

TECHNICAL REPORT

INLAND
RAIL 

3

Flooding and hydrology assessment

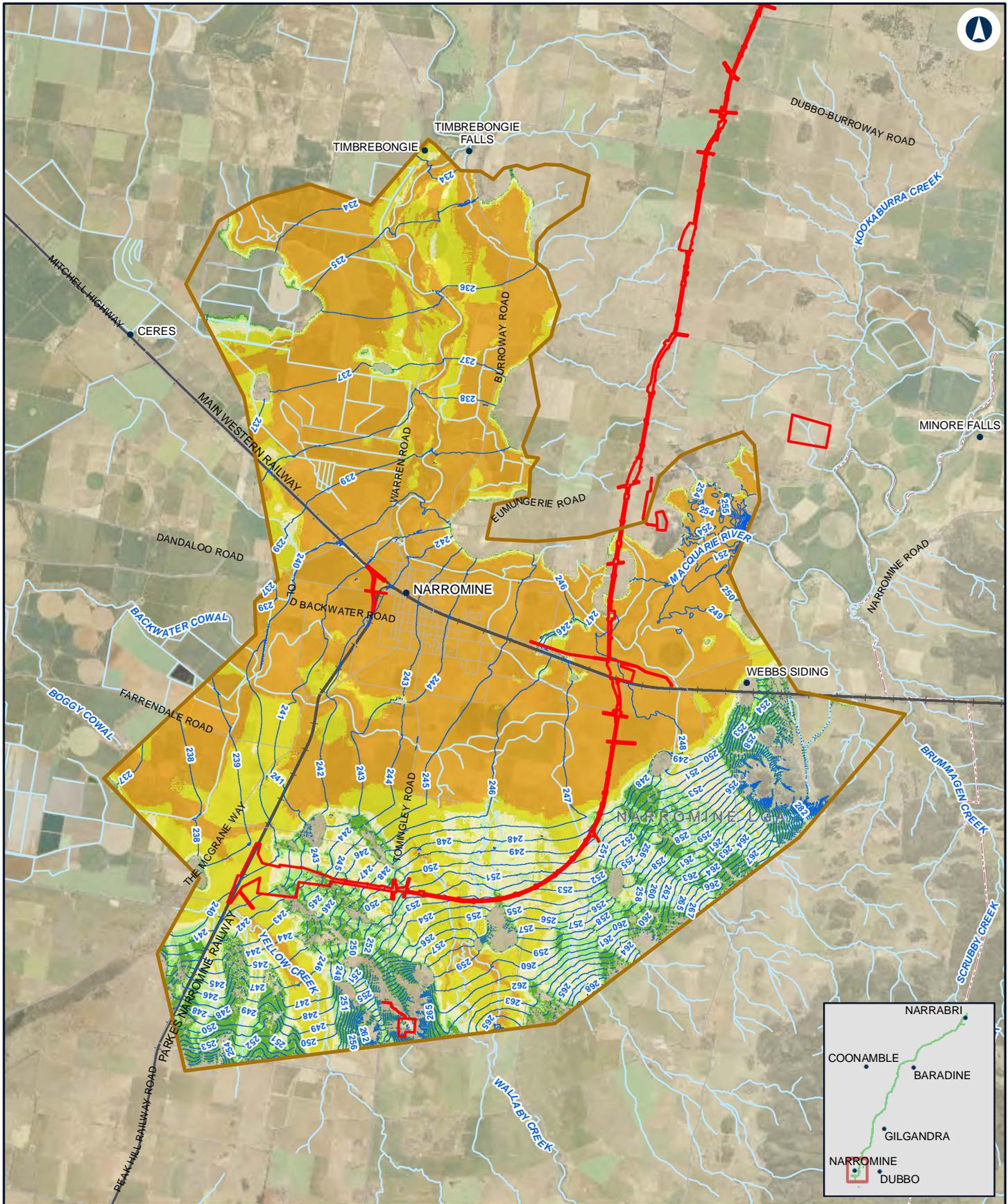
PART 4 OF 12

Appendix D continued...

NARROMINE TO NARRABRI ENVIRONMENTAL IMPACT STATEMENT

**ARTC**

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



NARROMINE TO NARRABRI

Existing peak depth / level (contour) - PMF -NFM

Appendix D - Figure 1.8a

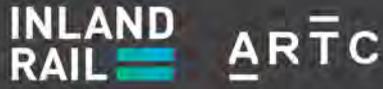


Coordinate System: GDA 1994 MGA Zone 55
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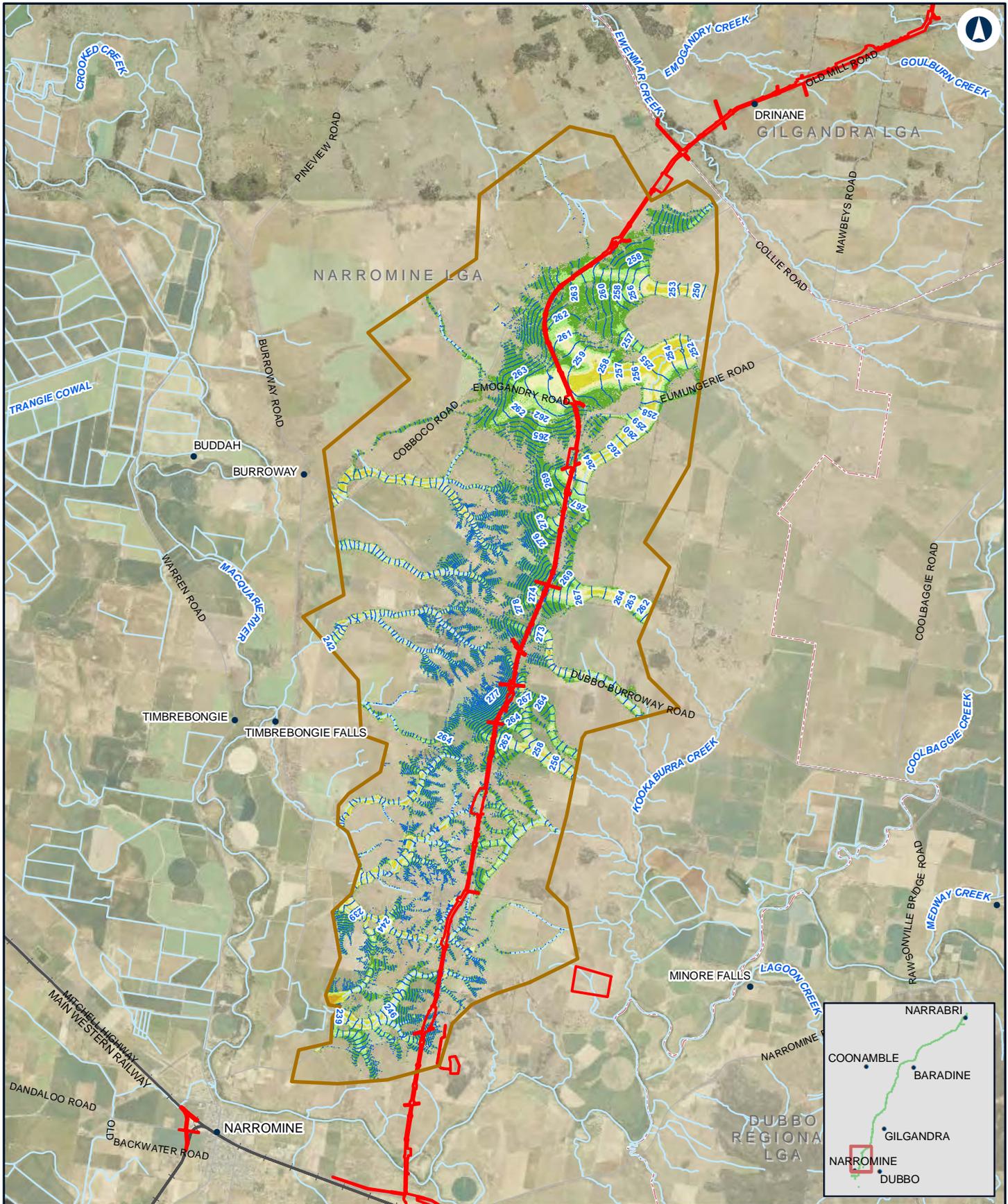
Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:140,120
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
- Flood level (mAHD)
- Flood depth**
- 0.0m - 0.25m
- 0.25m - 0.5m
- 0.5m - 1.0m
- 1.0m - 2.0m
- > 2.0m



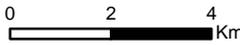
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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - PMF -N2N14

Appendix D - Figure 1.8b



LEGEND

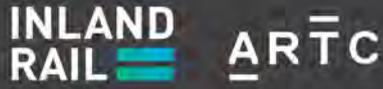
- The proposal site
- Model boundary
- Flood level (mAHD)
- 1.0m - 2.0m
- > 2.0m

Flood depth

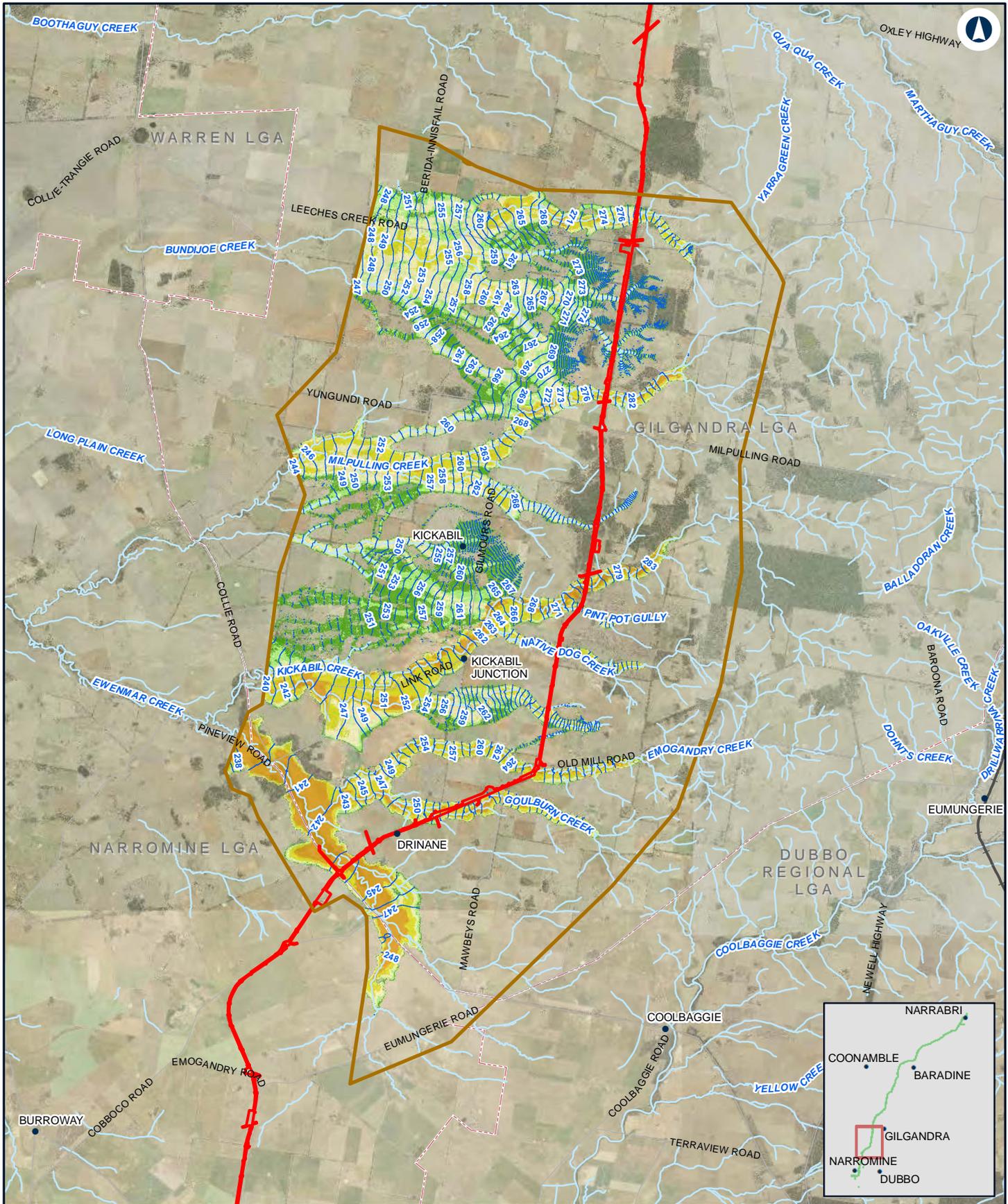
- 0.0m - 0.25m
- 0.25m - 0.5m
- 0.5m - 1.0m

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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:150,770
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD



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NARROMINE TO NARRABRI Existing peak depth / level (contour) - PMF -N2N13 Appendix D - Figure 1.8c

0 2.5 5 Km

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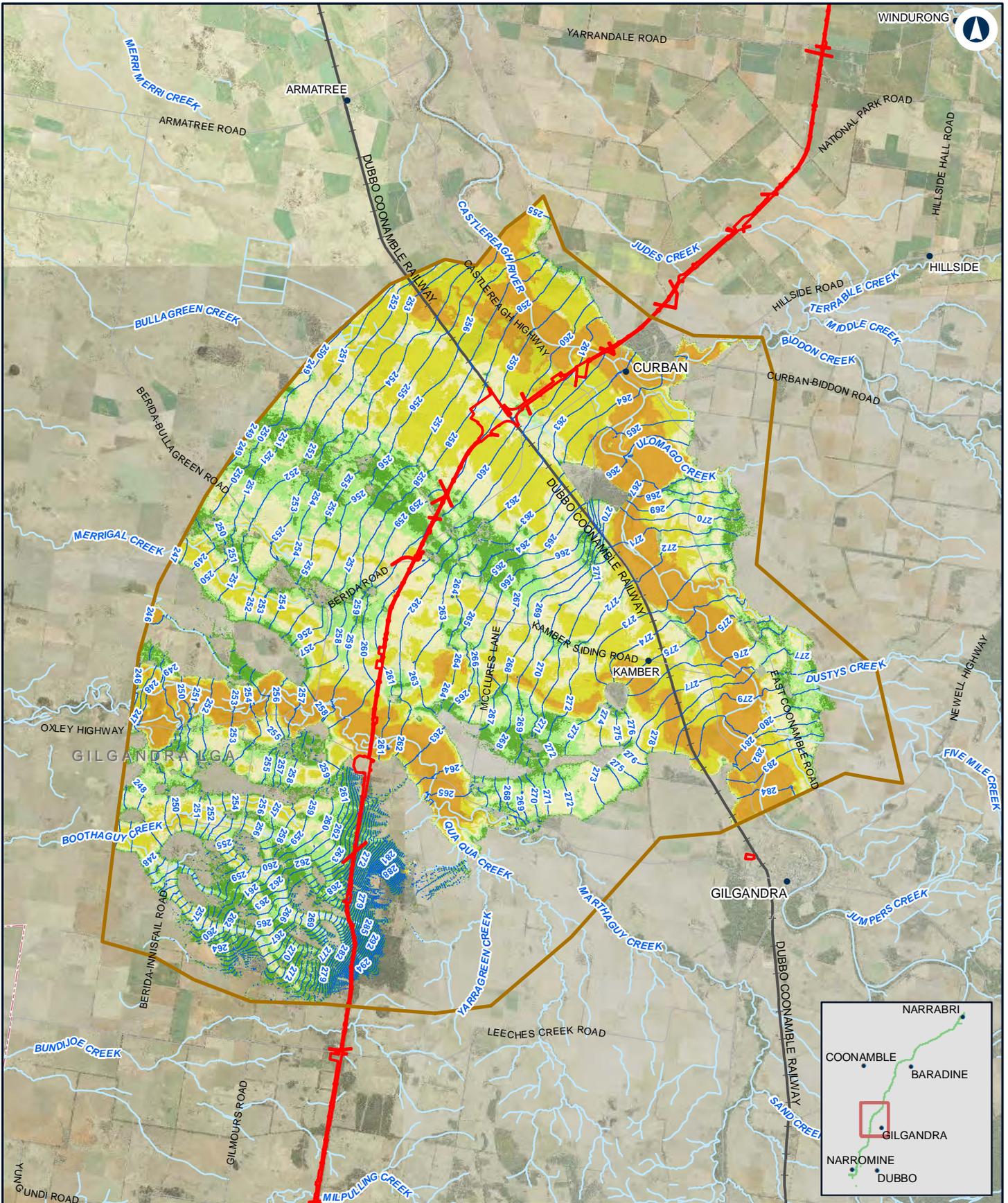
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:187,710
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- LEGEND**
- The proposal site
 - Model boundary
 - Flood level (mAHD)
- Flood depth**
- 0.0m - 0.25m
 - 0.25m - 0.5m
 - 0.5m - 1.0m
 - 1.0m - 2.0m
 - > 2.0m

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - PMF -N2N11N12

Appendix D - Figure 1.8d



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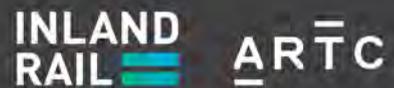
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:198,370

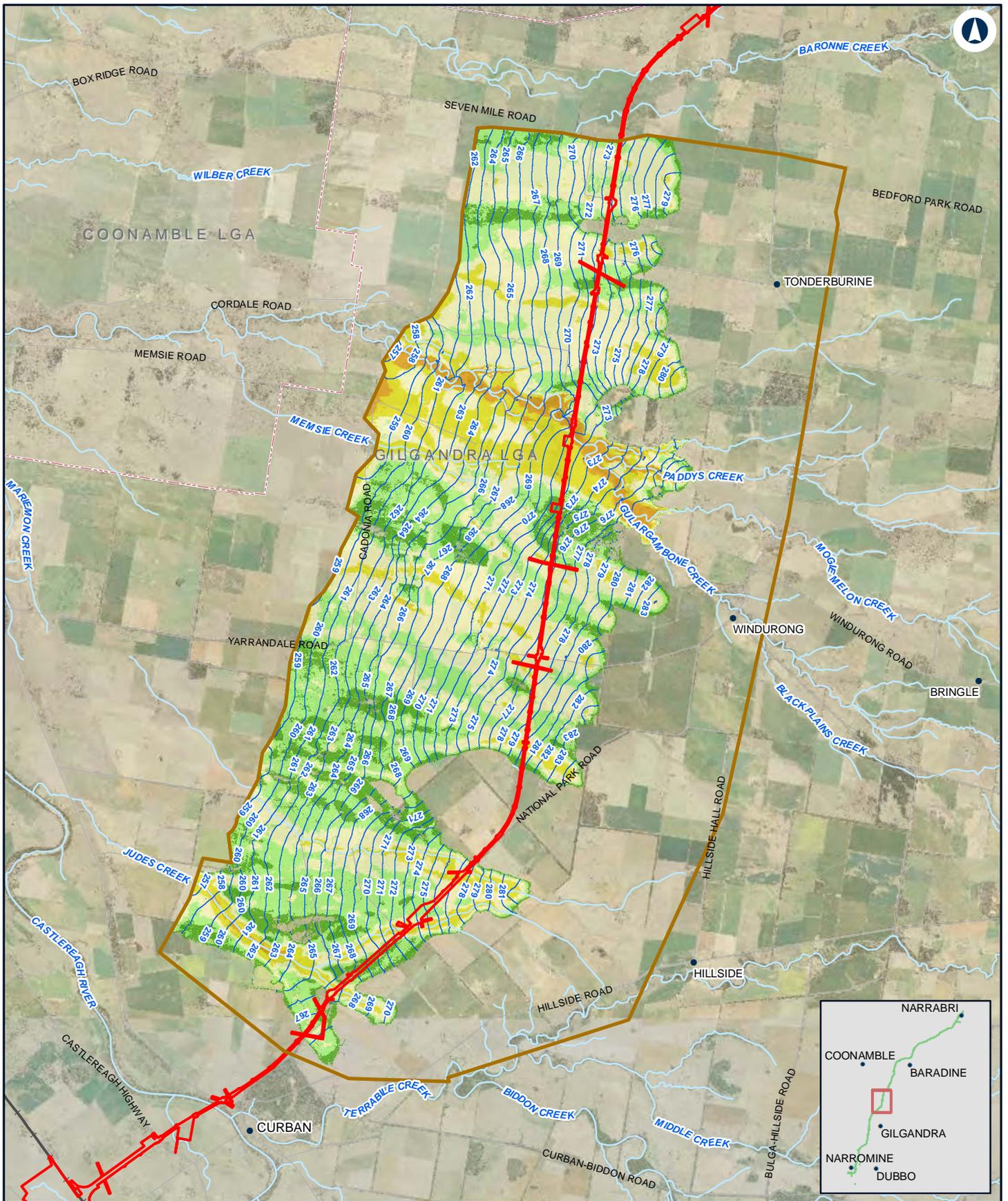
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
- Flood level (mAHD)
- Flood depth**
- 0.0m - 0.25m
- 0.25m - 0.5m
- 0.5m - 1.0m
- 1.0m - 2.0m
- > 2.0m



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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - PMF -N2N10

Appendix D - Figure 1.8e



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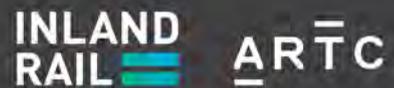
ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information contained within this GIS map.

Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:135,210

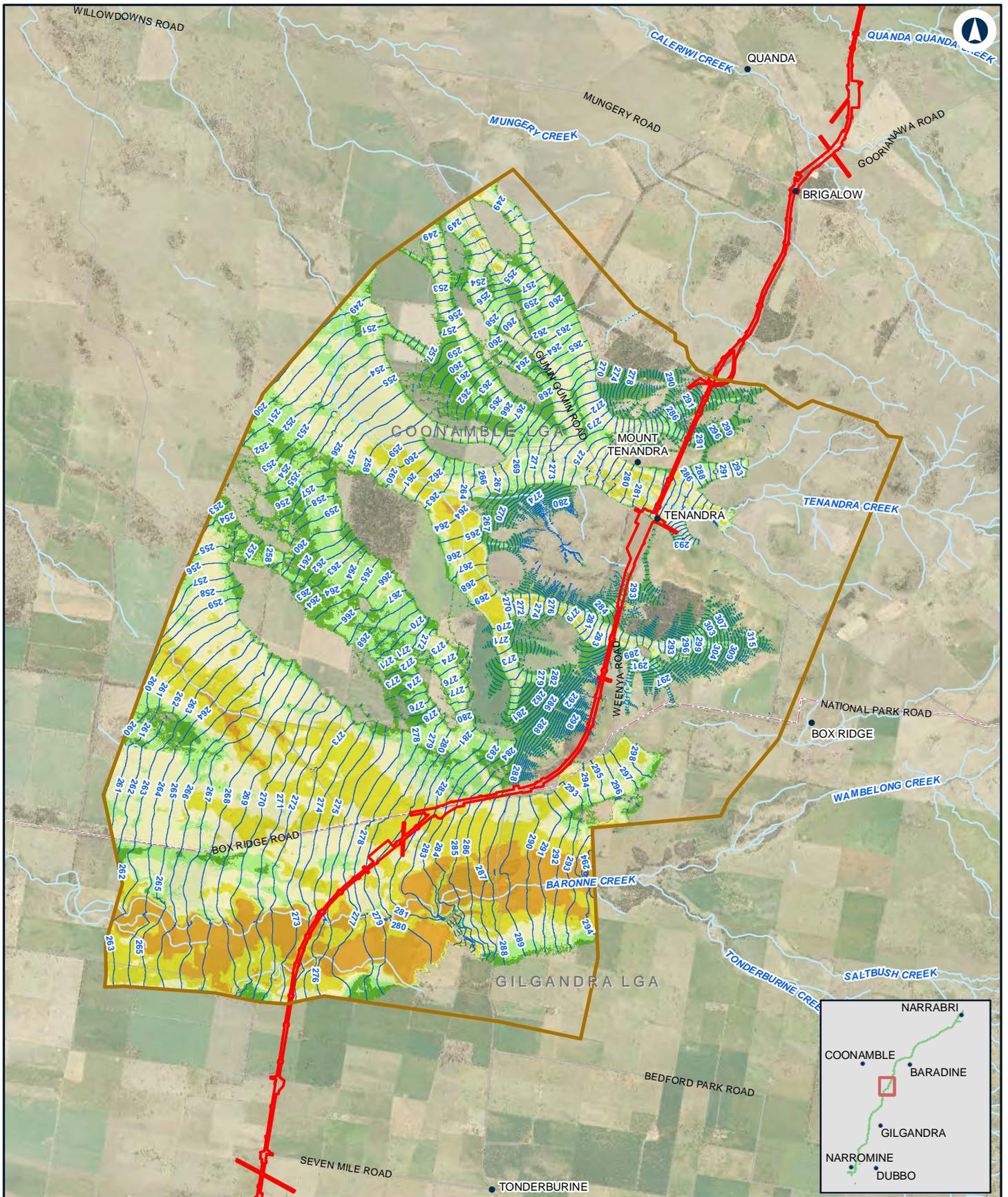
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
- Flood level (mAHD)
- Flood depth**
- 0.0m - 0.25m
- 0.25m - 0.5m
- 0.5m - 1.0m
- 1.0m - 2.0m
- > 2.0m



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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - PMF -N2N9

Appendix D - Figure 1.8f



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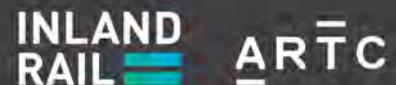
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:104,540

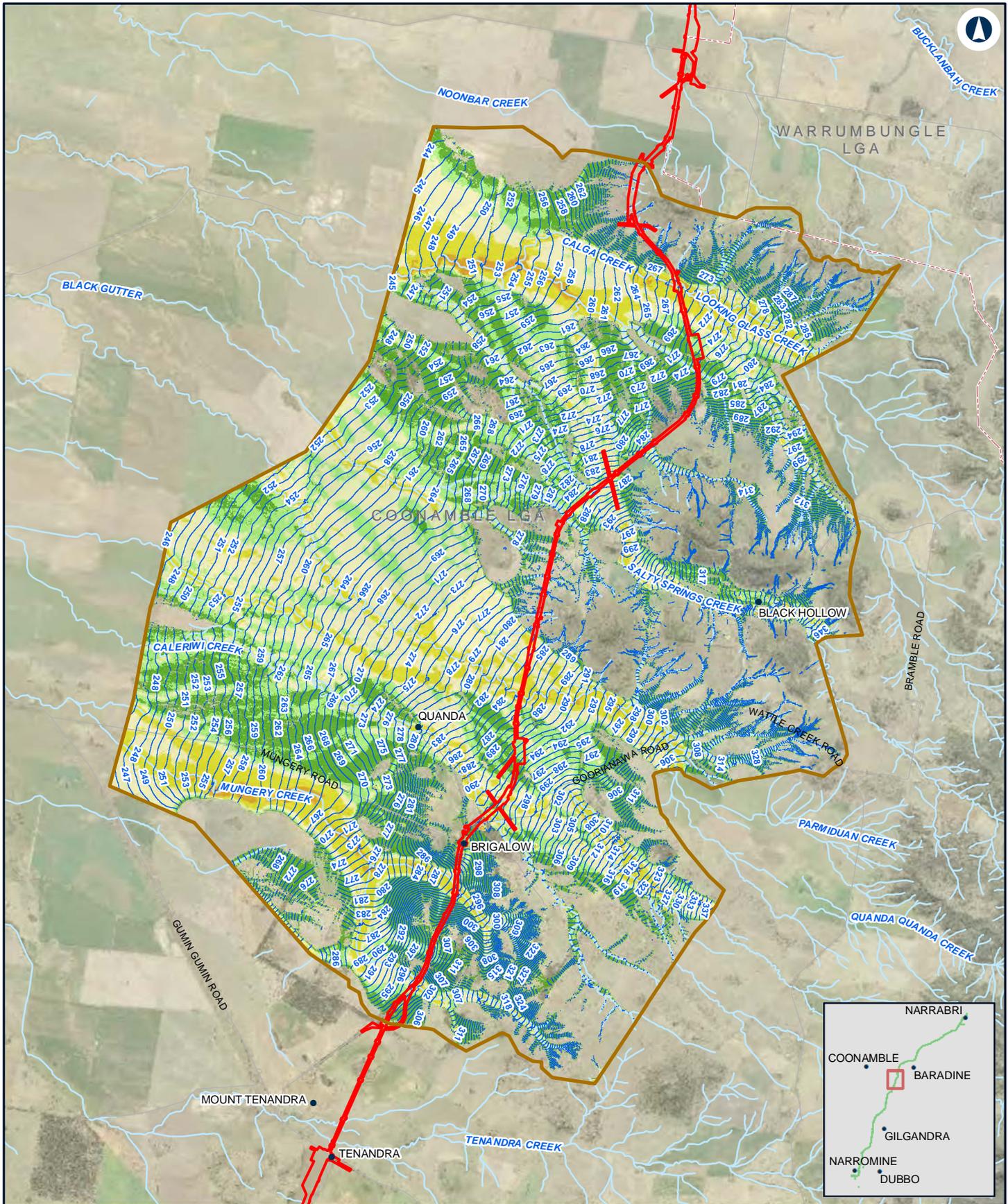
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
- Flood level (mAHD)
- Flood depth**
- 0.0m - 0.25m
- 0.25m - 0.5m
- 0.5m - 1.0m
- 1.0m - 2.0m
- > 2.0m



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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - PMF -N2N8

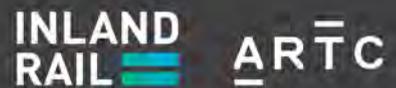
Appendix D - Figure 1.8g



LEGEND

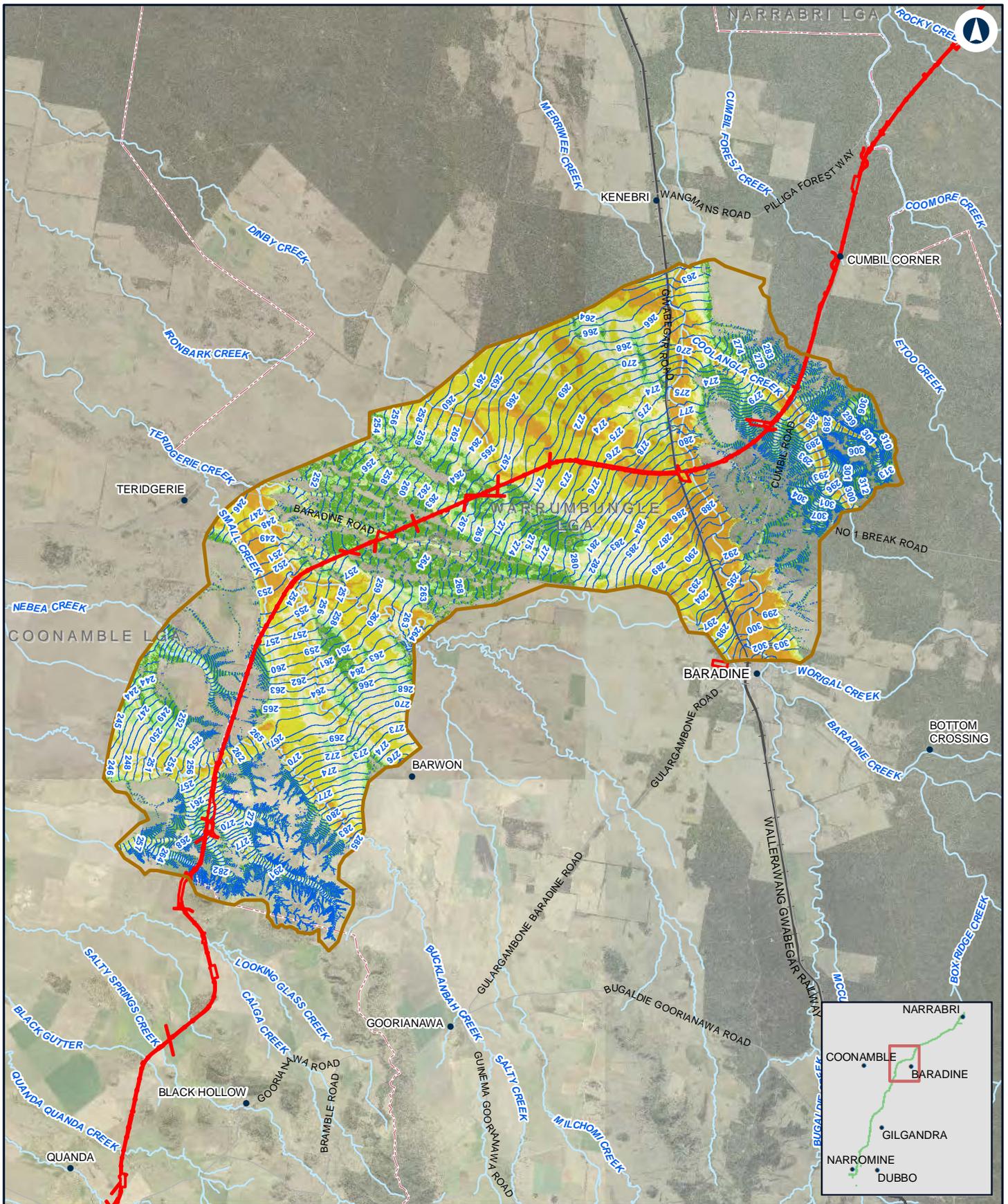
- The proposal site
- Model boundary
- Flood level (mAHD)
- Flood depth**
- 0.0m - 0.25m
- 0.25m - 0.5m
- 0.5m - 1.0m
- 1.0m - 2.0m
- > 2.0m

Coordinate System: GDA 1994 MGA Zone 55
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 Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:109,840
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD



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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - PMF -N2N7

Appendix D - Figure 1.8h



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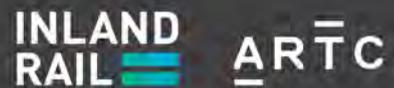
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:212,360

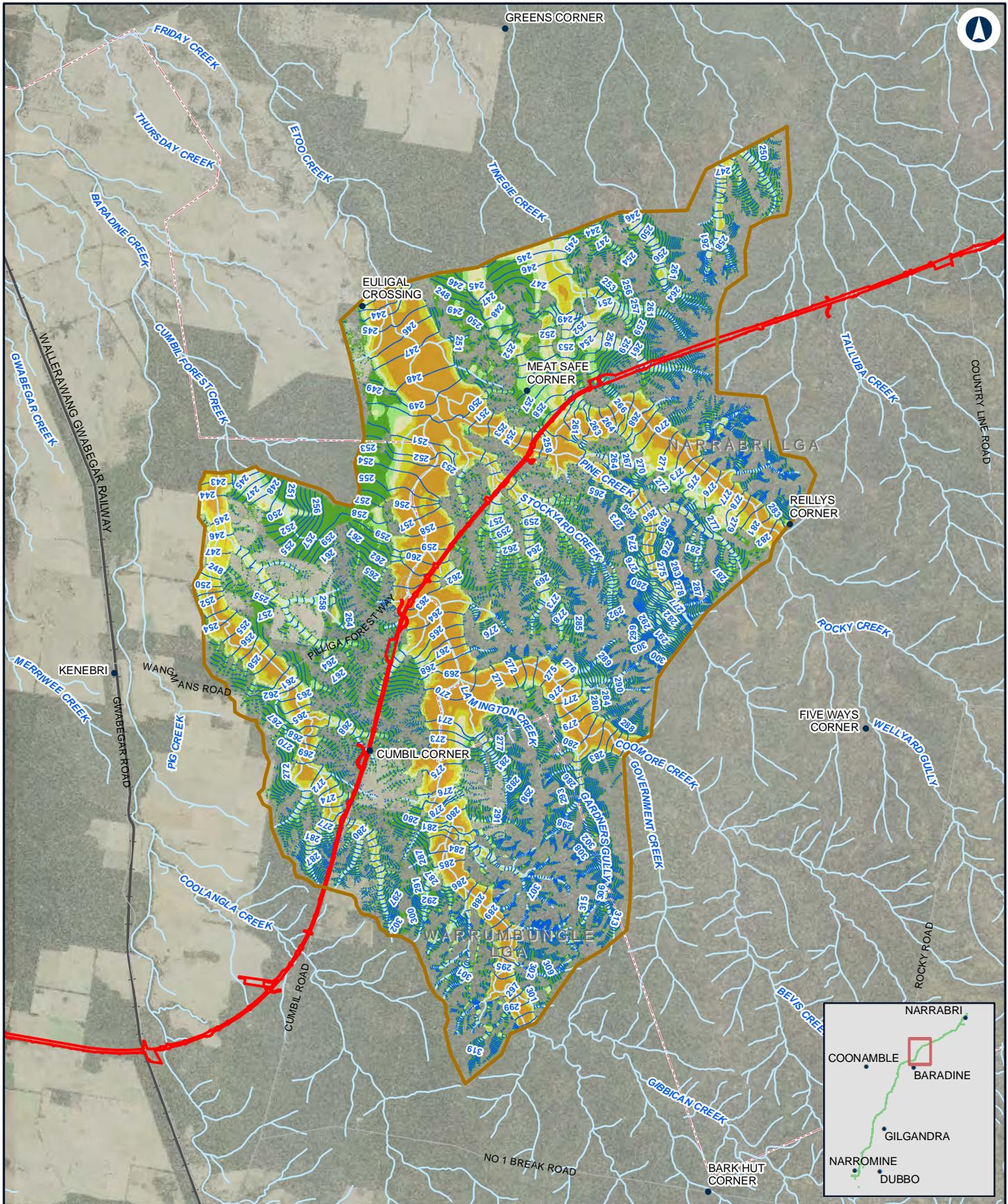
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
- Flood level (mAHD)
- Flood depth**
- 0.0m - 0.25m
- 0.25m - 0.5m
- 0.5m - 1.0m
- 1.0m - 2.0m
- > 2.0m



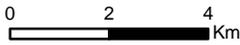
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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - PMF -N2N6

Appendix D - Figure 1.8i

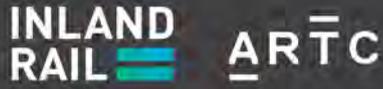


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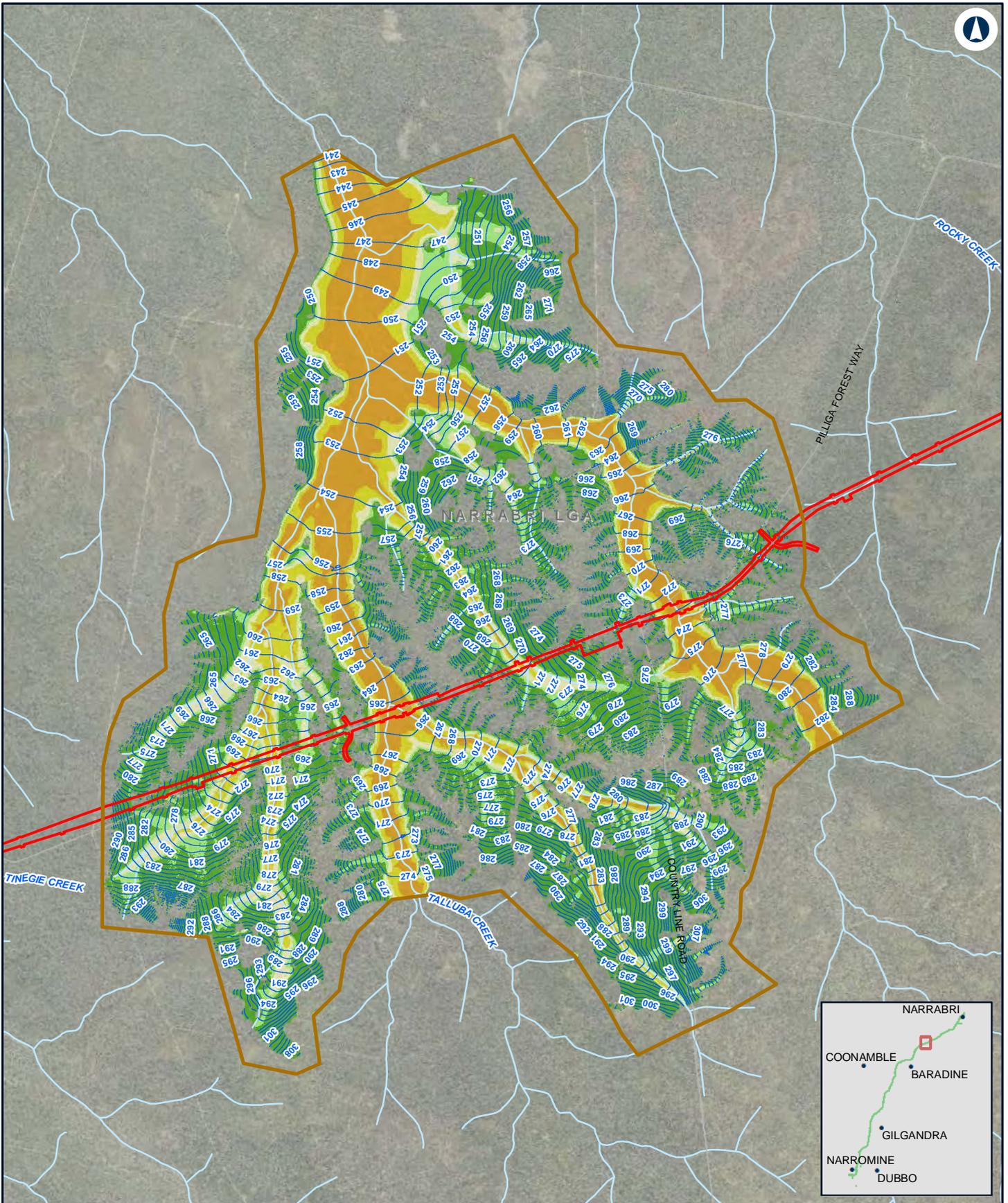
Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:153,300
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
- Flood level (mAHD)
- Flood depth
- 0.0m - 0.25m
- 0.25m - 0.5m
- 0.5m - 1.0m
- 1.0m - 2.0m
- > 2.0m



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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - PMF -N2N5

Appendix D - Figure 1.8j



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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:69,470

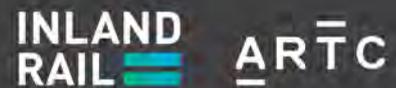
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

