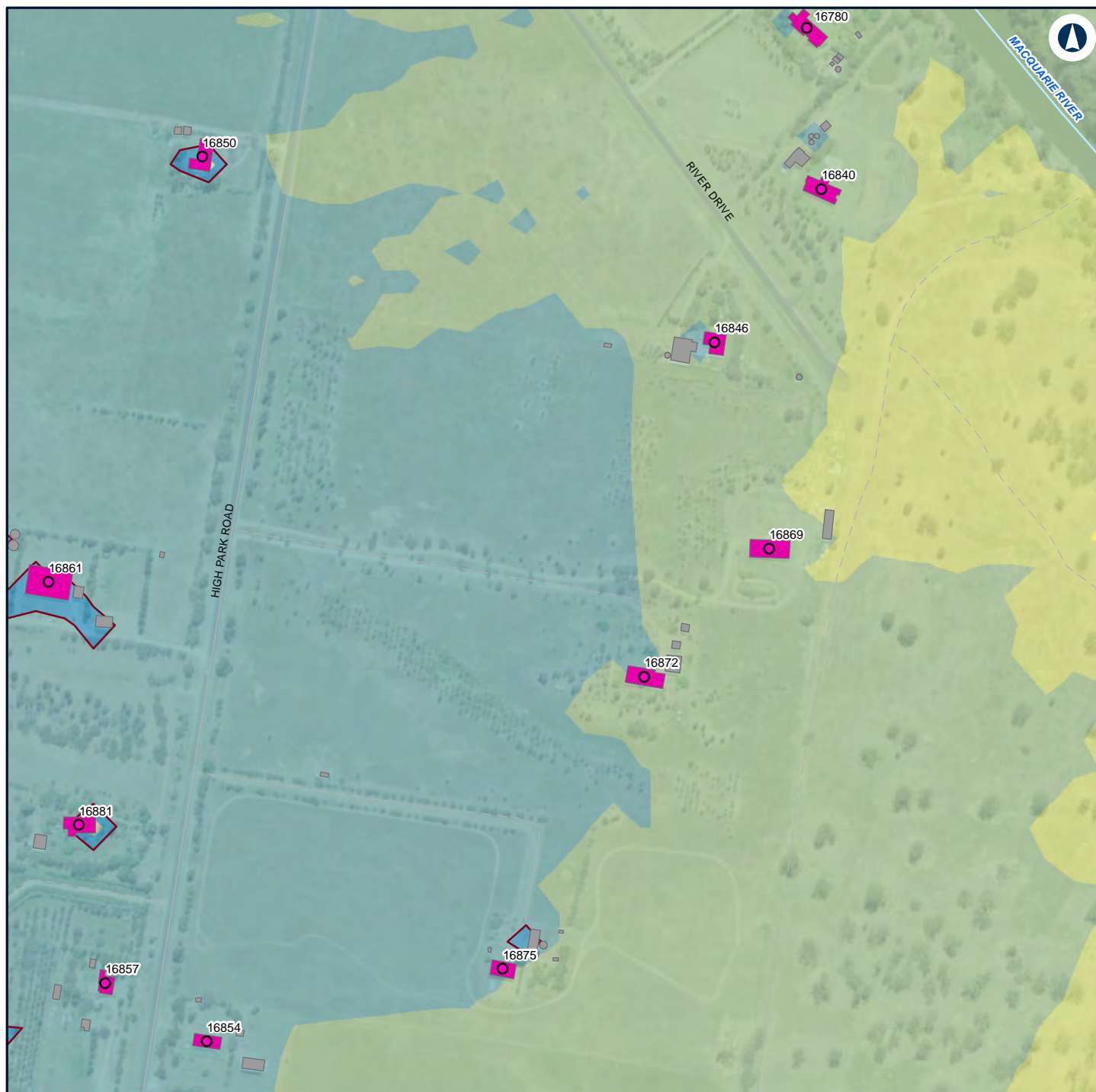
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Scale: 1:5,000

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

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LEGEND

Structure type

Residential

Other

Residential

Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

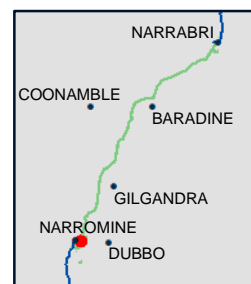
30 - 35

35 - 40

40 - 45

45 - 50

50 - 55



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

Appendix F - Page 49 of 298

0 0.1 0.2
Km

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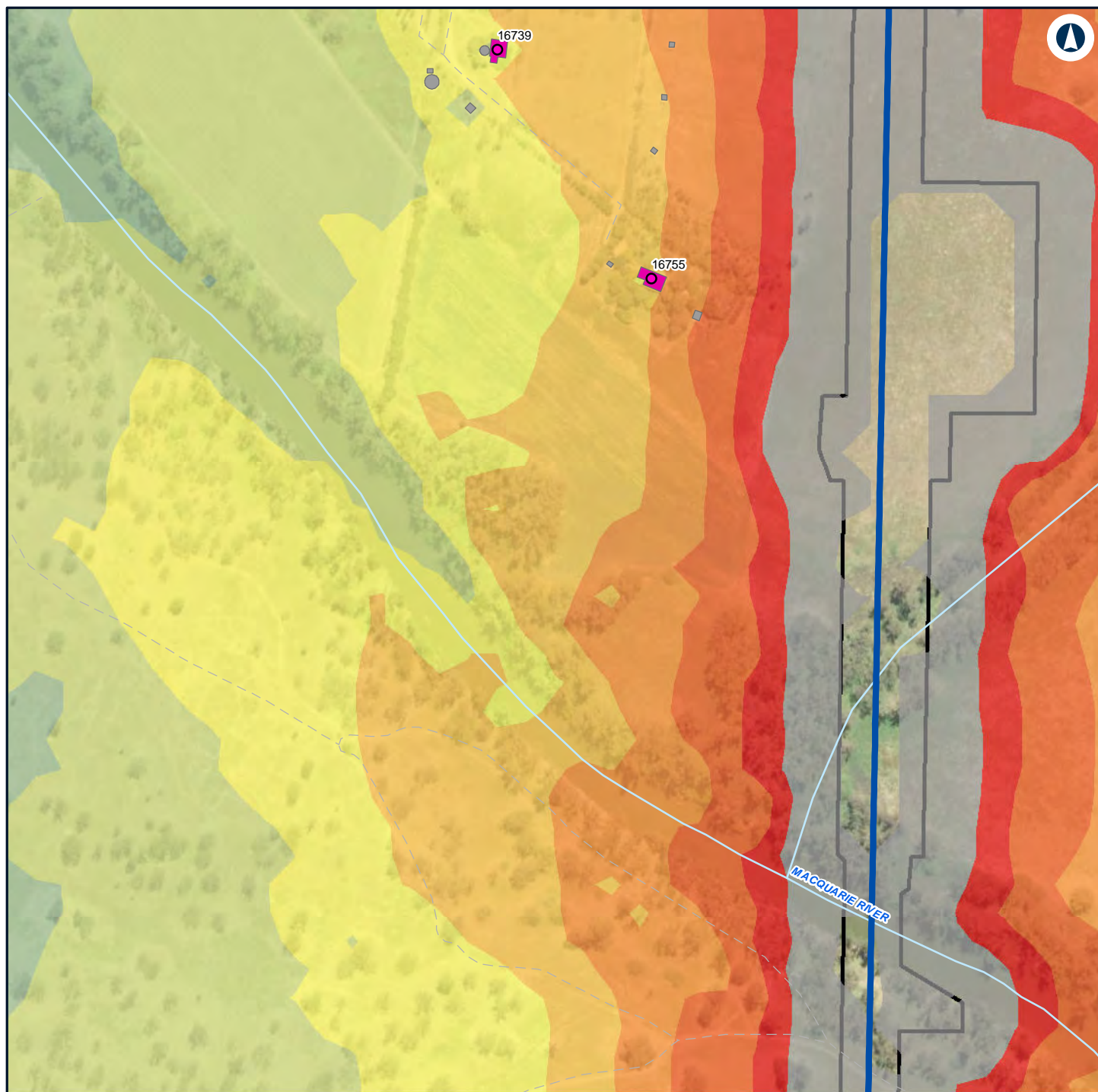
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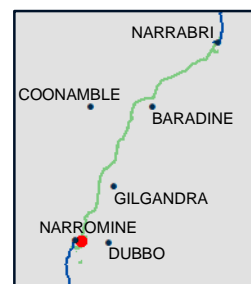
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LEGEND

	Construction footprint	Noise level (dBA L_{Aeq} 15 minute)		70 - 75
	Residential			> 75
	Other			
	Residential			
	Alignment			



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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LEGEND

Structure type

● Residential

■ Other

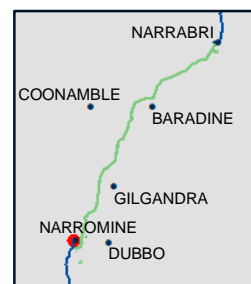
■ Residential

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

Appendix F - Page 51 of 298

0 0.1 0.2
Km

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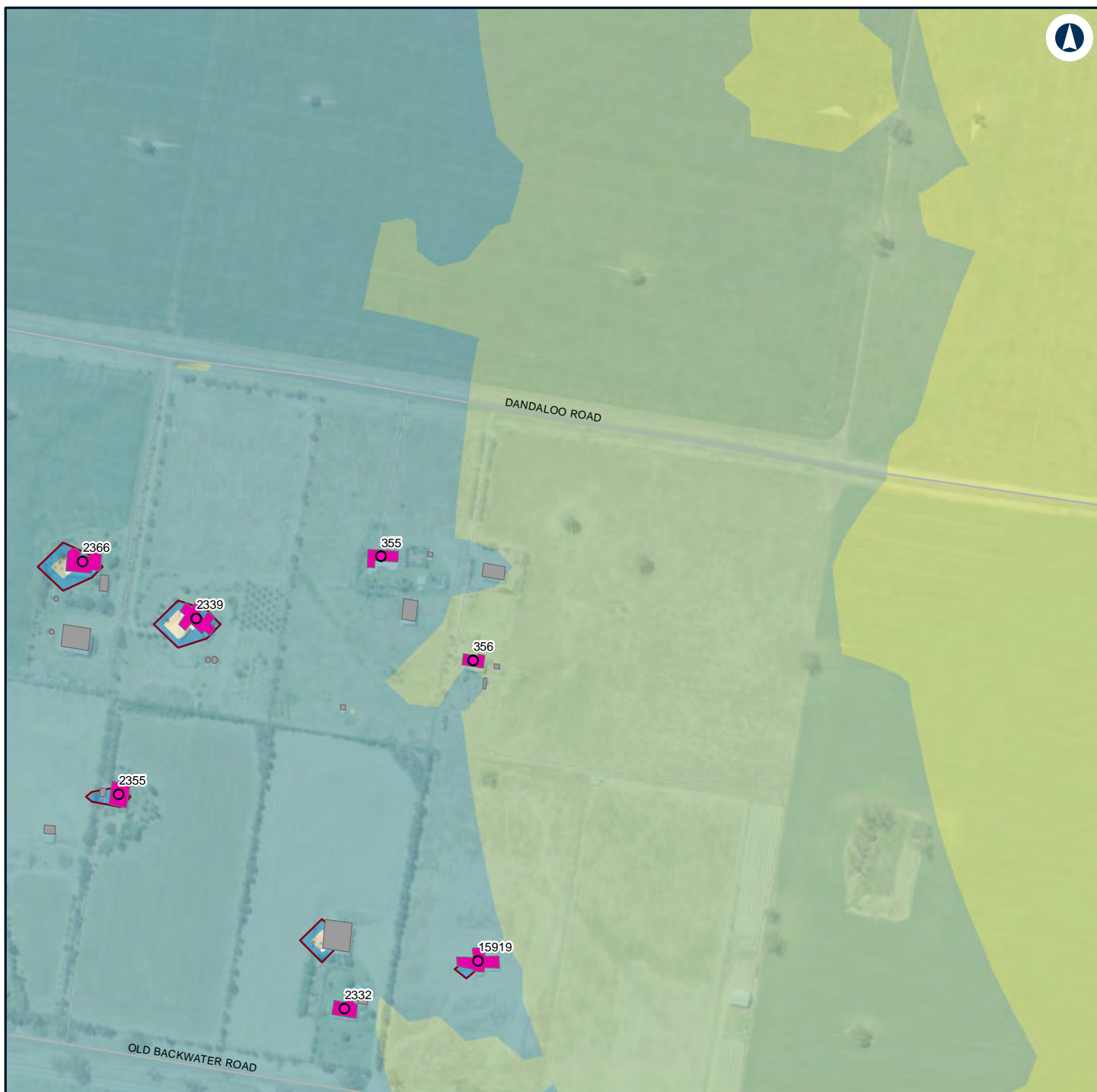
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Scale: 1:5,000

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LEGEND

Structure type

- Residential
- Other

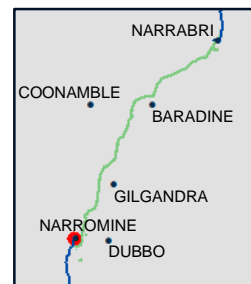
■ Residential

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40
■ 40 - 45
■ 45 - 50



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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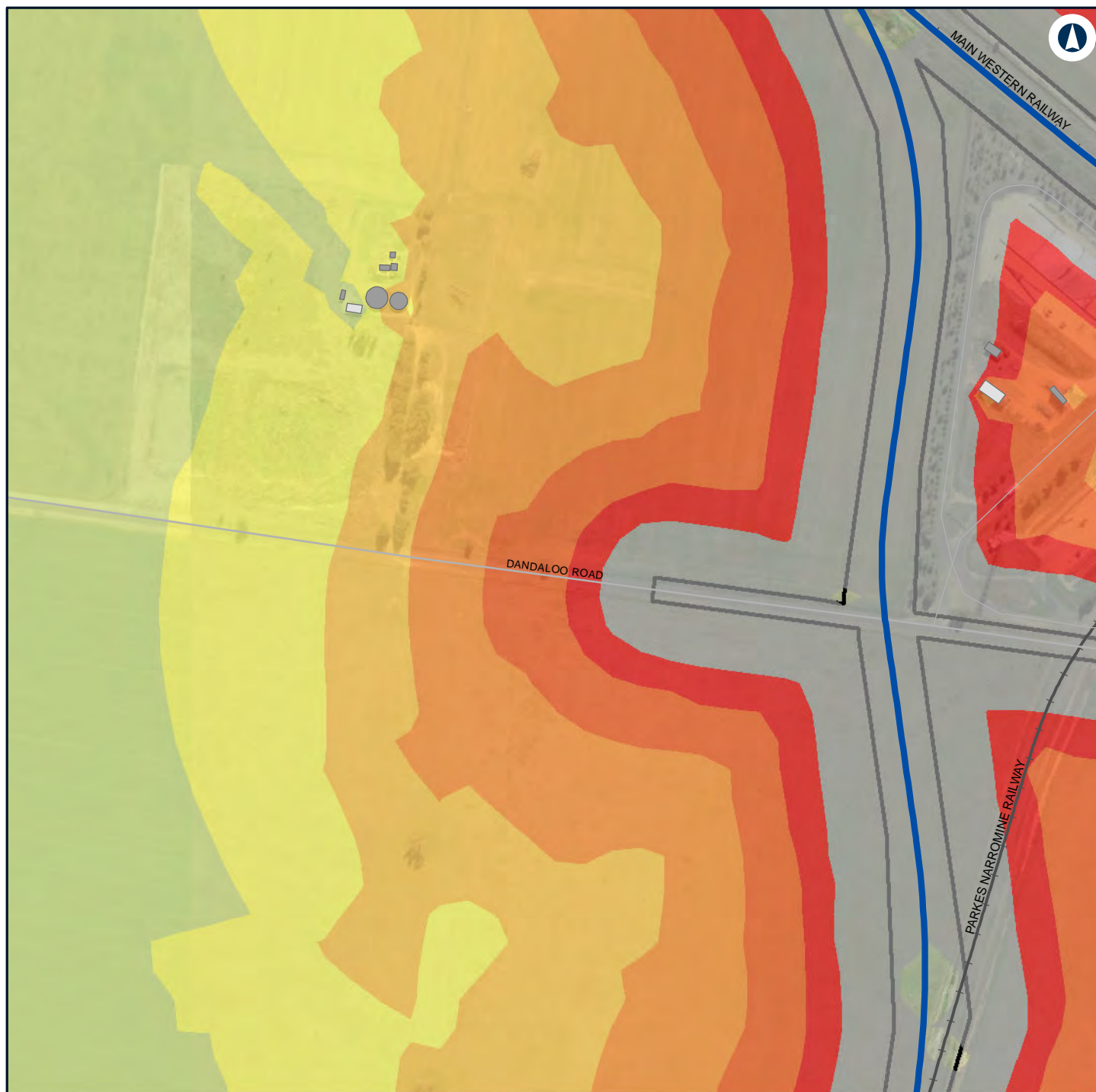
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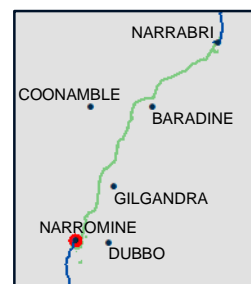
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LEGEND

Construction footprint	45 - 50
Commercial/Industrial	50 - 55
Other	55 - 60
Alignment	60 - 65
Noise level (dBA L_{Aeq} 15 minute)	65 - 70
	70 - 75
	> 75
30 - 35	
40 - 45	



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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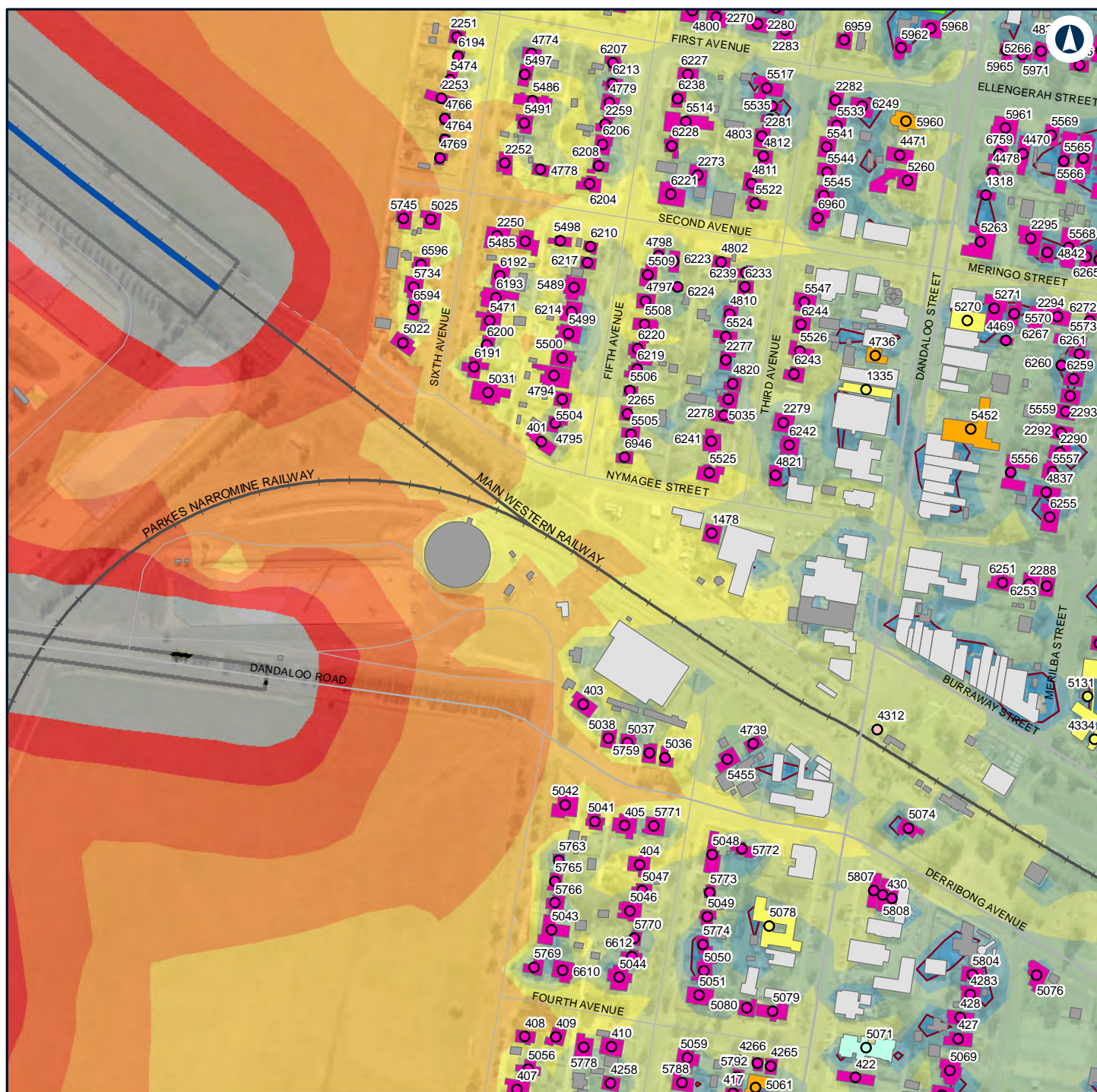
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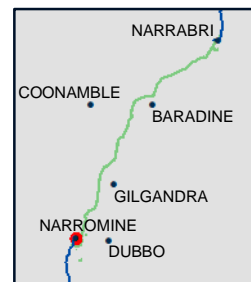
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LEGEND

Construction footprint	Commercial/Industrial	Worship	45 - 50
Structure type	Community	Alignment	50 - 55
Community	Educational	Night-time noise management level	55 - 60
Health	Health	Noise level (dBA L_{Aeq} 15 minute)	60 - 65
Passive recreation	Other	30 - 35	65 - 70
Residential	Passive recreation	35 - 40	70 - 75
Worship	Residential	40 - 45	> 75



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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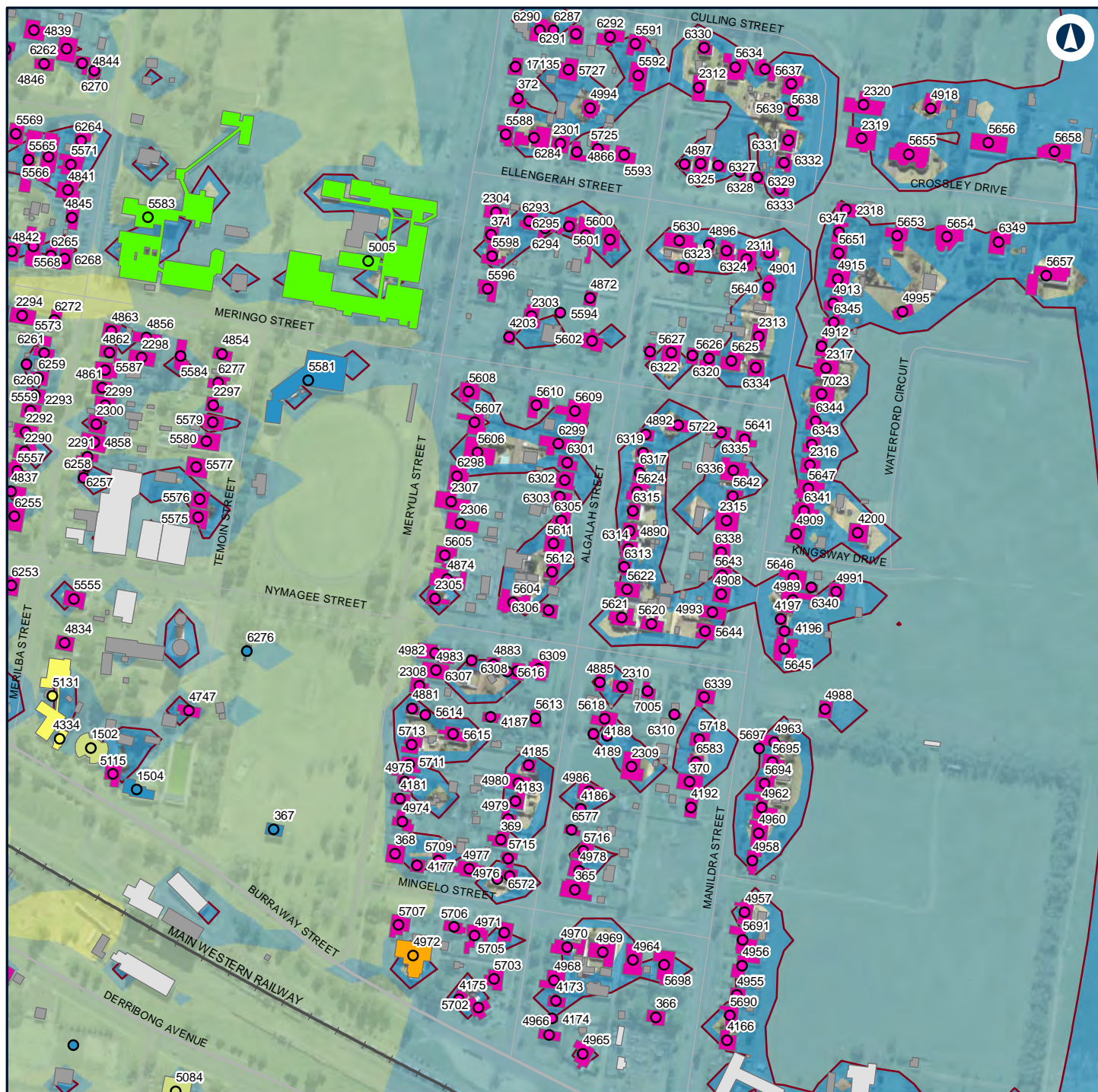
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

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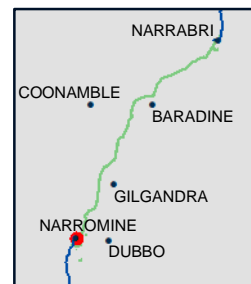
LEGEND

Structure type

- Active recreation
- Child care facility
- Community
- Educational
- Residential
- Worship
- Active recreation
- Child care facility
- Commercial/Industrial
- Community
- Educational
- Other
- Residential
- Worship

Noise level (dBA L_{Aeq} 15 minute)

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



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2 Km

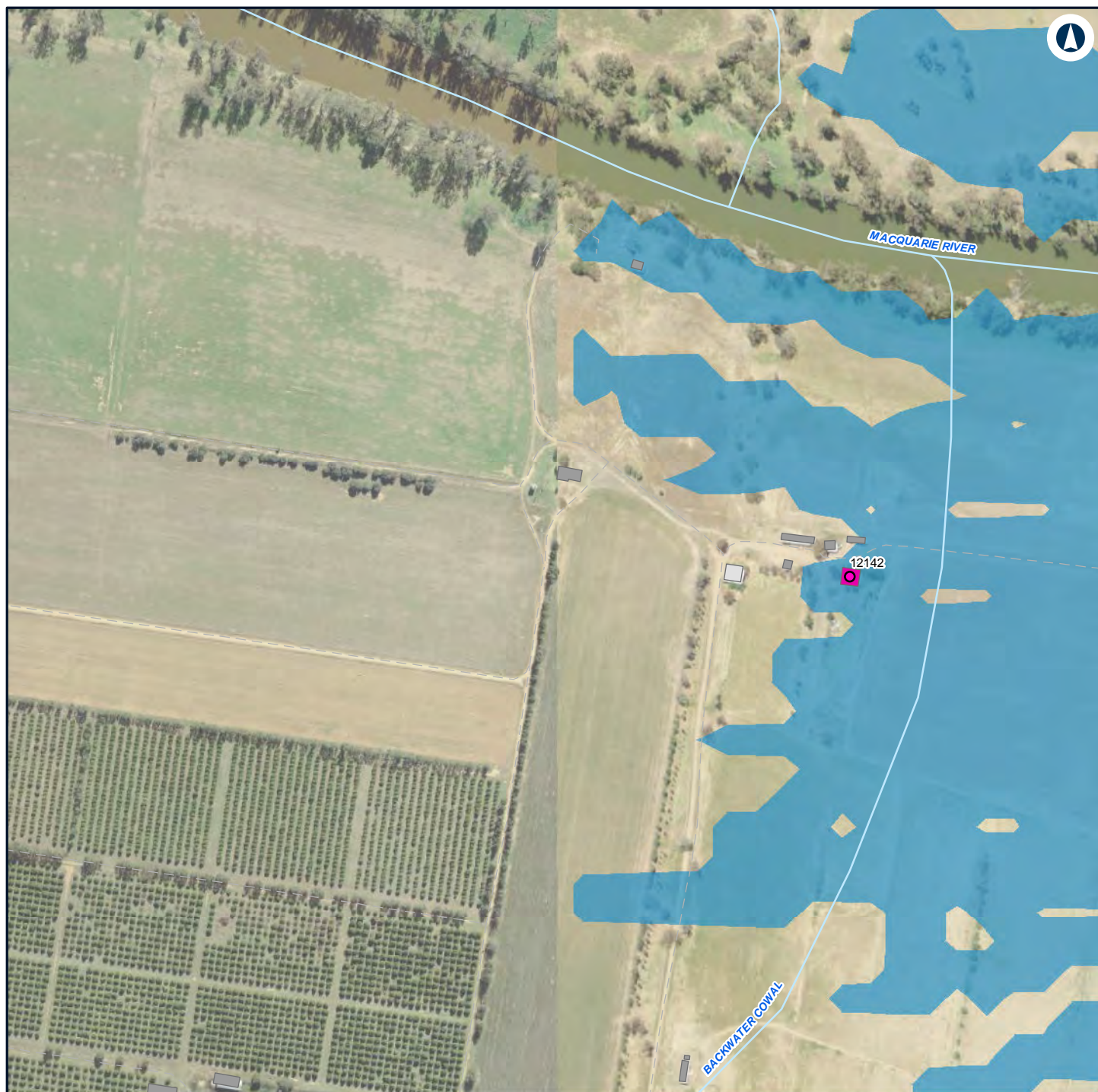
Coordinate System: GDA 1994 MGA Zone 55

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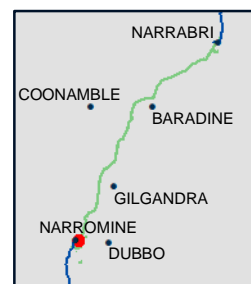
LEGEND

Structure type

- Residential
- Commercial/Industrial
- Other
- Residential

Noise level (dBA L_{Aeq} 15 minute)

- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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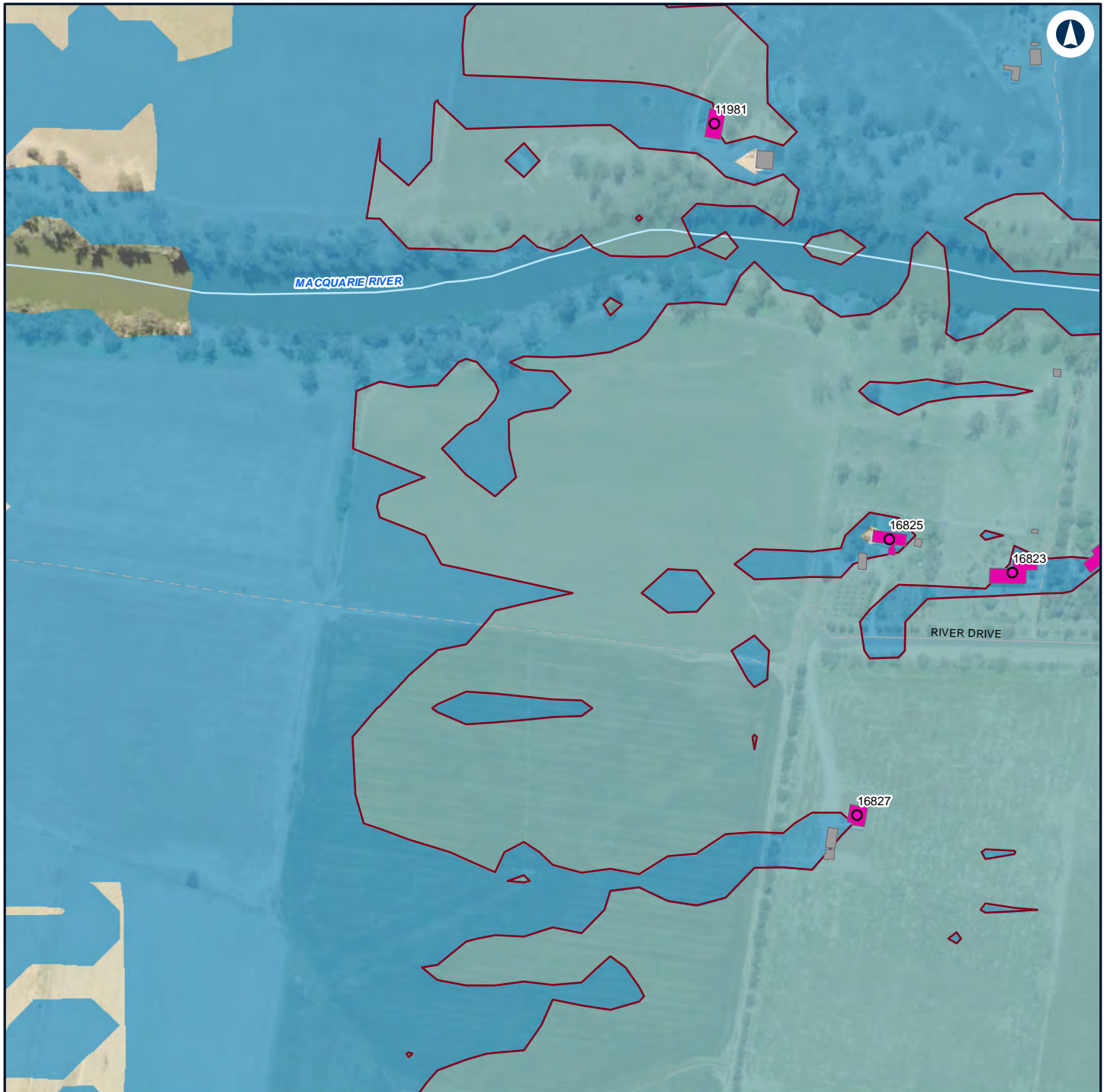
Author: GHD

Scale: 1:5,000

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

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LEGEND

Structure type

● Residential

■ Other

■ Residential

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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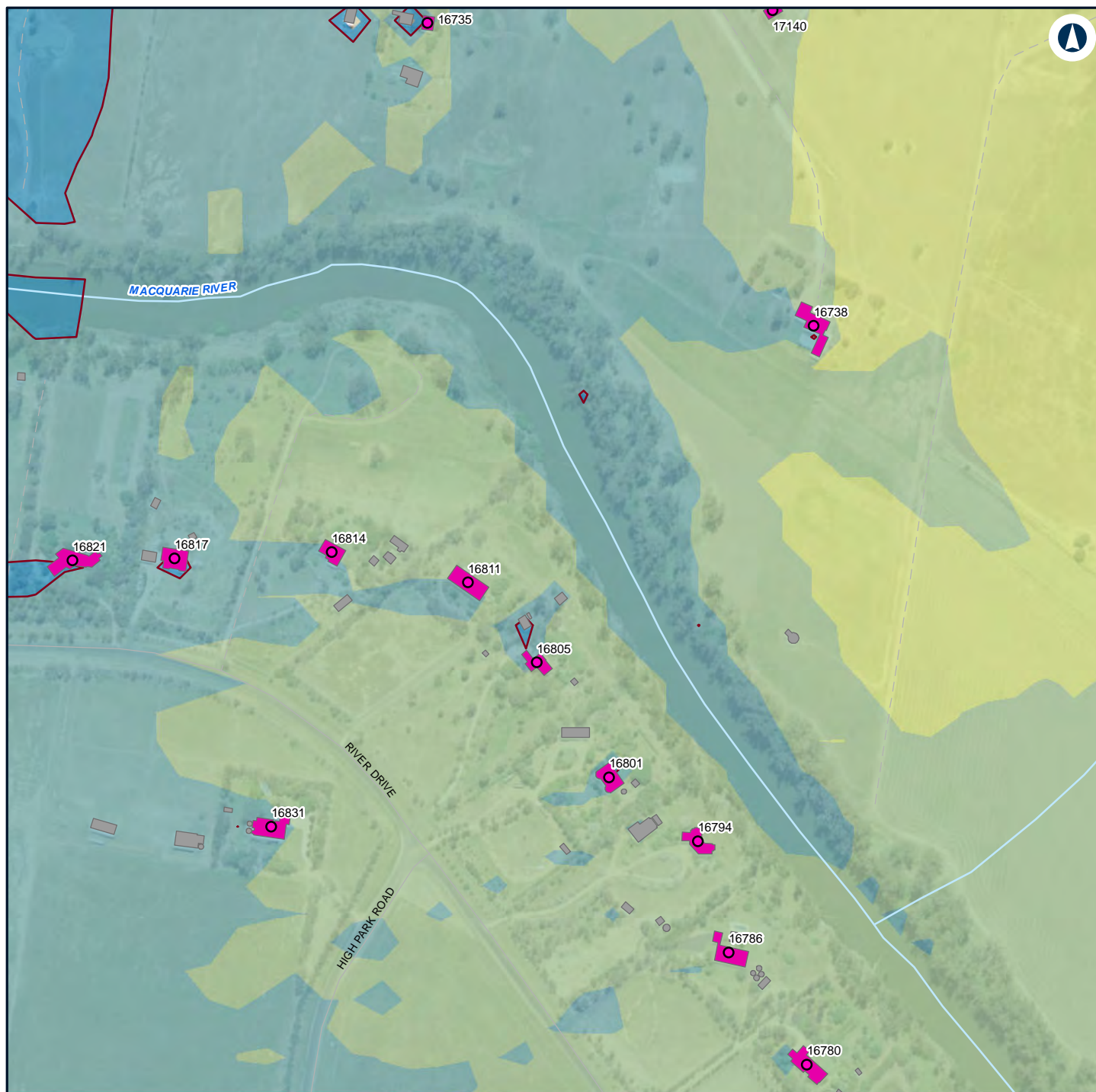
Author: GHD

Scale: 1:5,000

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

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LEGEND

Structure type

Residential

Other

Residential

Night-time noise management level

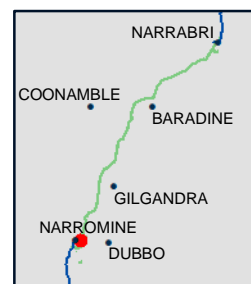
Noise level (dBA L_{Aeq} 15 minute)

30 - 35

35 - 40

40 - 45

45 - 50



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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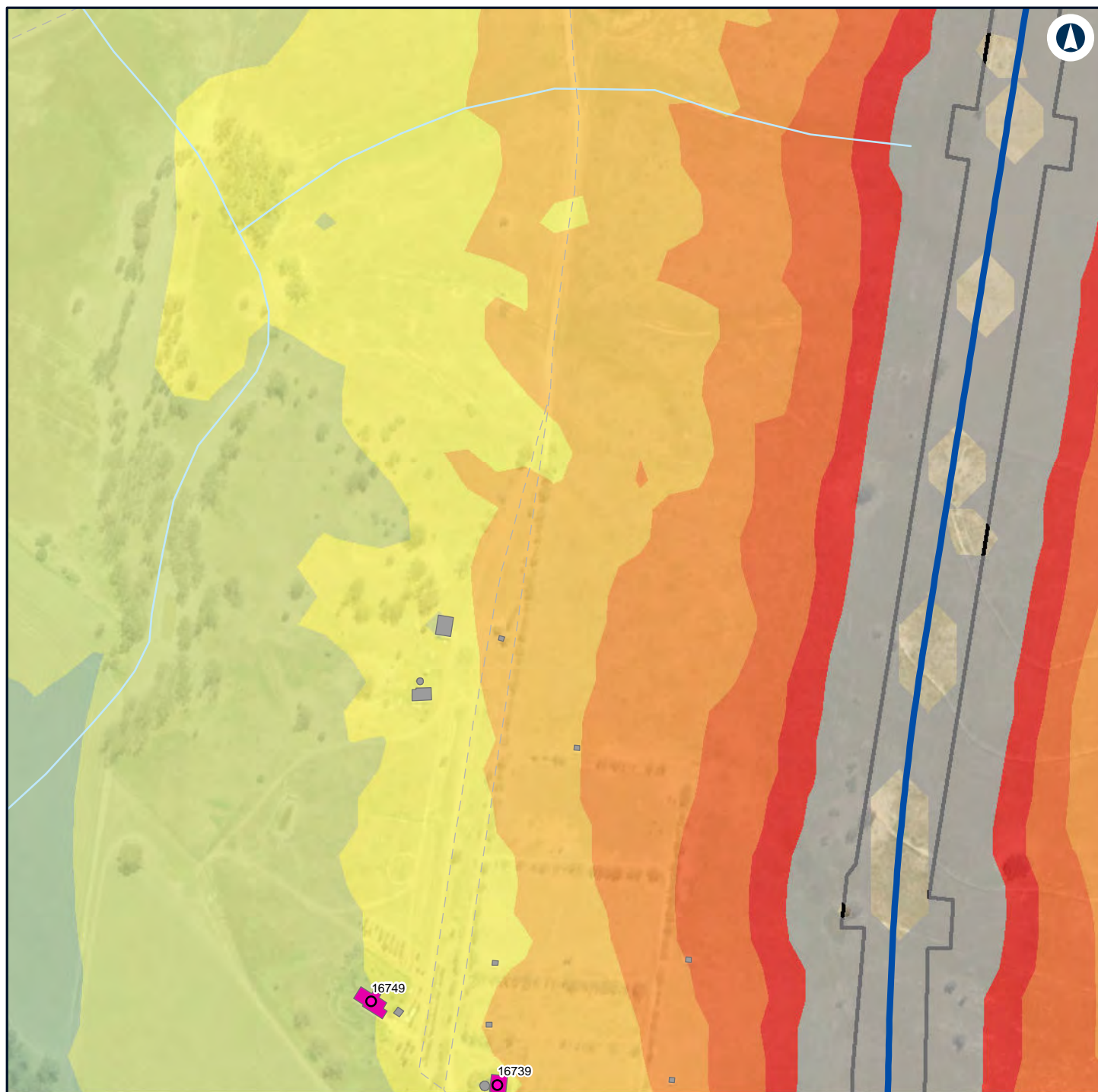
Author: GHD

Scale: 1:5,000

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

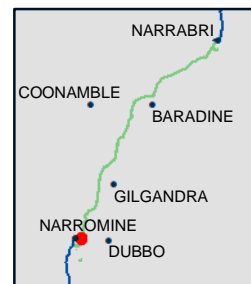
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LEGEND

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



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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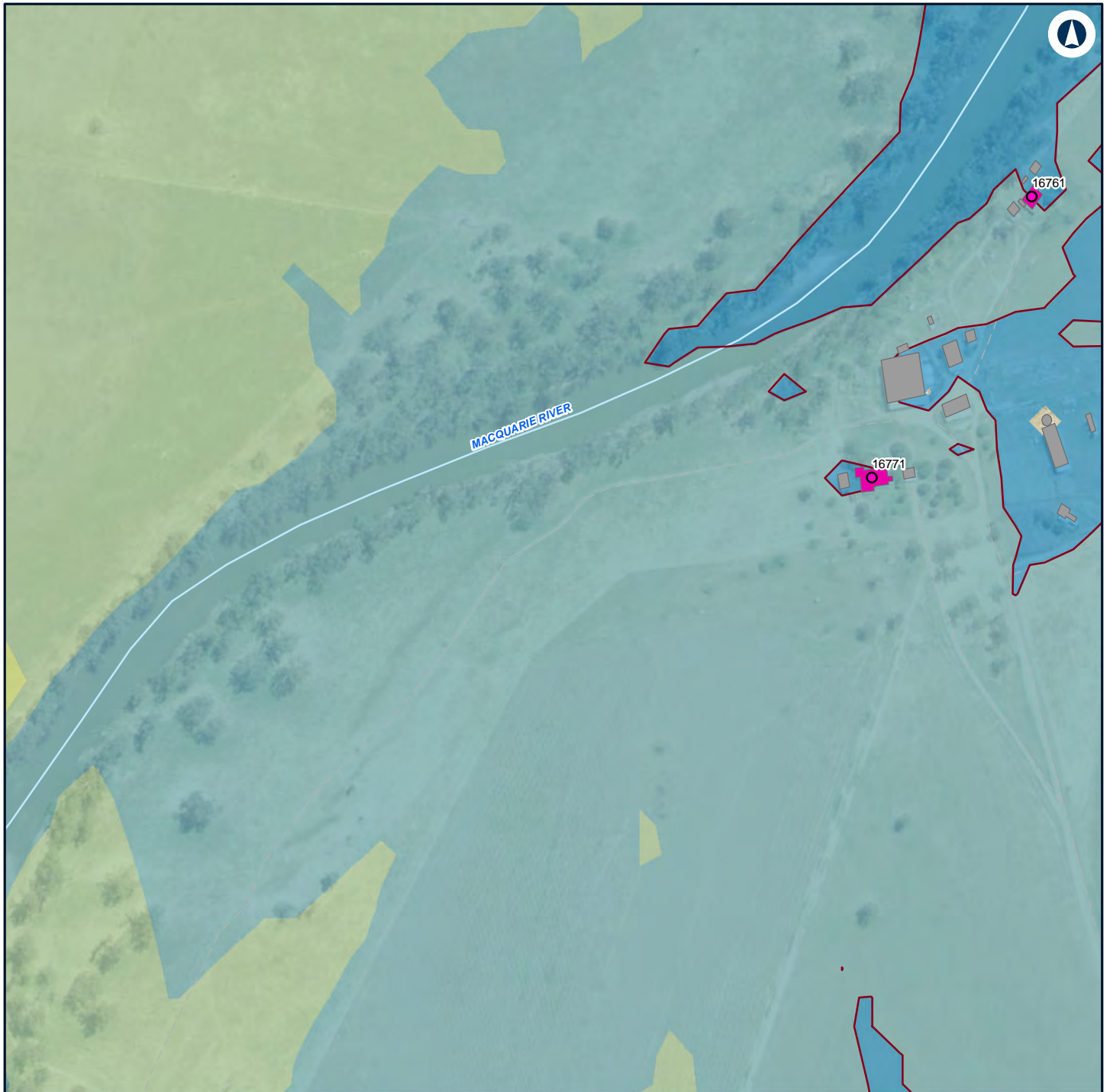
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Scale: 1:5,000

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

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LEGEND

Structure type

● Residential

■ Other

■ Residential

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40

■ 40 - 45

■ 45 - 50



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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LEGEND

Structure type

Residential

Other

Residential

Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

30 - 35

35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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LEGEND

Structure type

Residential

Other

Residential

Night-time noise management level

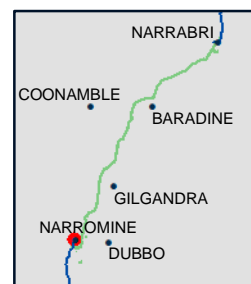
Noise level (dBA L_{Aeq} 15 minute)

30 - 35

35 - 40

40 - 45

45 - 50



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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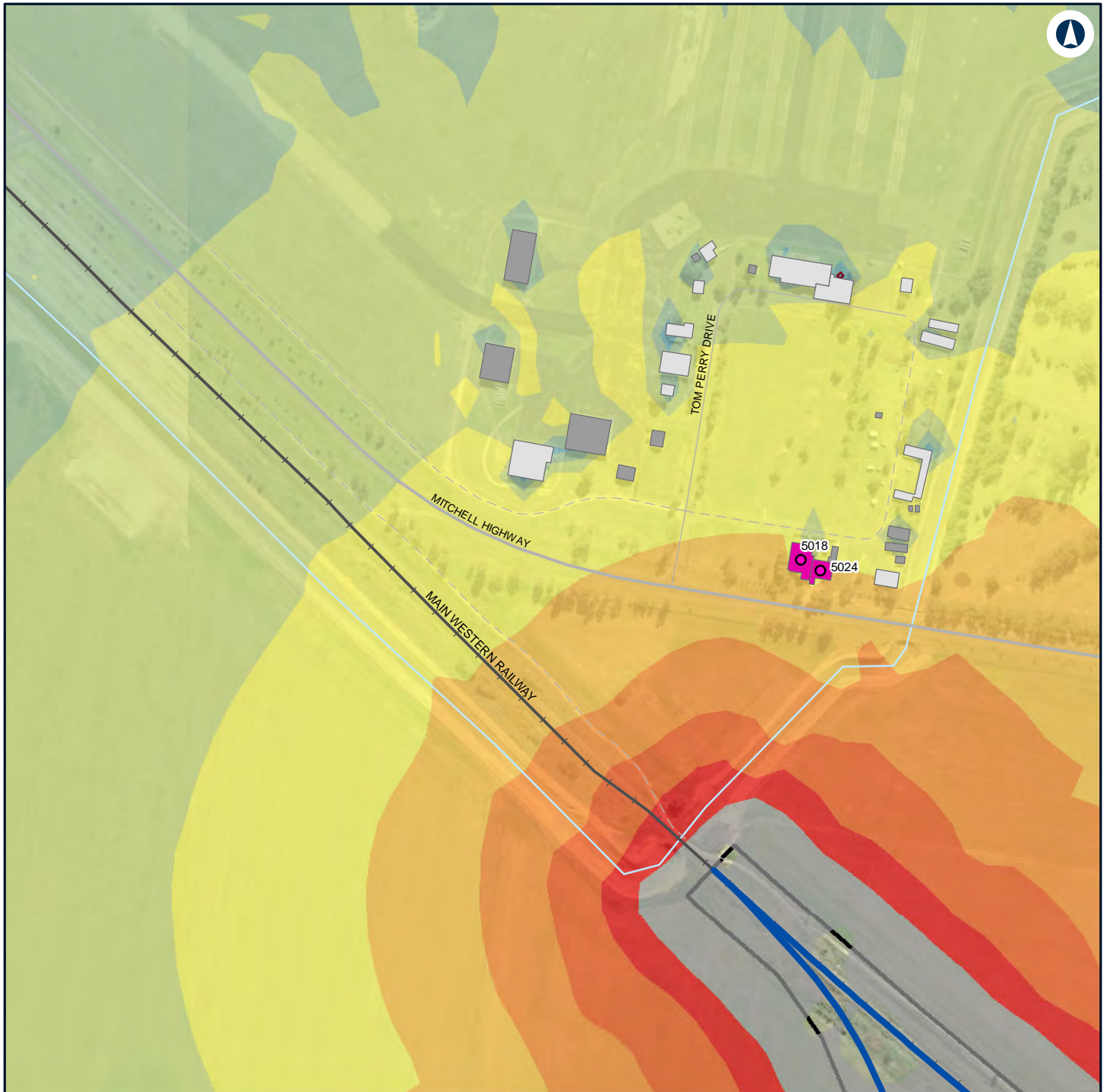
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

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LEGEND

	Construction footprint		Night-time noise management level		55 - 60
	Structure type		Noise level (dBA L _{Aeq} 15 minute)		60 - 65
	Residential				65 - 70
	Commercial/Industrial				70 - 75
	Other				> 75
	Residential				
	Alignment				



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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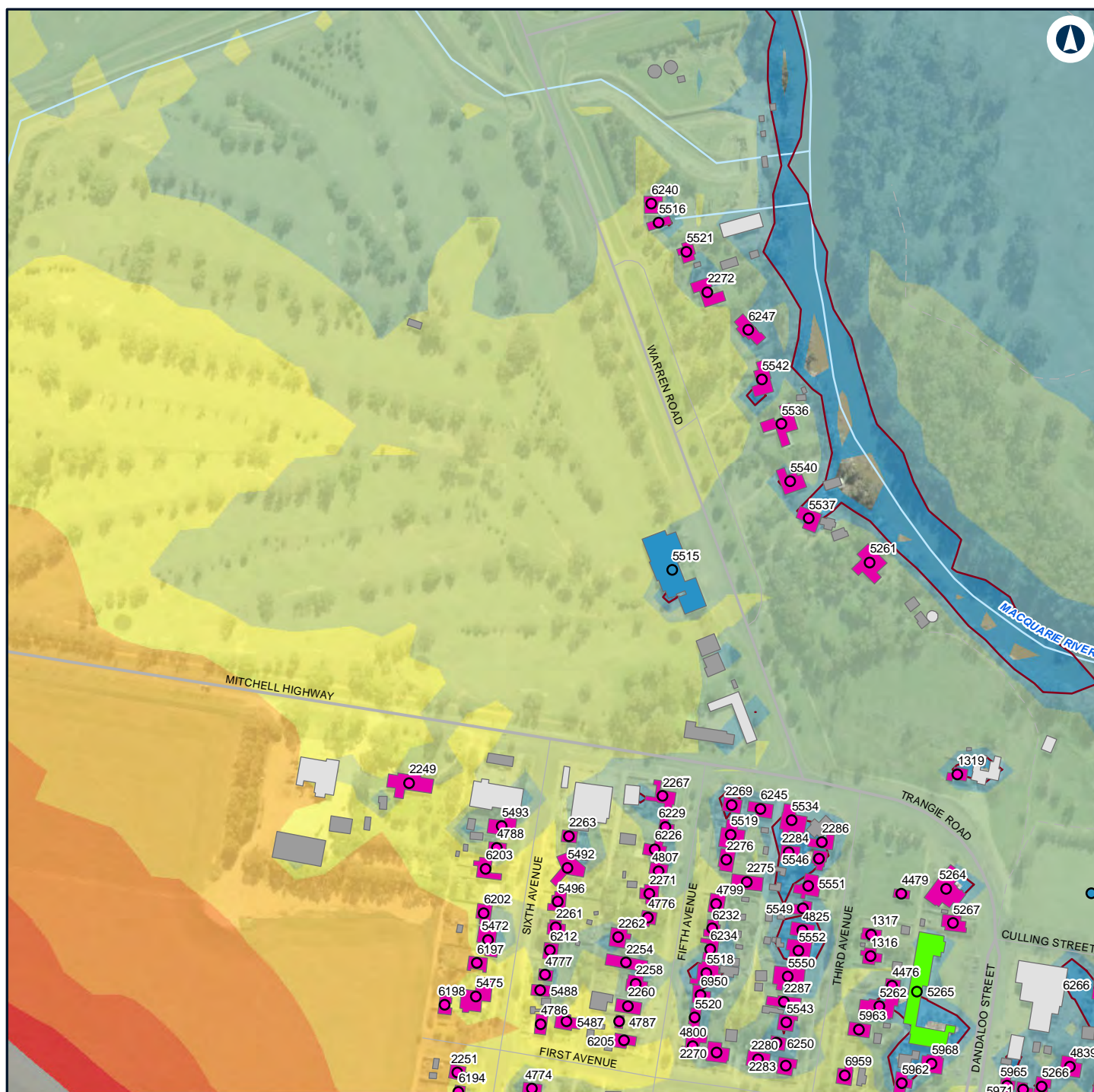
Author: GHD

Scale: 1:5,000

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

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LEGEND

Structure type

- Active recreation
- Educational
- Residential
- Active recreation
- Commercial/Industrial
- Educational

Other

Residential

Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

30 - 35

35 - 40

40 - 45

45 - 50

50 - 55

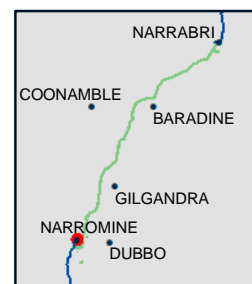
55 - 60

60 - 65

65 - 70

70 - 75

> 75



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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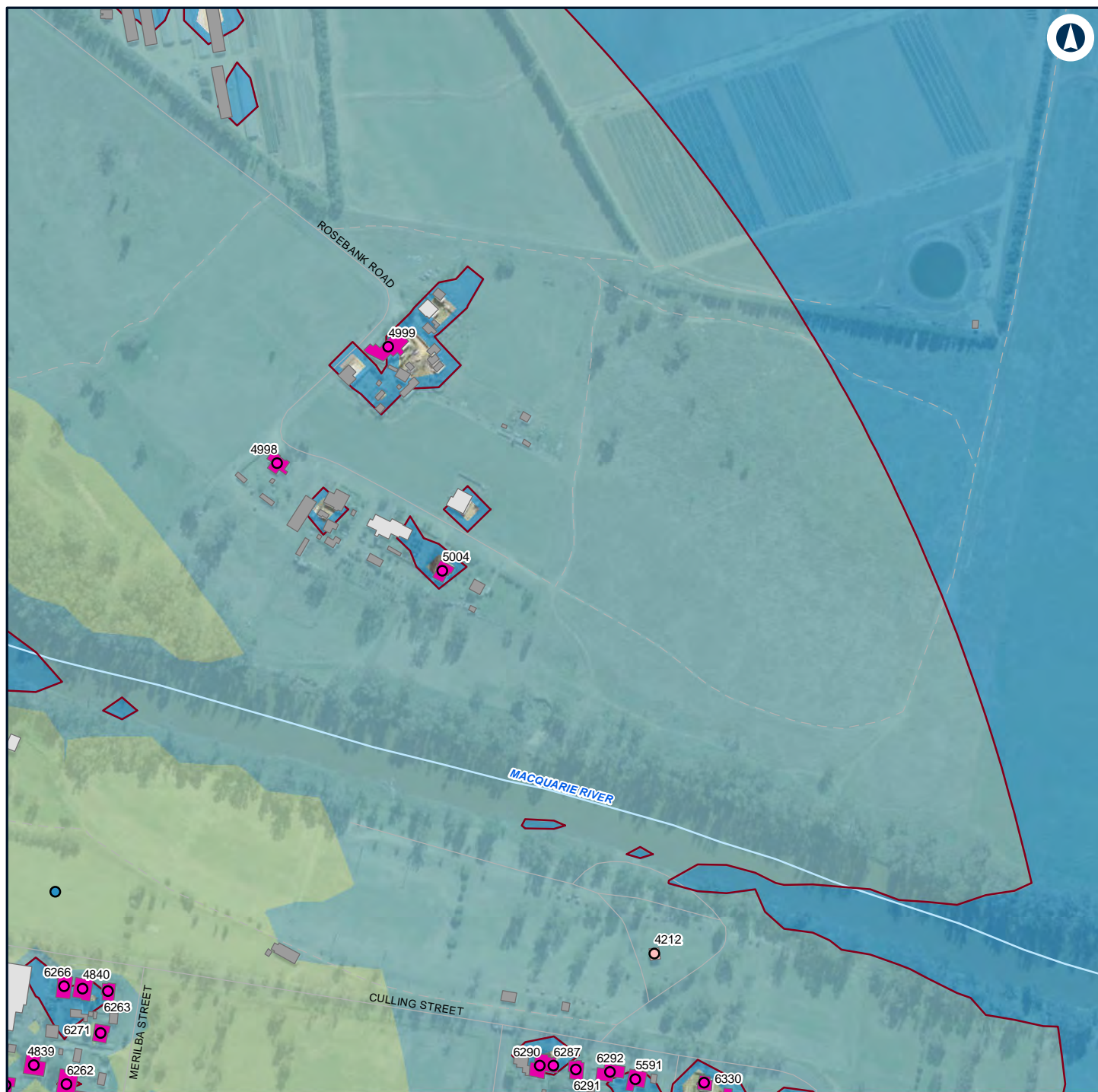
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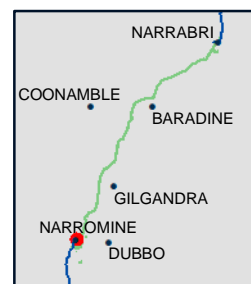
LEGEND

Structure type

- Active recreation
- Passive recreation
- Residential
- Commercial/Industrial
- Other
- Passive recreation
- Residential
- Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

