

TECHNICAL REPORT

INLAND
RAIL 

3

Flooding and hydrology assessment

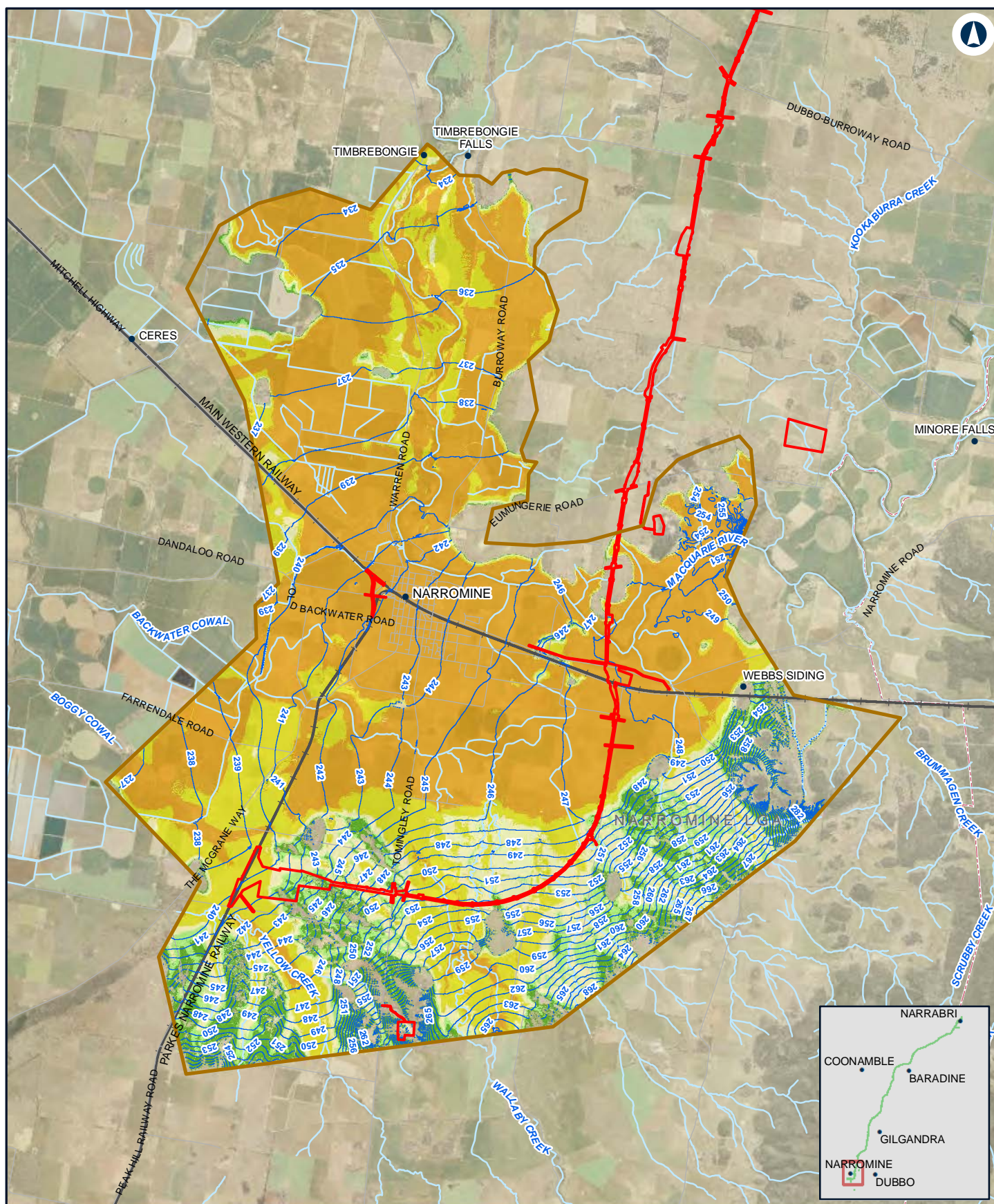
PART 4 OF 12

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