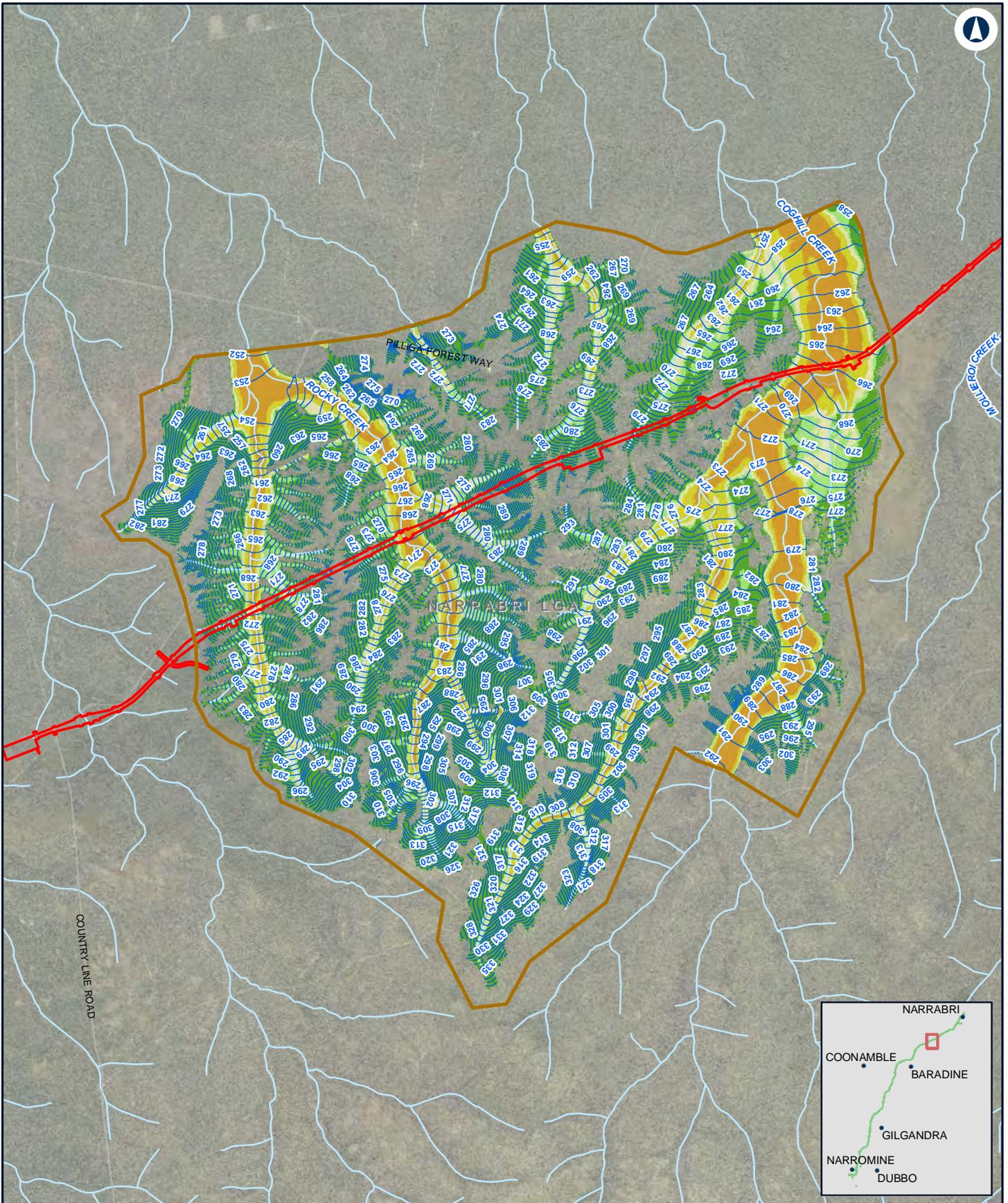
- The proposal site
- Model boundary
- Flood level (mAHD)
- 1.0m - 2.0m
- > 2.0m

Flood depth

- 0.0m - 0.25m
- 0.25m - 0.5m
- 0.5m - 1.0m



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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - PMF -N2N4

Appendix D - Figure 1.8k



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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:80,540

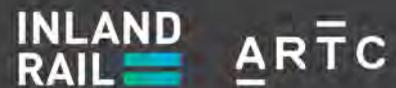
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

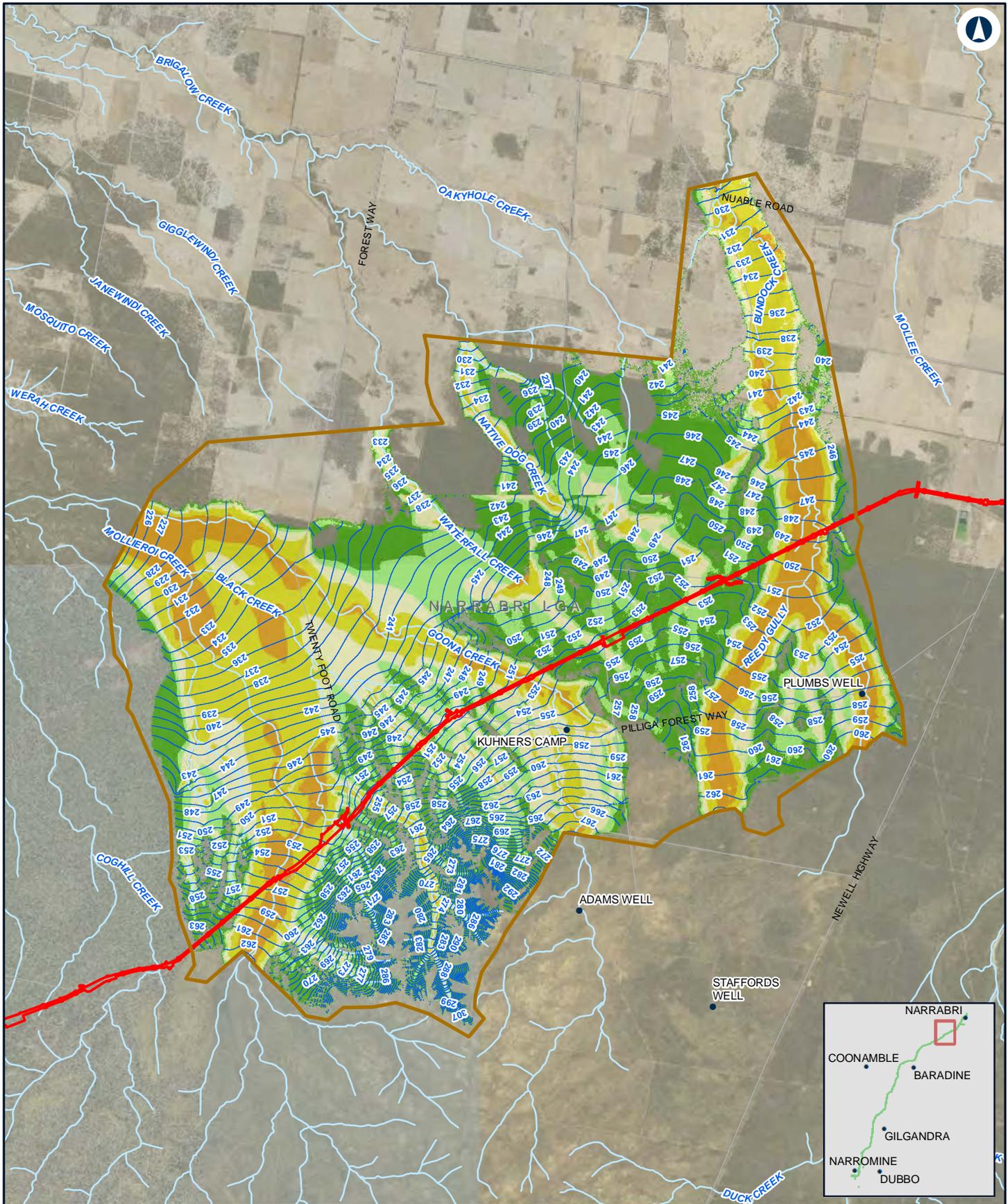
- The proposal site
- Model boundary
- Flood level (mAHD)
- 1.0m - 2.0m
- > 2.0m

Flood depth

- 0.0m - 0.25m
- 0.25m - 0.5m
- 0.5m - 1.0m



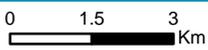
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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - PMF -N2N23

Appendix D - Figure 1.8I



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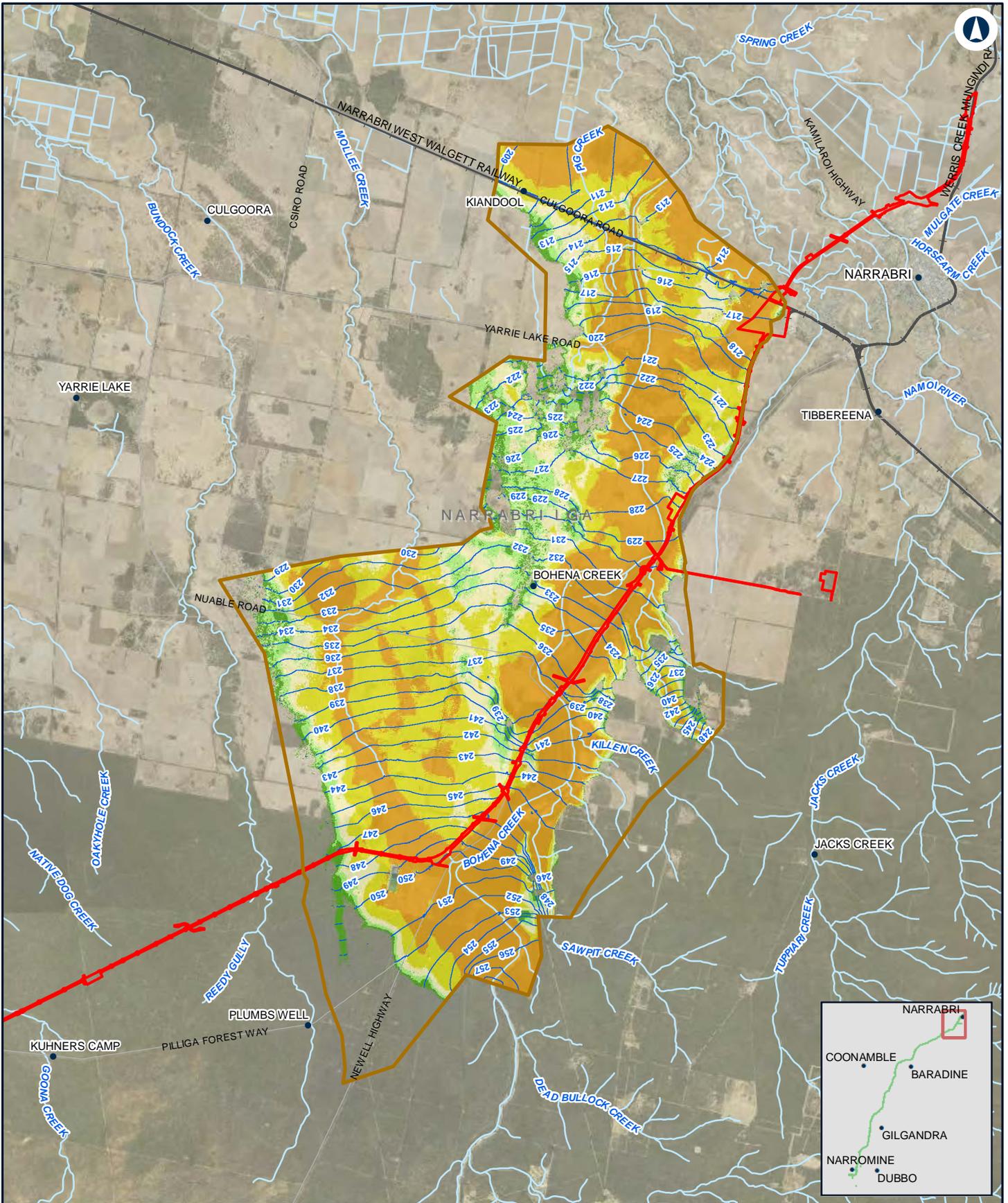
Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:139,650
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- LEGEND**
- The proposal site
 - Model boundary
 - Flood level (mAHD)
 - Flood depth**
 - 0.0m - 0.25m
 - 0.25m - 0.5m
 - 0.5m - 1.0m
 - 1.0m - 2.0m
 - > 2.0m



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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - PMF -N2N1

Appendix D - Figure 1.8m

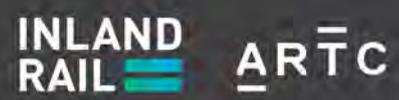


LEGEND

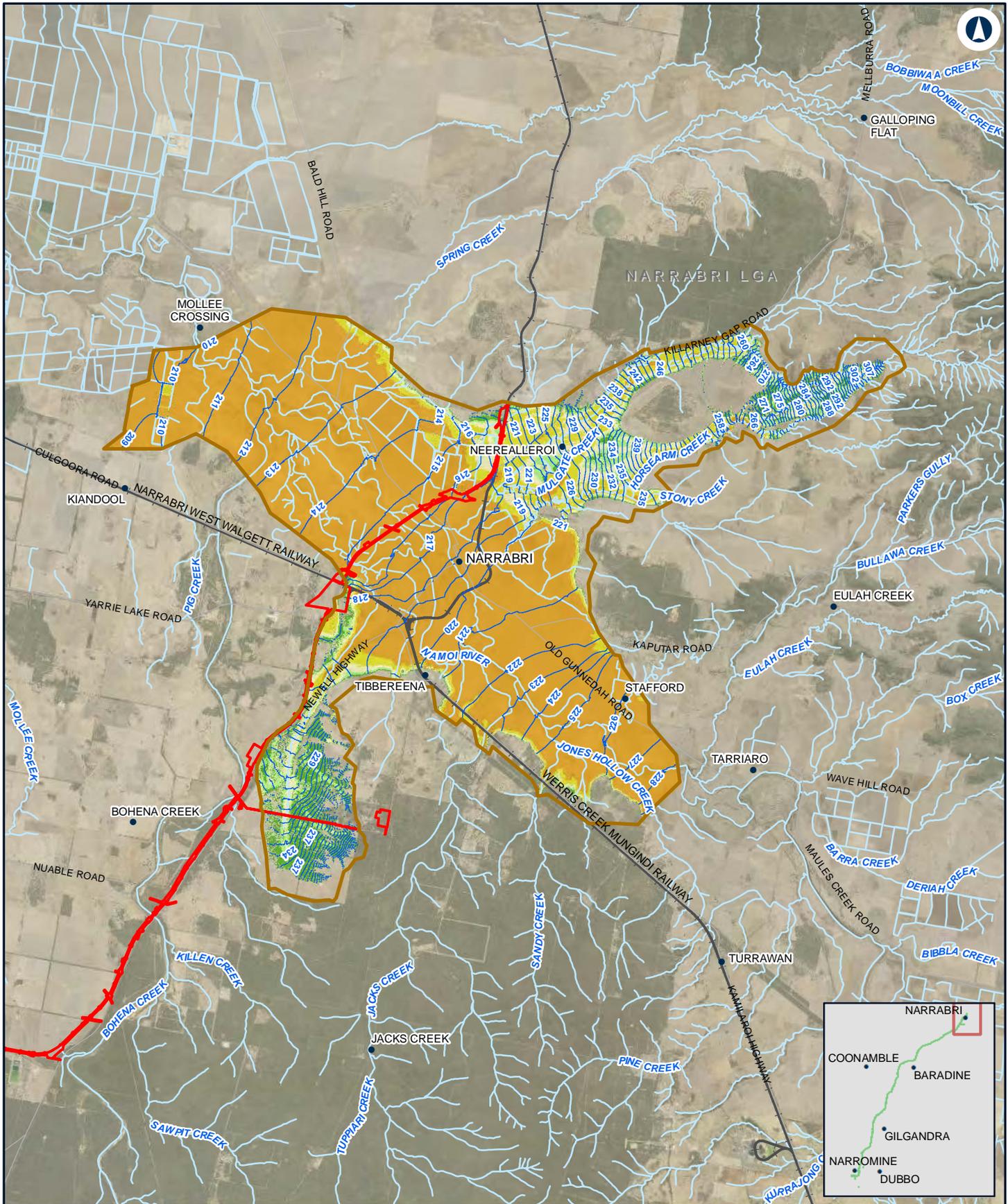
- The proposal site
- Model boundary
- Flood level (mAHD)
- 1.0m - 2.0m
- > 2.0m
- 0.0m - 0.25m
- 0.25m - 0.5m
- 0.5m - 1.0m

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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:161,380
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD



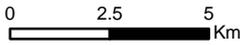
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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - PMF - Narrabri

Appendix D - Figure 1.8n



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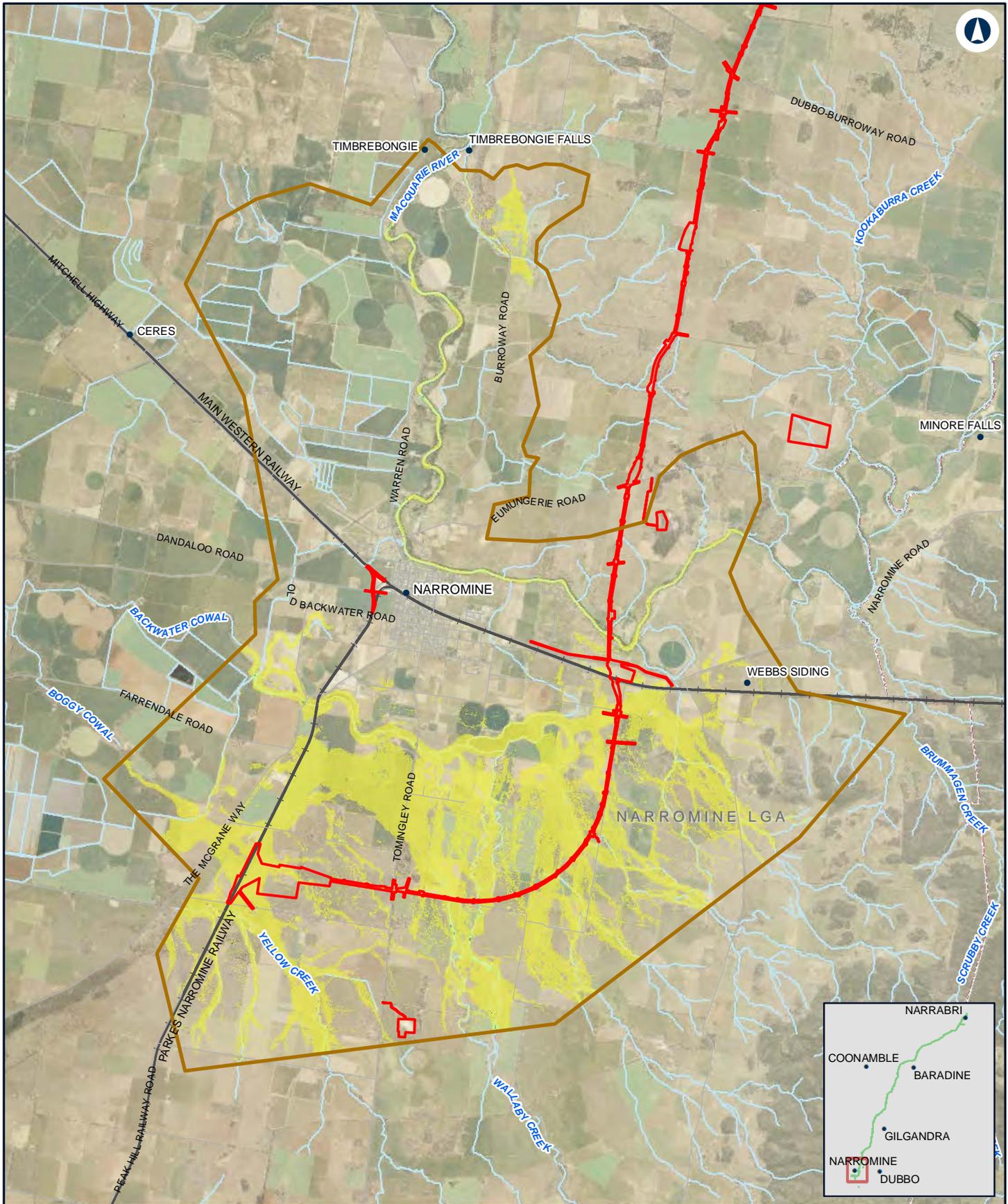
Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:190,920
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- LEGEND**
- The proposal site
 - Model boundary
 - Flood level (mAHD)
- Flood depth**
- 0.0m - 0.25m
 - 0.25m - 0.5m
 - 0.5m - 1.0m
 - 1.0m - 2.0m
 - > 2.0m



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NARROMINE TO NARRABRI

Existing peak velocity - 20% AEP - NFM

Appendix D Figure 2.1a

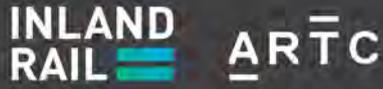


LEGEND

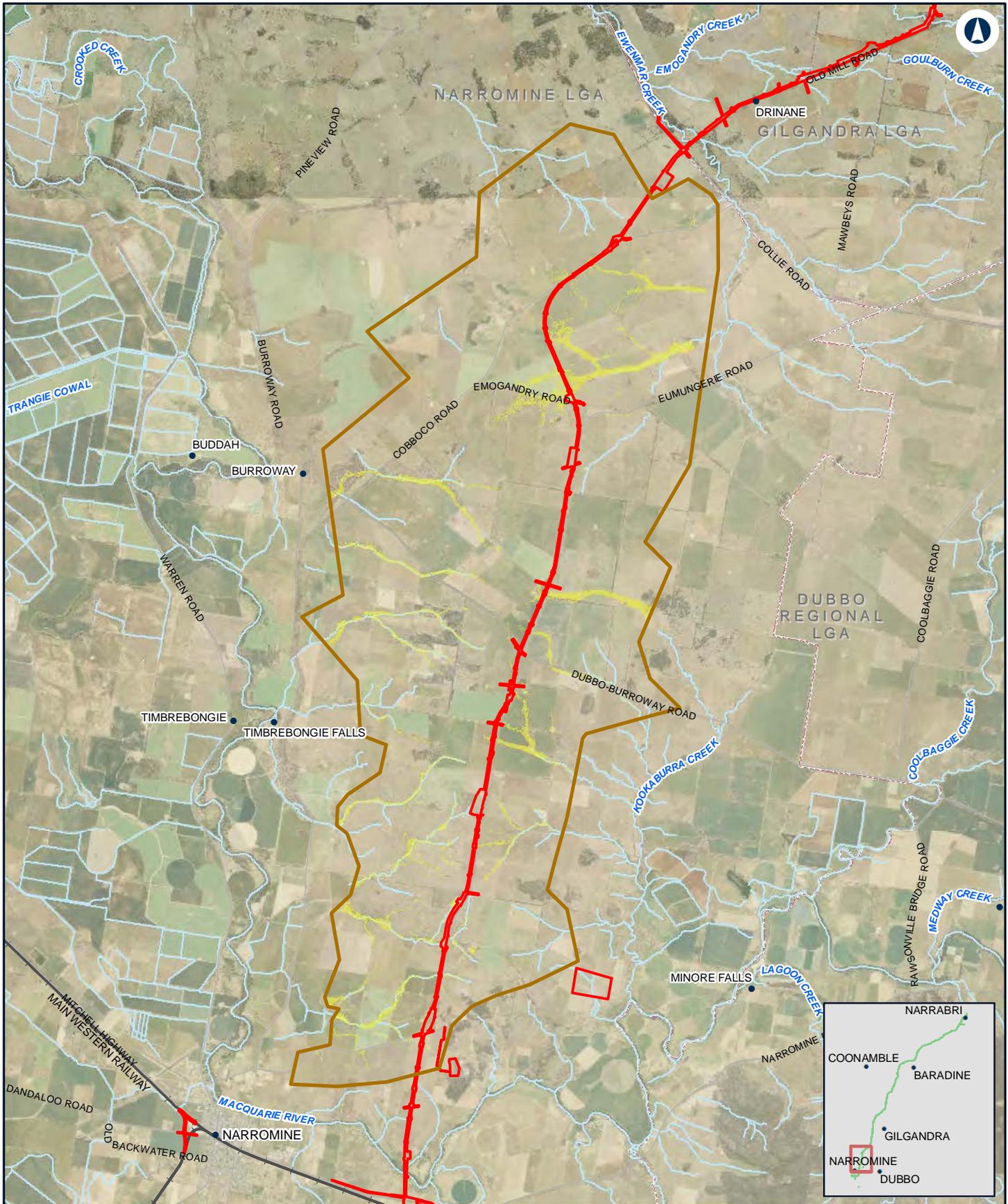
- The proposal site
- Model boundary
- Flood velocity**
- 0.0m/s - 1.0m/s
- 1.0m/s - 1.5m/s
- 1.5m/s - 2.0m/s
- > 2.0m/s

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 Author: JacobsGHD Scale: 1:140,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD



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NARROMINE TO NARRABRI Existing peak velocity - 20% AEP - N2N14

Appendix D Figure 2.1b

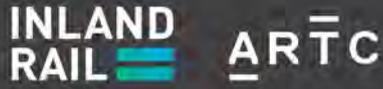


LEGEND

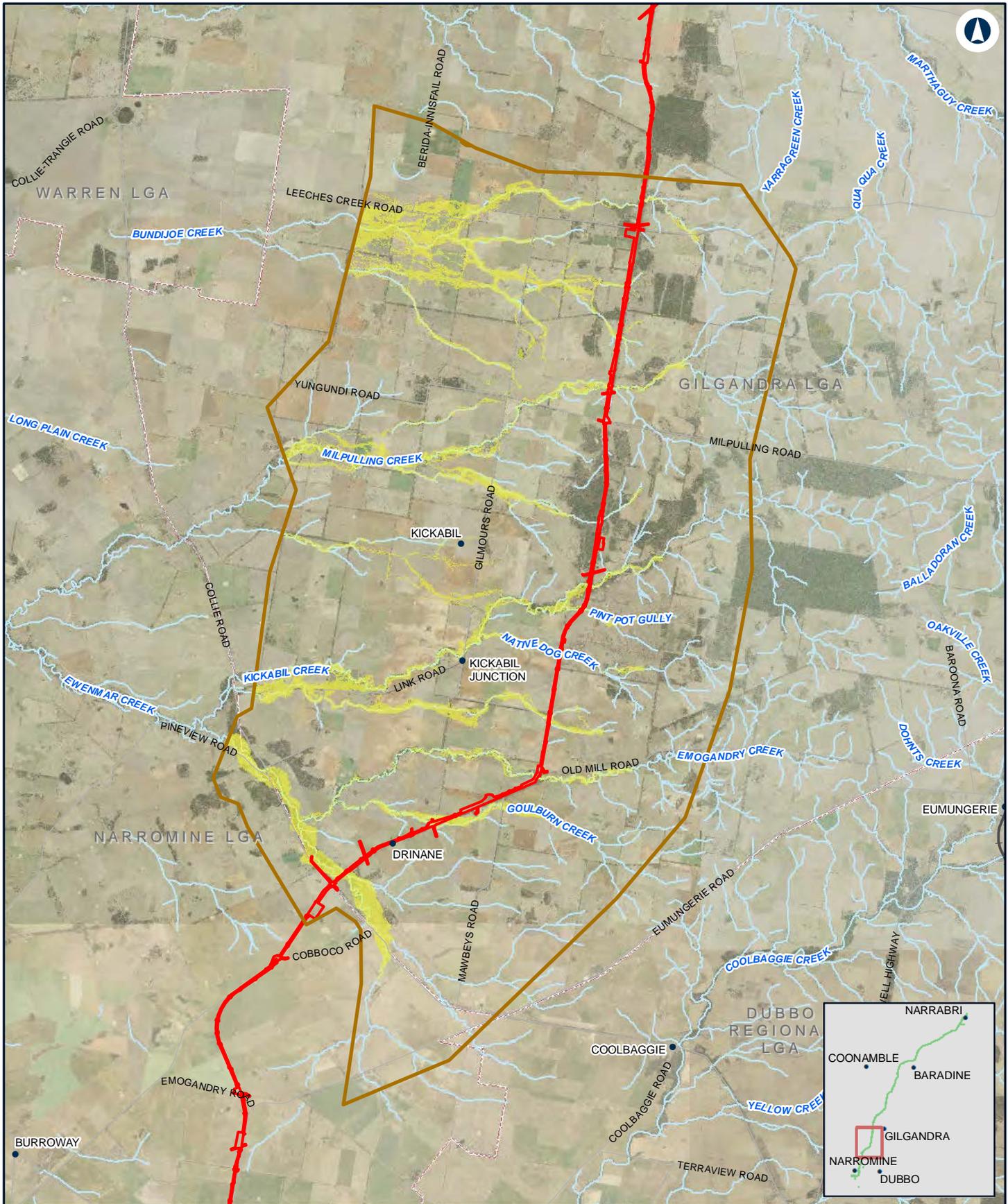
	The proposal site
	Model boundary
Flood velocity	
	0.0m/s - 1.0m/s
	1.0m/s - 1.5m/s
	1.5m/s - 2.0m/s
	> 2.0m/s

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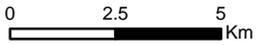


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NARROMINE TO NARRABRI Existing peak velocity - 20% AEP - N2N13

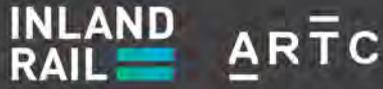
Appendix D Figure 2.1c



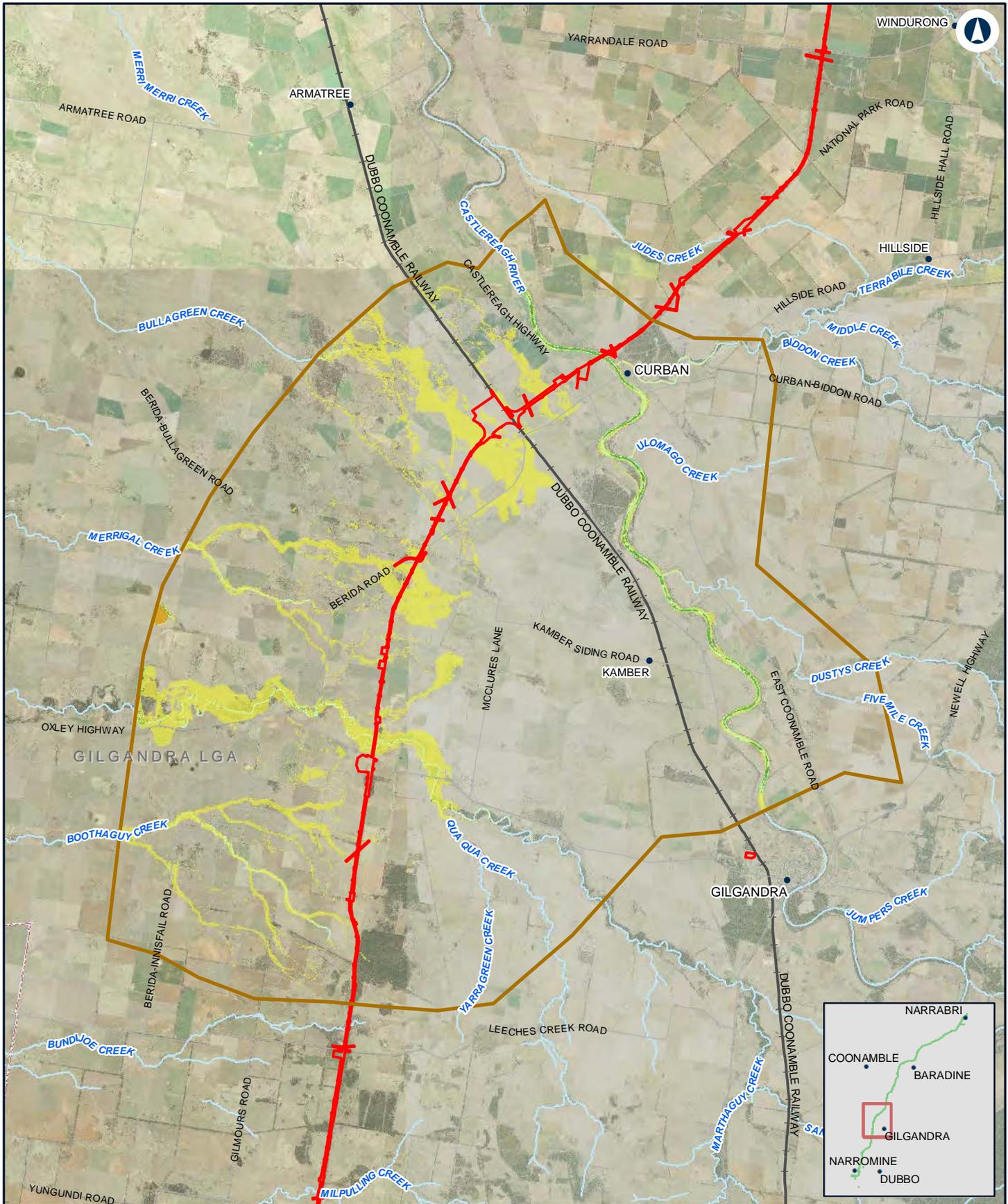
LEGEND

- The proposal site
- Model boundary
- Flood velocity**
- 0.0m/s - 1.0m/s
- 1.0m/s - 1.5m/s
- 1.5m/s - 2.0m/s
- > 2.0m/s

Coordinate System: GDA 1994 MGA Zone 55
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 Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:180,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD



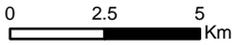
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NARROMINE TO NARRABRI

Existing peak velocity - 20% AEP - N2N11N12

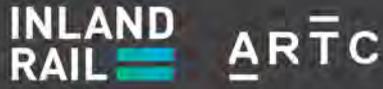
Appendix D Figure 2.1d



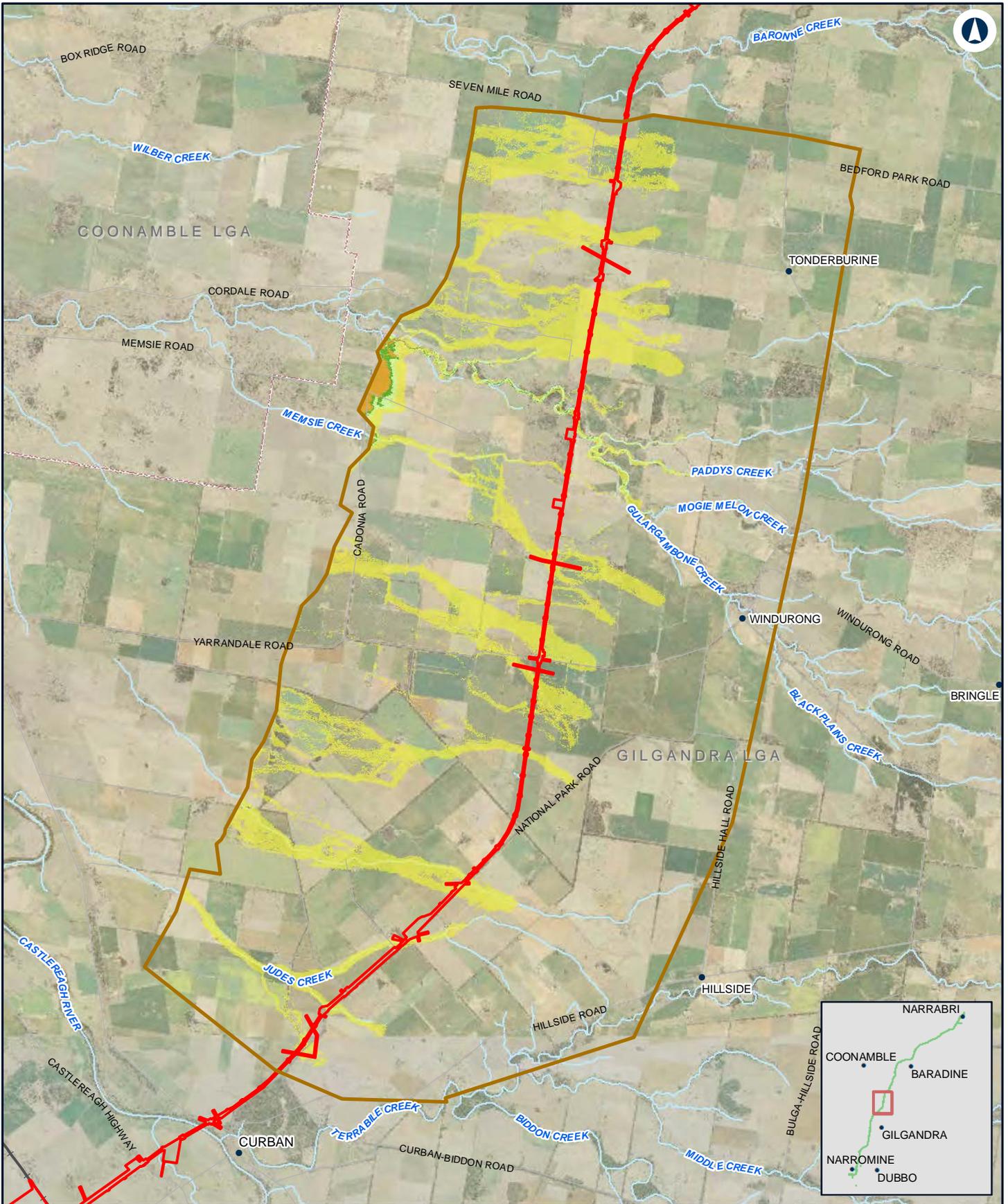
LEGEND

- The proposal site
- Model boundary
- Flood velocity**
- 0.0m/s - 1.0m/s
- 1.0m/s - 1.5m/s
- 1.5m/s - 2.0m/s
- > 2.0m/s

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 Author: JacobsGHD Scale: 1:200,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD



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NARROMINE TO NARRABRI

Existing peak velocity - 20% AEP - N2N10

Appendix D Figure 2.1e



LEGEND

- The proposal site
- Model boundary
- Flood velocity**
- 0.0m/s - 1.0m/s
- 1.0m/s - 1.5m/s
- 1.5m/s - 2.0m/s
- > 2.0m/s

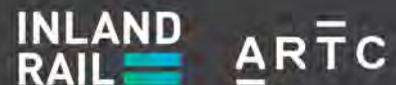
Coordinate System: GDA 1994 MGA Zone 55

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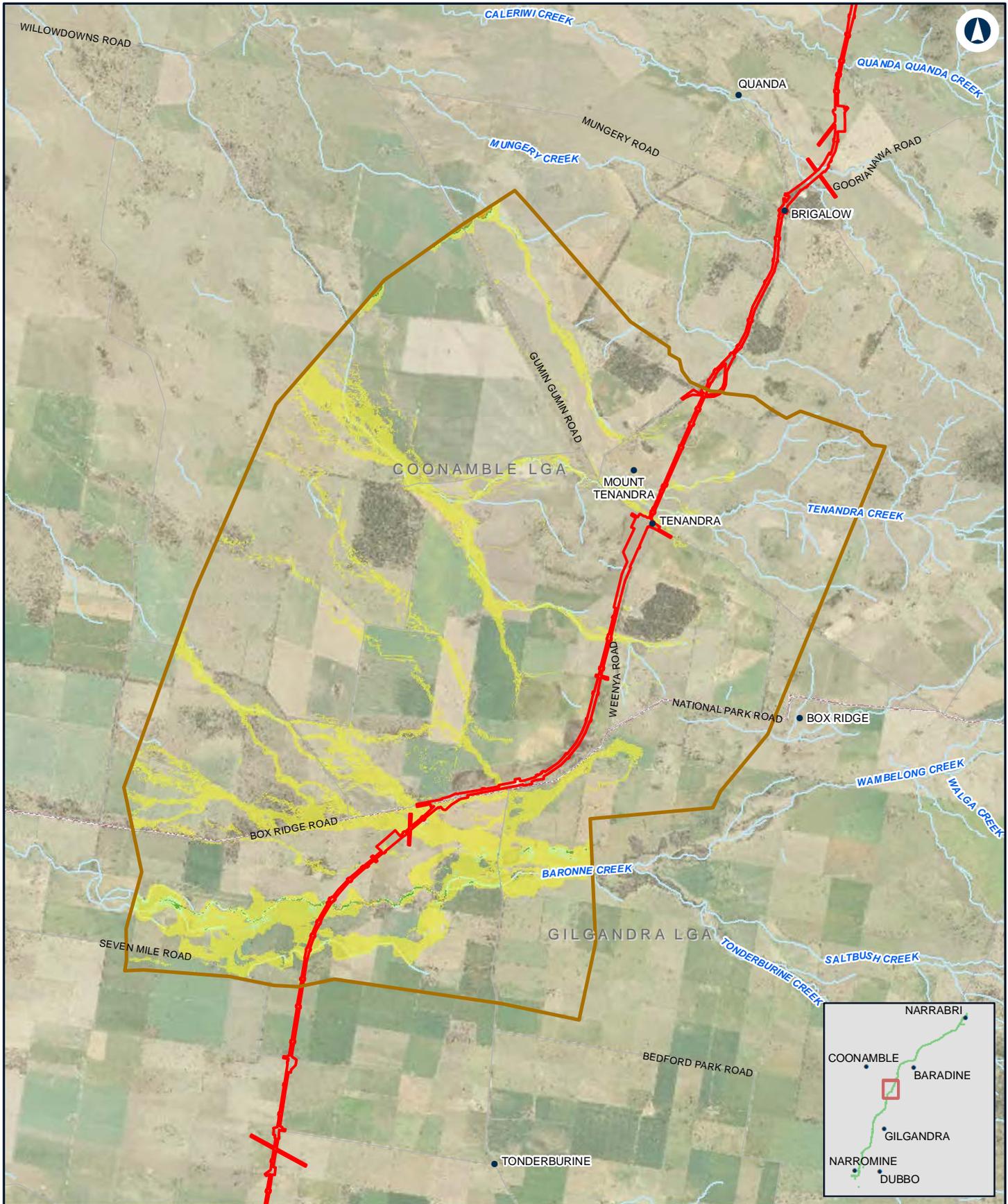
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:130,000

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



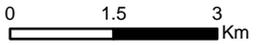
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NARROMINE TO NARRABRI