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



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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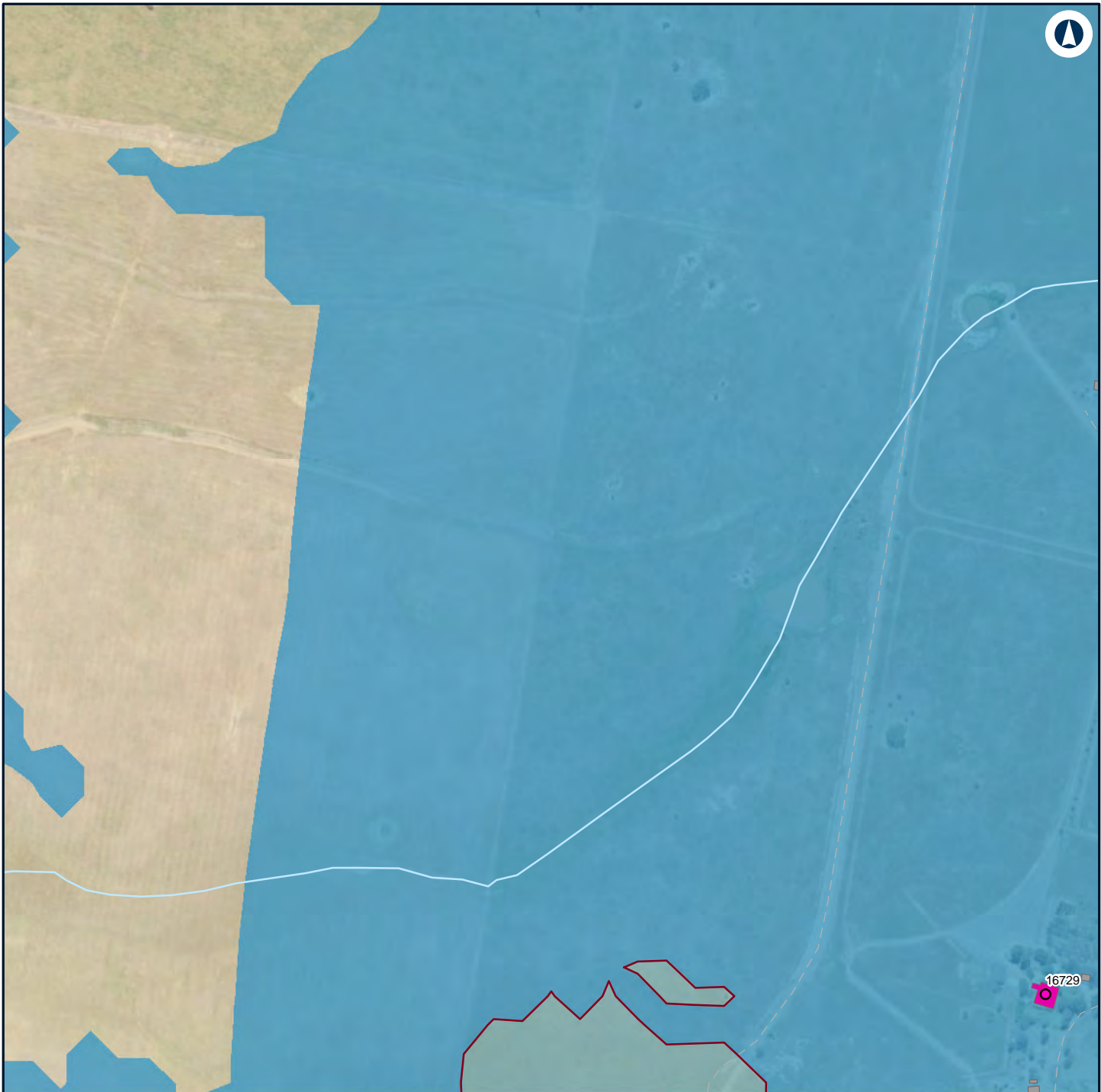
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LEGEND

Structure type

Residential

Other

Residential

Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

30 - 35

35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2 Km

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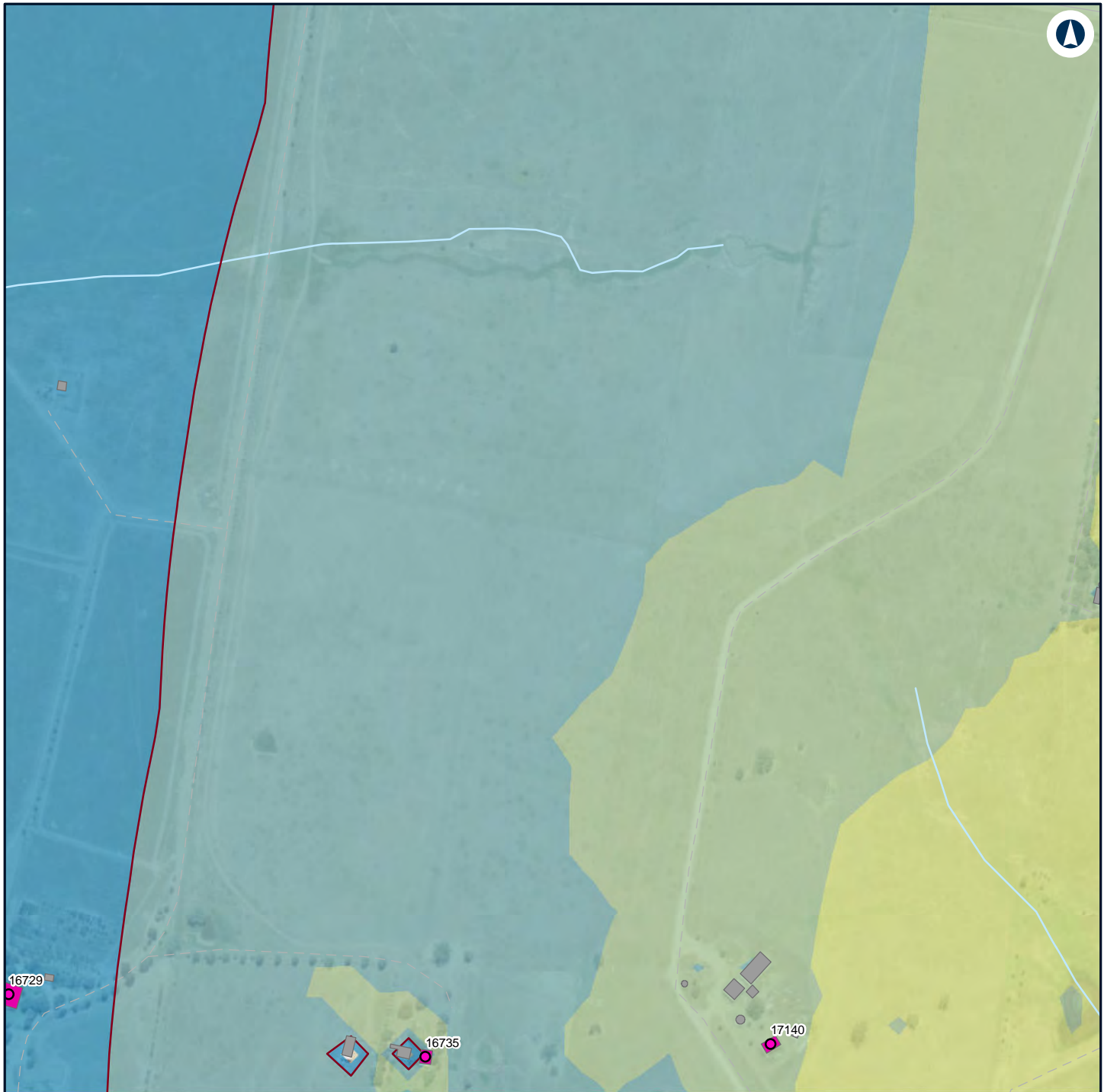
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LEGEND

Structure type

● Residential

■ Other

■ Residential

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40

■ 40 - 45

■ 45 - 50



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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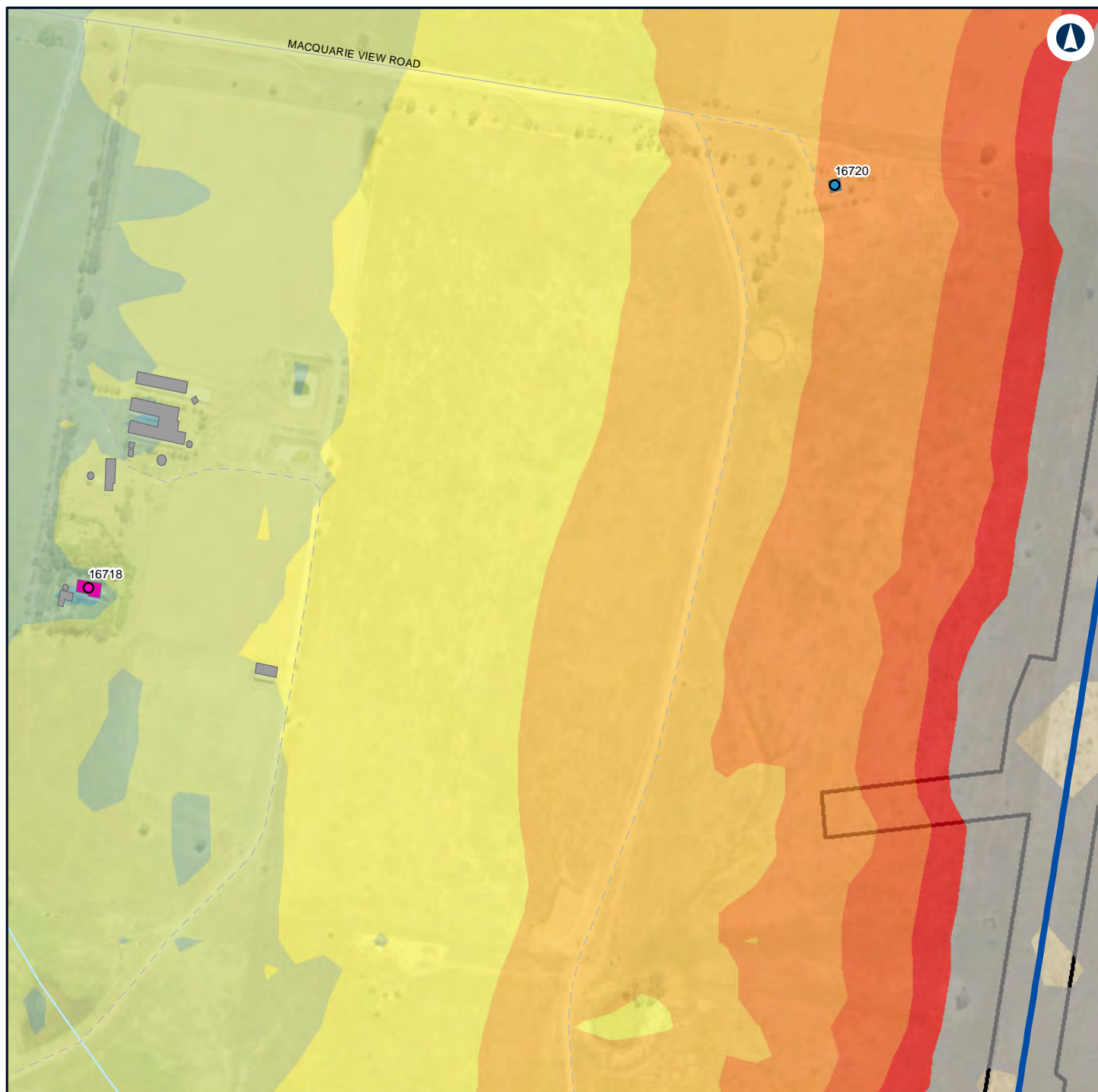
Author: GHD

Scale: 1:5,000

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

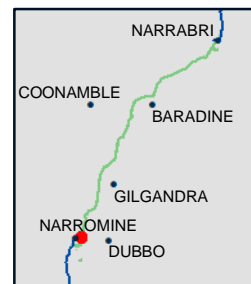
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LEGEND

Construction footprint	Alignment	60 - 65
Structure type	Noise level (dBA L_{Aeq} 15 minute)	65 - 70
Active recreation	35 - 40	70 - 75
Residential	40 - 45	> 75
Active recreation	45 - 50	
Other	50 - 55	
Residential	55 - 60	



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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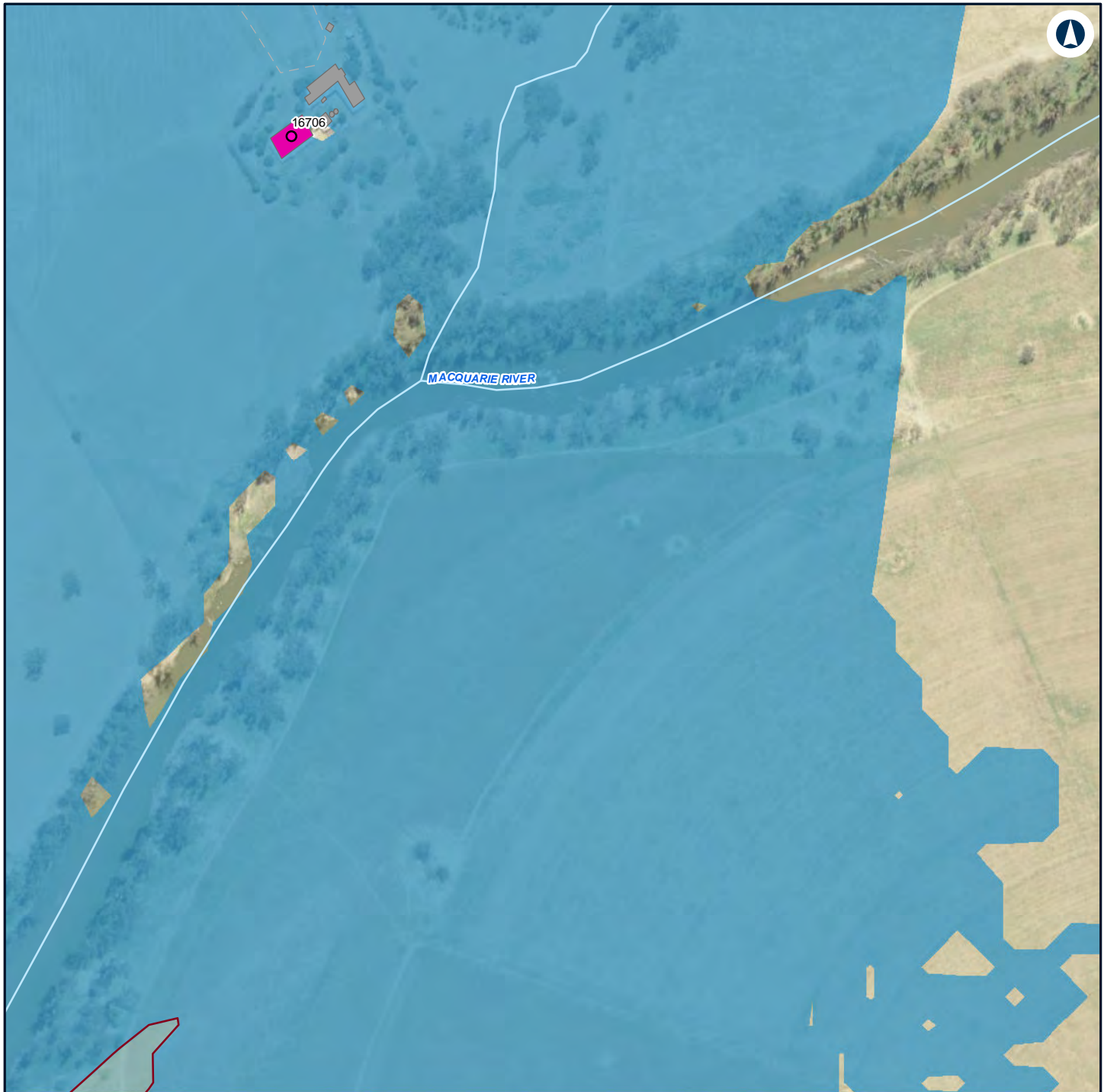
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LEGEND

Structure type

● Residential

■ Other

■ Residential

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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LEGEND

Structure type

Residential

Other

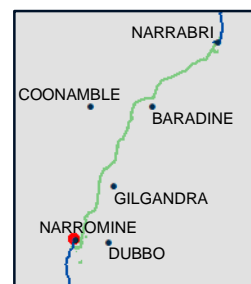
Residential

Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

30 - 35

35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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LEGEND

Structure type

- Residential
- Other

■ Residential

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40
■ 40 - 45
■ 45 - 50



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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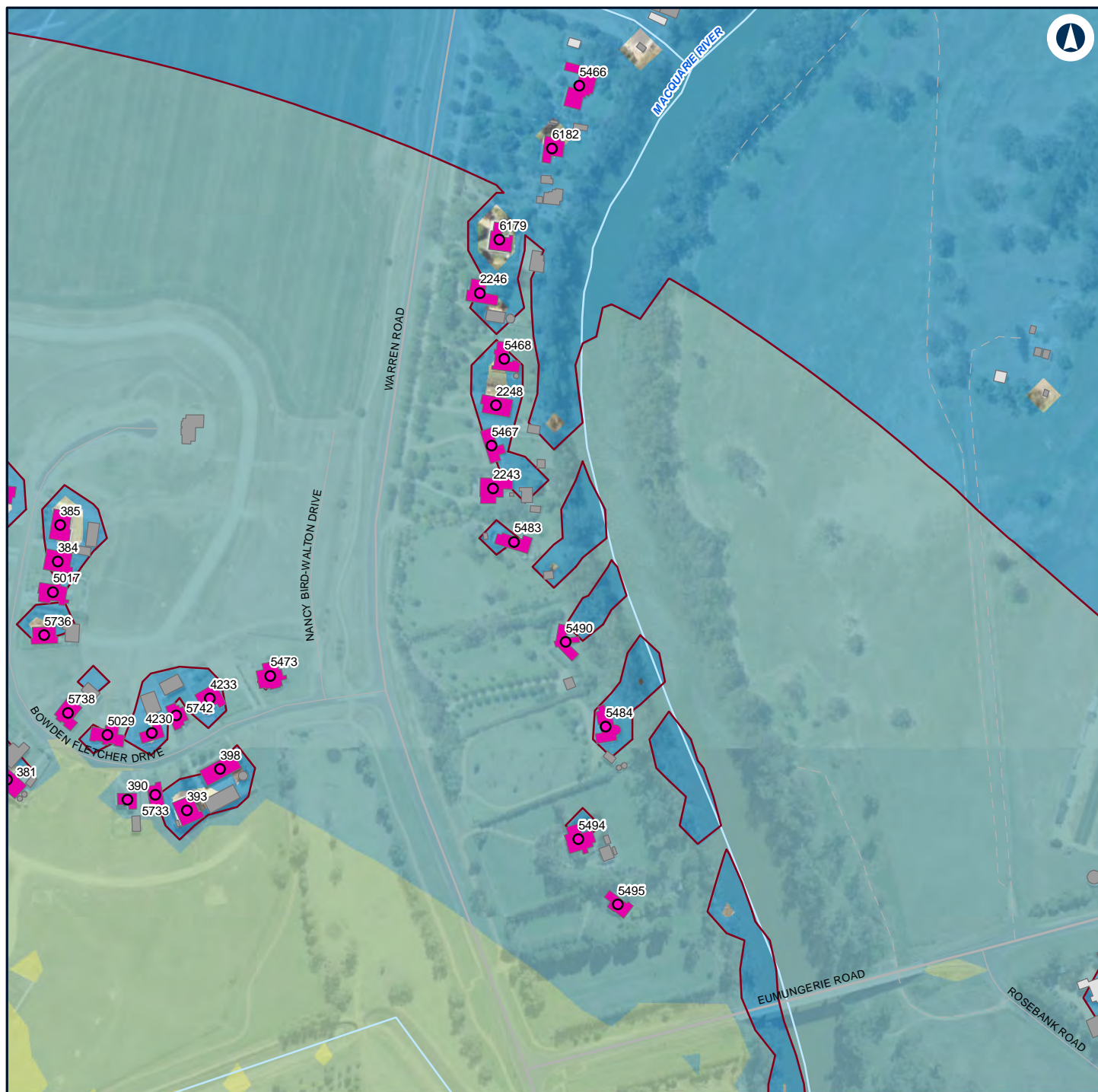
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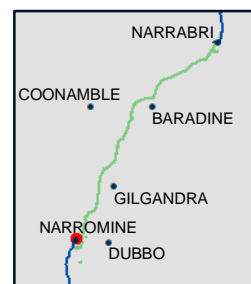
LEGEND

Structure type

- Residential
- Commercial/Industrial
- Other
- Residential
- Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

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



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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LEGEND

Structure type

- Residential
- Commercial/Industrial
- Other
- Residential
- Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

- 30 - 35
- 35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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Paper: A4

Author: GHD

Scale: 1:5,000

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

INLAND RAIL **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

Night-time noise management level

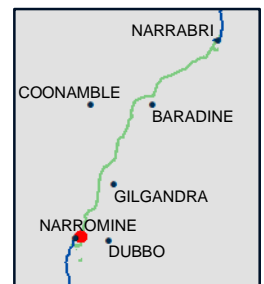
Noise level (dBA L_{Aeq} 15 minute)

30 - 35

35 - 40

40 - 45

45 - 50



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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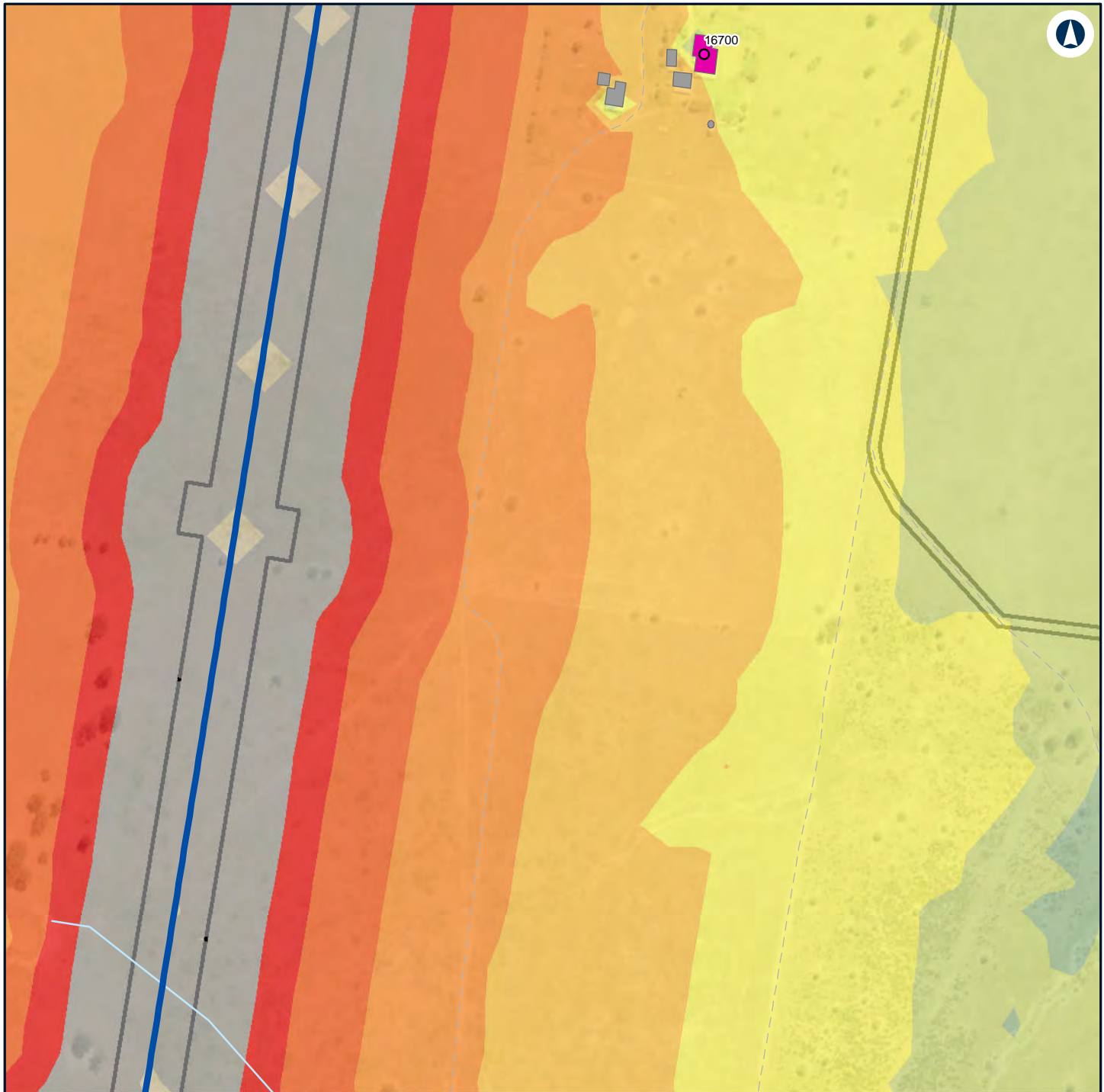
Author: GHD

Scale: 1:5,000














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

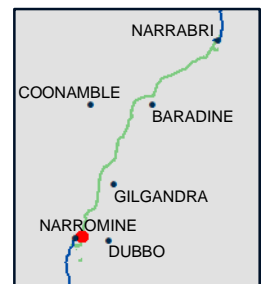
INLAND RAIL **ARTC**

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LEGEND

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



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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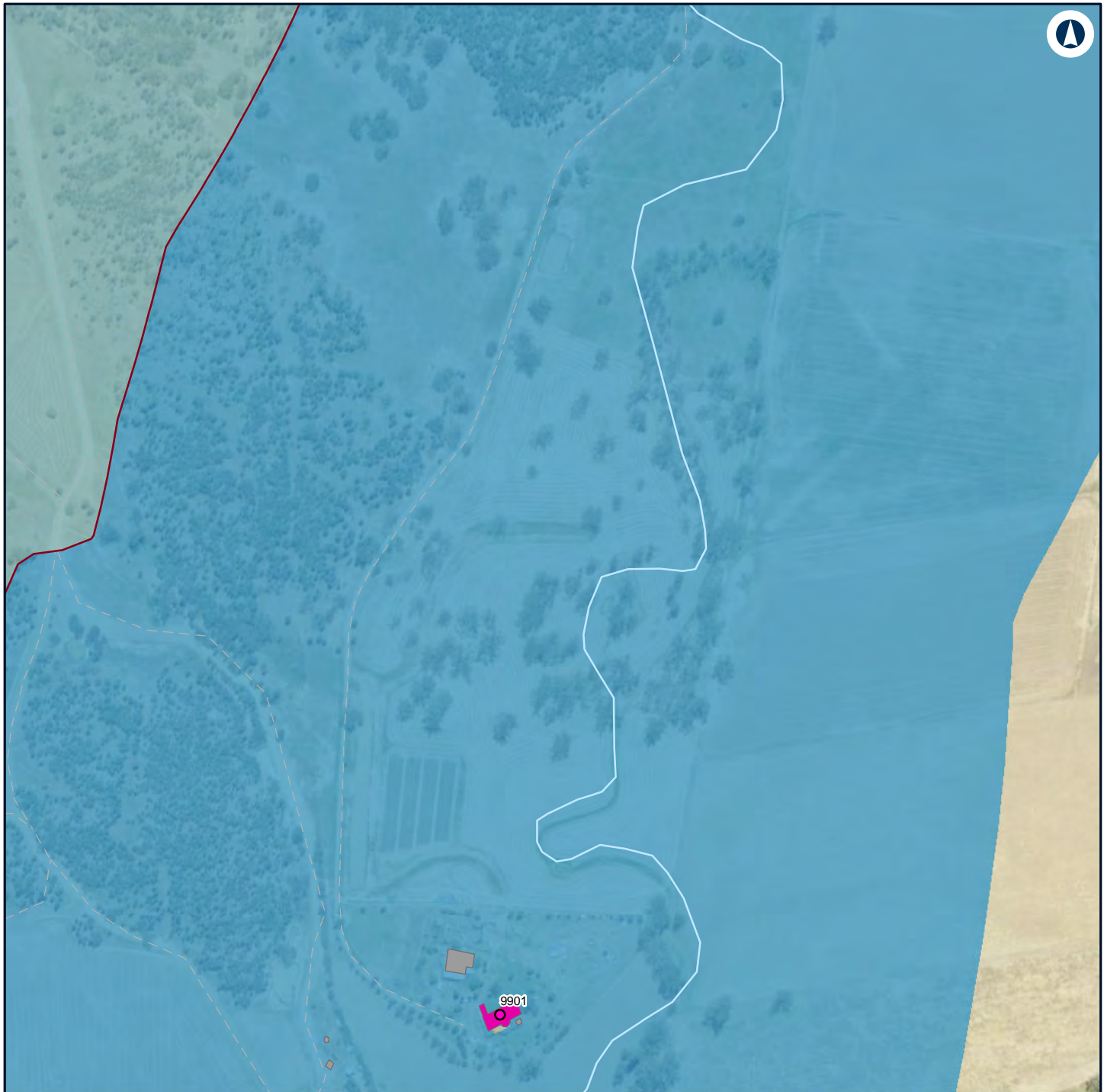
Author: GHD

Scale: 1:5,000

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

INLAND RAIL **ARTC**

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LEGEND

Structure type

● Residential

■ Other

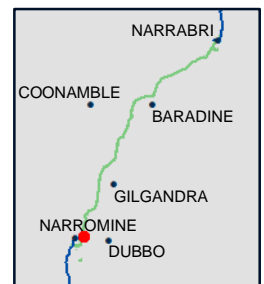
■ Residential

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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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
- Commercial/Industrial
- Other
- Residential
- Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

- 30 - 35
- 35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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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

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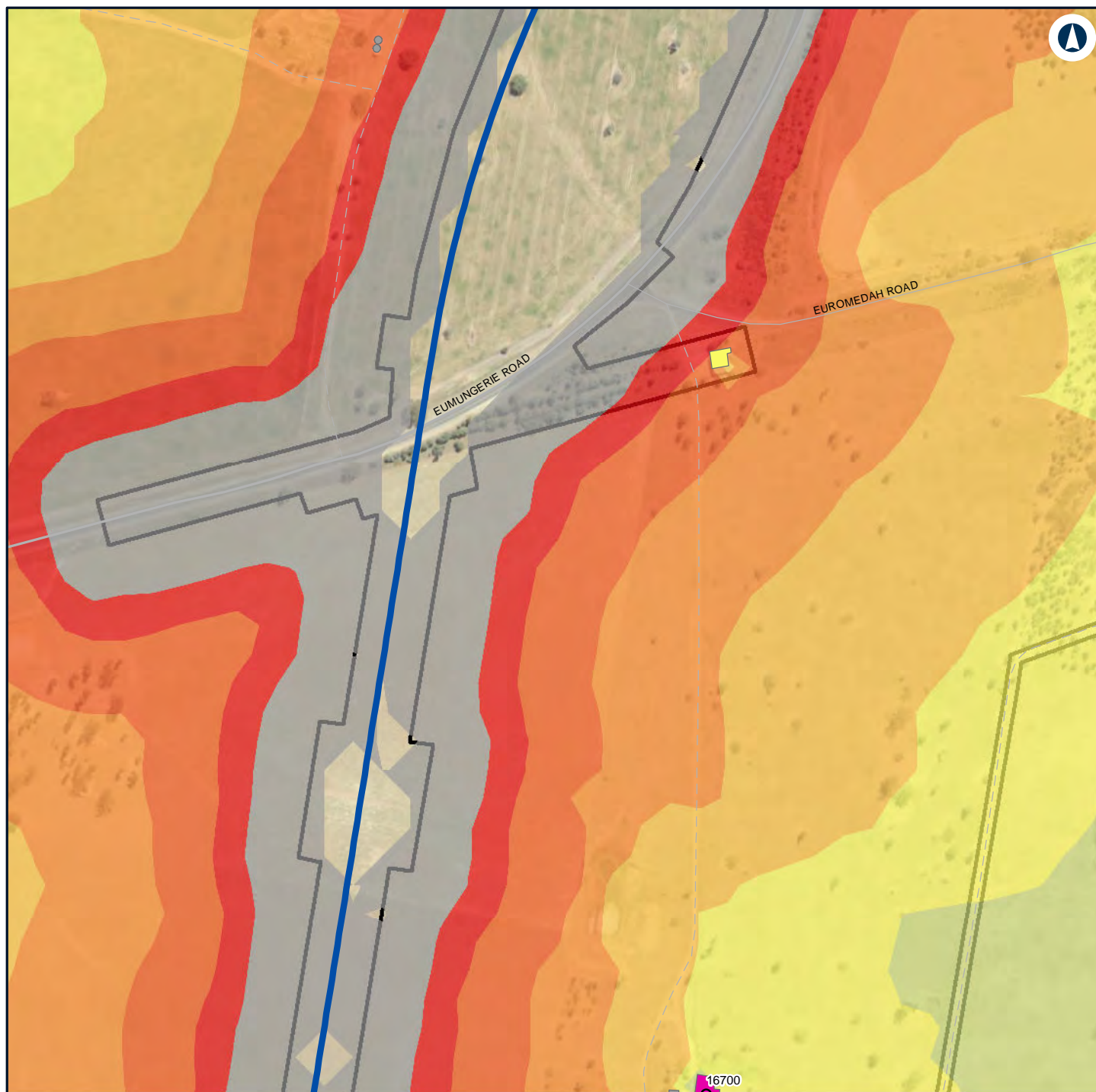
Author: GHD

Scale: 1:5,000

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

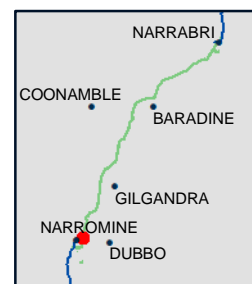
INLAND RAIL **ARTC**

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LEGEND

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



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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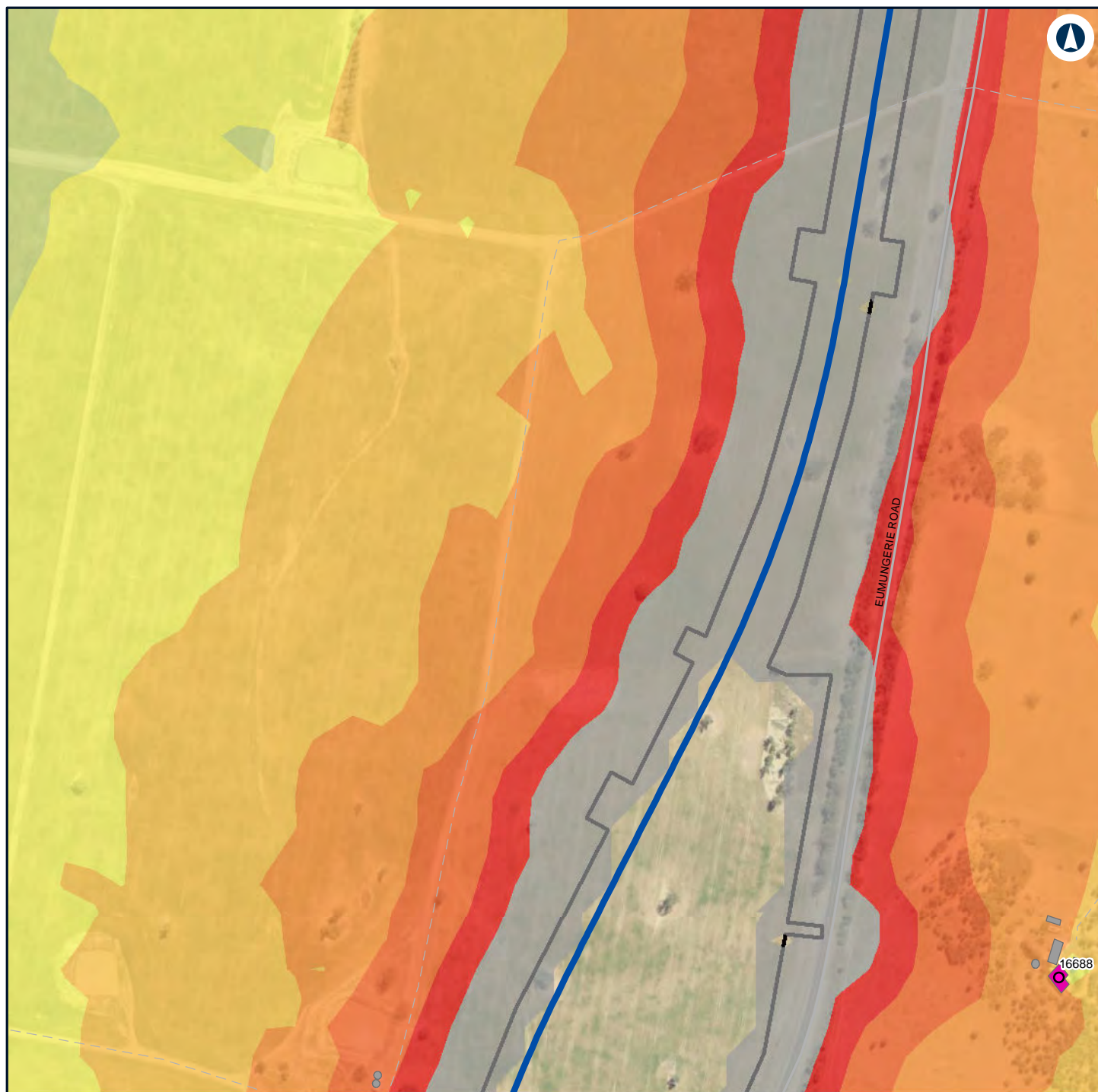
Author: GHD

Scale: 1:5,000

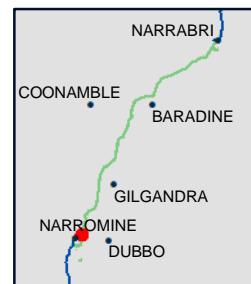
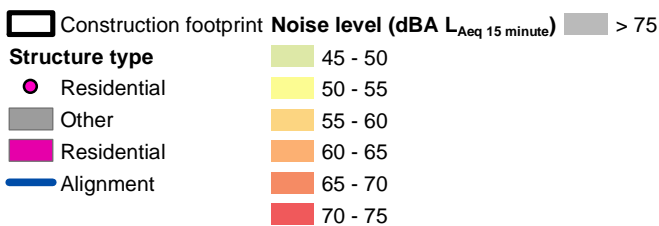
Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

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LEGEND



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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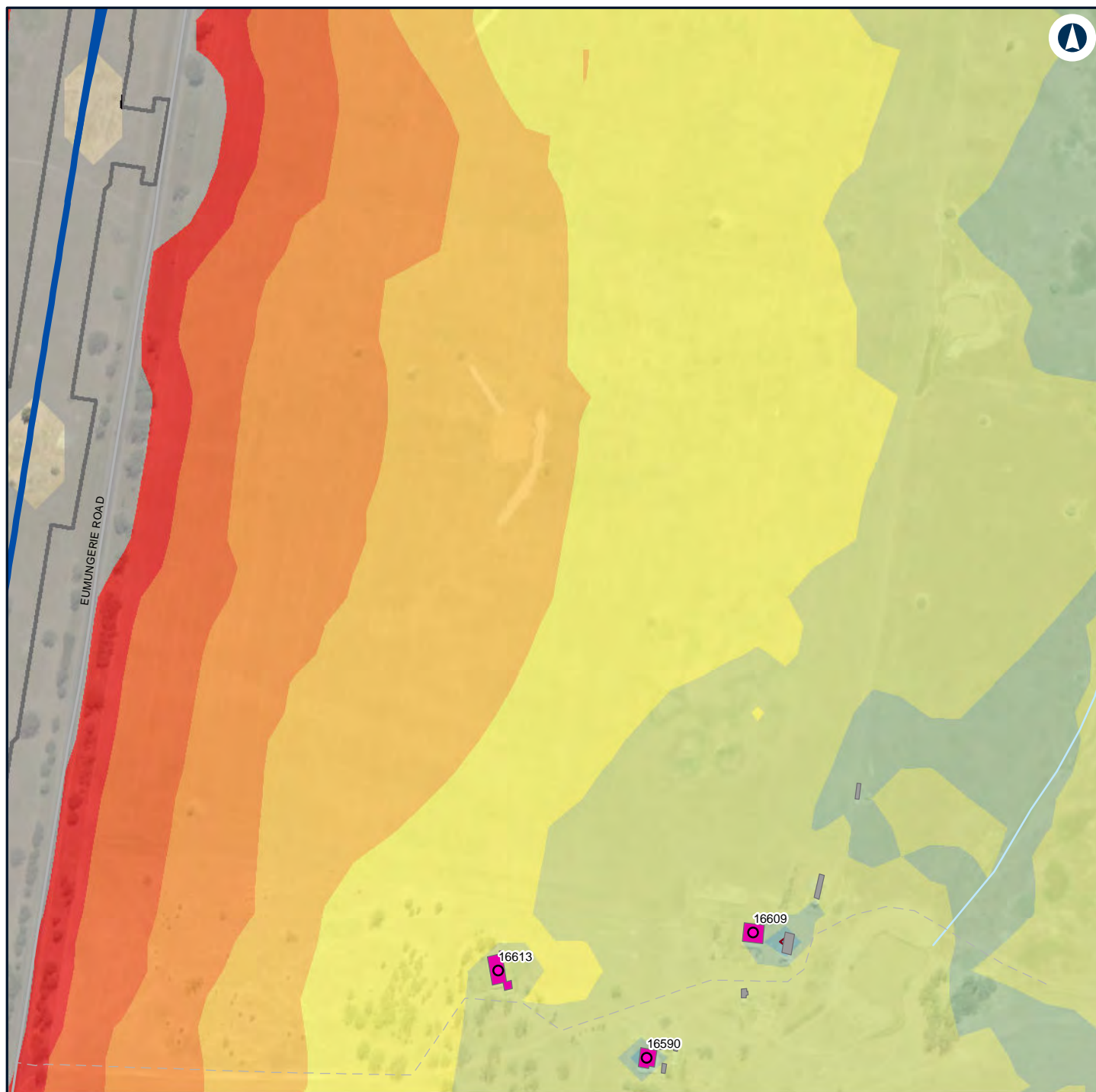
Author: GHD

Scale: 1:5,000

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

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LEGEND

Construction footprint

Structure type

Residential

Other

Residential

Alignment

Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

30 - 35

35 - 40

40 - 45

45 - 50

50 - 55

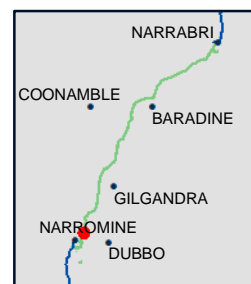
55 - 60

60 - 65

65 - 70

70 - 75

> 75



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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Date: 16/07/2020

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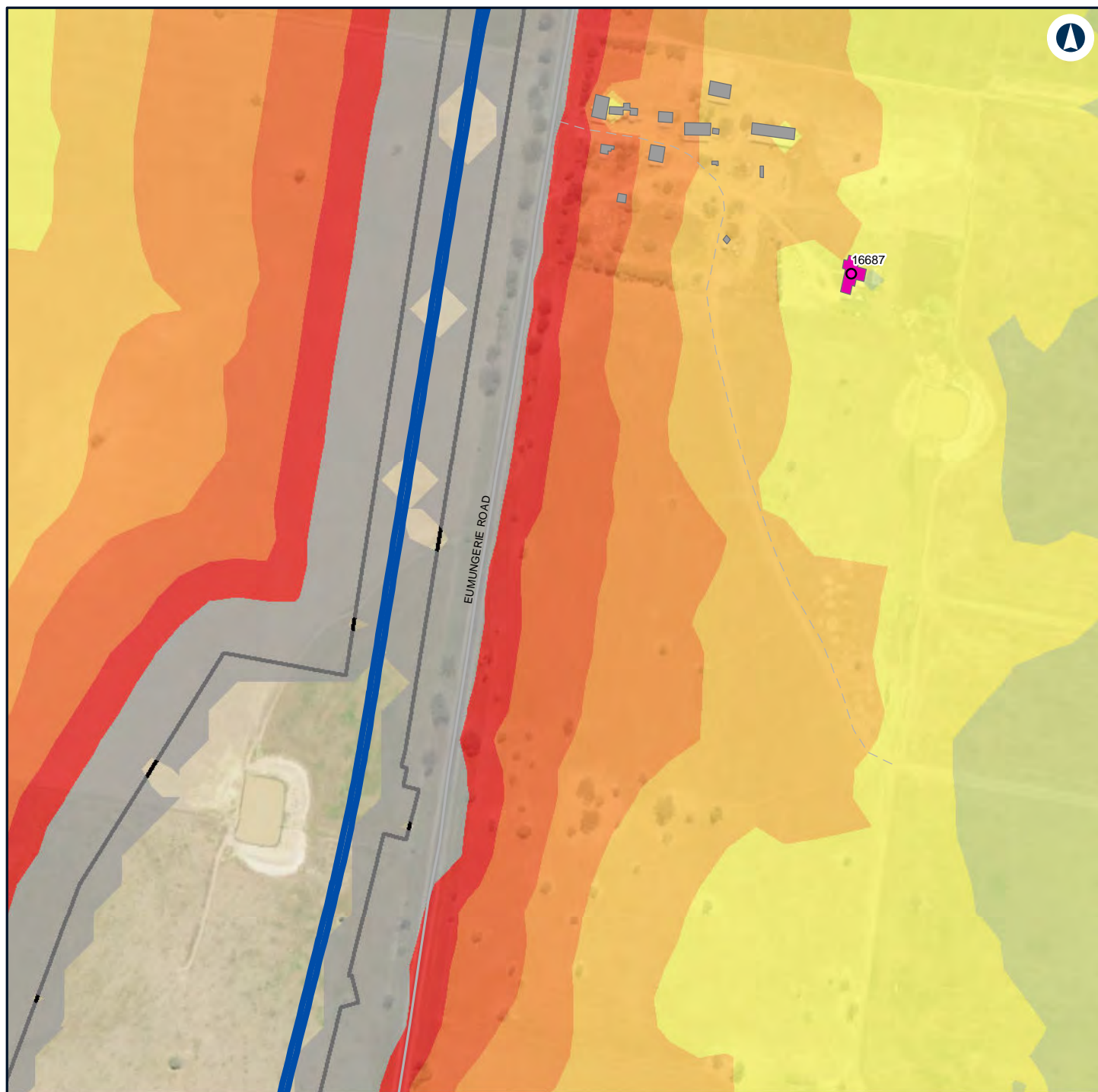
Author: GHD

Scale: 1:5,000

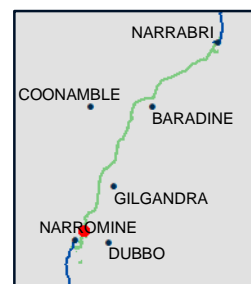
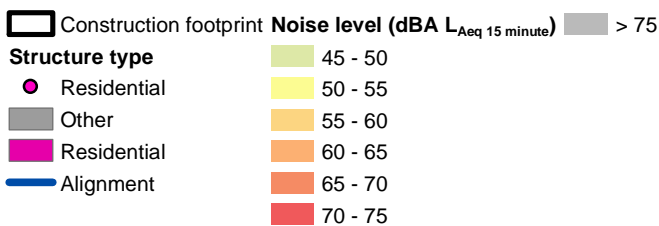
Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

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LEGEND



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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Coordinate System: GDA 1994 MGA Zone 55

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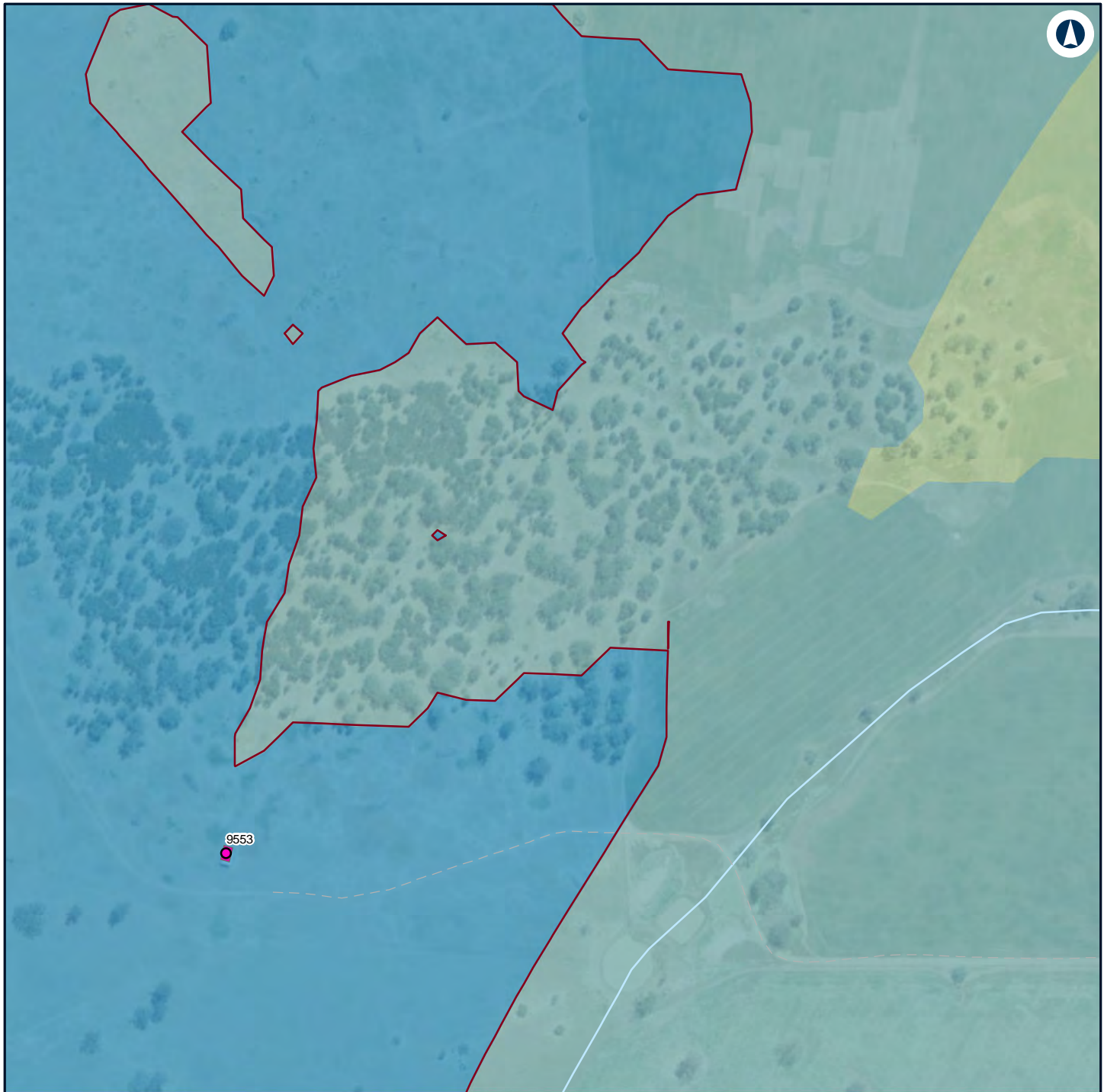
Author: GHD

Scale: 1:5,000

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

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LEGEND

Structure type

- Residential
- Residential

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

- 30 - 35
- 35 - 40

40 - 45



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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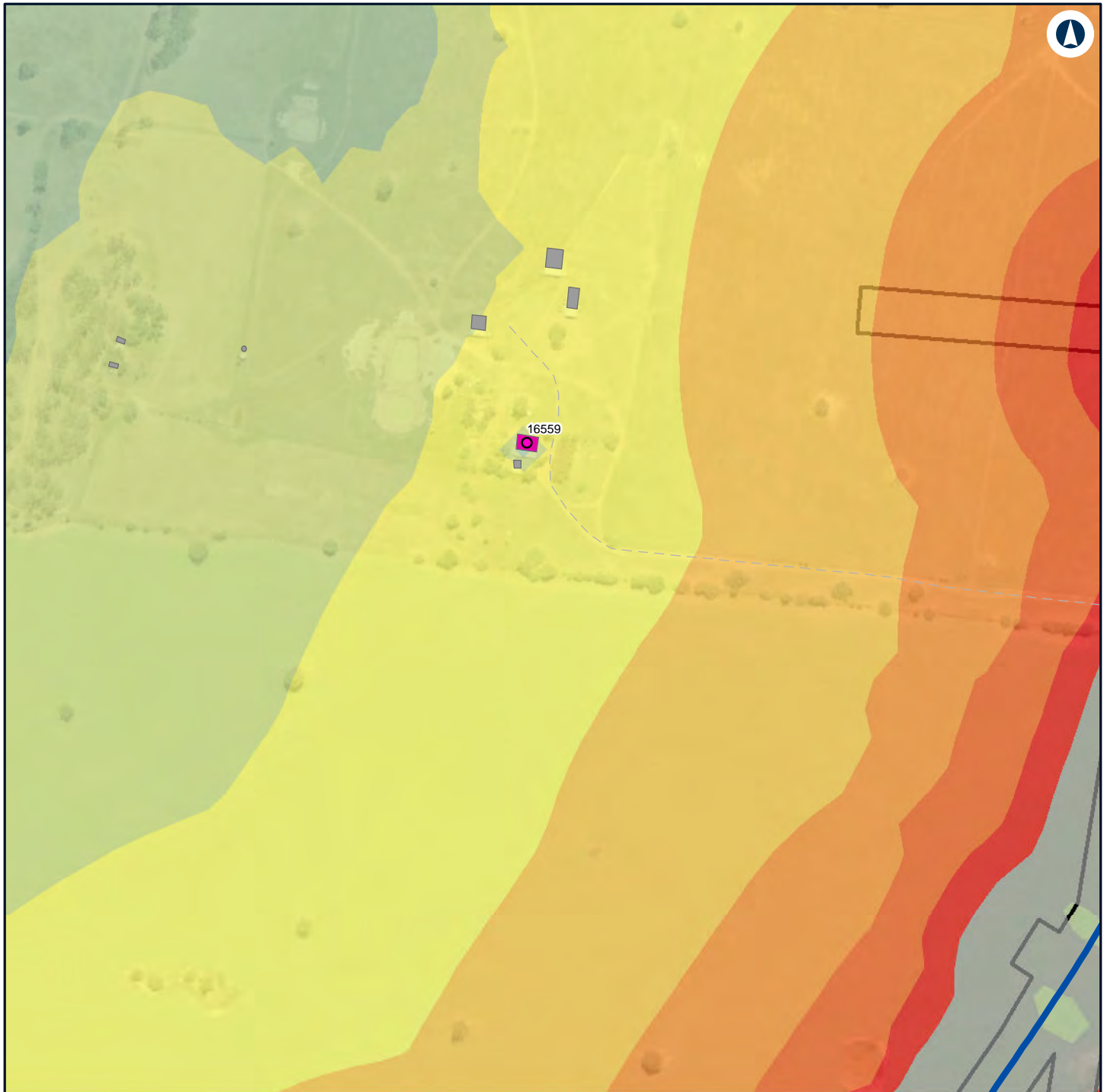
Author: GHD

Scale: 1:5,000

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

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LEGEND

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



NARRABINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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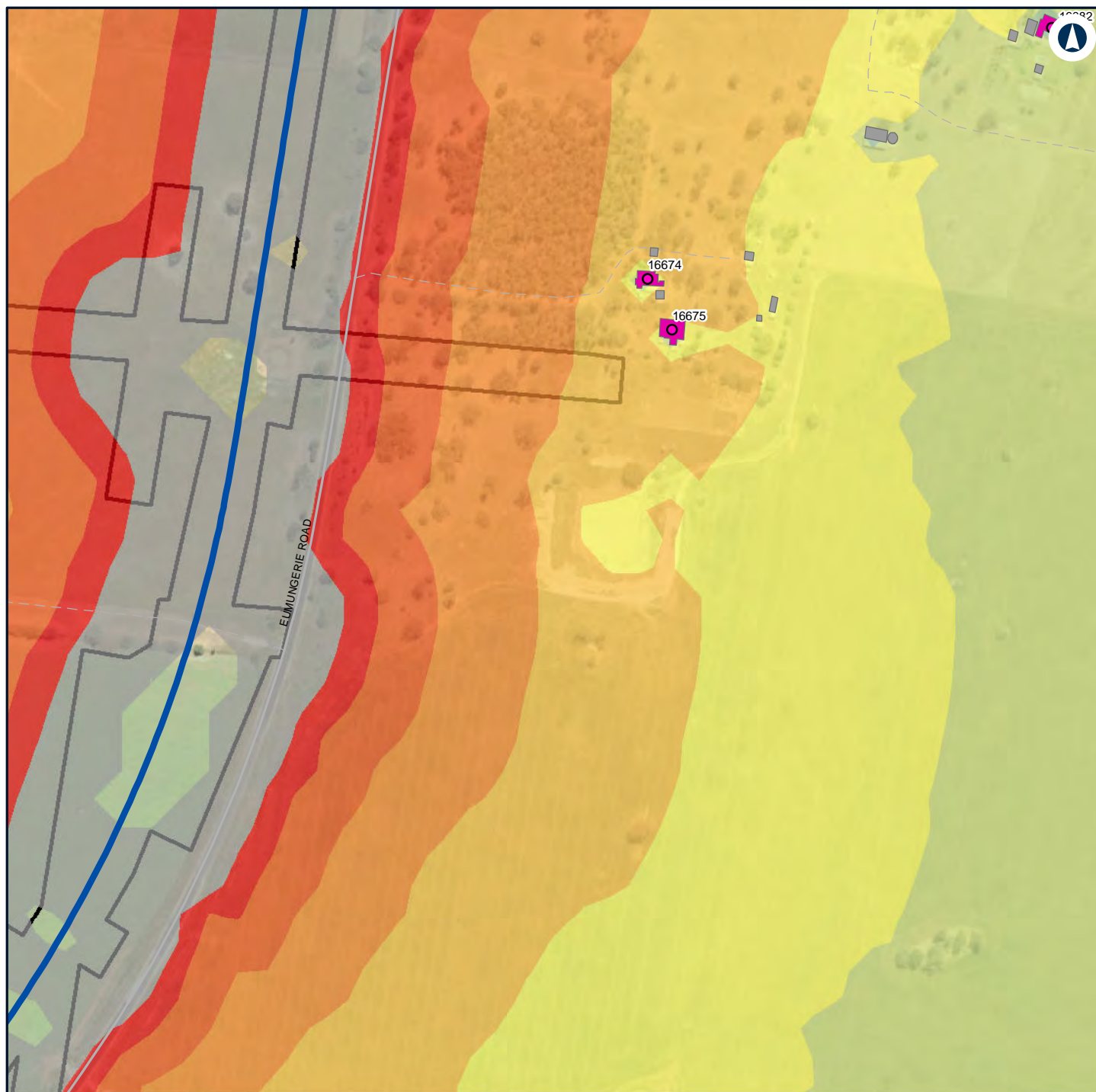
Author: GHD

Scale: 1:5,000















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

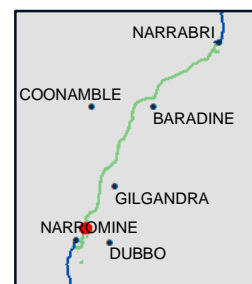
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LEGEND

	Construction footprint	Noise level (dBA L_{Aeq} 15 minute)			65 - 70
Structure type			35 - 40		70 - 75
	Residential		40 - 45		> 75
	Other		45 - 50		
	Residential		50 - 55		
	Alignment		55 - 60		
			60 - 65		



NARRAMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4

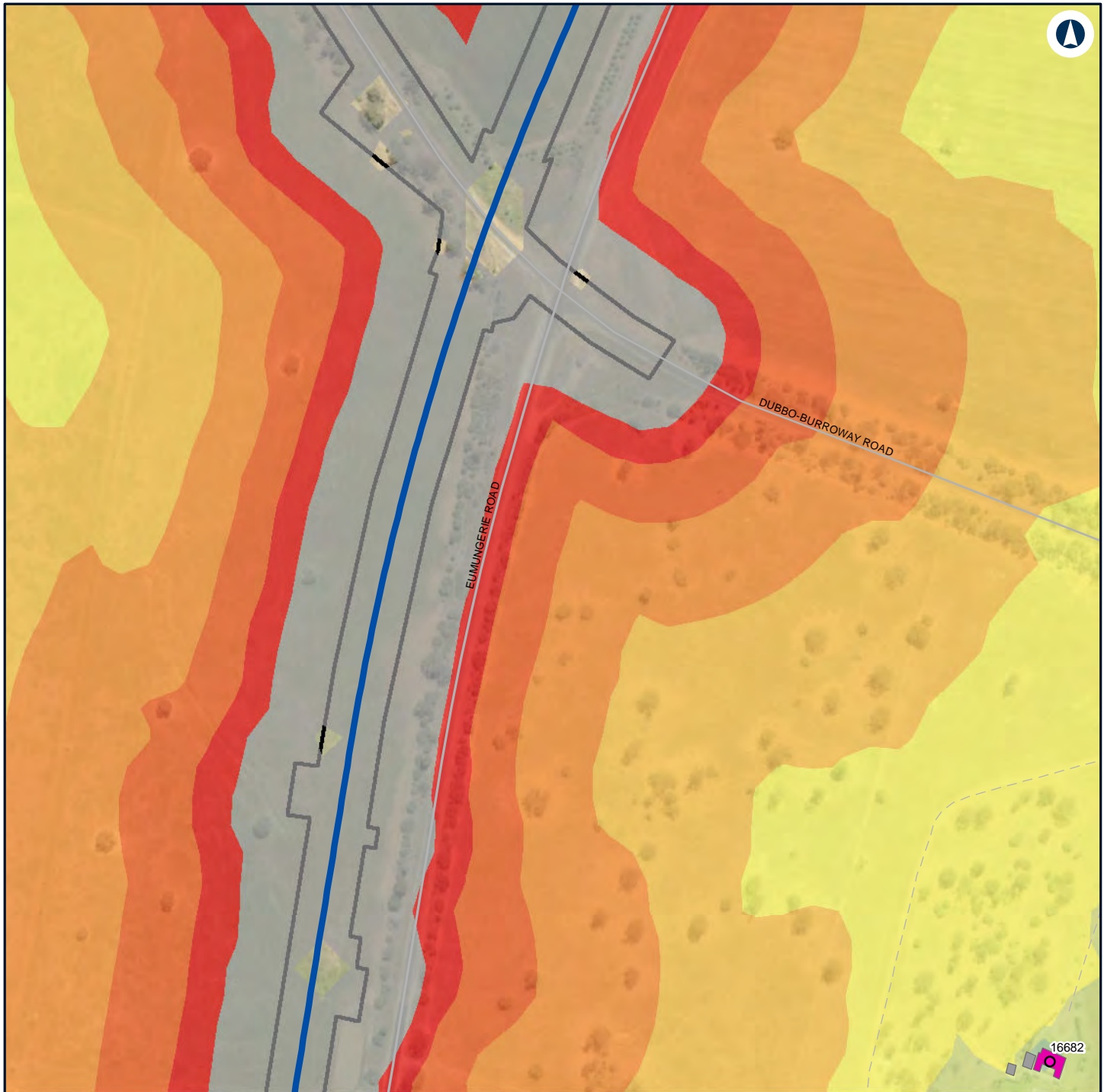
Author: GHD

Scale: 1:5,000

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

**INLAND
RAIL** **ARTC**

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LEGEND

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



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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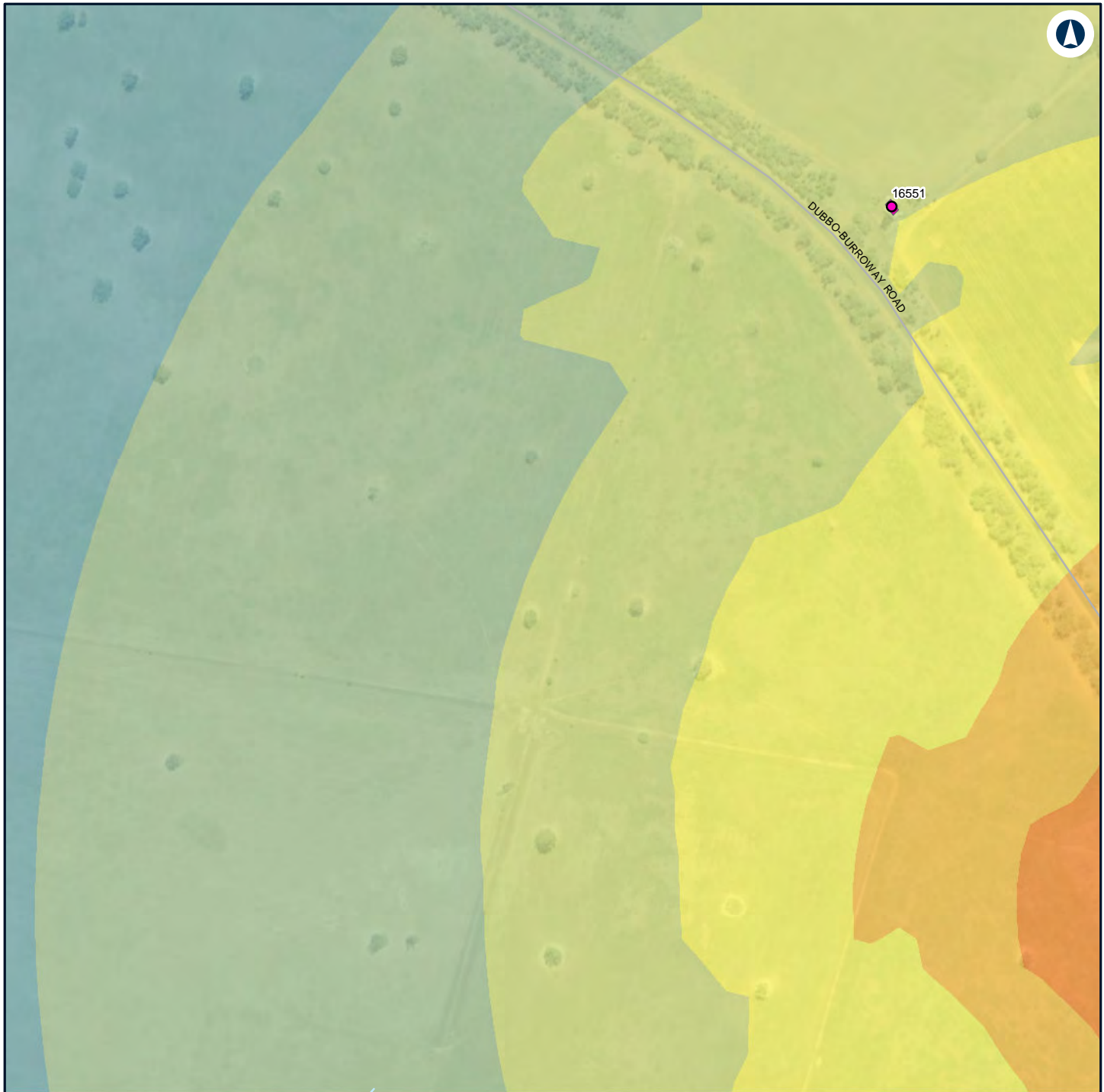
Author: GHD

Scale: 1:5,000

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

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LEGEND

Structure type

- Residential
- Residential

- 50 - 55
- 55 - 60
- 60 - 65

Noise level (dBA L_{Aeq} 15 minute)

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



NARRABINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

Appendix F - Page 87 of 298

0 0.1 0.2
Km

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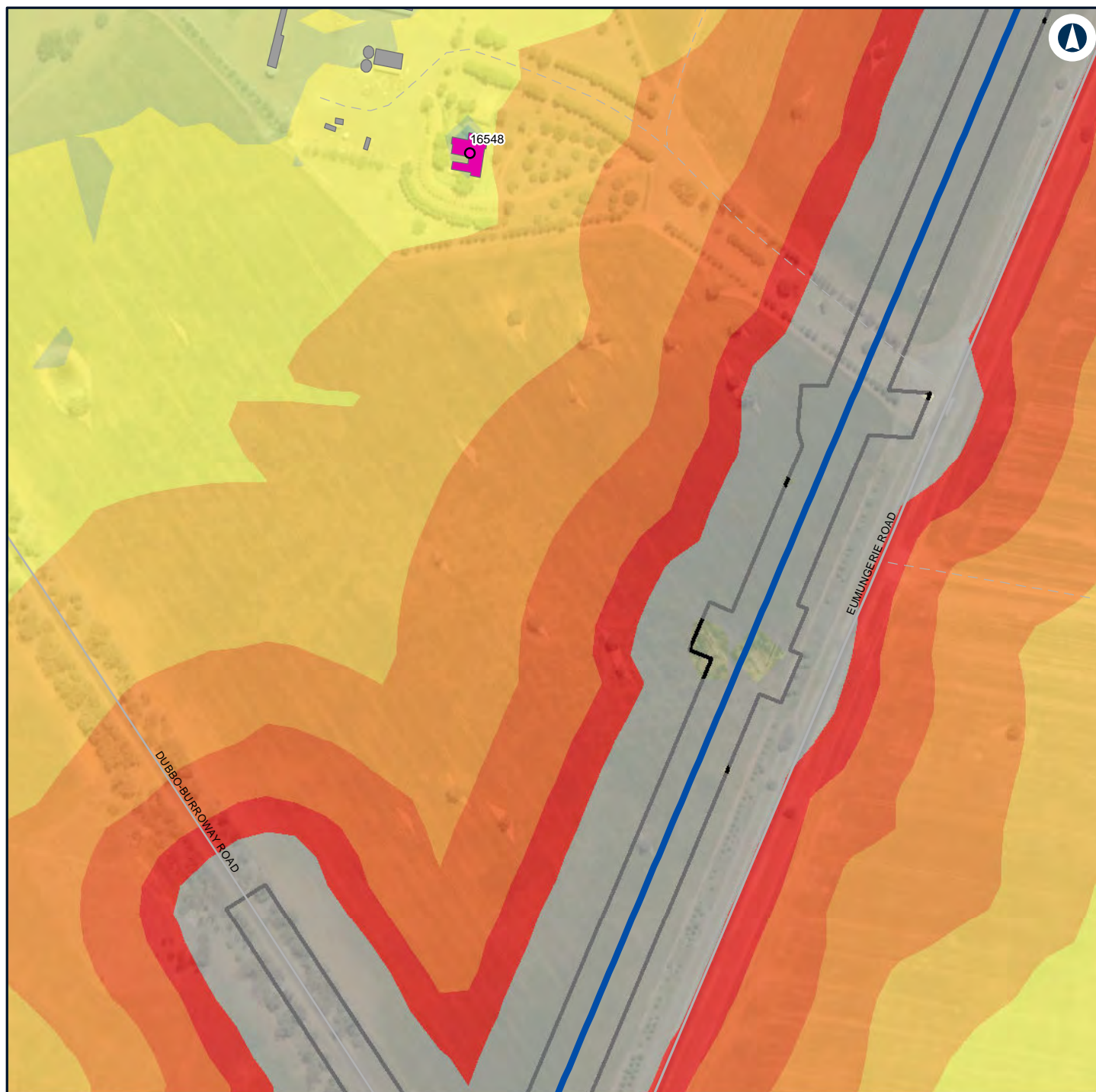
Author: GHD

Scale: 1:5,000















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

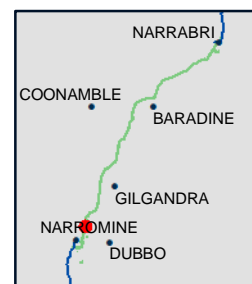
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LEGEND

	Construction footprint	Noise level (dBA L_{Aeq} 15 minute)			65 - 70
Structure type			35 - 40		70 - 75
	Residential		40 - 45		> 75
	Other		45 - 50		
	Residential		50 - 55		
	Alignment		55 - 60		
			60 - 65		



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

Appendix F - Page 88 of 298

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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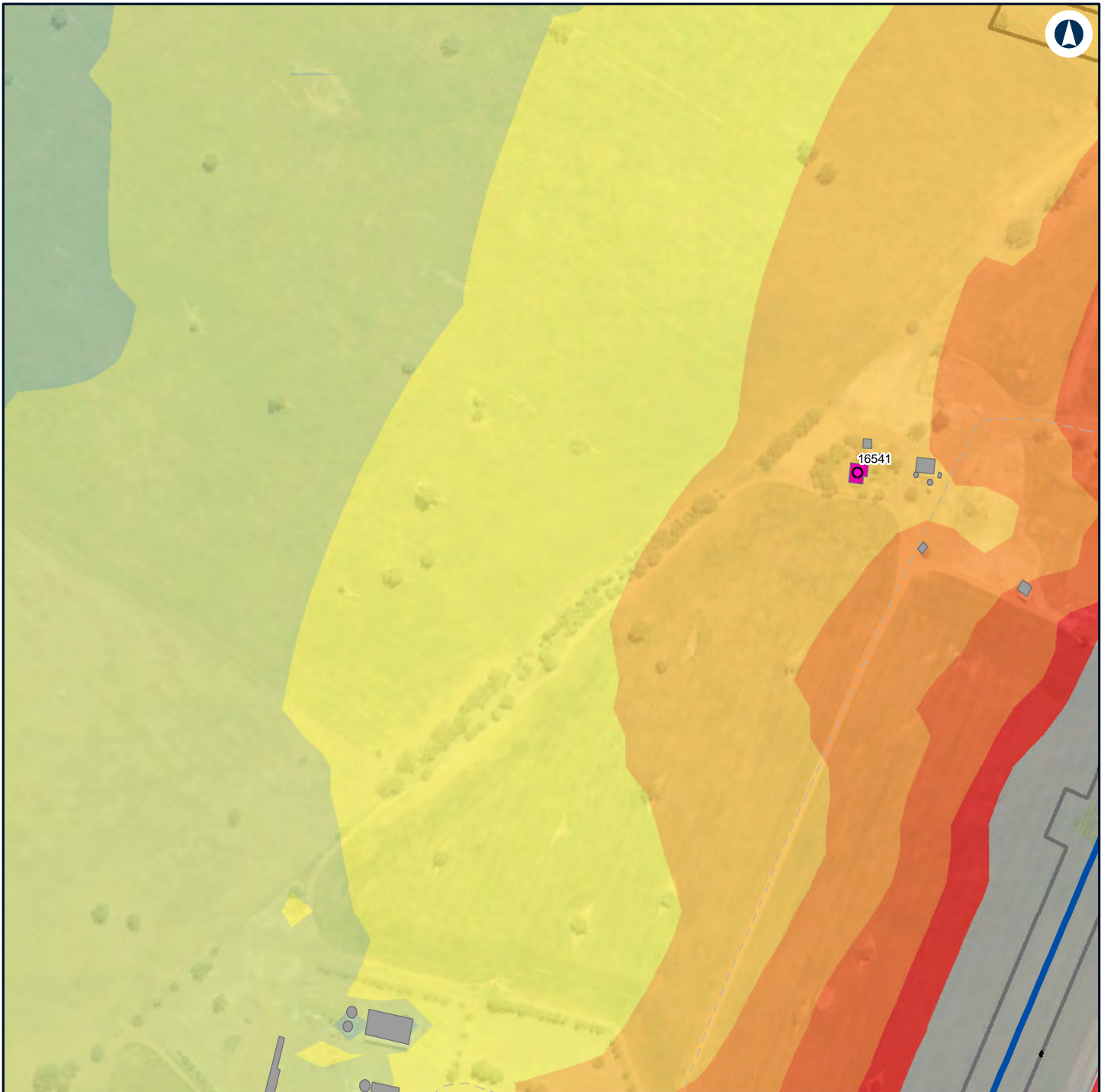
Author: GHD

Scale: 1:5,000















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

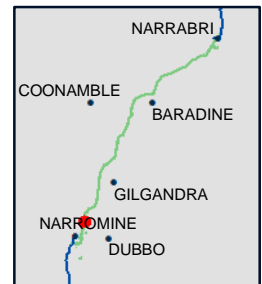
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LEGEND

	Construction footprint	Noise level (dBA L_{Aeq} 15 minute)			65 - 70
Structure type			35 - 40		70 - 75
	Residential		40 - 45		> 75
	Other		45 - 50		
	Residential		50 - 55		
	Alignment		55 - 60		
			60 - 65		



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

Appendix F - Page 89 of 298

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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LEGEND

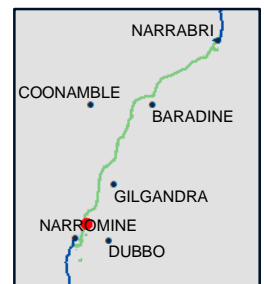
Structure type

- Residential
- Residential

Noise level (dBA L_{Aeq} 15 minute)

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

50 - 55



NARRABRIE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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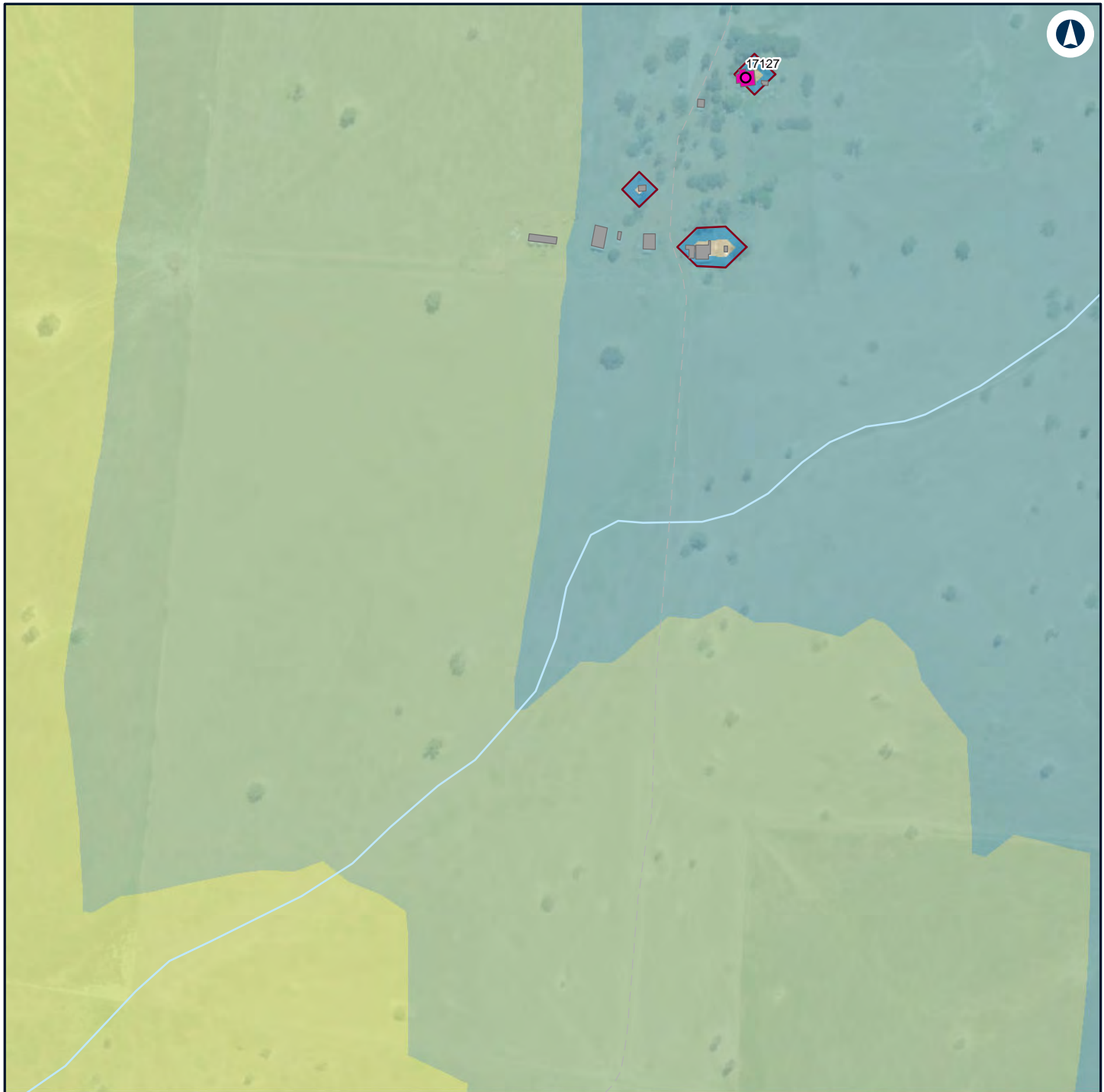
Author: GHD

Scale: 1:5,000

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

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LEGEND

Structure type

● Residential

■ Other

■ Residential

— Night-time noise management level

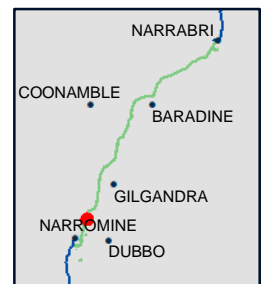
Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40

■ 40 - 45

■ 45 - 50



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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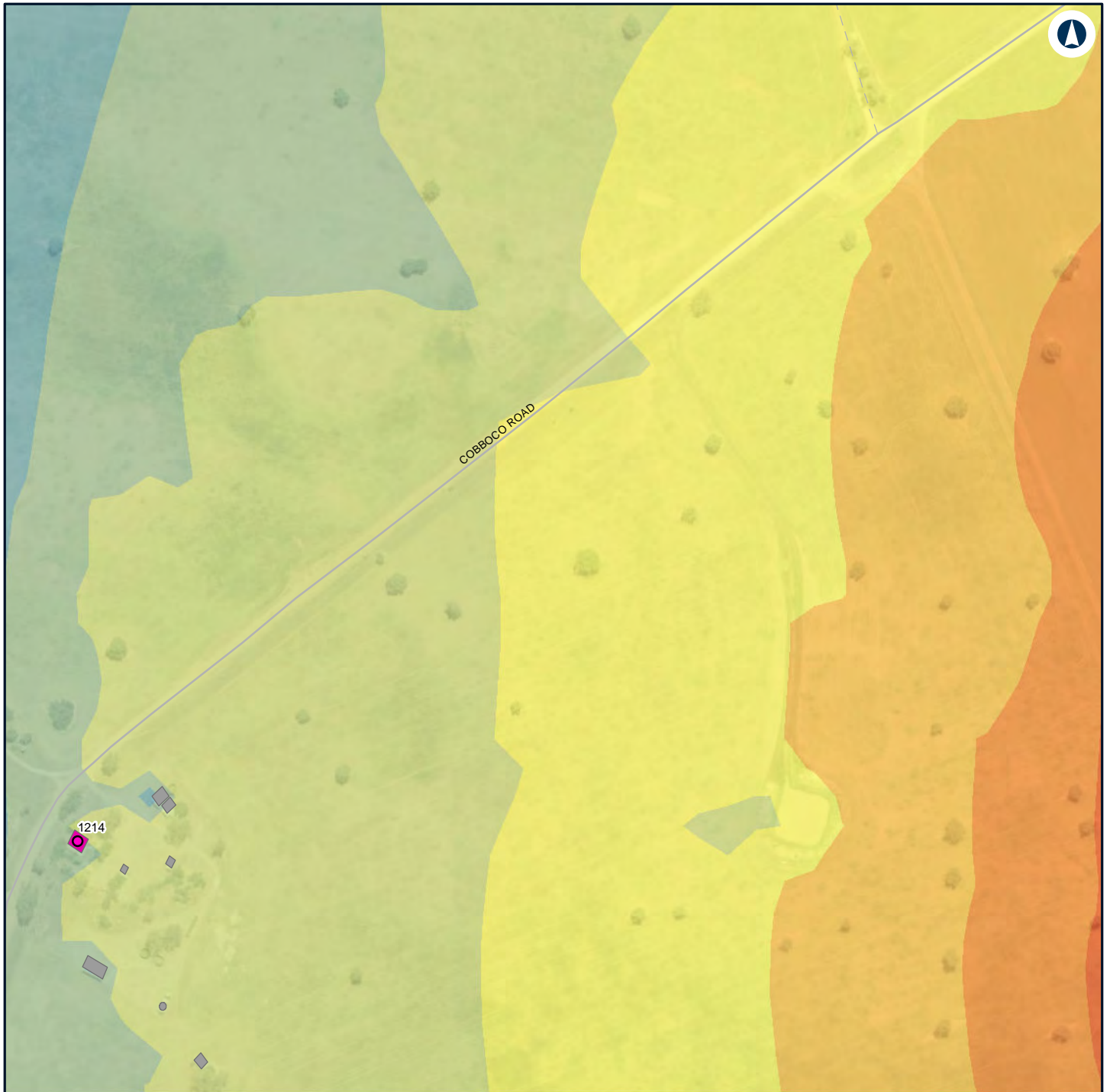
Author: GHD

Scale: 1:5,000

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

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LEGEND

Structure type

Residential

Other

Residential

Noise level (dBA L_{Aeq} 15 minute)

35 - 40

40 - 45

45 - 50

50 - 55

55 - 60

60 - 65

65 - 70



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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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

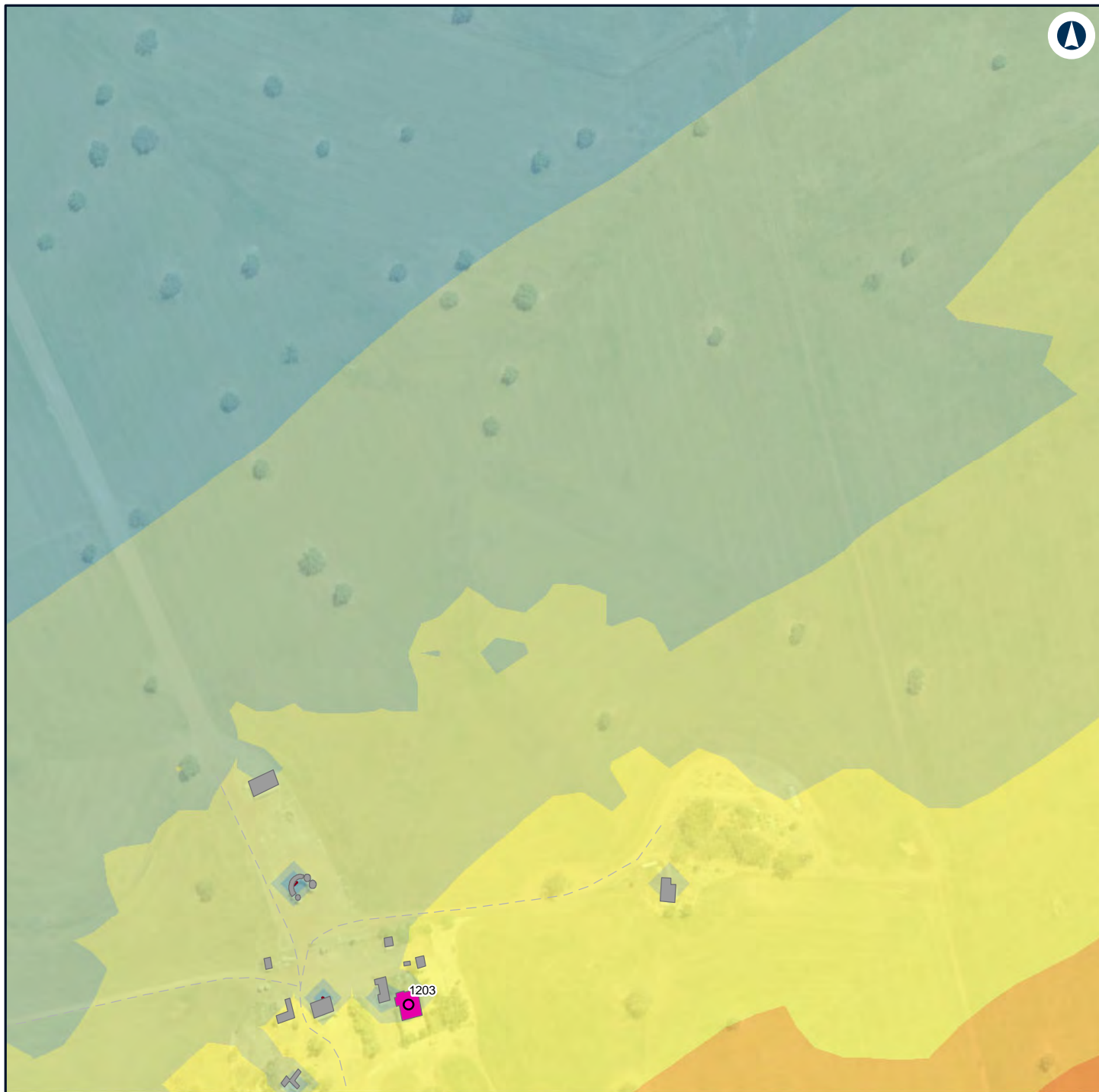
Author: GHD

Scale: 1:5,000

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

INLAND RAIL **ARTC**

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

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40

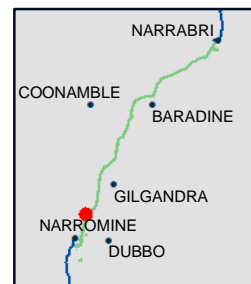
■ 40 - 45

■ 45 - 50

■ 50 - 55

■ 55 - 60

■ 60 - 65



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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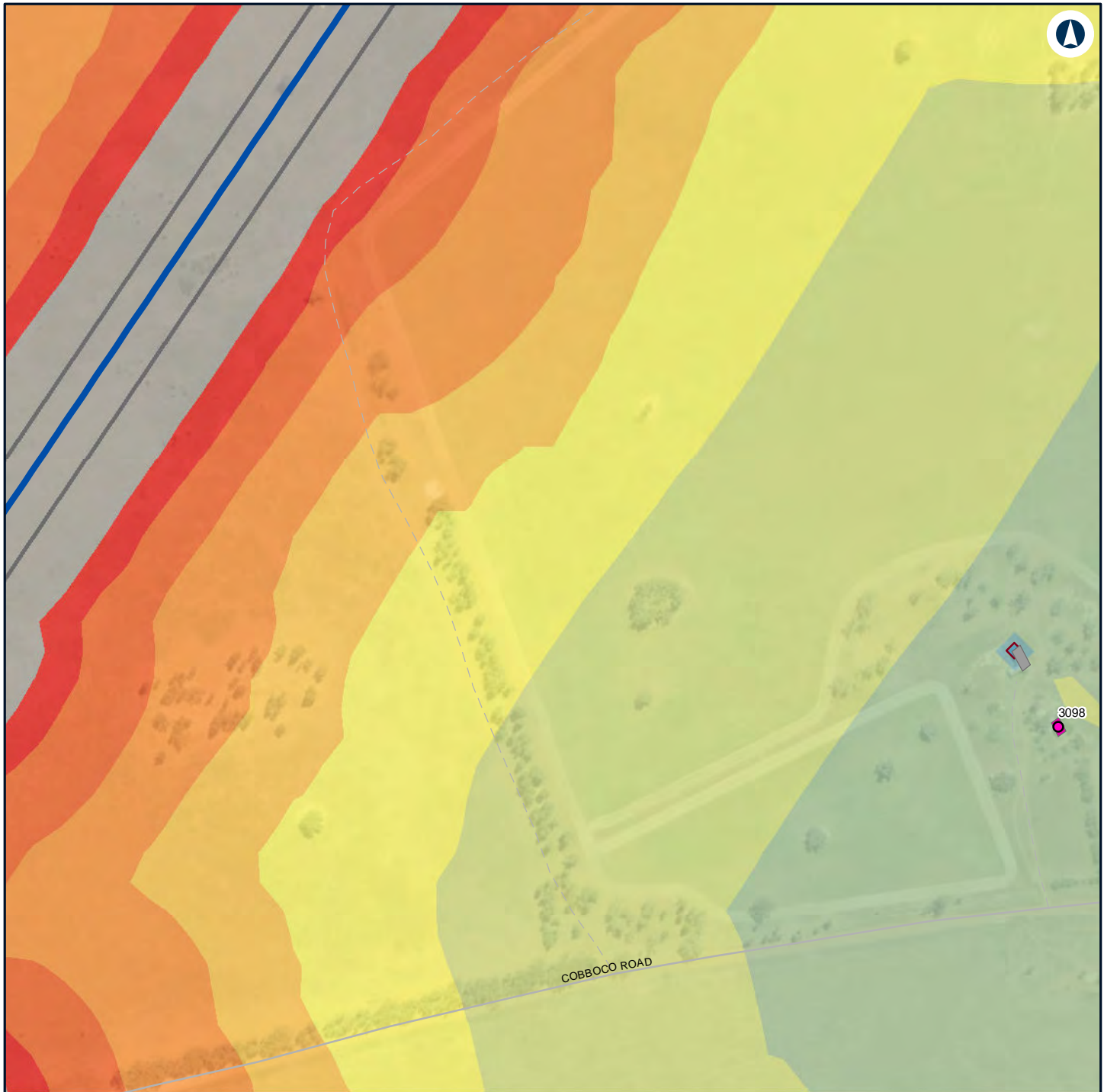
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Scale: 1:5,000

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

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LEGEND

Construction footprint

Structure type

Residential

Other

Residential

Alignment

Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

30 - 35

35 - 40

40 - 45

45 - 50

50 - 55

55 - 60

60 - 65

65 - 70

70 - 75

> 75



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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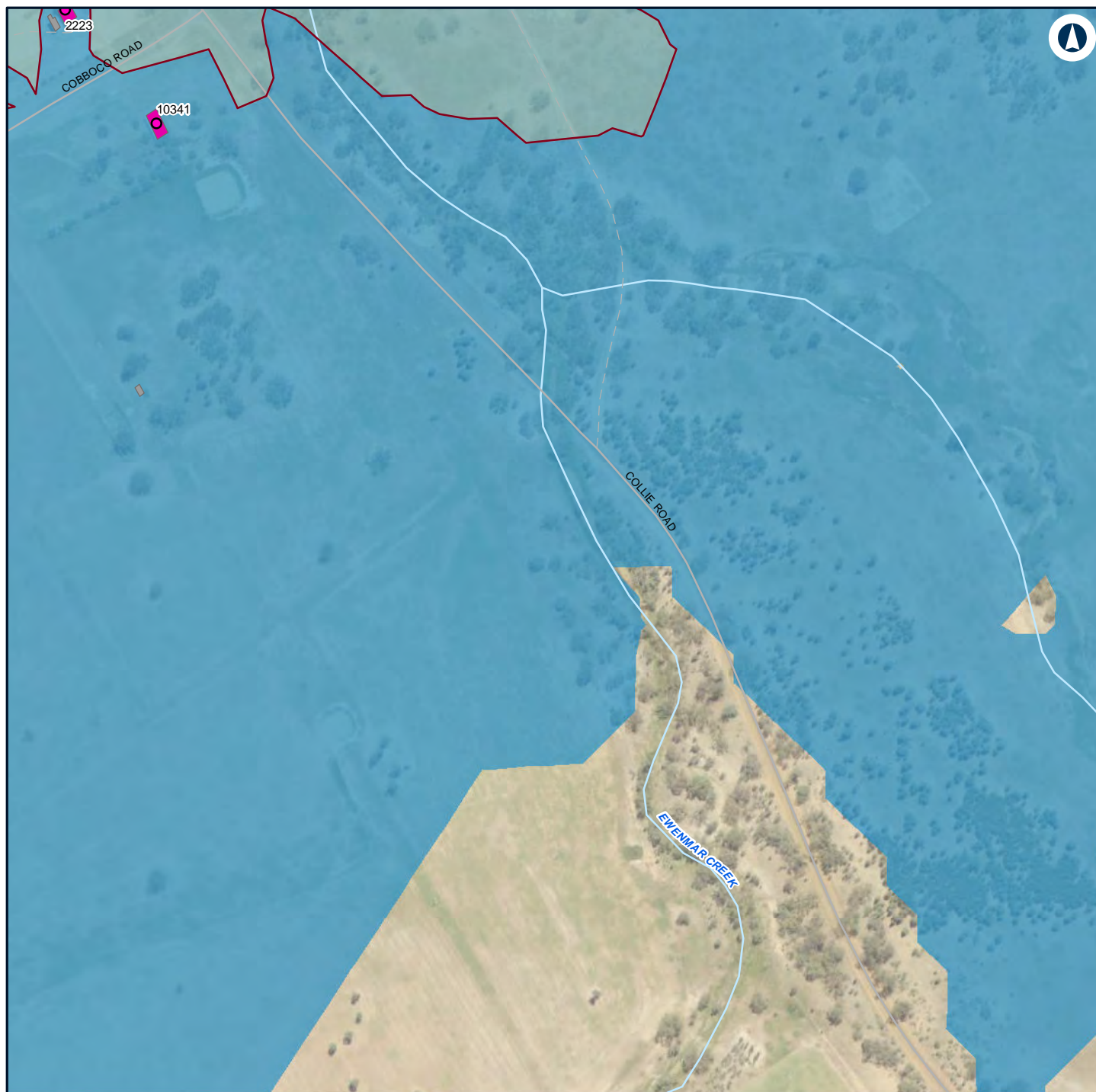
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Scale: 1:5,000

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LEGEND

Structure type

Residential

Other

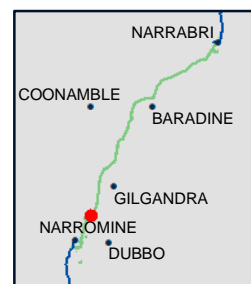
Residential

Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

30 - 35

35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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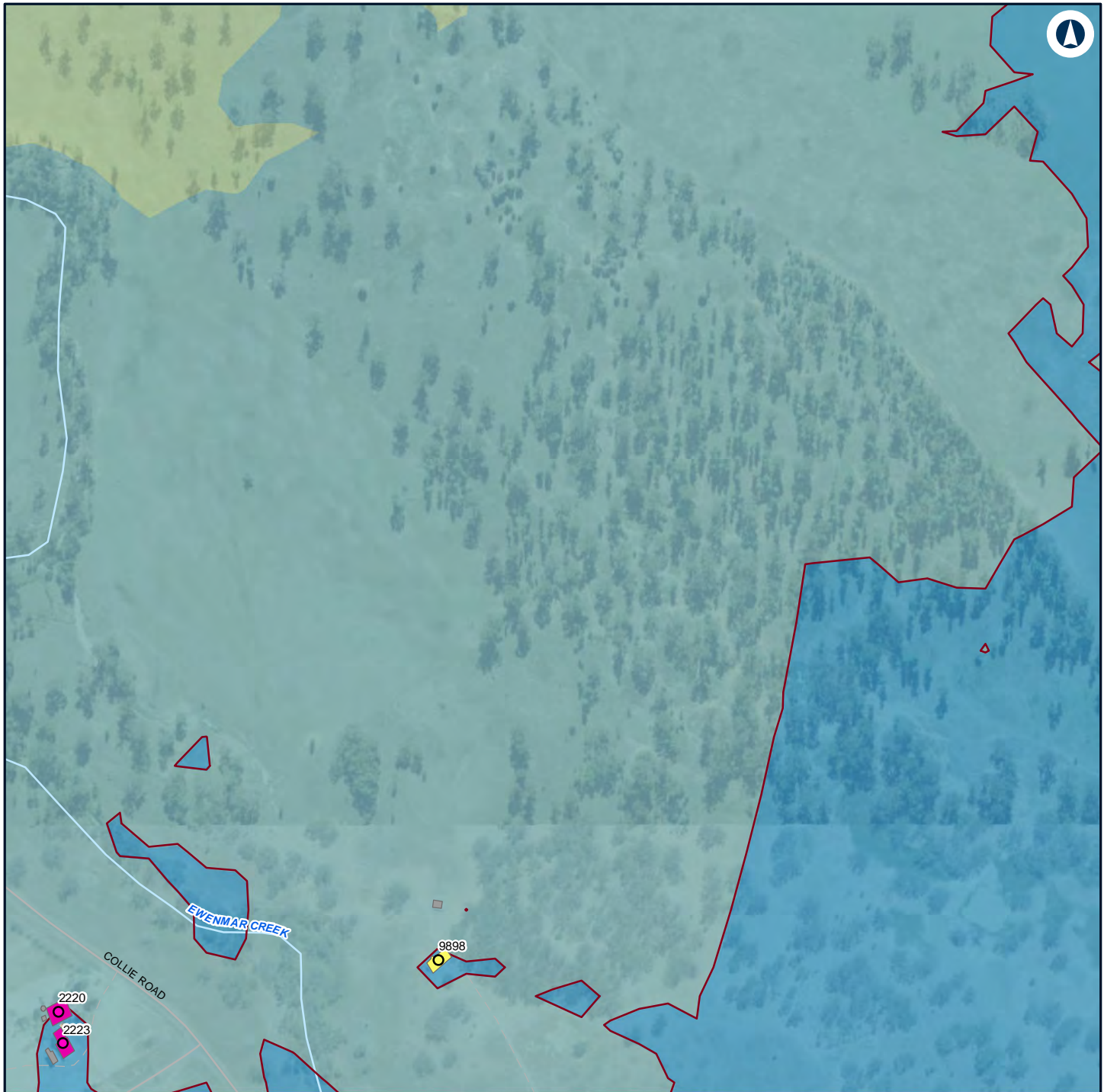
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LEGEND

Structure type

- Community
- Residential
- Community
- Other
- Residential
- Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

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



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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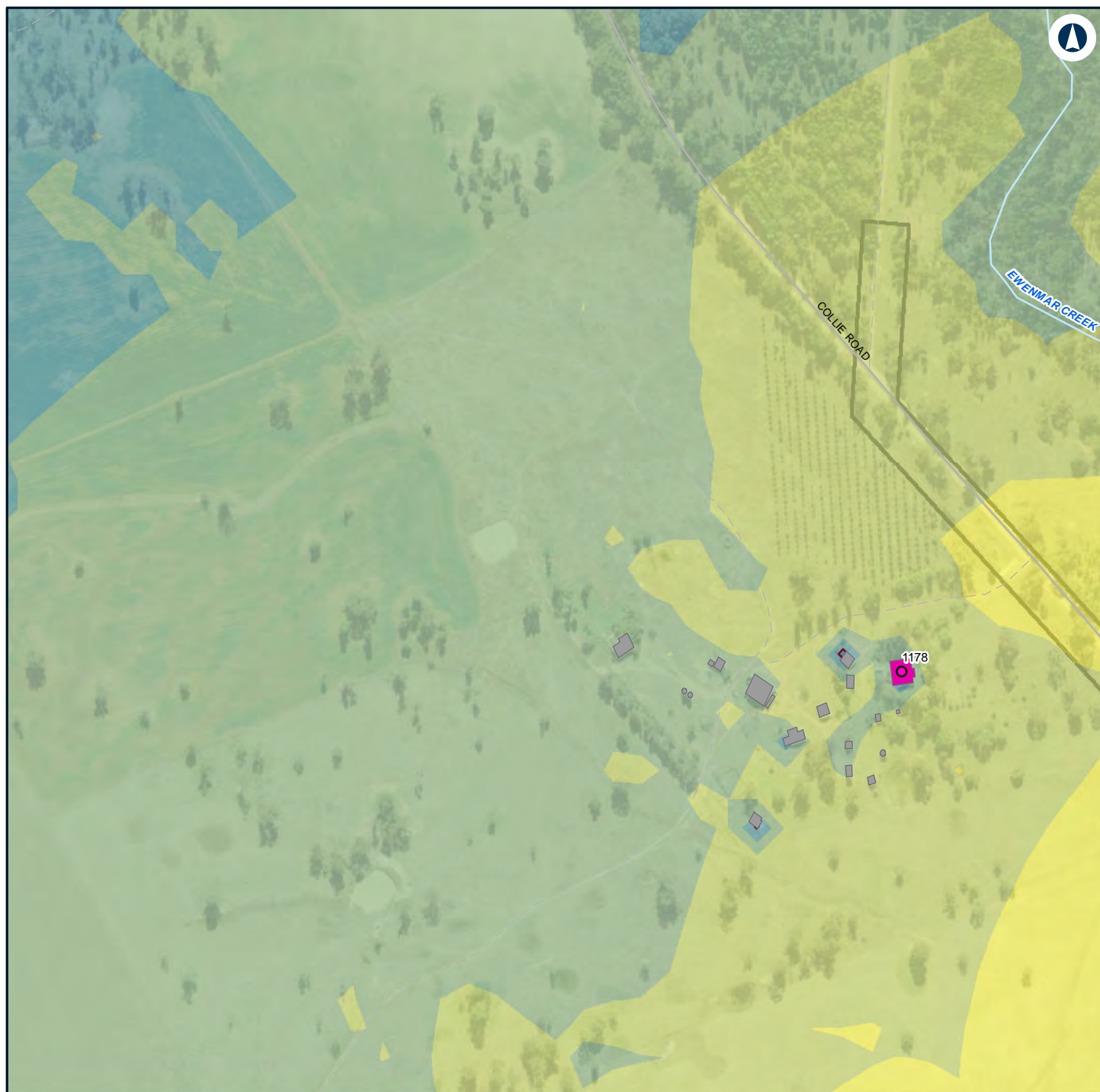
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Scale: 1:5,000

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LEGEND

Construction footprint

Structure type

Residential

Other

Residential

Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

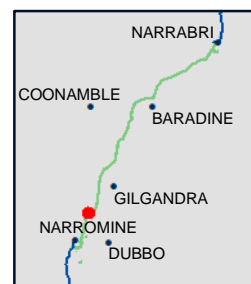
30 - 35

35 - 40

40 - 45

45 - 50

50 - 55



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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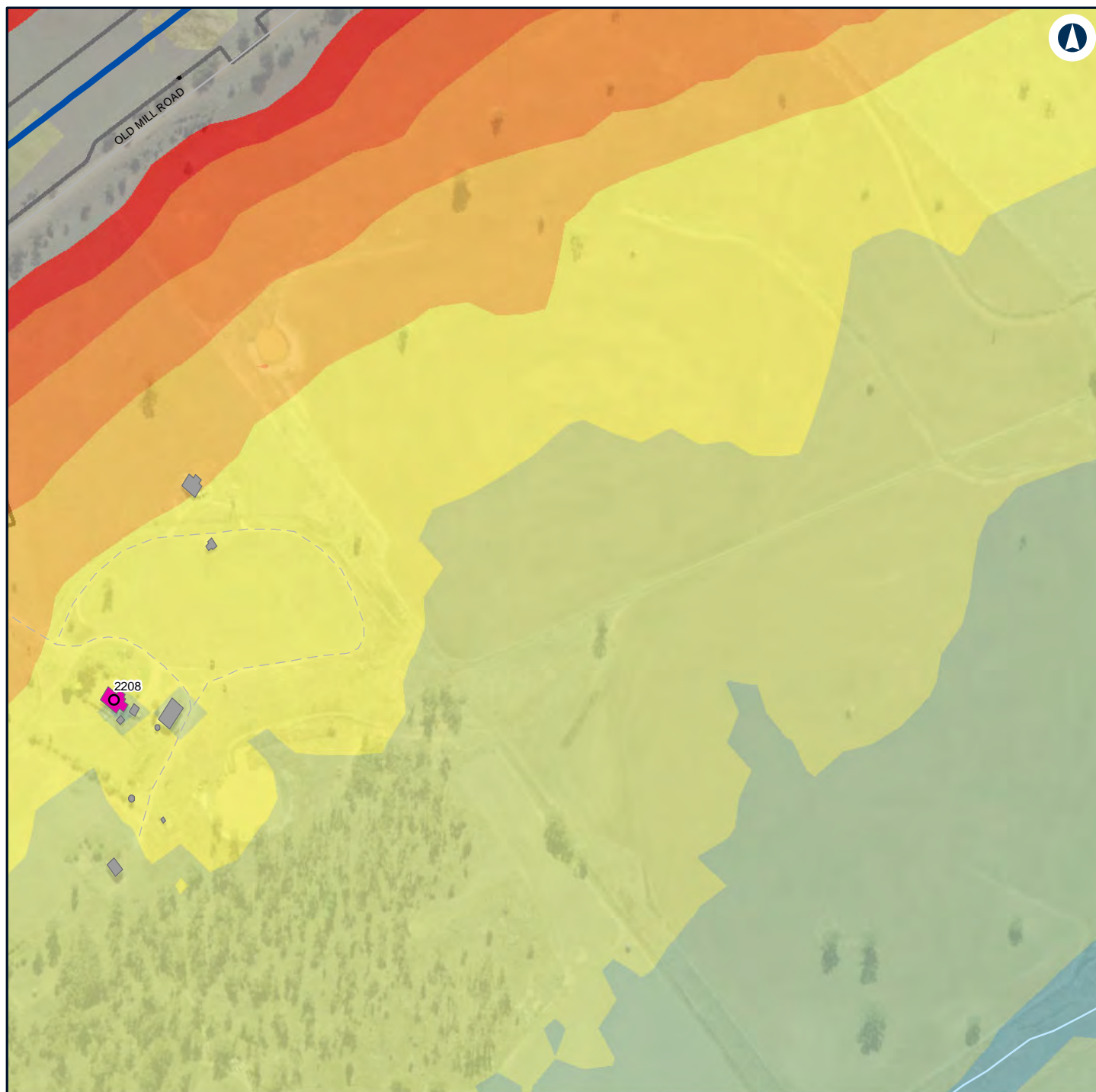
Author: GHD

Scale: 1:5,000

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

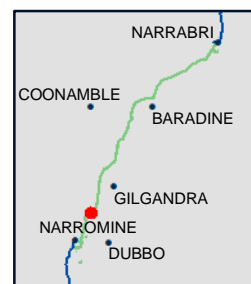
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LEGEND

Construction footprint	Noise level (dBA L_{Aeq} 15 minute)	65 - 70
Structure type	35 - 40	70 - 75
Residential	40 - 45	> 75
Other	45 - 50	
Residential	50 - 55	
Alignment	55 - 60	
	60 - 65	



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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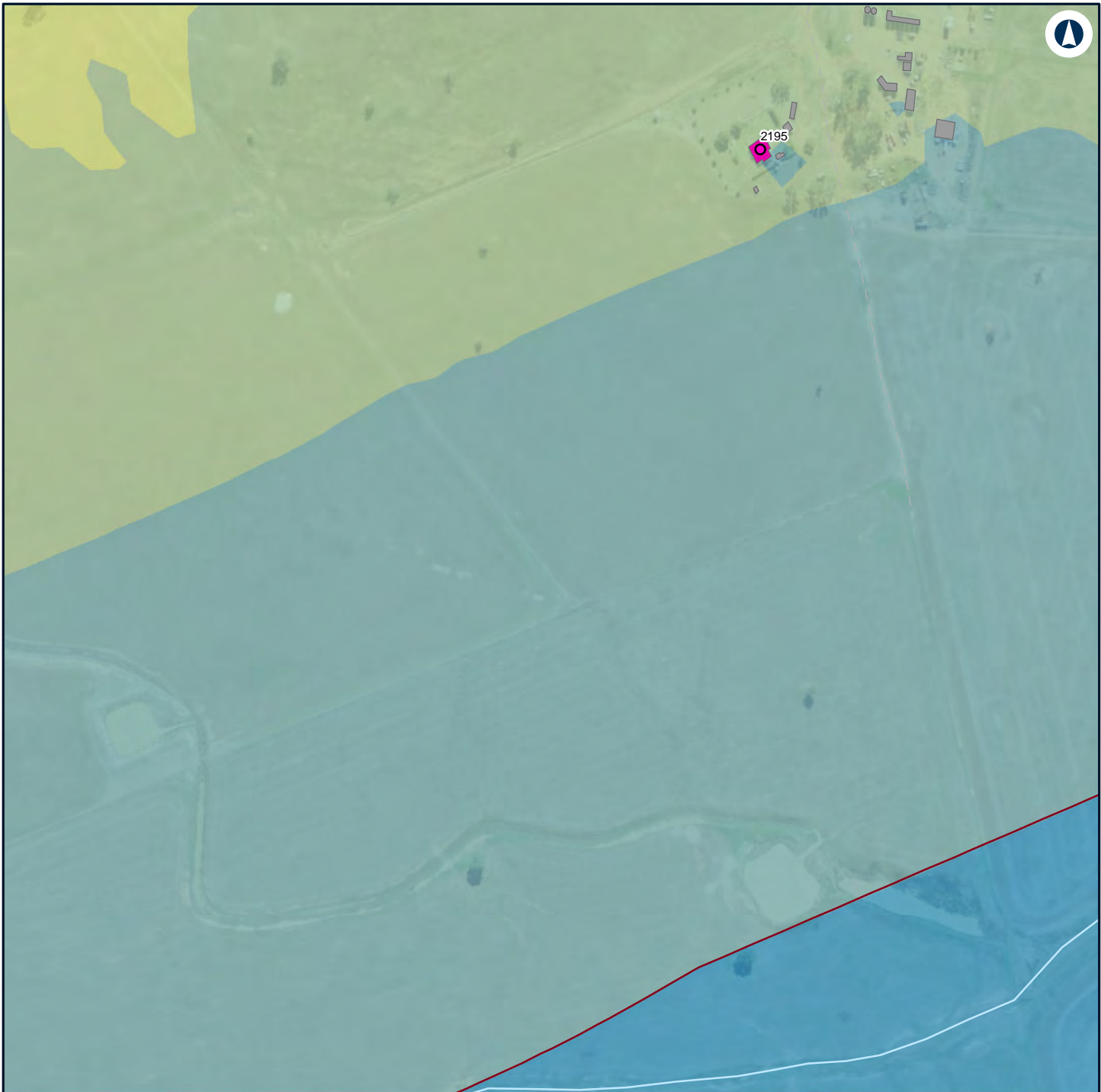
Author: GHD

Scale: 1:5,000

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

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LEGEND

Structure type

- Residential
- Other

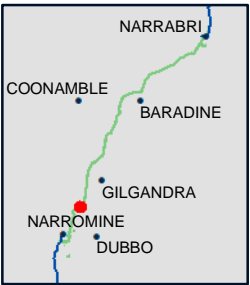
- Residential

- Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

- 30 - 35

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



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2 Km

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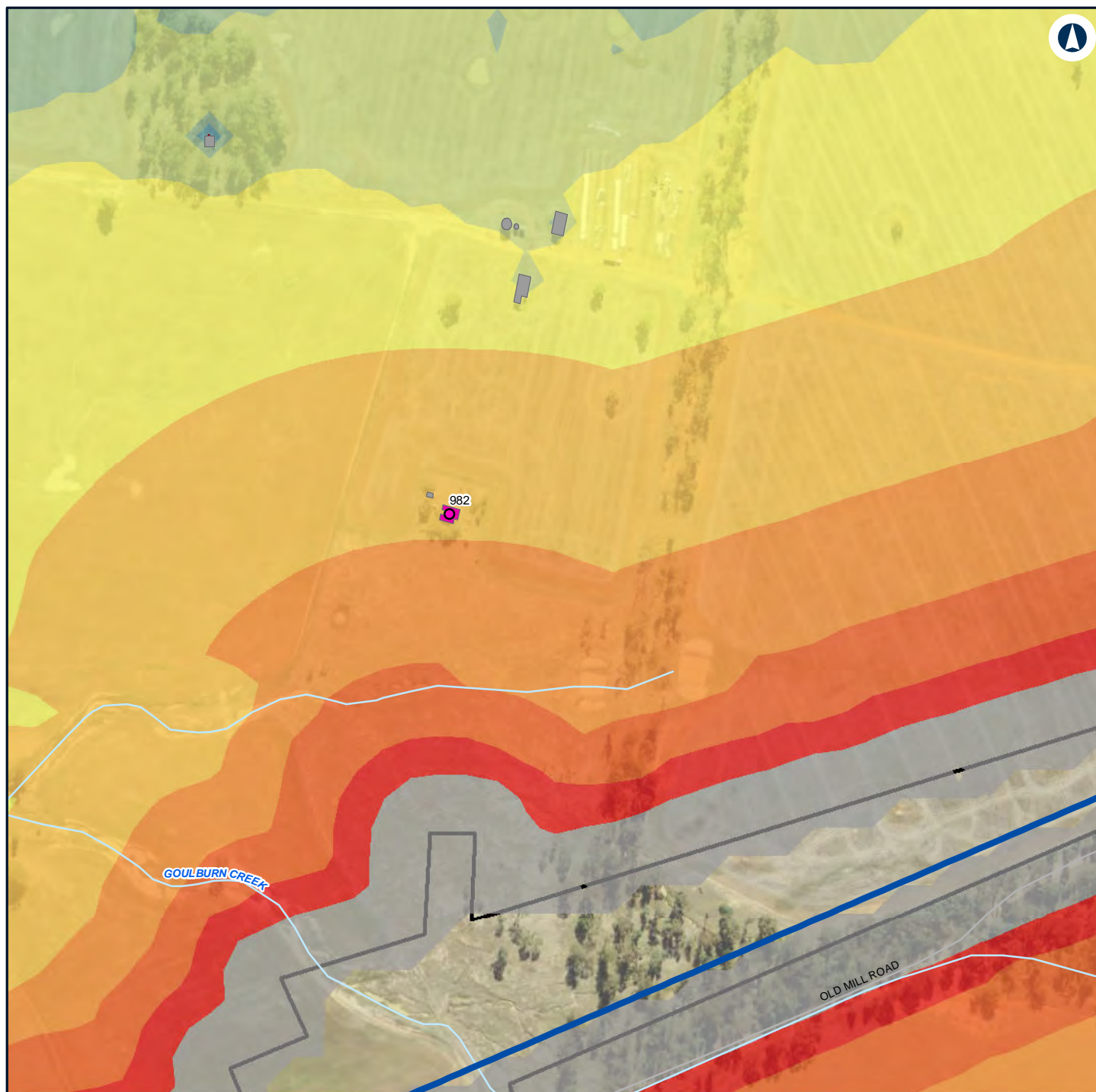
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Scale: 1:5,000

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

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LEGEND

Construction footprint

Structure type

Residential

Other

Residential

Alignment

Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

35 - 40

40 - 45

45 - 50

50 - 55

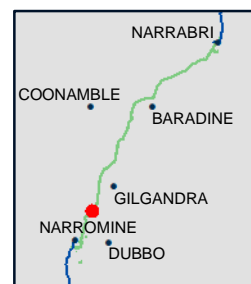
55 - 60

60 - 65

65 - 70

70 - 75

> 75



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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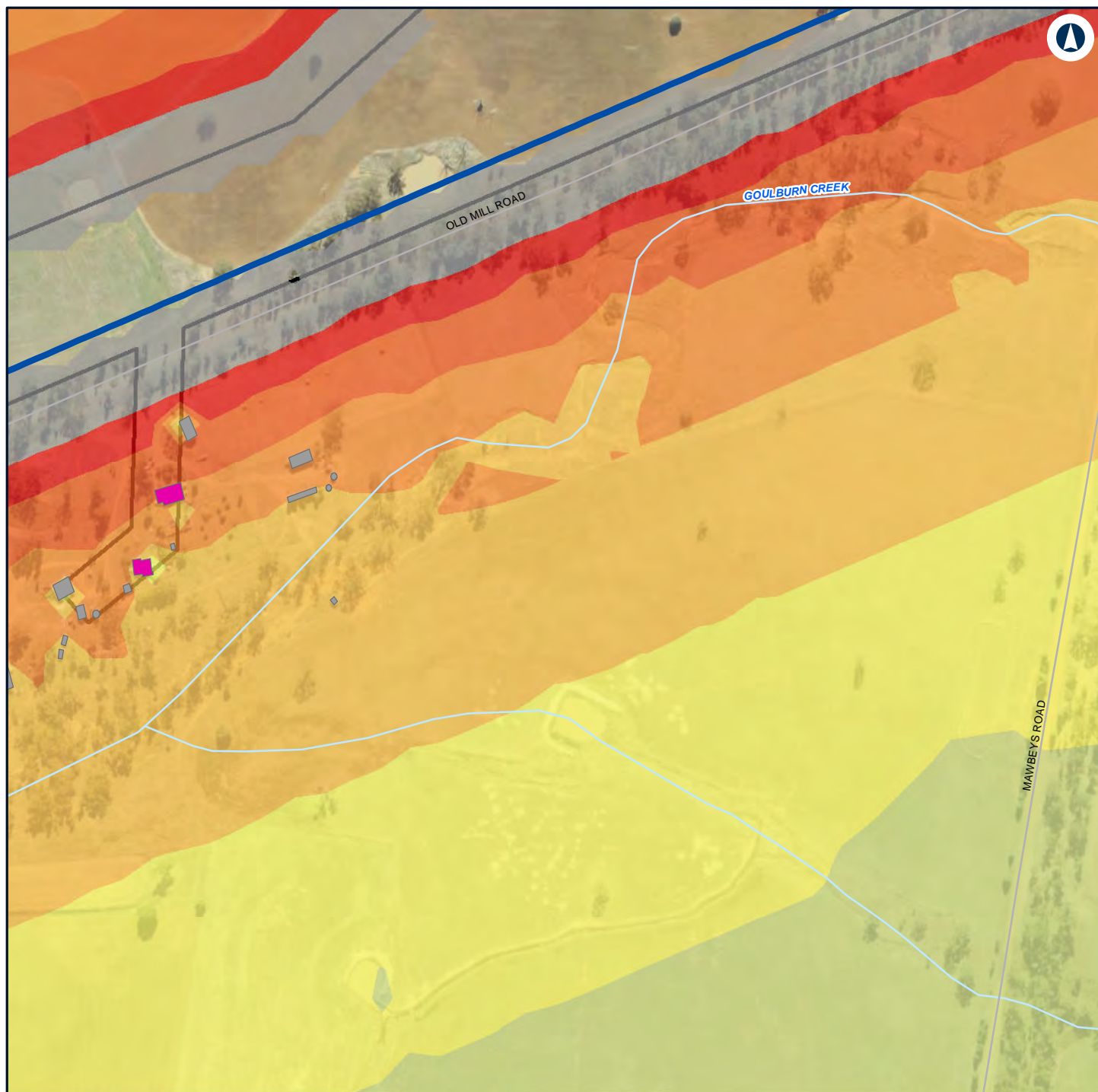
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Scale: 1:5,000

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

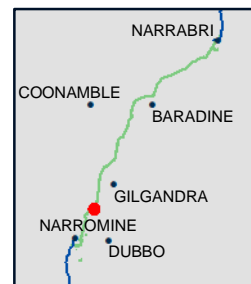
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LEGEND

	Construction footprint		55 - 60
	Other		60 - 65
	Residential		65 - 70
	Alignment		70 - 75
Noise level (dBA L_{Aeq} 15 minute)			> 75
			45 - 50
			50 - 55