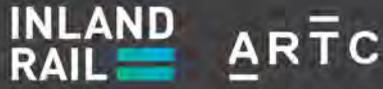
Existing peak velocity - 20% AEP - N2N9

Appendix D Figure 2.1f

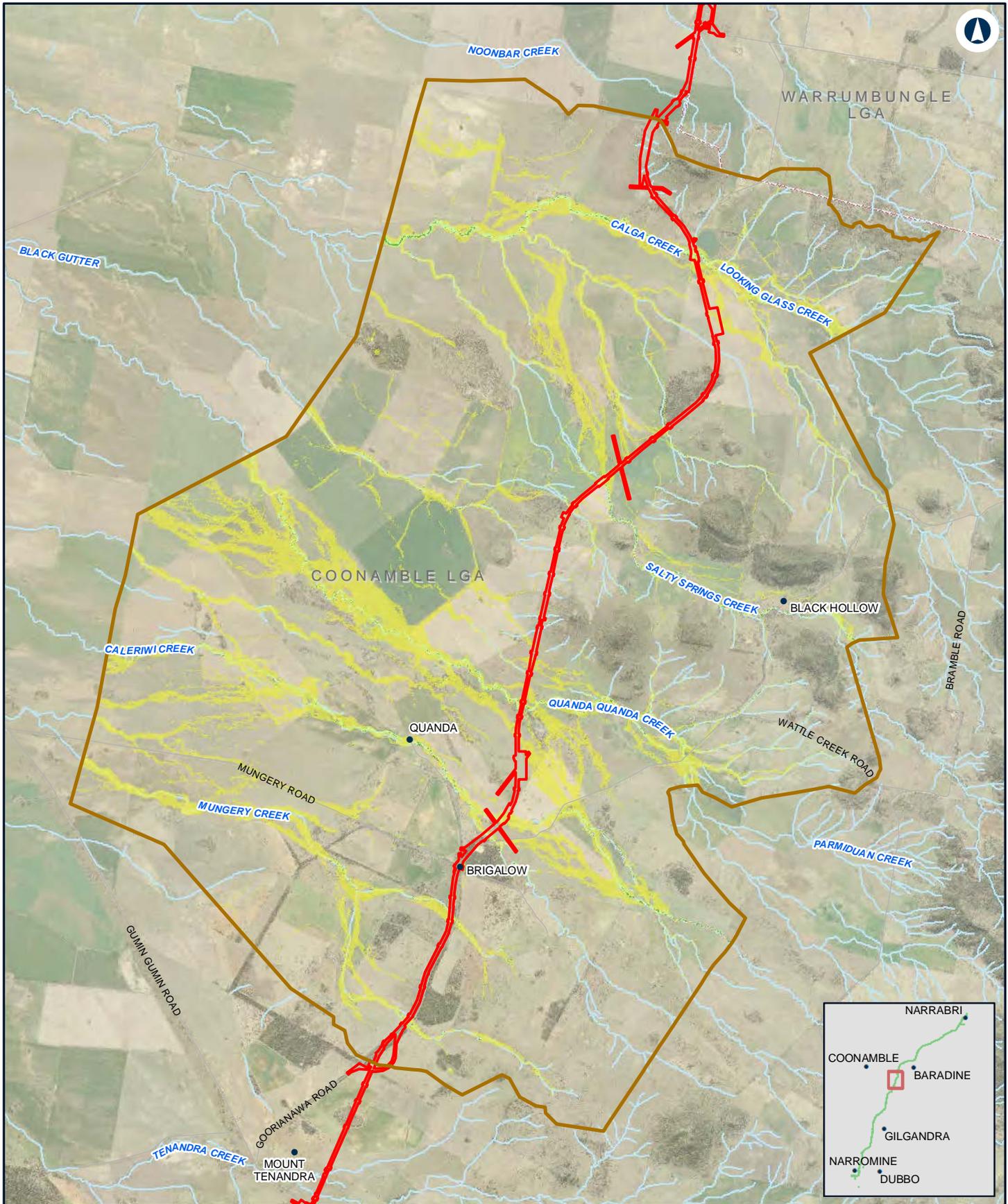


- LEGEND**
- The proposal site
 - Model boundary
 - Flood velocity**
 - 0.0m/s - 1.0m/s
 - 1.0m/s - 1.5m/s
 - 1.5m/s - 2.0m/s
 - > 2.0m/s

Coordinate System: GDA 1994 MGA Zone 55
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 Author: JacobsGHD Scale: 1:110,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD



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NARROMINE TO NARRABRI

Existing peak velocity - 20% AEP - N2N8

Appendix D Figure 2.1g



Coordinate System: GDA 1994 MGA Zone 55

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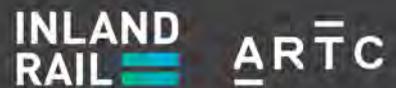
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:100,000

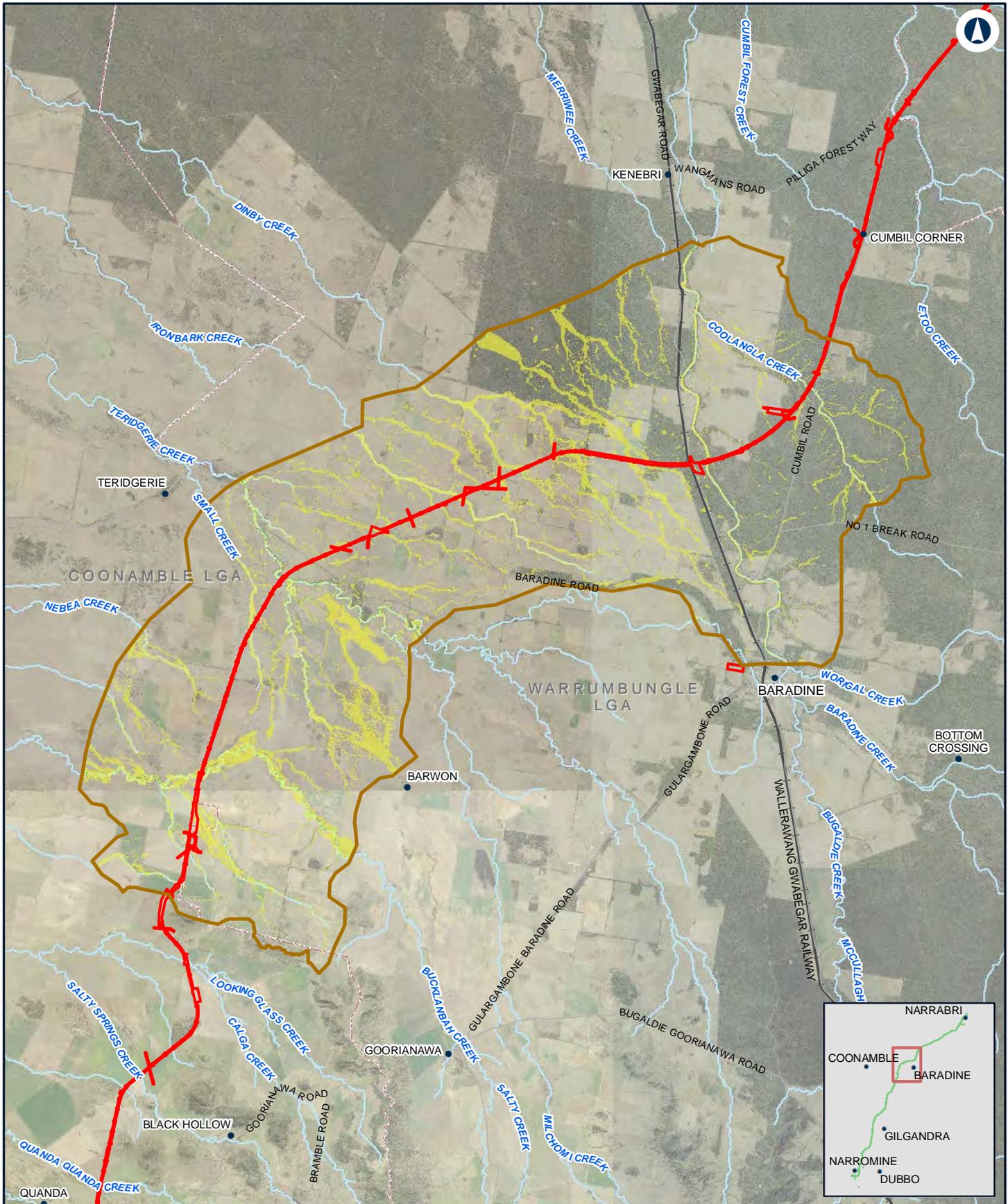
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
- Flood velocity**
- 0.0m/s - 1.0m/s
- 1.0m/s - 1.5m/s
- 1.5m/s - 2.0m/s
- > 2.0m/s

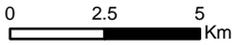


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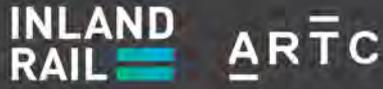
NARROMINE TO NARRABRI Existing peak velocity - 20% AEP - N2N7

Appendix D Figure 2.1h

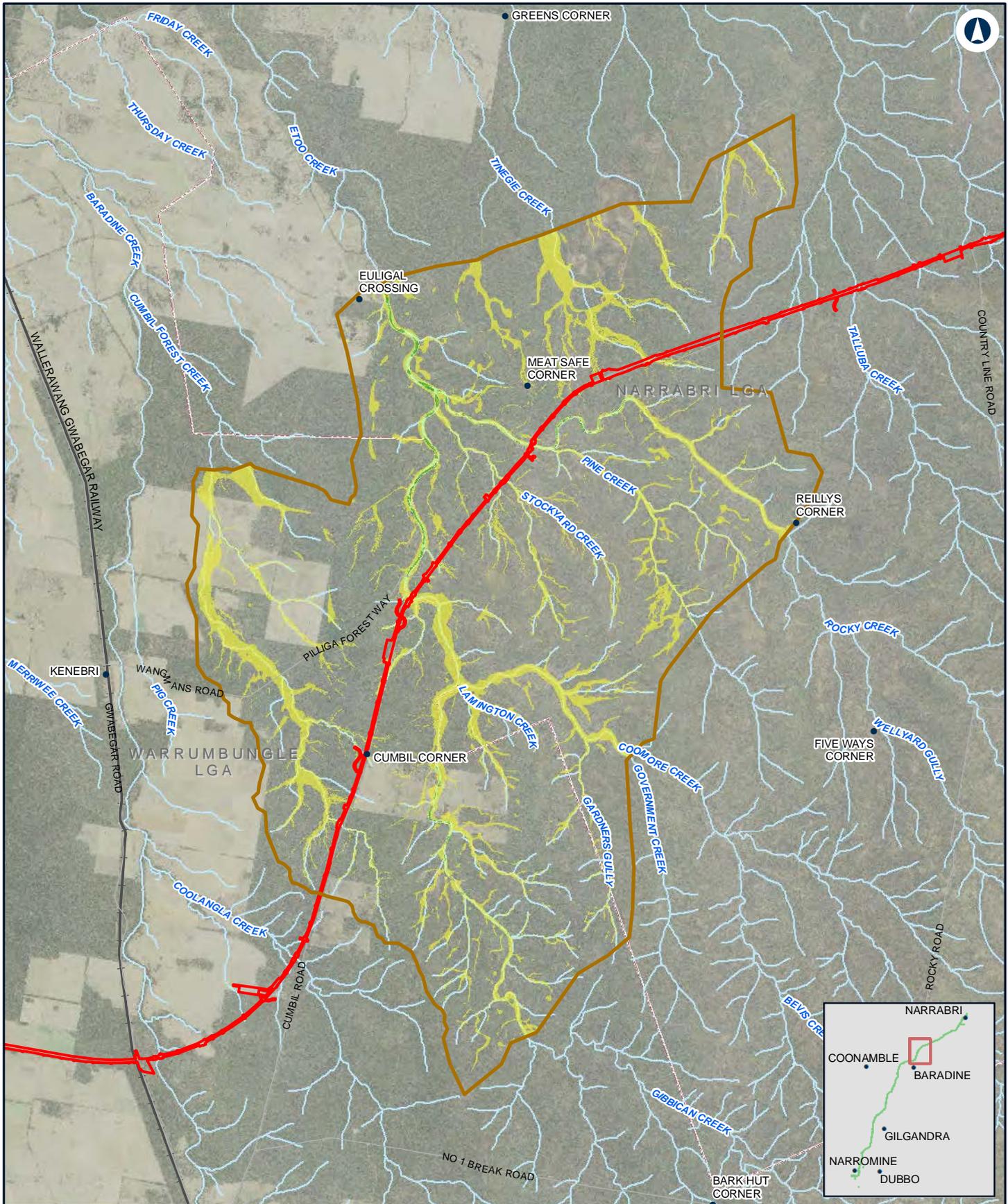


- LEGEND**
- The proposal site
 - Model boundary
 - Flood velocity**
 - 0.0m/s - 1.0m/s
 - 1.0m/s - 1.5m/s
 - 1.5m/s - 2.0m/s
 - > 2.0m/s

Coordinate System: GDA 1994 MGA Zone 55
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 Author: JacobsGHD Scale: 1:200,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD



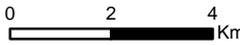
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NARROMINE TO NARRABRI

Existing peak velocity - 20% AEP - N2N6

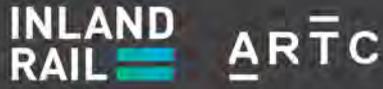
Appendix D Figure 2.1i



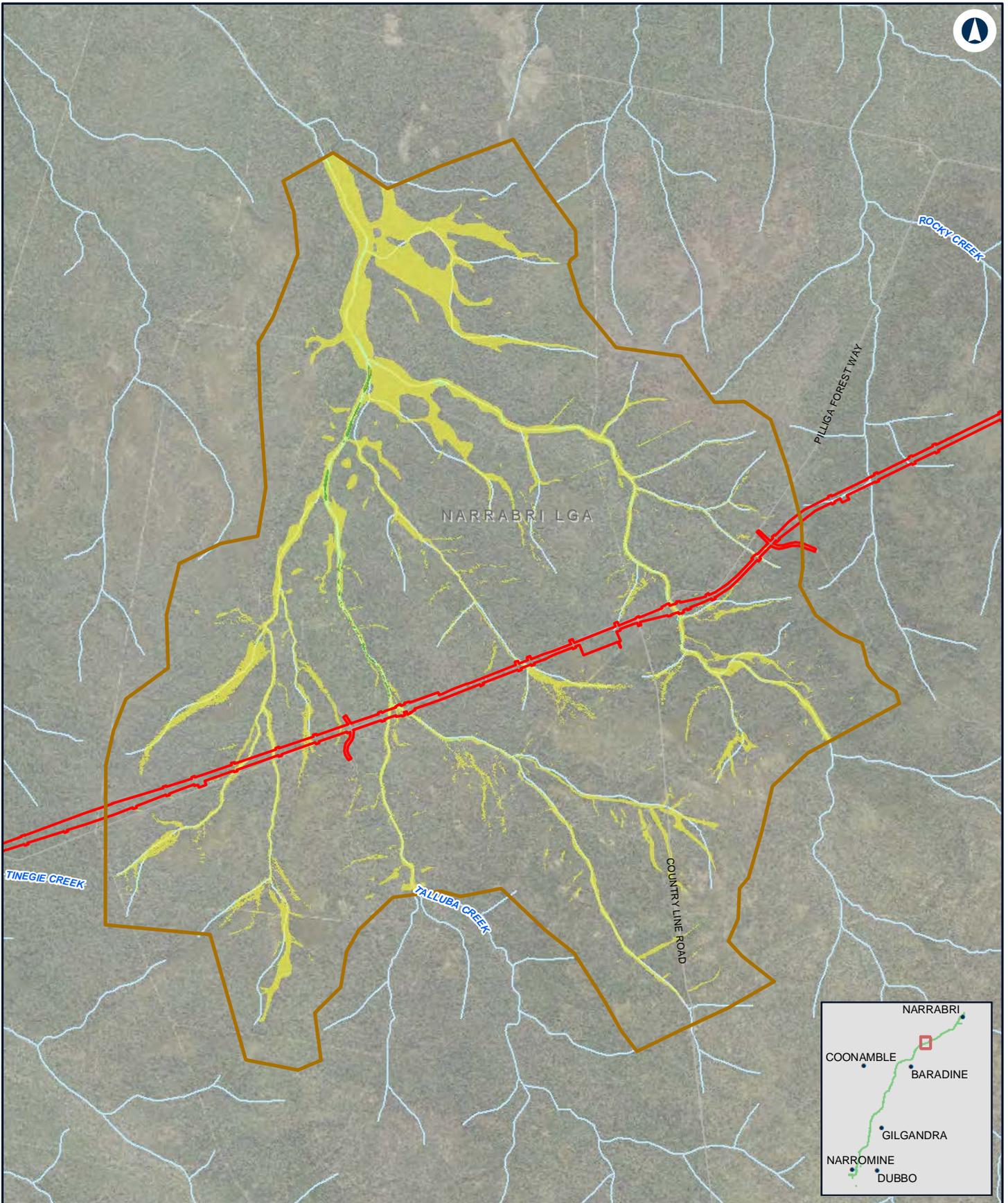
LEGEND

- The proposal site
- Model boundary
- Flood velocity**
- 0.0m/s - 1.0m/s
- 1.0m/s - 1.5m/s
- 1.5m/s - 2.0m/s
- > 2.0m/s

Coordinate System: GDA 1994 MGA Zone 55
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 Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:150,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD



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NARROMINE TO NARRABRI

Existing peak velocity - 20% AEP - N2N5

Appendix D Figure 2.1j



LEGEND

- The proposal site
- Model boundary
- Flood velocity**
- 0.0m/s - 1.0m/s
- 1.0m/s - 1.5m/s
- 1.5m/s - 2.0m/s
- > 2.0m/s

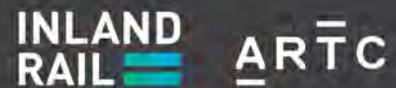
Coordinate System: GDA 1994 MGA Zone 55

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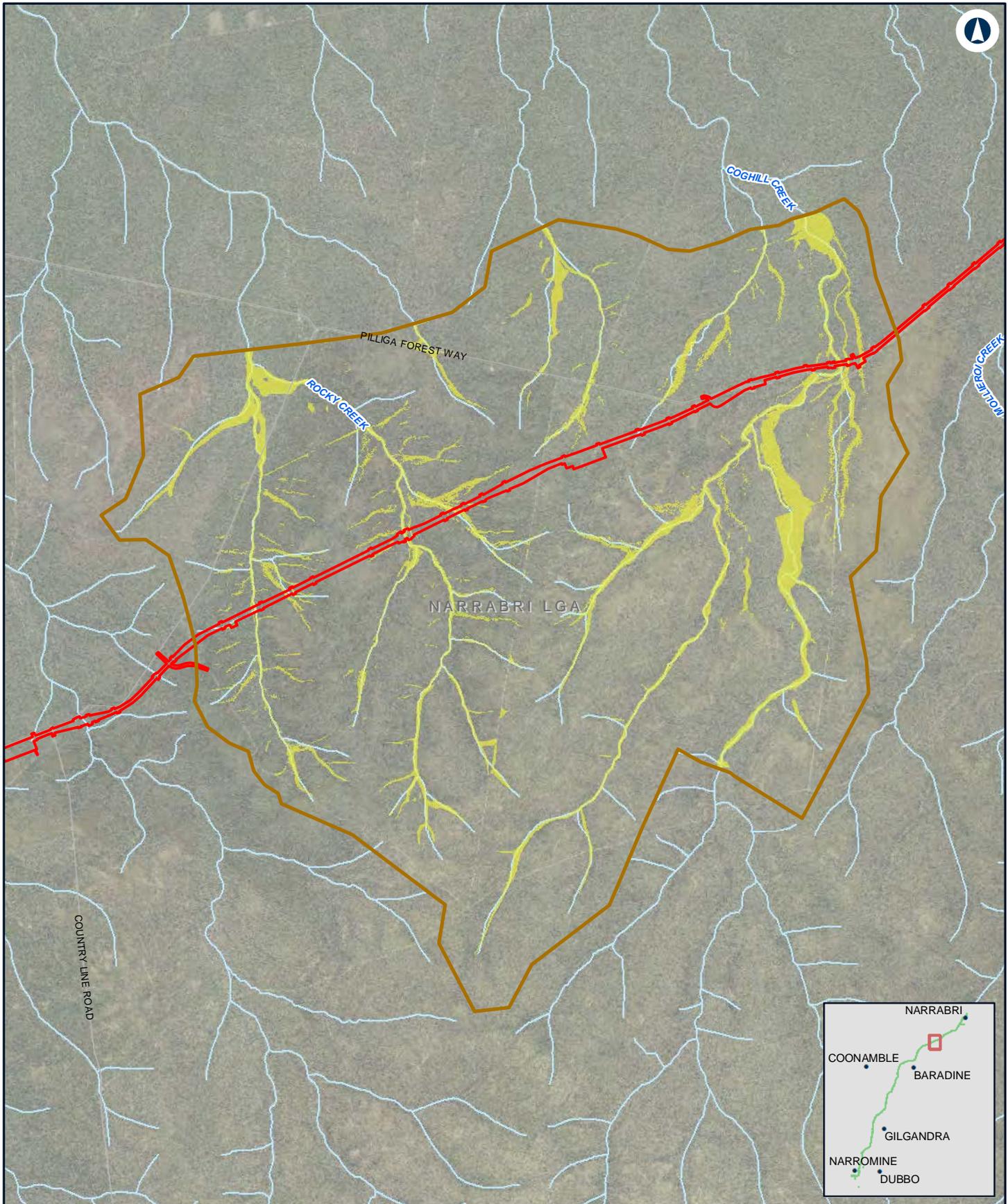
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:70,000

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



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NARROMINE TO NARRABRI

Existing peak velocity - 20% AEP - N2N4

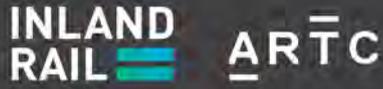
Appendix D Figure 2.1k



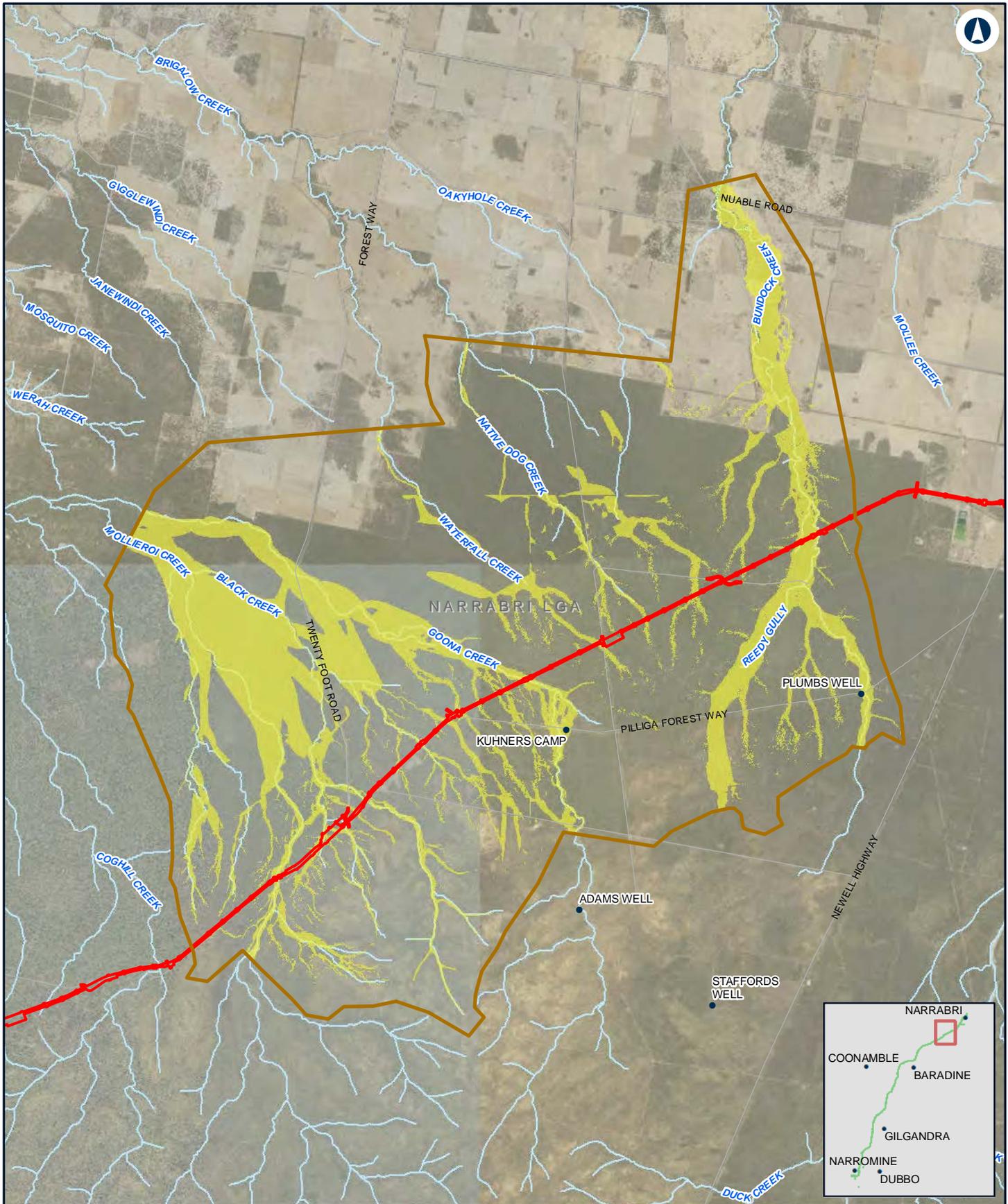
LEGEND

- The proposal site
- Model boundary
- Flood velocity**
- 0.0m/s - 1.0m/s
- 1.0m/s - 1.5m/s
- 1.5m/s - 2.0m/s
- > 2.0m/s

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 Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:80,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD



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NARROMINE TO NARRABRI

Existing peak velocity - 20% AEP - N2N23

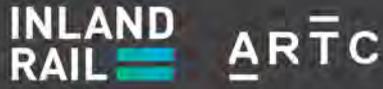
Appendix D Figure 2.11



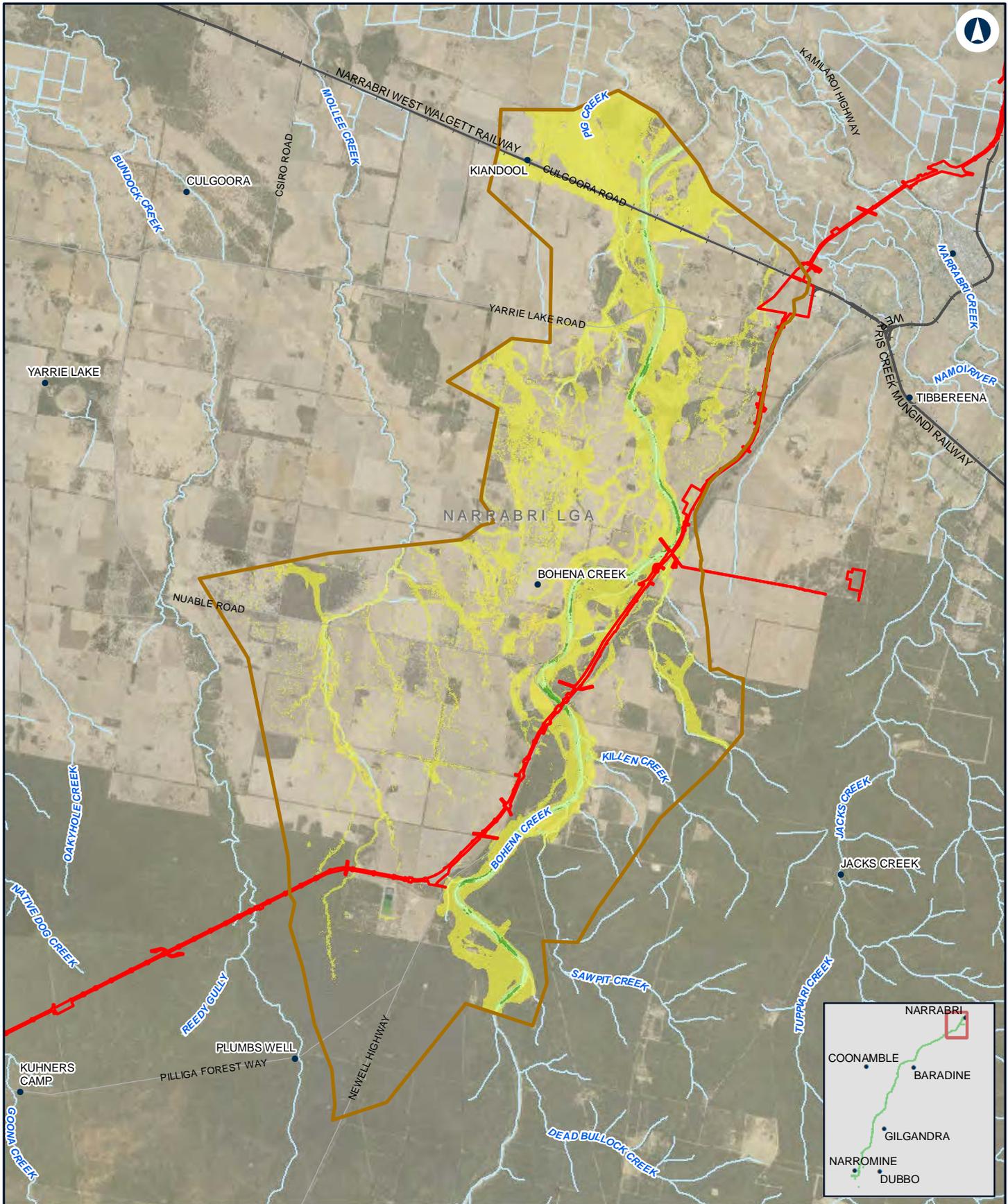
LEGEND

- The proposal site
- Model boundary
- Flood velocity**
- 0.0m/s - 1.0m/s
- 1.0m/s - 1.5m/s
- 1.5m/s - 2.0m/s
- > 2.0m/s

Coordinate System: GDA 1994 MGA Zone 55
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 Author: JacobsGHD Scale: 1:140,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD



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NARROMINE TO NARRABRI

Existing peak velocity - 20% AEP - N2N1

Appendix D Figure 2.1m

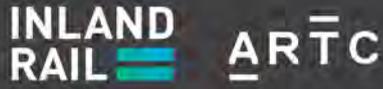


LEGEND

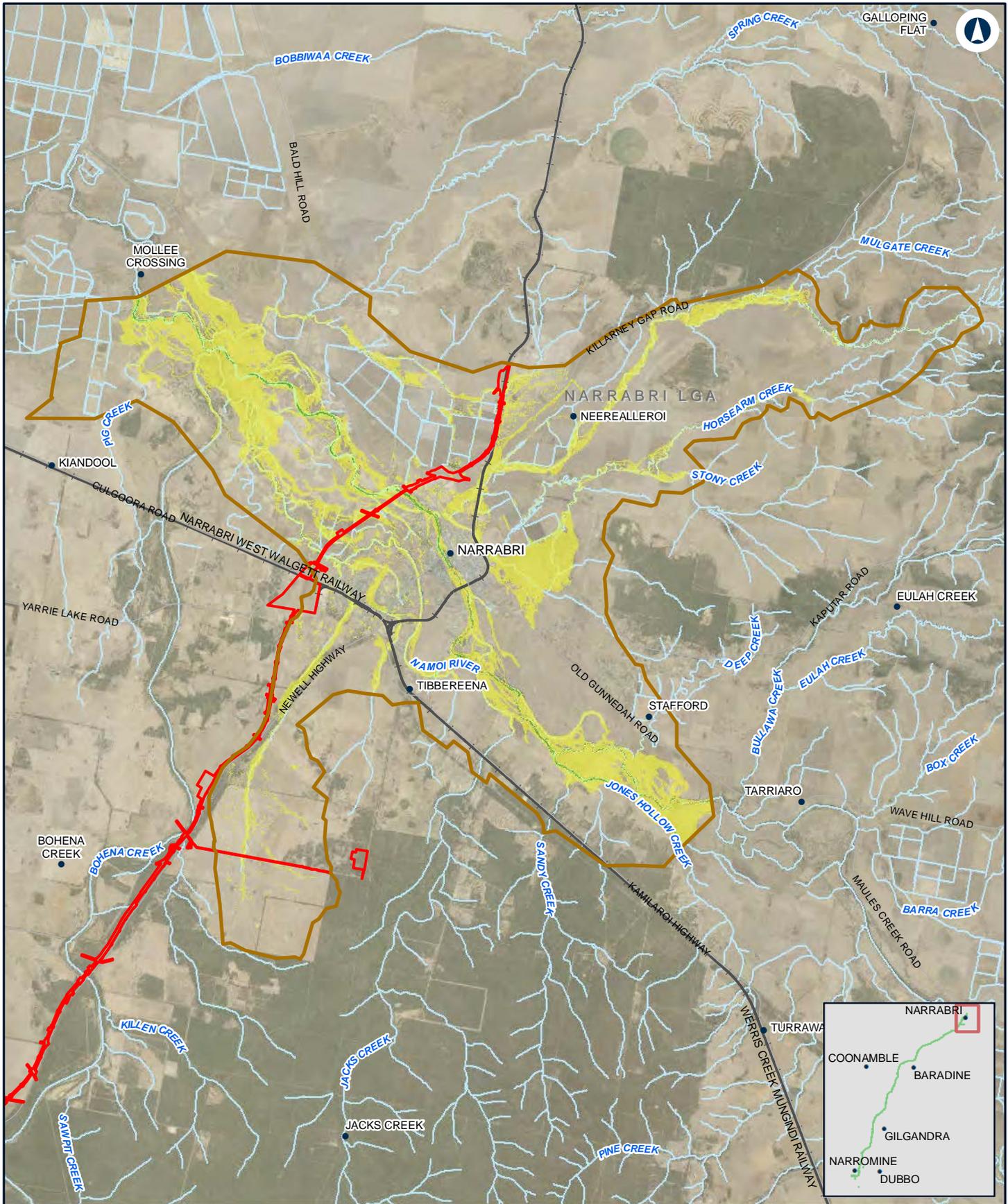
- The proposal site
- Model boundary
- Flood velocity**
- 0.0m/s - 1.0m/s
- 1.0m/s - 1.5m/s
- 1.5m/s - 2.0m/s
- > 2.0m/s

Coordinate System: GDA 1994 MGA Zone 55
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 Author: JacobsGHD Scale: 1:150,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD



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NARROMINE TO NARRABRI

Existing peak velocity - 20% AEP - Narrabri

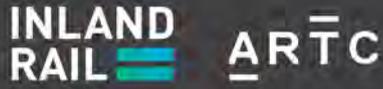
Appendix D Figure 2.1n



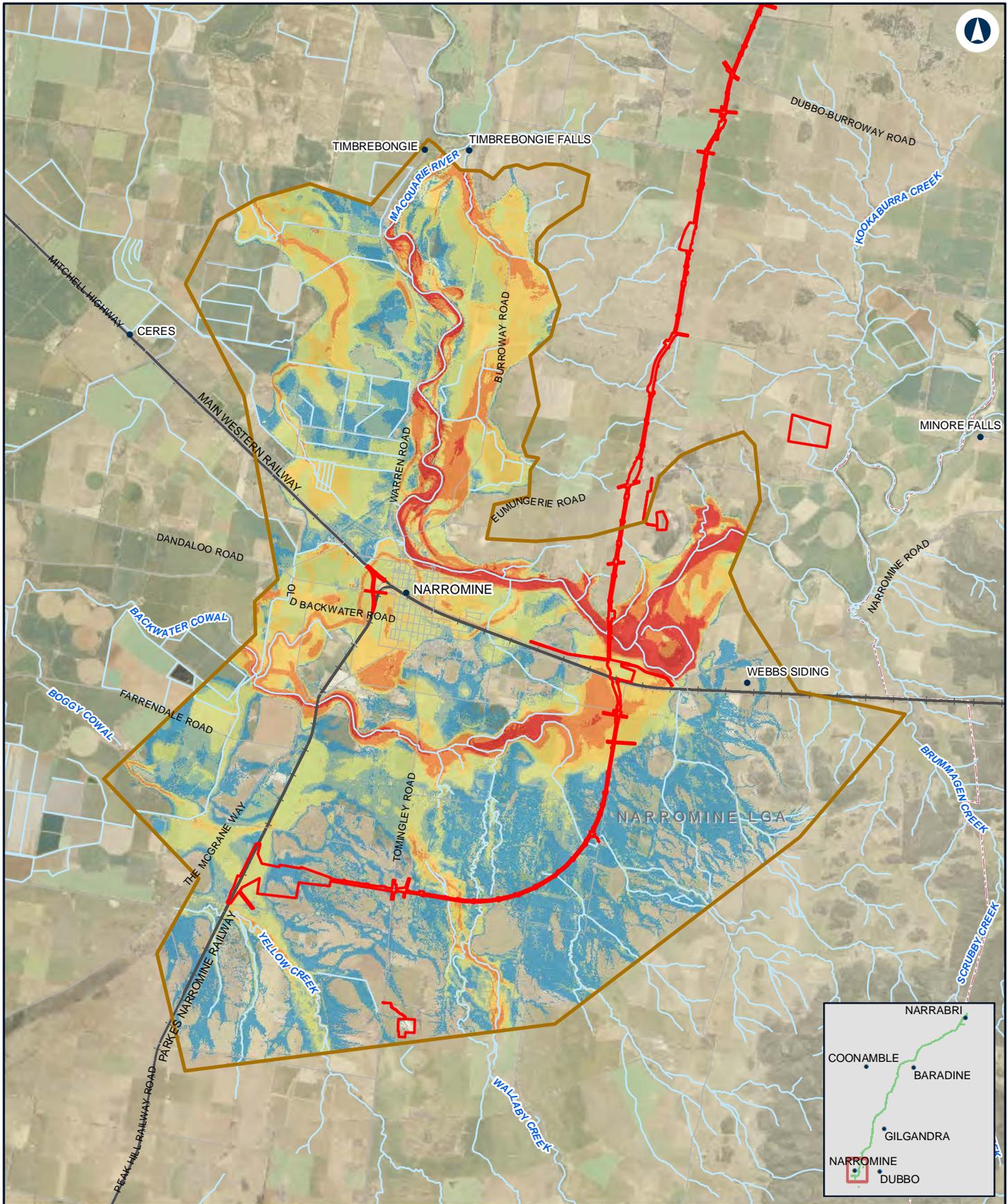
LEGEND

- The proposal site
- Model boundary
- Flood velocity**
- 0.0m/s - 1.0m/s
- 1.0m/s - 1.5m/s
- 1.5m/s - 2.0m/s
- > 2.0m/s

Coordinate System: GDA 1994 MGA Zone 55
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 Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:160,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD



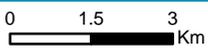
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NARROMINE TO NARRABRI

Existing flood hazard - 1% AEP with climate change - NFM

Appendix D - Figure 4.5a



Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:140,000

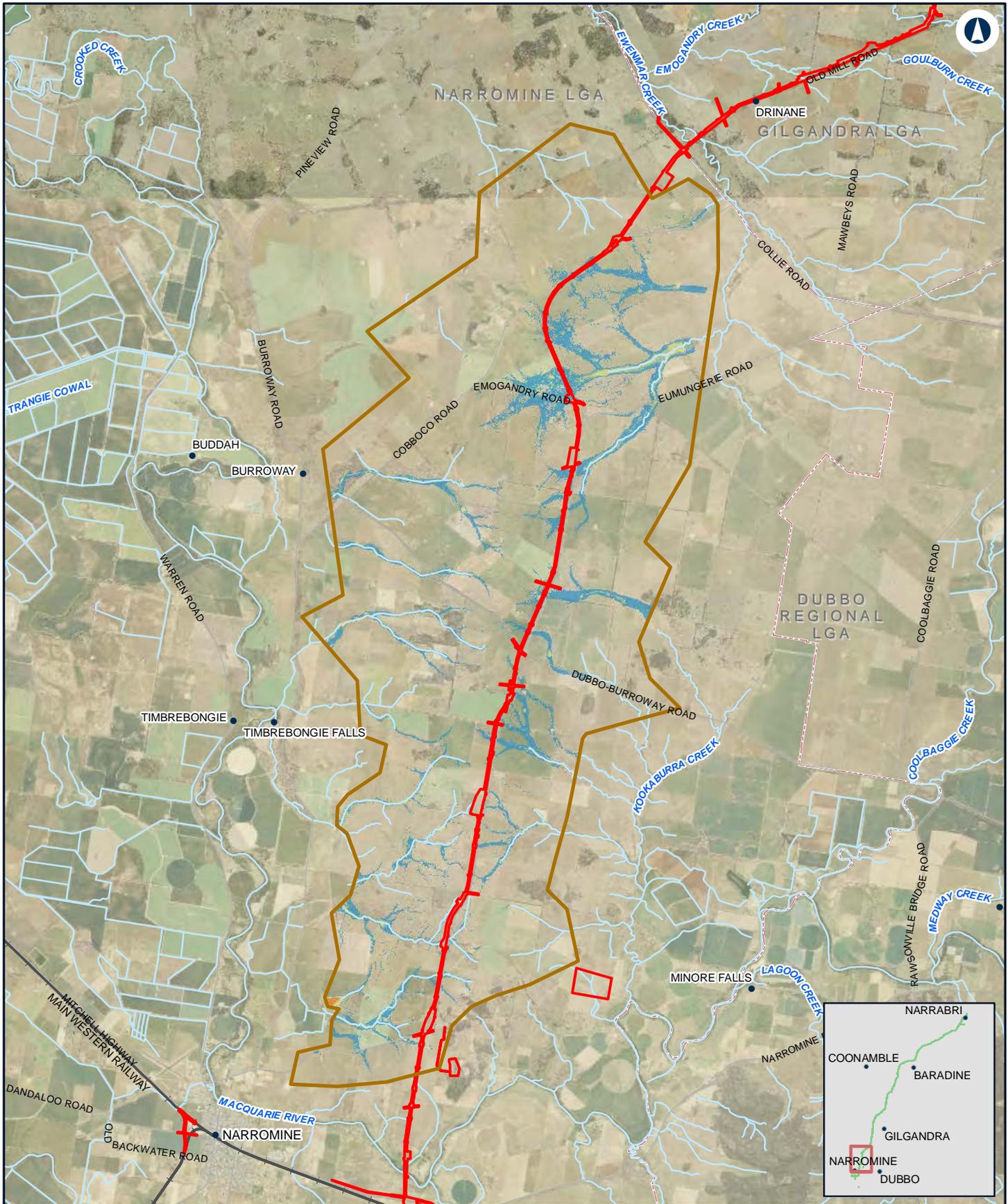
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
- Generally safe for vehicles, people and buildings
- Unsafe for small vehicles
- Unsafe for vehicles, children and the elderly
- Unsafe for vehicles and people
- Unsafe for all people and all vehicles. Buildings require special engineering design and construction
- Unconditionally dangerous



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NARROMINE TO NARRABRI

Existing flood hazard - 1% AEP with climate change - N2N14

Appendix D - Figure 4.5b

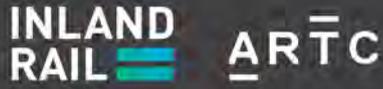


LEGEND

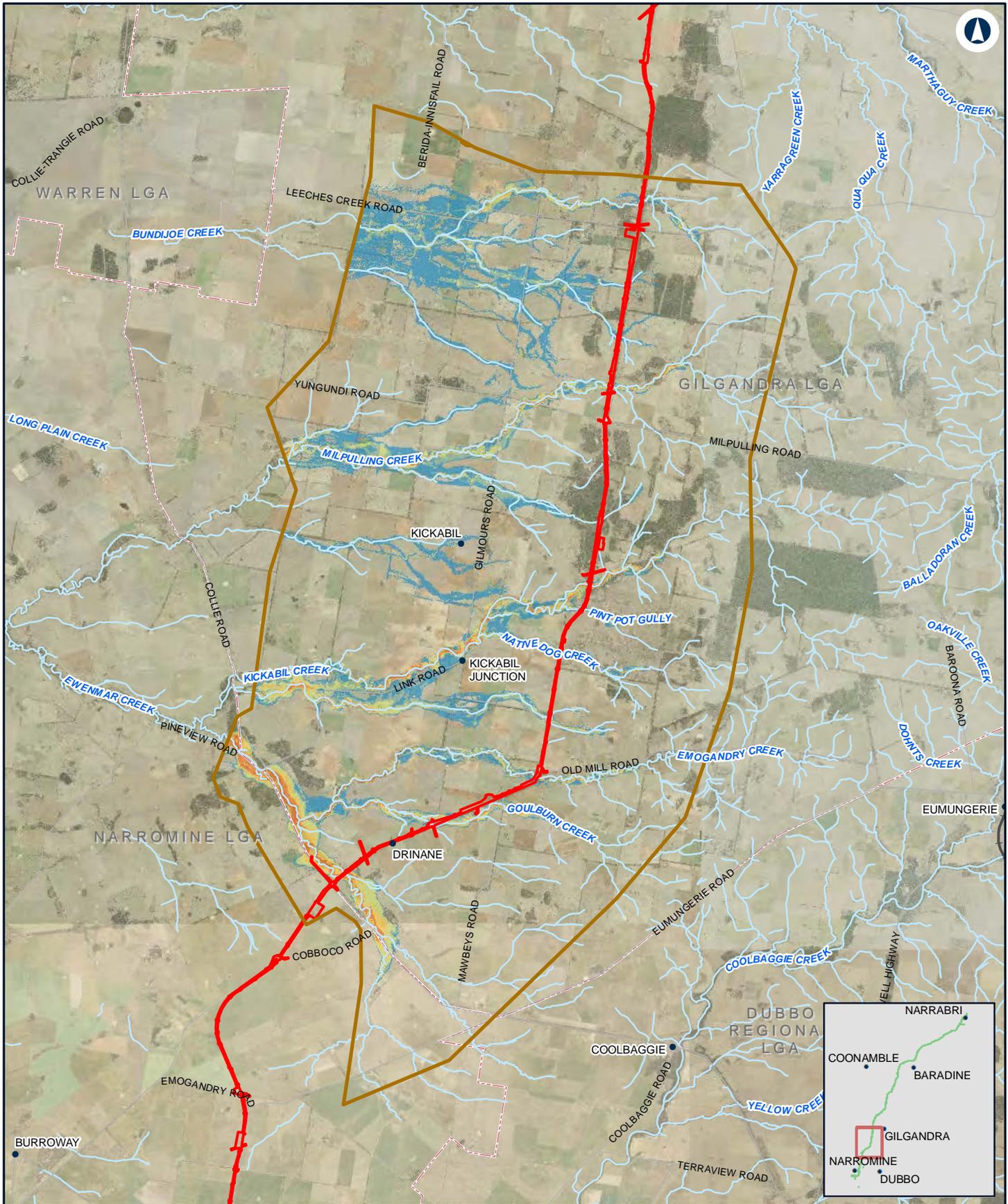
- The proposal site
- Model boundary
- Generally safe for vehicles, people and buildings
- Unsafe for small vehicles
- Unsafe for vehicles, children and the elderly
- Unsafe for vehicles and people
- Unsafe for all people and all vehicles. Buildings require special engineering design and construction
- Unconditionally dangerous