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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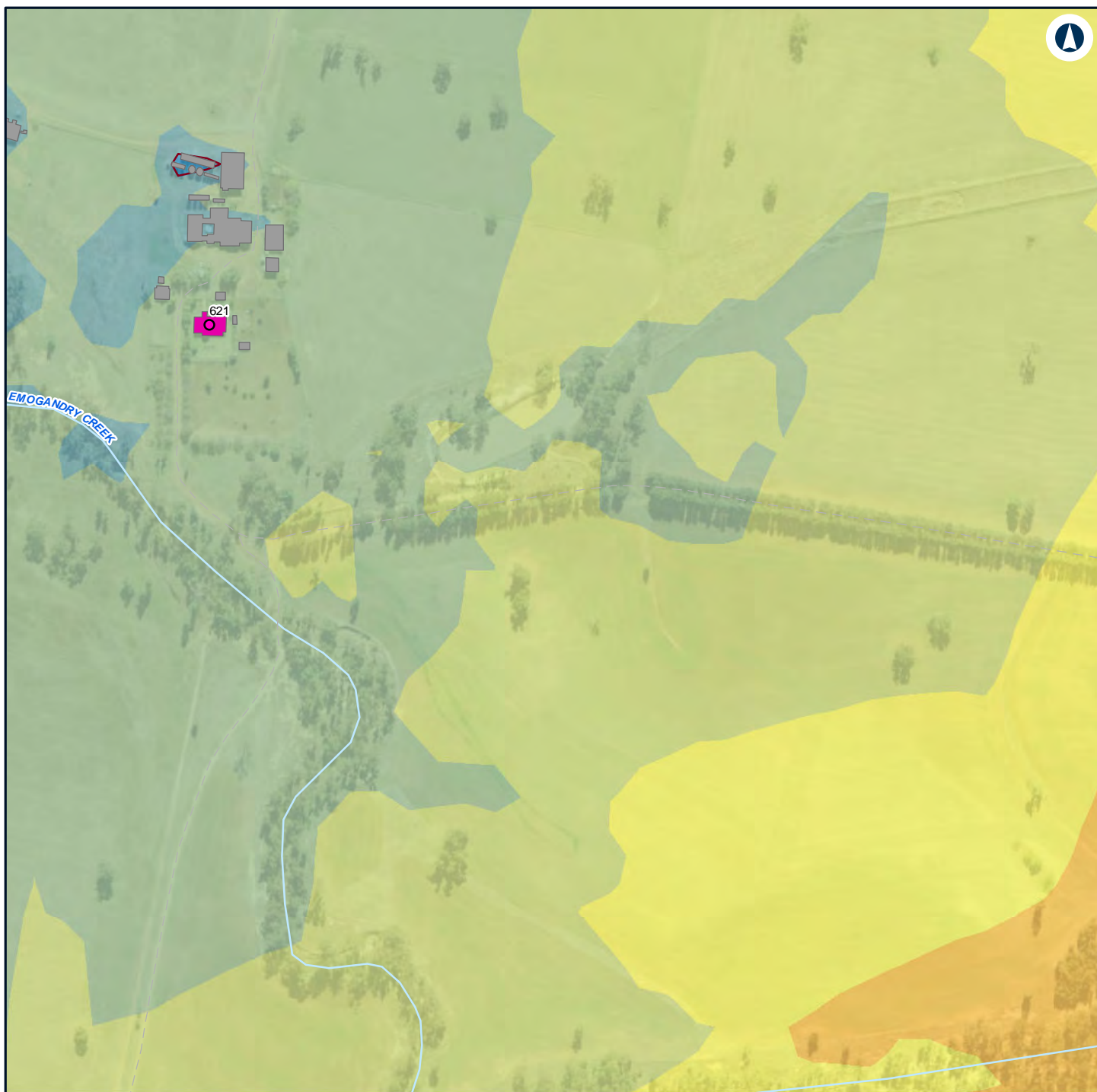
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Scale: 1:5,000

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LEGEND

Structure type

● Residential

■ Other

■ Residential

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40

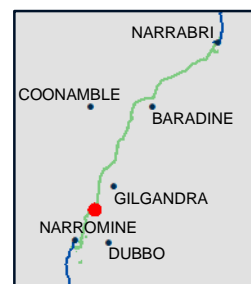
■ 40 - 45

■ 45 - 50

■ 50 - 55

■ 55 - 60

■ 60 - 65



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

Appendix F - Page 102 of 298

0 0.1 0.2
Km

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LEGEND

Structure type

● Residential

■ Other

■ Residential

— Night-time noise management level

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 RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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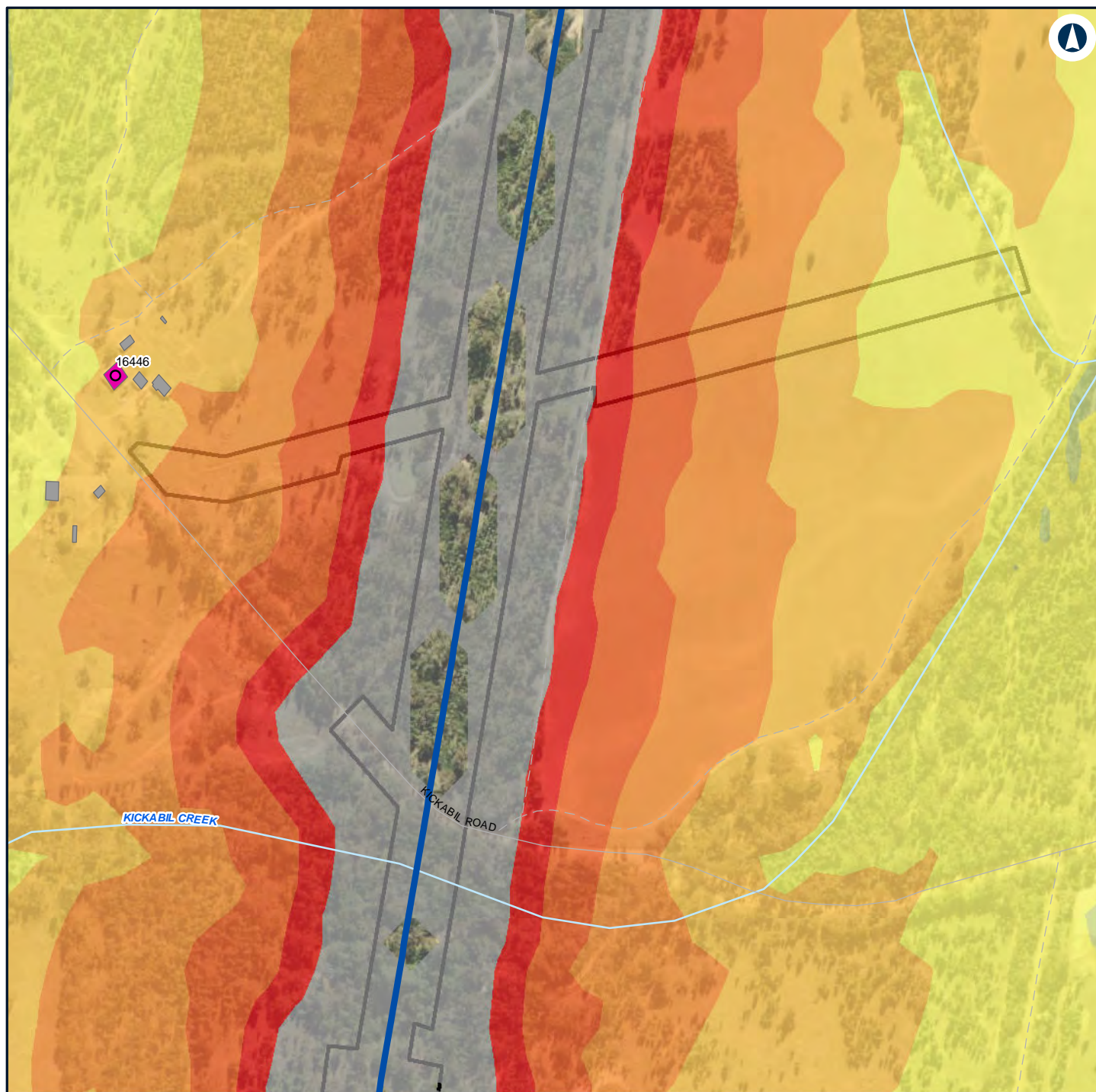
Author: GHD

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

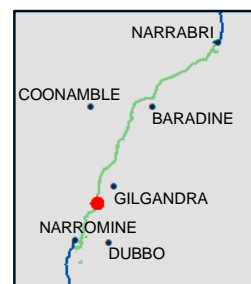
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LEGEND

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



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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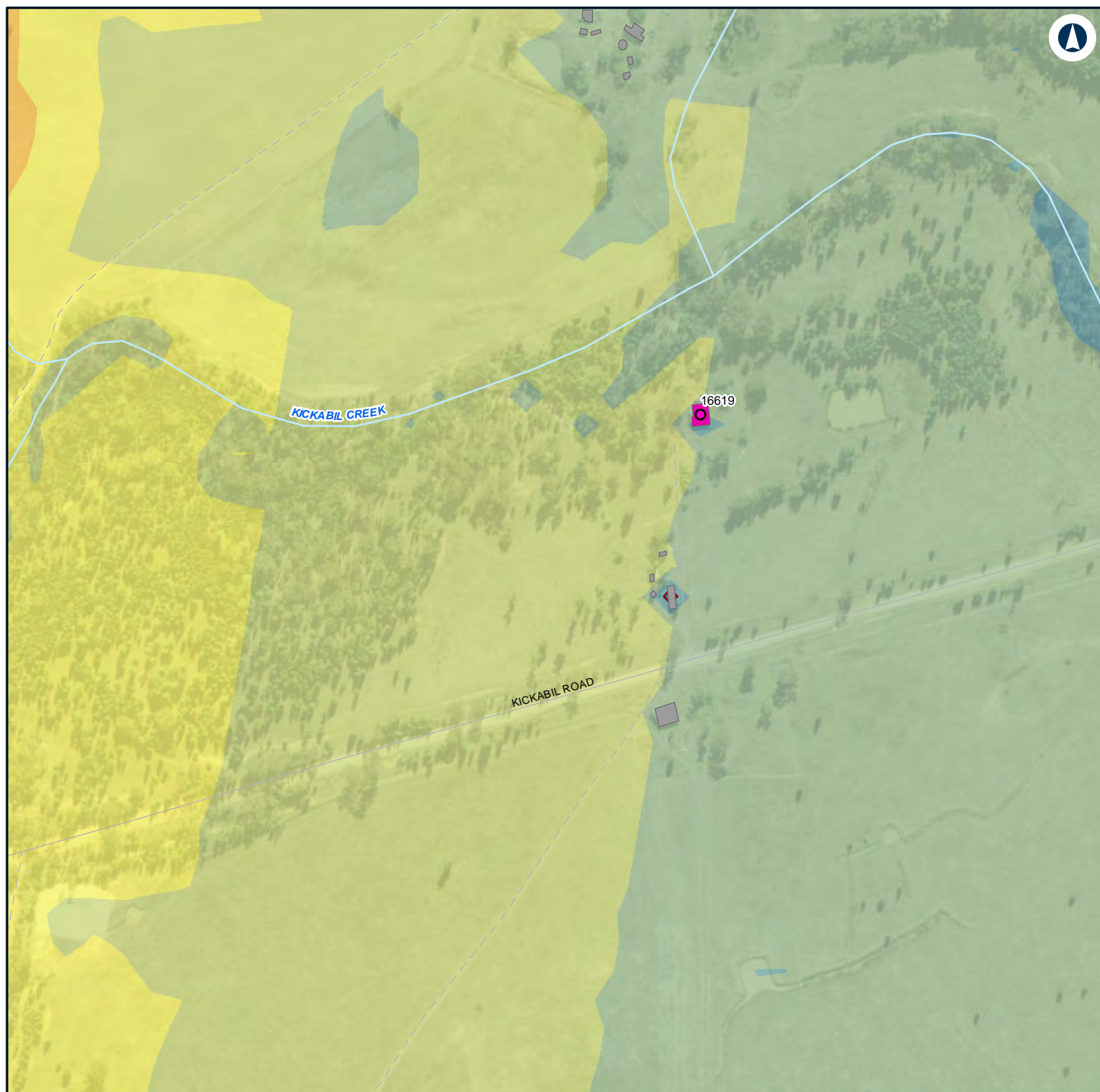
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LEGEND

Structure type

Residential

Other

Residential

Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

30 - 35

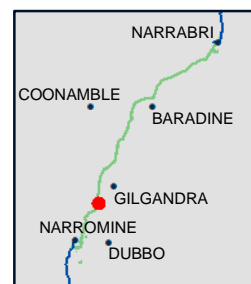
35 - 40

40 - 45

45 - 50

50 - 55

55 - 60



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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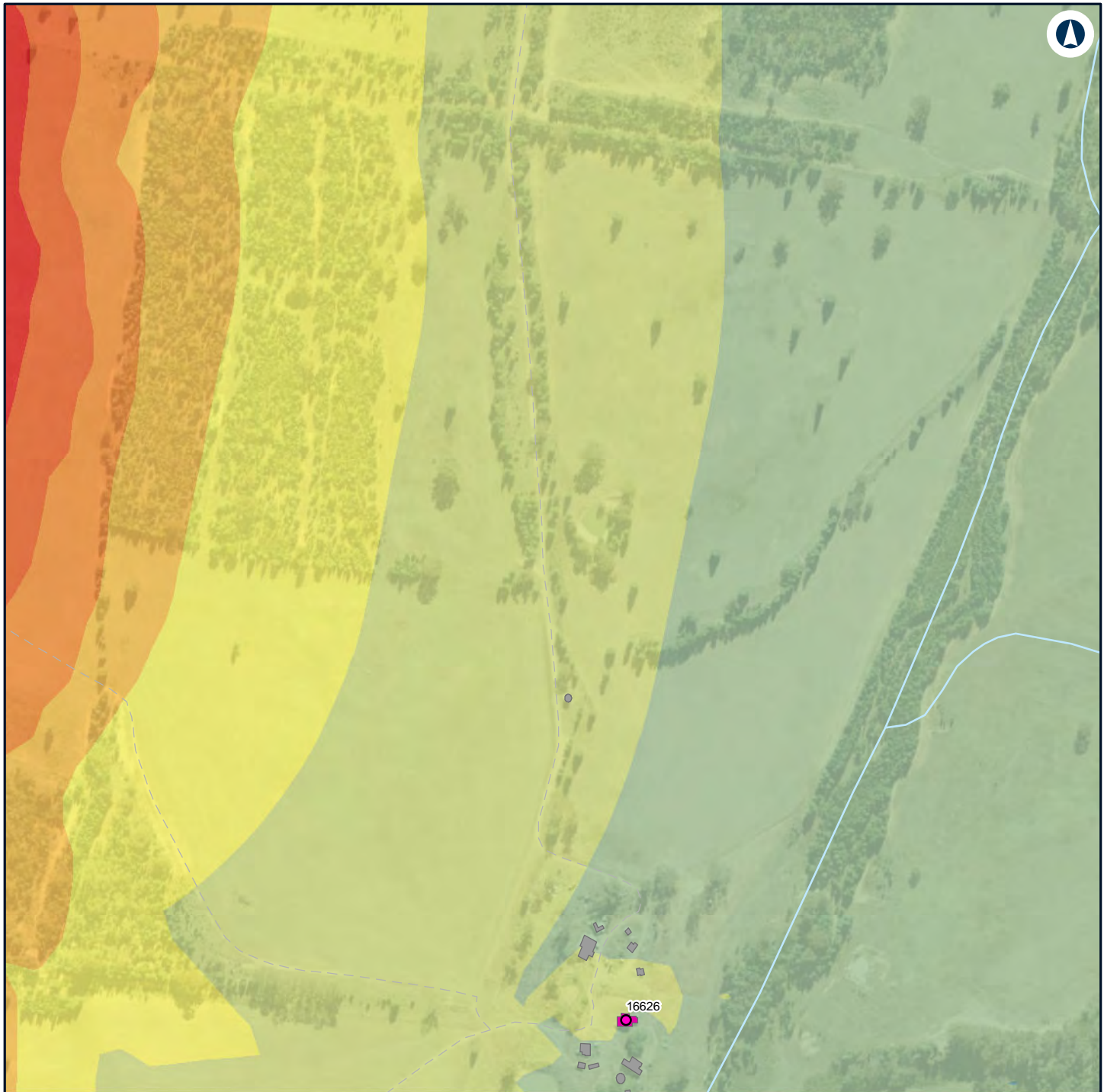
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LEGEND

Structure type

- Residential
- Other
- Residential

Noise level (dBA L_{Aeq} 15 minute)

- | | |
|---|--|
| ■ 35 - 40 | ■ 70 - 75 |
| ■ 40 - 45 | |

- | |
|---|
| ■ 45 - 50 |
| ■ 50 - 55 |
| ■ 55 - 60 |
| ■ 60 - 65 |
| ■ 65 - 70 |



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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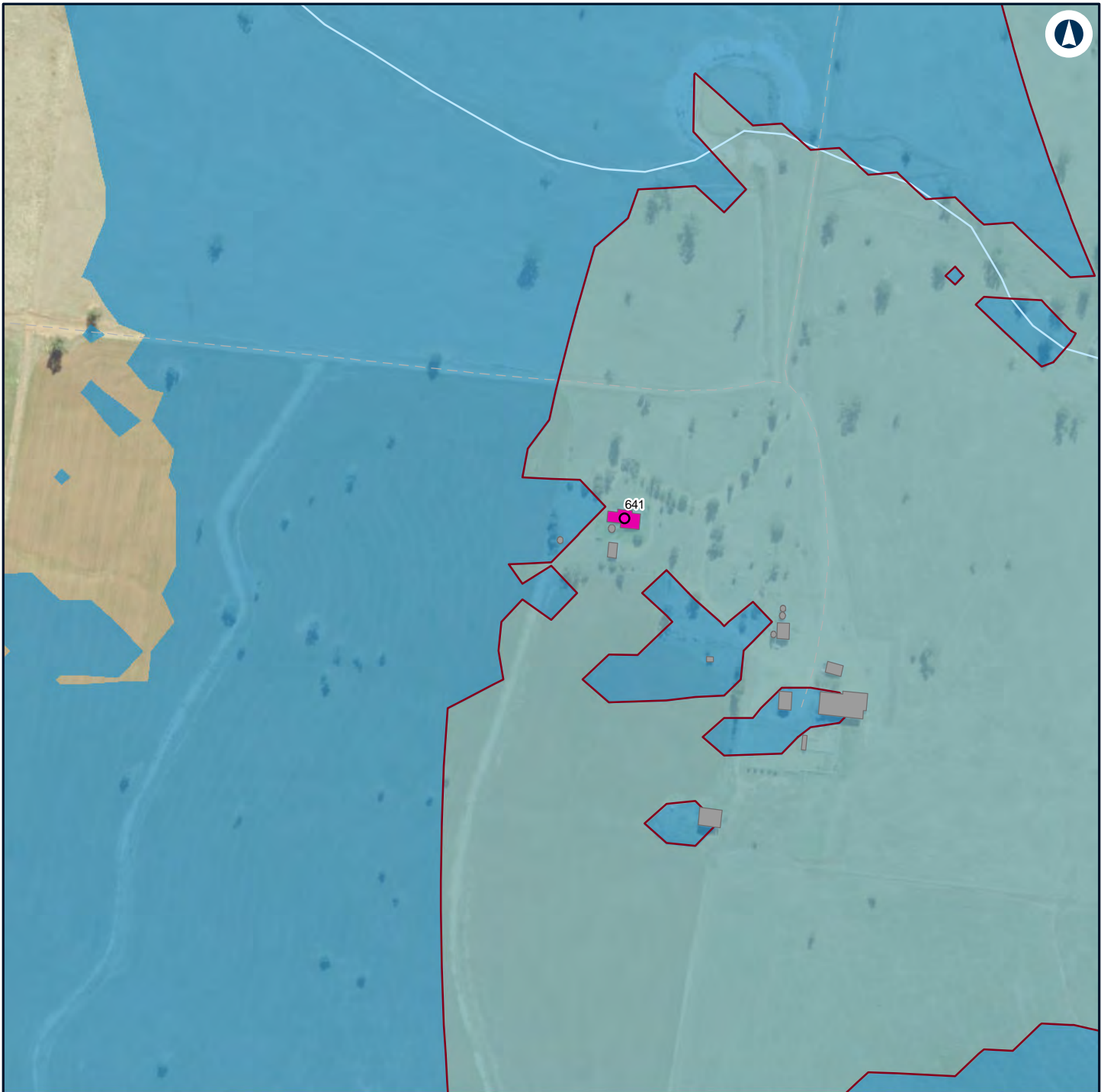
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LEGEND

Structure type

Residential

Other

Residential

Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

30 - 35

35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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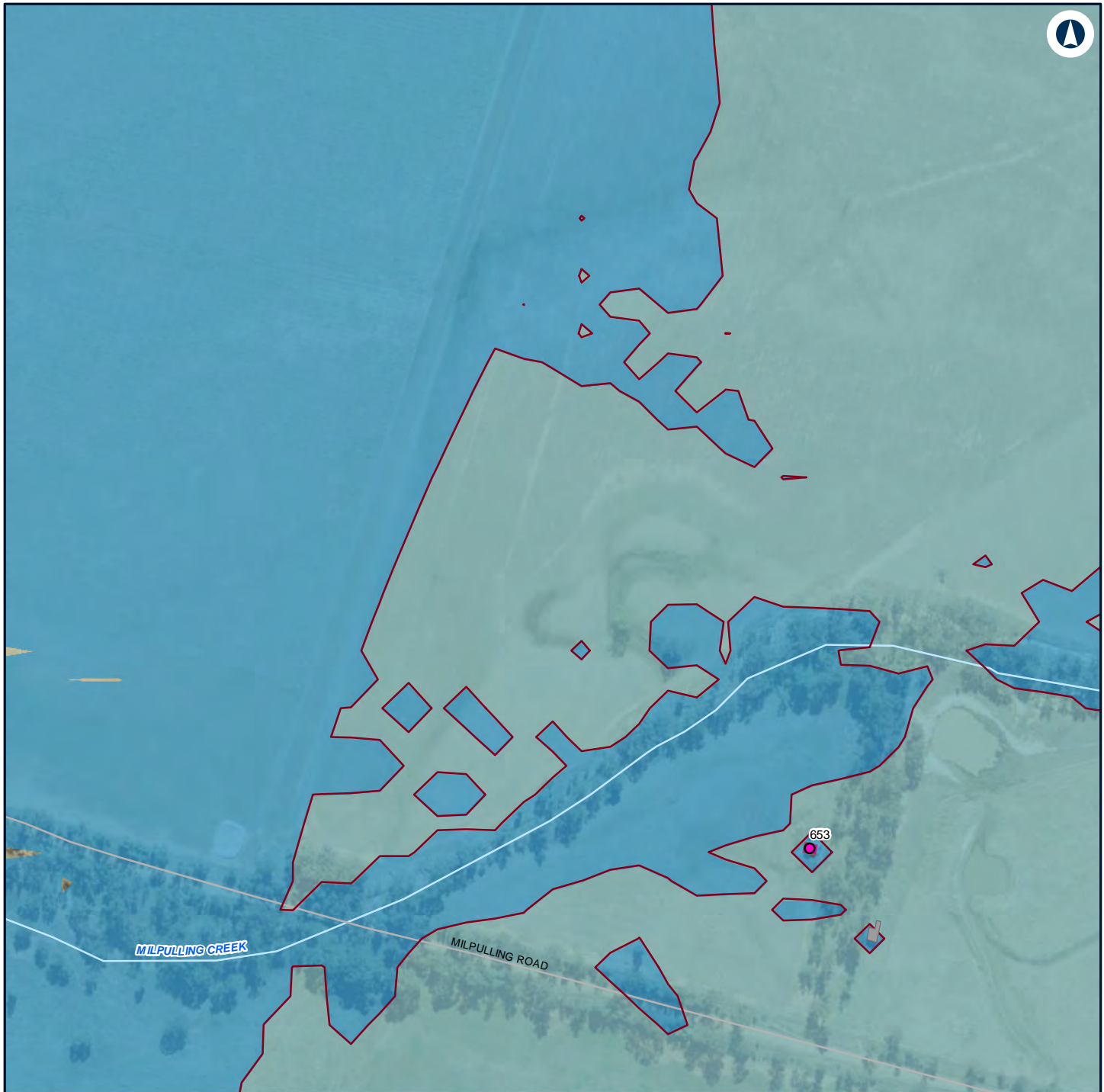
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LEGEND

Structure type

● Residential

■ Other

■ Residential

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40

■ 40 - 45



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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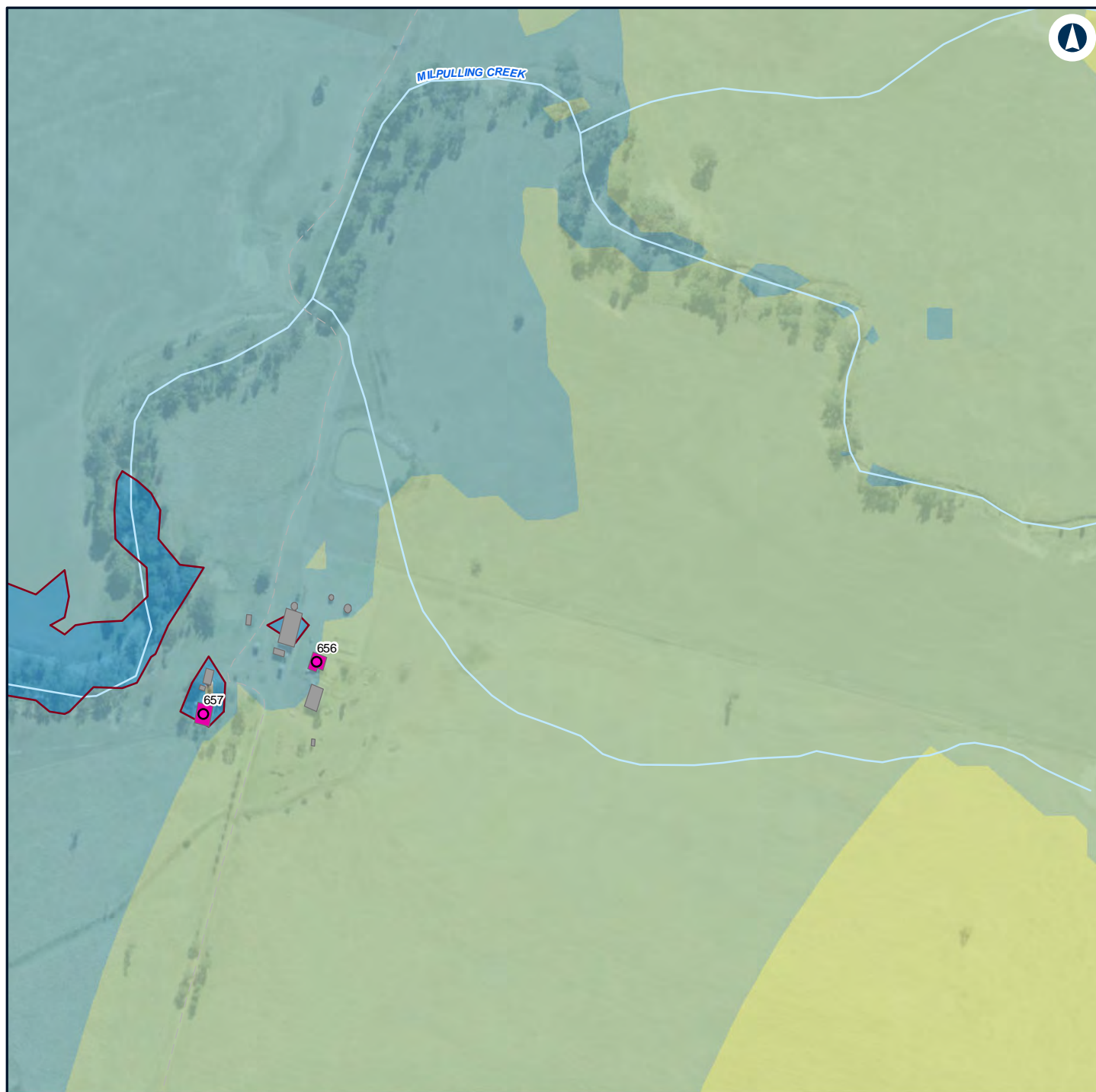
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LEGEND

Structure type

Residential

Other

Residential

Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

30 - 35

35 - 40

40 - 45

45 - 50



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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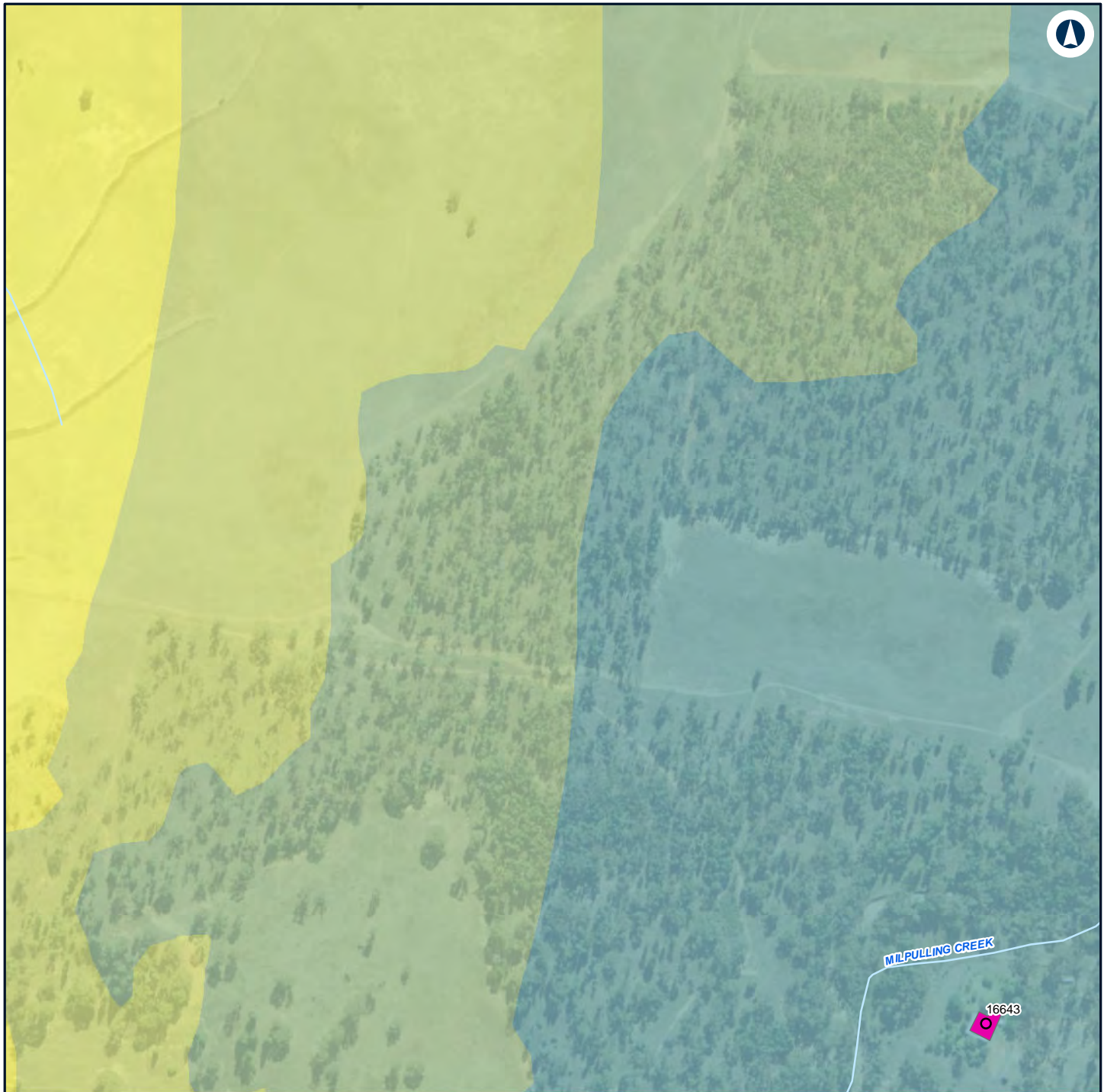
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LEGEND

Structure type

- Residential
- Residential

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

- 35 - 40
- 40 - 45

- 45 - 50
- 50 - 55



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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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

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40

■ 40 - 45

■ 45 - 50



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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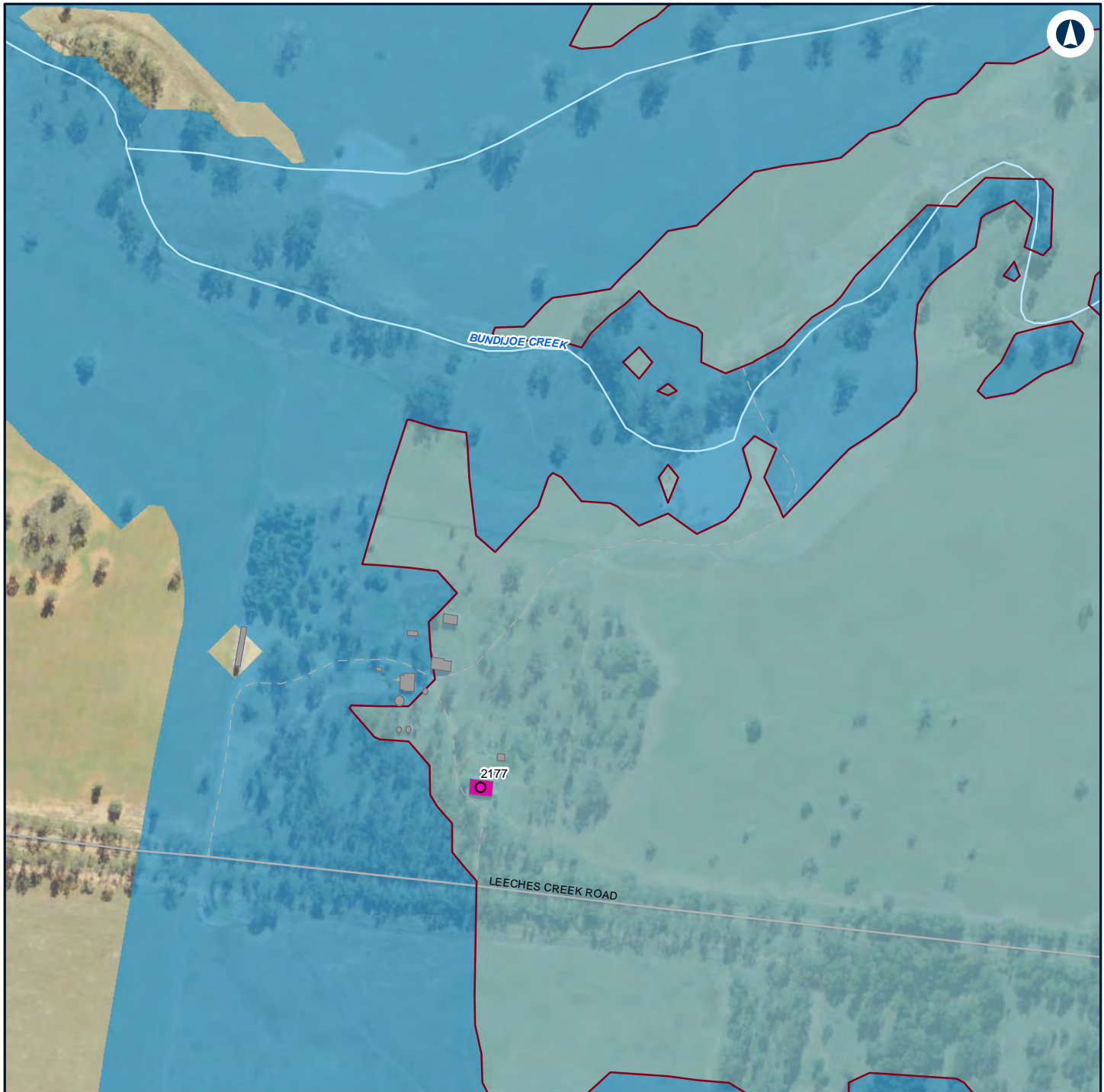
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LEGEND

Structure type

● Residential

■ Other

■ Residential

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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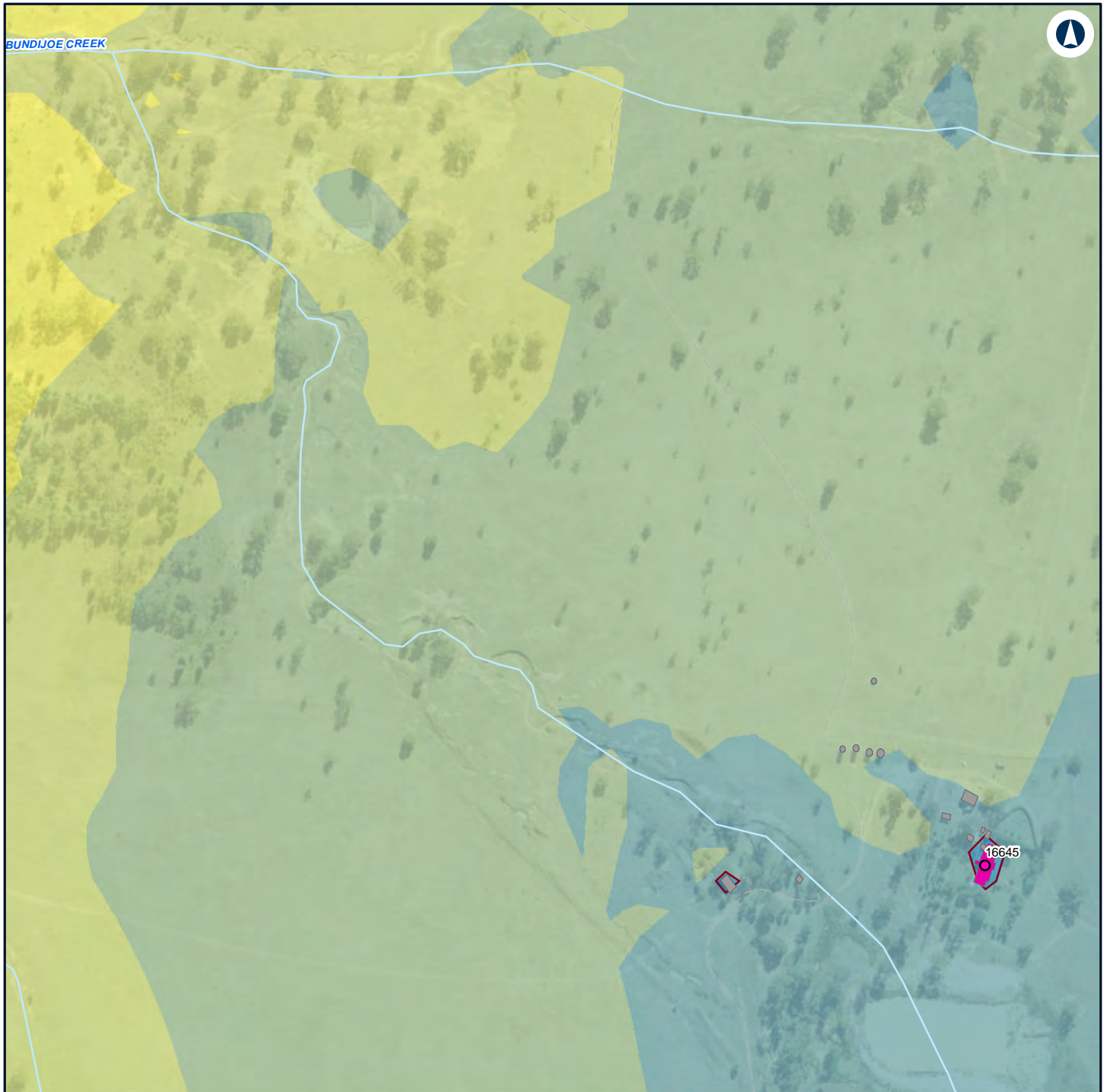
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LEGEND

Structure type

- Residential
- Other
- Residential

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

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



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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LEGEND

Structure type

Residential

Other

Residential

Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

30 - 35

35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2 Km

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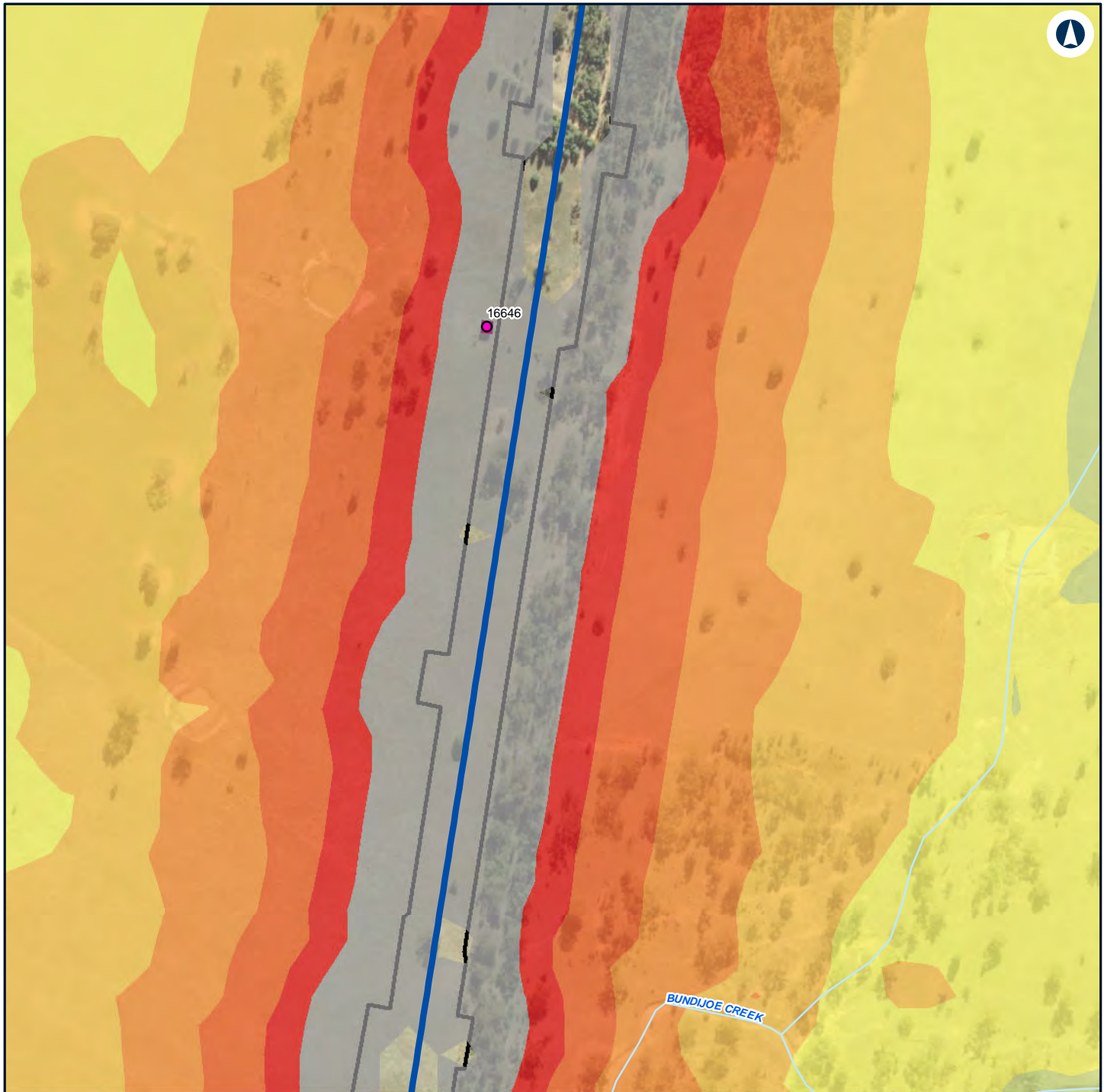
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LEGEND

Construction footprint	50 - 55
Structure type	55 - 60
Residential	60 - 65
Residential	65 - 70
Alignment	70 - 75
Noise level (dBA L_{Aeq} 15 minute)	> 75
45 - 50	



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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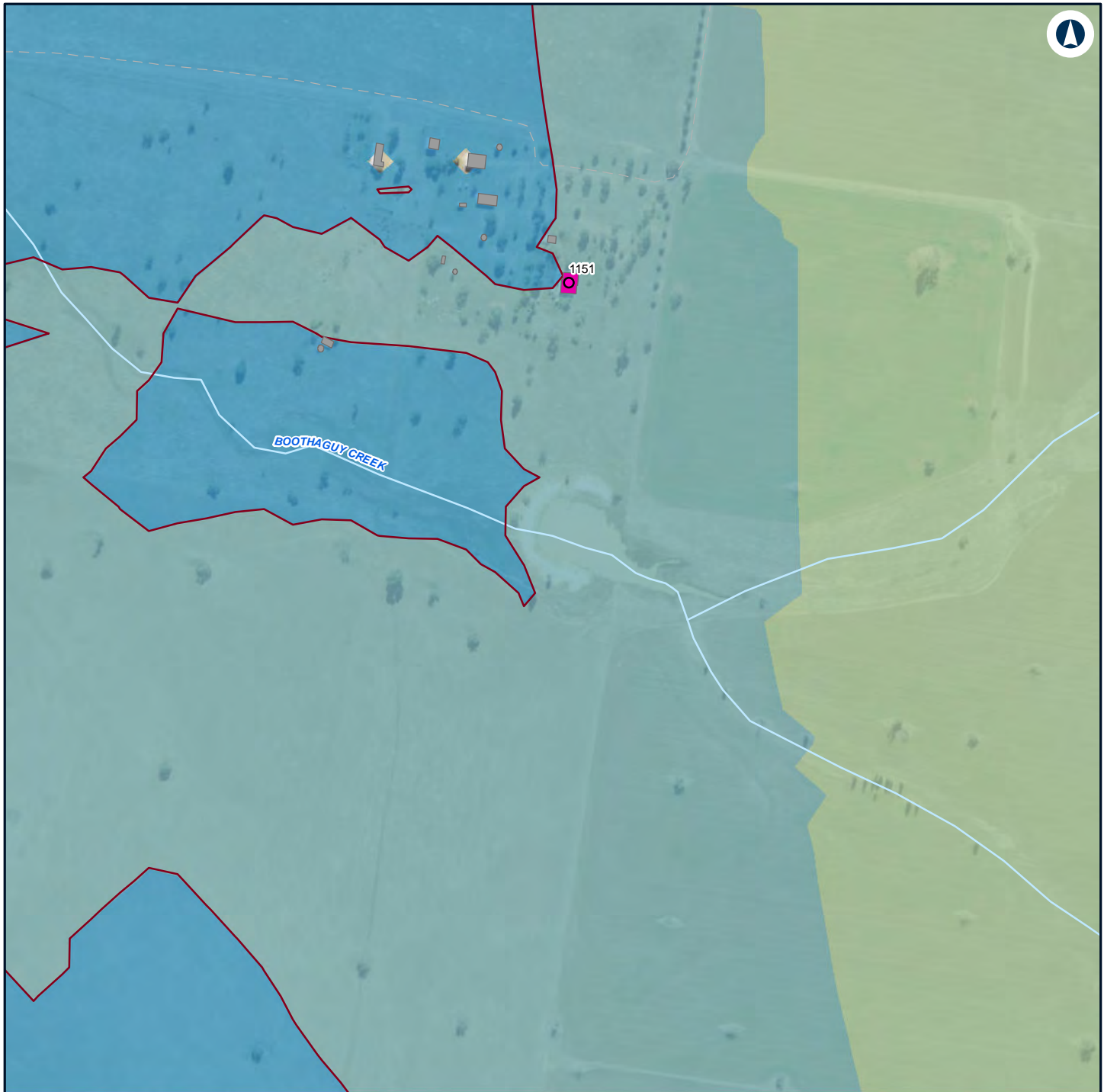
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LEGEND

Structure type

● Residential

■ Other

■ Residential

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40

■ 40 - 45



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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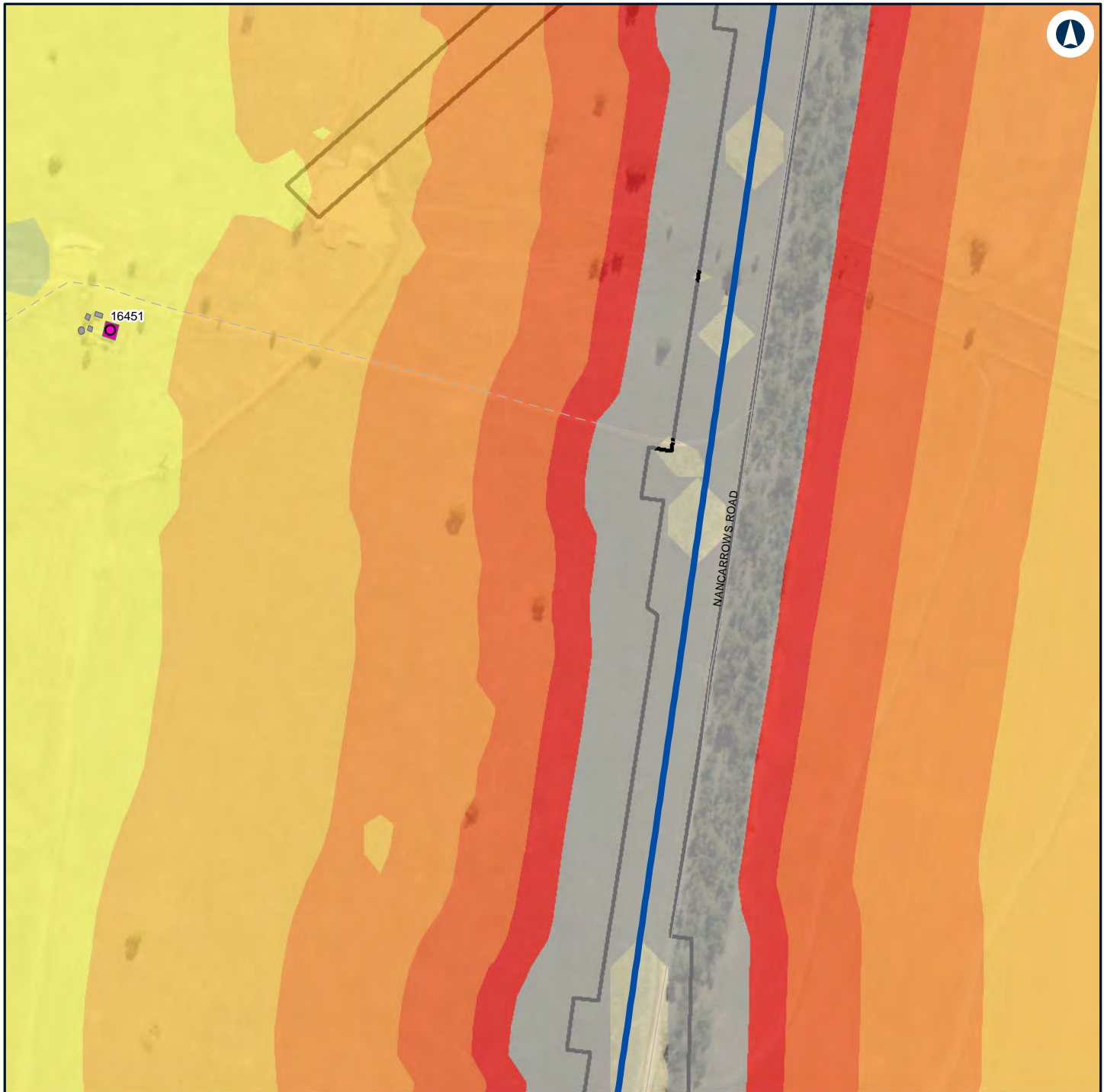
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LEGEND

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



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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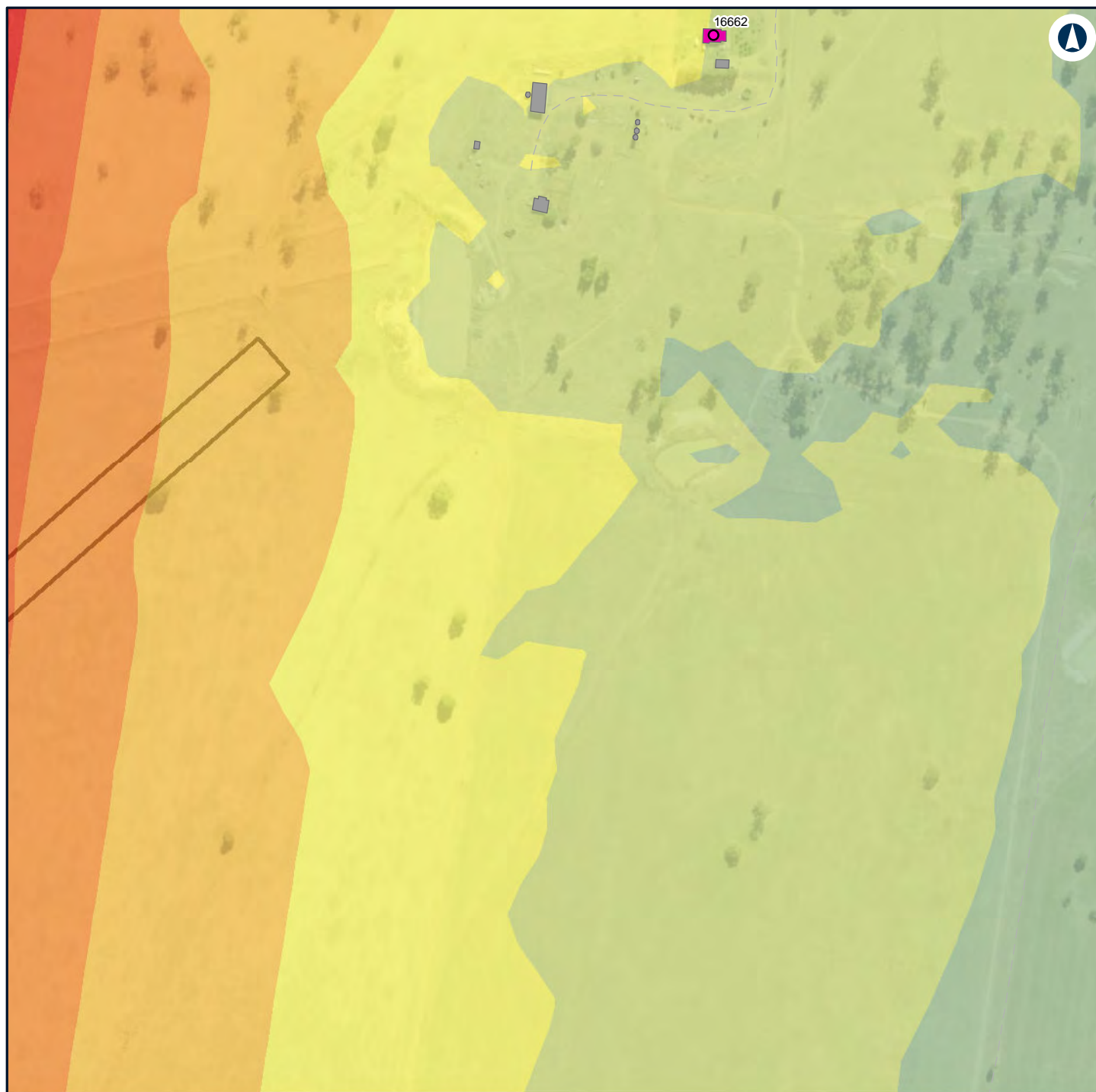
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LEGEND

	Construction footprint		40 - 45
Structure type			45 - 50
	Residential		50 - 55
	Other		55 - 60
	Residential		60 - 65
Noise level (dBA L_{Aeq} 15 minute)			65 - 70
	35 - 40		70 - 75



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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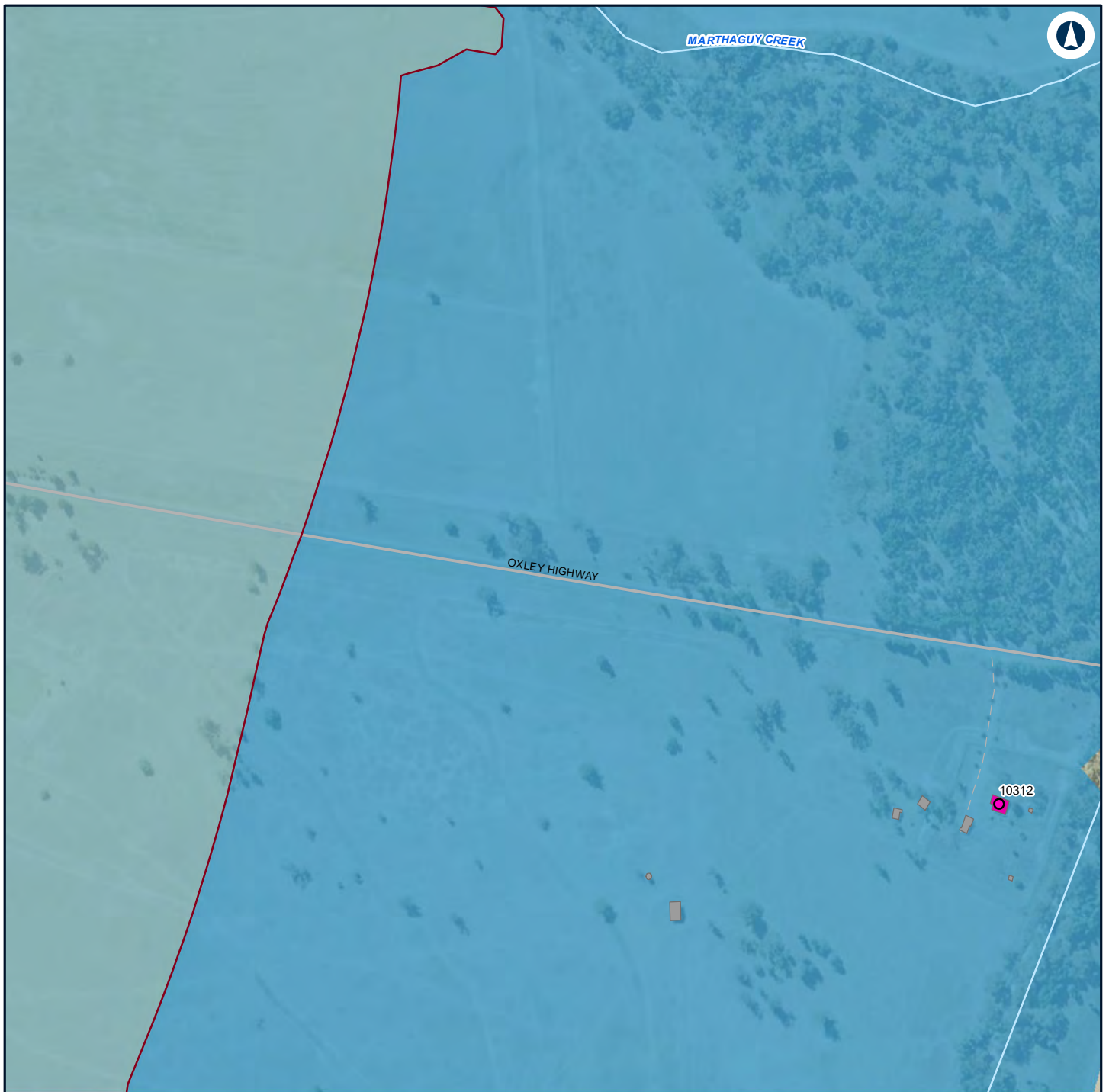
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LEGEND

Structure type

● Residential

■ Other

■ Residential

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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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 RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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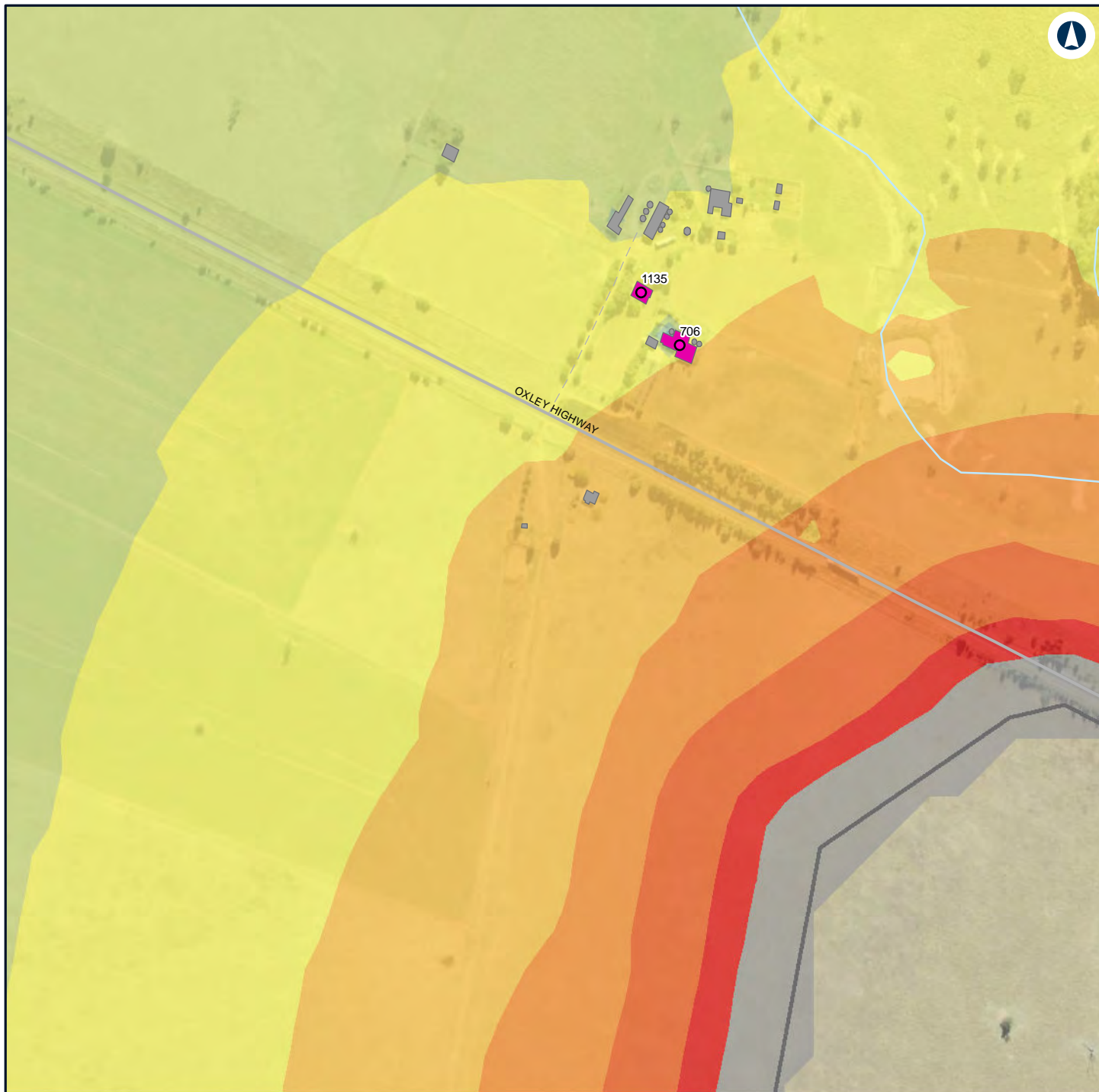
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LEGEND

Construction footprint	40 - 45	> 75
Structure type	45 - 50	
Residential	50 - 55	
Other	55 - 60	
Residential	60 - 65	
Noise level (dBA L_{Aeq} 15 minute)	65 - 70	
35 - 40	70 - 75	



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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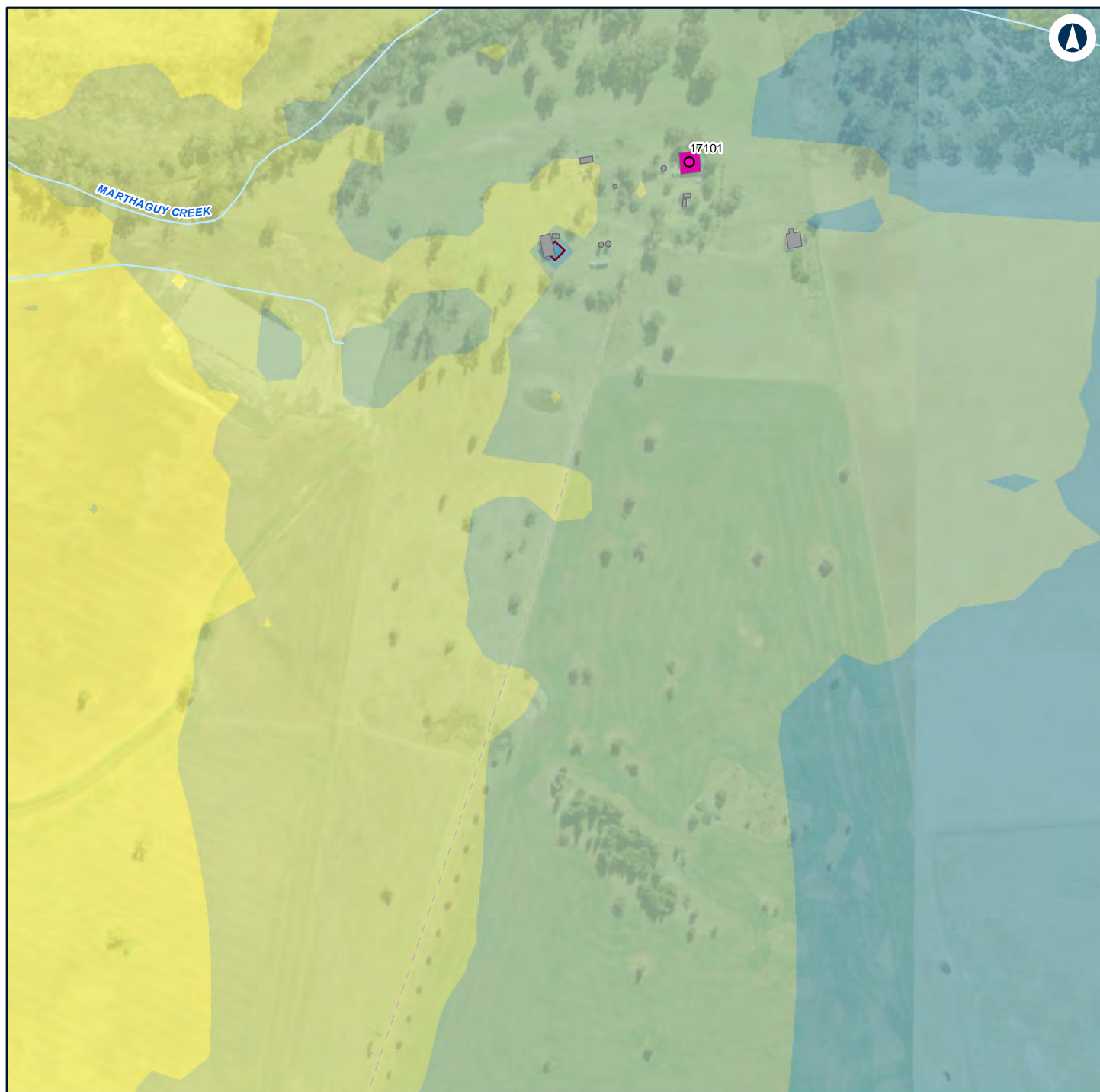
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LEGEND

Structure type

● Residential

■ Other

■ Residential

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40

■ 40 - 45

■ 45 - 50

■ 50 - 55



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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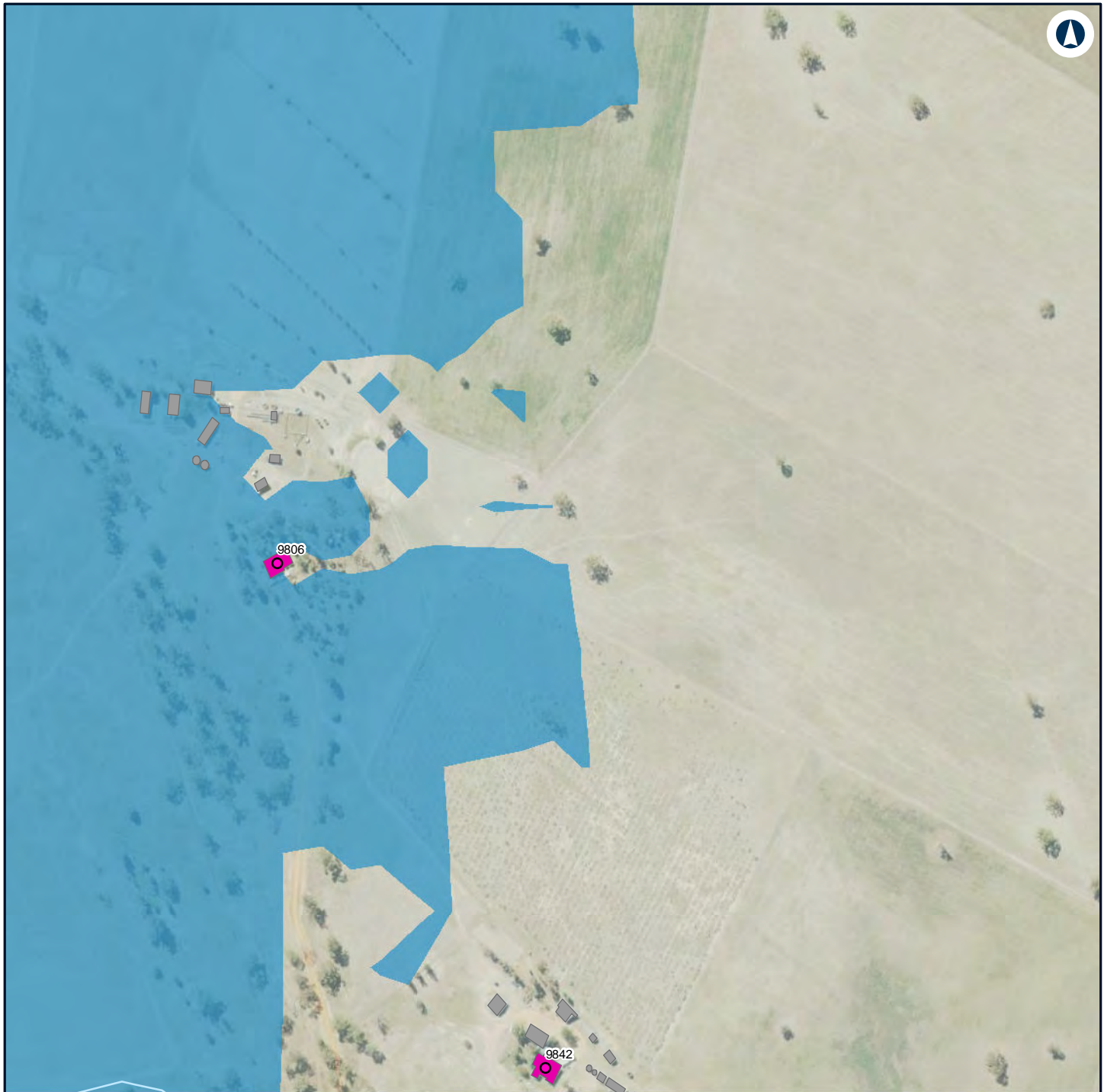
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LEGEND

Structure type

- Residential
- Other
- Residential

Noise level (dBA L_{Aeq} 15 minute)

- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

Appendix F - Page 123 of 298

0 0.1 0.2
Km

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LEGEND

Structure type

Residential

Other

Residential

Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

30 - 35

35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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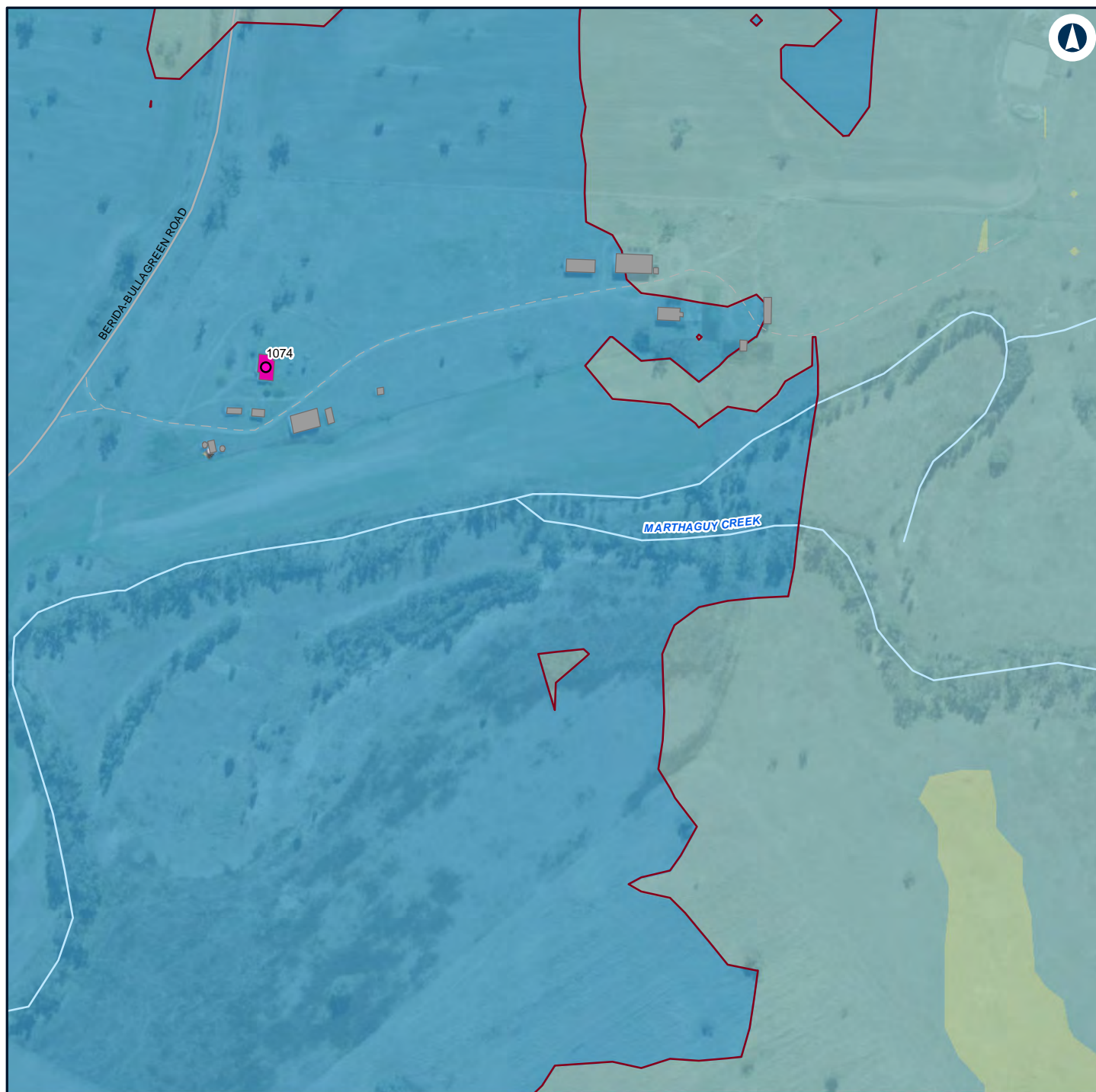
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LEGEND

Structure type

Residential

Other

Residential

Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

30 - 35

35 - 40

40 - 45



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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LEGEND

Structure type

● Residential

■ Other

■ Residential

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40

■ 40 - 45



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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LEGEND

Structure type

● Residential

■ Other

■ Residential

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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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 RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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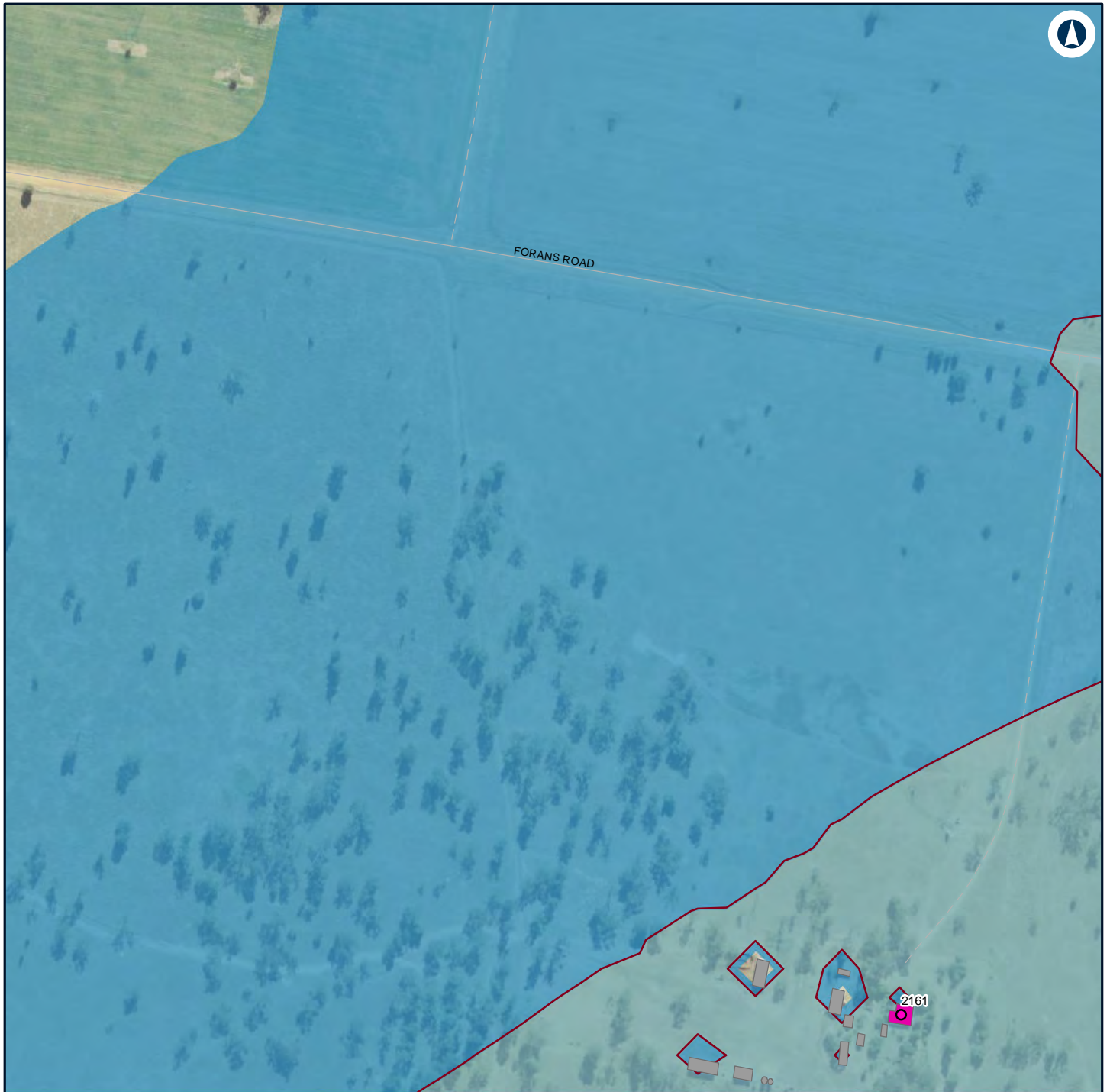
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LEGEND

Structure type

Residential

Other

Residential

Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

30 - 35

35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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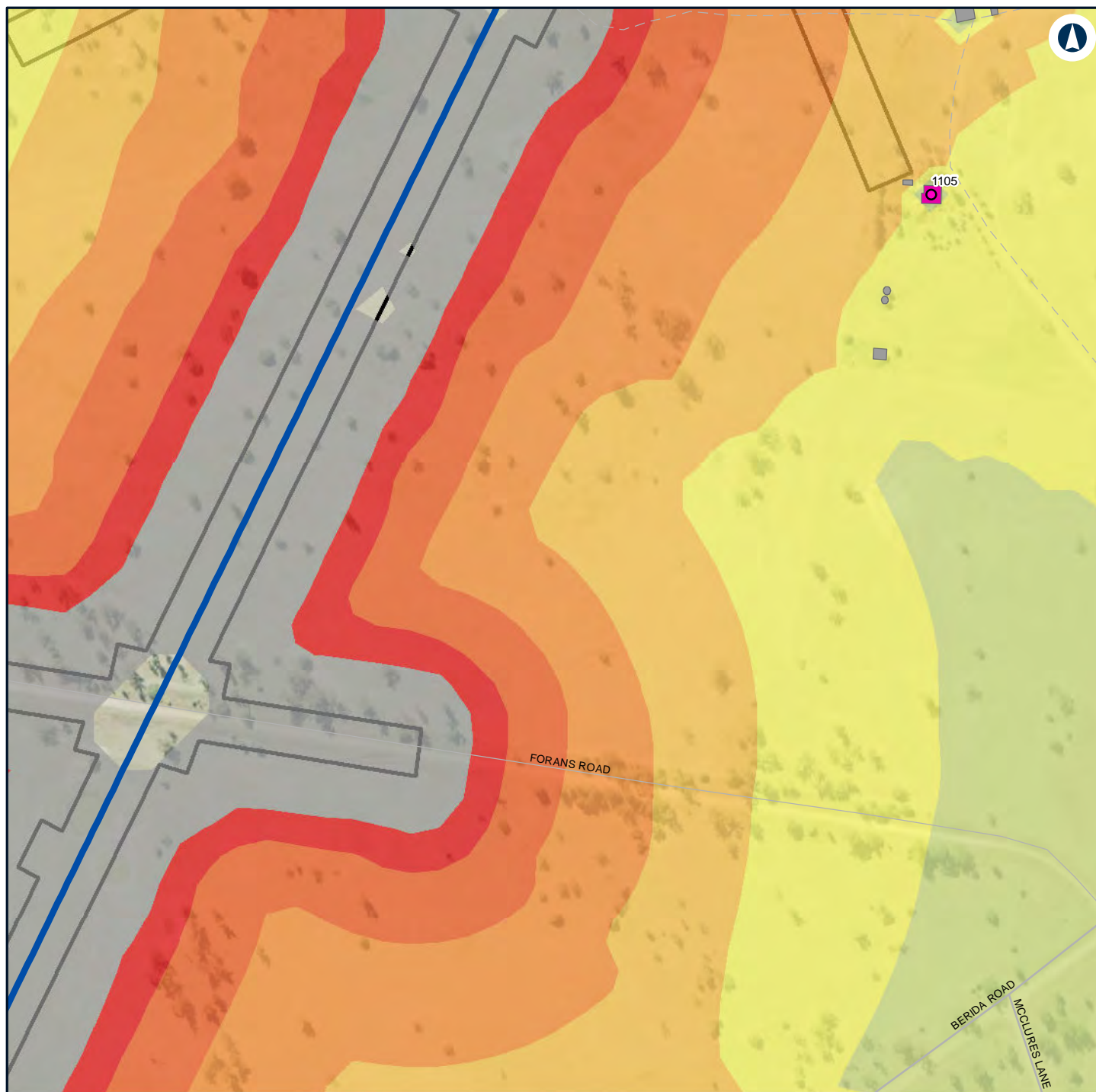
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LEGEND

Construction footprint

Structure type

Residential

Other

Residential

Alignment

Noise level (dBA L_{Aeq} 15 minute)

30 - 35

40 - 45

45 - 50

50 - 55

55 - 60

60 - 65

65 - 70

70 - 75

> 75



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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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 RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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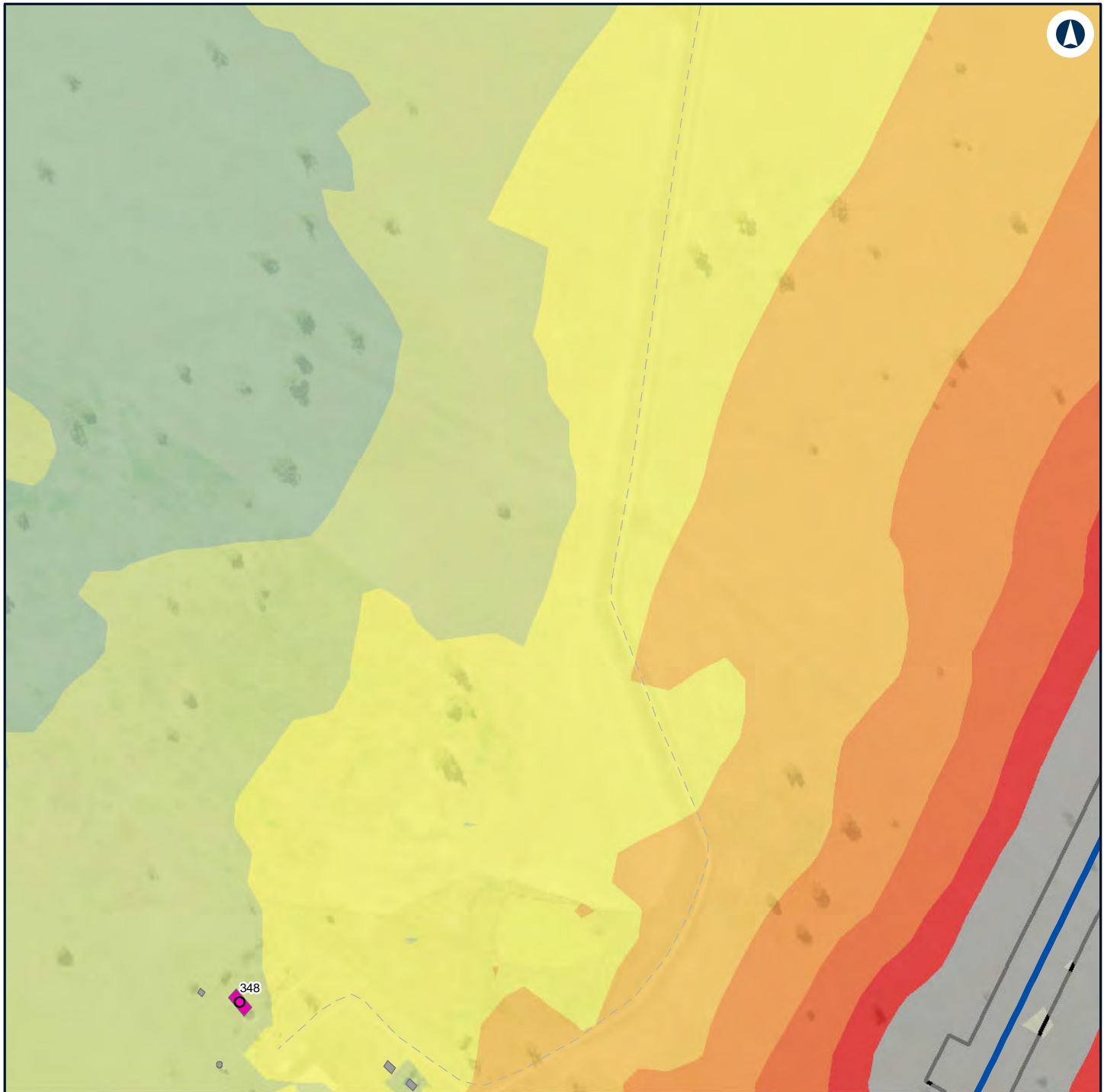
Author: GHD

Scale: 1:5,000

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

INLAND RAIL **ARTC**

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LEGEND

	Construction footprint	Noise level (dBA L_{Aeq} 15 minute)		70 - 75
	Residential			40 - 45
	Other			> 75
	Residential			45 - 50
	Alignment			50 - 55
				55 - 60
				60 - 65
				65 - 70



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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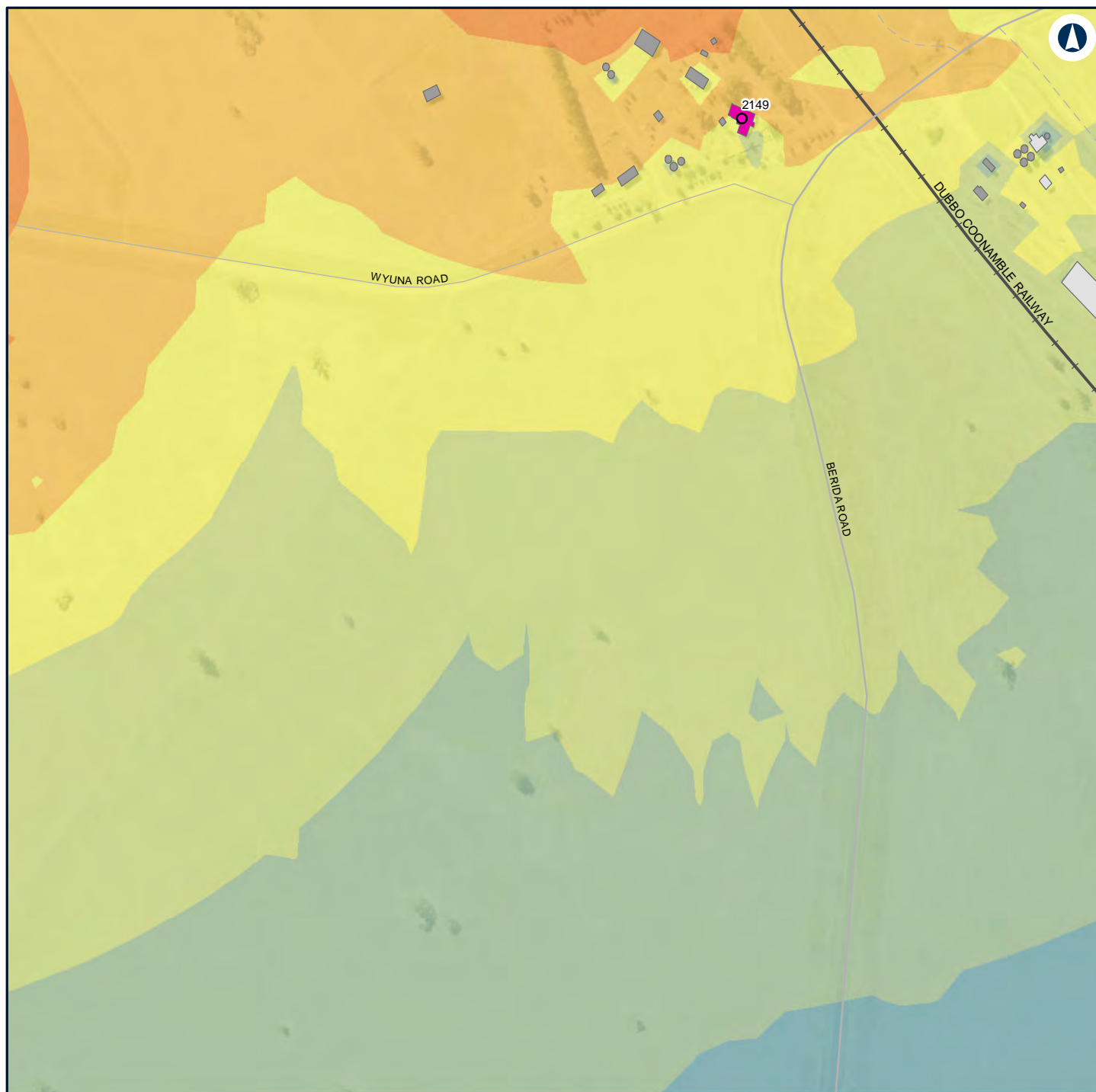
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LEGEND

Structure type

	Residential		40 - 45
	Commercial/Industrial		45 - 50
	Other		50 - 55
	Residential		55 - 60
			60 - 65

Noise level (dBA L_{Aeq} 15 minute)

	35 - 40
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NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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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

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40

■ 40 - 45



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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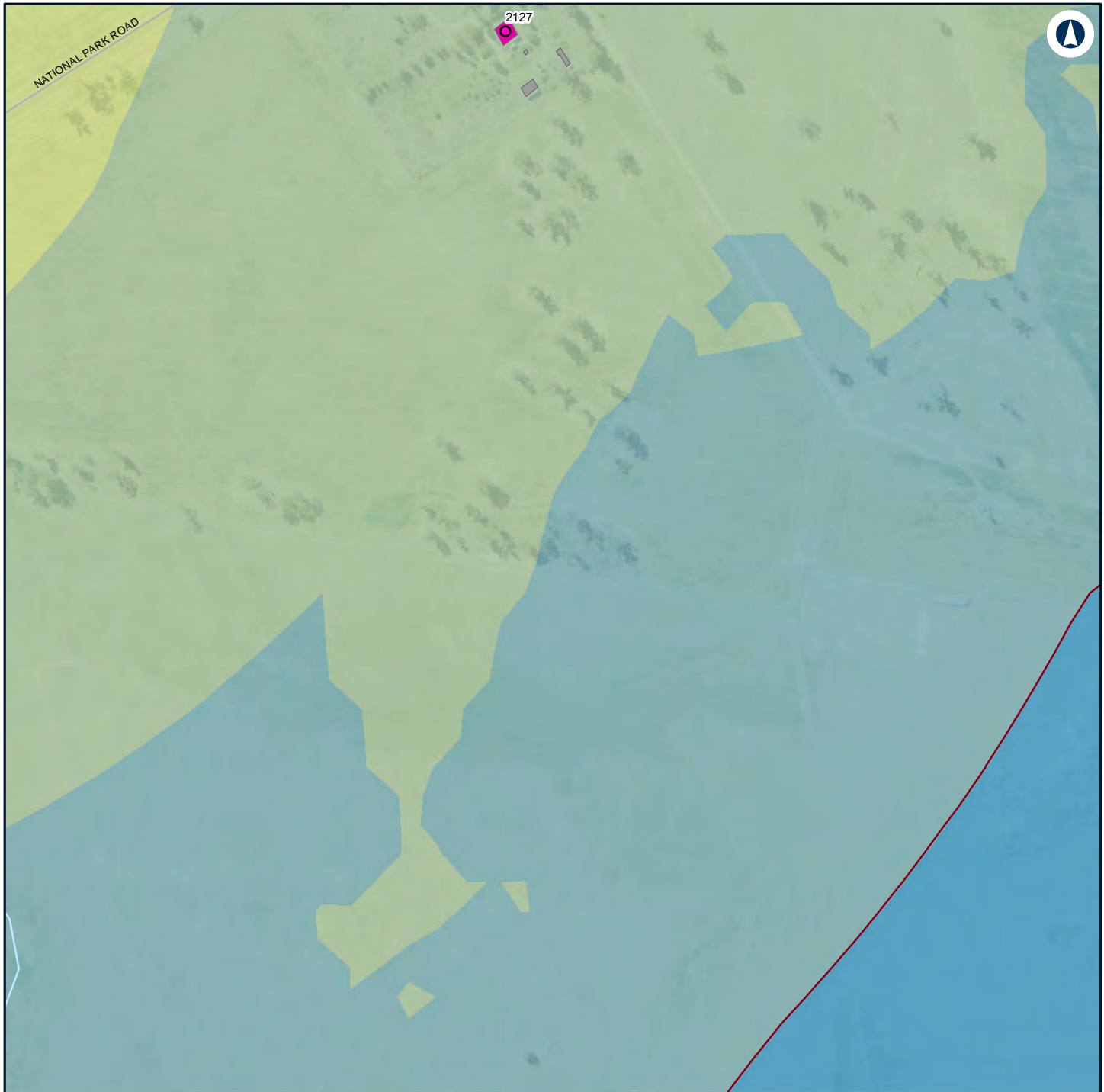
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LEGEND

Structure type

● Residential

■ Other

■ Residential

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40

■ 40 - 45

■ 45 - 50



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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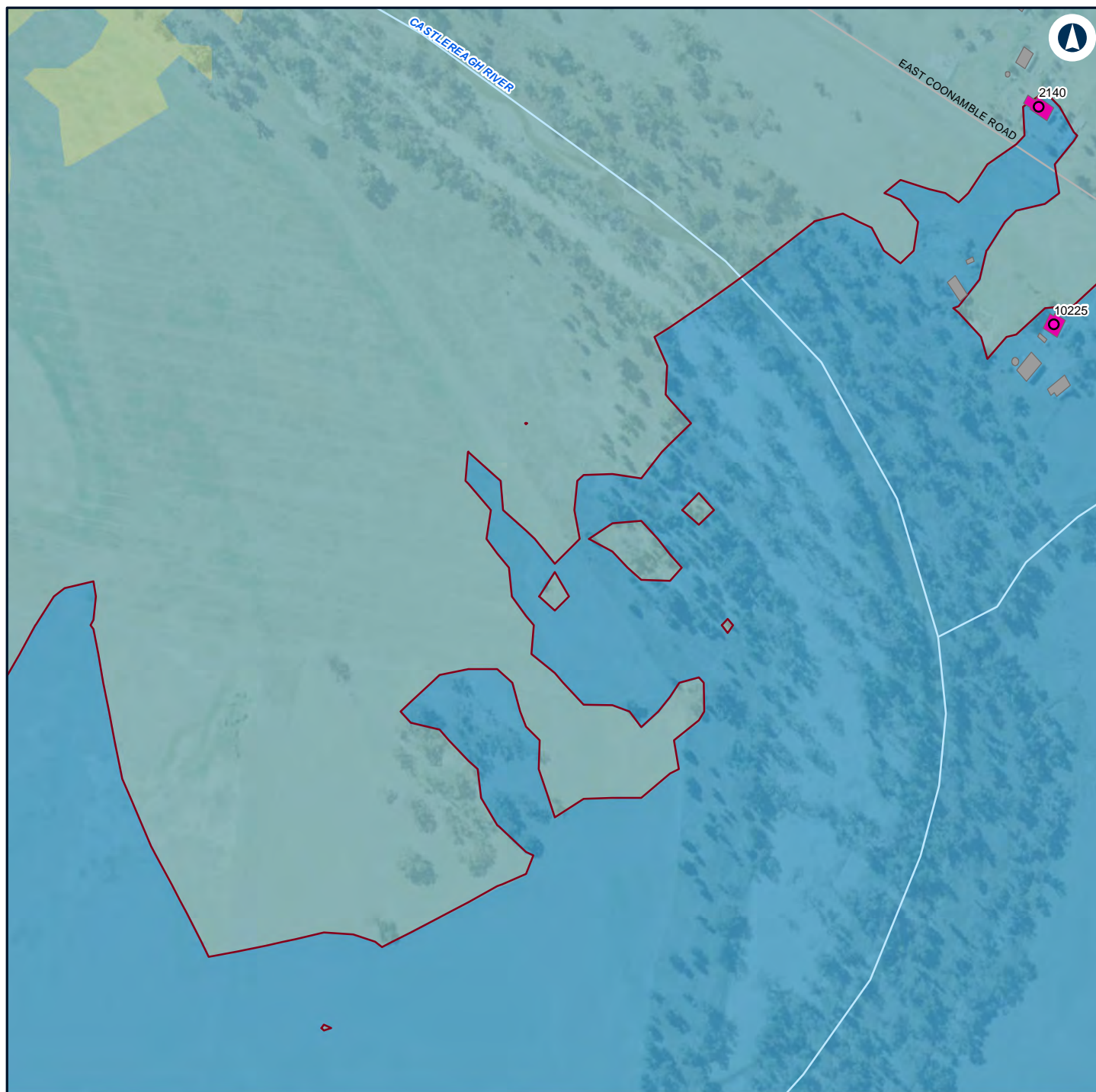
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

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LEGEND

Structure type

● Residential

■ Other

■ Residential

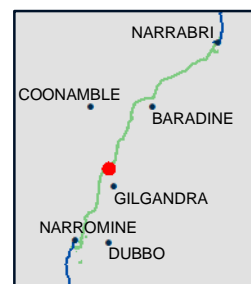
— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40

■ 40 - 45



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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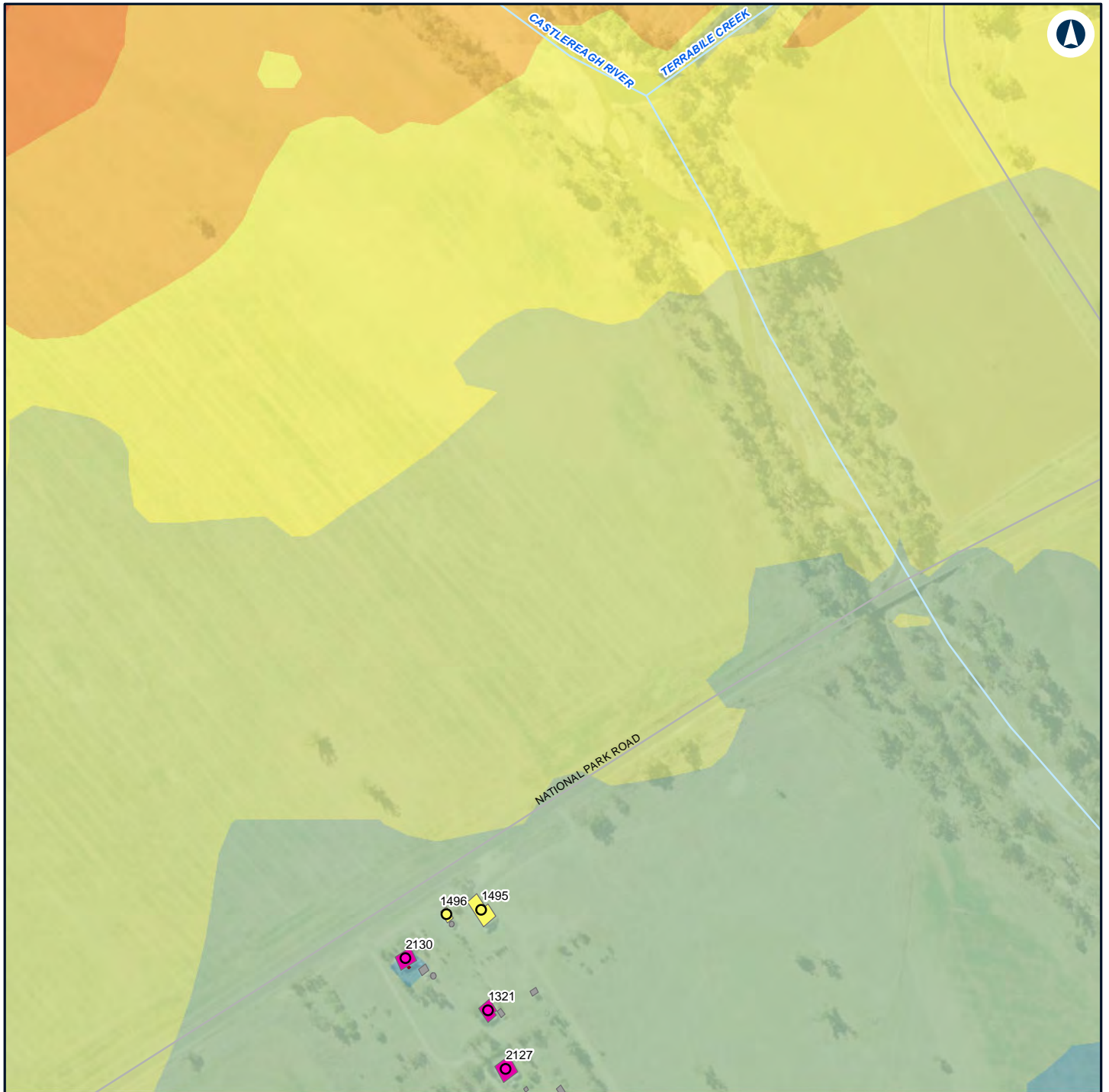
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LEGEND

Structure type

- Community
- Residential
- Community
- Other
- Residential
- Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

- 35 - 40
- 40 - 45
- 45 - 50
- 50 - 55
- 55 - 60
- 60 - 65
- 65 - 70



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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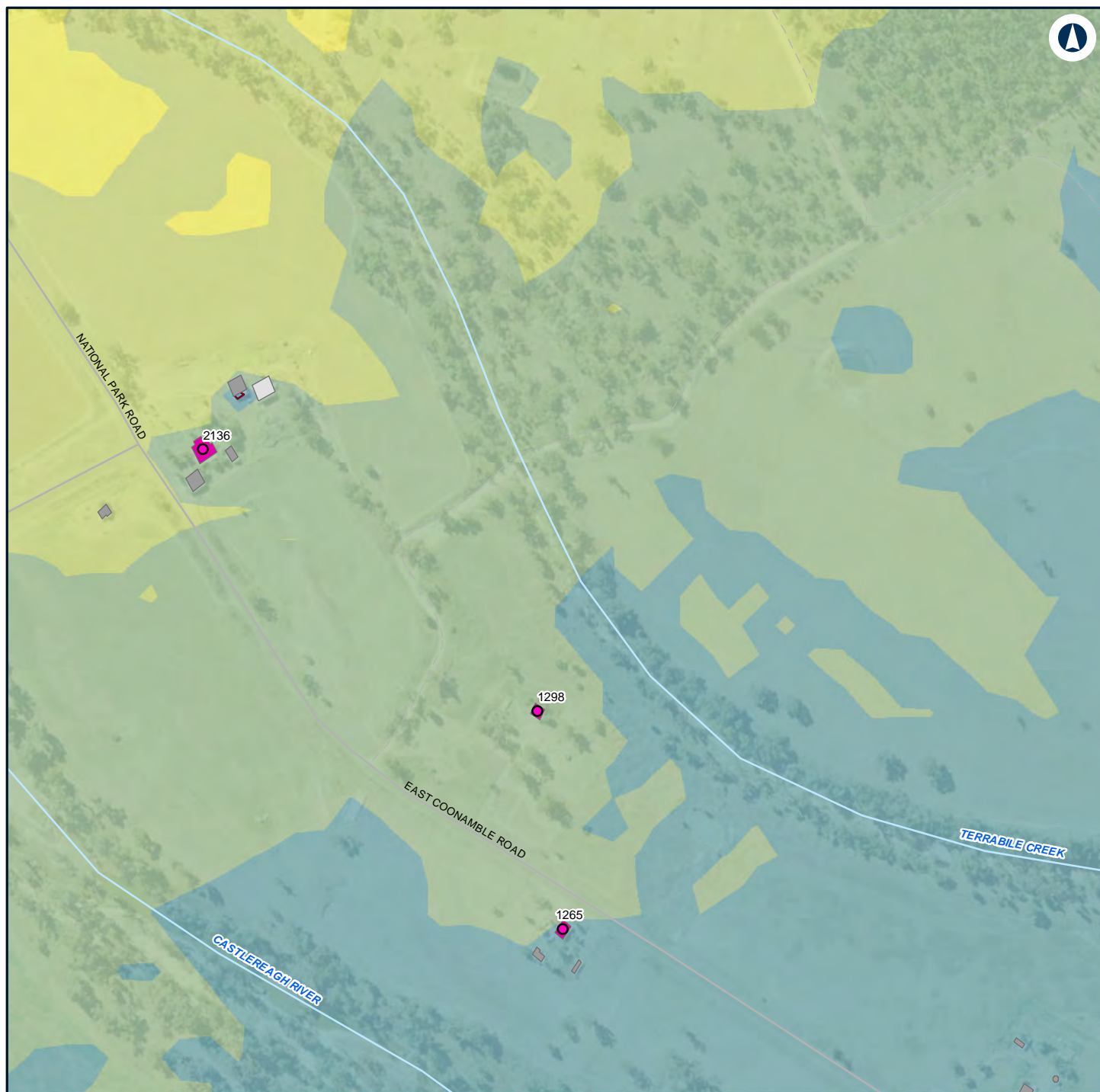
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Scale: 1:5,000

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LEGEND

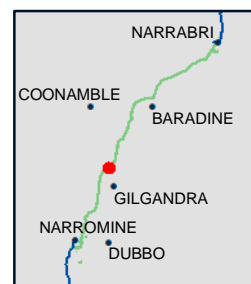
Structure type

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

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

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



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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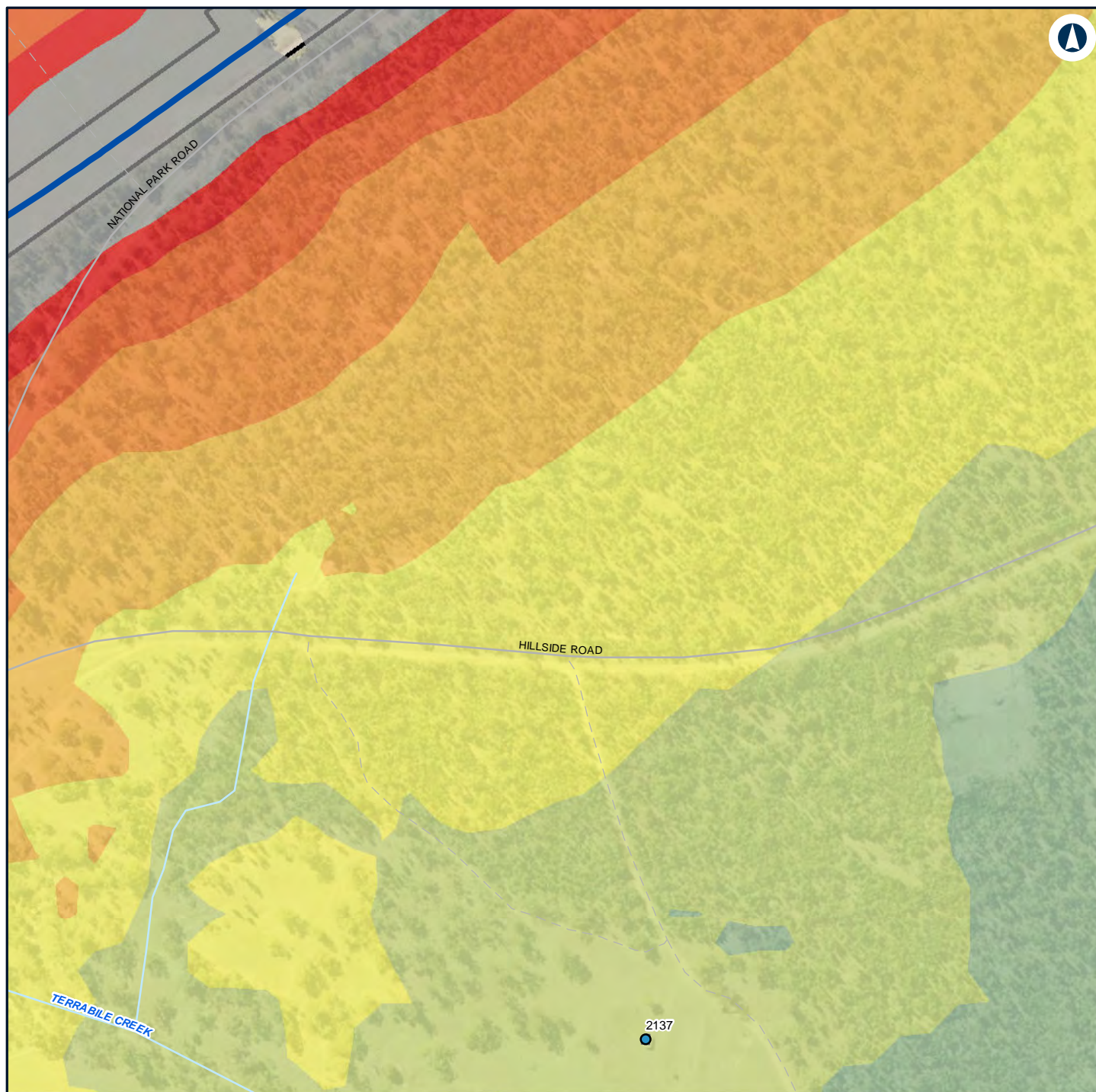
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

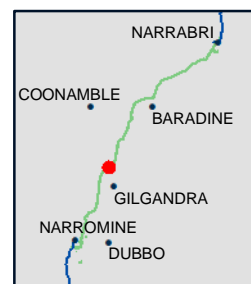
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LEGEND

Construction footprint	45 - 50
Structure type	50 - 55
Active recreation	55 - 60
Active recreation	60 - 65
Alignment	65 - 70
Noise level (dBA L_{Aeq} 15 minute)	70 - 75
40 - 45	> 75



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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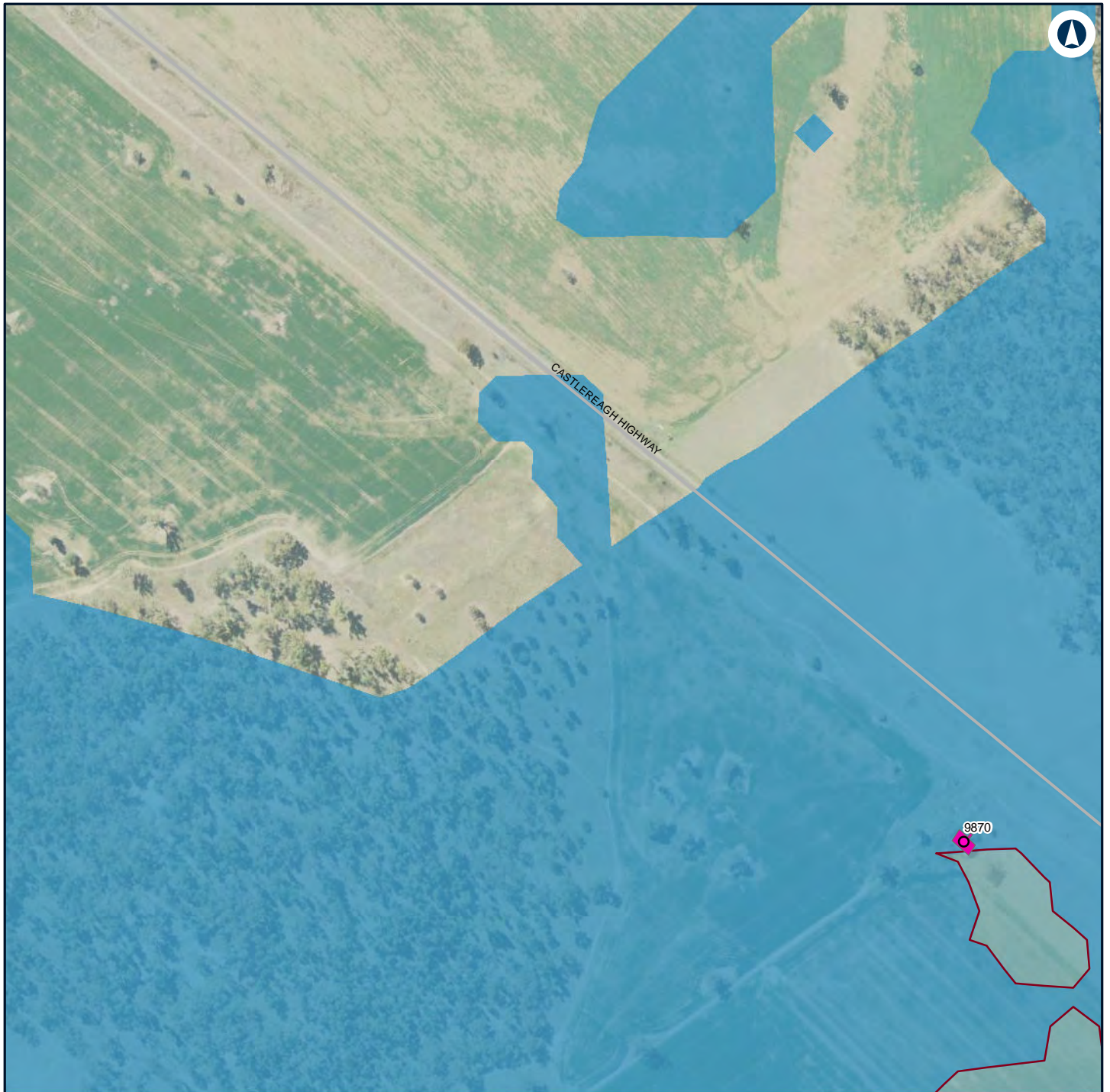
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LEGEND

Structure type

- Residential
- Residential
- Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

- 30 - 35
- 35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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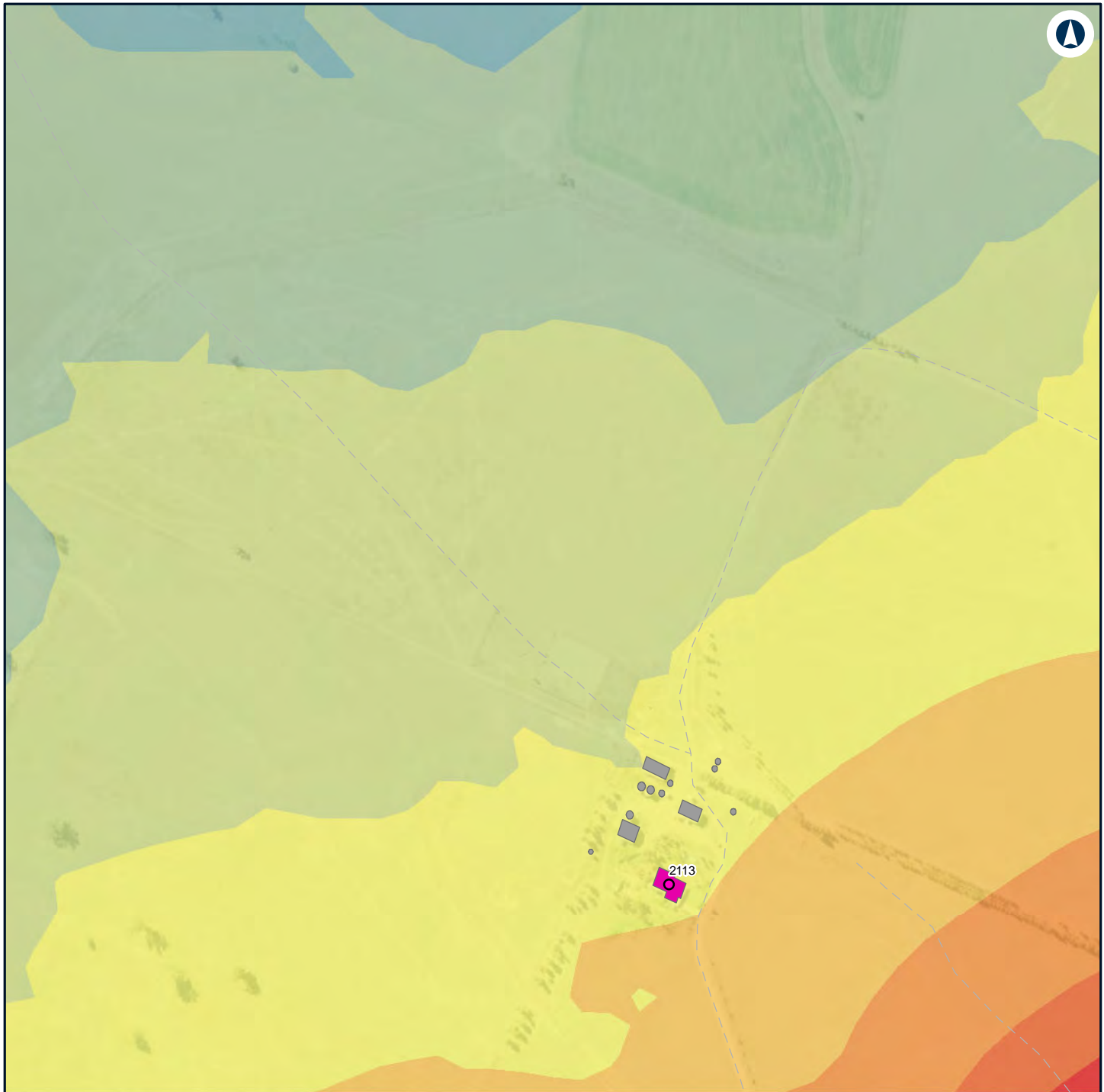
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LEGEND

Structure type

- Residential
- Other
- Residential

Noise level (dBA L_{Aeq} 15 minute)

- | | |
|---|--|
| ■ 35 - 40 | ■ 70 - 75 |
| ■ 40 - 45 | |

45 - 50

50 - 55

55 - 60

60 - 65

65 - 70



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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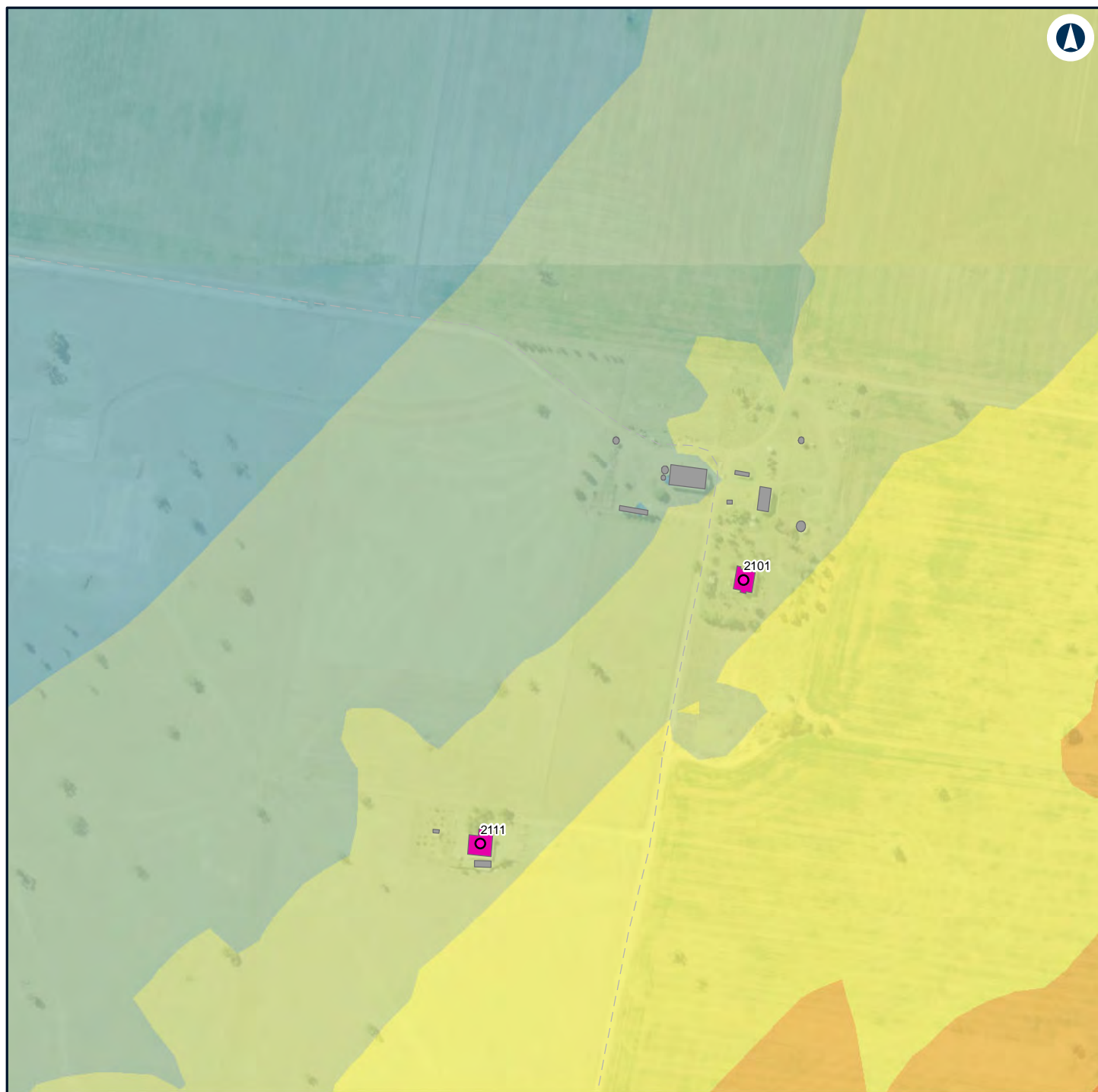
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LEGEND