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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:150,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD



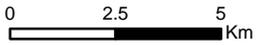
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NARROMINE TO NARRABRI

Existing flood hazard - 1% AEP with climate change - N2N13

Appendix D - Figure 4.5c



Coordinate System: GDA 1994 MGA Zone 55

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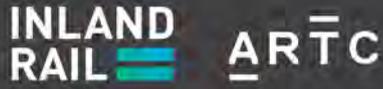
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:180,000

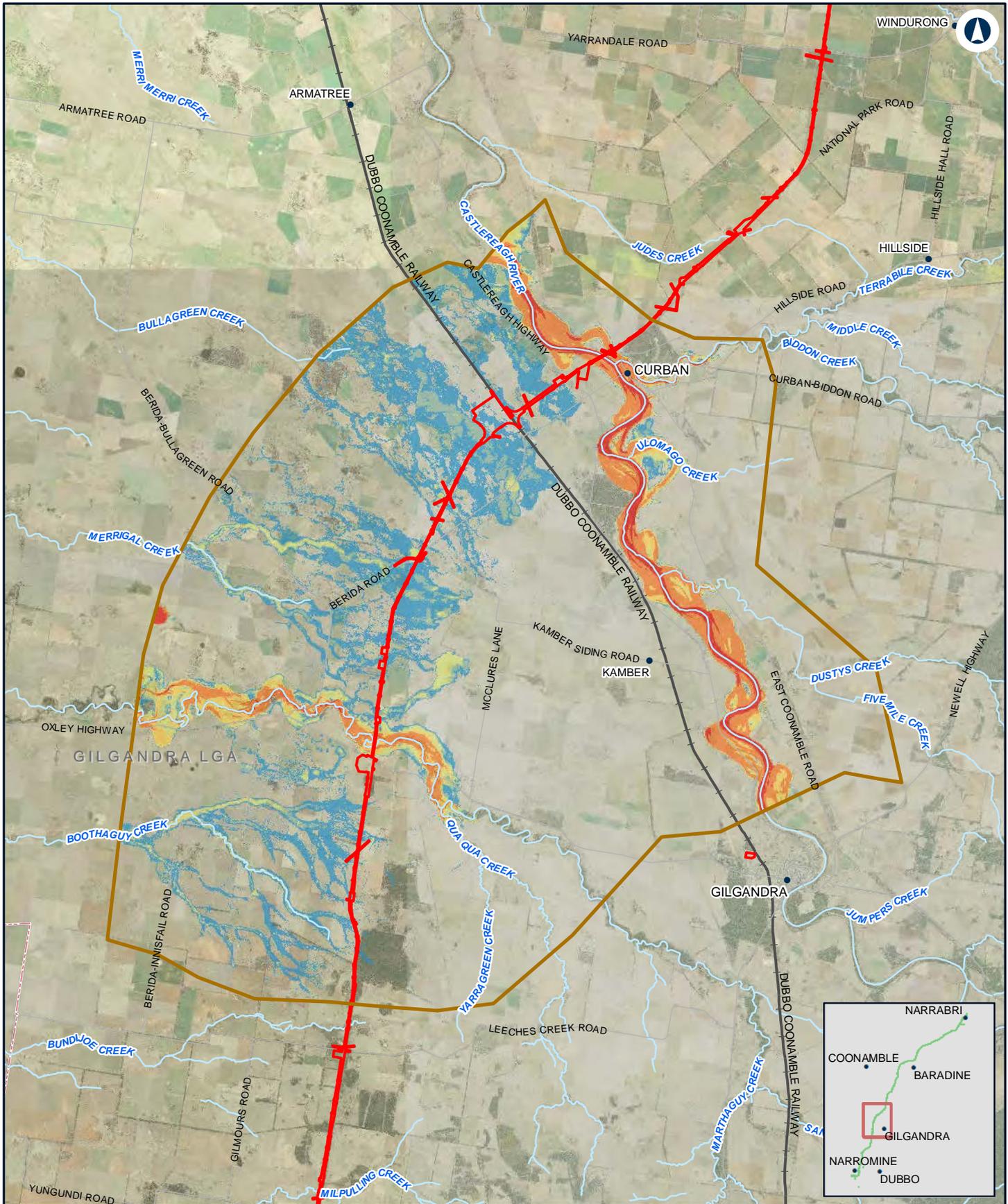
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- ▬ The proposal site
- Model boundary
- Generally safe for vehicles, people and buildings
- Unsafe for small vehicles
- Unsafe for vehicles, children and the elderly
- Unsafe for vehicles and people
- Unsafe for all people and all vehicles. Buildings require special engineering design and construction
- Unconditionally dangerous



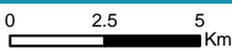
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NARROMINE TO NARRABRI

Existing flood hazard - 1% AEP with climate change - N2N11N12

Appendix D - Figure 4.5d



Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:200,000

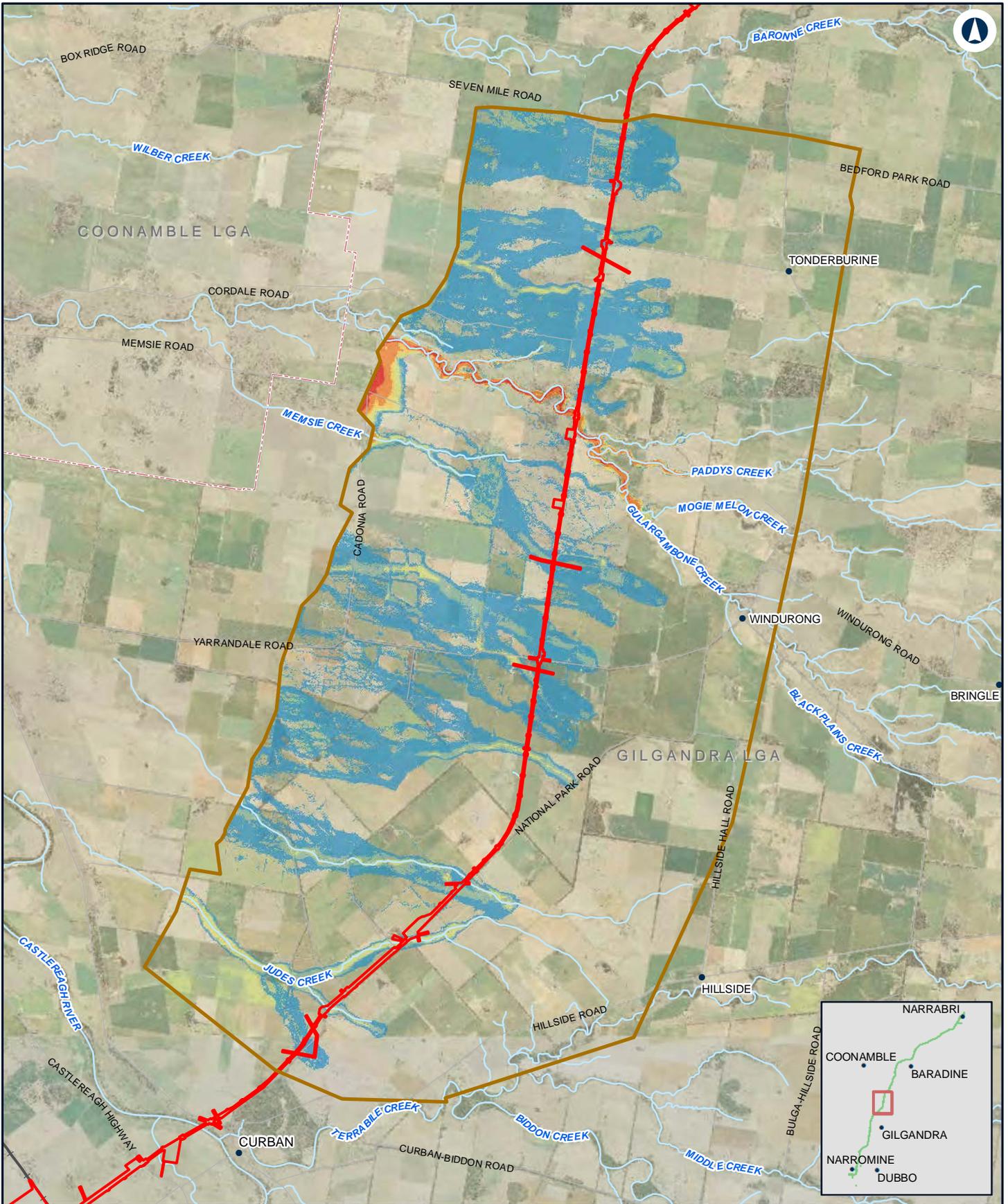
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
- Generally safe for vehicles, people and buildings
- Unsafe for small vehicles
- Unsafe for vehicles, children and the elderly
- Unsafe for vehicles and people
- Unsafe for all people and all vehicles. Buildings require special engineering design and construction
- Unconditionally dangerous



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NARROMINE TO NARRABRI

Existing flood hazard - 1% AEP with climate change - N2N10

Appendix D - Figure 4.5e



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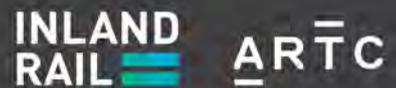
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:130,000

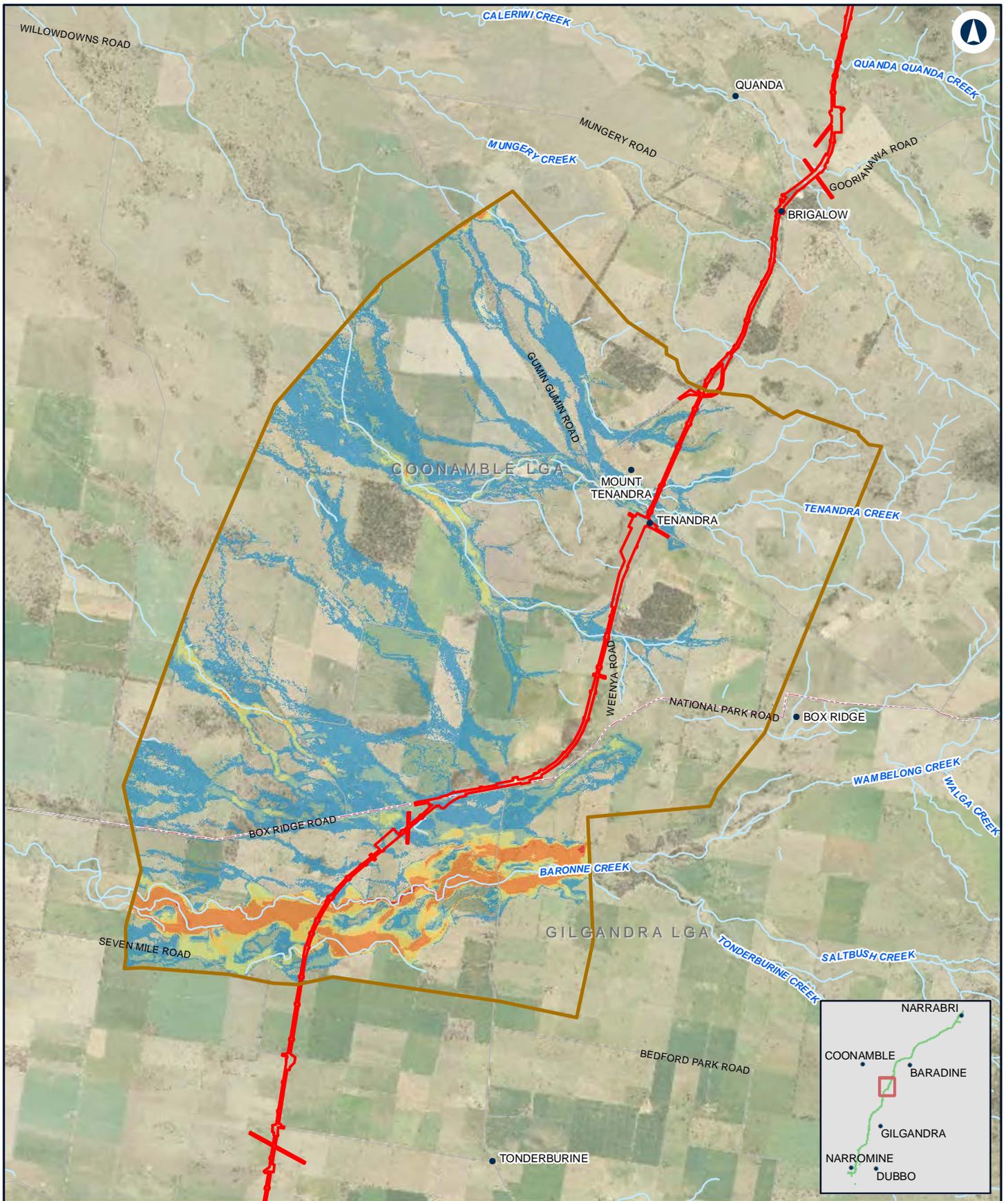
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
- Generally safe for vehicles, people and buildings
- Unsafe for small vehicles
- Unsafe for vehicles, children and the elderly
- Unsafe for vehicles and people
- Unsafe for all people and all vehicles. Buildings require special engineering design and construction
- Unconditionally dangerous



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NARROMINE TO NARRABRI

Existing flood hazard - 1% AEP with climate change - N2N9

Appendix D - Figure 4.5f



Coordinate System: GDA 1994 MGA Zone 55

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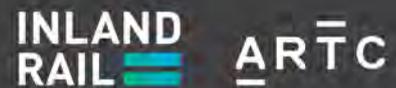
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:110,000

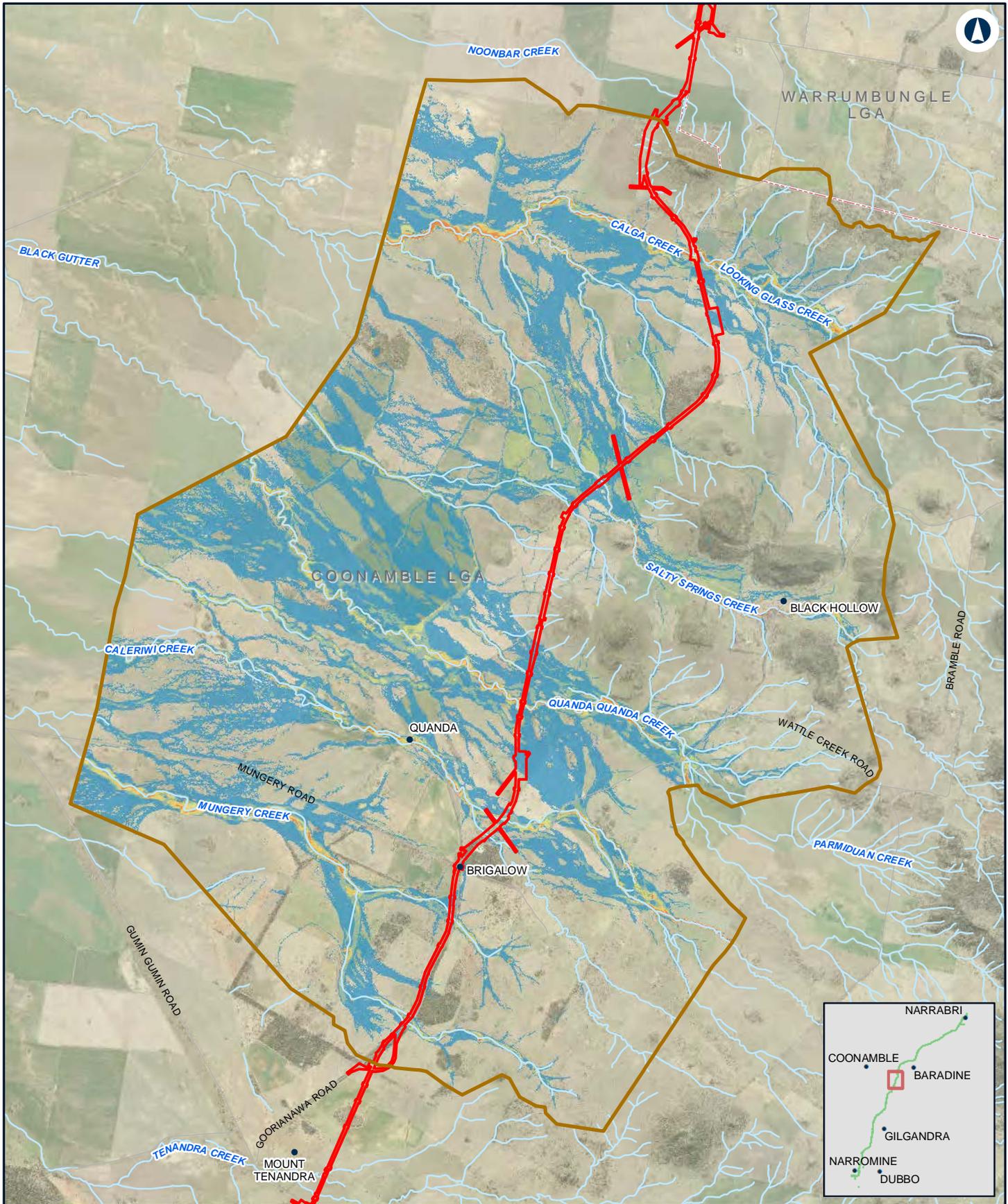
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

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NARROMINE TO NARRABRI

Existing flood hazard - 1% AEP with climate change - N2N8

Appendix D - Figure 4.5g



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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:100,000

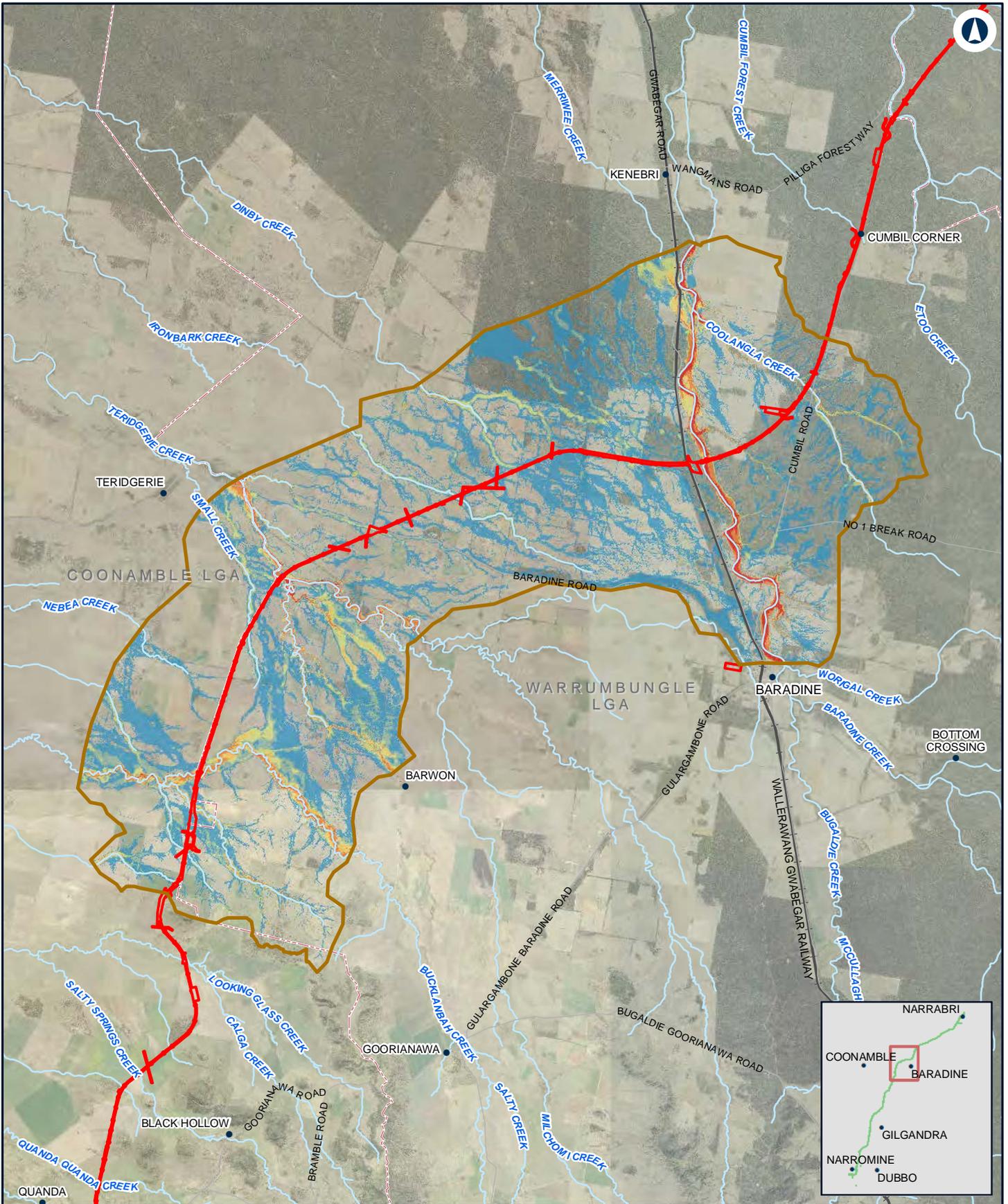
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
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NARROMINE TO NARRABRI

Existing flood hazard - 1% AEP with climate change - N2N7

Appendix D - Figure 4.5h



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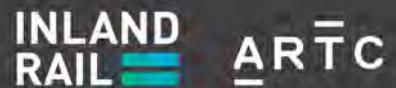
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:200,000

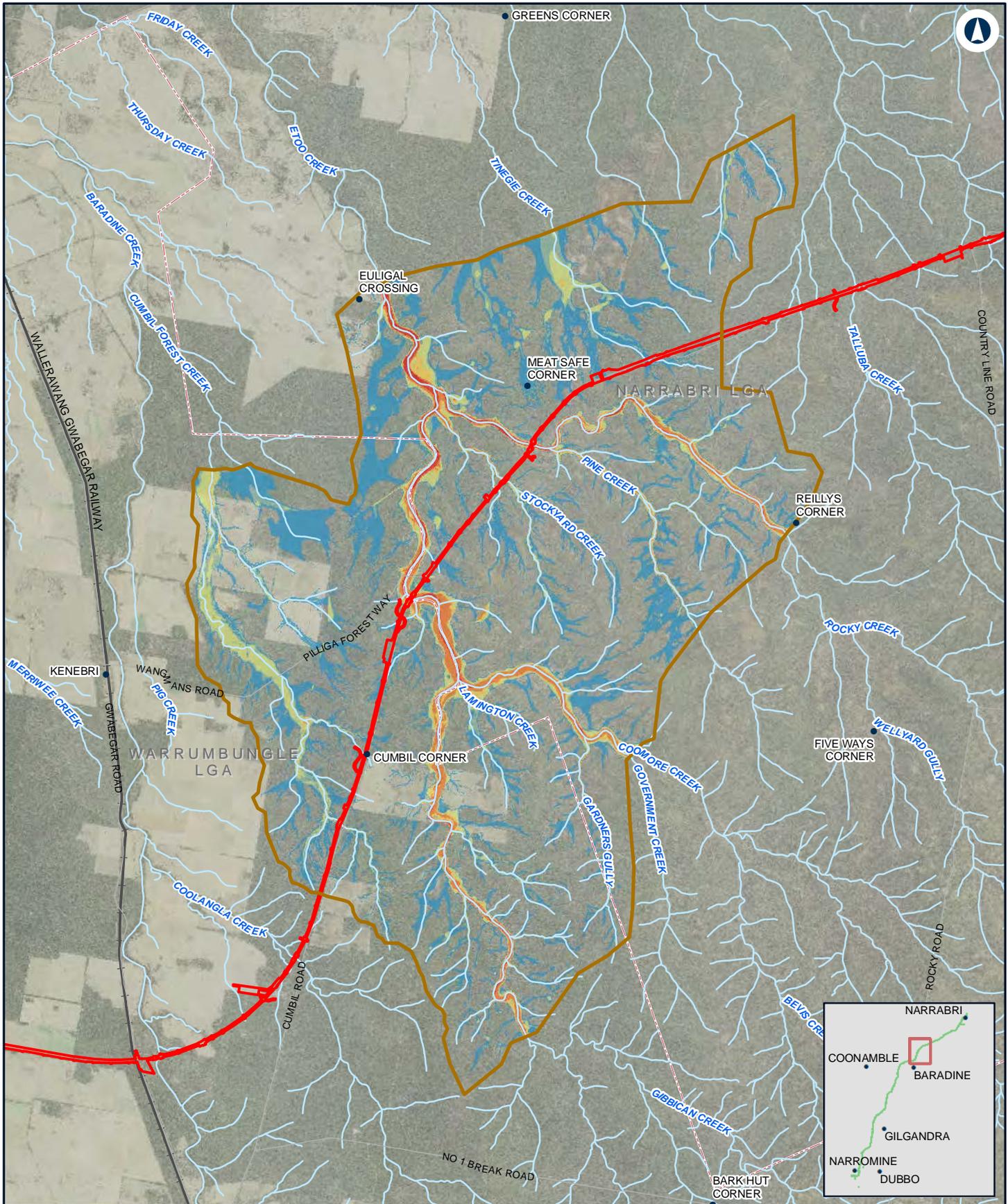
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

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- Model boundary
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- Unsafe for vehicles, children and the elderly
- Unsafe for vehicles and people
- Unsafe for all people and all vehicles. Buildings require special engineering design and construction
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NARROMINE TO NARRABRI

Existing flood hazard - 1% AEP with climate change - N2N6

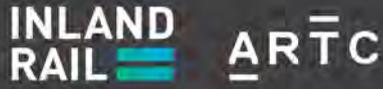
Appendix D - Figure 4.5i



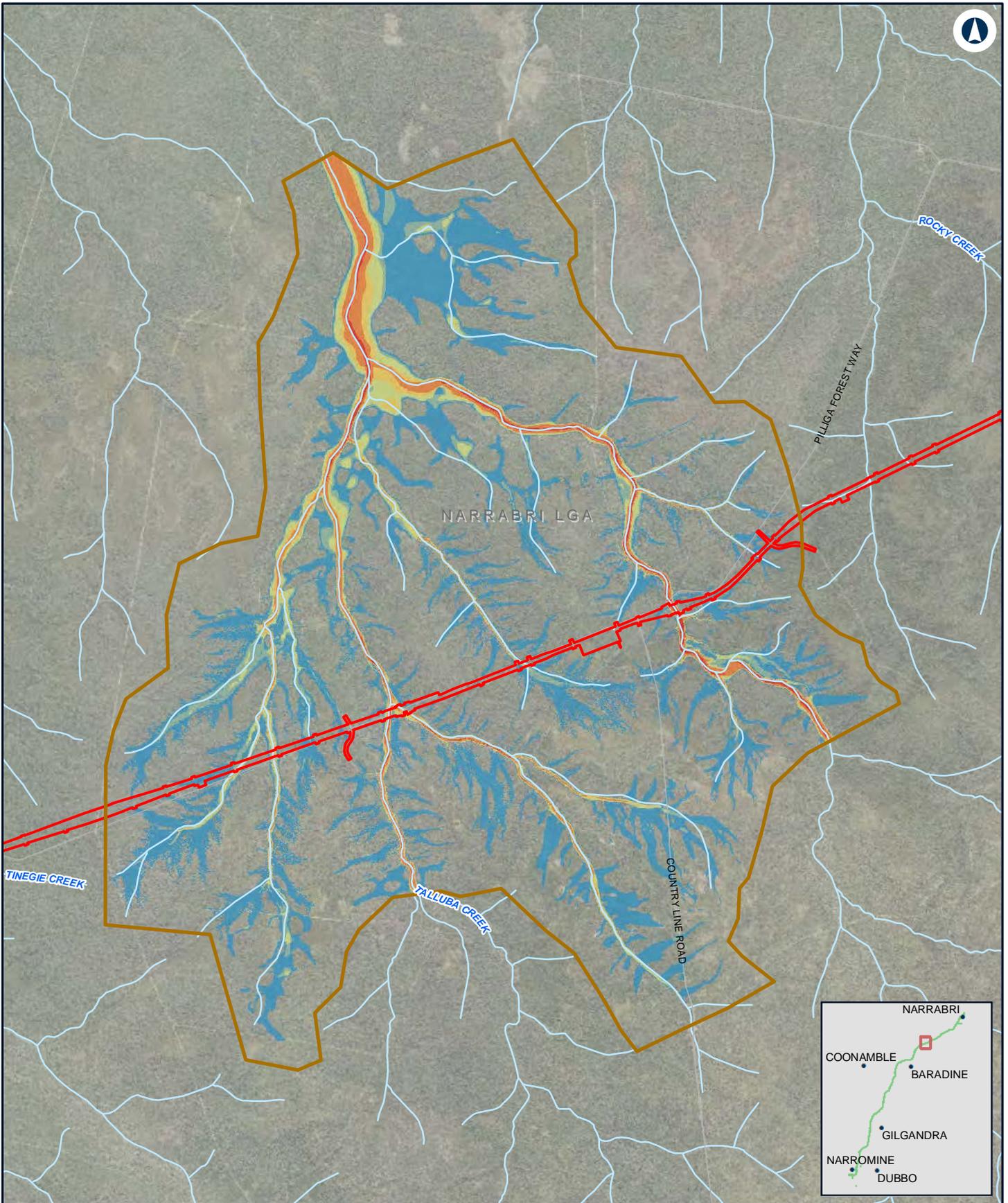
LEGEND

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- Model boundary
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 Author: JacobsGHD Scale: 1:150,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD



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NARROMINE TO NARRABRI

Existing flood hazard - 1% AEP with climate change - N2N5

Appendix D - Figure 4.5j



Coordinate System: GDA 1994 MGA Zone 55

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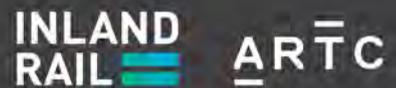
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:70,000

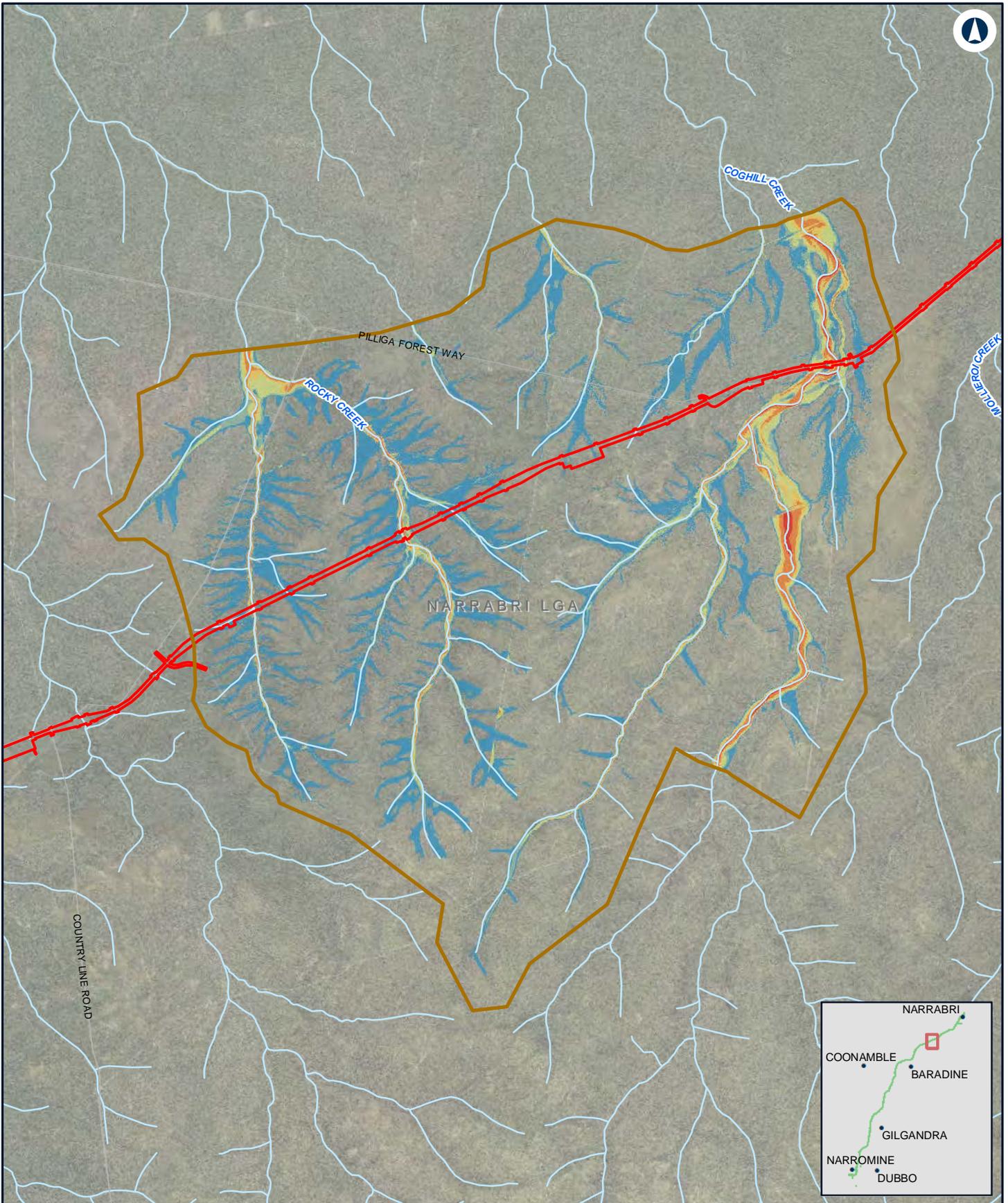
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
- Generally safe for vehicles, people and buildings
- Unsafe for small vehicles
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- Unsafe for vehicles and people
- Unsafe for all people and all vehicles. Buildings require special engineering design and construction
- Unconditionally dangerous



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NARROMINE TO NARRABRI

Existing flood hazard - 1% AEP with climate change - N2N4

Appendix D - Figure 4.5k



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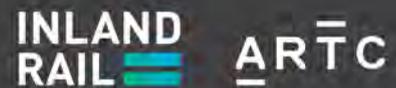
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:80,000

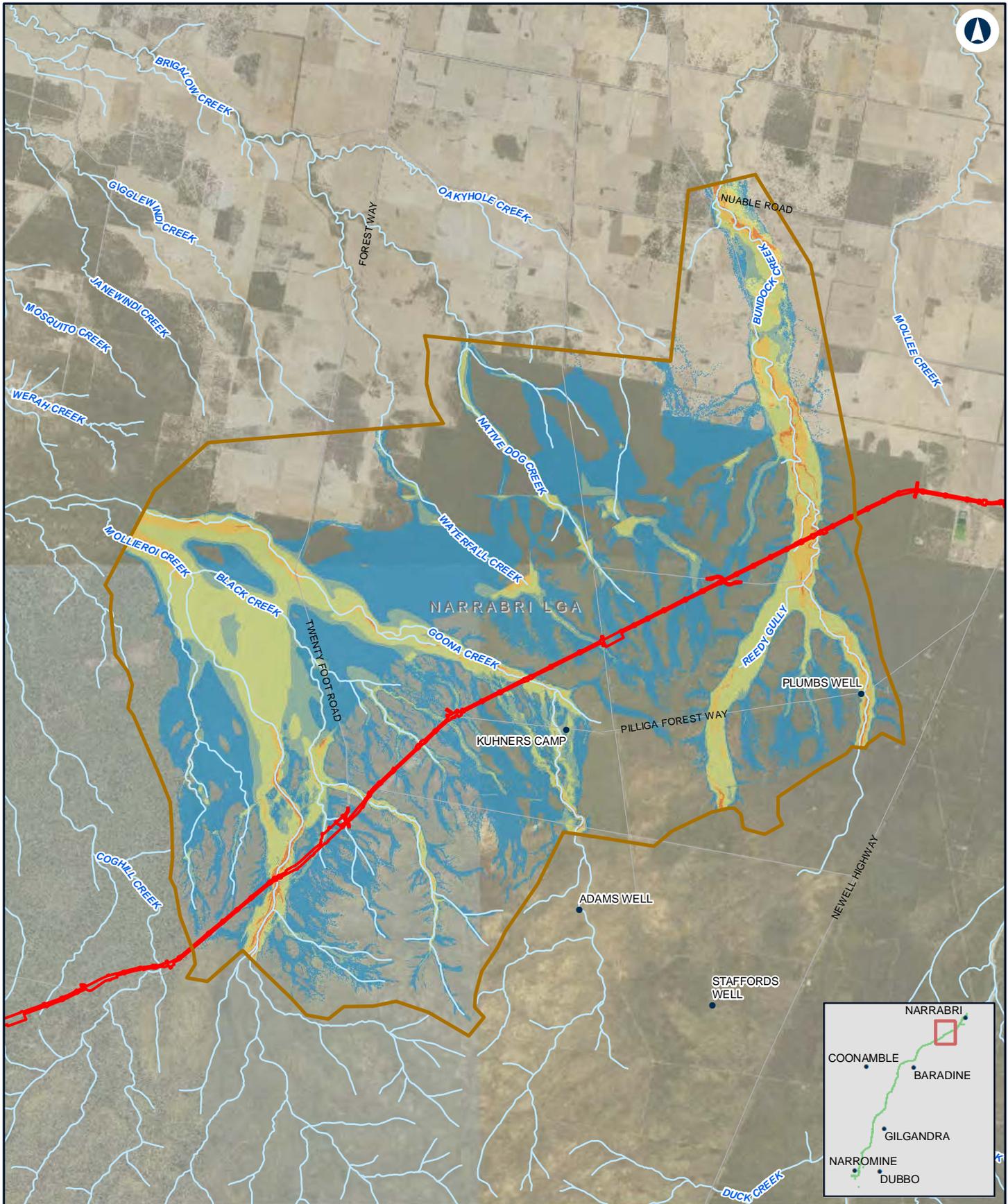
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

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NARROMINE TO NARRABRI

Existing flood hazard - 1% AEP with climate change - N2N23

Appendix D - Figure 4.5I

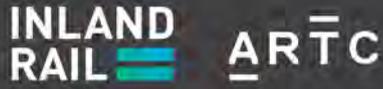


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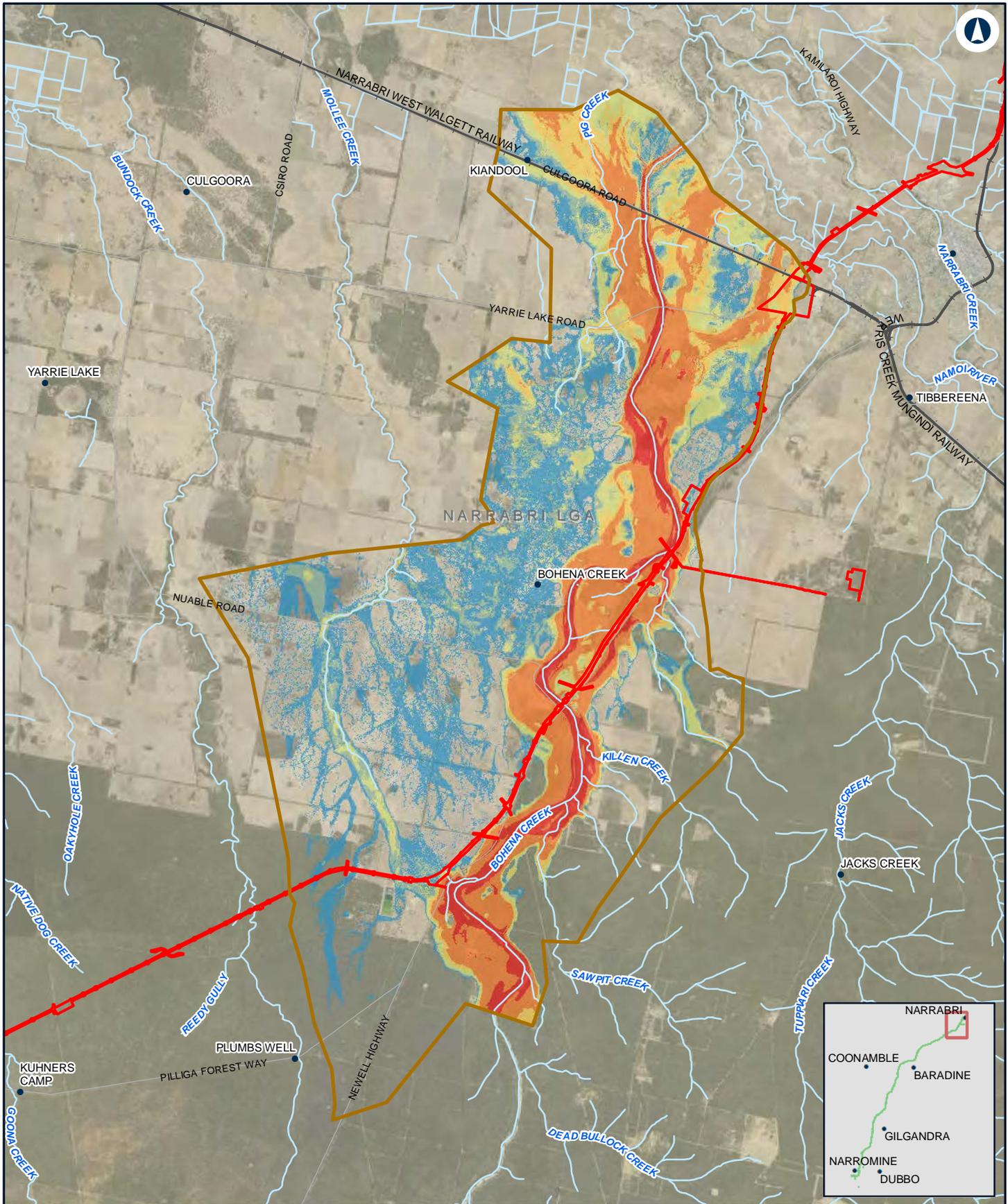
Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:140,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