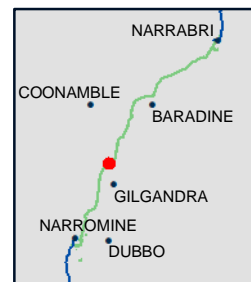
Structure type

- Residential
- Other
- Residential

- 45 - 50
- 50 - 55
- 55 - 60
- 60 - 65

Noise level (dBA L_{Aeq} 15 minute)

- 35 - 40
- 40 - 45



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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LEGEND

Structure type

- Residential
- Residential

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

- 30 - 35
- 35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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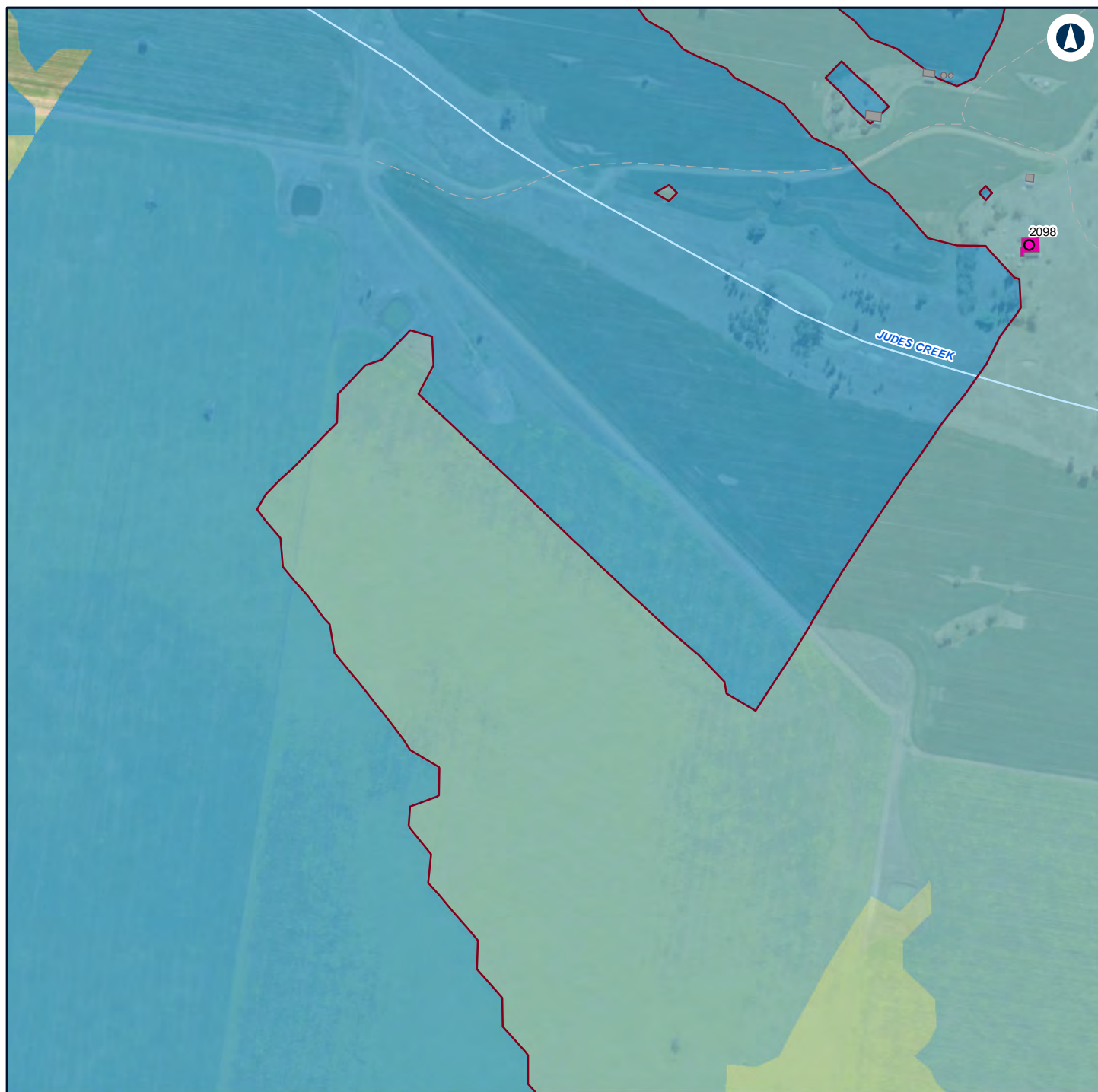
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LEGEND

Structure type

● Residential

■ Other

■ Residential

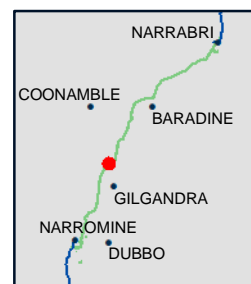
— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40

■ 40 - 45



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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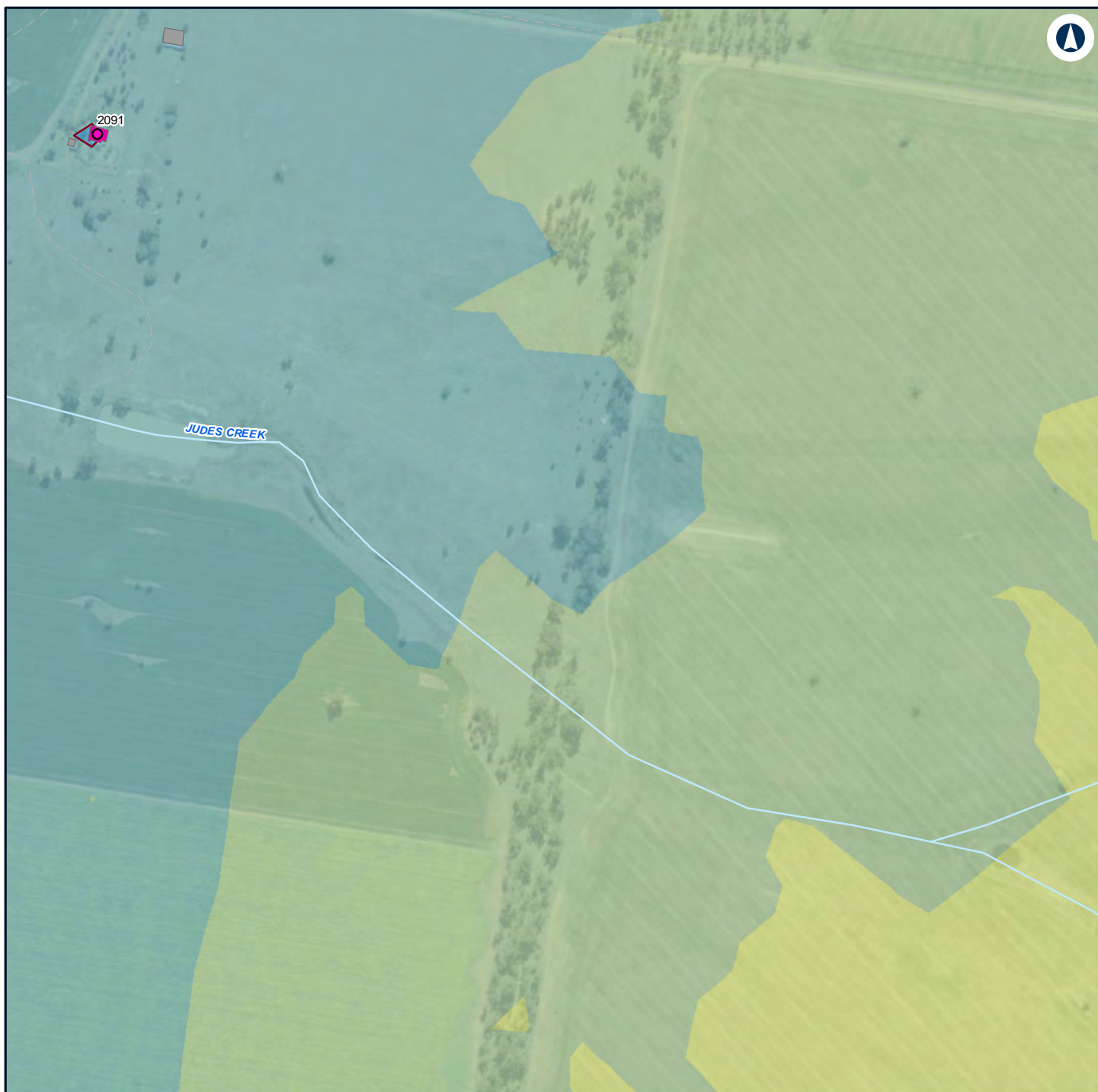
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LEGEND

Structure type

● Residential

■ Other

■ Residential

— Night-time noise management level

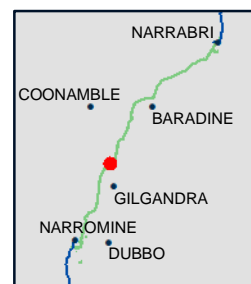
Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40

■ 40 - 45

■ 45 - 50



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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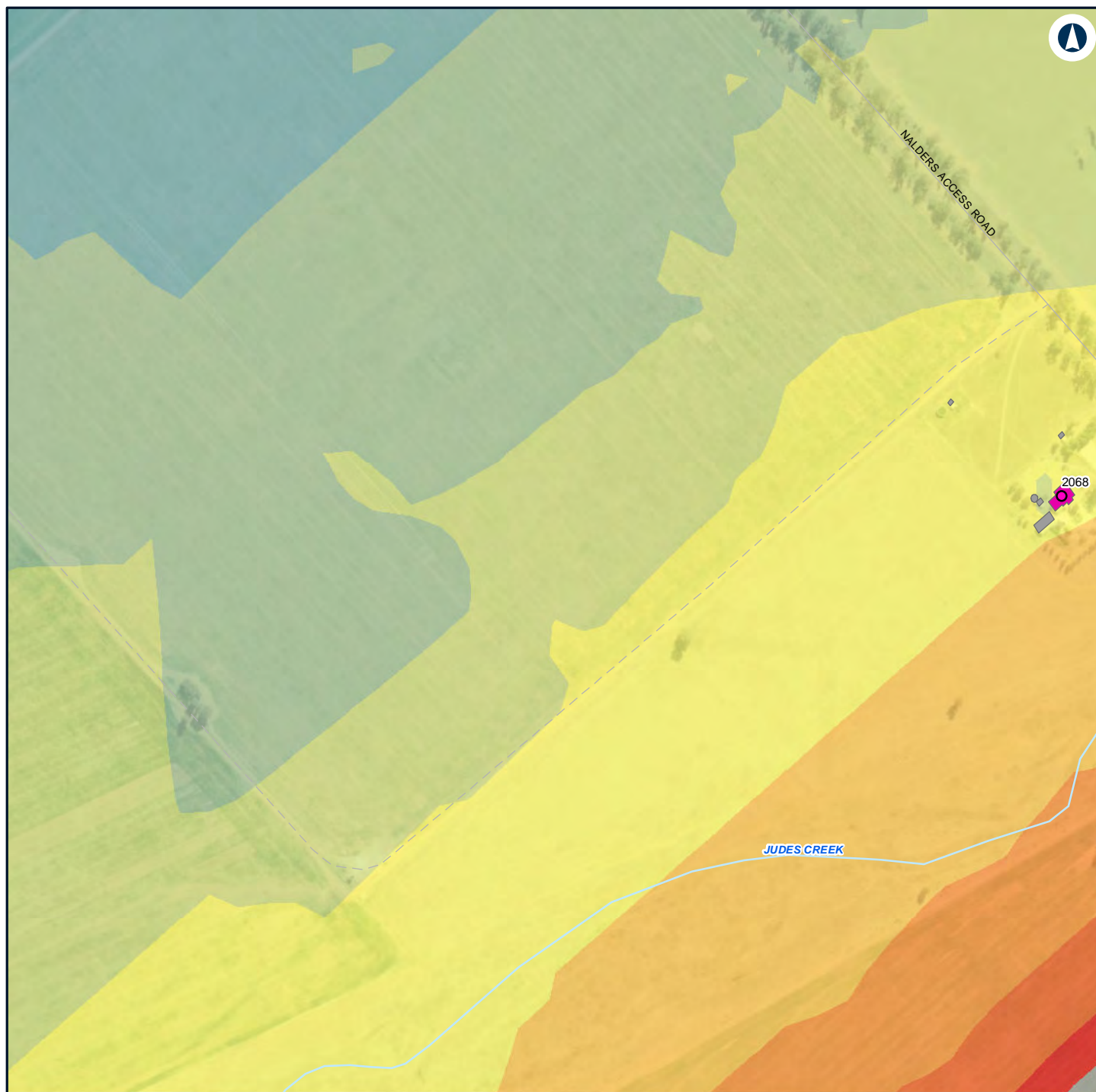
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LEGEND

Structure type

Residential

Other

Residential

Noise level (dBA L_{Aeq} 15 minute)

35 - 40

40 - 45

45 - 50

50 - 55

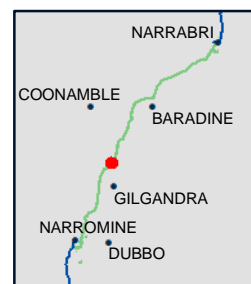
55 - 60

60 - 65

65 - 70

70 - 75

> 75



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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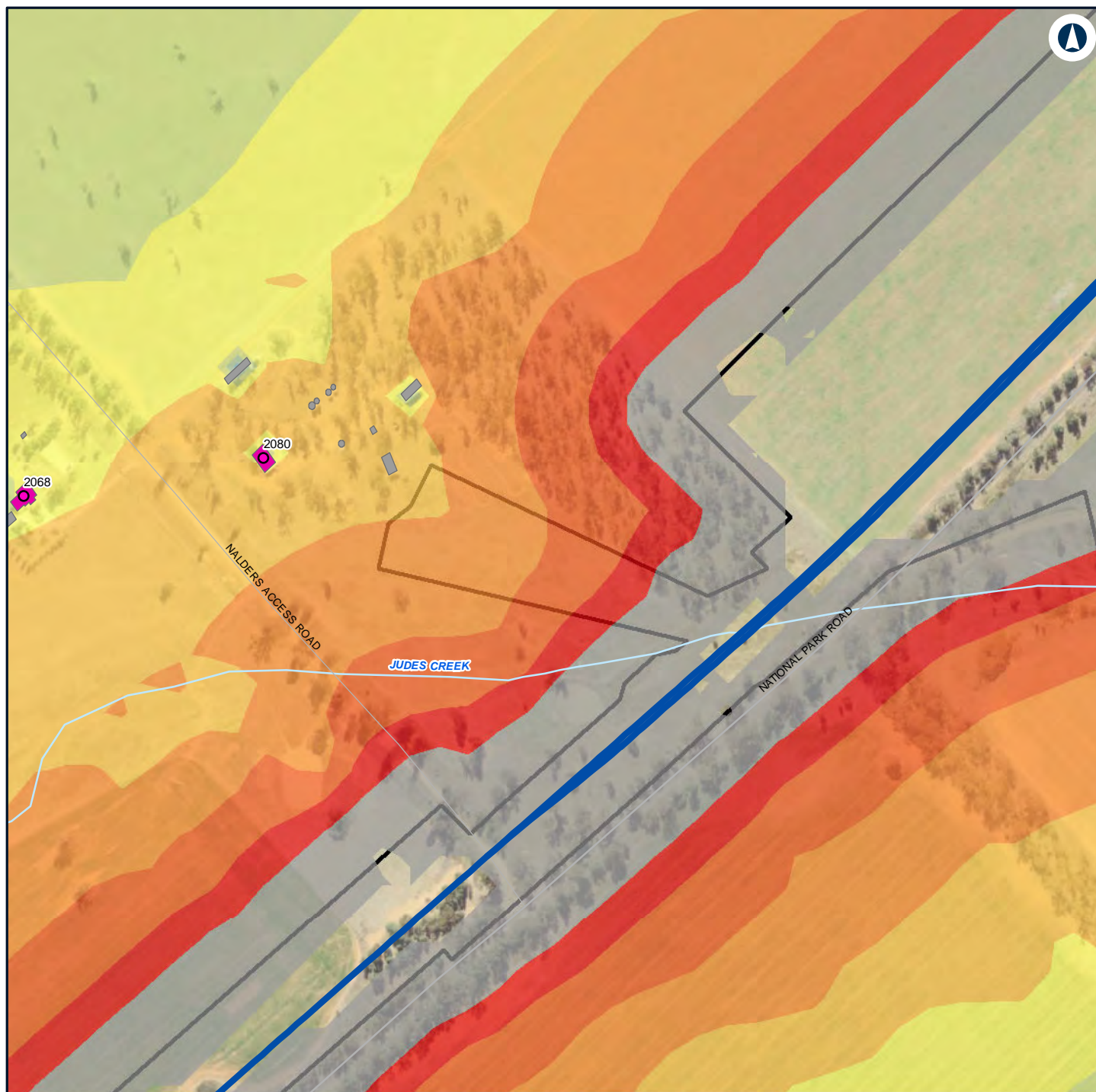
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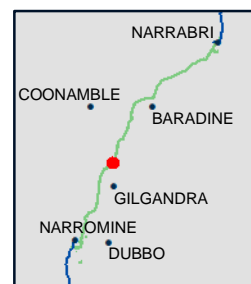
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LEGEND

	Construction footprint	Noise level (dBA L_{Aeq} 15 minute)	65 - 70
	Structure type	35 - 40	70 - 75
	Residential	40 - 45	> 75
	Other	45 - 50	
	Residential	50 - 55	
	Alignment	55 - 60	
		60 - 65	



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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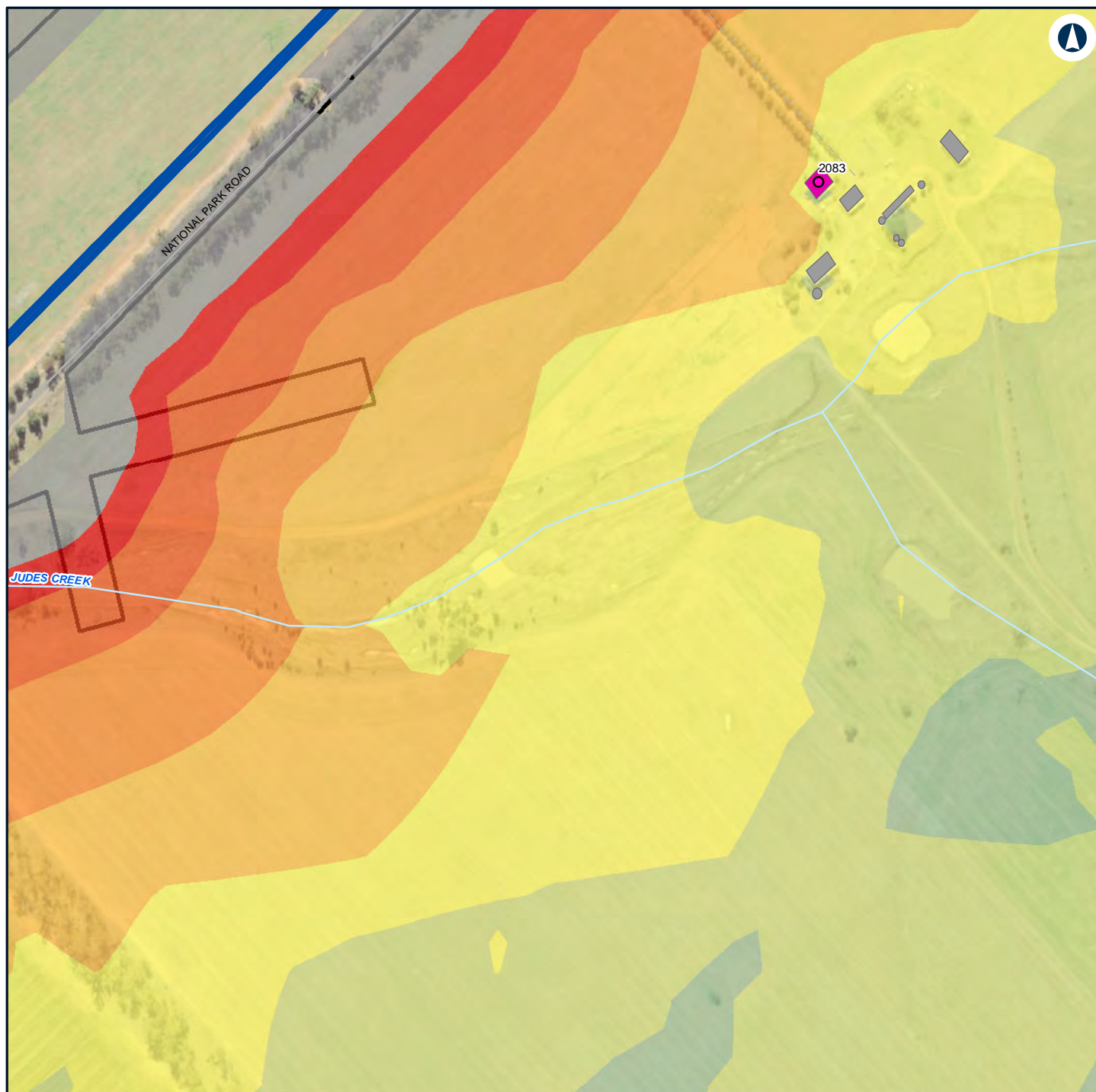
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LEGEND

Construction footprint

Noise level (dBA L_{Aeq} 15 minute)

70 - 75

> 75

Structure type

Residential

Other

Residential

Alignment

40 - 45

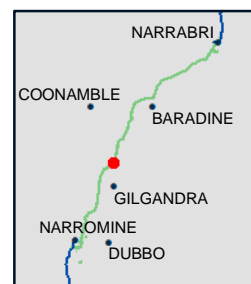
45 - 50

50 - 55

55 - 60

60 - 65

65 - 70



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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LEGEND

Structure type

Residential

Other

Residential

Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

30 - 35

35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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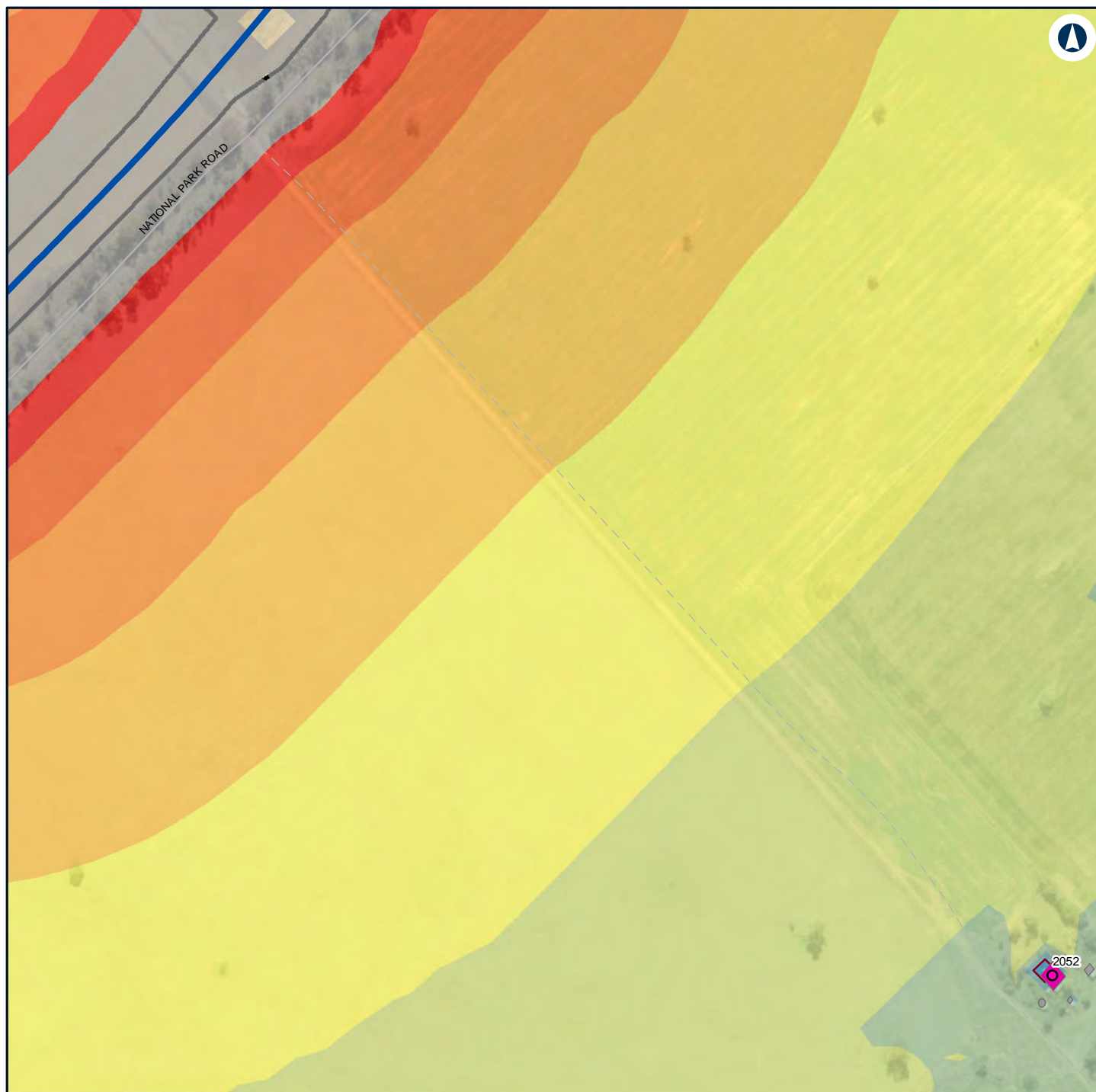
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LEGEND

Construction footprint

Structure type

Residential

Other

Residential

Alignment

Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

30 - 35

35 - 40

40 - 45

45 - 50

50 - 55

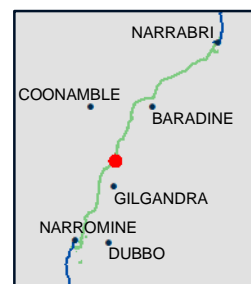
55 - 60

60 - 65

65 - 70

70 - 75

> 75



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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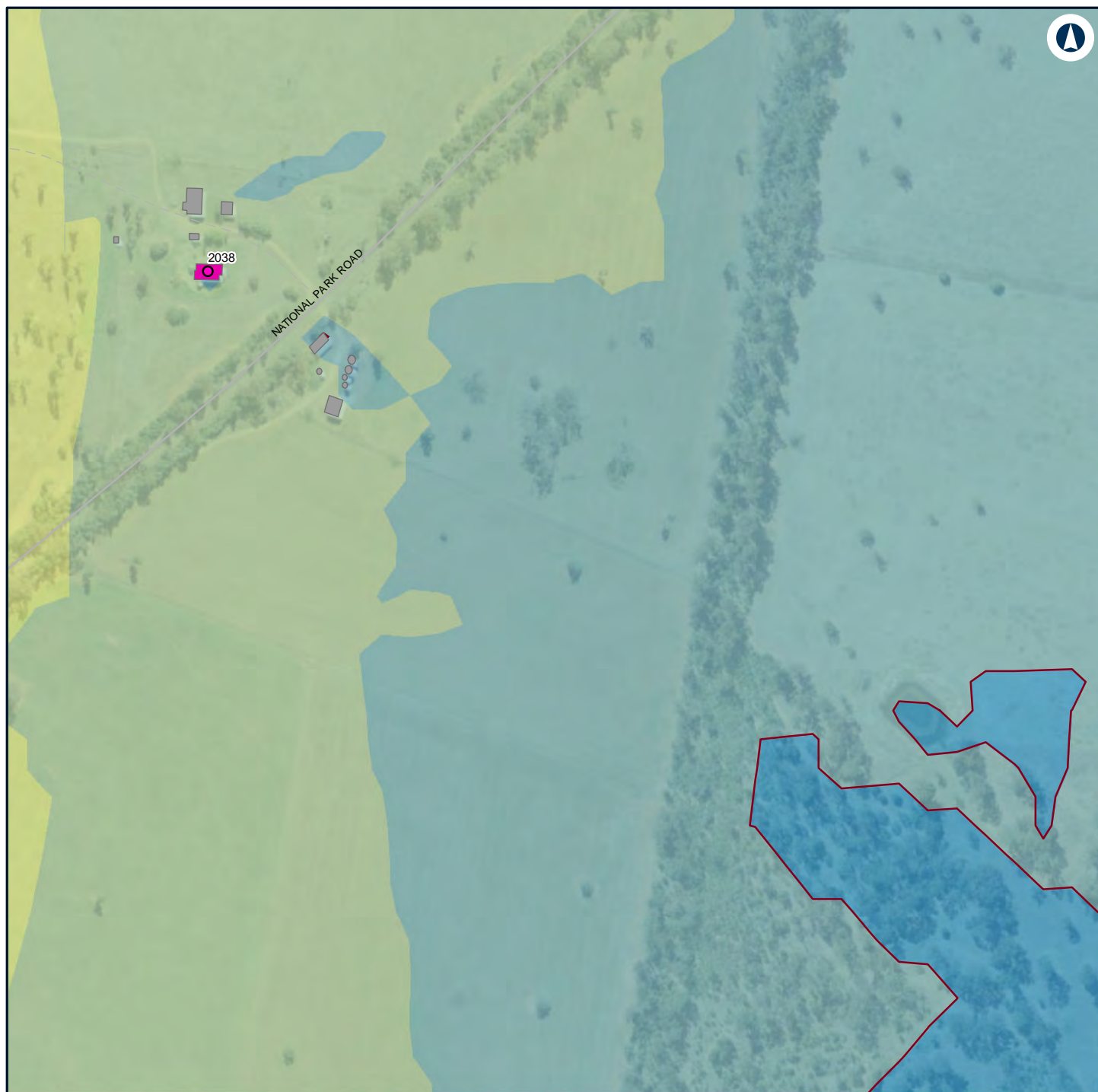
Author: GHD

Scale: 1:5,000

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

INLAND RAIL **ARTC**

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LEGEND

Structure type

● Residential

■ Other

■ Residential

— Night-time noise management level

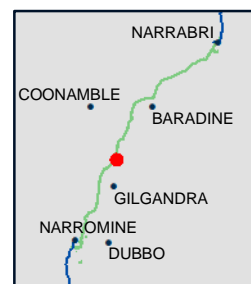
Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40

■ 40 - 45

■ 45 - 50



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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LEGEND

Structure type

Residential

Other

Residential

Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

30 - 35

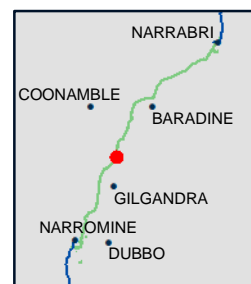
35 - 40

40 - 45

45 - 50

50 - 55

55 - 60



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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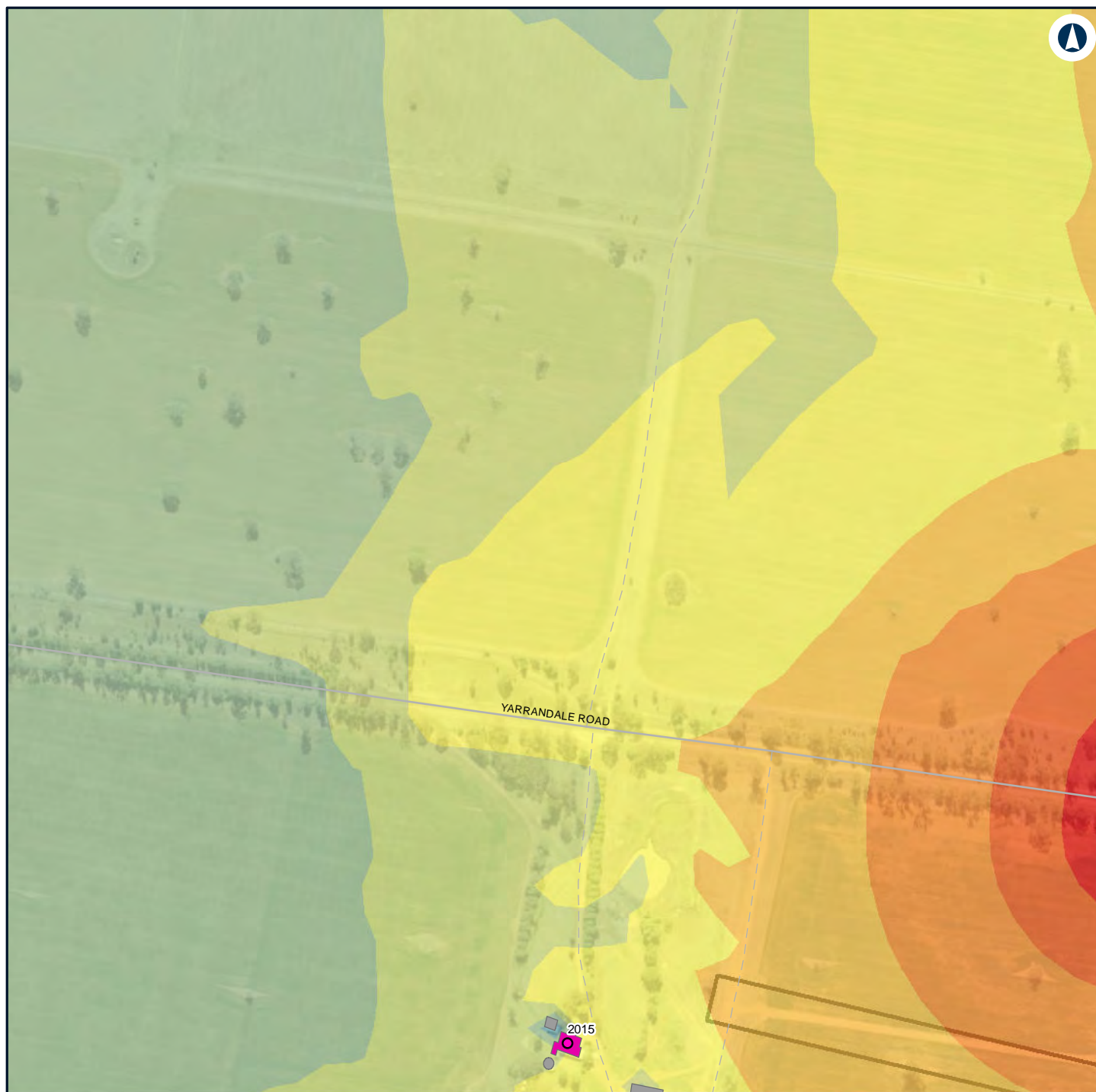
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

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LEGEND

Construction footprint

Structure type

Residential

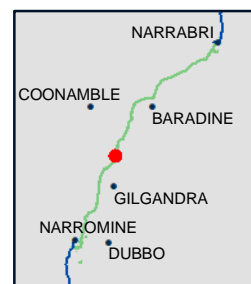
Other

Residential

Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

35 - 40	65 - 70
40 - 45	70 - 75
45 - 50	> 75
50 - 55	
55 - 60	
60 - 65	



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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LEGEND

Structure type

Residential

Other

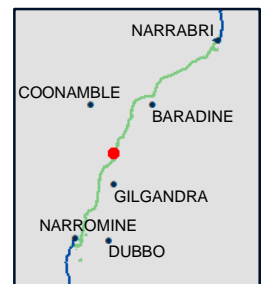
Residential

Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

30 - 35

35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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LEGEND

Structure type

● Residential

■ Other

■ Residential

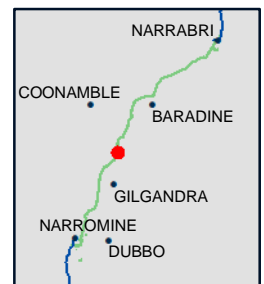
— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40

■ 40 - 45



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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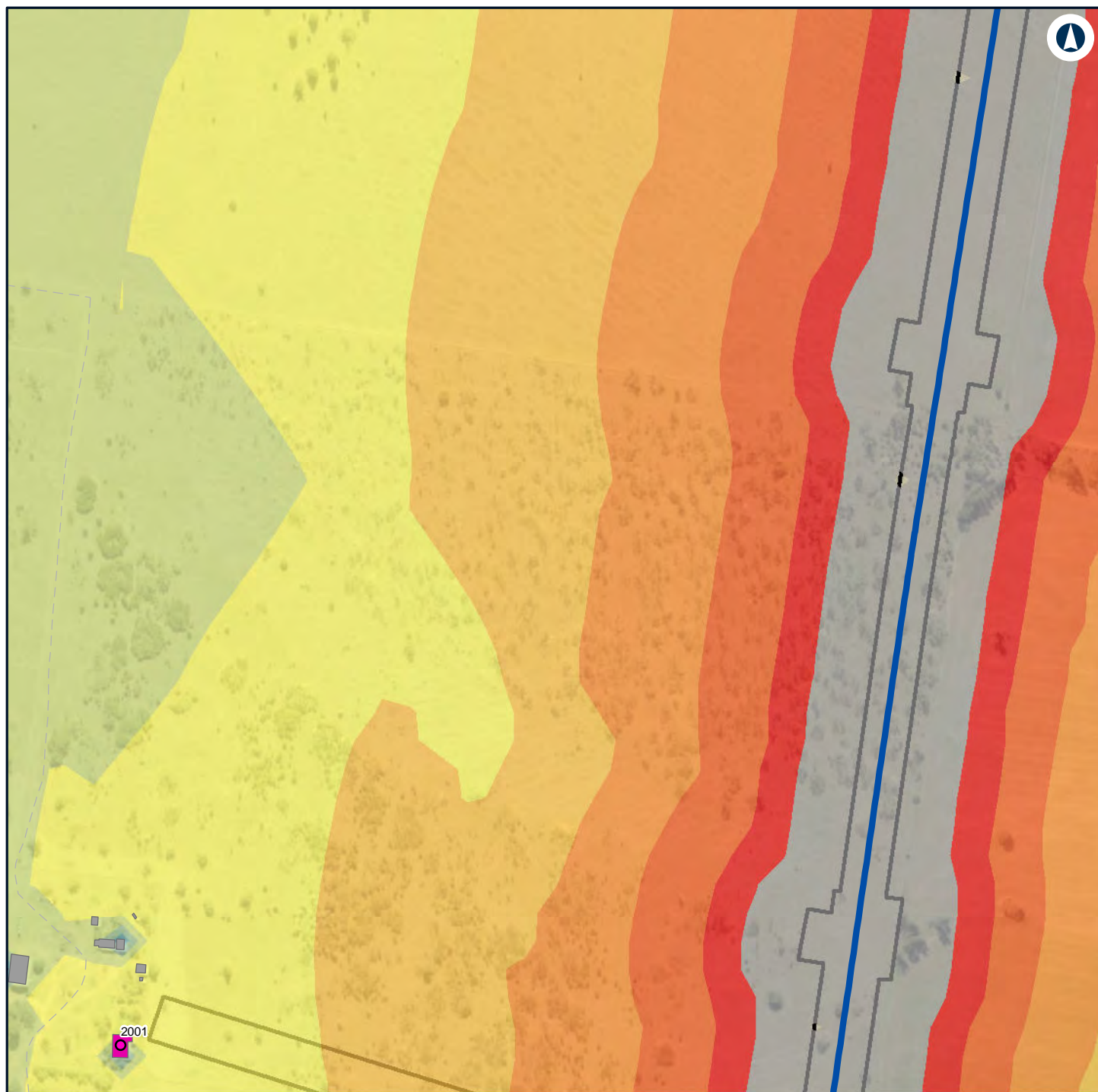
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Scale: 1:5,000

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

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LEGEND

Construction footprint

Structure type

Residential

Other

Residential

Alignment

Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

35 - 40

40 - 45

45 - 50

50 - 55

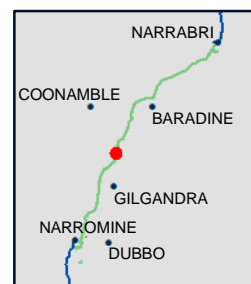
55 - 60

60 - 65

65 - 70

70 - 75

> 75



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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LEGEND

Structure type

● Residential

■ Other

■ Residential

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40

■ 40 - 45

■ 45 - 50



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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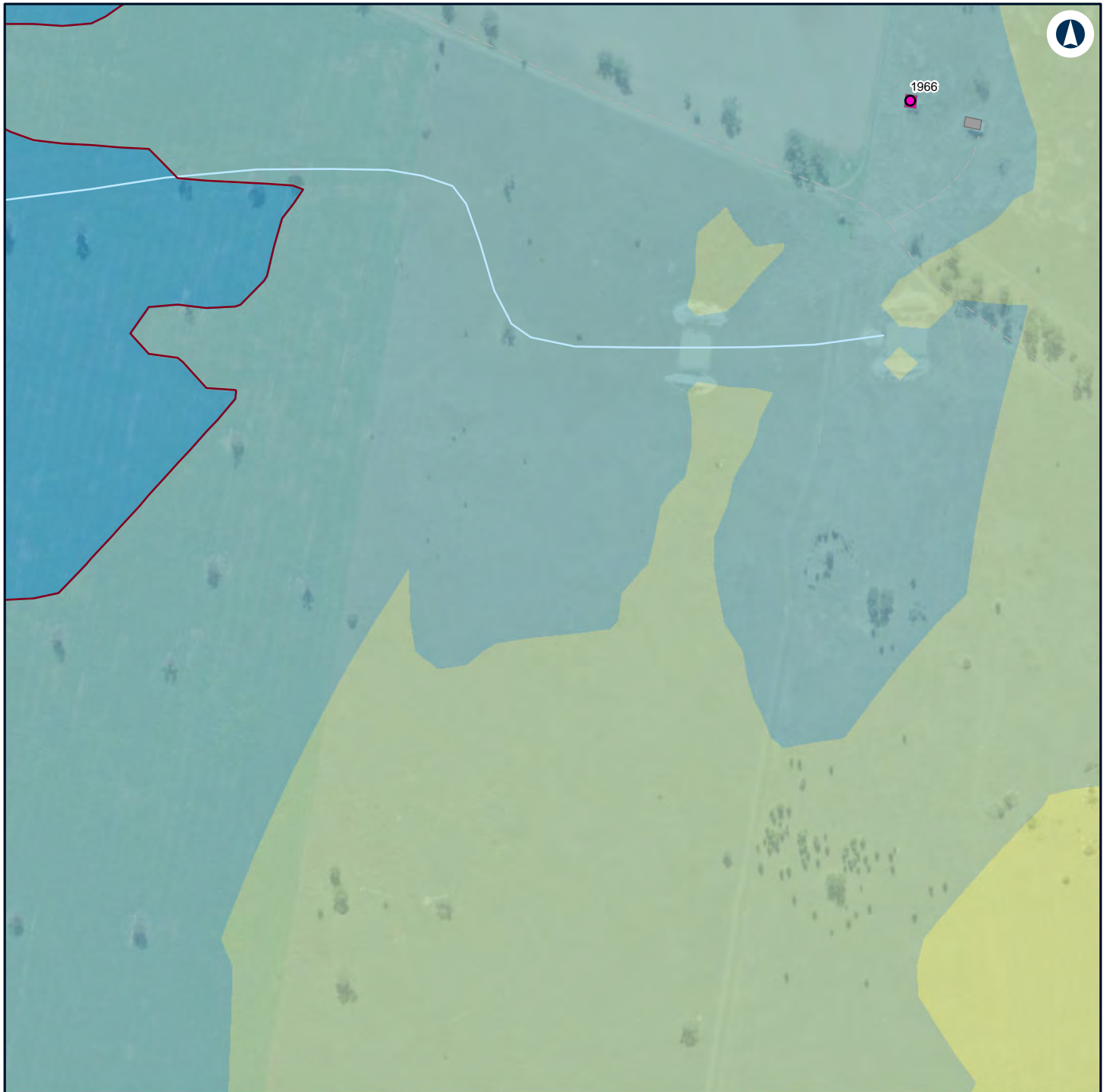
Author: GHD

Scale: 1:5,000

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

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LEGEND

Structure type

● Residential

■ Other

■ Residential

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40

■ 40 - 45

■ 45 - 50



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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LEGEND

Structure type

● Residential

■ Other

■ Residential

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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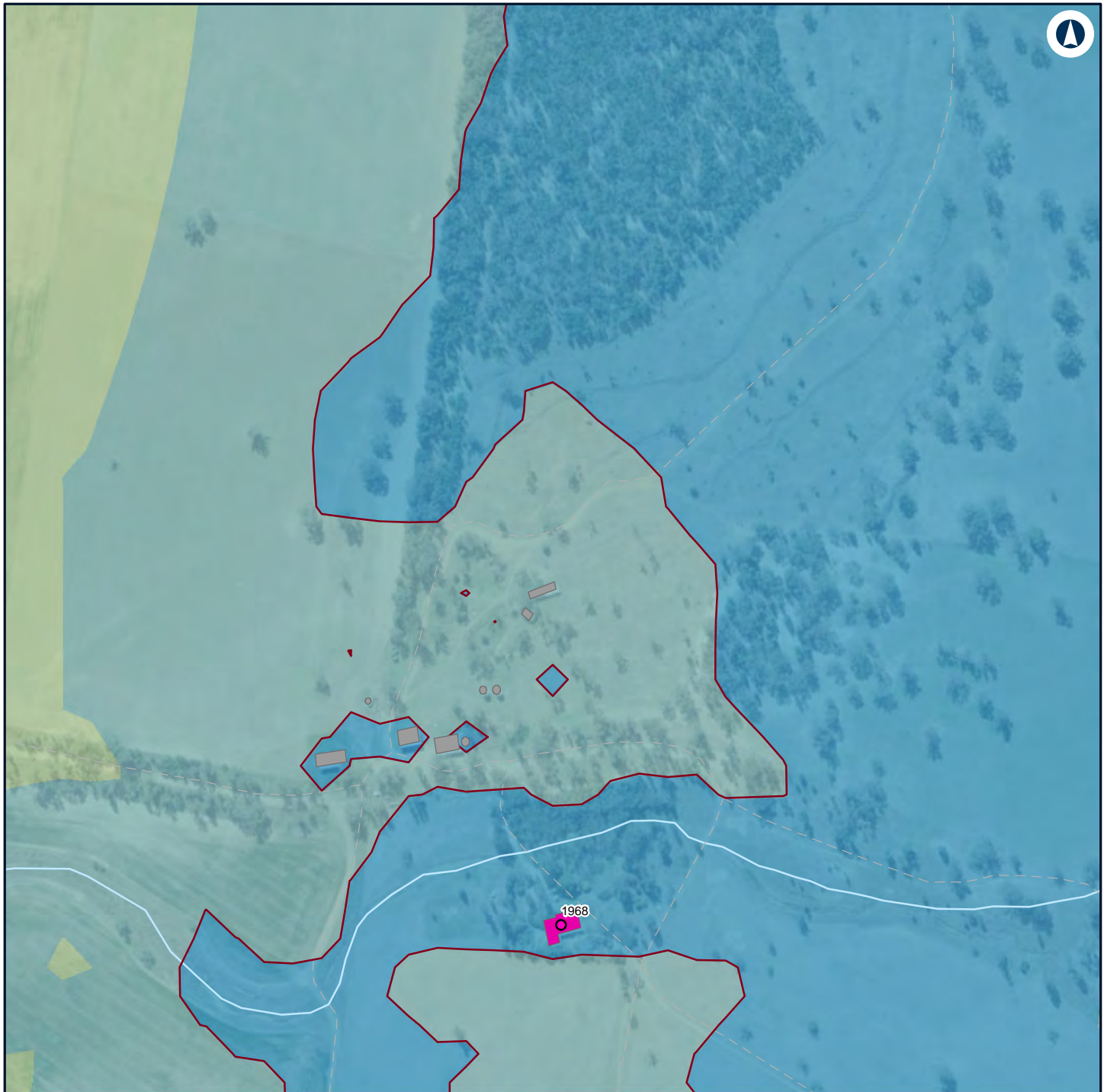
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Scale: 1:5,000

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

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LEGEND

Structure type

● Residential

■ Other

■ Residential

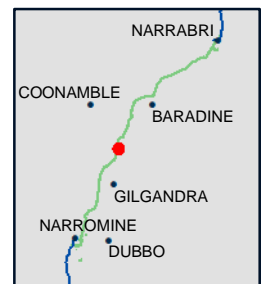
— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40

■ 40 - 45



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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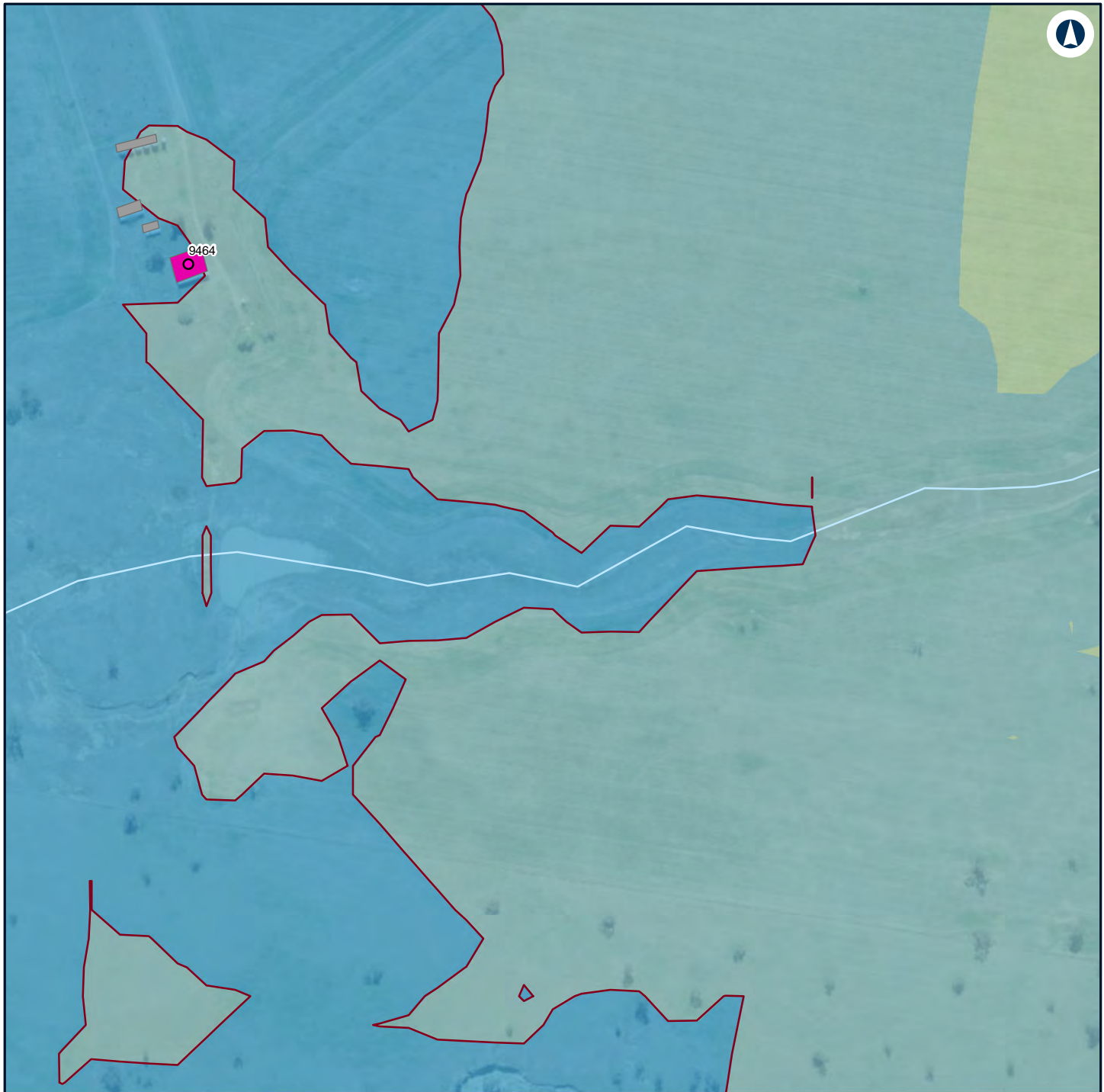
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

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LEGEND

Structure type

● Residential

■ Other

■ Residential

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40

■ 40 - 45



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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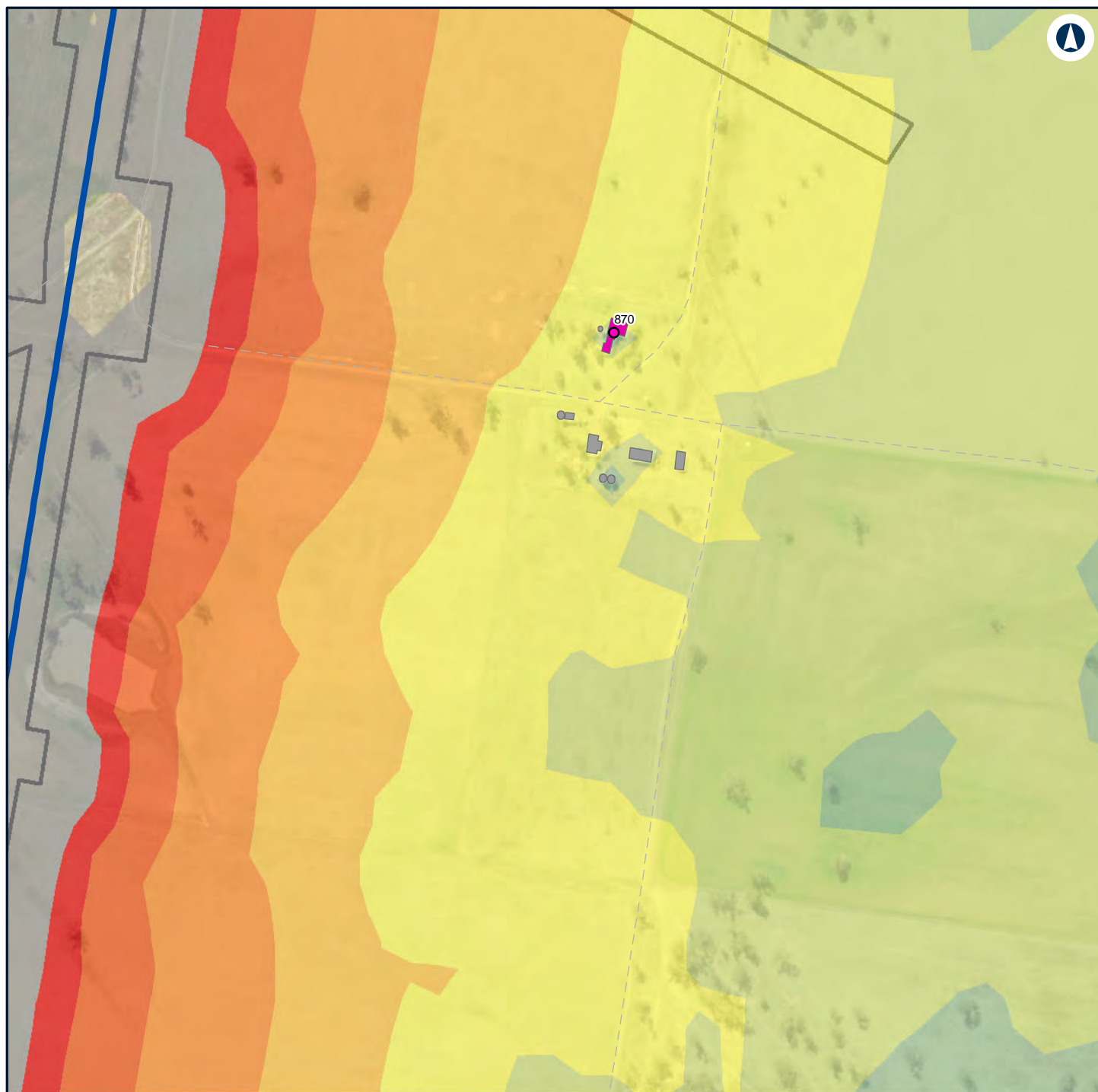
Author: GHD

Scale: 1:5,000

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

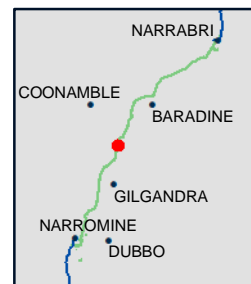
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LEGEND

	Construction footprint	Noise level (dBA L_{Aeq} 15 minute)		65 - 70
Structure type			70 - 75	
	Residential		35 - 40	
	Other		40 - 45	
	Residential		45 - 50	
	Alignment		50 - 55	
			55 - 60	
			60 - 65	
			> 75	



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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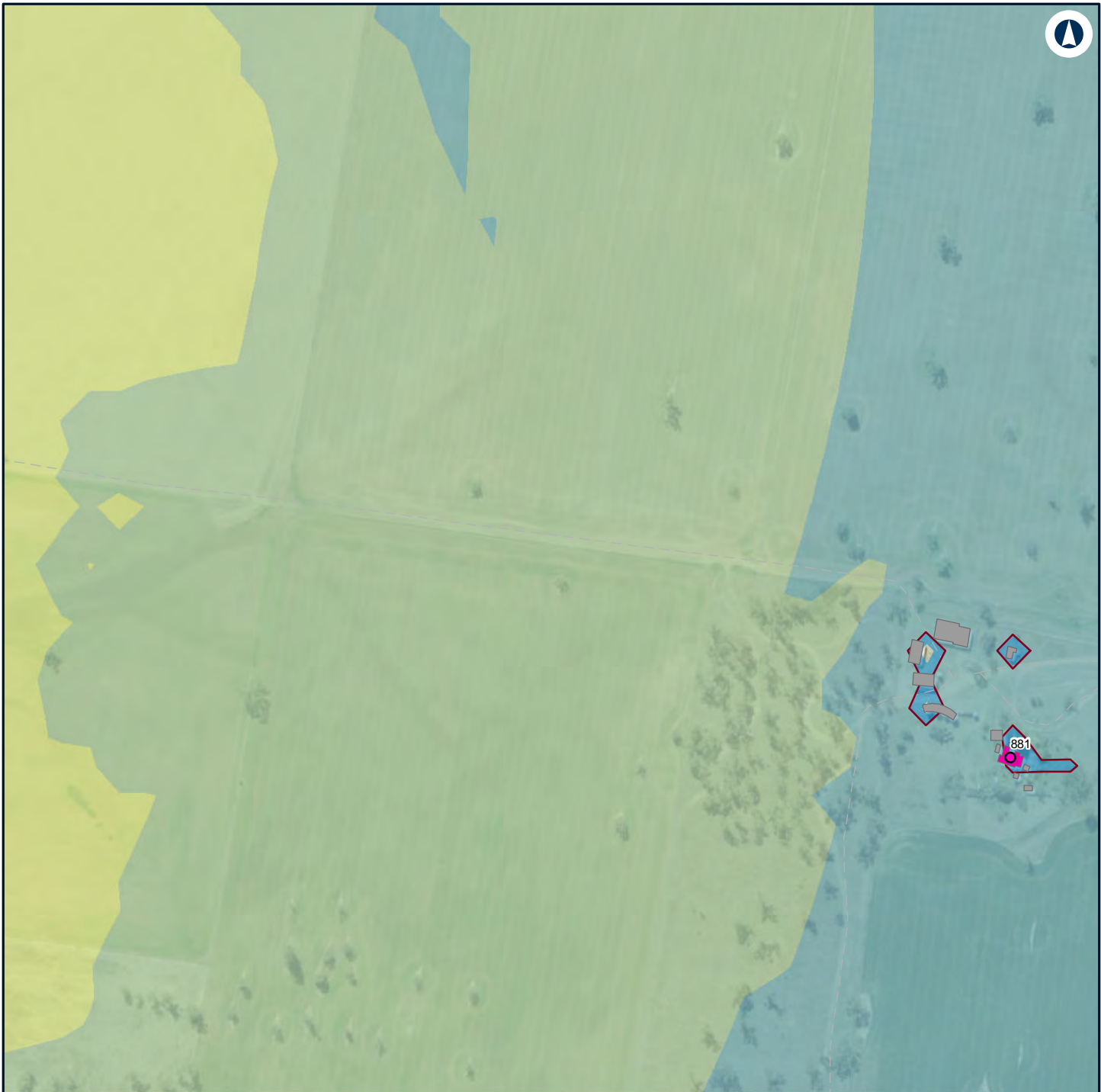
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LEGEND

Structure type

- Residential
- Other

- Residential

- Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

- 30 - 35

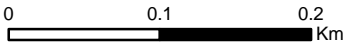
- 35 - 40
- 40 - 45
- 45 - 50



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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Coordinate System: GDA 1994 MGA Zone 55

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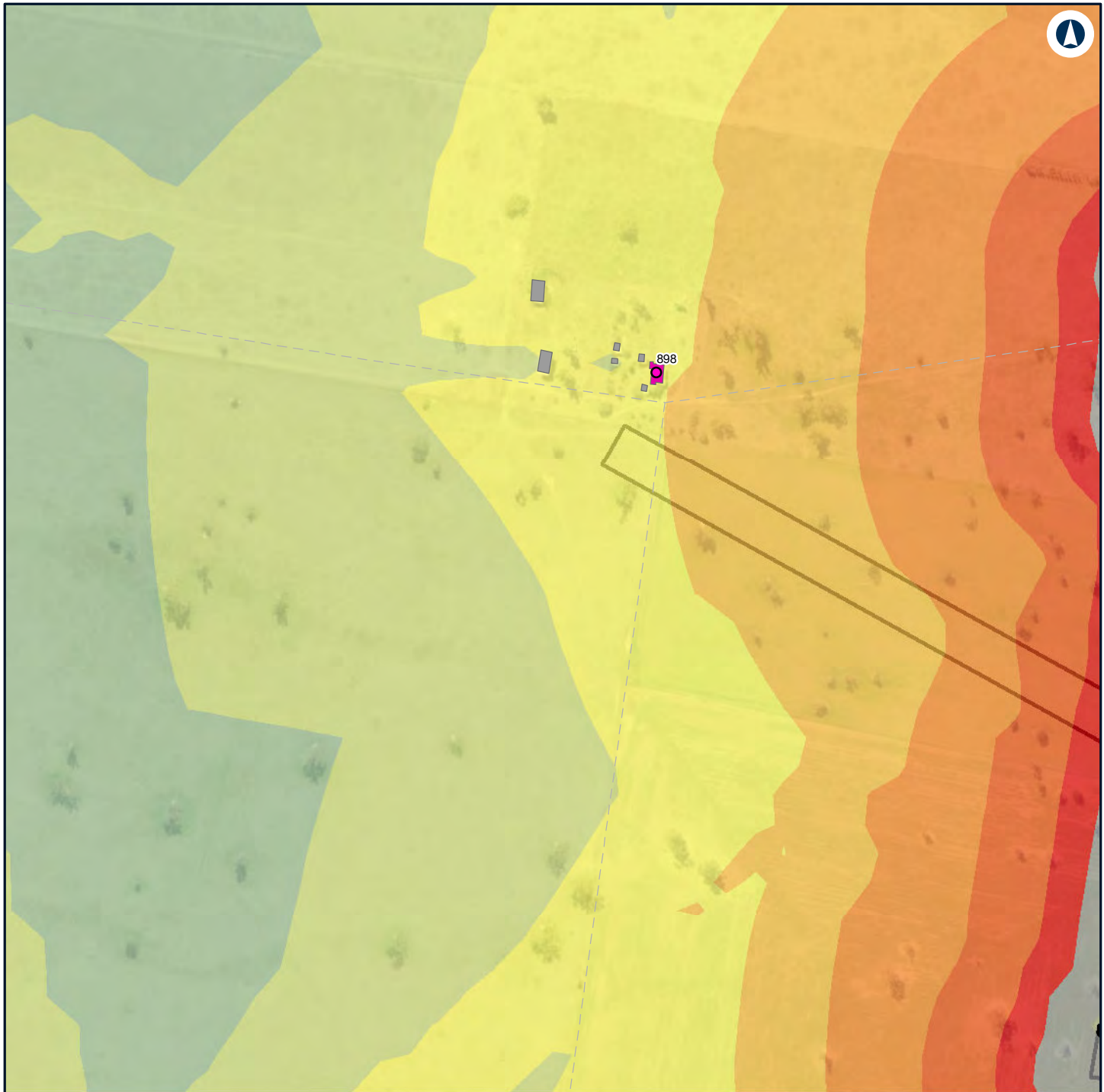
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LEGEND

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



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

Appendix F - Page 164 of 298

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)

- 35 - 40
- 40 - 45



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

Appendix F - Page 165 of 298

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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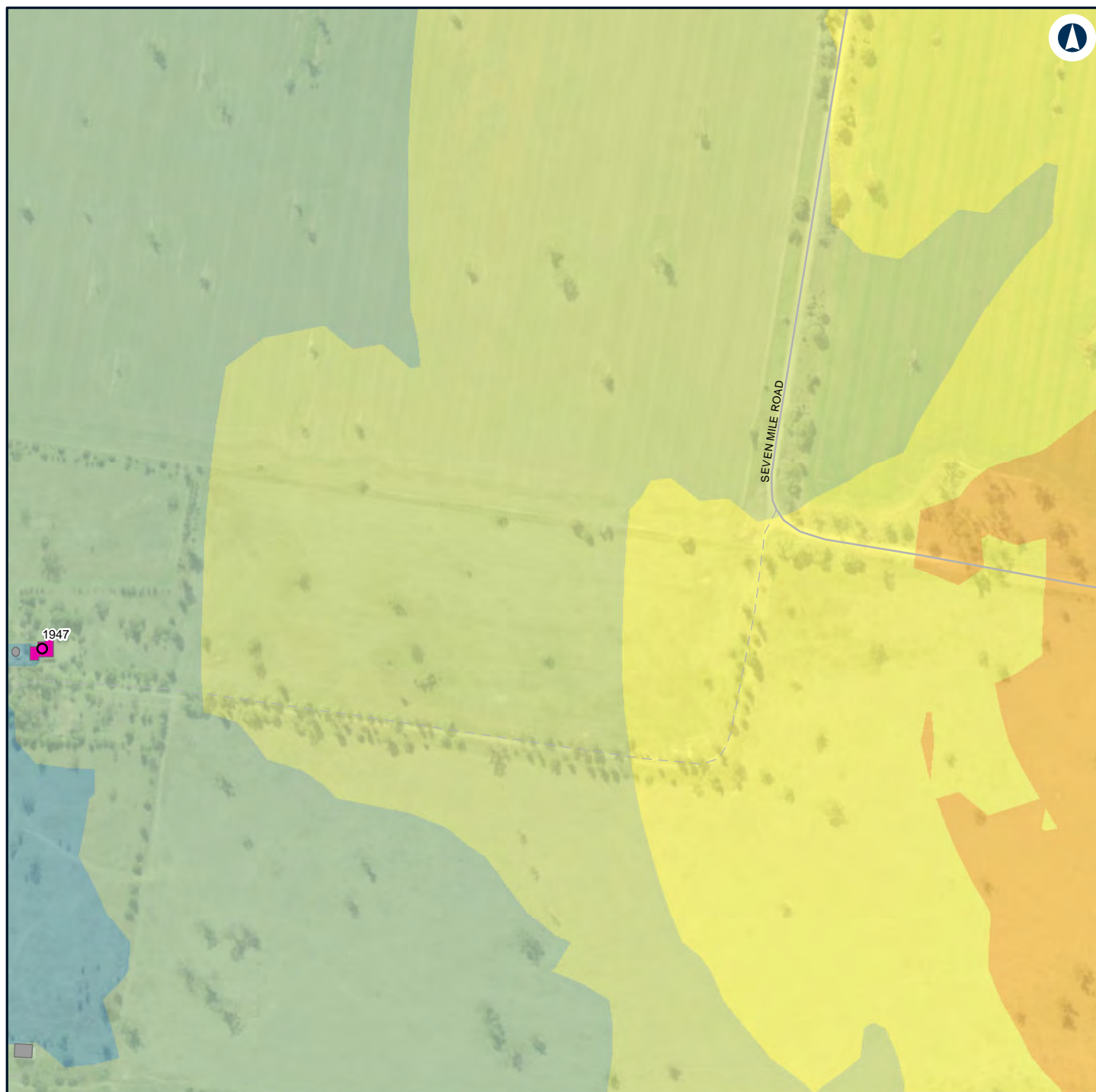
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LEGEND

Structure type

Residential

Other

Residential

Noise level (dBA L_{Aeq} 15 minute)

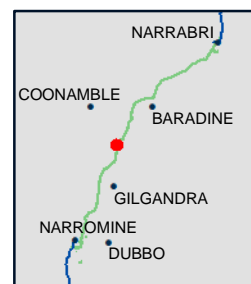
35 - 40

40 - 45

45 - 50

50 - 55

55 - 60



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

Appendix F - Page 166 of 298

0 0.1 0.2
Km

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LEGEND

Structure type

Residential

Other

Residential

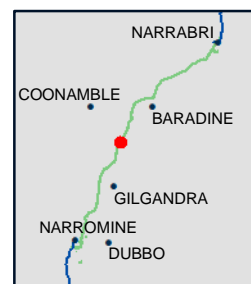
Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

30 - 35

35 - 40

40 - 45



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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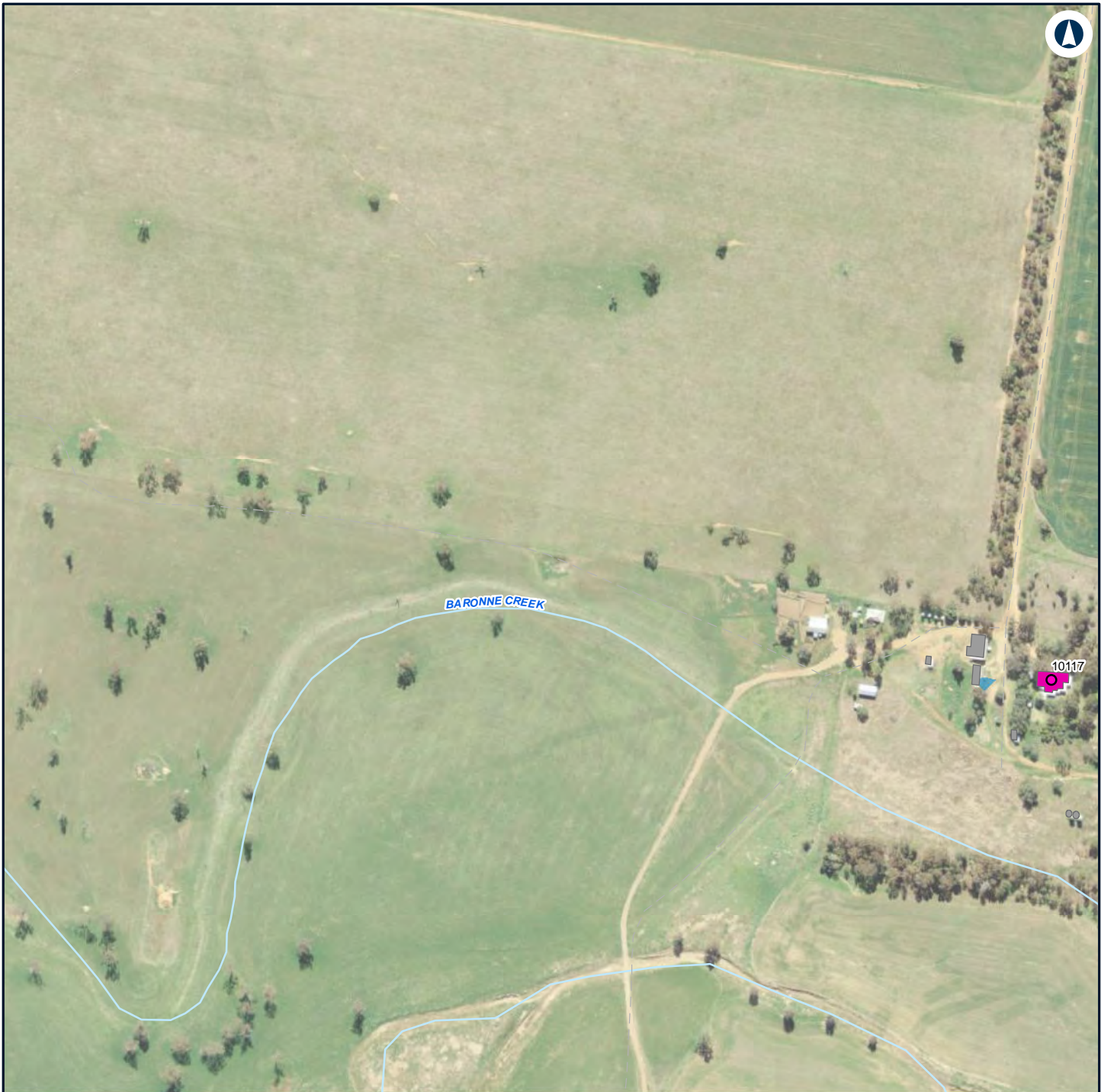
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LEGEND

Structure type

- Residential
- Other
- Residential

Noise level (dBA L_{Aeq} 15 minute)

30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2 Km

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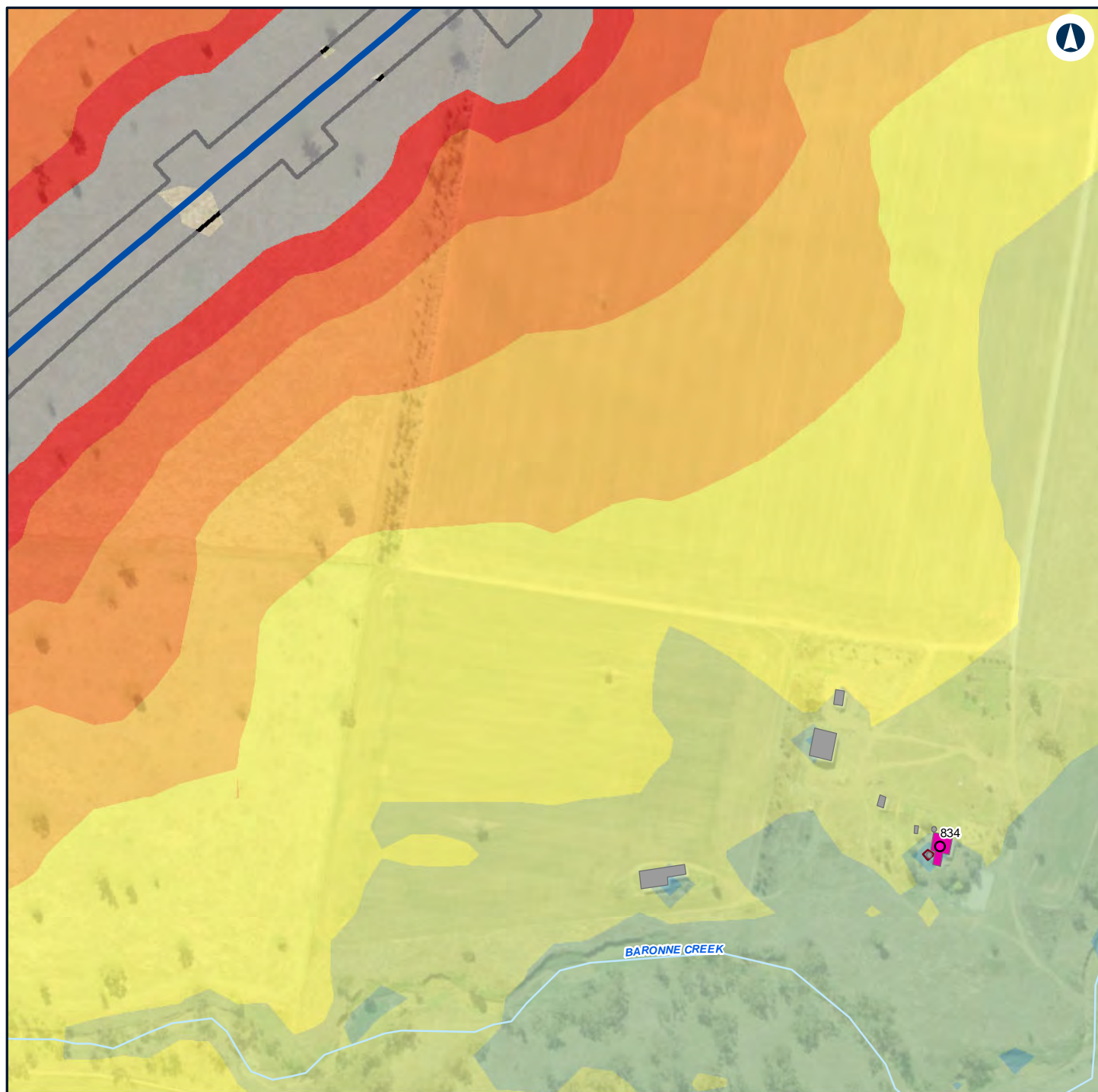
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LEGEND

Construction footprint

Structure type

Residential

Other

Residential

Alignment

Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

30 - 35

35 - 40

40 - 45

45 - 50

50 - 55

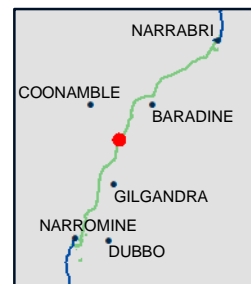
55 - 60

60 - 65

65 - 70

70 - 75

> 75



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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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

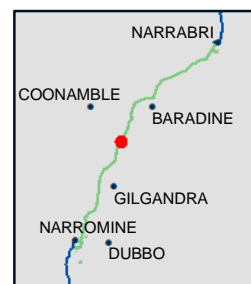
— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40

■ 40 - 45



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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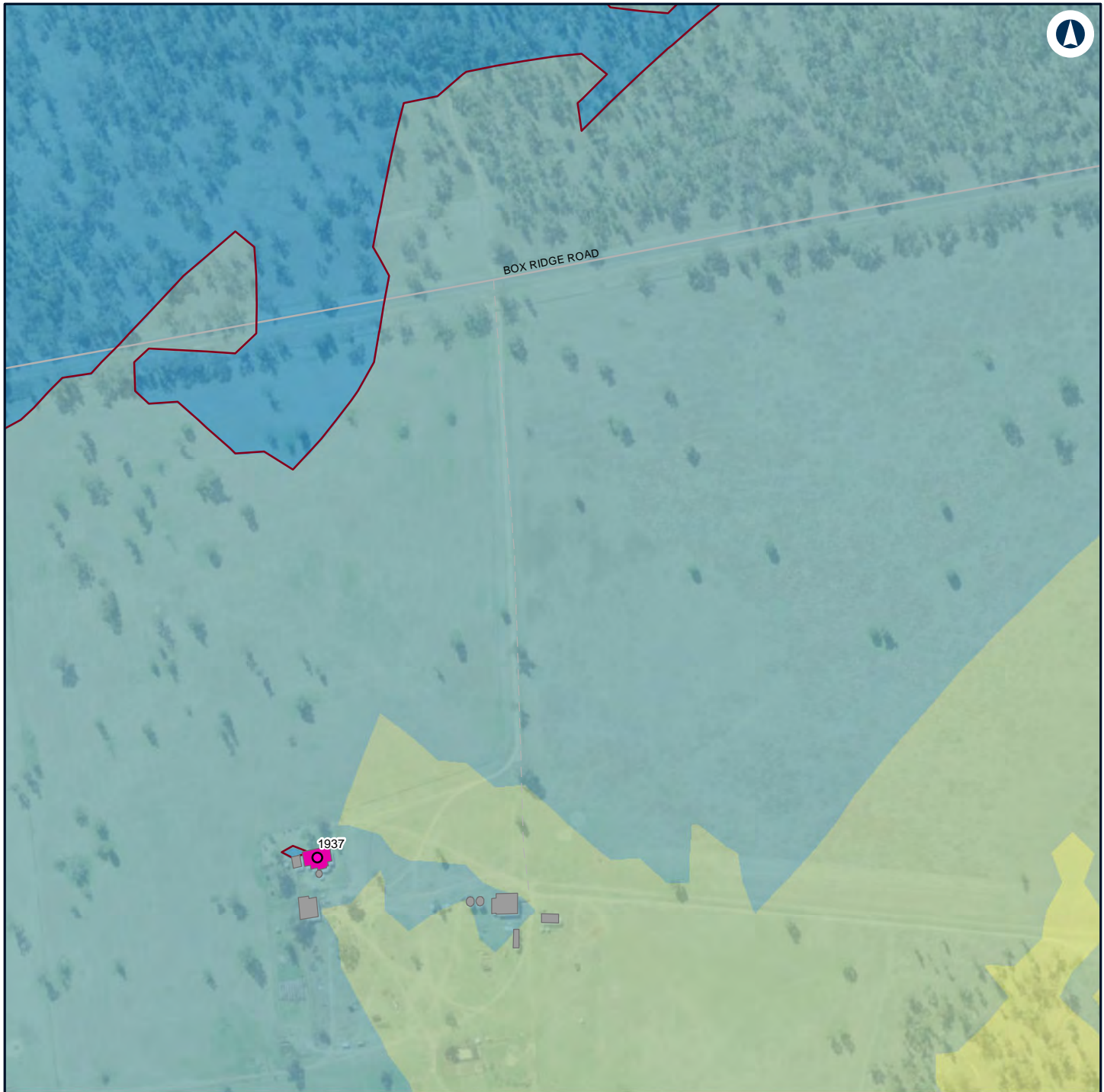
Author: GHD

Scale: 1:5,000

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

**INLAND
RAIL** **ARTC**

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LEGEND

Structure type

- Residential
- Other

■ Residential

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40
■ 40 - 45
■ 45 - 50



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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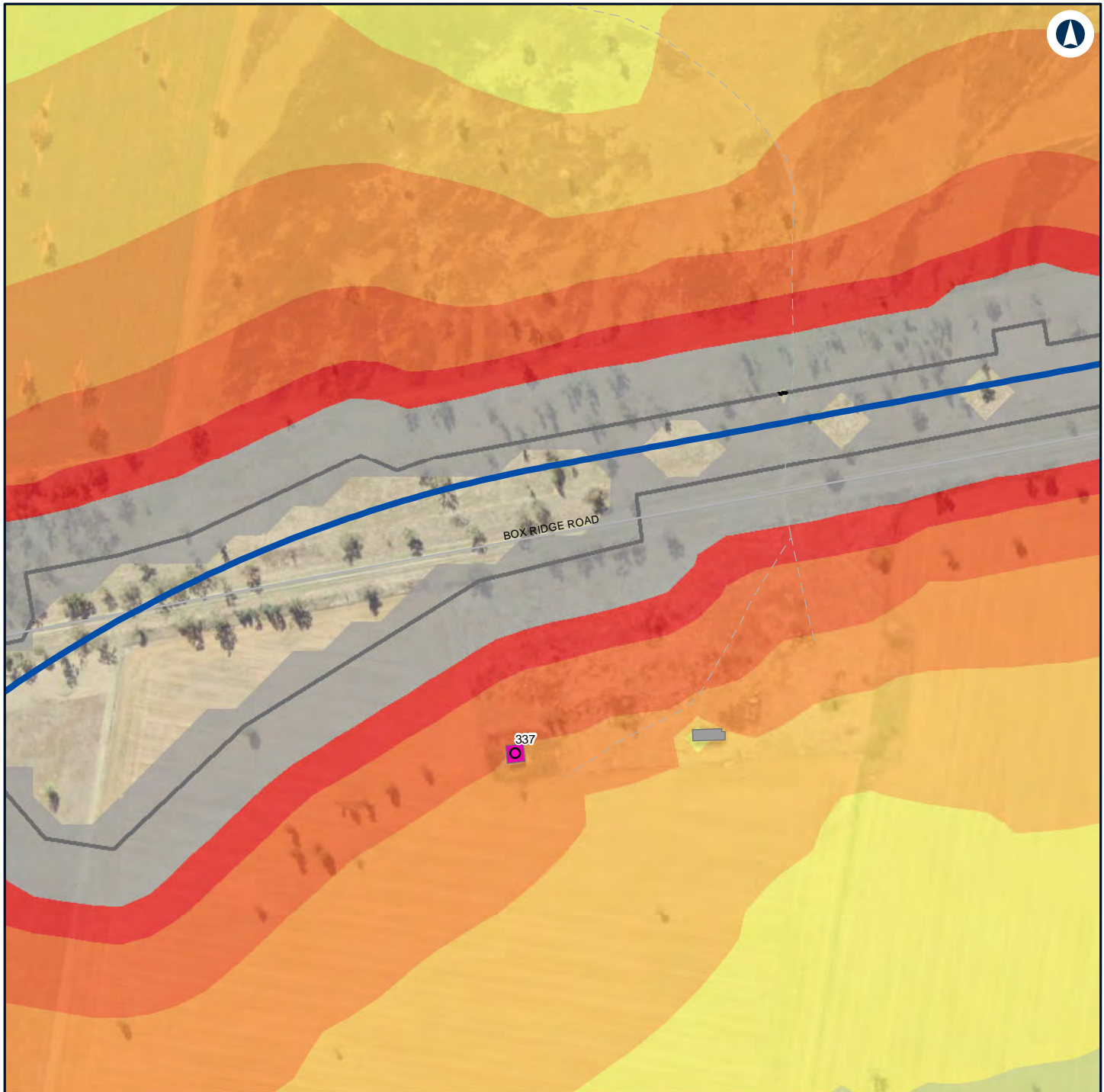
Author: GHD

Scale: 1:5,000

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

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LEGEND

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



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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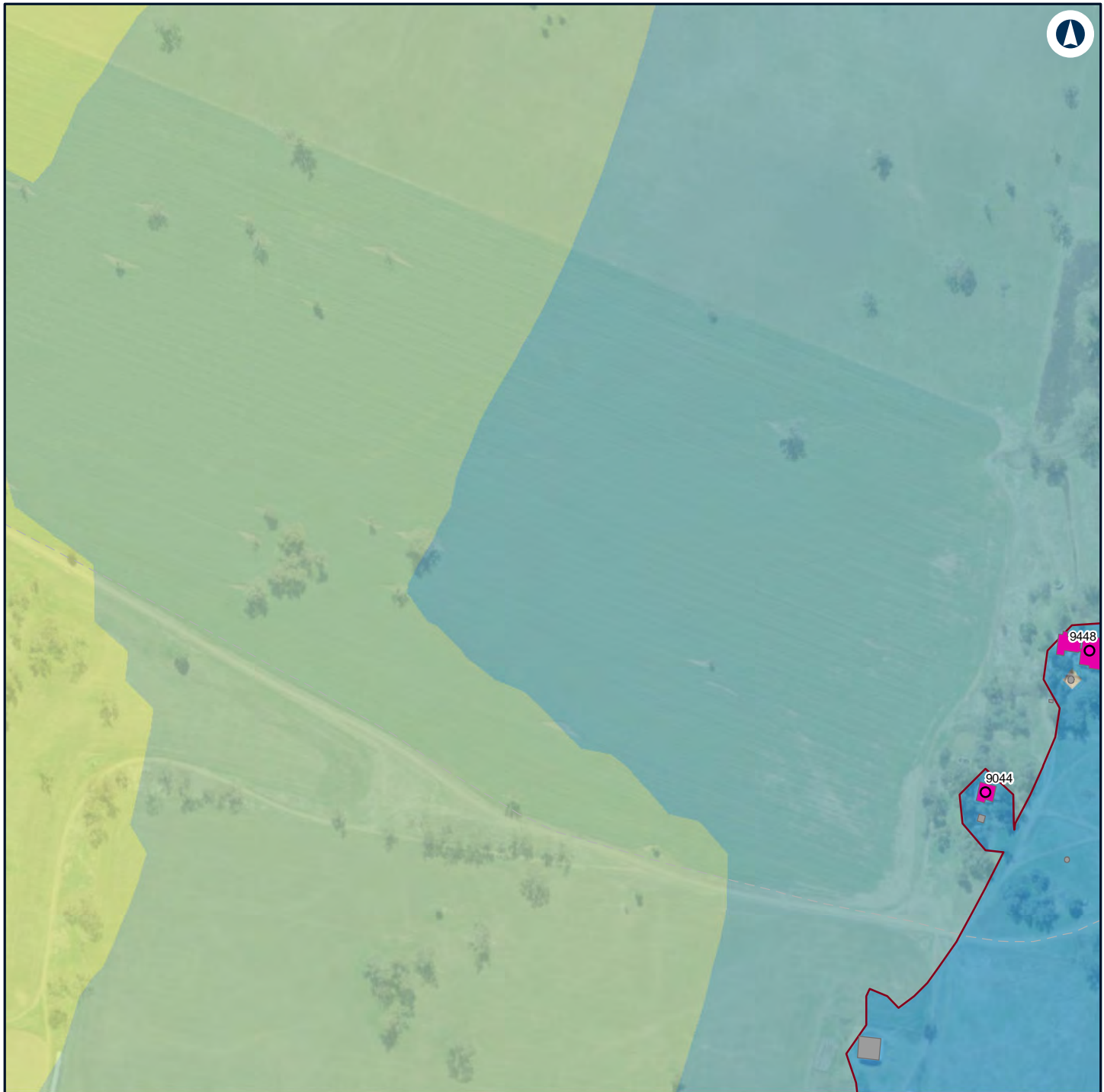
Author: GHD

Scale: 1:5,000

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

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LEGEND

Structure type

● Residential

■ Other

■ Residential

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40

■ 40 - 45

■ 45 - 50



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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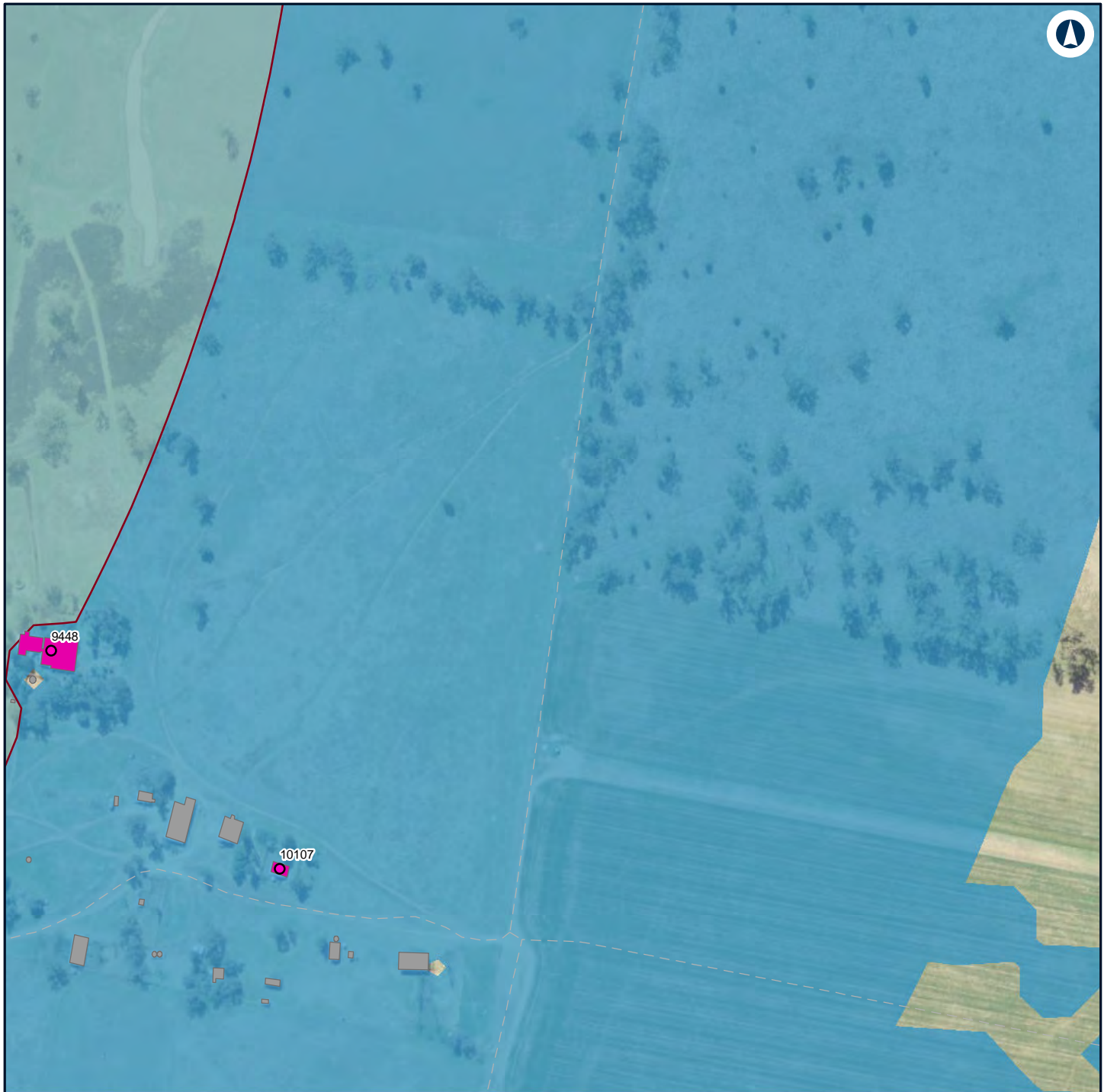
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Scale: 1:5,000

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

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LEGEND

Structure type

Residential

Other

Residential

Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

30 - 35

35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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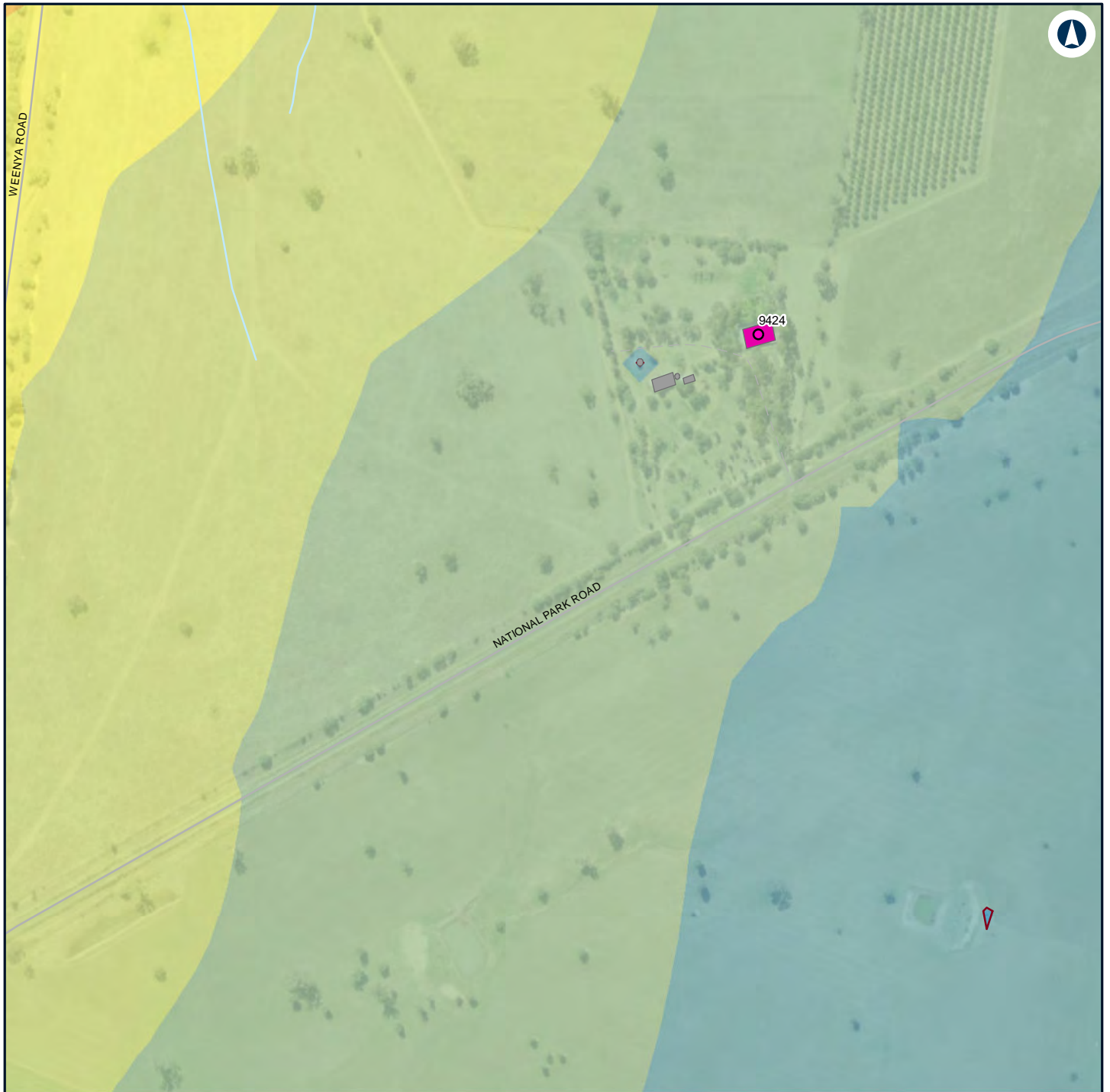
Author: GHD

Scale: 1:5,000

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

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LEGEND

Structure type

Residential

Other

Residential

Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

30 - 35

35 - 40

40 - 45

45 - 50

50 - 55

55 - 60



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2 Km

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LEGEND

Structure type

● Residential

■ Other

■ Residential

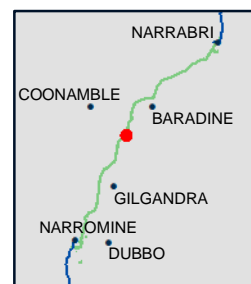
— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40

■ 40 - 45



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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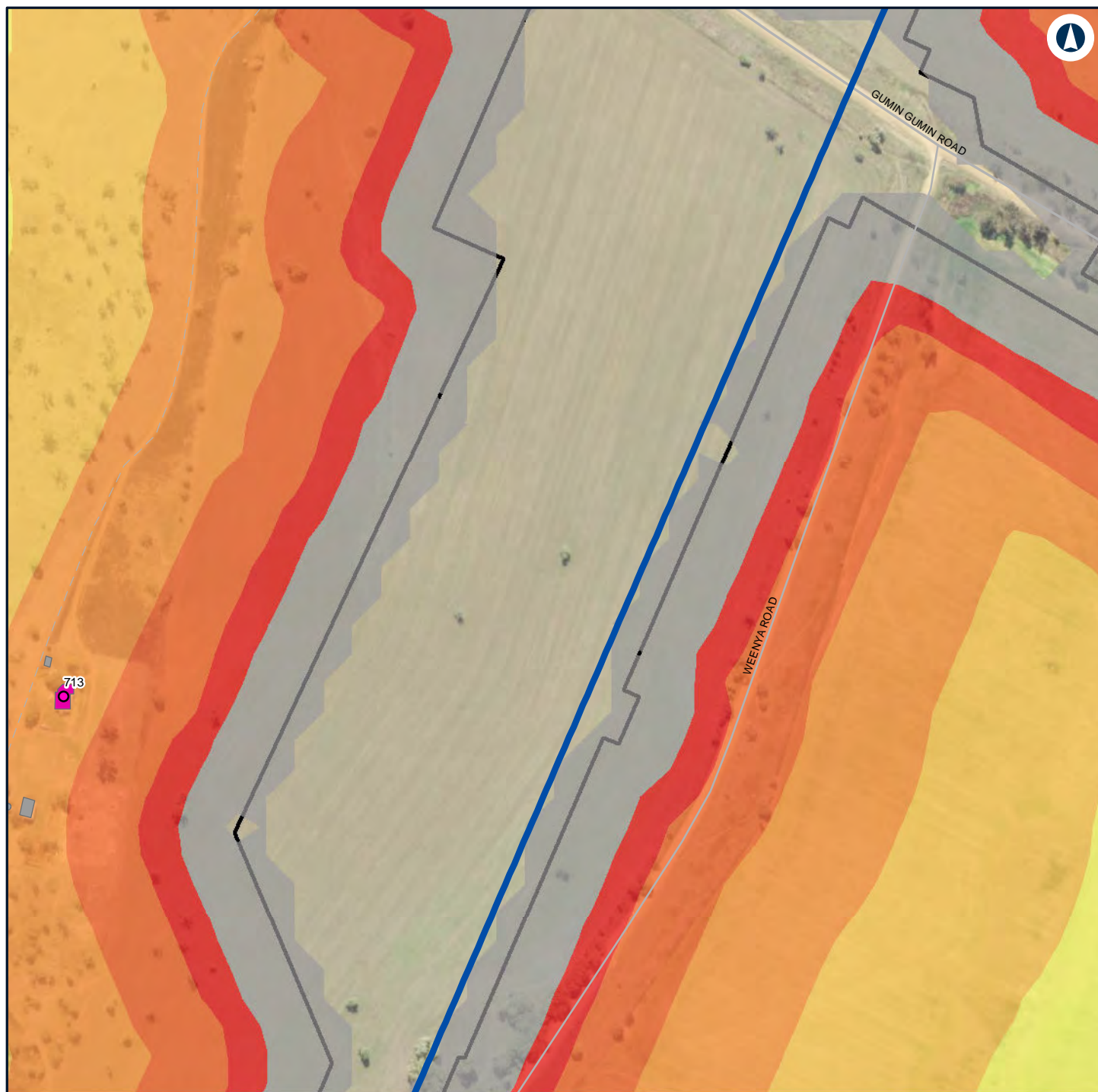
Author: GHD

Scale: 1:5,000

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

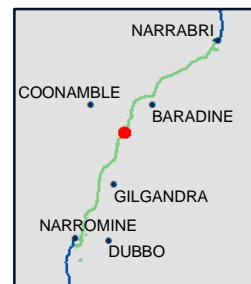
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LEGEND

	Construction footprint	Noise level (dBA L_{Aeq} 15 minute)
	Residential	50 - 55
	Other	55 - 60
	Residential	60 - 65
	Alignment	65 - 70
		70 - 75
		> 75



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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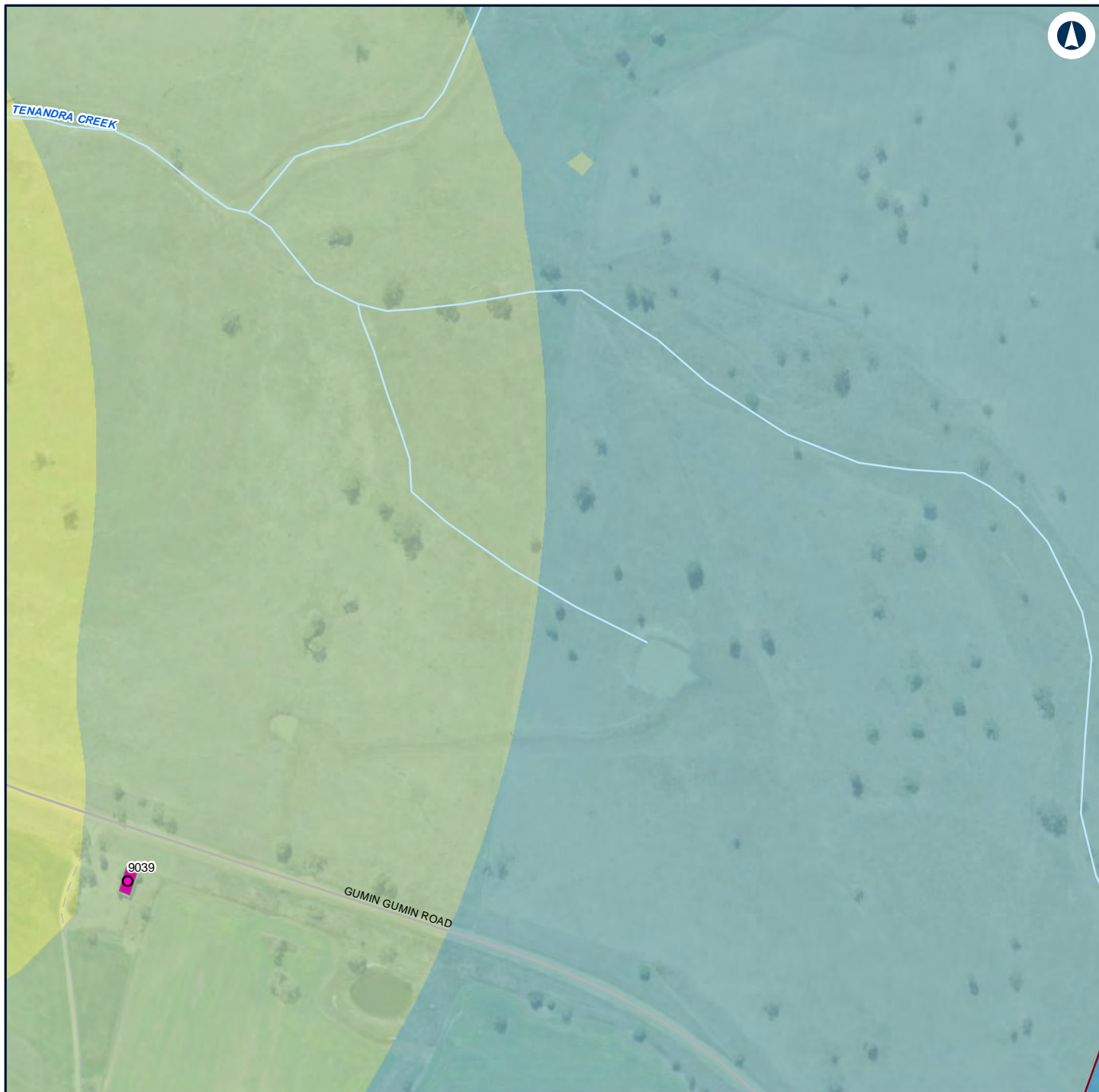
Author: GHD

Scale: 1:5,000

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

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LEGEND

Structure type

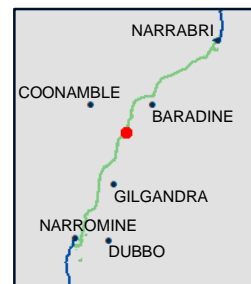
- Residential
- Residential

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

- 30 - 35
- 35 - 40

- 40 - 45
- 45 - 50
- 50 - 55



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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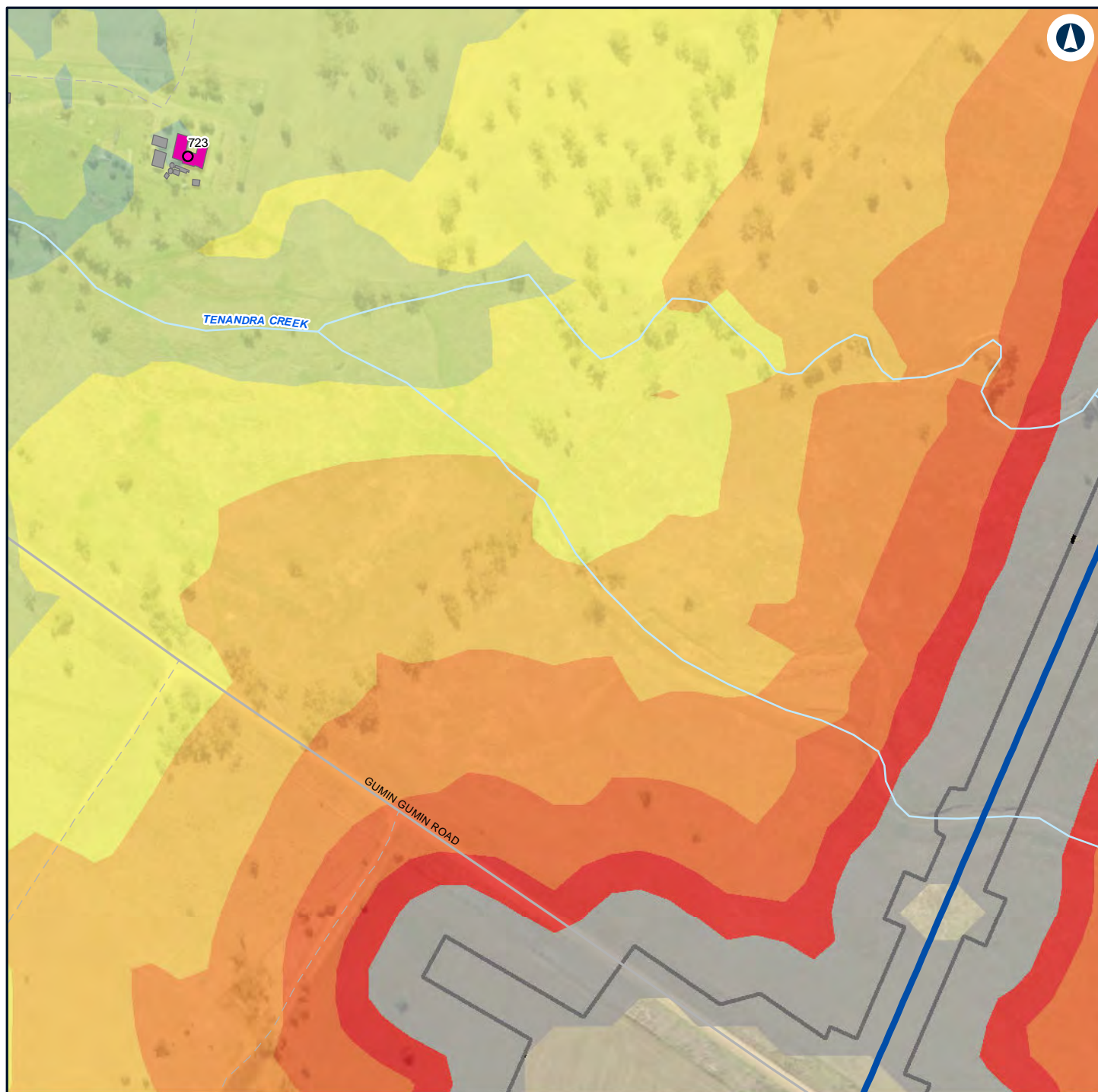
Author: GHD

Scale: 1:5,000

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

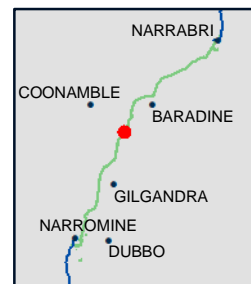
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LEGEND

Construction footprint	Noise level (dBA L_{Aeq} 15 minute)	65 - 70
Structure type	30 - 35	70 - 75
Residential	40 - 45	> 75
Other	45 - 50	
Residential	50 - 55	
Alignment	55 - 60	
	60 - 65	



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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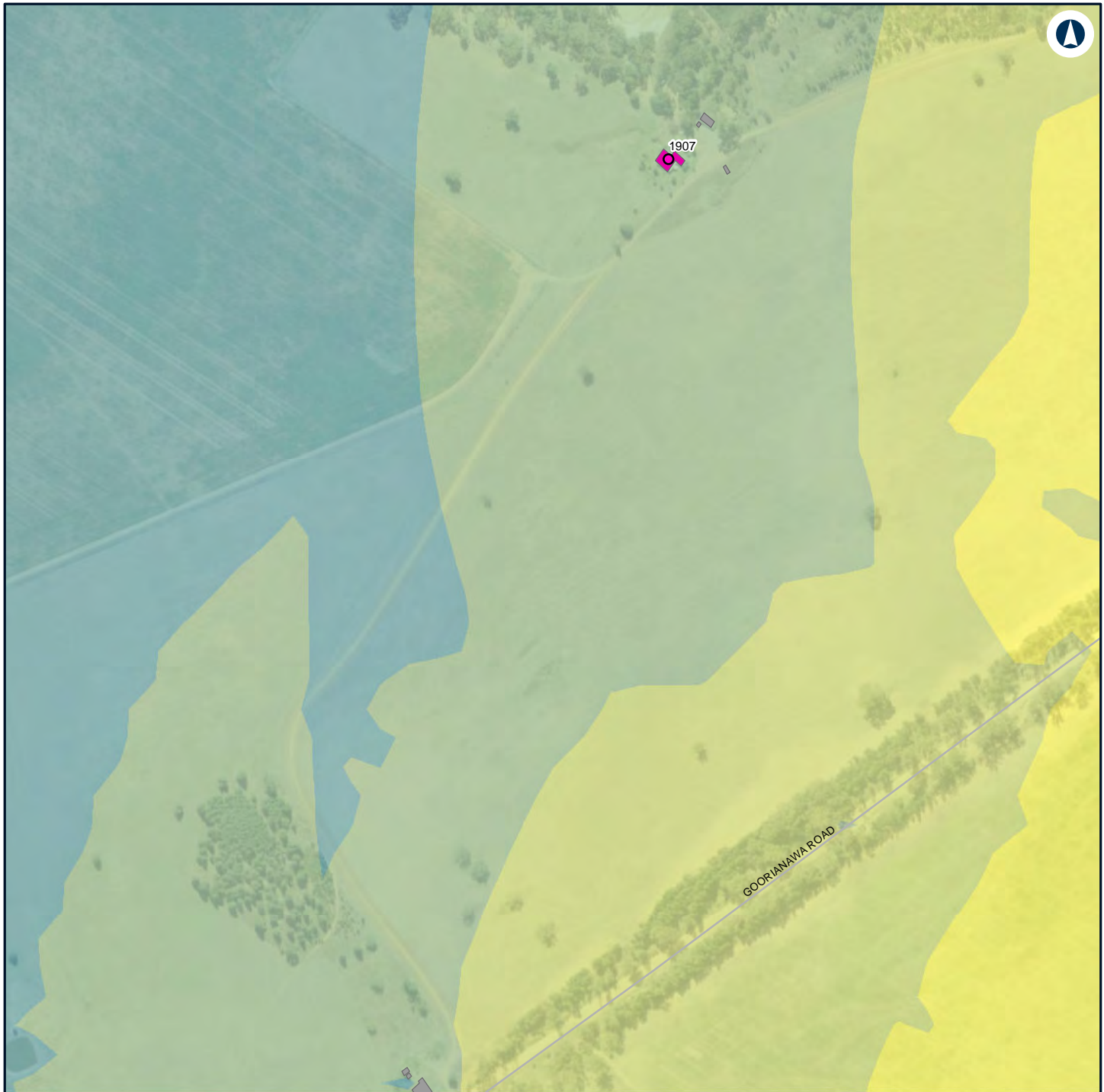
Author: GHD

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



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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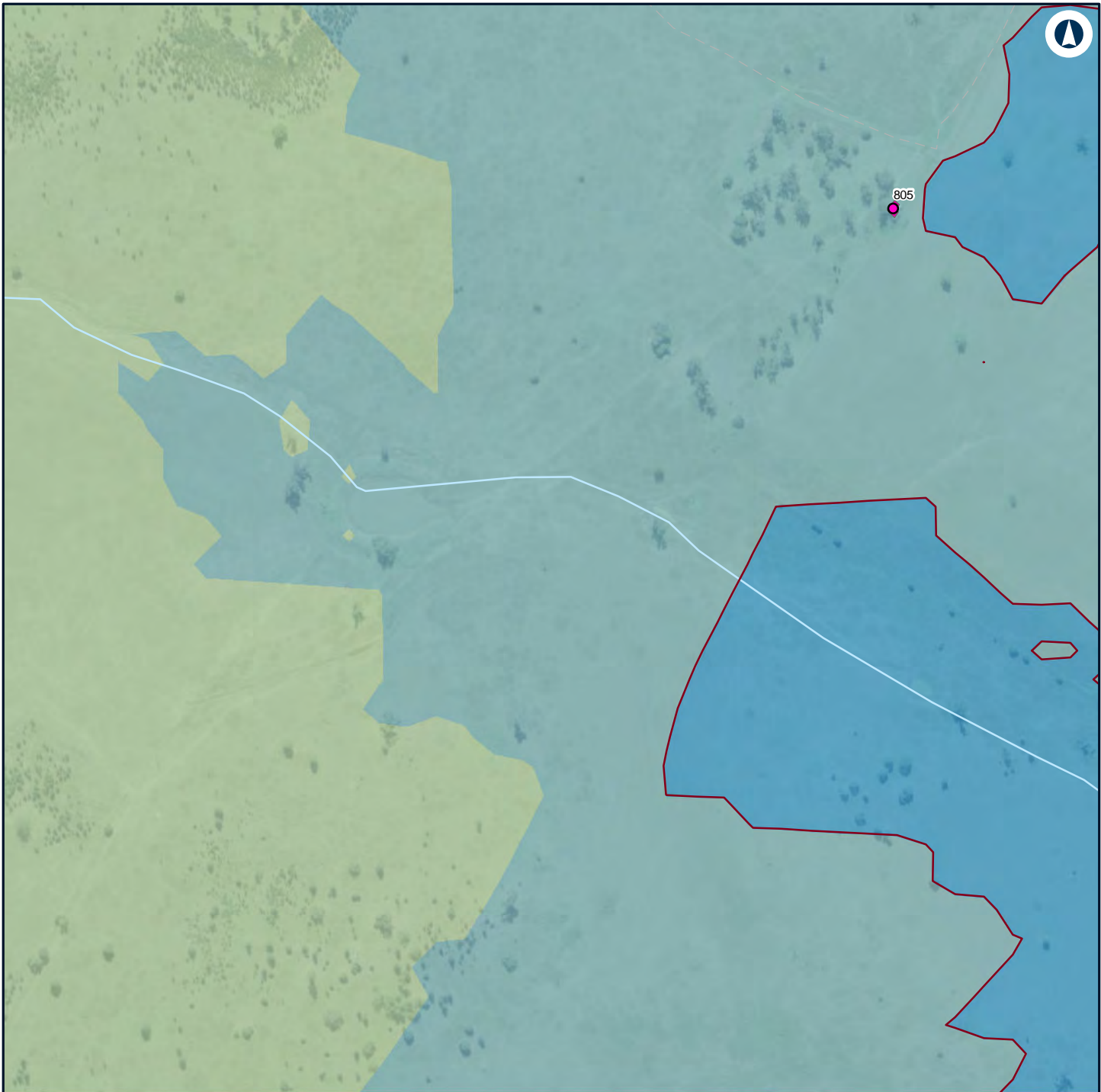
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LEGEND

Structure type

● Residential

■ Residential

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40

■ 40 - 45



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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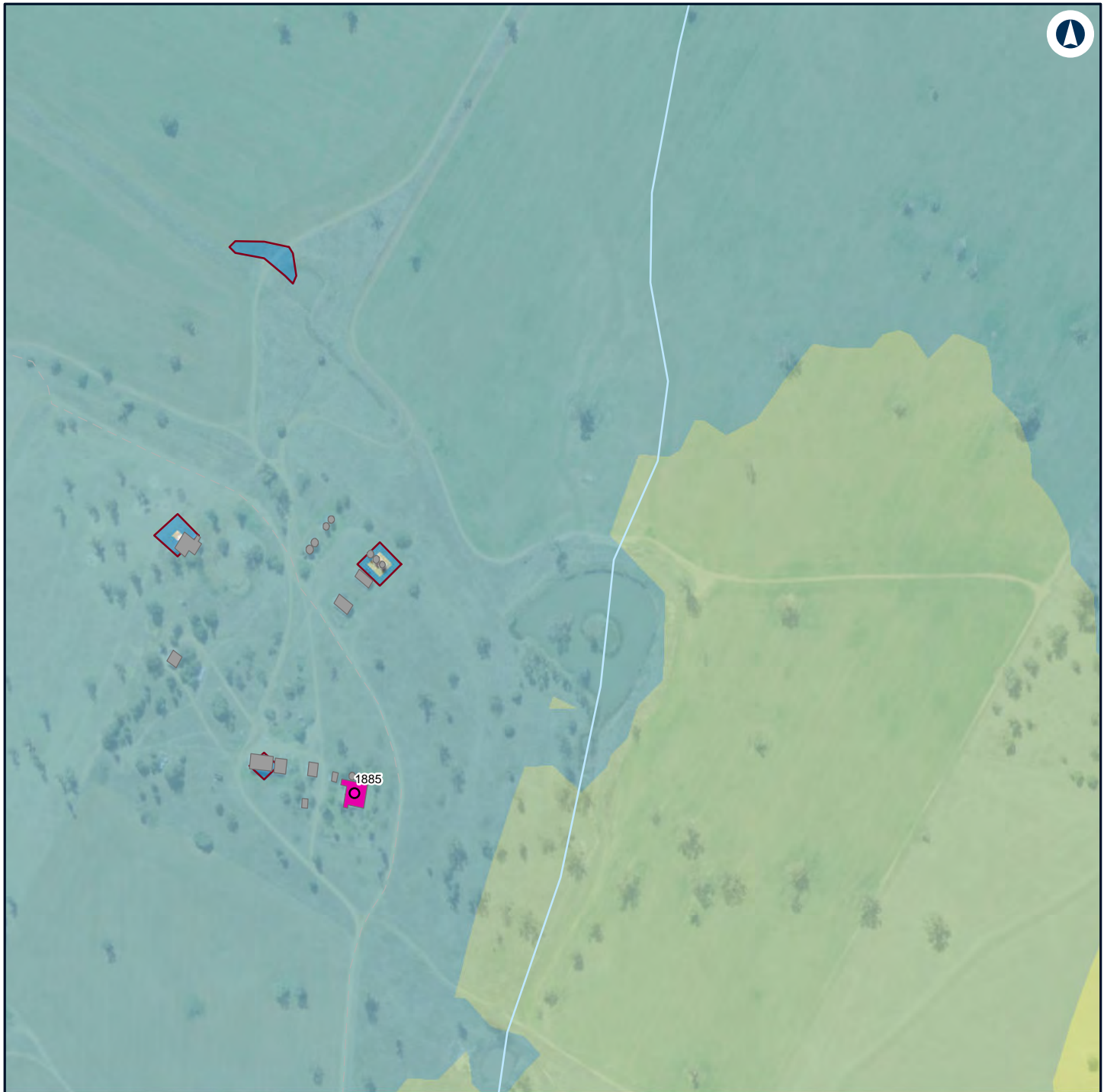
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