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NARROMINE TO NARRABRI

Existing flood hazard - 1% AEP with climate change - N2N1

Appendix D - Figure 4.5m

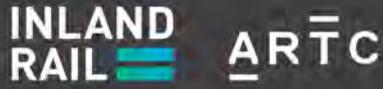


LEGEND

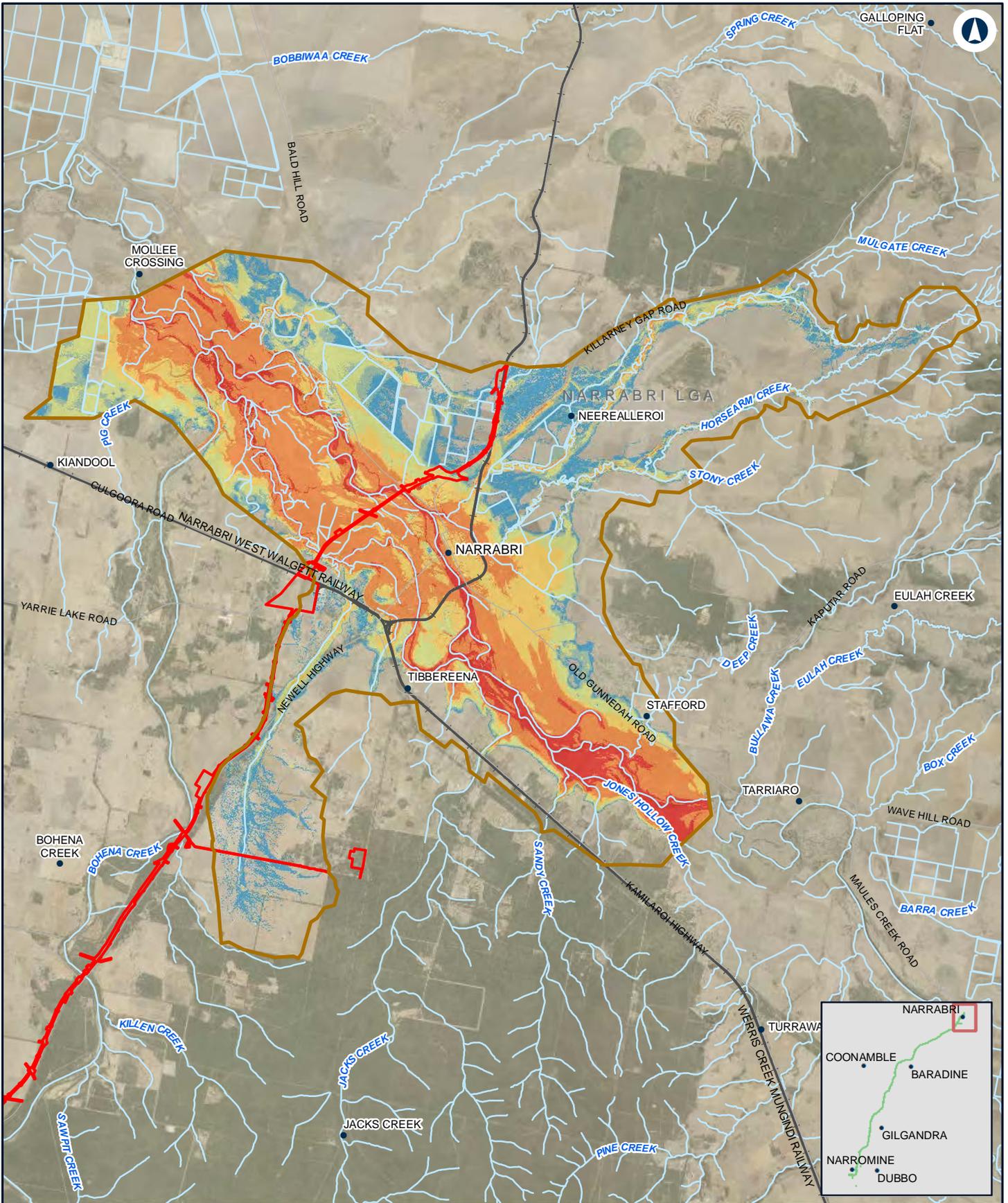
- The proposal site
- Model boundary
- Generally safe for vehicles, people and buildings
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- Unsafe for all people and all vehicles. Buildings require special engineering design and construction
- Unconditionally dangerous

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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:150,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD



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NARROMINE TO NARRABRI

Existing flood hazard - 1% AEP with climate change - Narrabri

Appendix D - Figure 4.5n



Coordinate System: GDA 1994 MGA Zone 55

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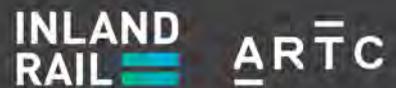
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:160,000

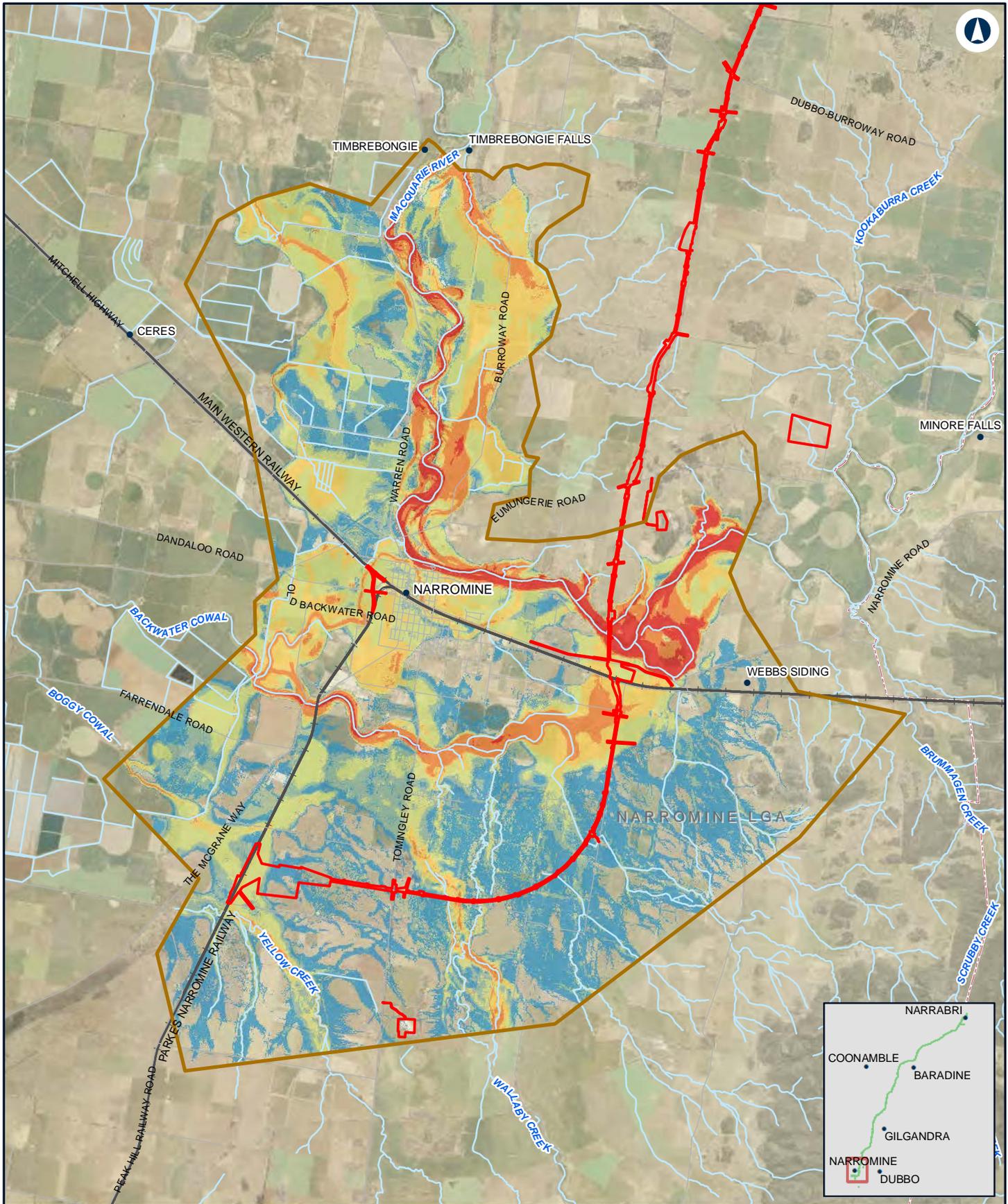
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

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- Model boundary
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- Unconditionally dangerous



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NARROMINE TO NARRABRI

Existing flood hazard - 0.5% AEP - NFM

Appendix D - Figure 4.6a



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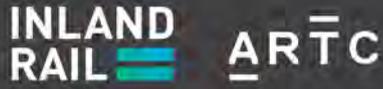
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:140,000

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

LEGEND

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- Unsafe for all people and all vehicles. Buildings require special engineering design and construction
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NARROMINE TO NARRABRI

Existing flood hazard - 0.5% AEP - N2N14

Appendix D - Figure 4.6b

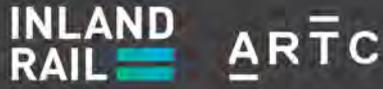


Coordinate System: GDA 1994 MGA Zone 55
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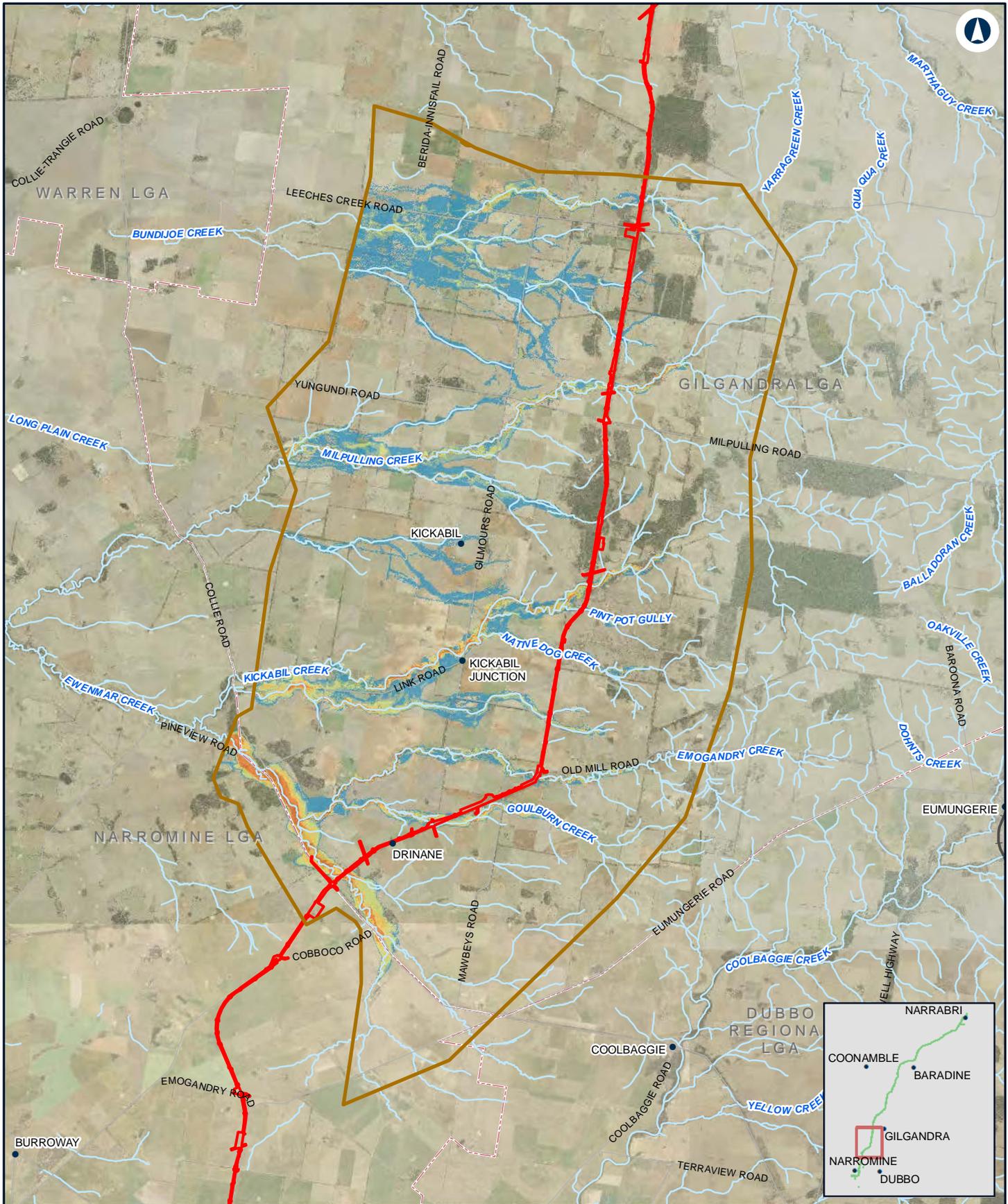
Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:150,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

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- Unconditionally dangerous



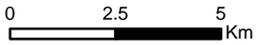
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NARROMINE TO NARRABRI

Existing flood hazard - 0.5% AEP - N2N13

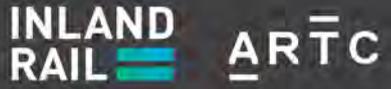
Appendix D - Figure 4.6c



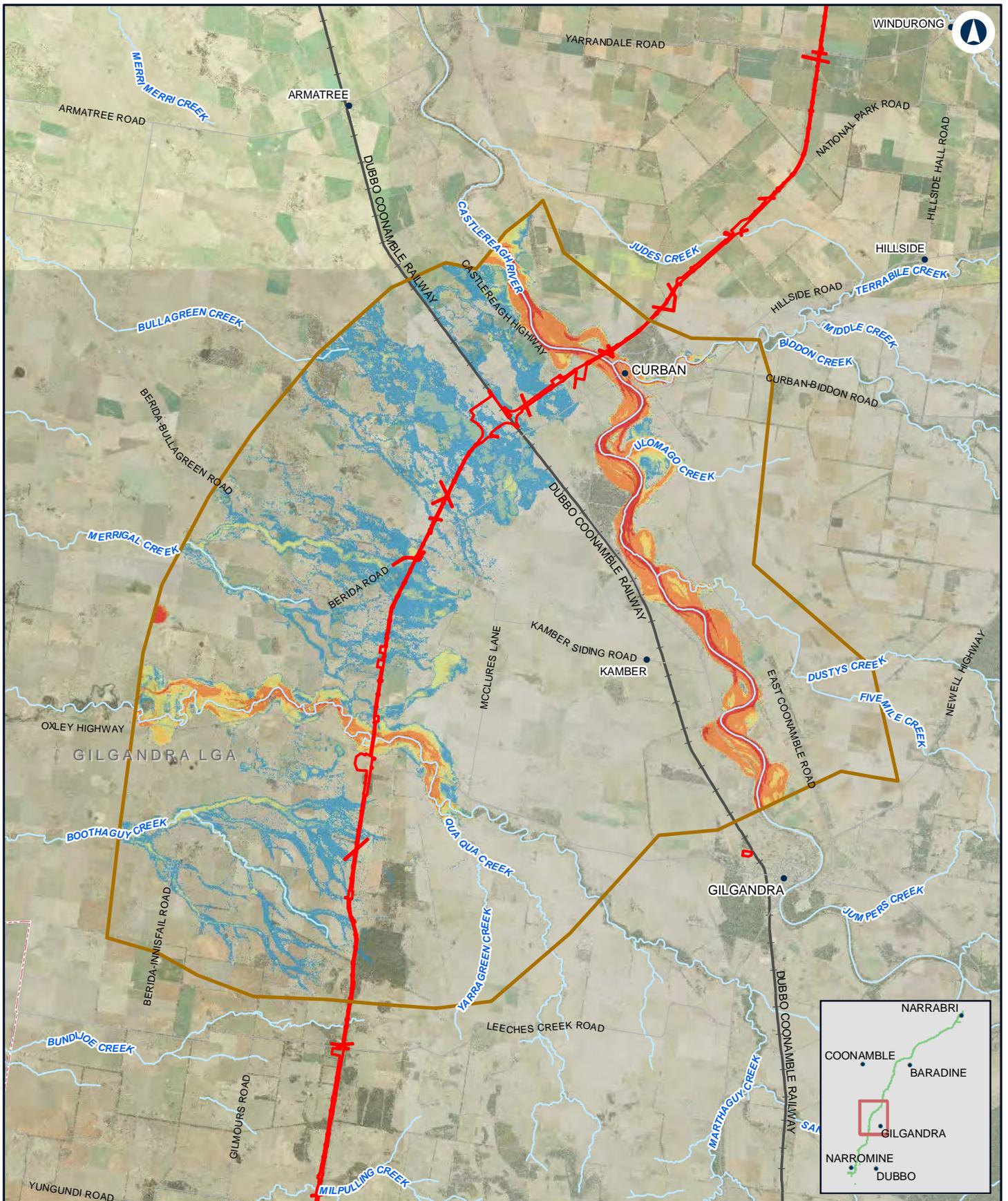
LEGEND

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 Author: JacobsGHD Scale: 1:180,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD



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NARROMINE TO NARRABRI

Existing flood hazard - 0.5% AEP - N2N11N12

Appendix D - Figure 4.6d



Coordinate System: GDA 1994 MGA Zone 55

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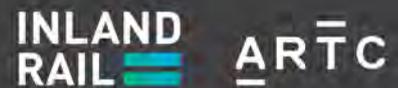
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:200,000

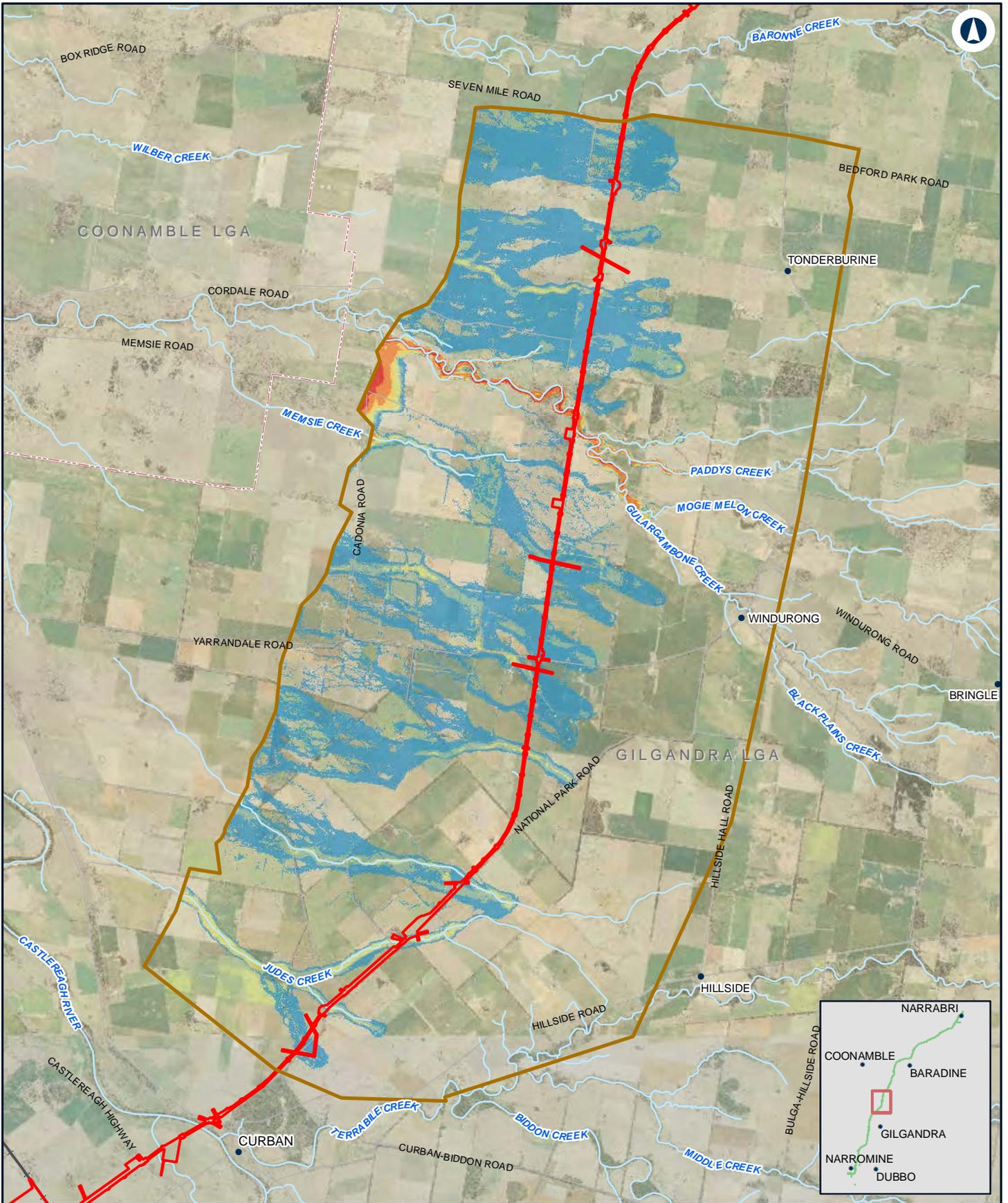
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

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NARROMINE TO NARRABRI

Existing flood hazard - 0.5% AEP - N2N10

Appendix D - Figure 4.6e



Coordinate System: GDA 1994 MGA Zone 55

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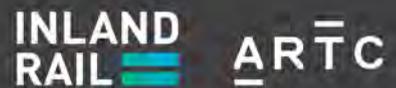
ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information contained within this GIS map.

Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:130,000

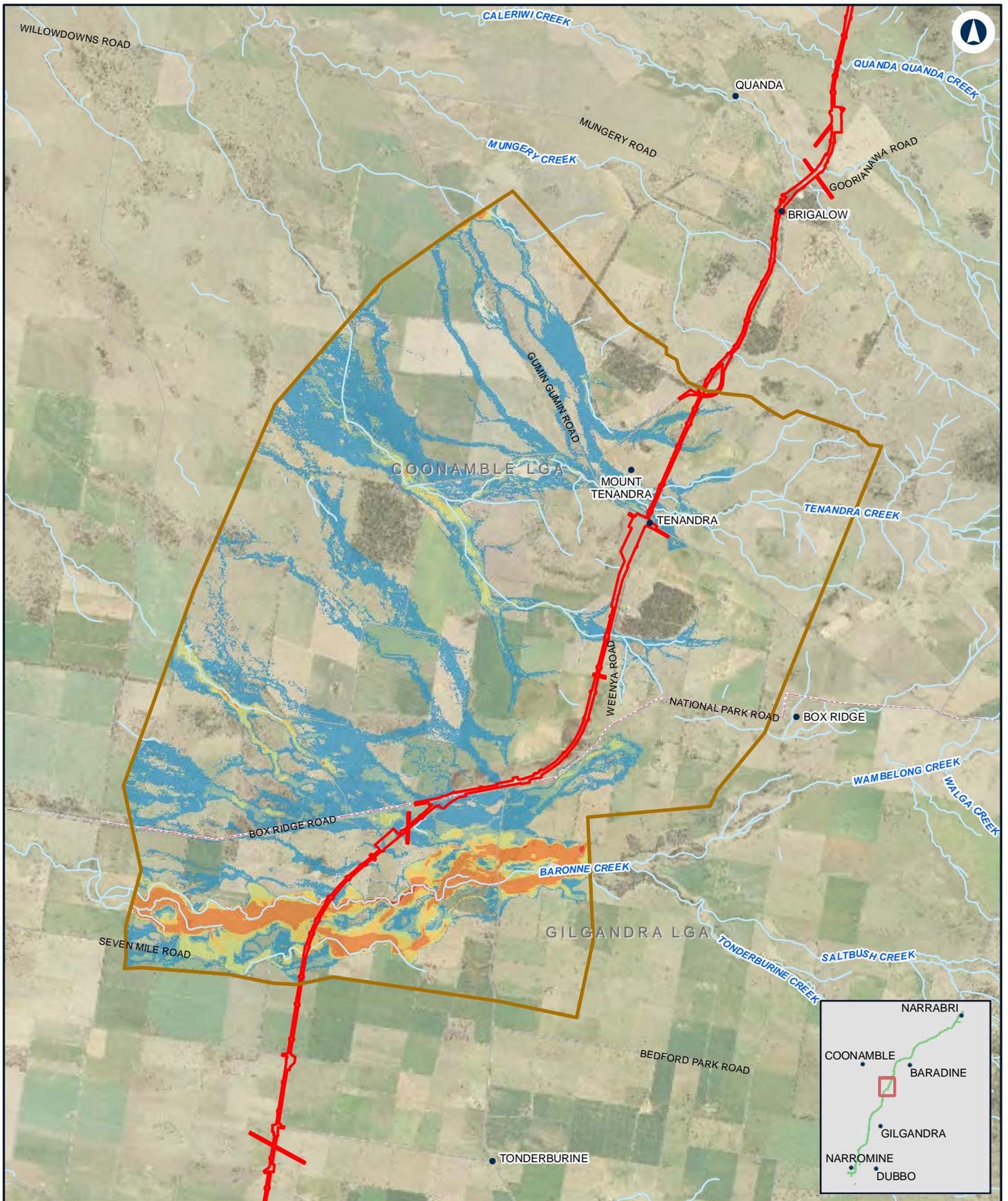
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
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NARROMINE TO NARRABRI

Existing flood hazard - 0.5% AEP - N2N9

Appendix D - Figure 4.6f



Coordinate System: GDA 1994 MGA Zone 55

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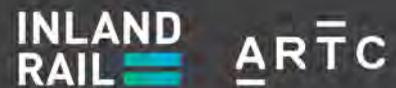
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:110,000

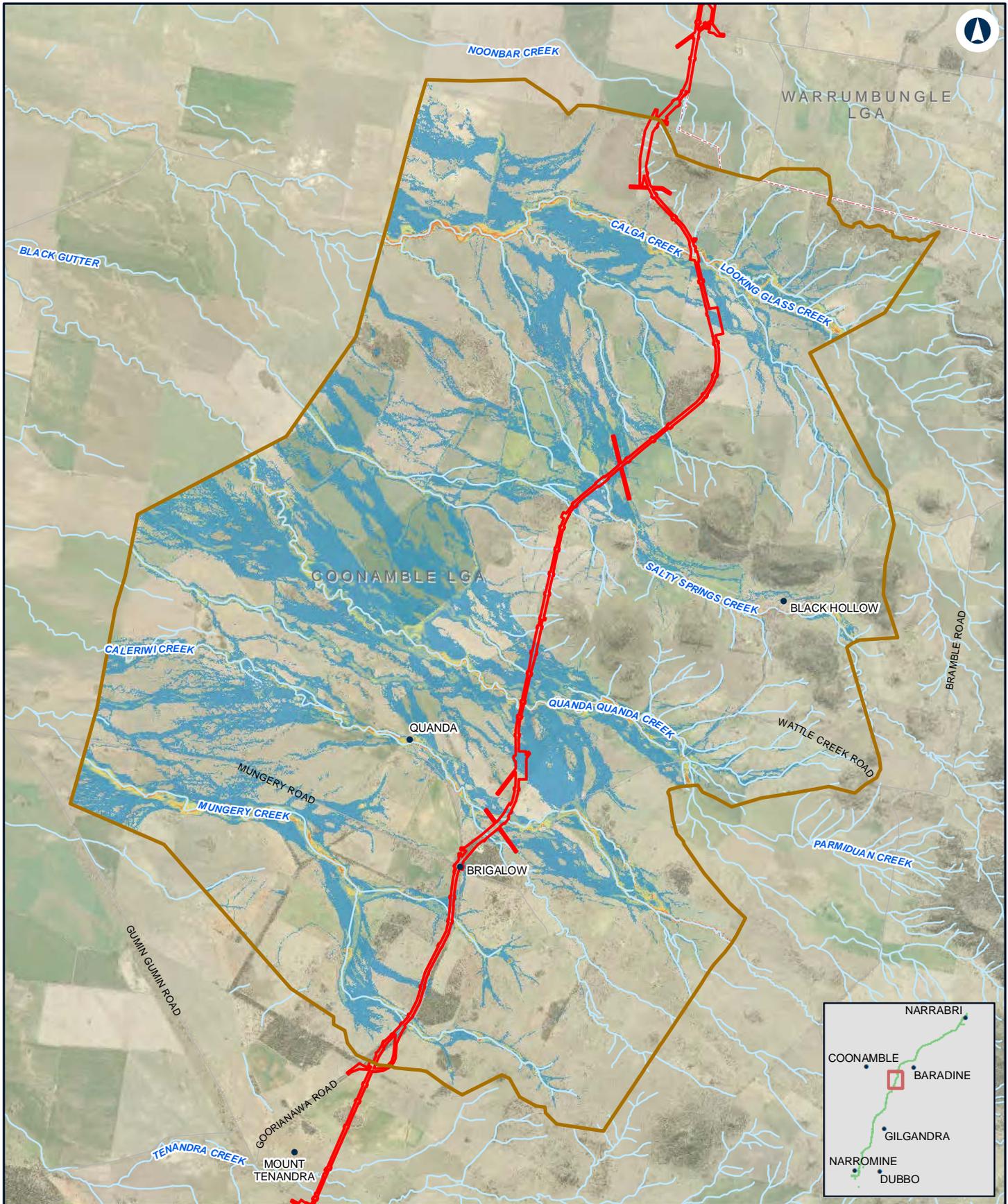
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

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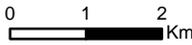
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NARROMINE TO NARRABRI

Existing flood hazard - 0.5% AEP - N2N8

Appendix D - Figure 4.6g

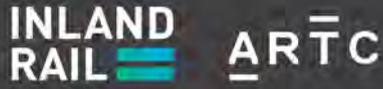


Coordinate System: GDA 1994 MGA Zone 55
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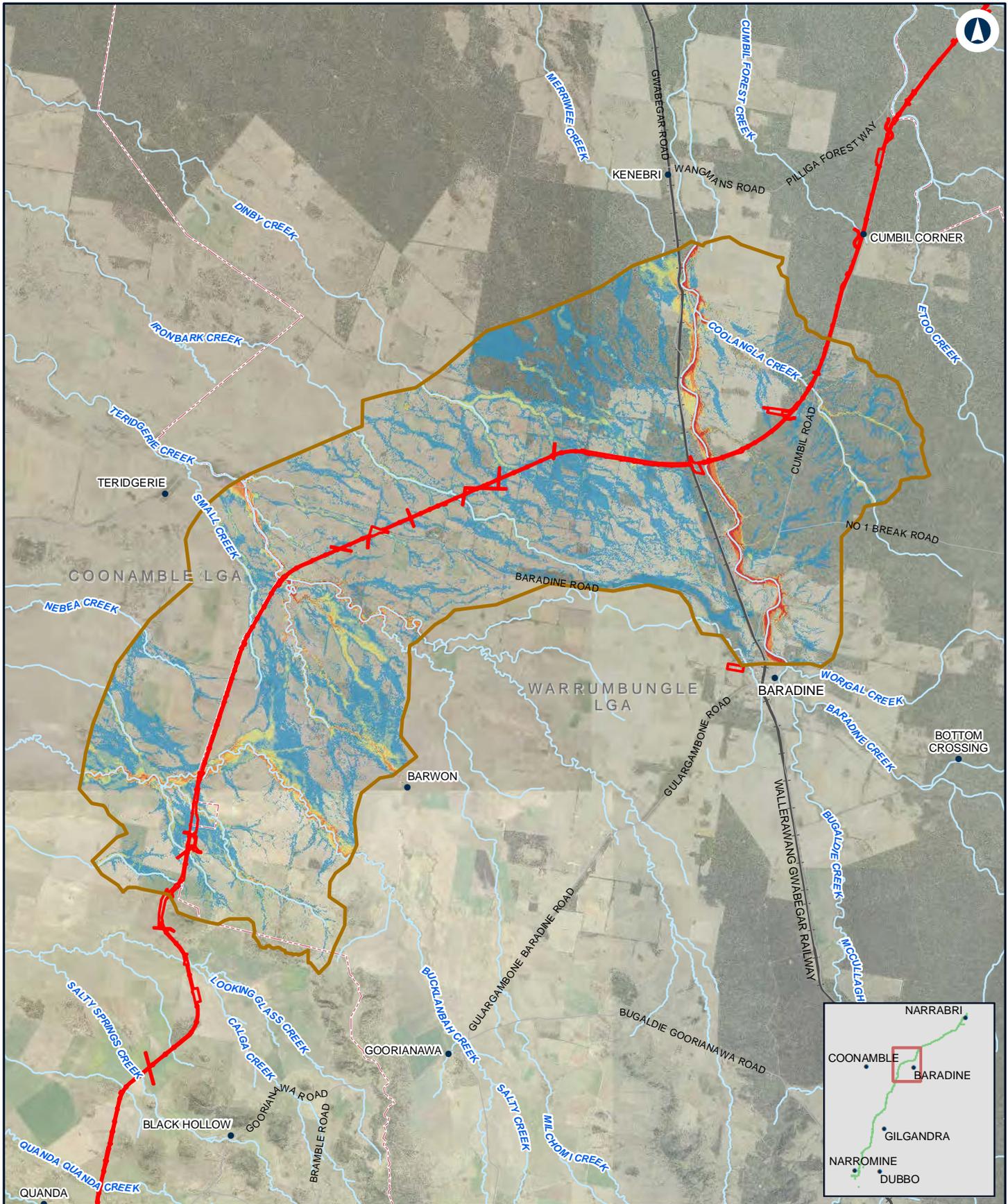
Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:100,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

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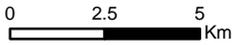
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NARROMINE TO NARRABRI

Existing flood hazard - 0.5% AEP - N2N7

Appendix D - Figure 4.6h



Coordinate System: GDA 1994 MGA Zone 55

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 Author: JacobsGHD Scale: 1:200,000

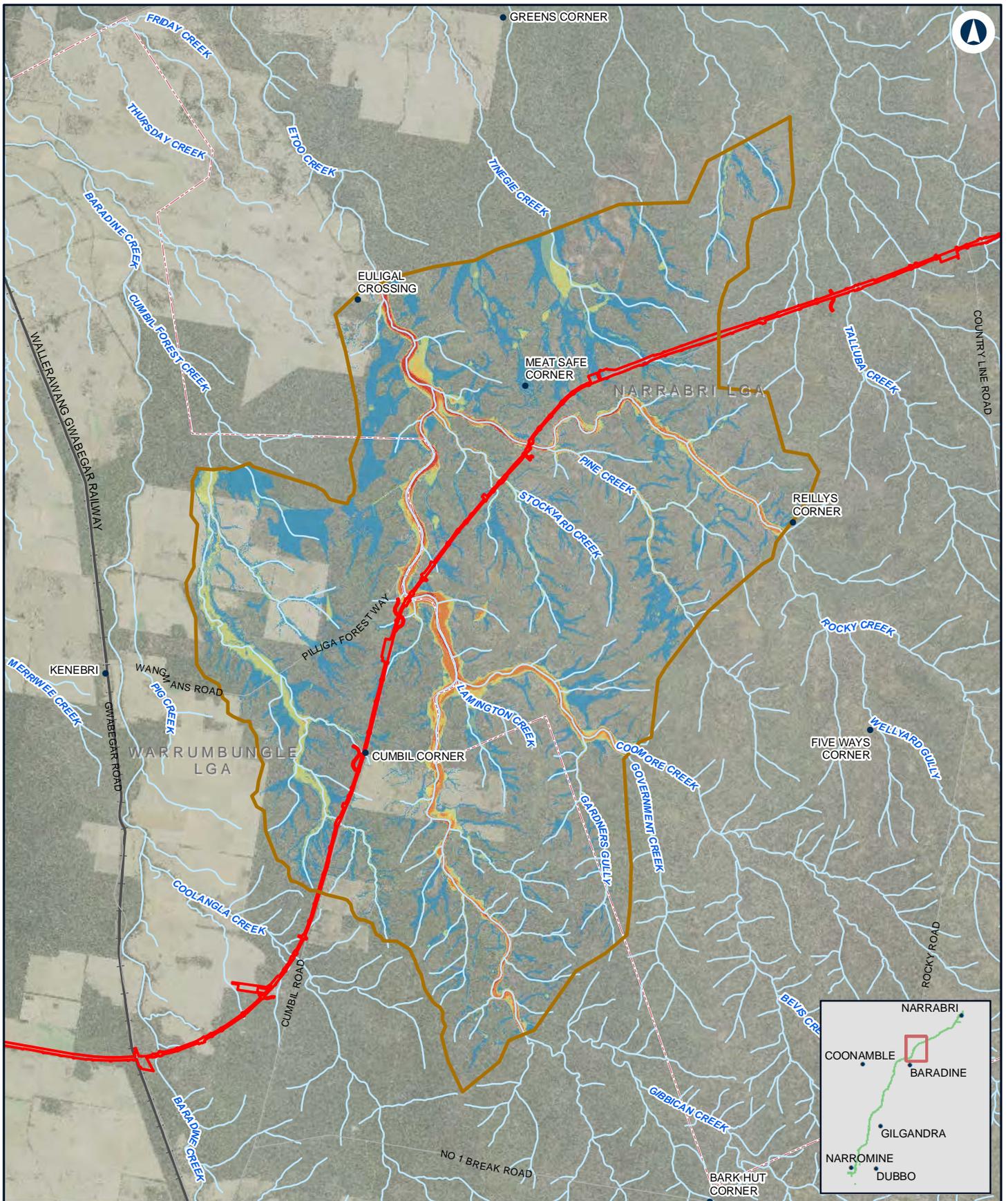
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
- Generally safe for vehicles, people and buildings
- Unsafe for small vehicles
- Unsafe for vehicles, children and the elderly
- Unsafe for all people and all vehicles. Buildings require special engineering design and construction
- Unconditionally dangerous



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NARROMINE TO NARRABRI

Existing flood hazard - 0.5% AEP - N2N6

Appendix D - Figure 4.6i



Coordinate System: GDA 1994 MGA Zone 55

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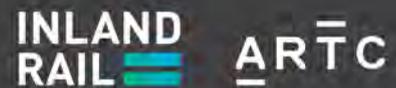
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:150,000

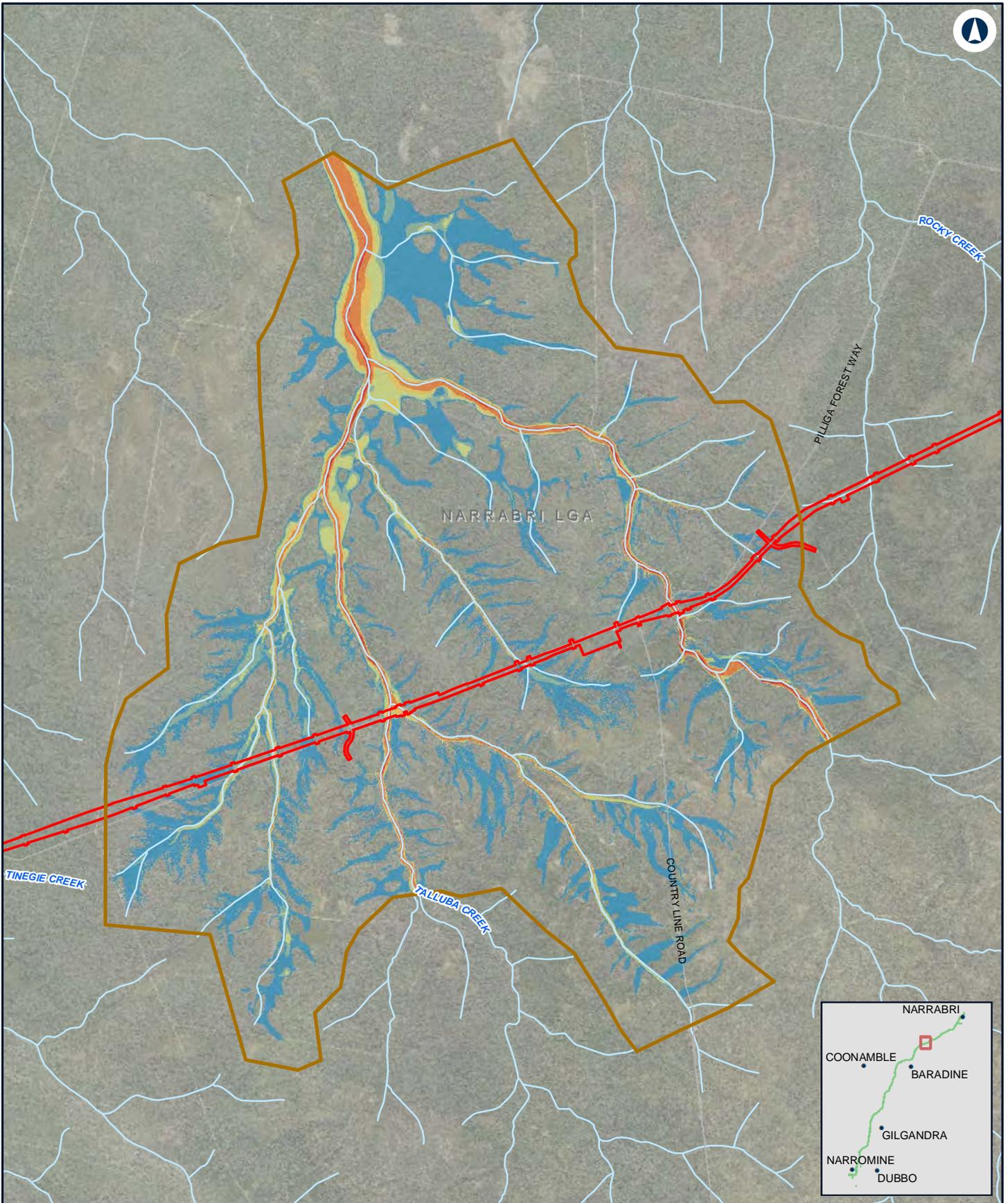
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

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NARROMINE TO NARRABRI

Existing flood hazard - 0.5% AEP - N2N5

Appendix D - Figure 4.6j



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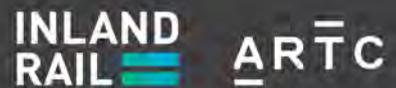
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:70,000