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LEGEND

Structure type

- Residential
- Other

■ Residential

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40
■ 40 - 45
■ 45 - 50



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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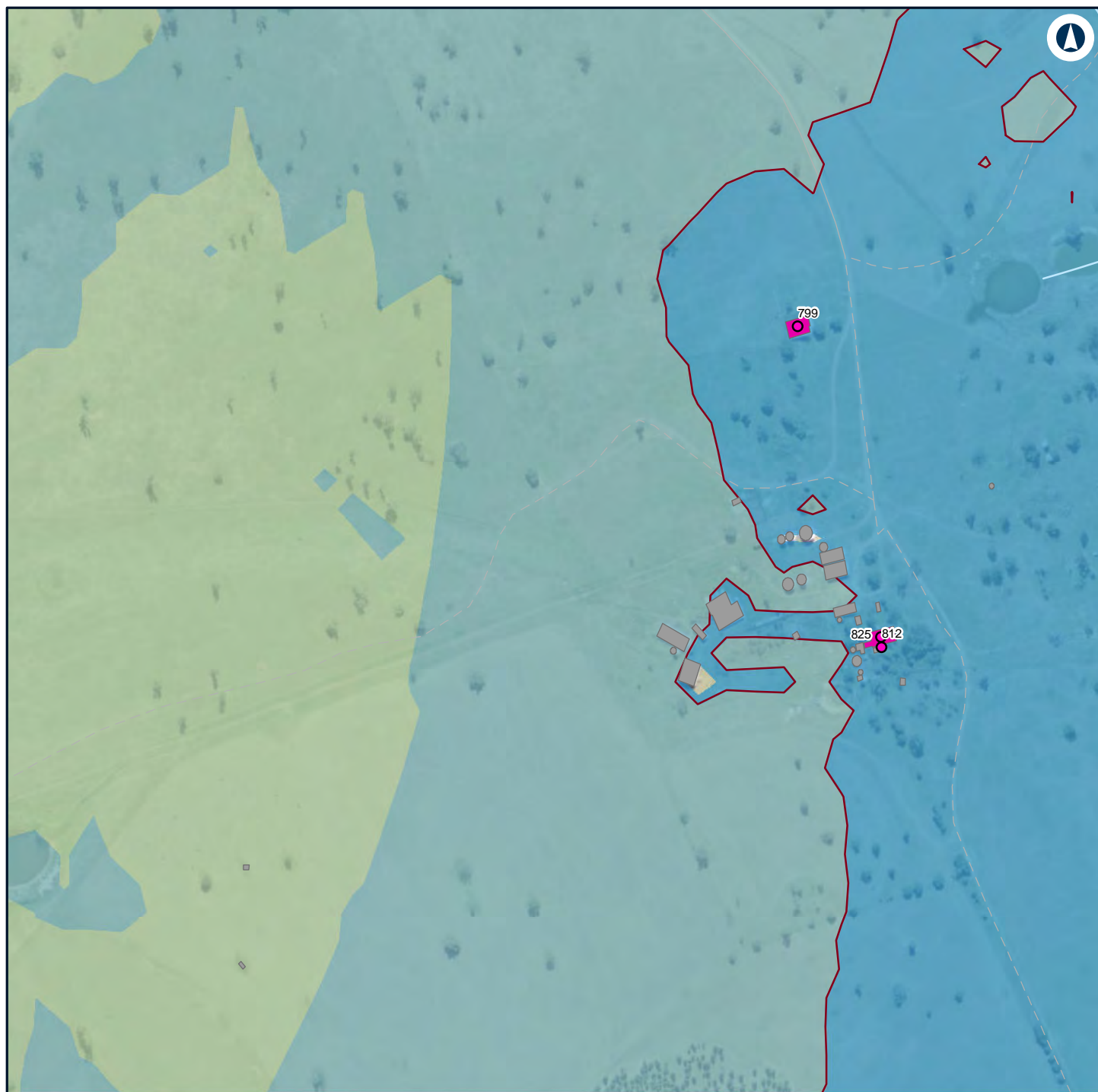
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LEGEND

Structure type

Residential

Other

Residential

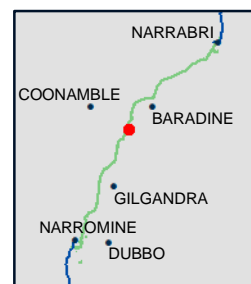
Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

30 - 35

35 - 40

40 - 45



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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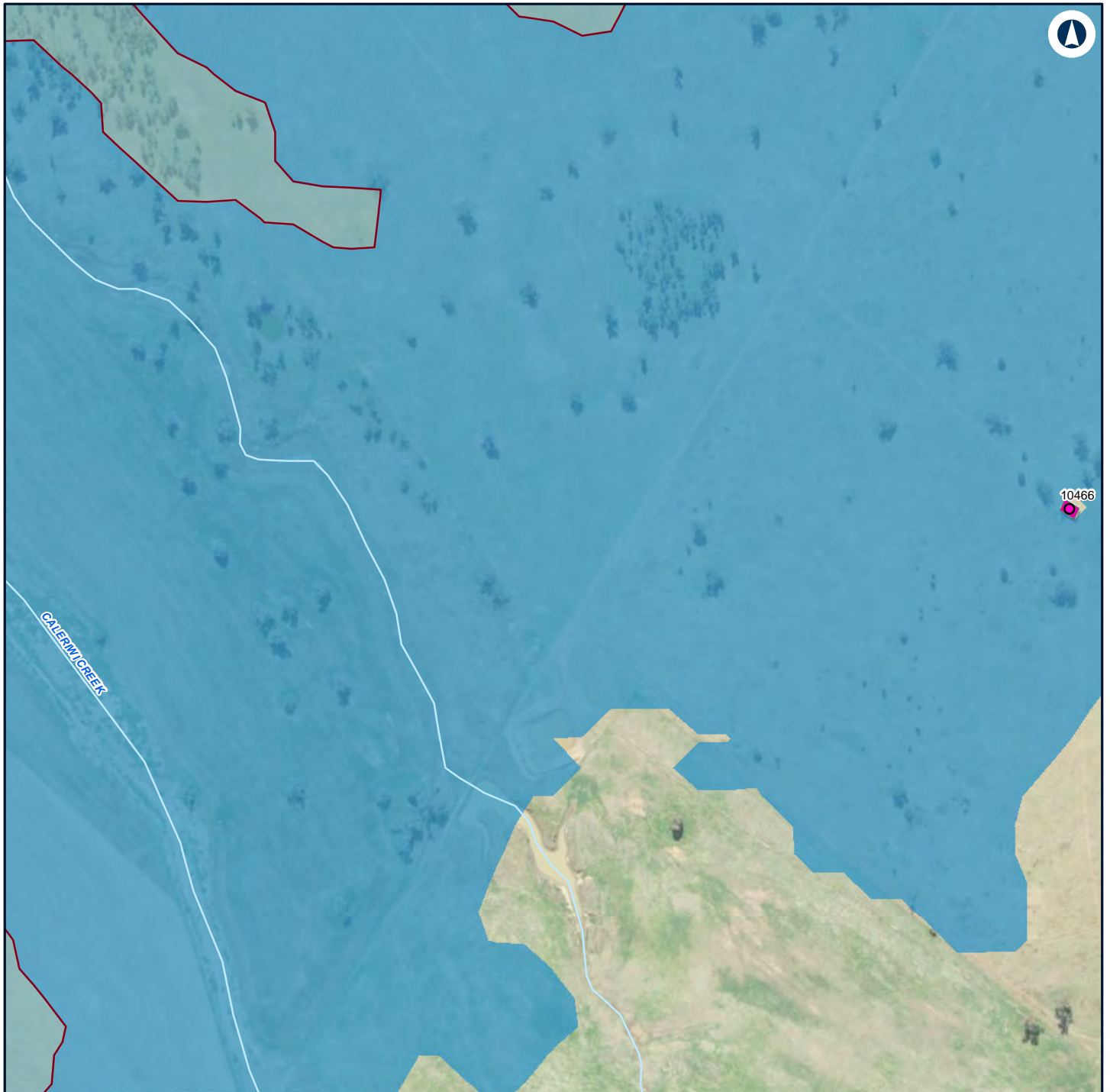
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LEGEND

Structure type

- Residential
- Residential

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

- 30 - 35
- 35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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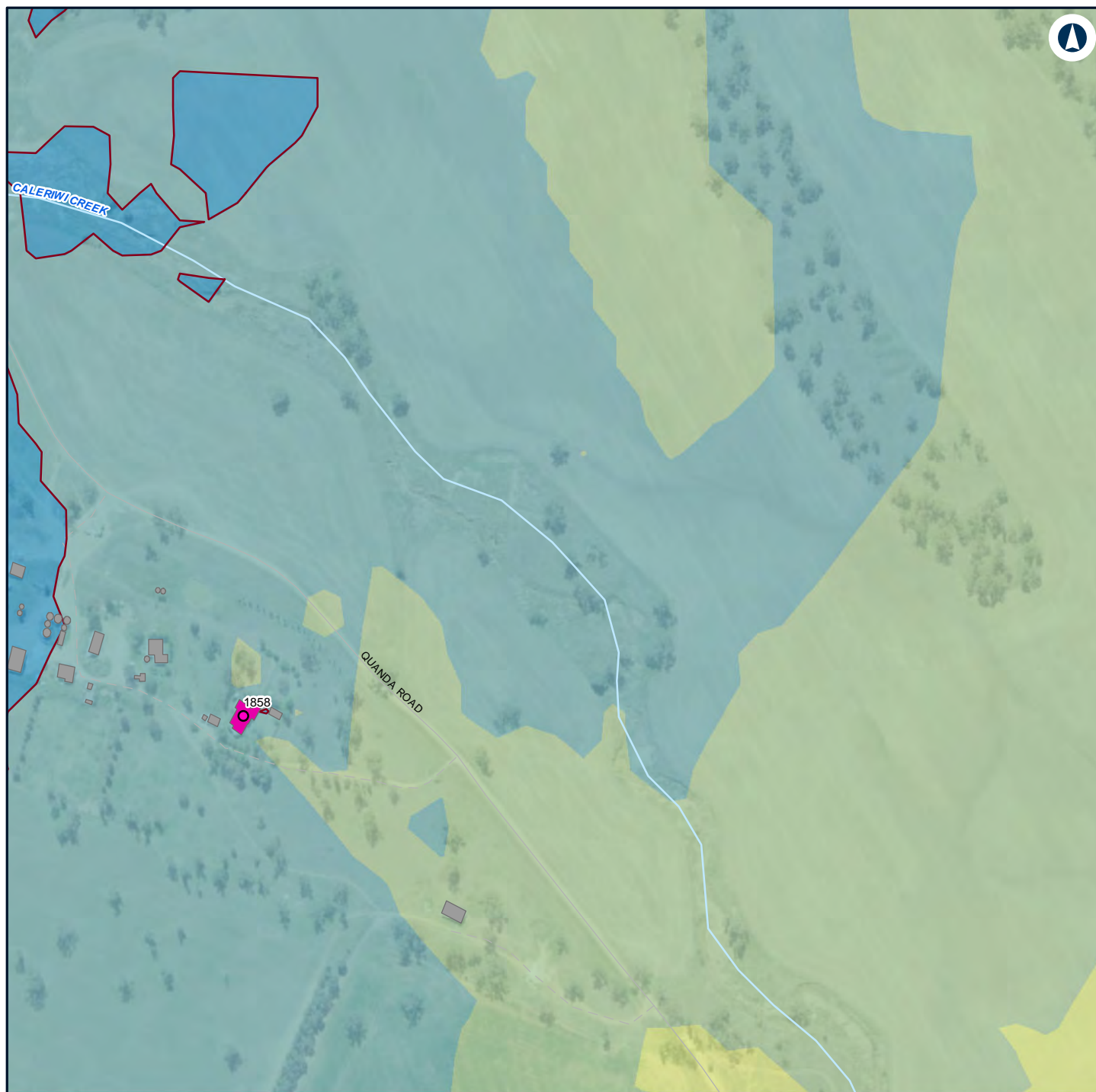
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LEGEND

Structure type

● Residential

■ Other

■ Residential

— Night-time noise management level

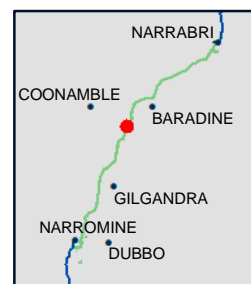
Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40

■ 40 - 45

■ 45 - 50



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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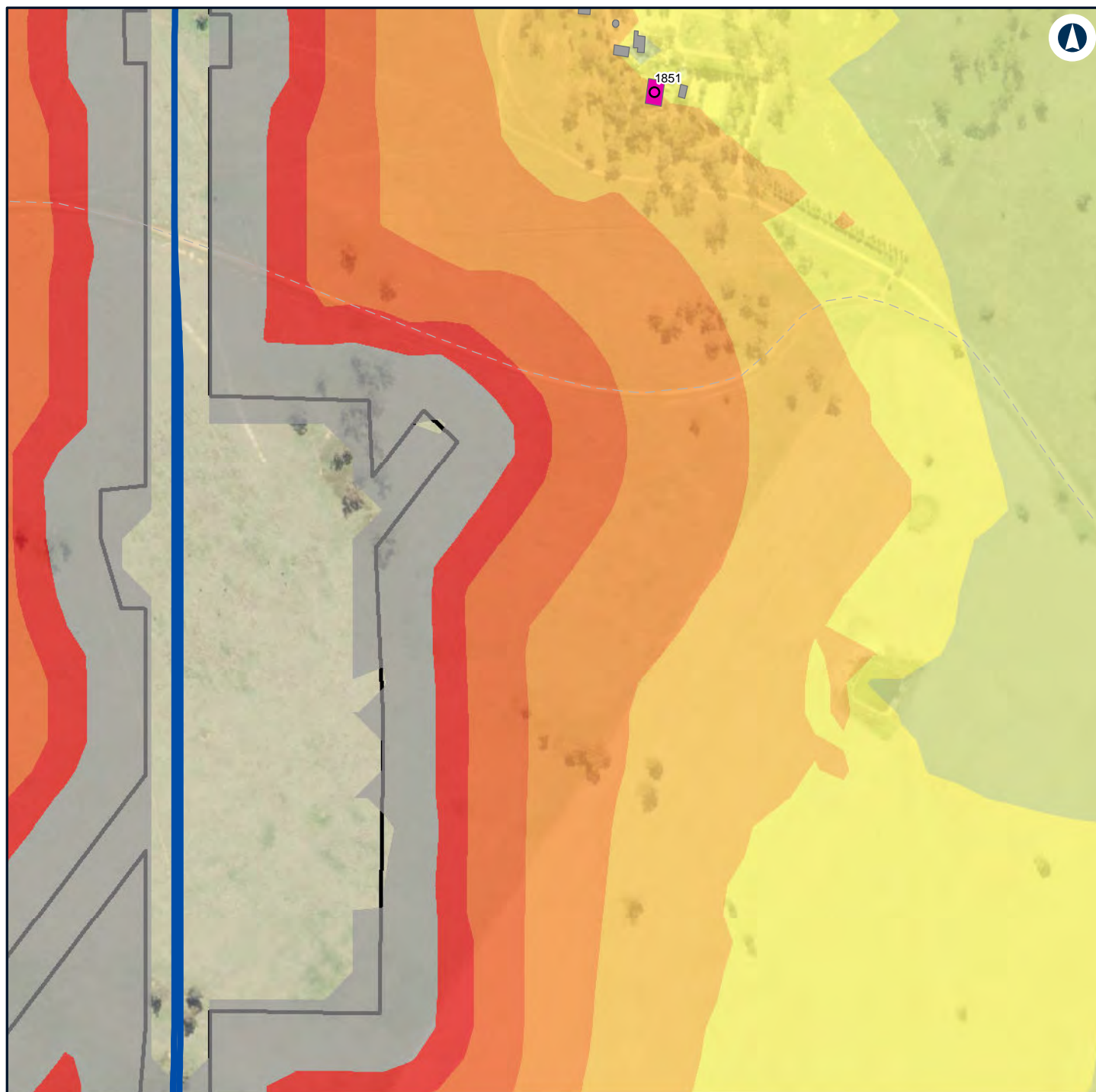
Author: GHD

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

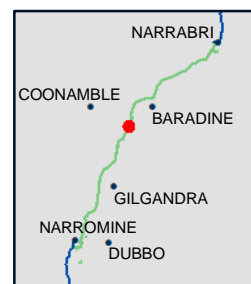
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LEGEND

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



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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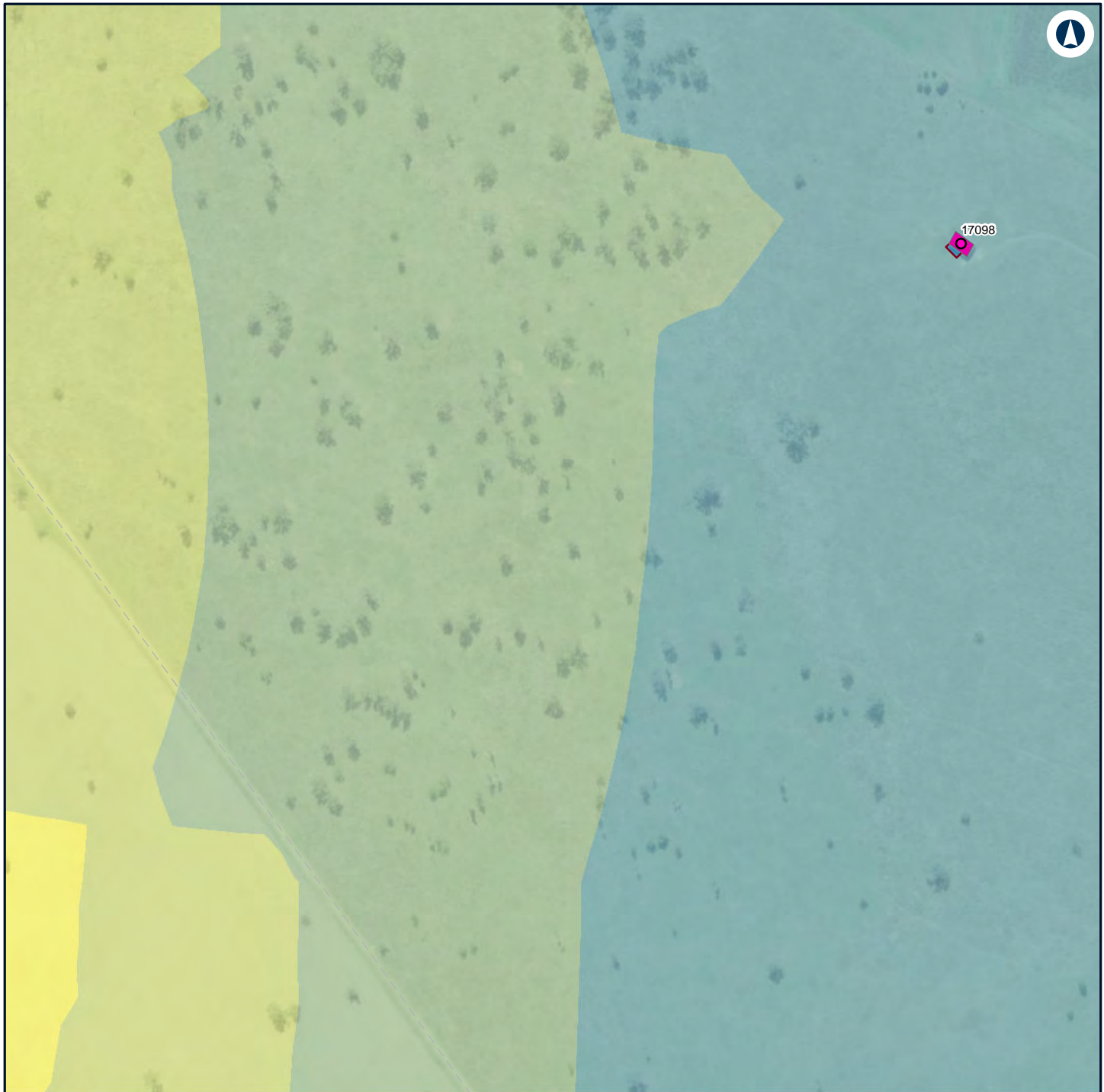
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LEGEND

Structure type

- Residential
- Residential

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

- 30 - 35
- 35 - 40

- 40 - 45
- 45 - 50
- 50 - 55



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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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

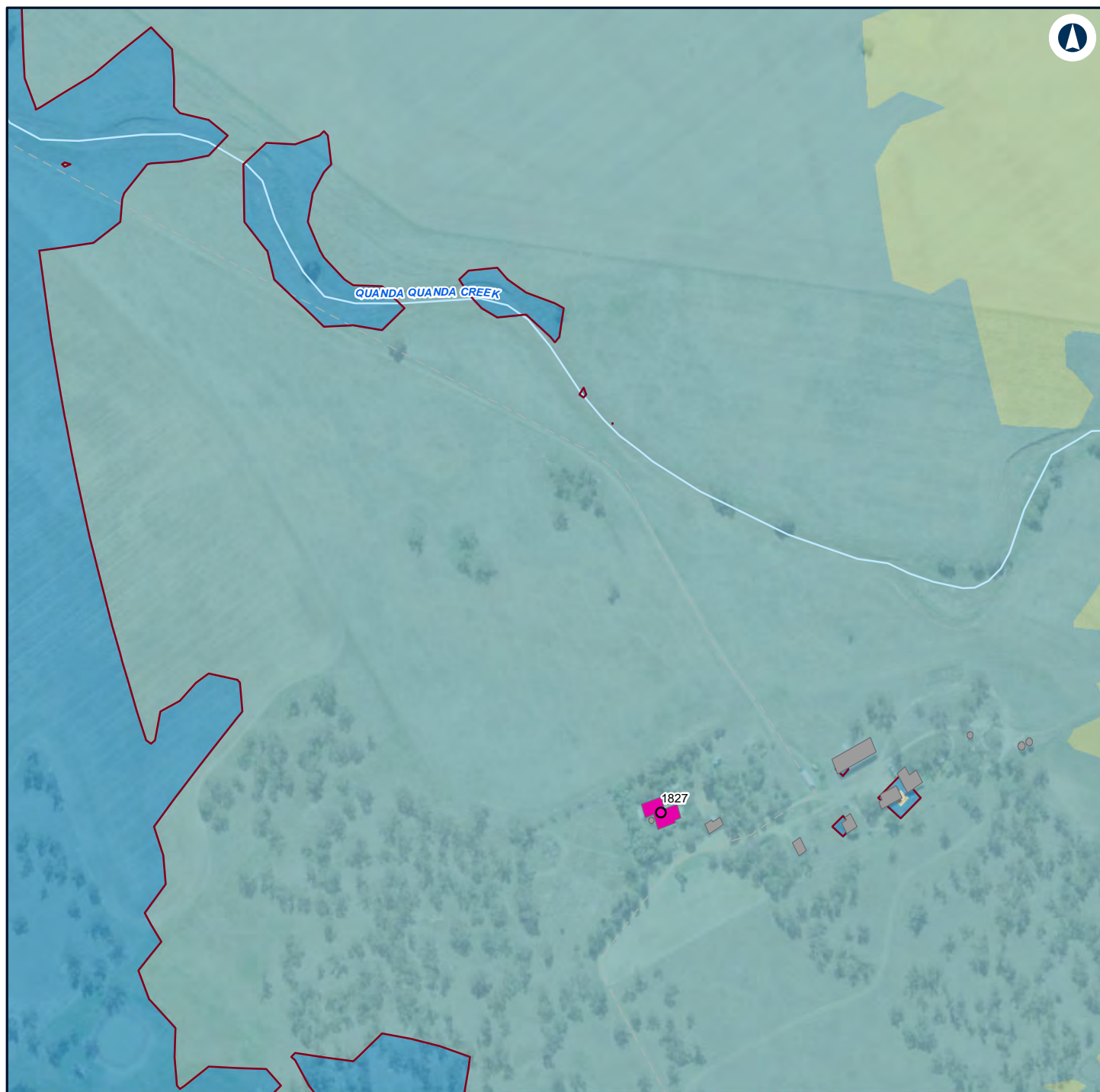
Author: GHD

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

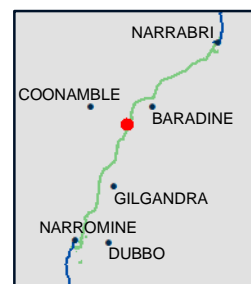
— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40

■ 40 - 45



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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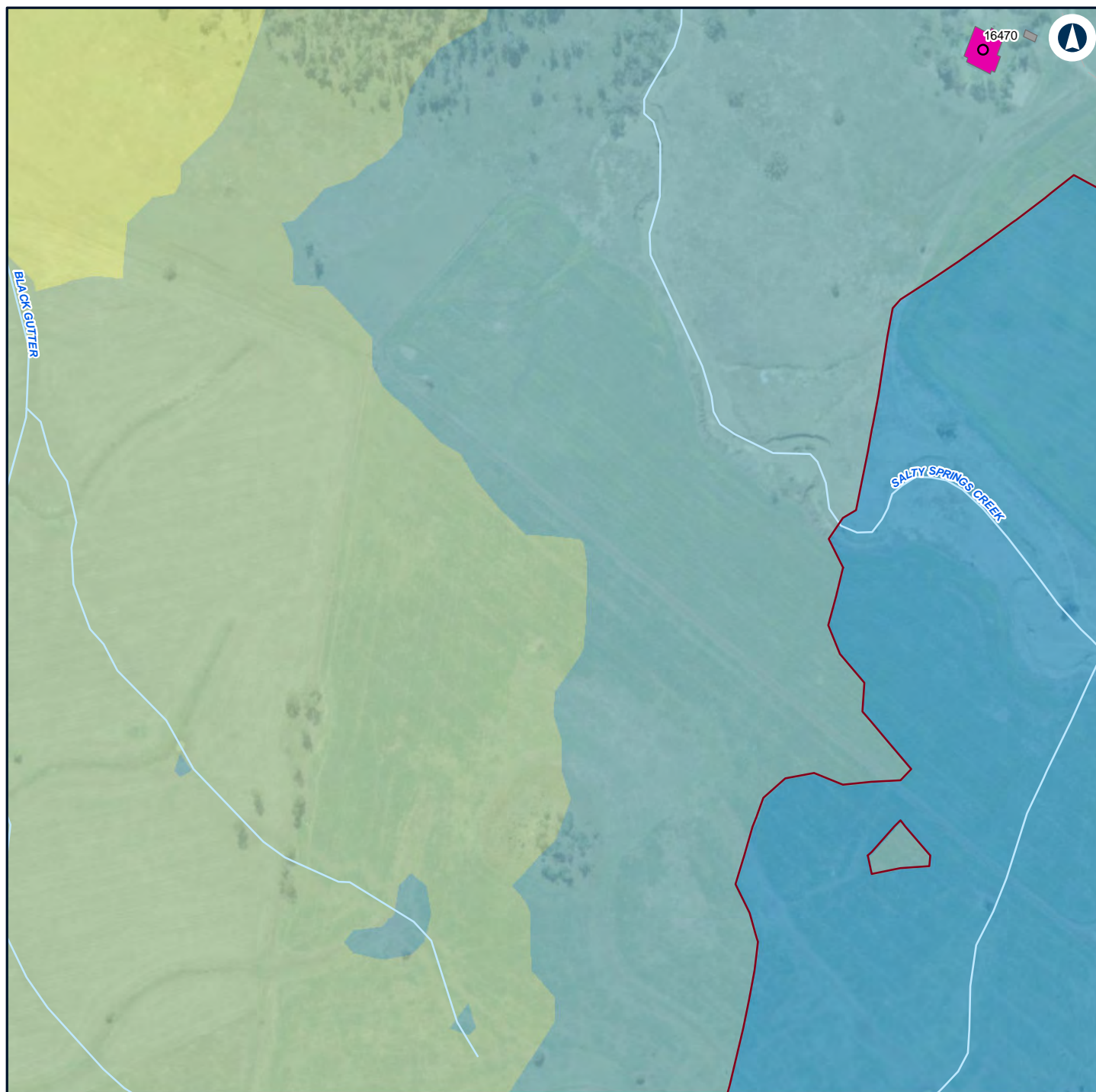
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LEGEND

Structure type

Residential

Other

Residential

Night-time noise management level

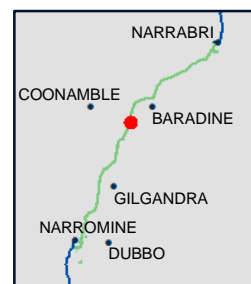
Noise level (dBA L_{Aeq} 15 minute)

30 - 35

35 - 40

40 - 45

45 - 50



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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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

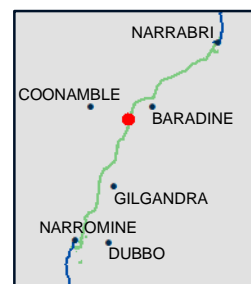
Residential

Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

30 - 35

35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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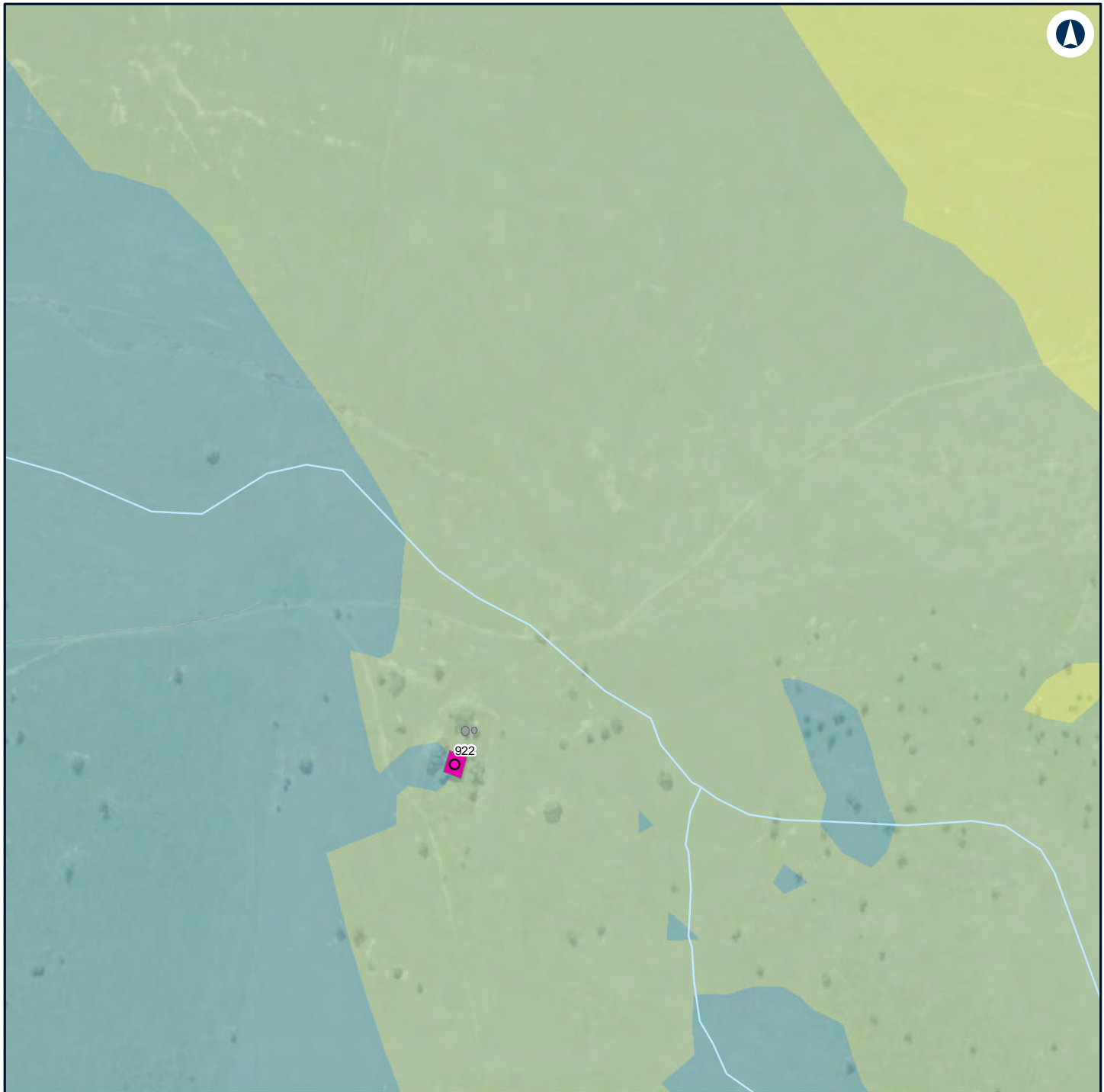
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LEGEND

Structure type

- Residential
- Other
- Residential

Noise level (dBA L_{Aeq} 15 minute)

- 35 - 40
- 40 - 45

■ 45 - 50



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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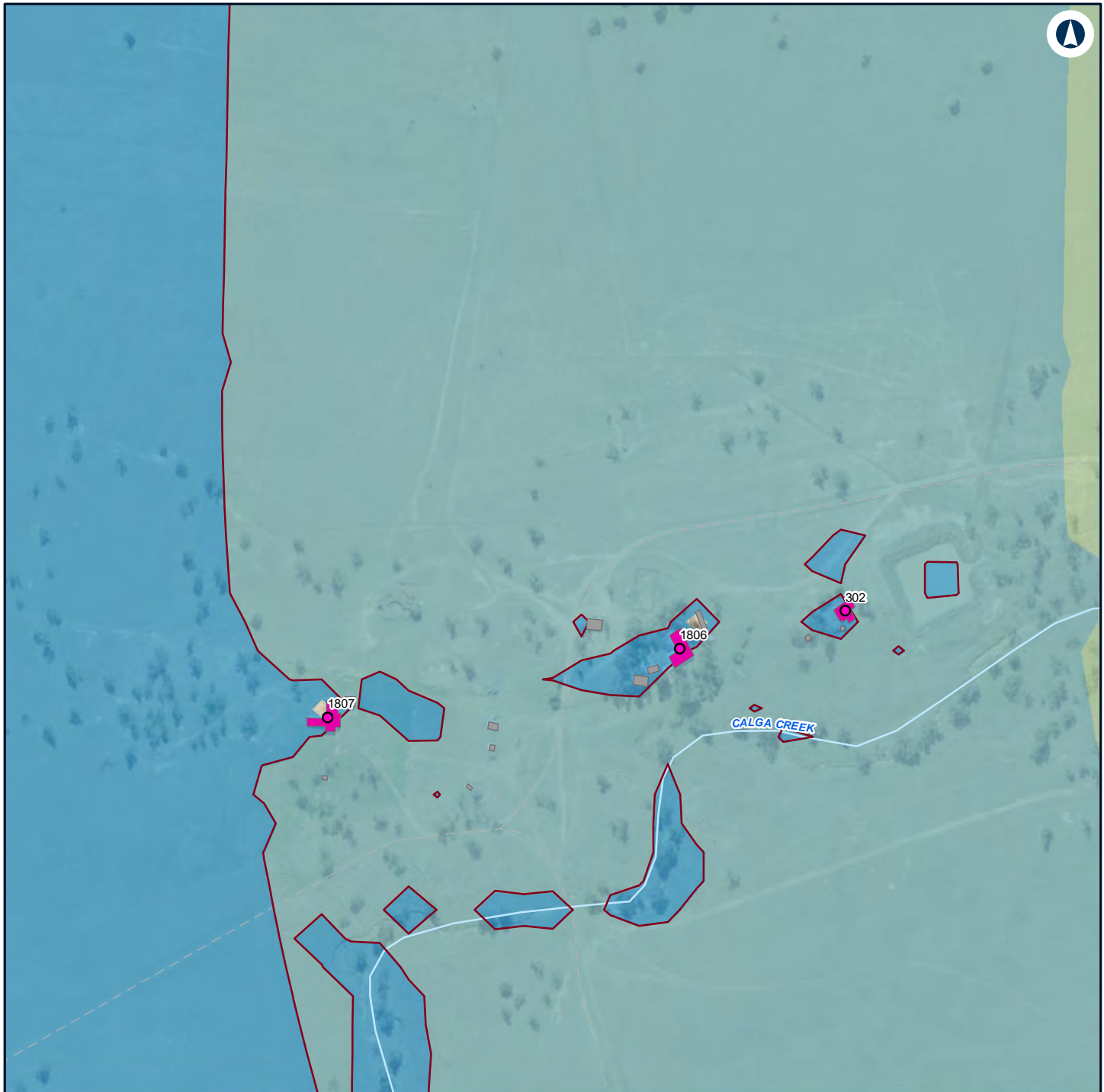
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LEGEND

Structure type

● Residential

■ Other

■ Residential

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40

■ 40 - 45



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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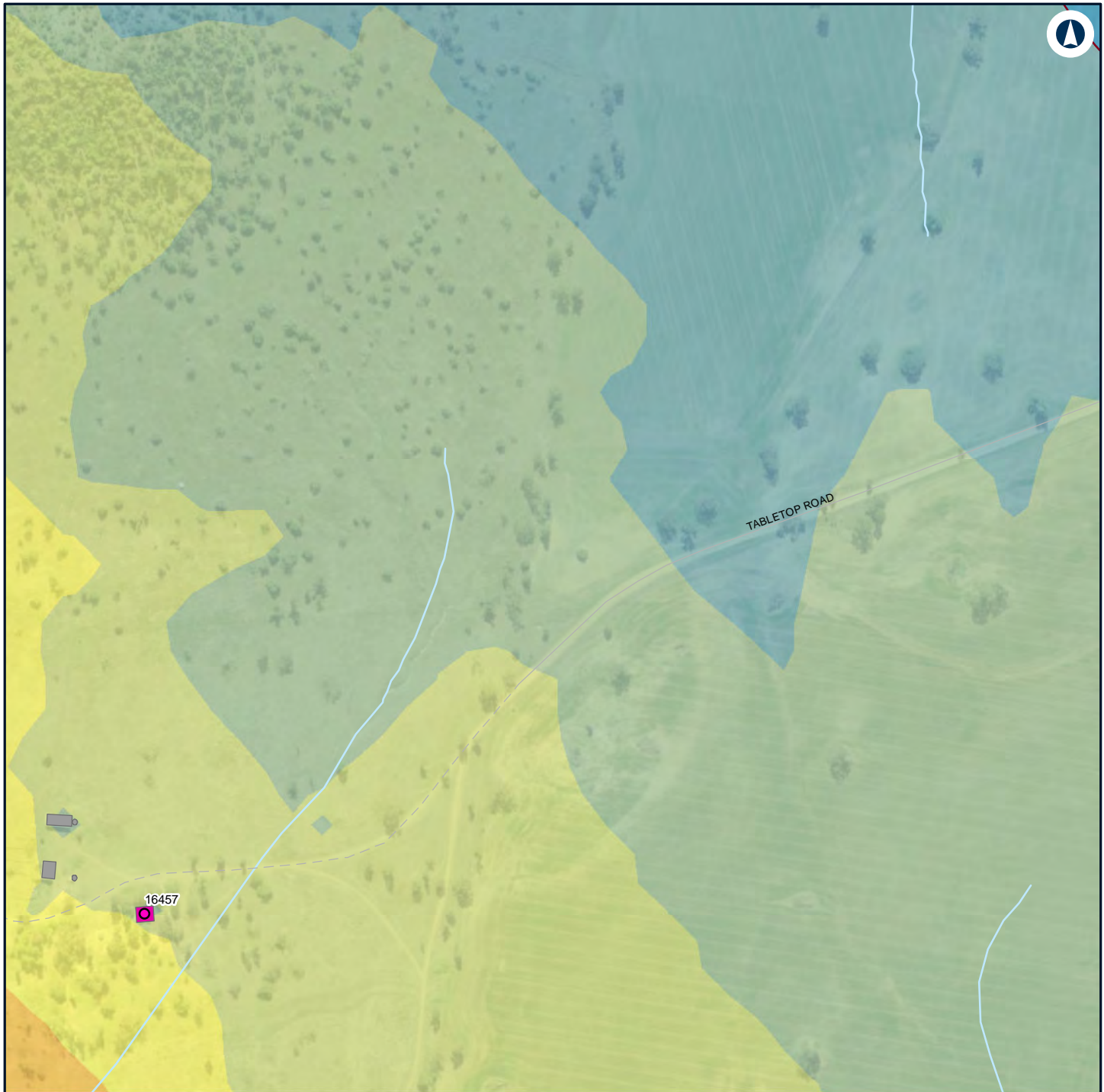
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LEGEND

Structure type

● Residential

■ Other

■ Residential

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40

■ 40 - 45

■ 45 - 50

■ 50 - 55

■ 55 - 60



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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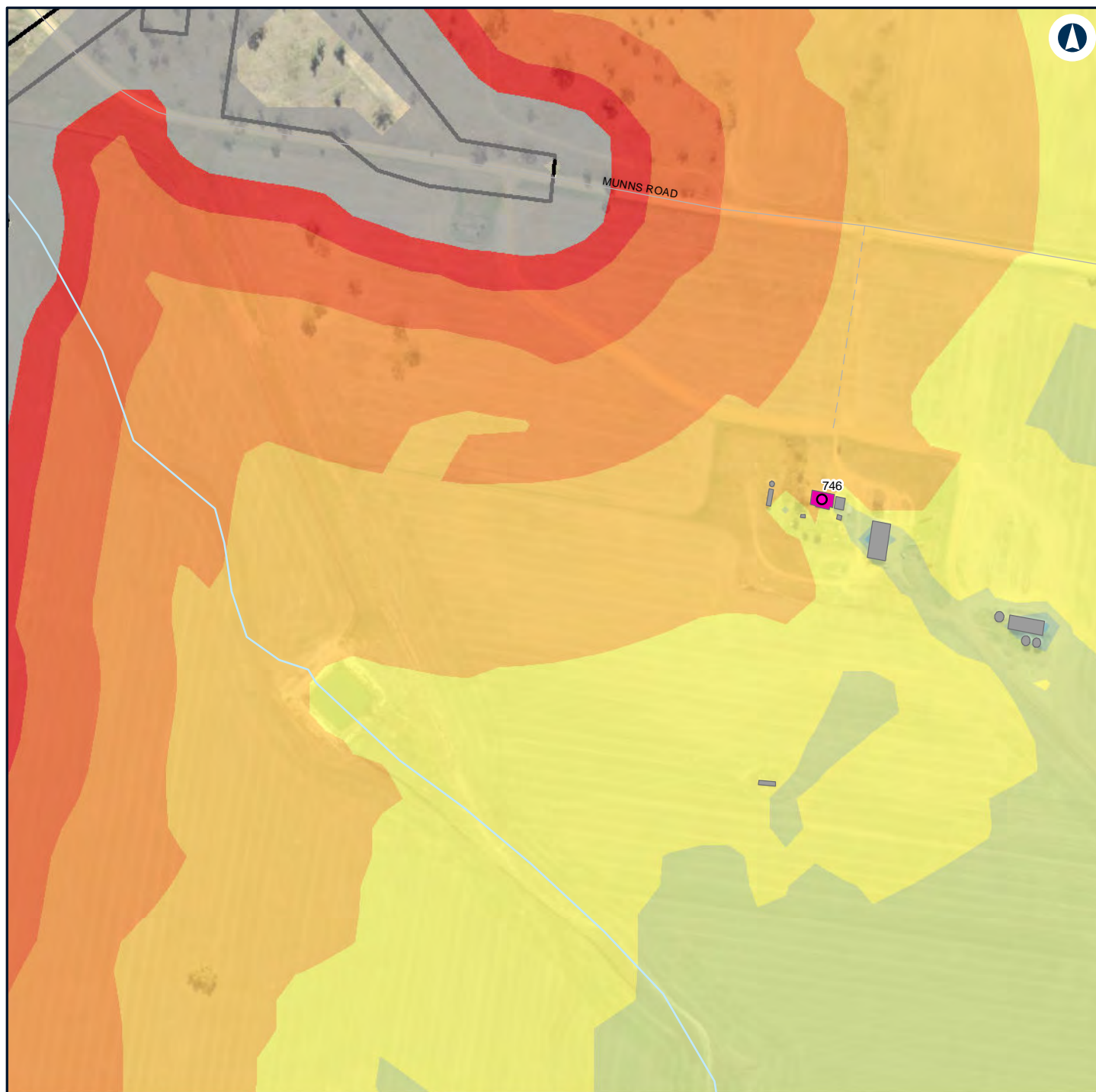
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LEGEND

Construction footprint

Structure type

Residential

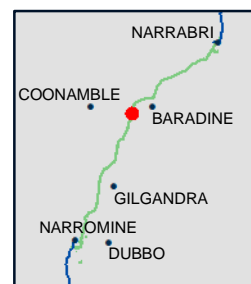
Other

Residential

Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

35 - 40	65 - 70
40 - 45	70 - 75
45 - 50	> 75
50 - 55	
55 - 60	
60 - 65	



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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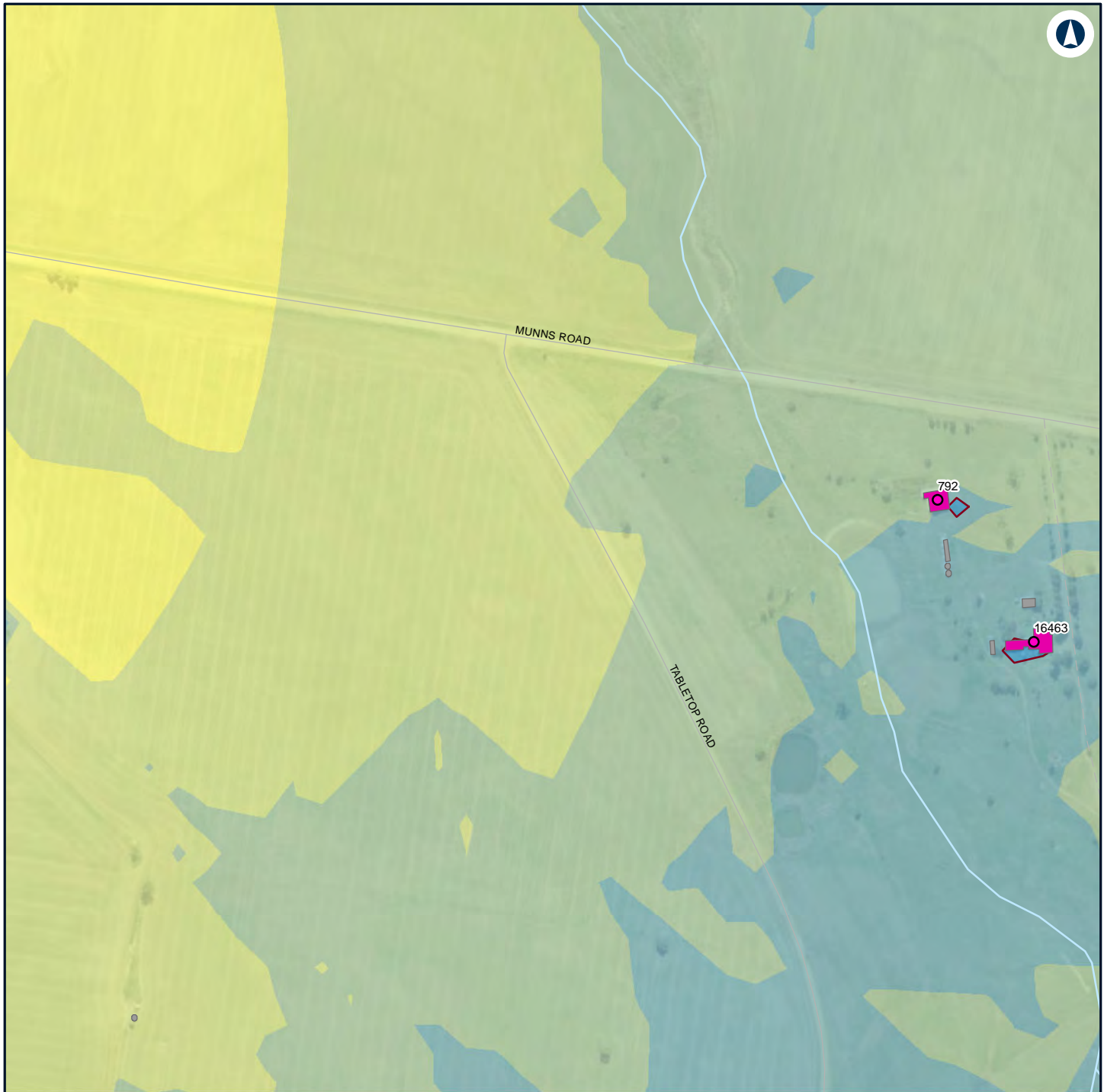
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LEGEND

Structure type

● Residential

■ Other

■ Residential

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40

■ 40 - 45

■ 45 - 50

■ 50 - 55



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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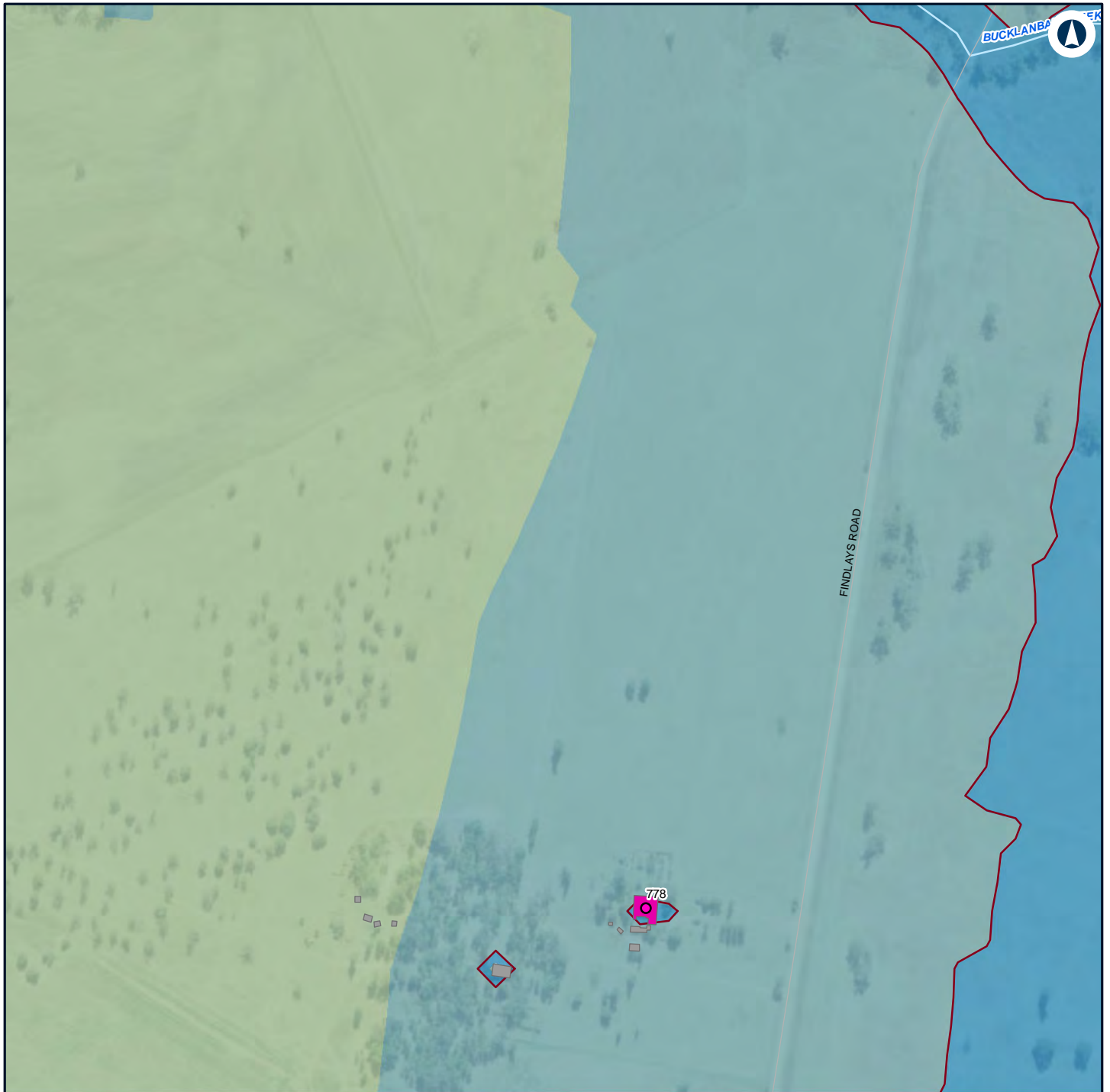
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LEGEND

Structure type

Residential

Other

Residential

Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

30 - 35

35 - 40

40 - 45



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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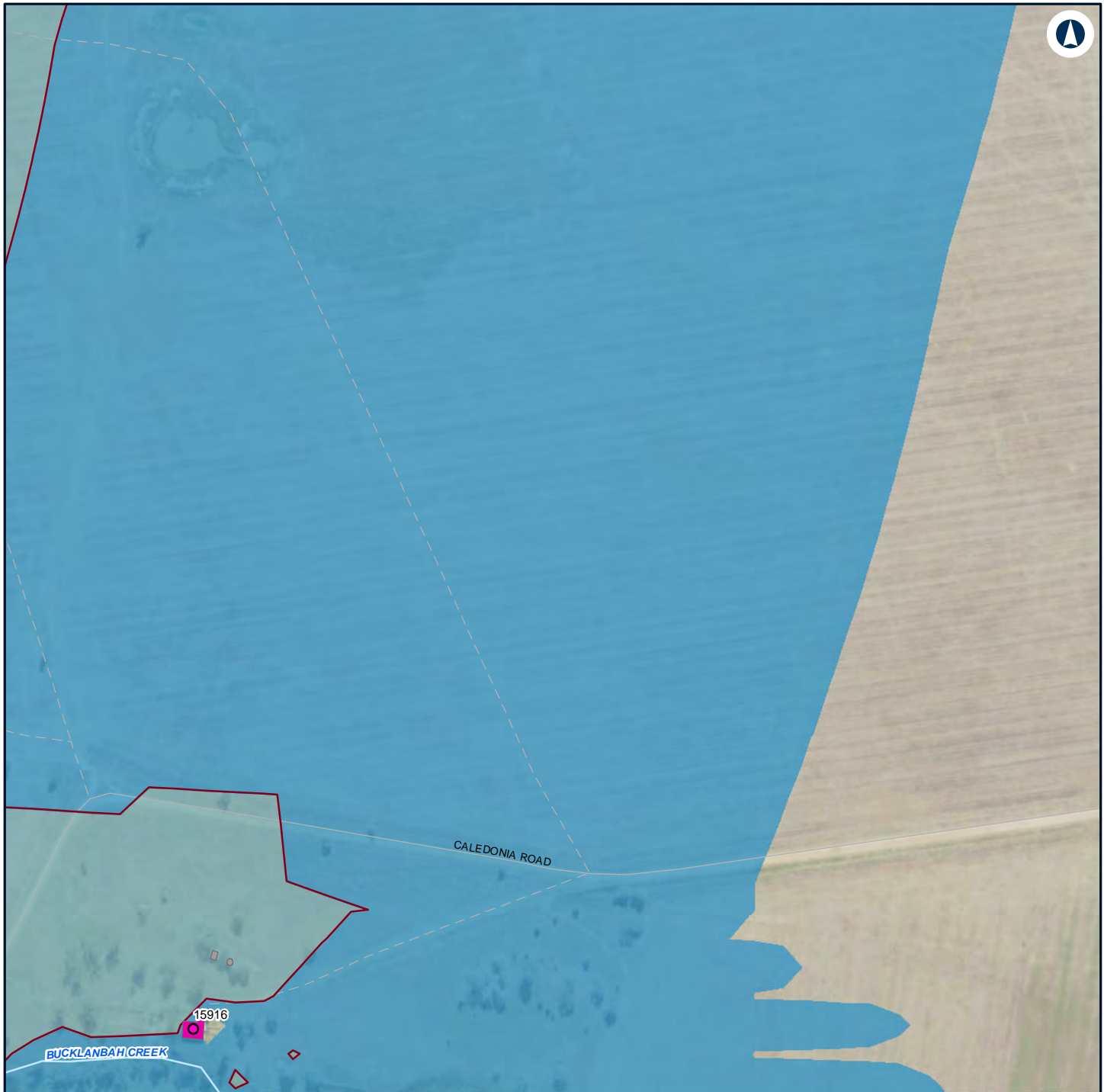
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LEGEND

Structure type

Residential

Other

Residential

Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

30 - 35

35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
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Structure type

● Residential

■ Other

■ Residential

— Night-time noise management level

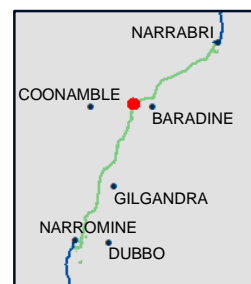
Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40

■ 40 - 45

■ 45 - 50



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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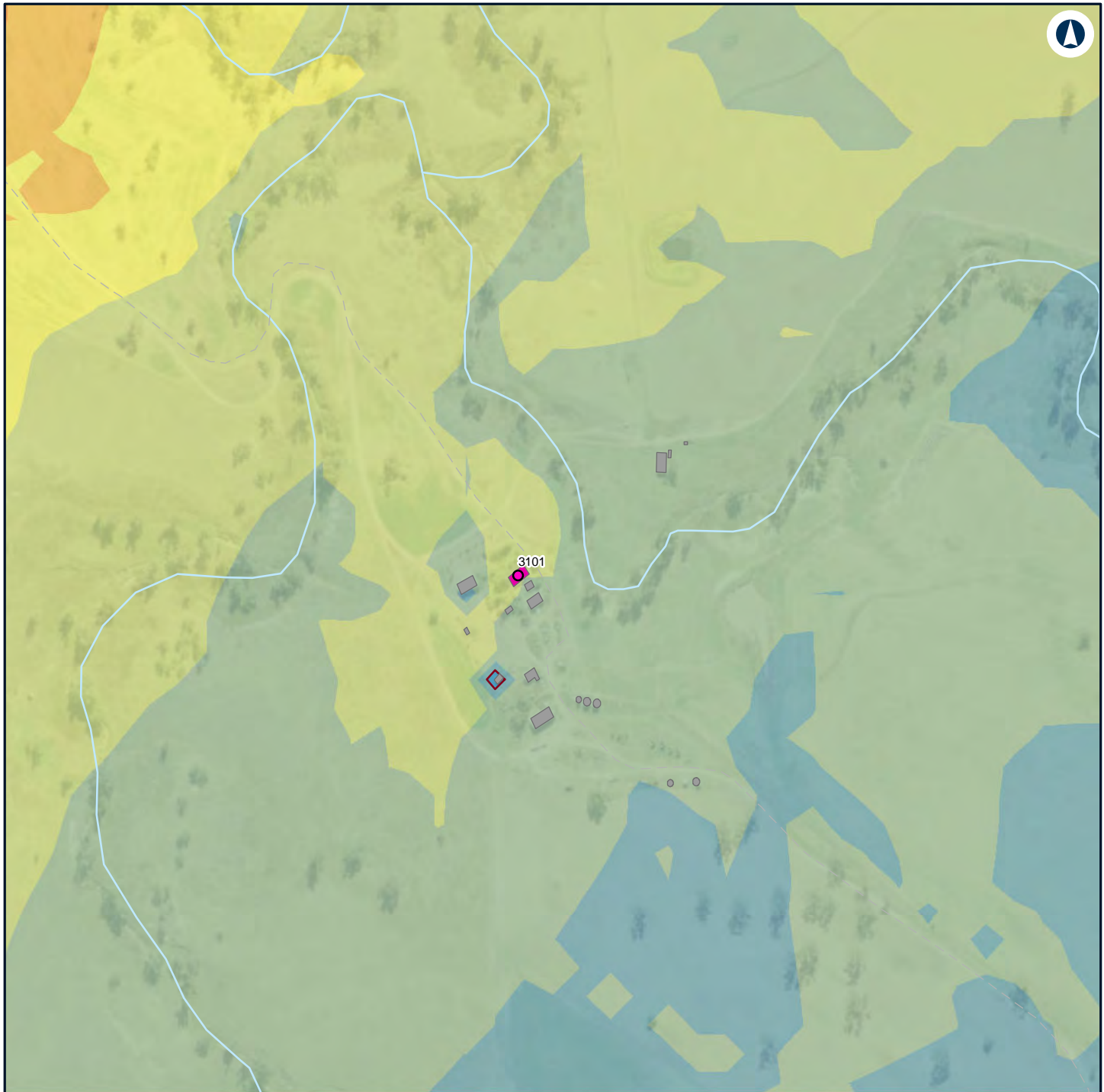
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LEGEND

Structure type

● Residential

■ Other

■ Residential

— Night-time noise management level

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 RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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