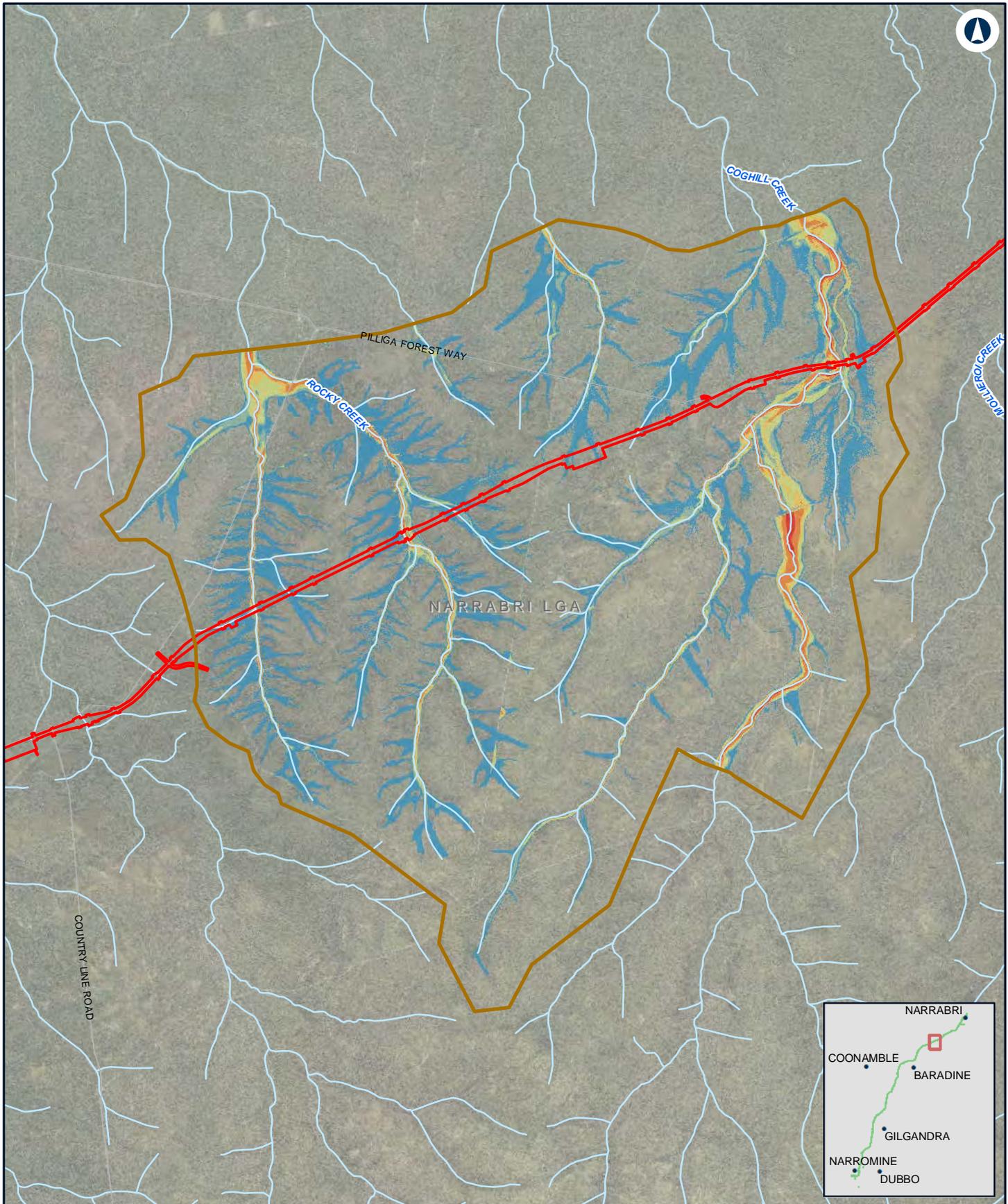
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

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NARROMINE TO NARRABRI

Existing flood hazard - 0.5% AEP - N2N4

Appendix D - Figure 4.6k



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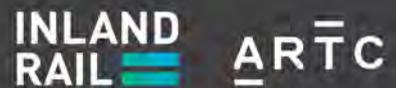
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 Author: JacobsGHD Scale: 1:80,000

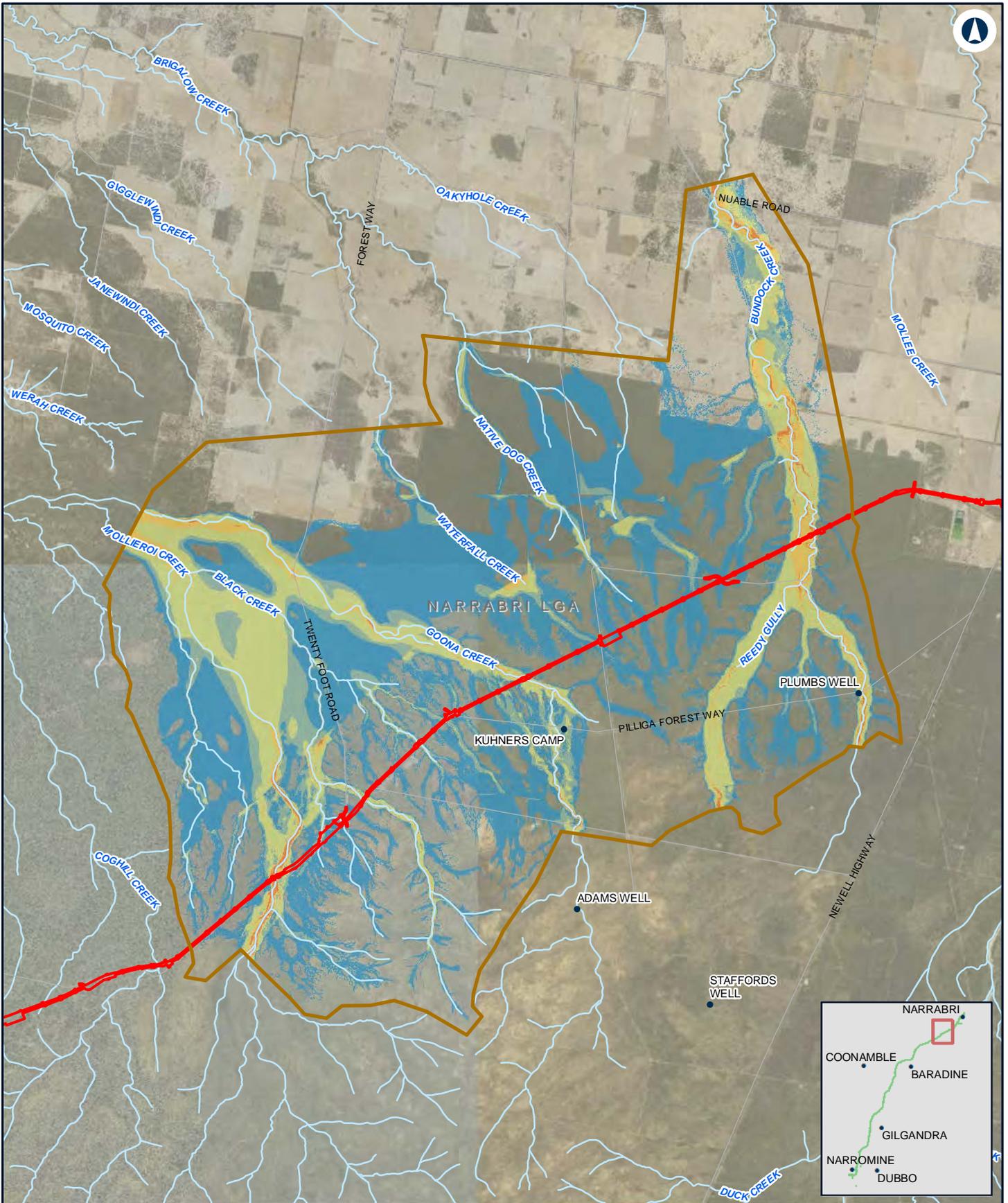
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

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NARROMINE TO NARRABRI

Existing flood hazard - 0.5% AEP - N2N23

Appendix D - Figure 4.6I



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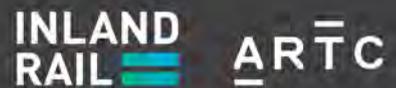
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:140,000

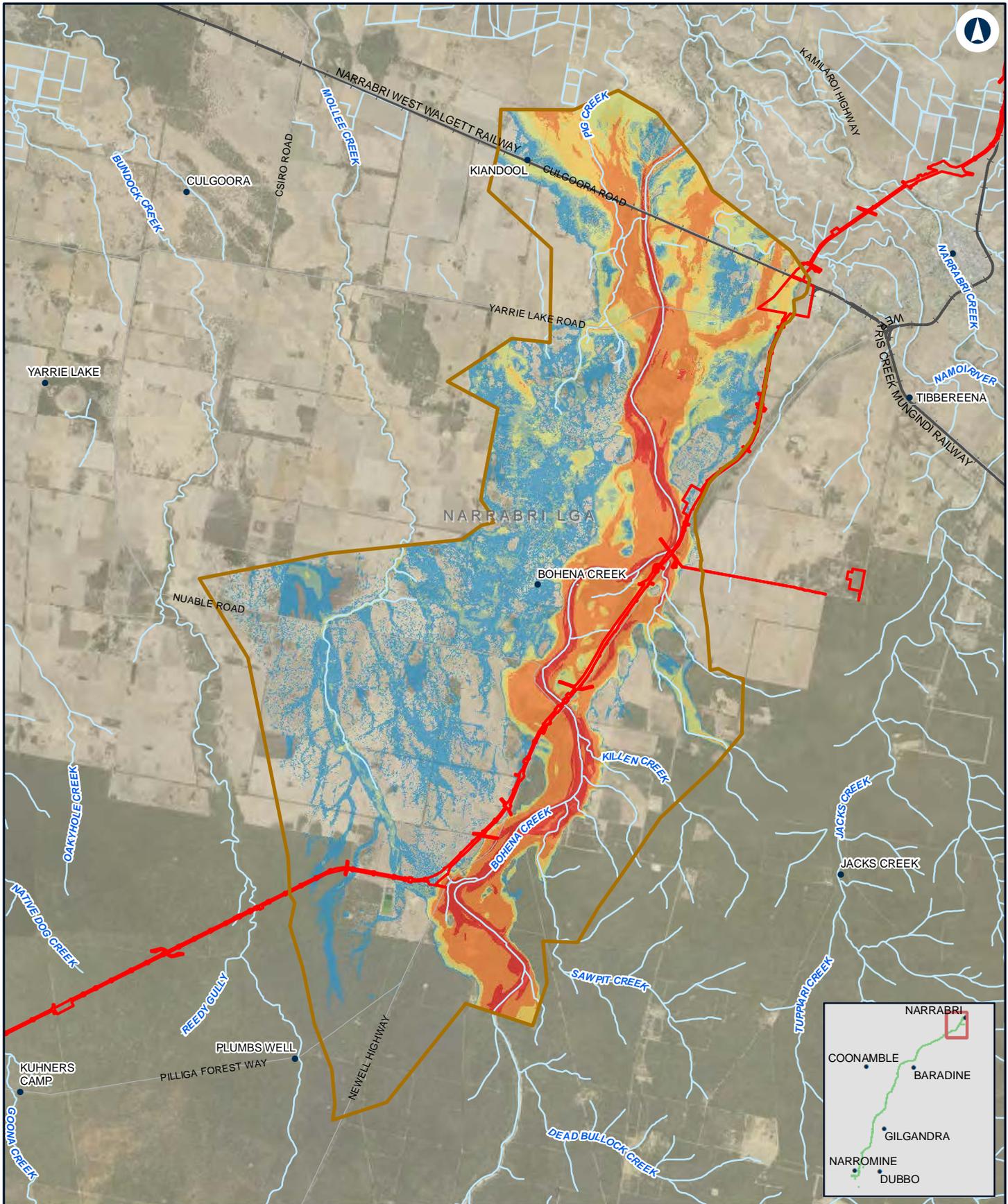
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

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NARROMINE TO NARRABRI

Existing flood hazard - 0.5% AEP - N2N1

Appendix D - Figure 4.6m



LEGEND

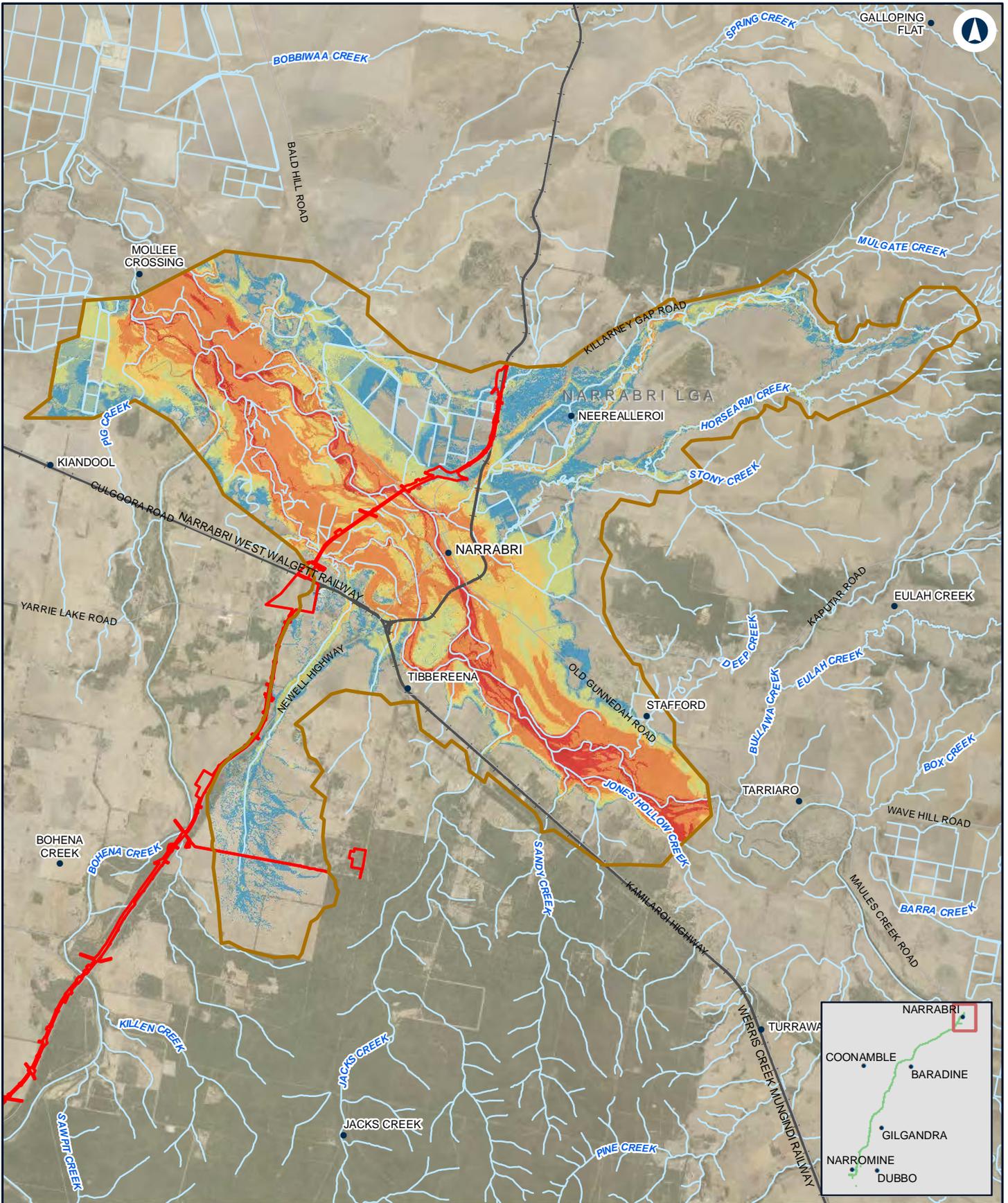
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- Model boundary
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:150,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD



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NARROMINE TO NARRABRI

Existing flood hazard - 0.5% AEP - Narrabri

Appendix D - Figure 4.6n



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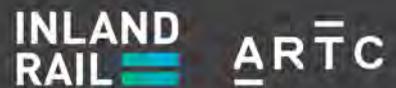
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:160,000

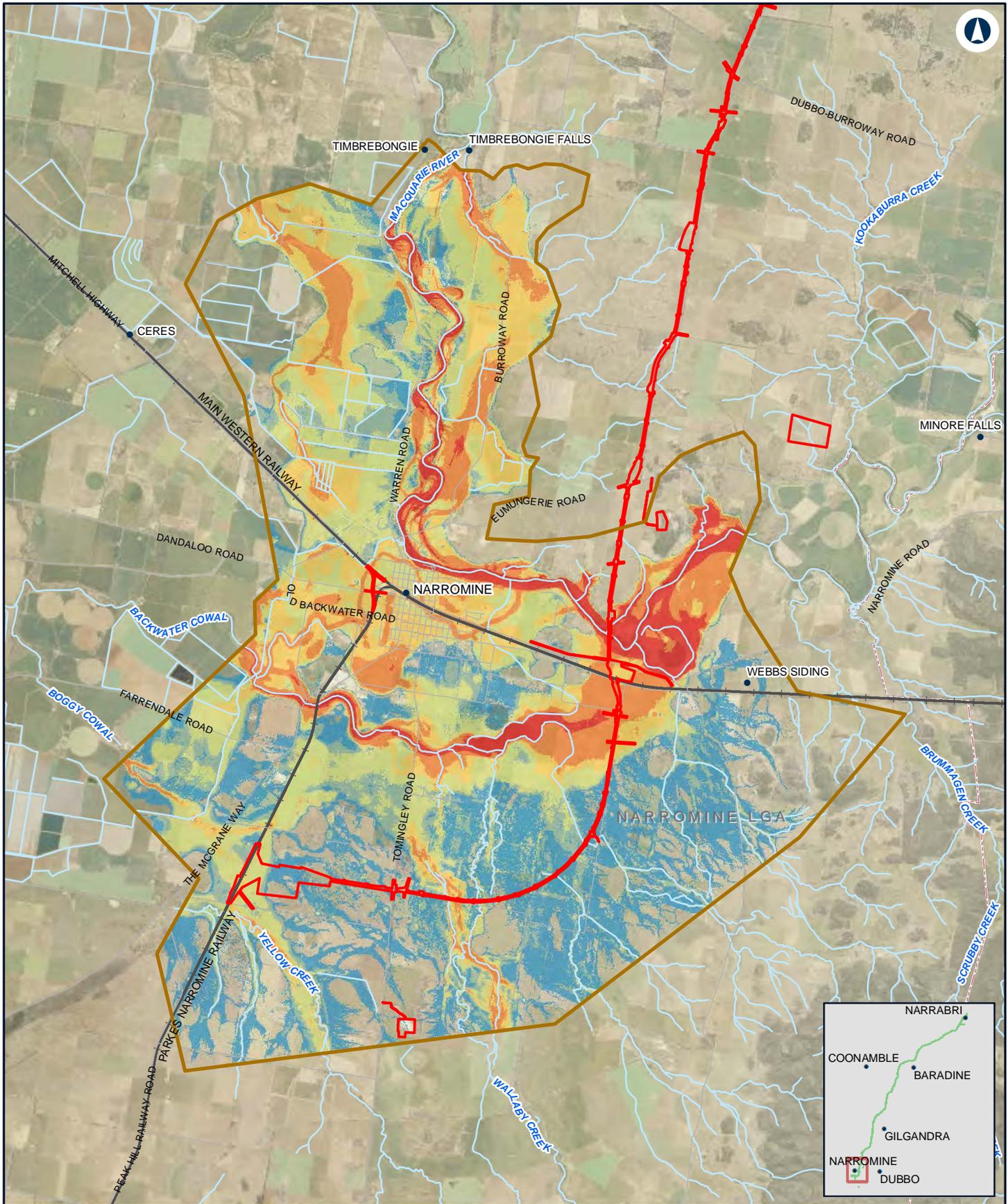
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

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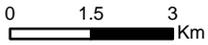
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NARROMINE TO NARRABRI

Existing flood hazard - 0.2% AEP - NFM

Appendix D - Figure 4.7a



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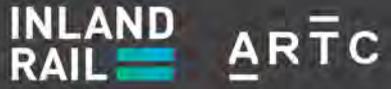
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:140,000

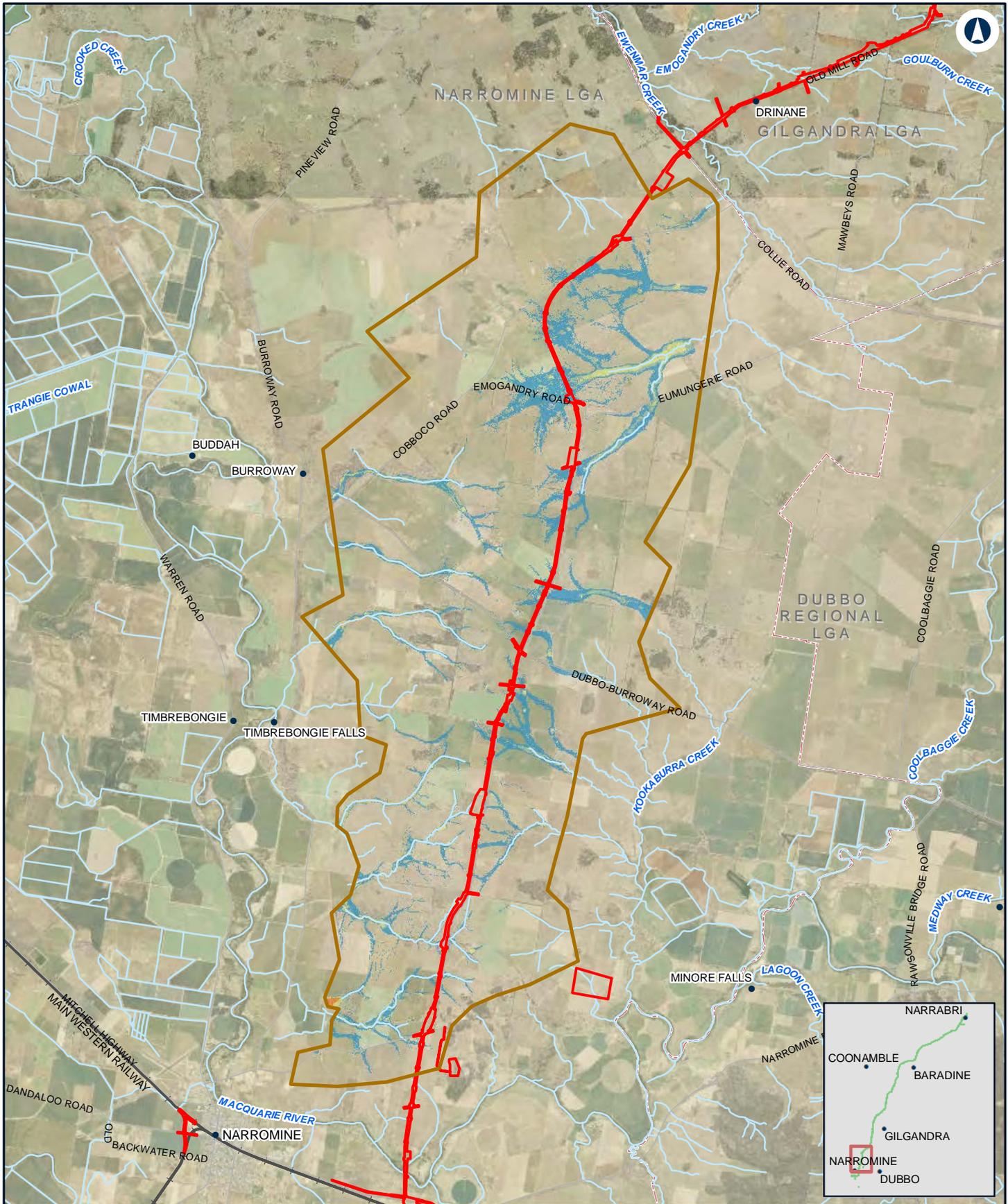
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

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NARROMINE TO NARRABRI

Existing flood hazard - 0.2% AEP - N2N14

Appendix D - Figure 4.7b



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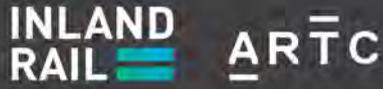
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:150,000

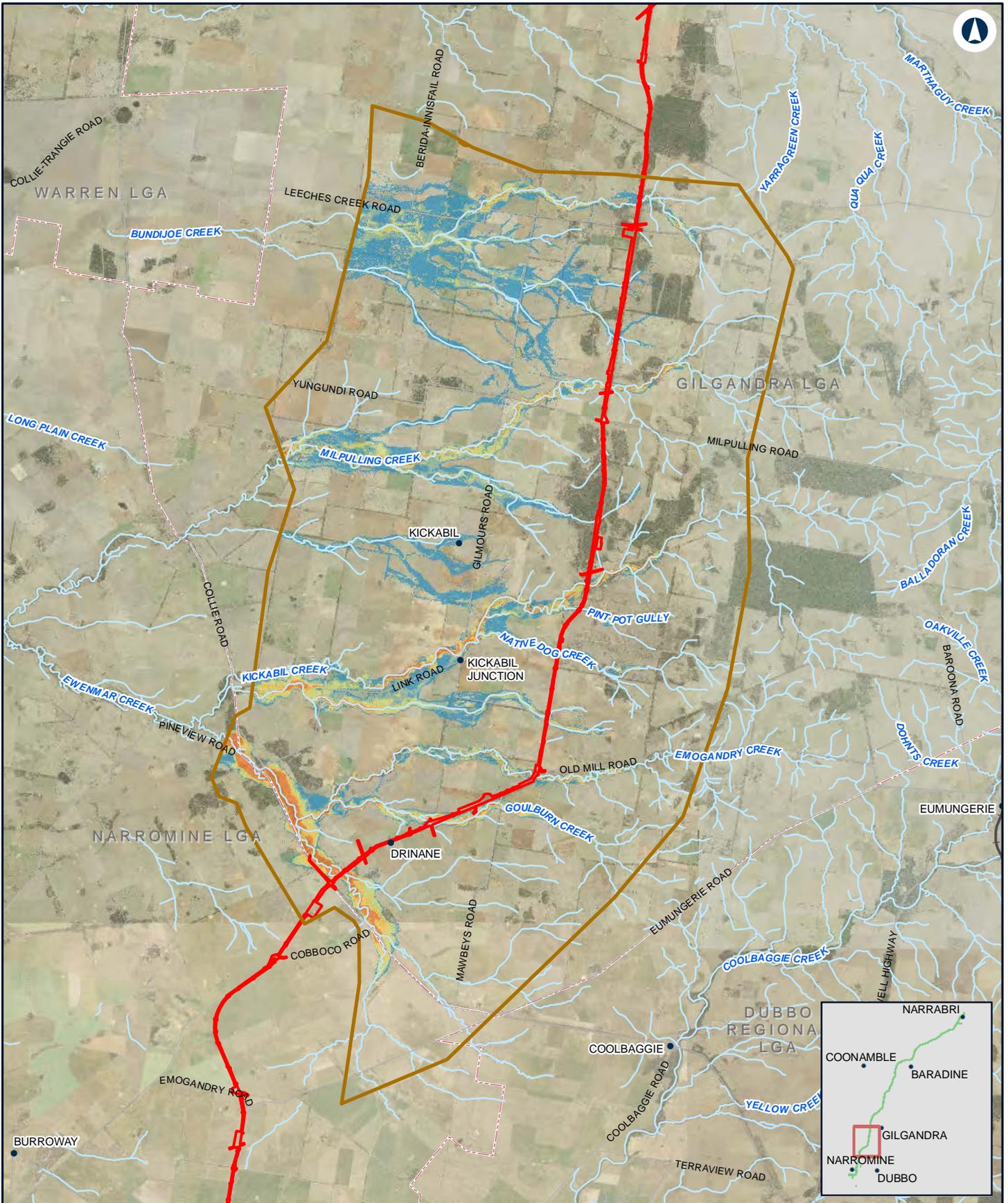
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

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NARROMINE TO NARRABRI

Existing flood hazard - 0.2% AEP - N2N13

Appendix D - Figure 4.7c



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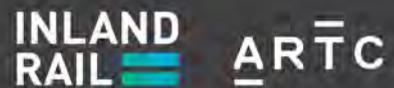
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:180,000

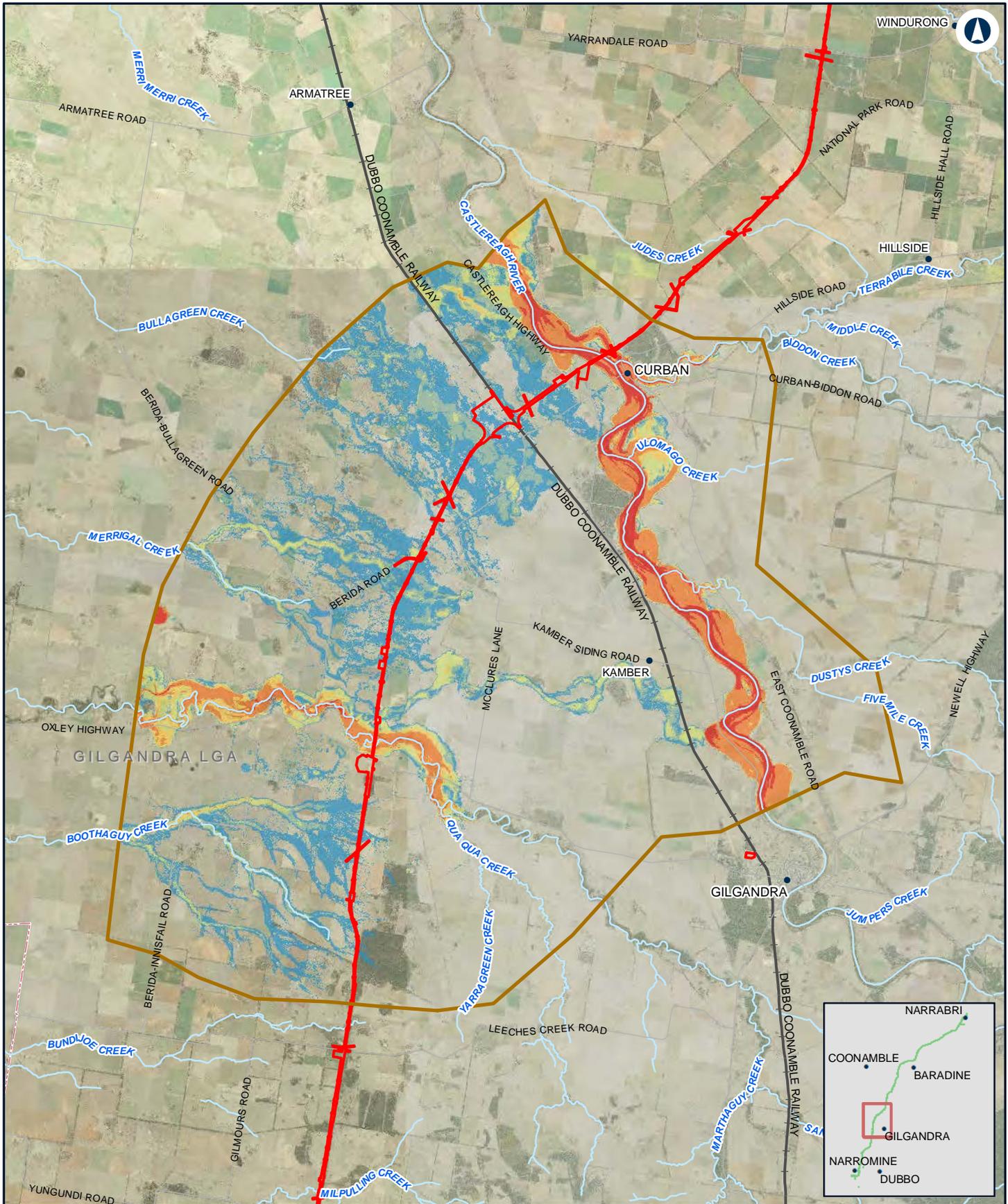
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- ▬ The proposal site
- ▬ Model boundary
- ▬ Generally safe for vehicles, people and buildings
- ▬ Unsafe for small vehicles
- ▬ Unsafe for vehicles, children and the elderly
- ▬ Unsafe for all people and all vehicles. Buildings require special engineering design and construction
- ▬ Unconditionally dangerous



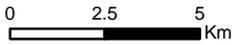
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NARROMINE TO NARRABRI

Existing flood hazard - 0.2% AEP - N2N11N12

Appendix D - Figure 4.7d



Coordinate System: GDA 1994 MGA Zone 55

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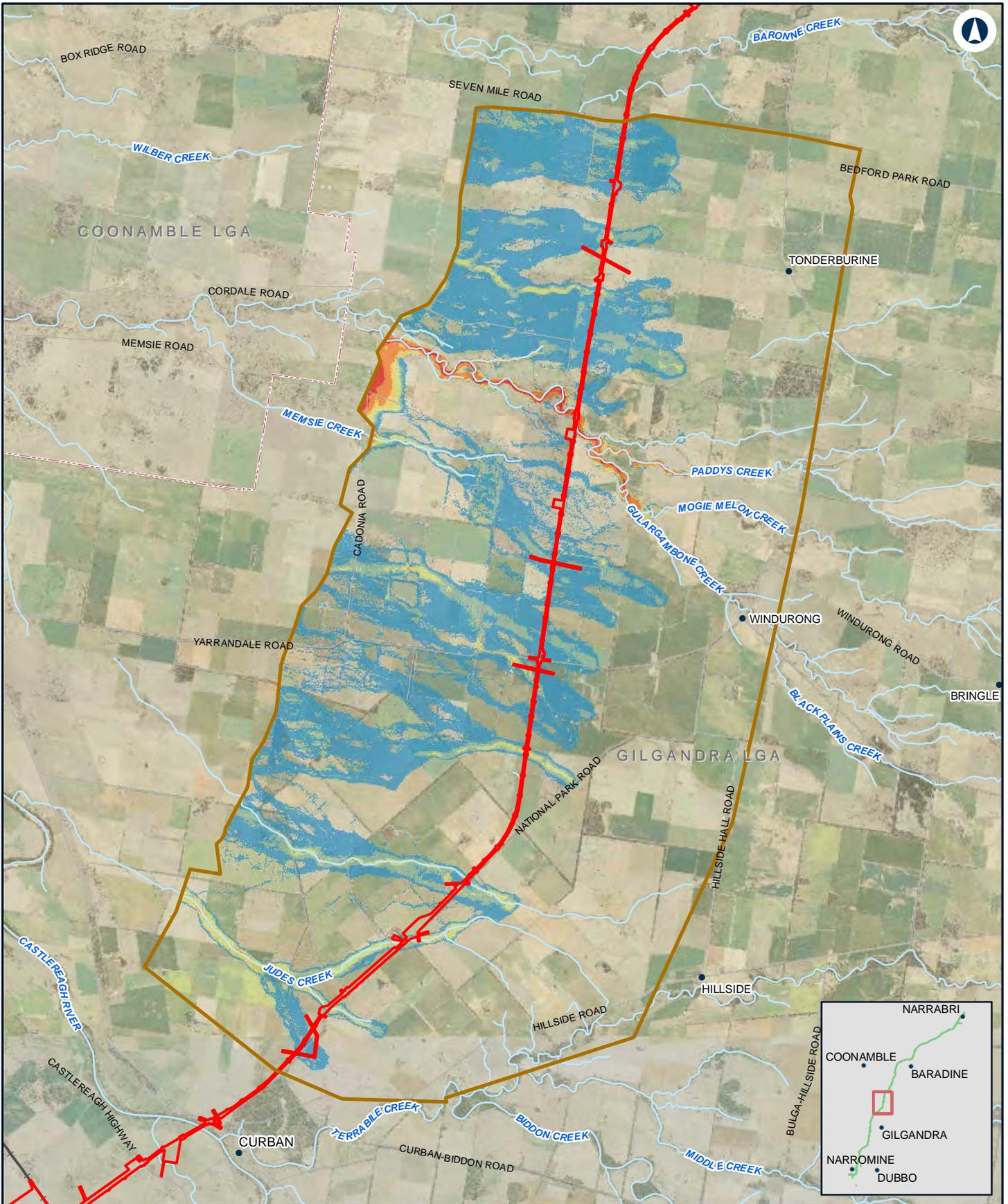
Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:200,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

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NARROMINE TO NARRABRI

Existing flood hazard - 0.2% AEP - N2N10

Appendix D - Figure 4.7e



Coordinate System: GDA 1994 MGA Zone 55

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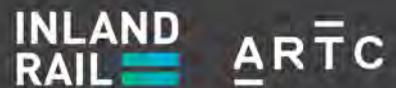
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:130,000

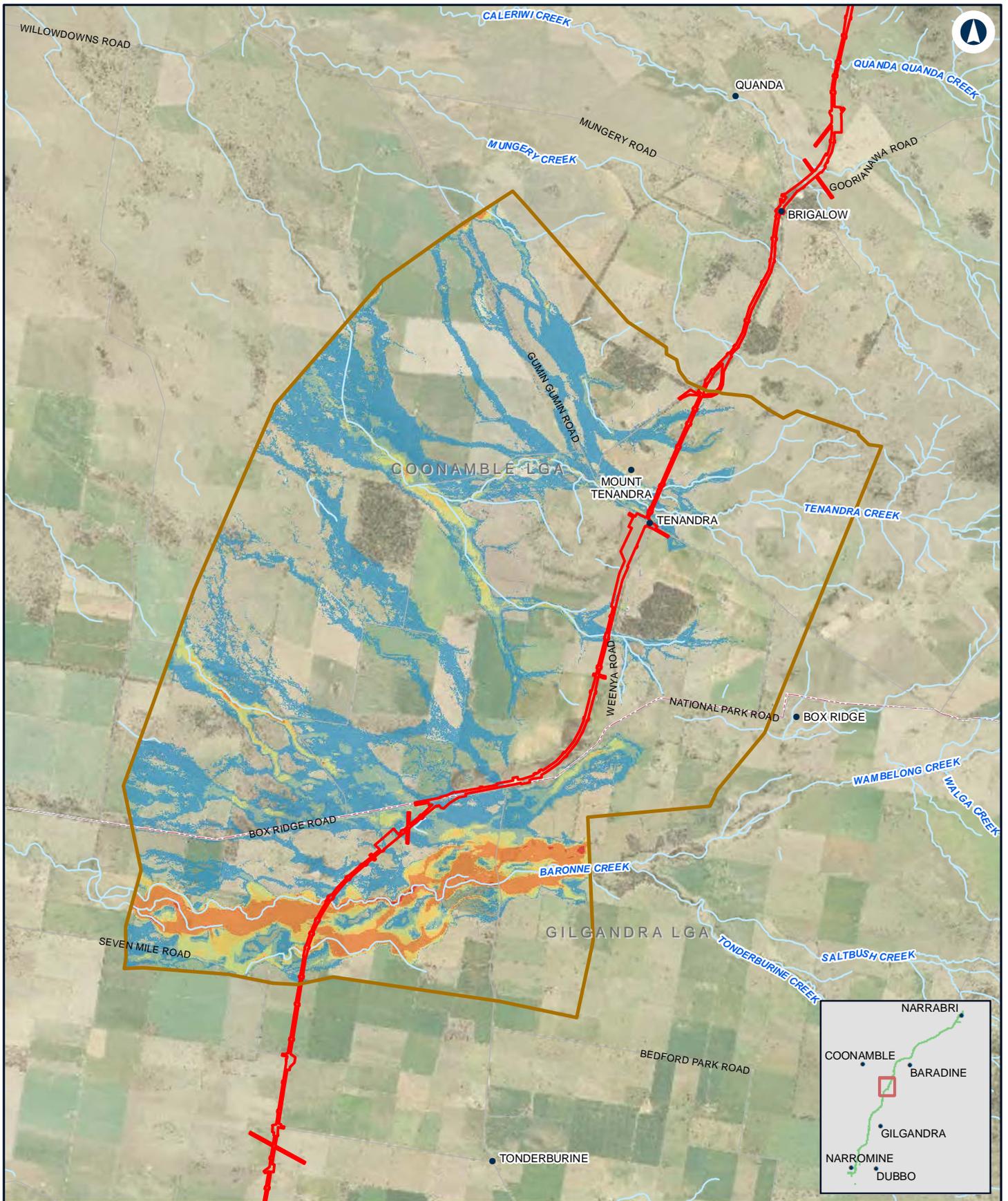
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

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NARROMINE TO NARRABRI

Existing flood hazard - 0.2% AEP - N2N9

Appendix D - Figure 4.7f



Coordinate System: GDA 1994 MGA Zone 55

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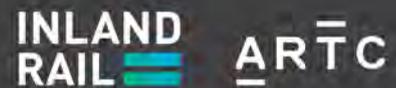
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:110,000

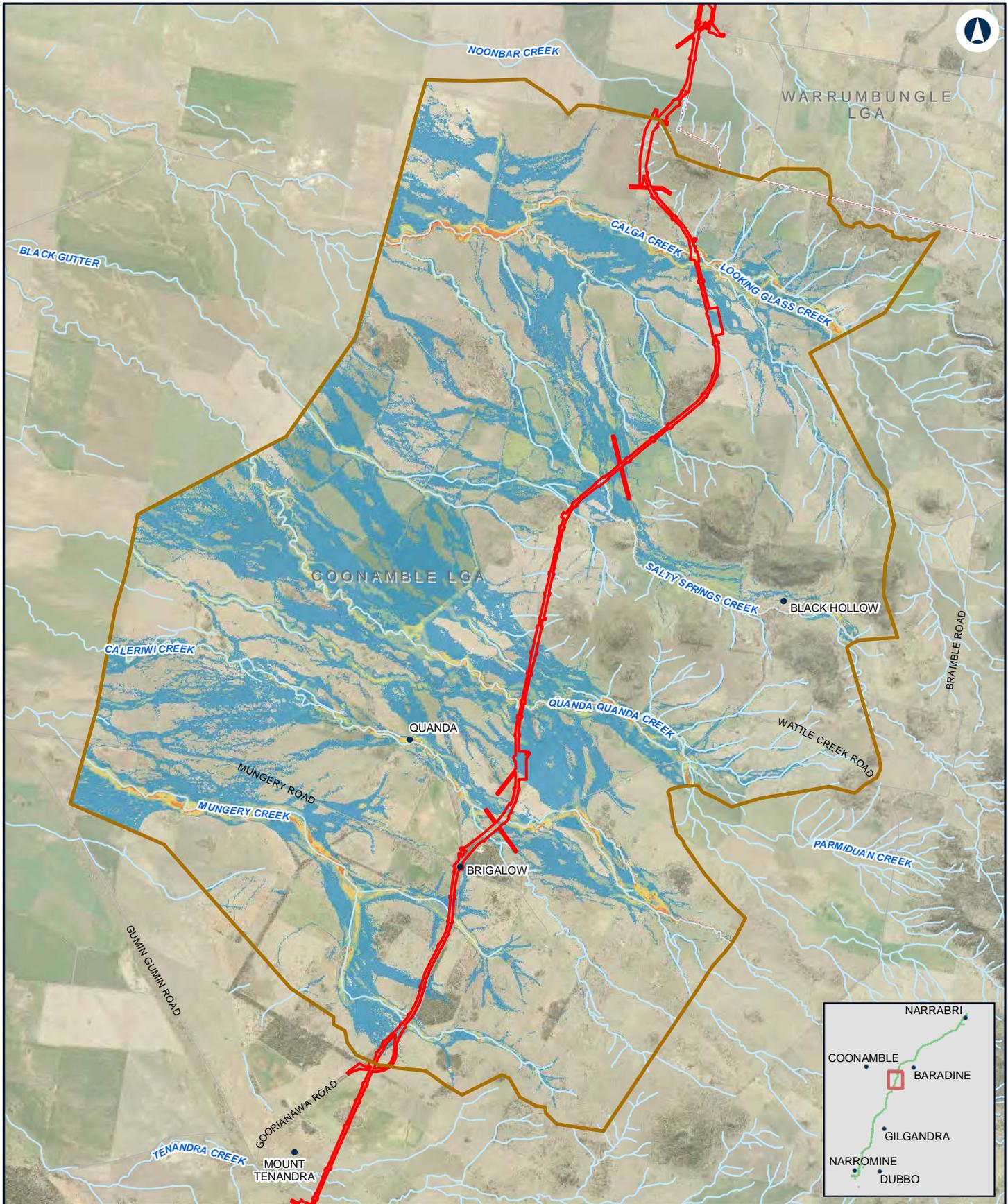
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

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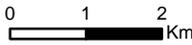
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NARRIMINE TO NARRABRI

Existing flood hazard - 0.2% AEP - N2N8

Appendix D - Figure 4.7g



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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:100,000

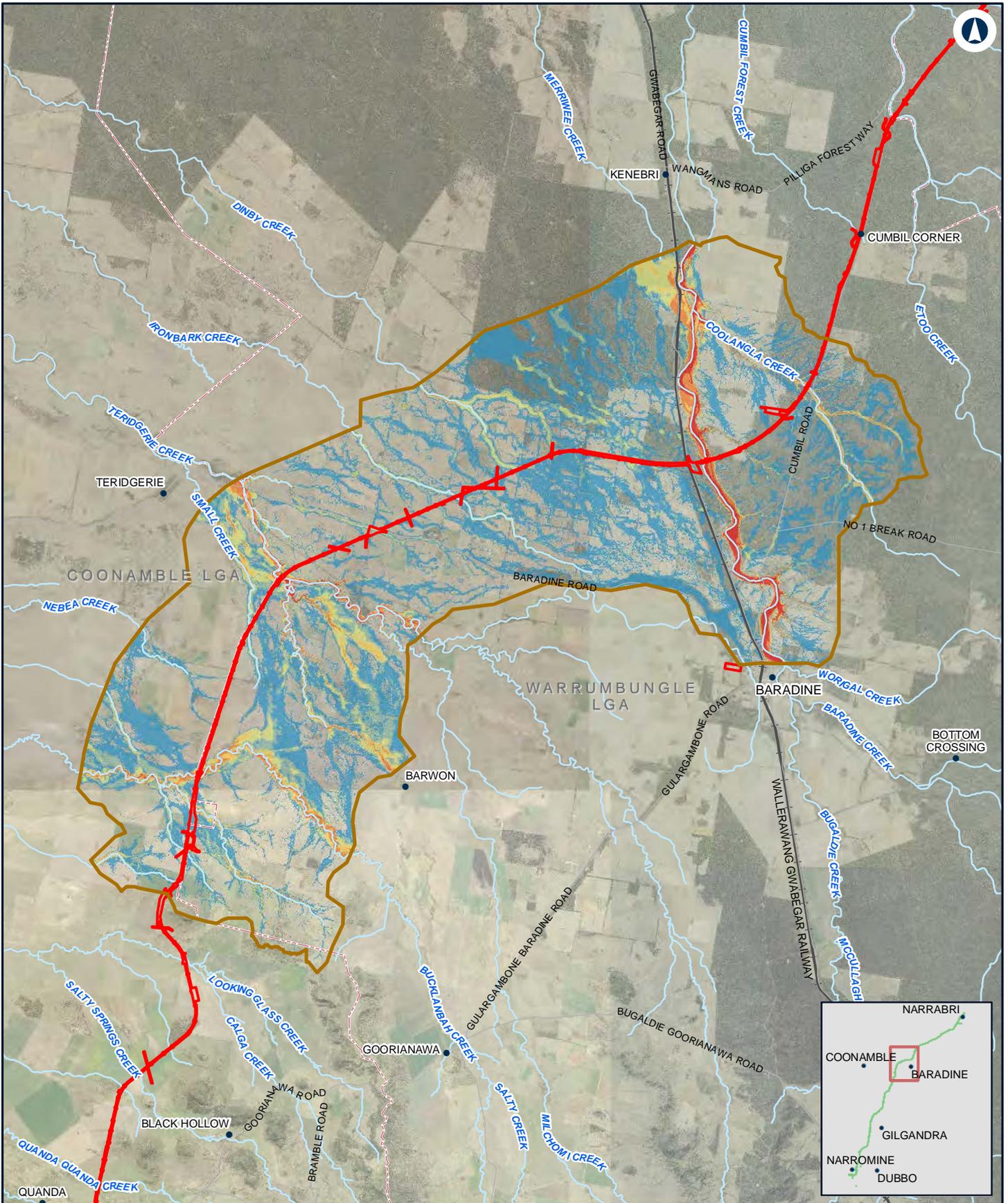
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

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NARROMINE TO NARRABRI

Existing flood hazard - 0.2% AEP - N2N7

Appendix D - Figure 4.7h



Coordinate System: GDA 1994 MGA Zone 55

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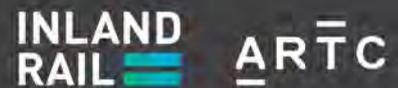
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:200,000

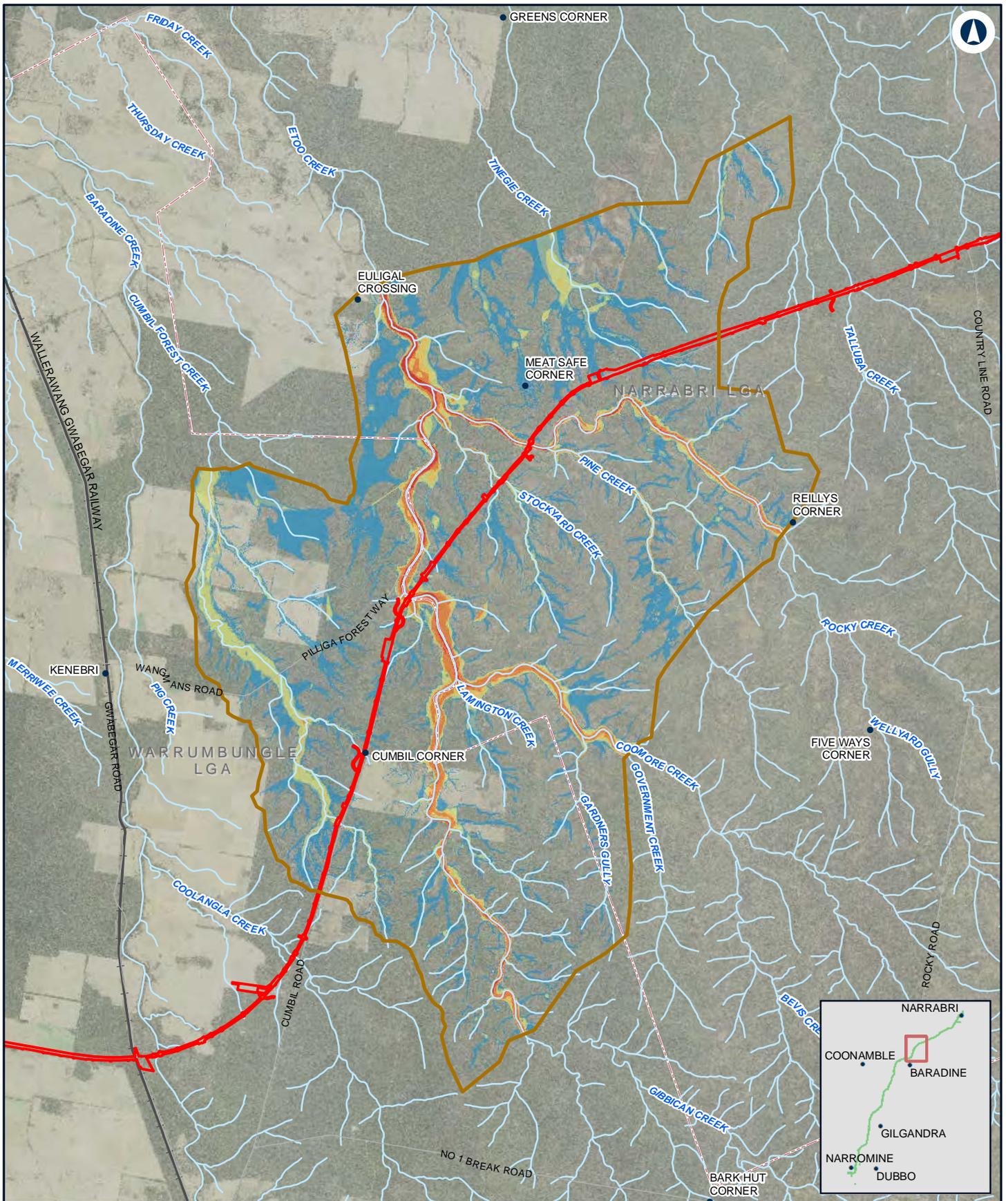
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

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NARROMINE TO NARRABRI

Existing flood hazard - 0.2% AEP - N2N6

Appendix D - Figure 4.7i



Coordinate System: GDA 1994 MGA Zone 55

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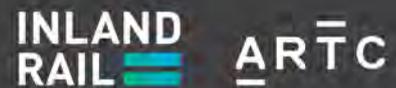
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:150,000

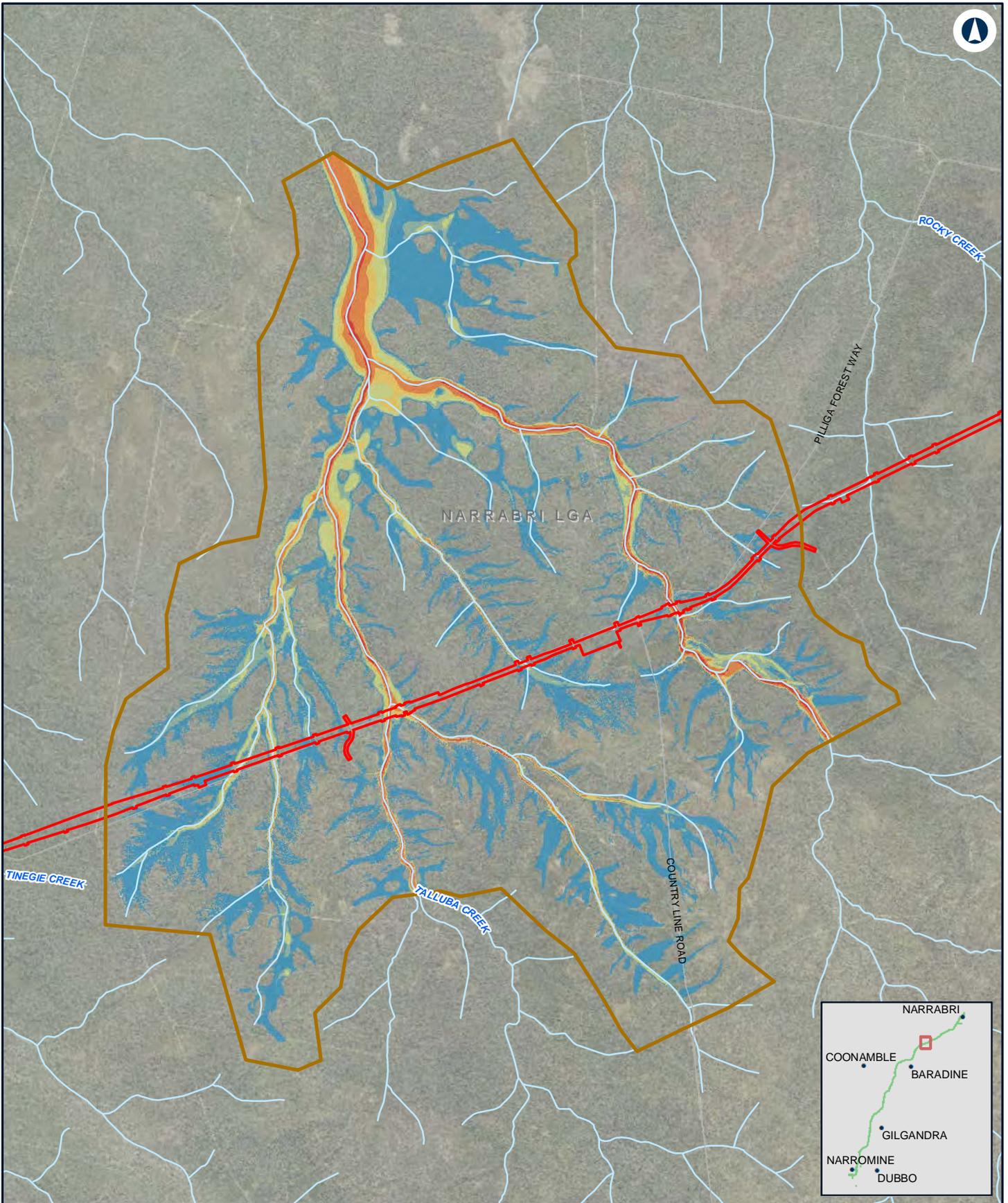
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

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NARROMINE TO NARRABRI

Existing flood hazard - 0.2% AEP - N2N5

Appendix D - Figure 4.7j



Coordinate System: GDA 1994 MGA Zone 55

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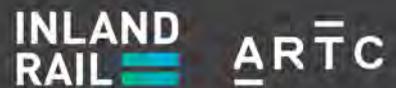
ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information contained within this GIS map.

Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:70,000

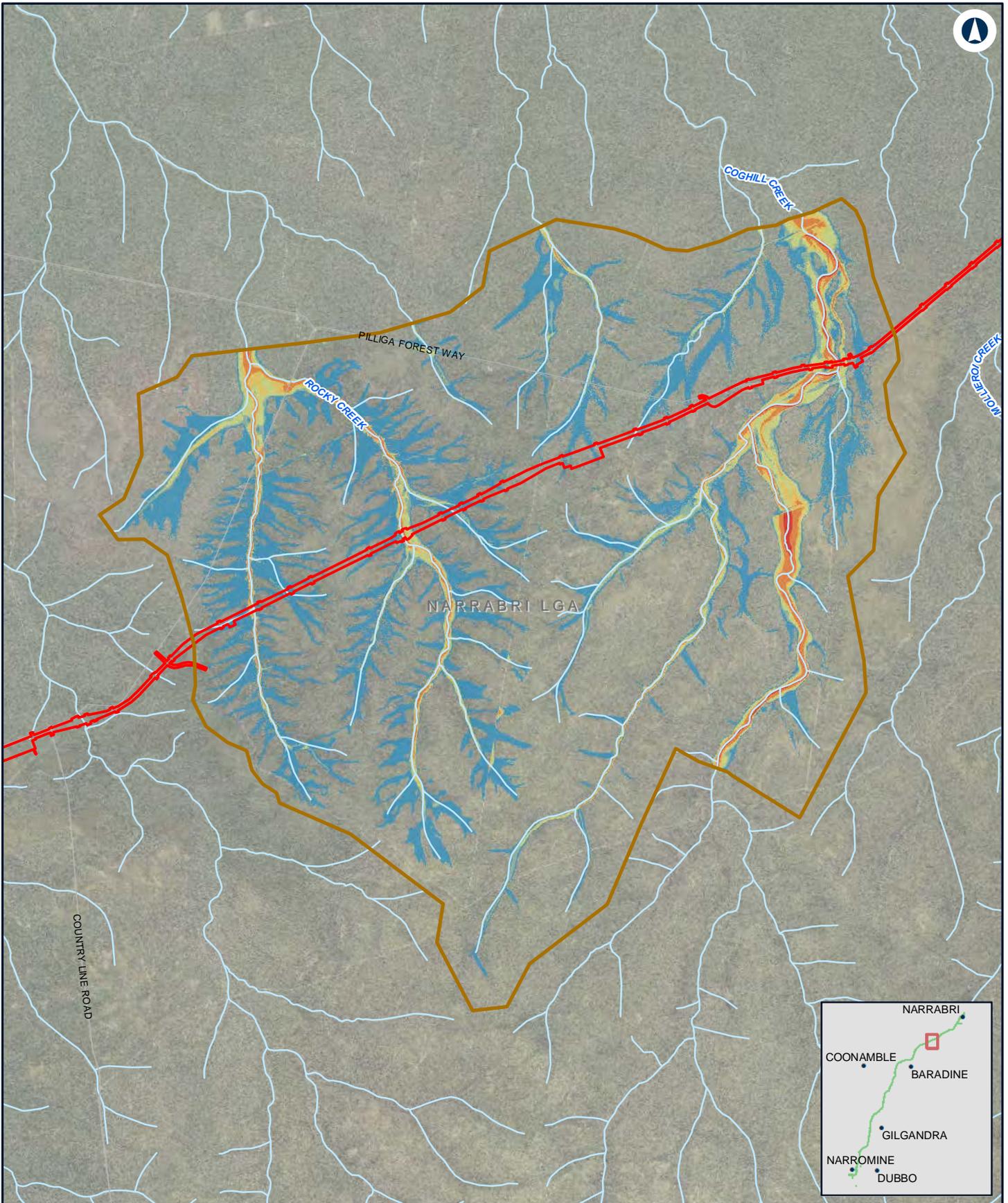
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

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NARROMINE TO NARRABRI

Existing flood hazard - 0.2% AEP - N2N4

Appendix D - Figure 4.7k



Coordinate System: GDA 1994 MGA Zone 55

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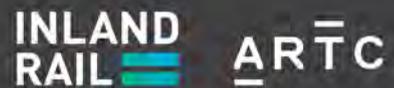
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:80,000

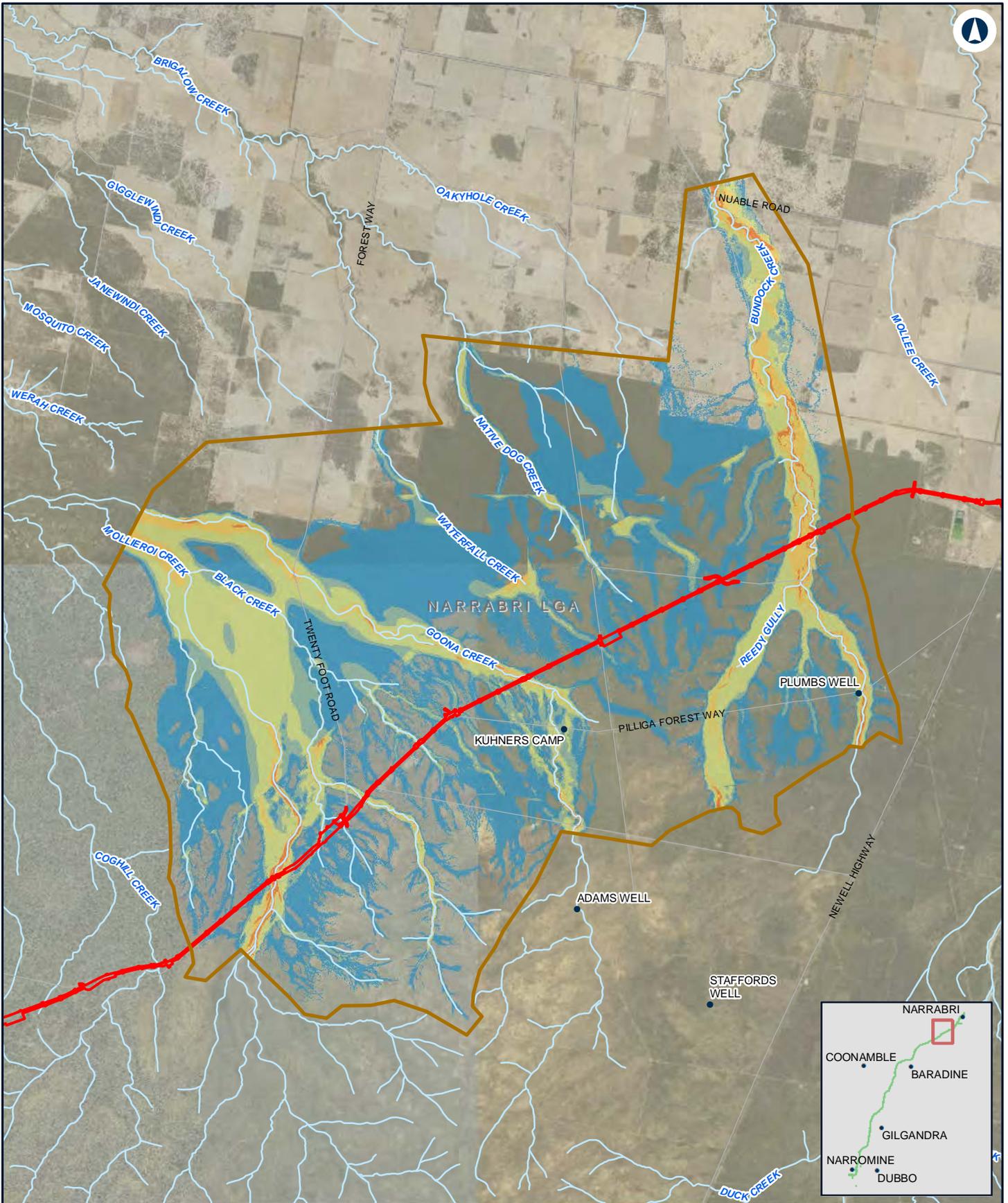
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
- Generally safe for vehicles, people and buildings
- Unsafe for small vehicles
- Unsafe for vehicles, children and the elderly
- Unsafe for vehicles and people
- Unsafe for all people and all vehicles. Buildings require special engineering design and construction
- Unconditionally dangerous



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NARROMINE TO NARRABRI

Existing flood hazard - 0.2% AEP - N2N23

Appendix D - Figure 4.71



Coordinate System: GDA 1994 MGA Zone 55

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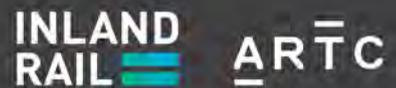
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:140,000

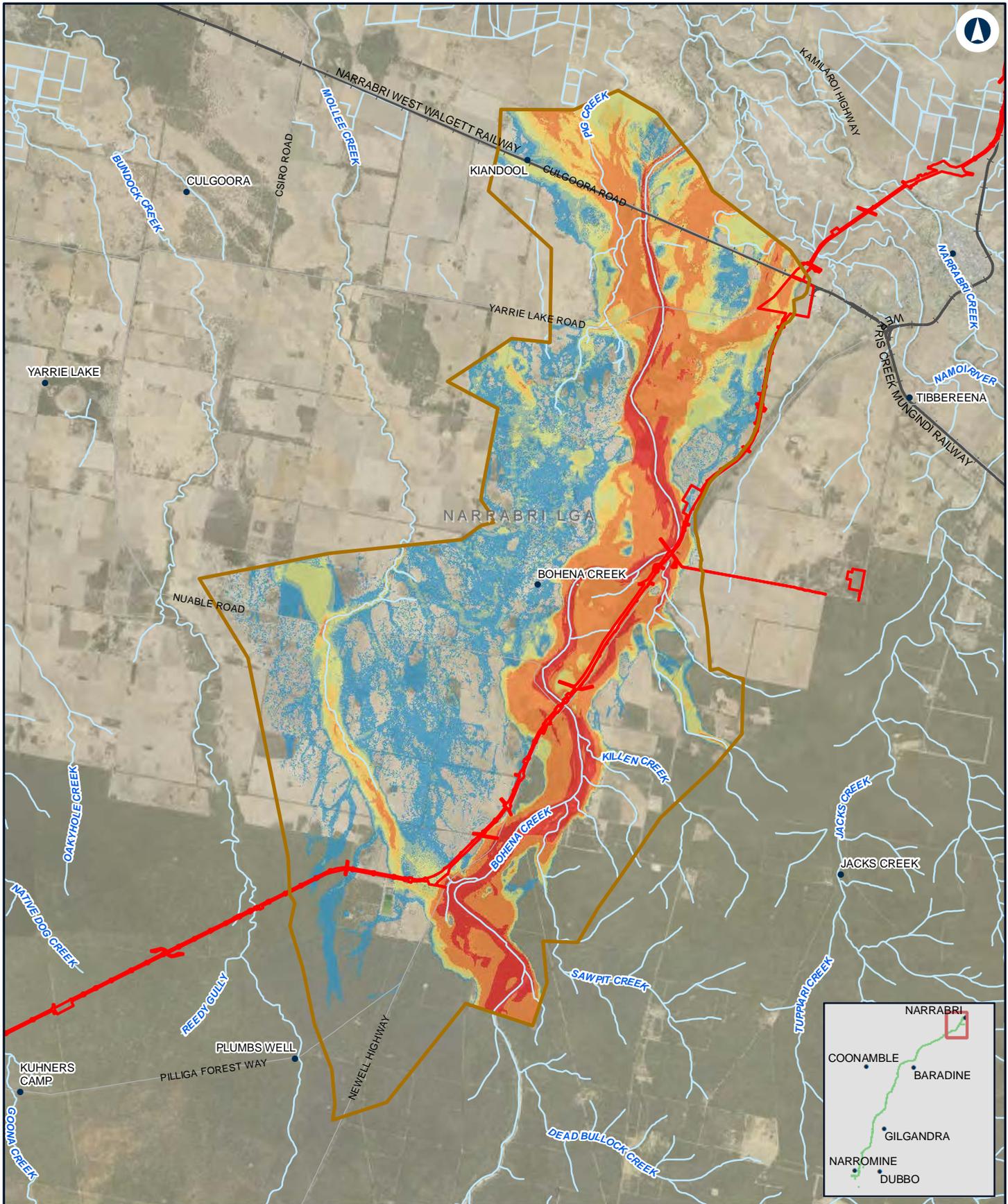
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

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NARROMINE TO NARRABRI

Existing flood hazard - 0.2% AEP - N2N1

Appendix D - Figure 4.7m



LEGEND

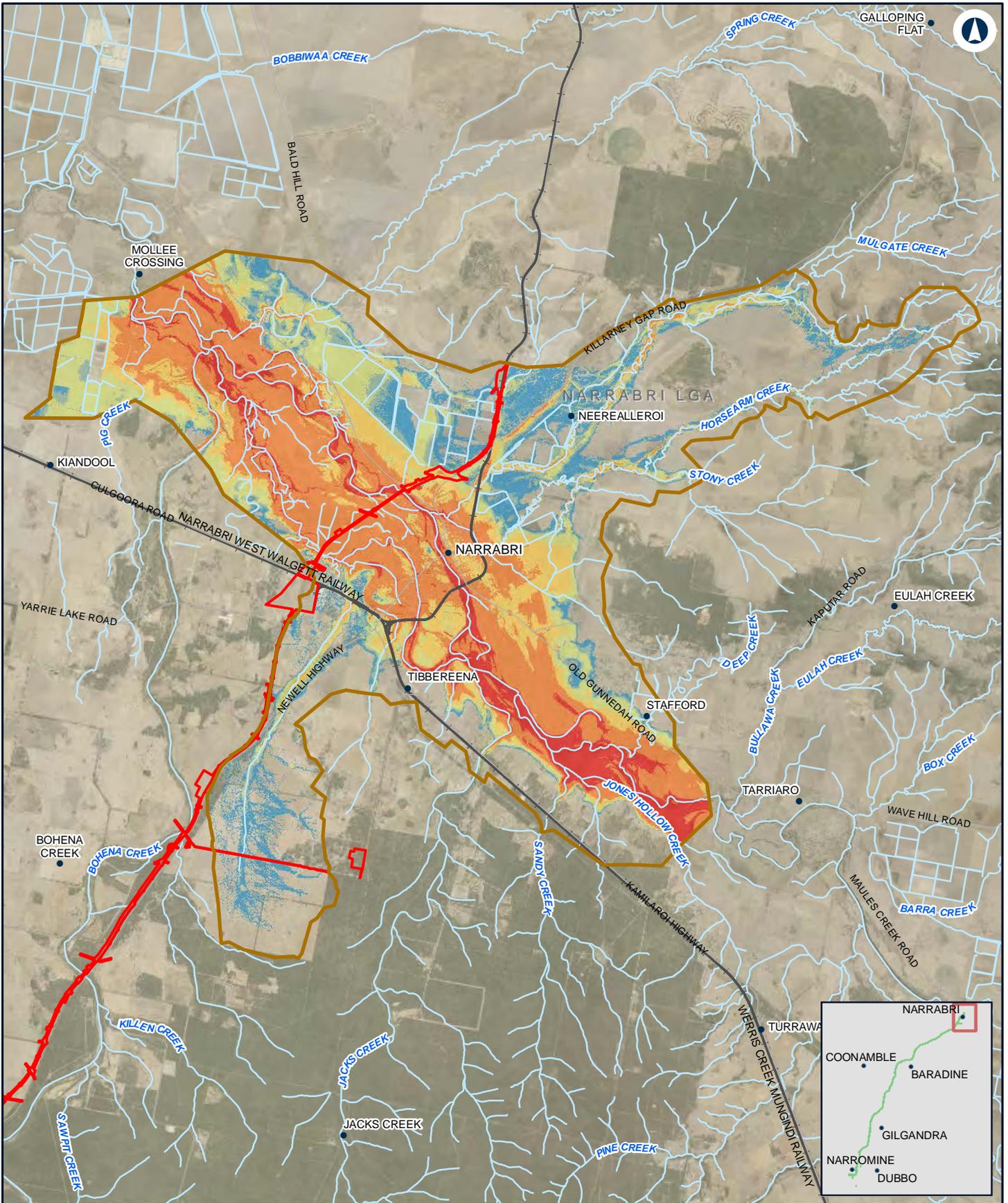
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:150,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD



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NARROMINE TO NARRABRI

Existing flood hazard - 0.2% AEP - Narrabri

Appendix D - Figure 4.7n



Coordinate System: GDA 1994 MGA Zone 55

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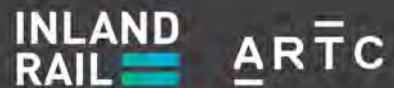
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:160,000

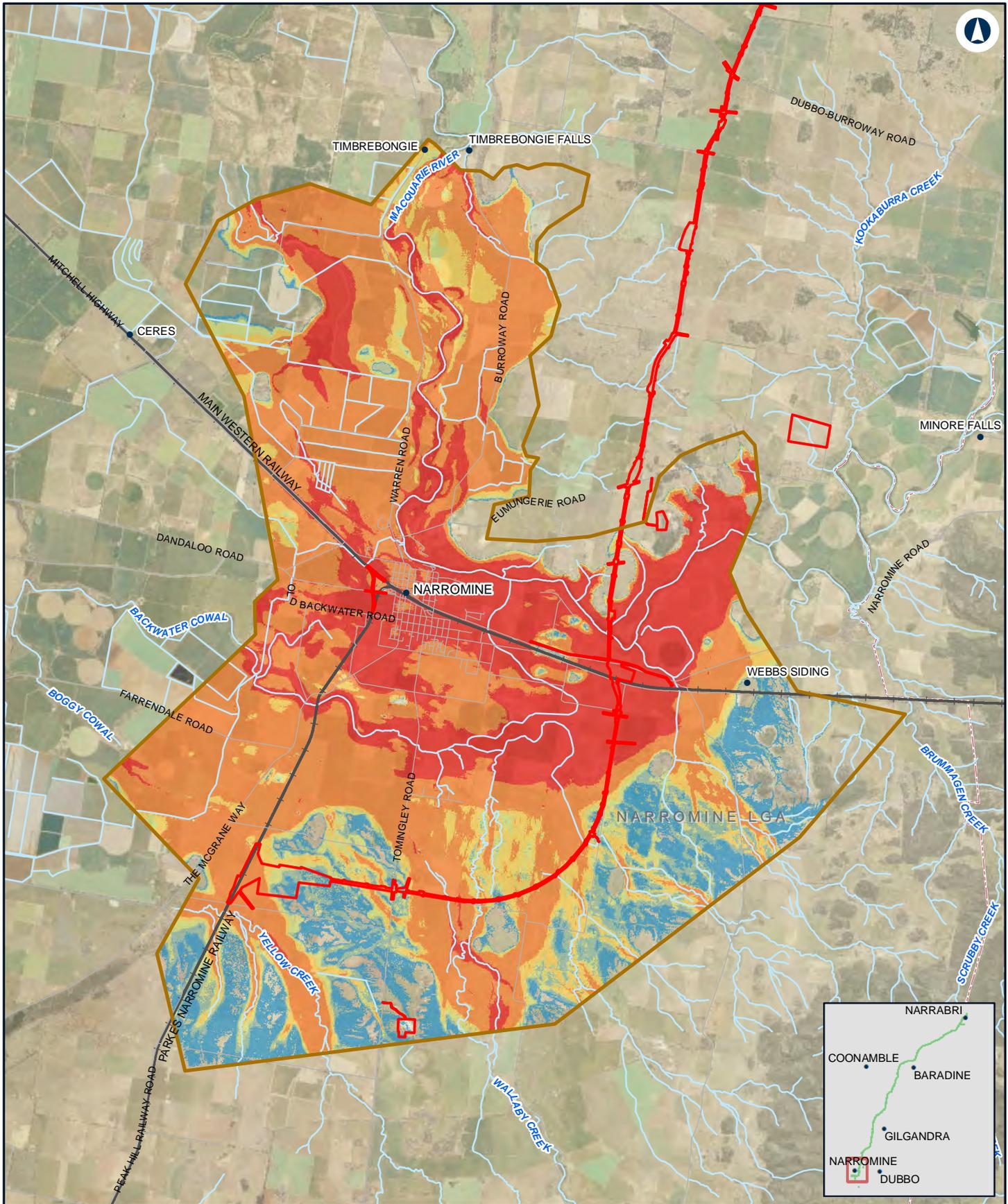
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

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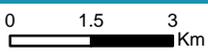
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NARROMINE TO NARRABRI

Existing flood hazard - PMF - NFM

Appendix D - Figure 4.8a



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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:140,000

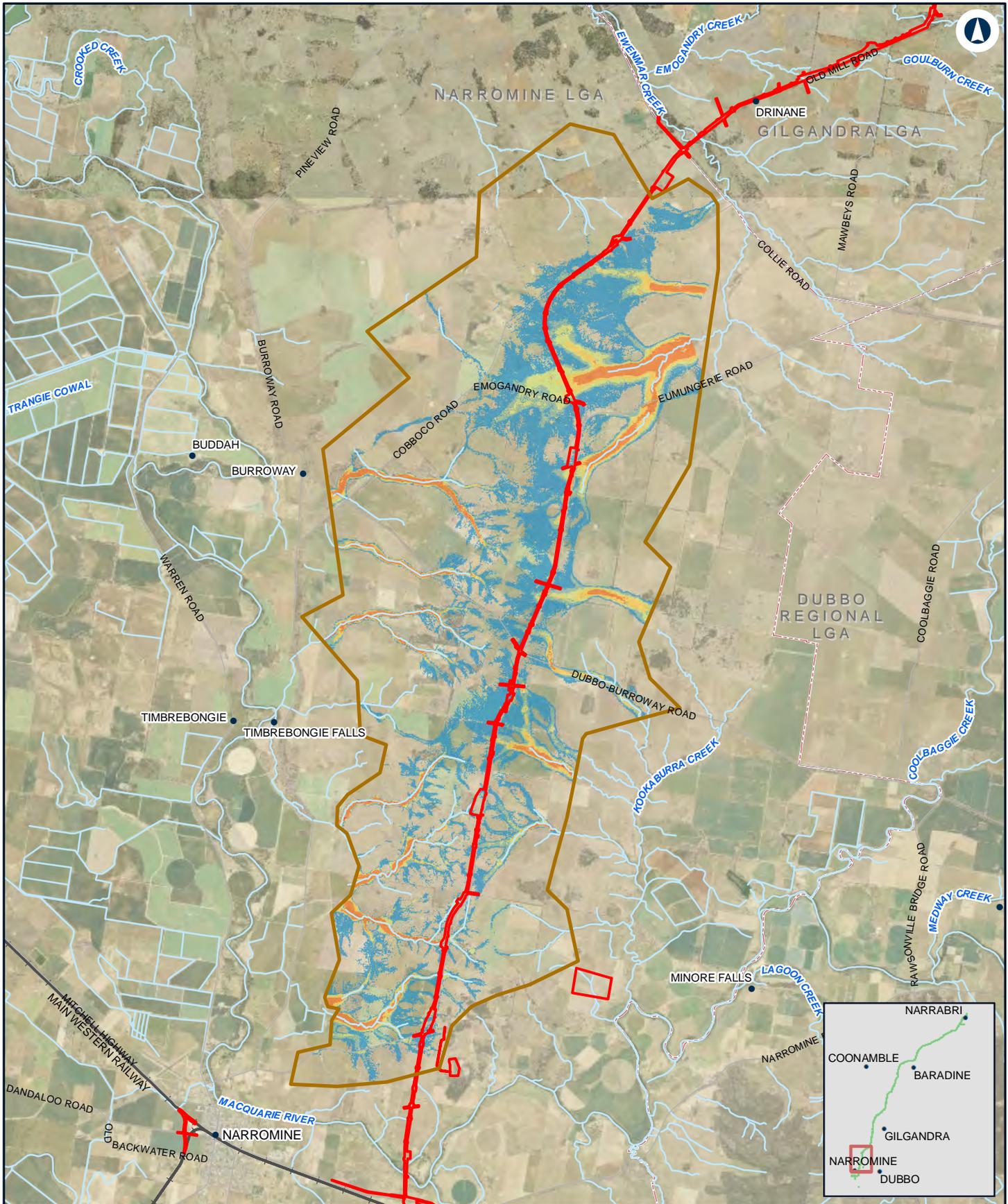
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

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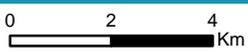
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NARROMINE TO NARRABRI

Existing flood hazard - PMF - N2N14

Appendix D - Figure 4.8b



LEGEND

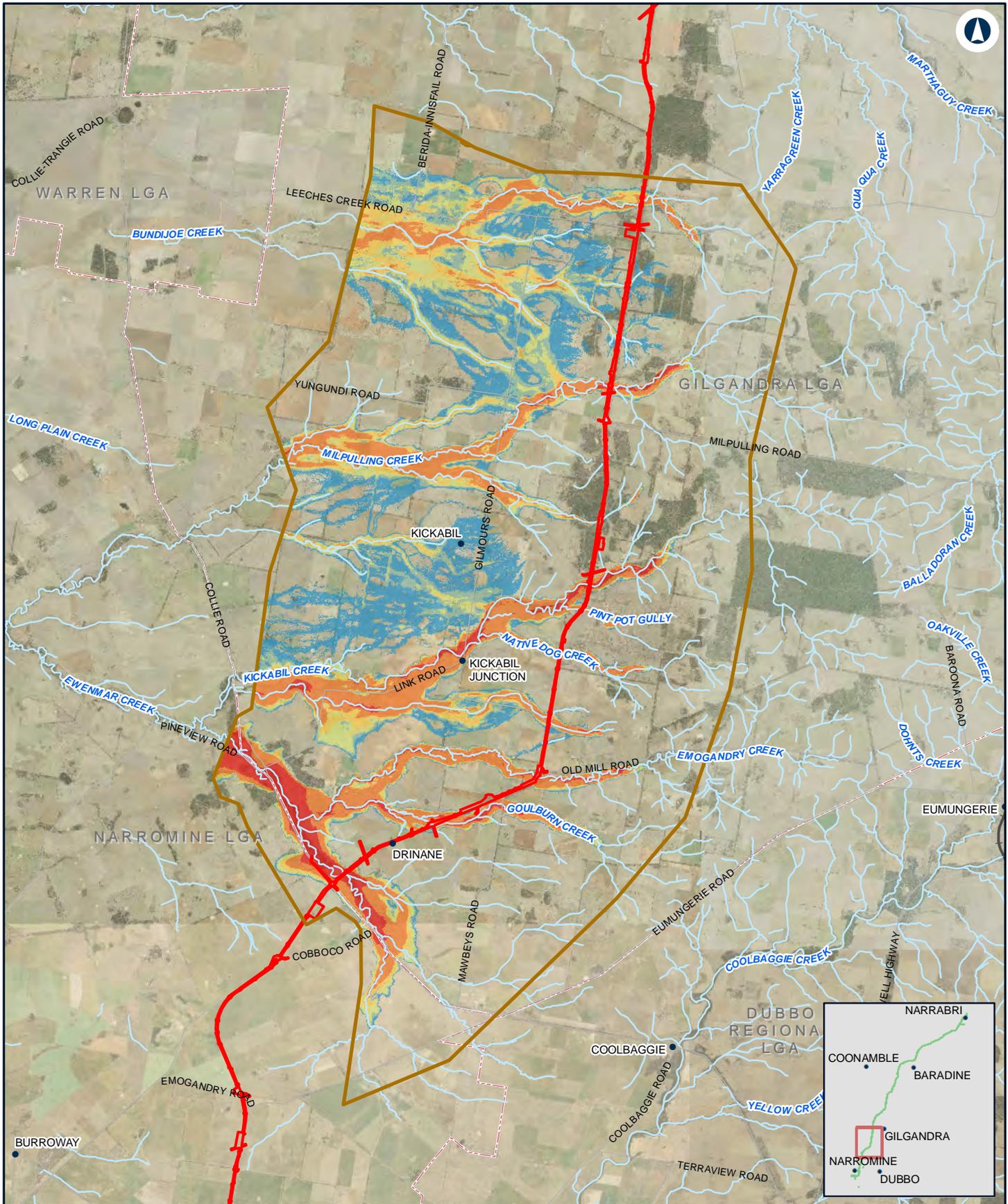
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:150,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD



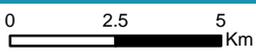
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NARROMINE TO NARRABRI

Existing flood hazard - PMF - N2N13

Appendix D - Figure 4.8c



LEGEND

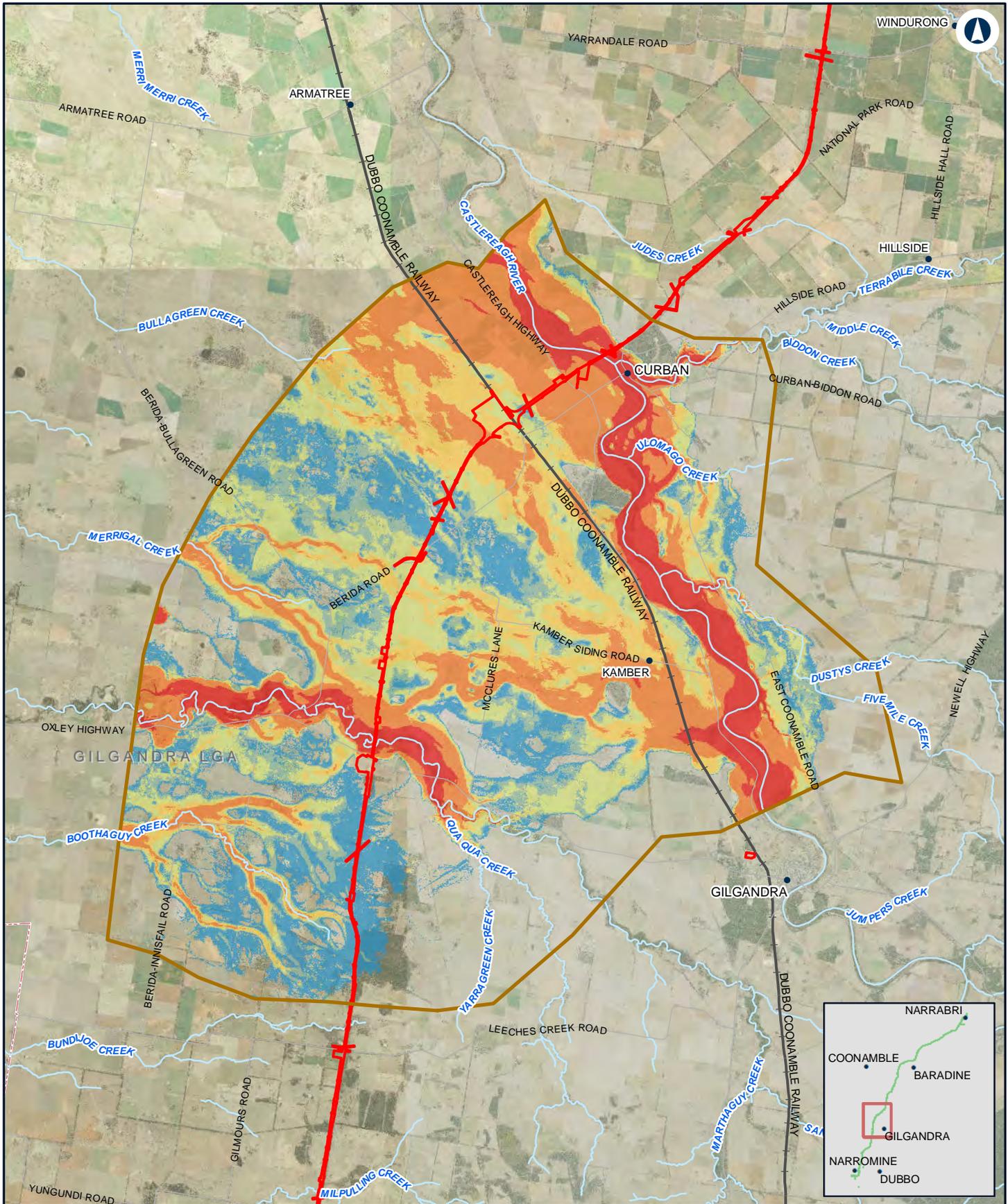
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Coordinate System: GDA 1994 MGA Zone 55
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:180,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD



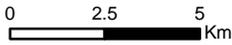
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NARROMINE TO NARRABRI

Existing flood hazard - PMF - N2N11N12

Appendix D - Figure 4.8d



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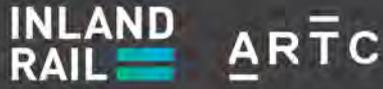
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:200,000

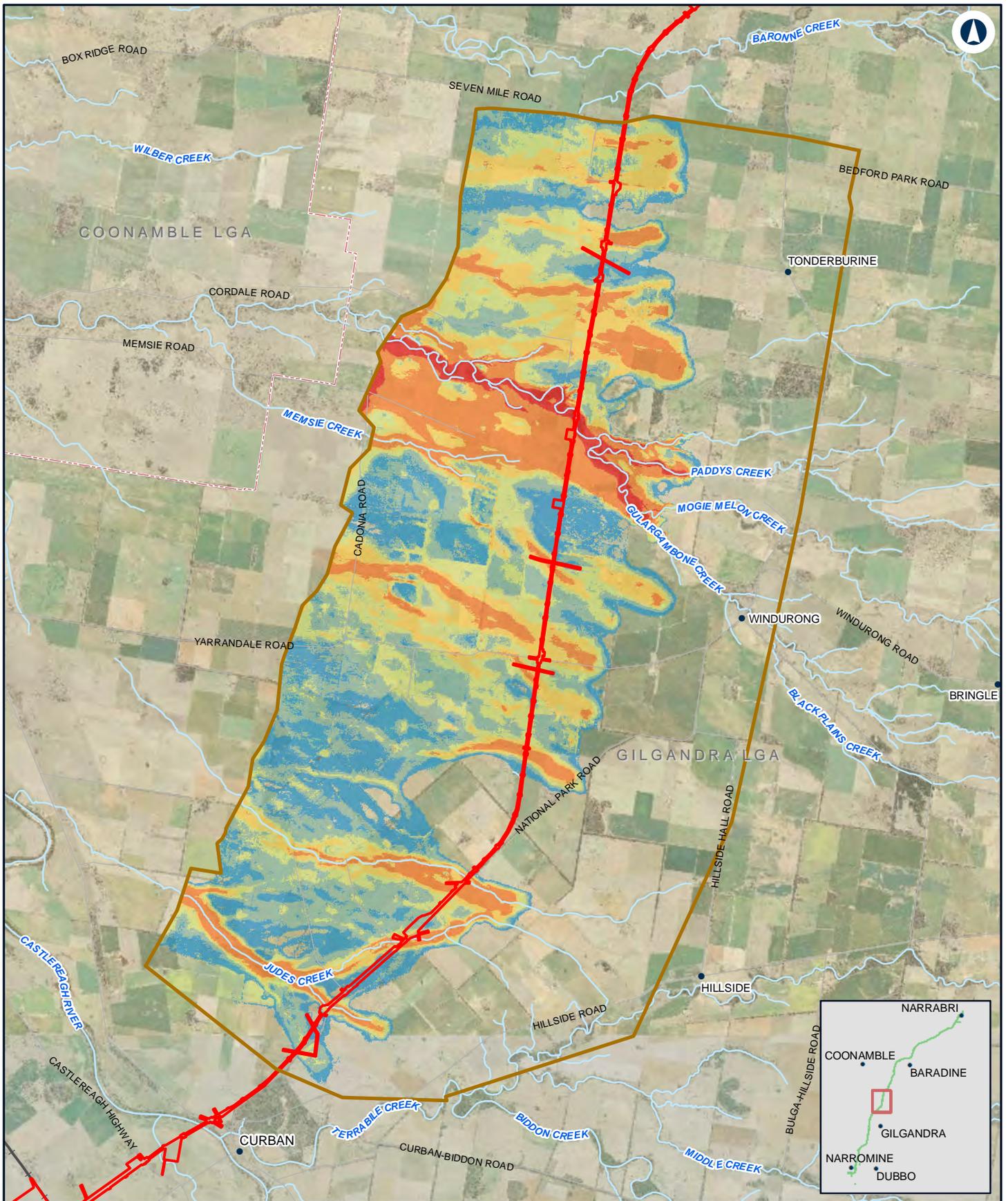
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

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NARROMINE TO NARRABRI

Existing flood hazard - PMF - N2N10

Appendix D - Figure 4.8e



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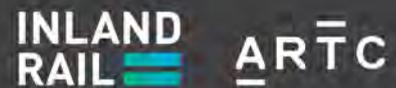
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:130,000

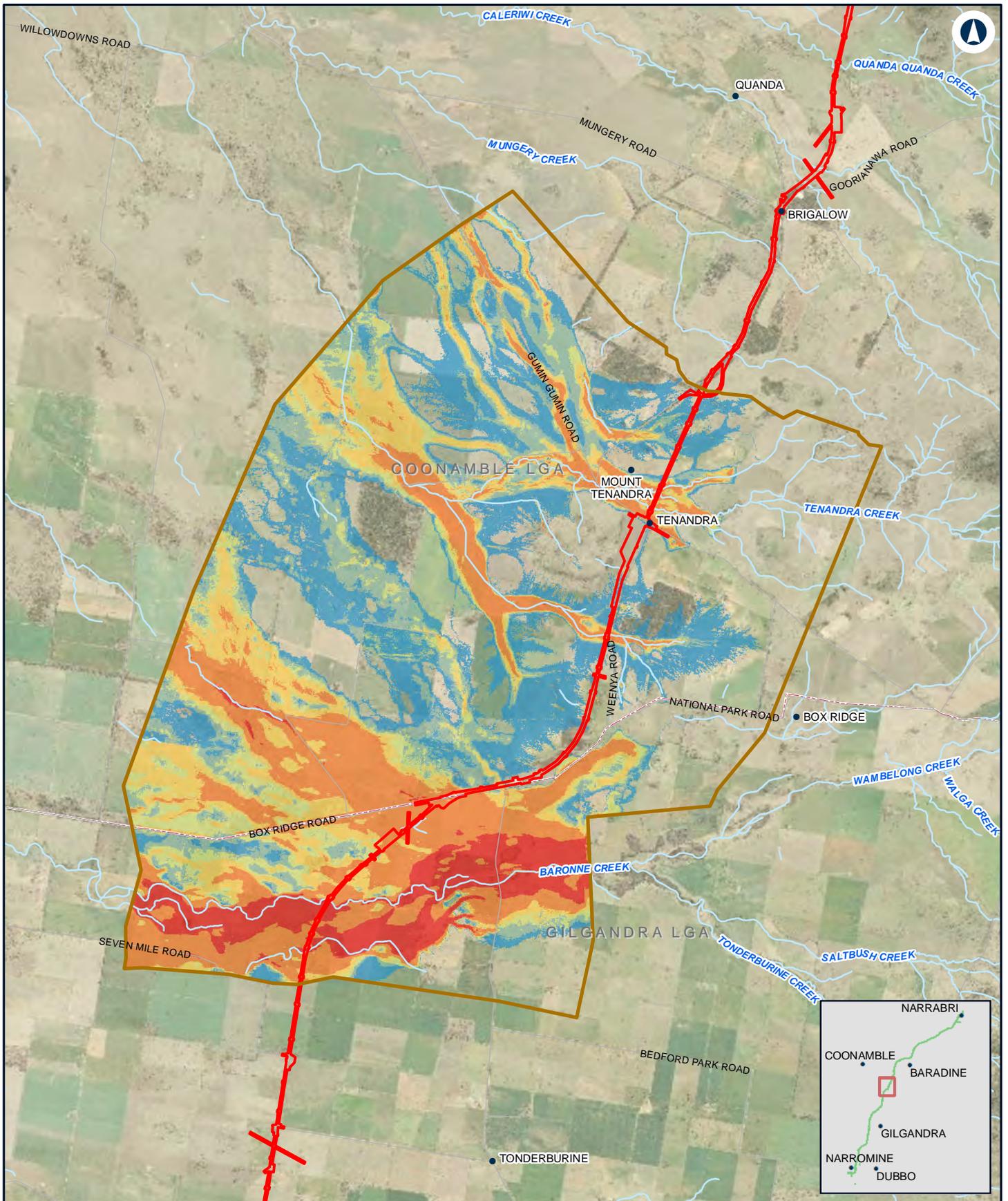
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

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NARROMINE TO NARRABRI

Existing flood hazard - PMF - N2N9

Appendix D - Figure 4.8f



Coordinate System: GDA 1994 MGA Zone 55

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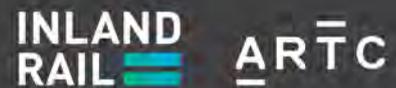
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:110,000

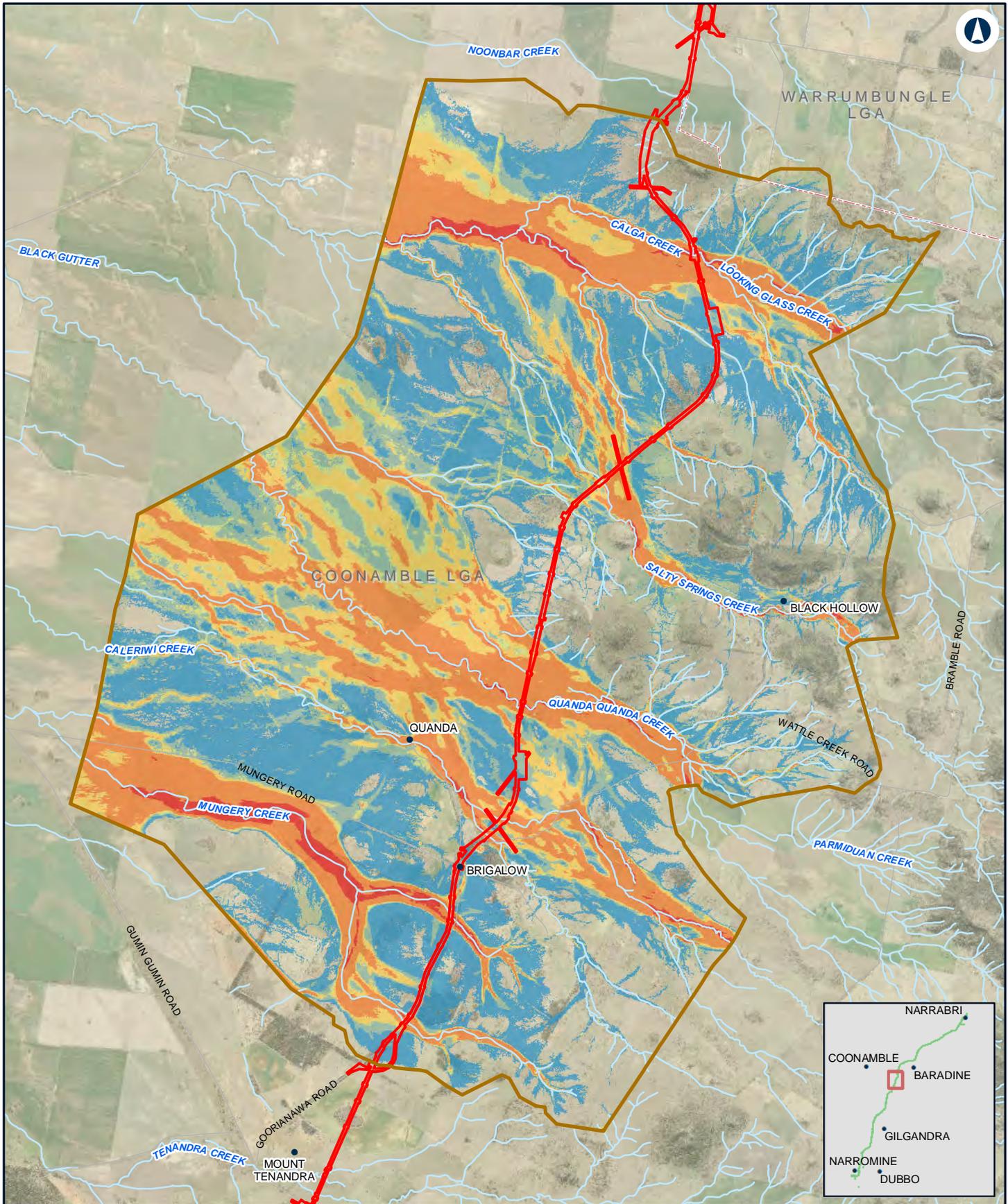
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

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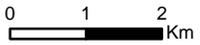
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NARROMINE TO NARRABRI

Existing flood hazard - PMF - N2N8

Appendix D - Figure 4.8g



Coordinate System: GDA 1994 MGA Zone 55

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 Author: JacobsGHD Scale: 1:100,000

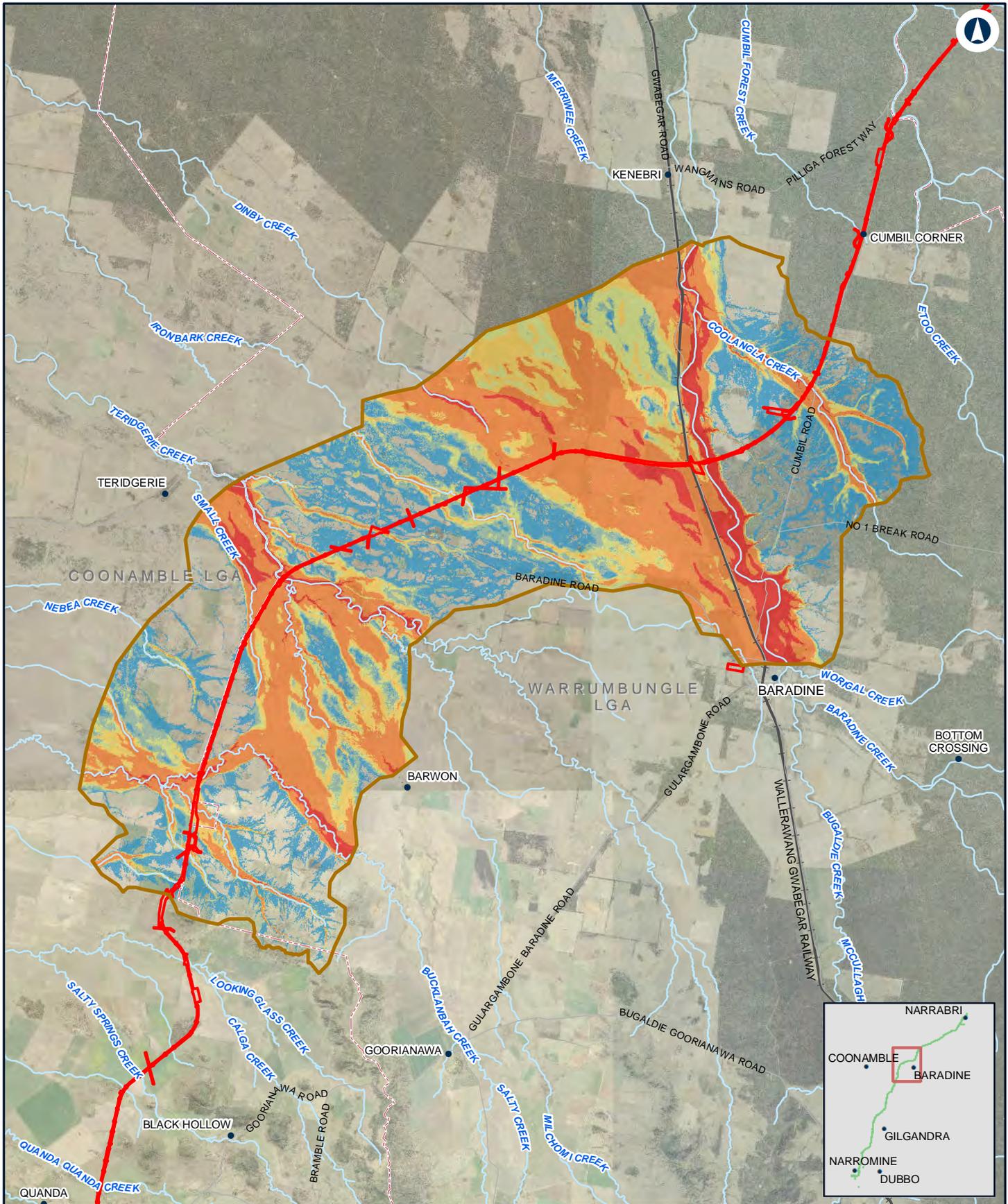
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

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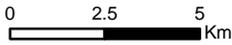
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NARROMINE TO NARRABRI

Existing flood hazard - PMF - N2N7

Appendix D - Figure 4.8h



Coordinate System: GDA 1994 MGA Zone 55

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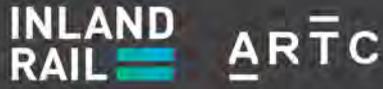
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:200,000

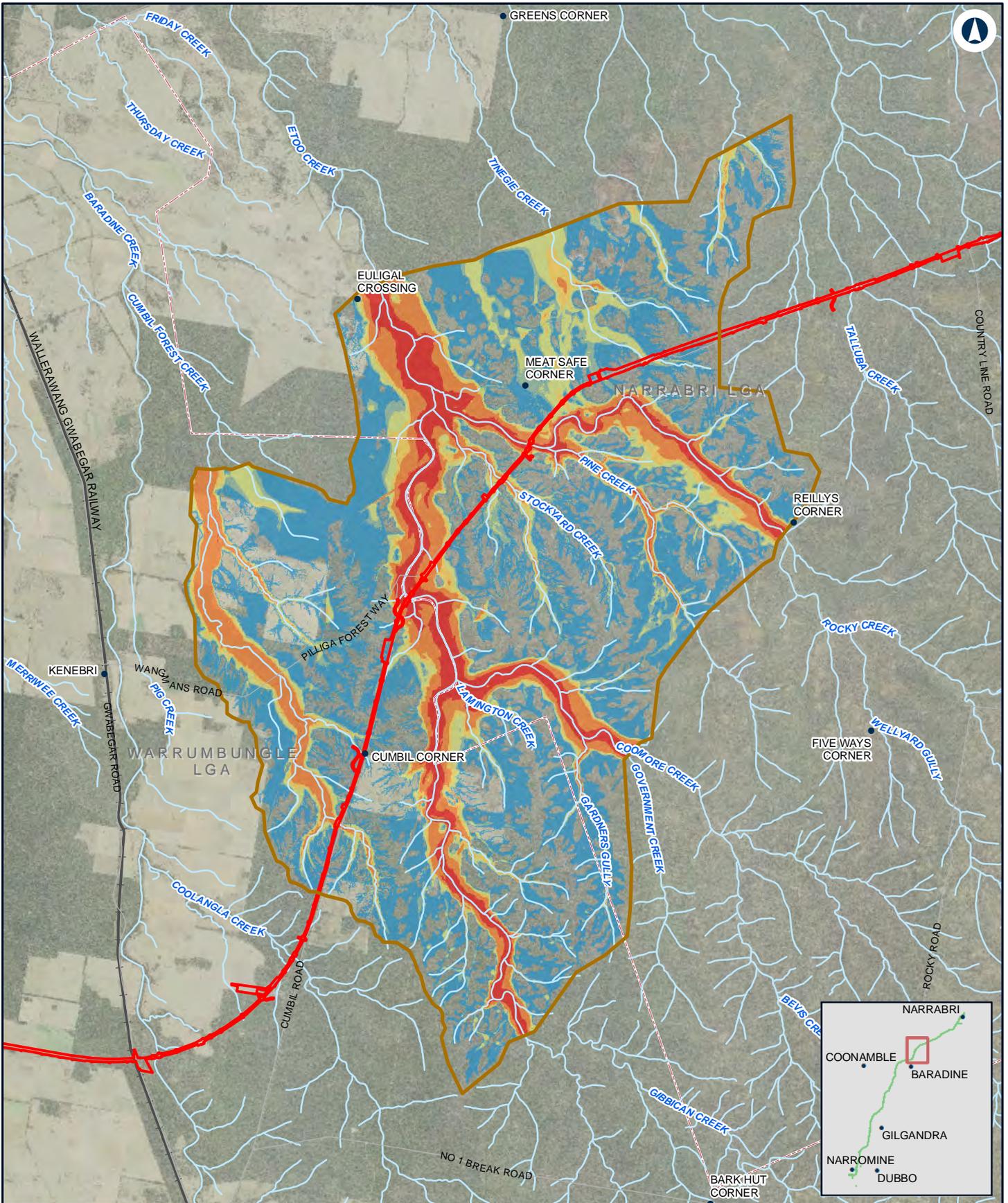
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

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NARROMINE TO NARRABRI

Existing flood hazard - PMF - N2N6

Appendix D - Figure 4.8i



Coordinate System: GDA 1994 MGA Zone 55

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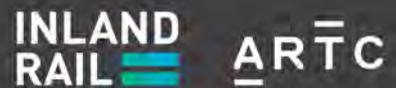
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:150,000

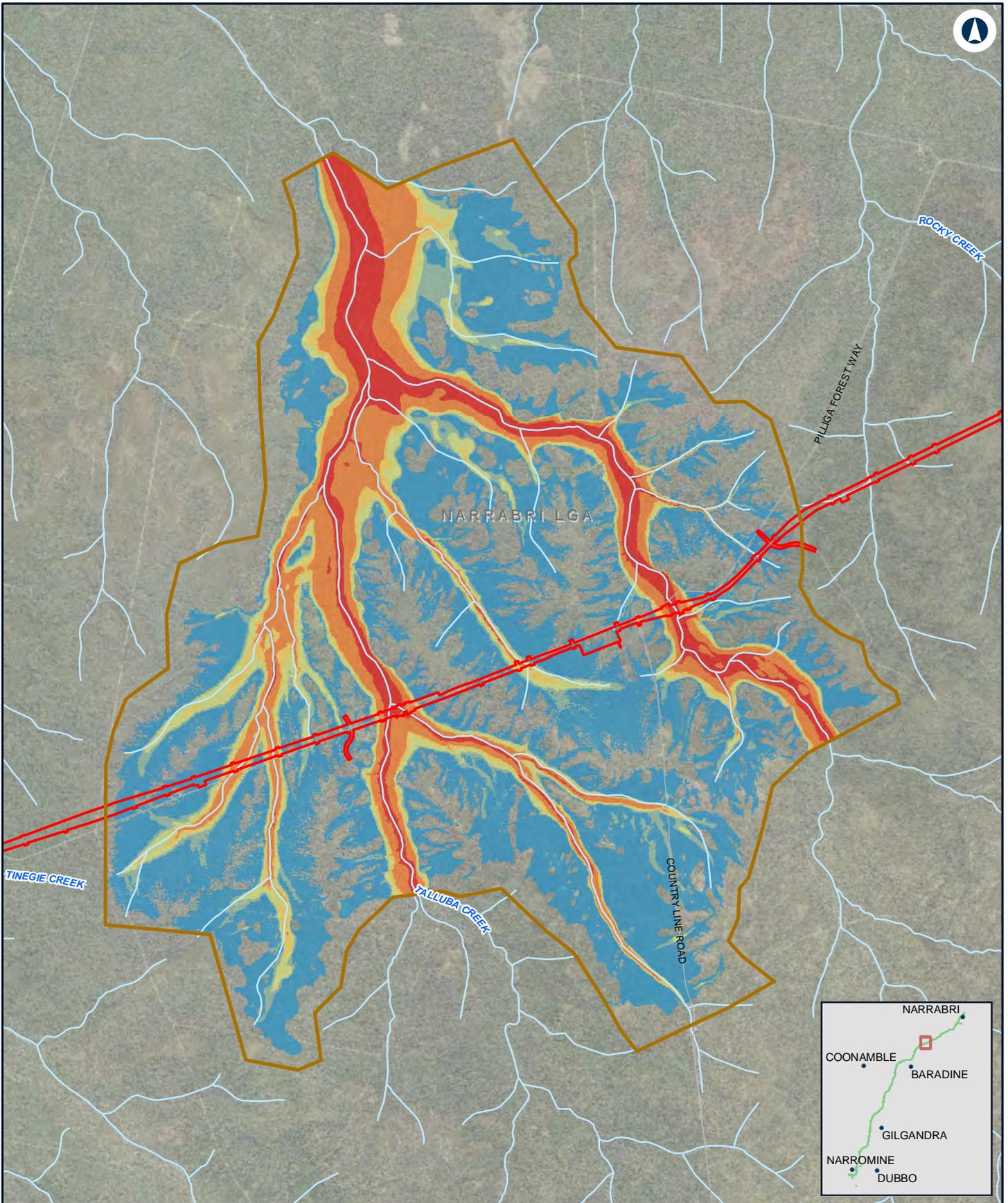
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

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NARROMINE TO NARRABRI

Existing flood hazard - PMF - N2N5

Appendix D - Figure 4.8j



Coordinate System: GDA 1994 MGA Zone 55

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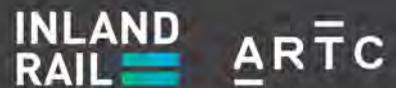
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:70,000

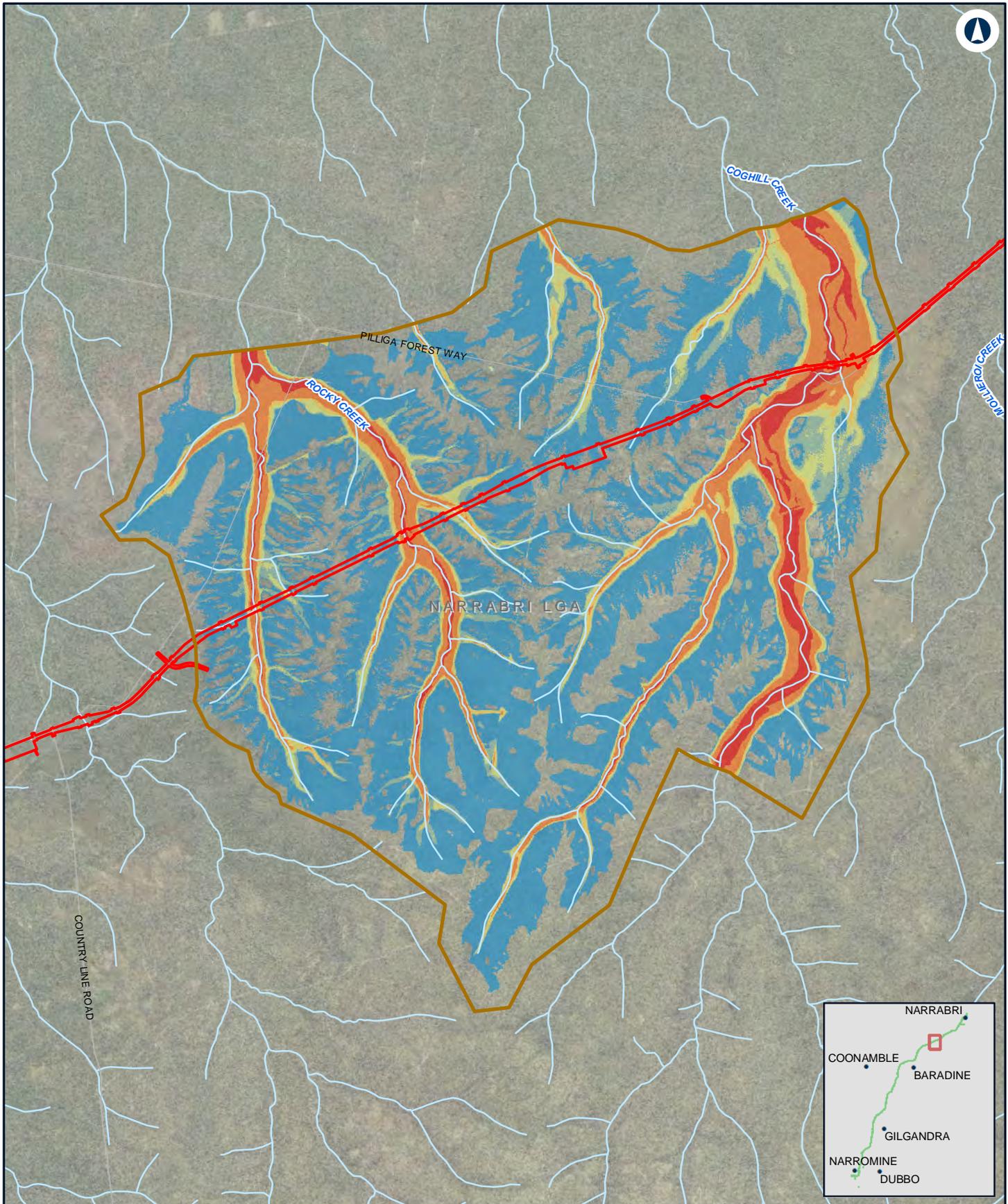
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

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NARROMINE TO NARRABRI

Existing flood hazard - PMF - N2N4

Appendix D - Figure 4.8k



Coordinate System: GDA 1994 MGA Zone 55

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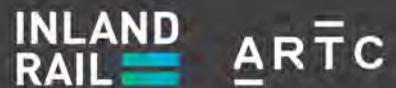
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:80,000

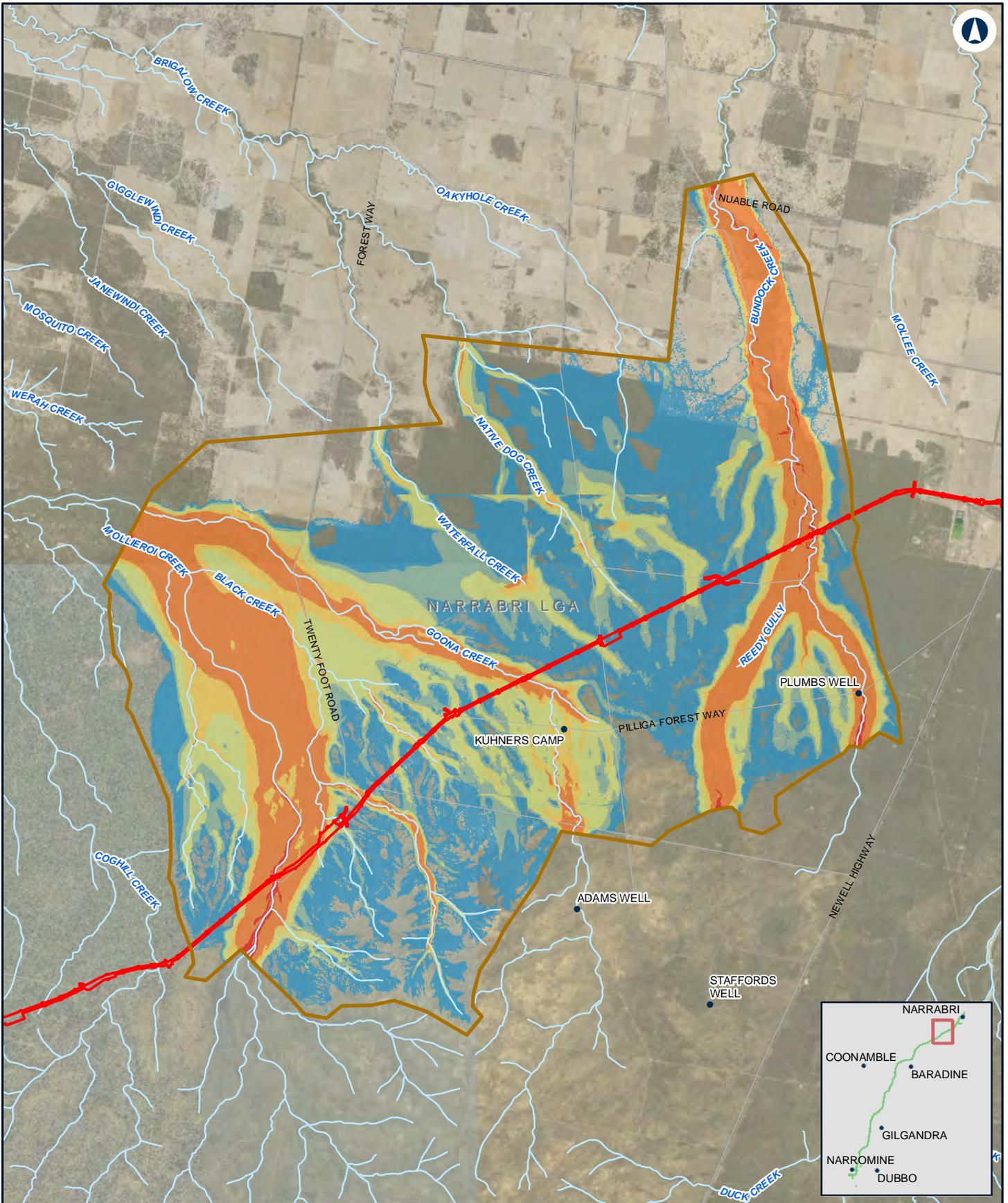
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

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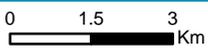
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NARROMINE TO NARRABRI

Existing flood hazard - PMF - N2N23

Appendix D - Figure 4.8I



Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:140,000

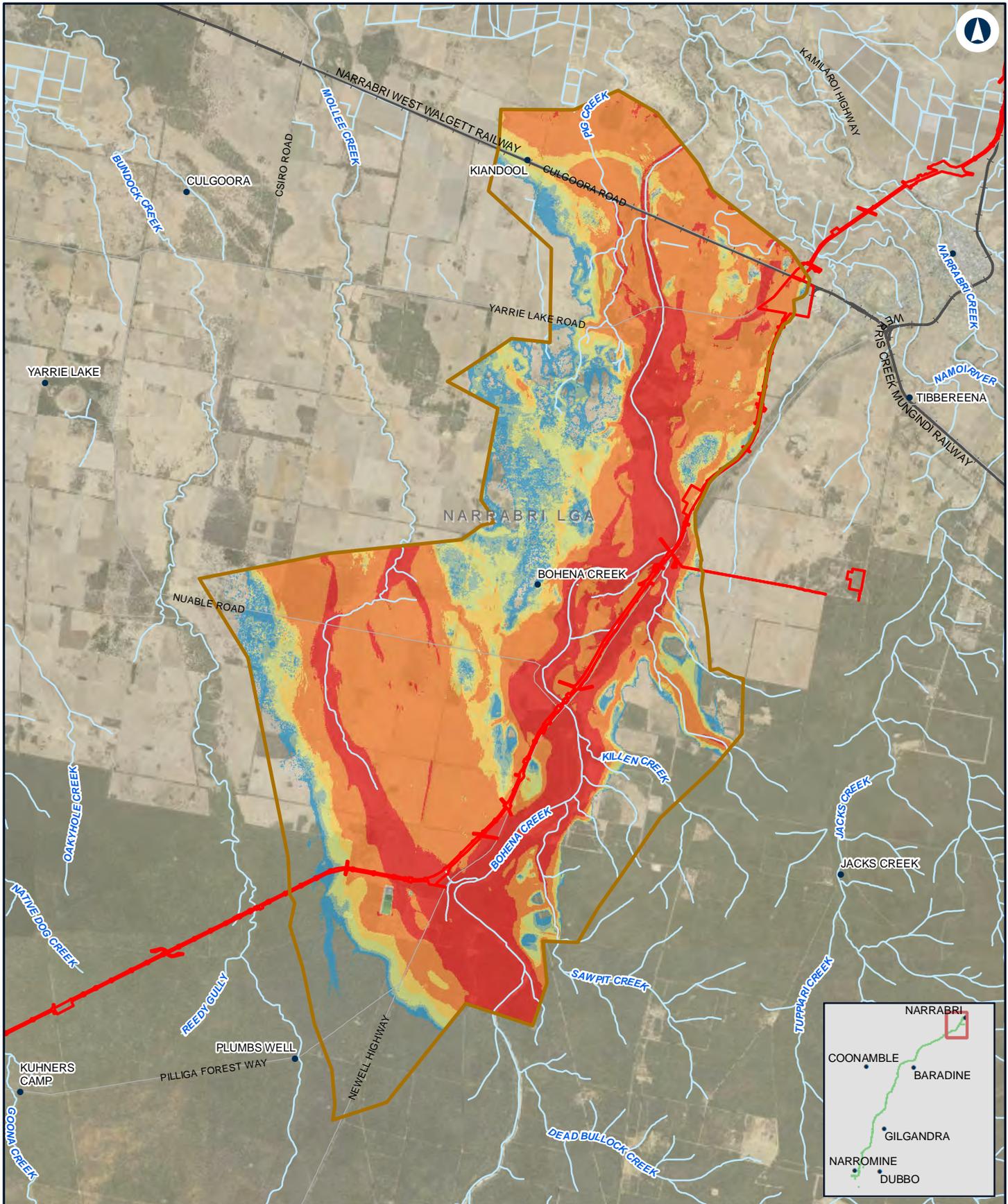
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

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NARROMINE TO NARRABRI

Existing flood hazard - PMF - N2N1

Appendix D - Figure 4.8m

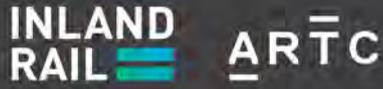


Coordinate System: GDA 1994 MGA Zone 55
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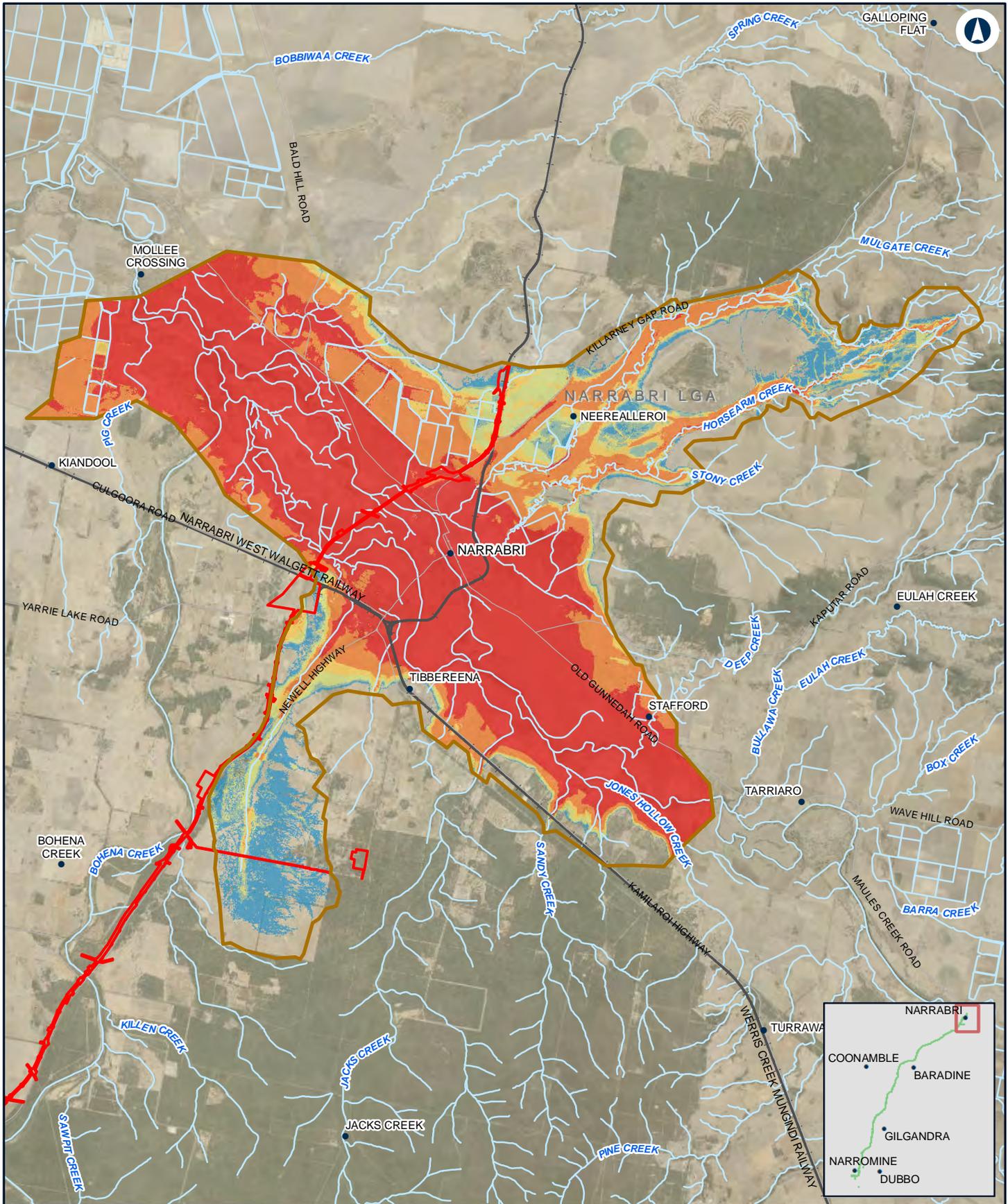
Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:150,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

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NARROMINE TO NARRABRI

Existing flood hazard - PMF - Narrabri

Appendix D - Figure 4.8n

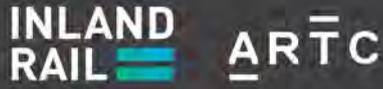


Coordinate System: GDA 1994 MGA Zone 55
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:160,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
- Generally safe for vehicles, people and buildings
- Unsafe for small vehicles
- Unsafe for vehicles, children and the elderly
- Unsafe for all people and all vehicles. Buildings require special engineering design and construction
- Unconditionally dangerous



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