0 1.5 3 Km

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

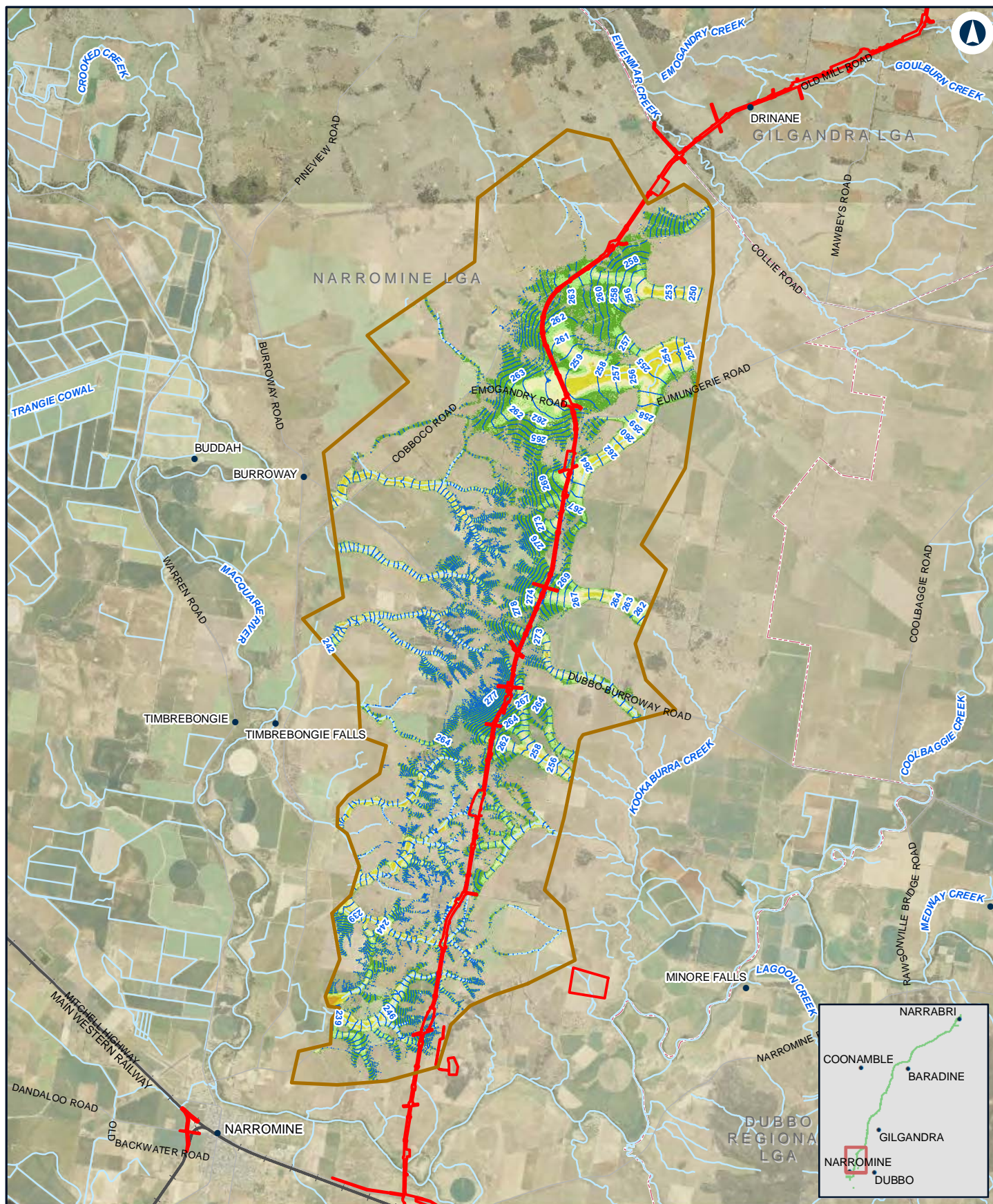
- The proposal site
- Model boundary
- Flood level (mAHD)
- 1.0m - 2.0m
- > 2.0m

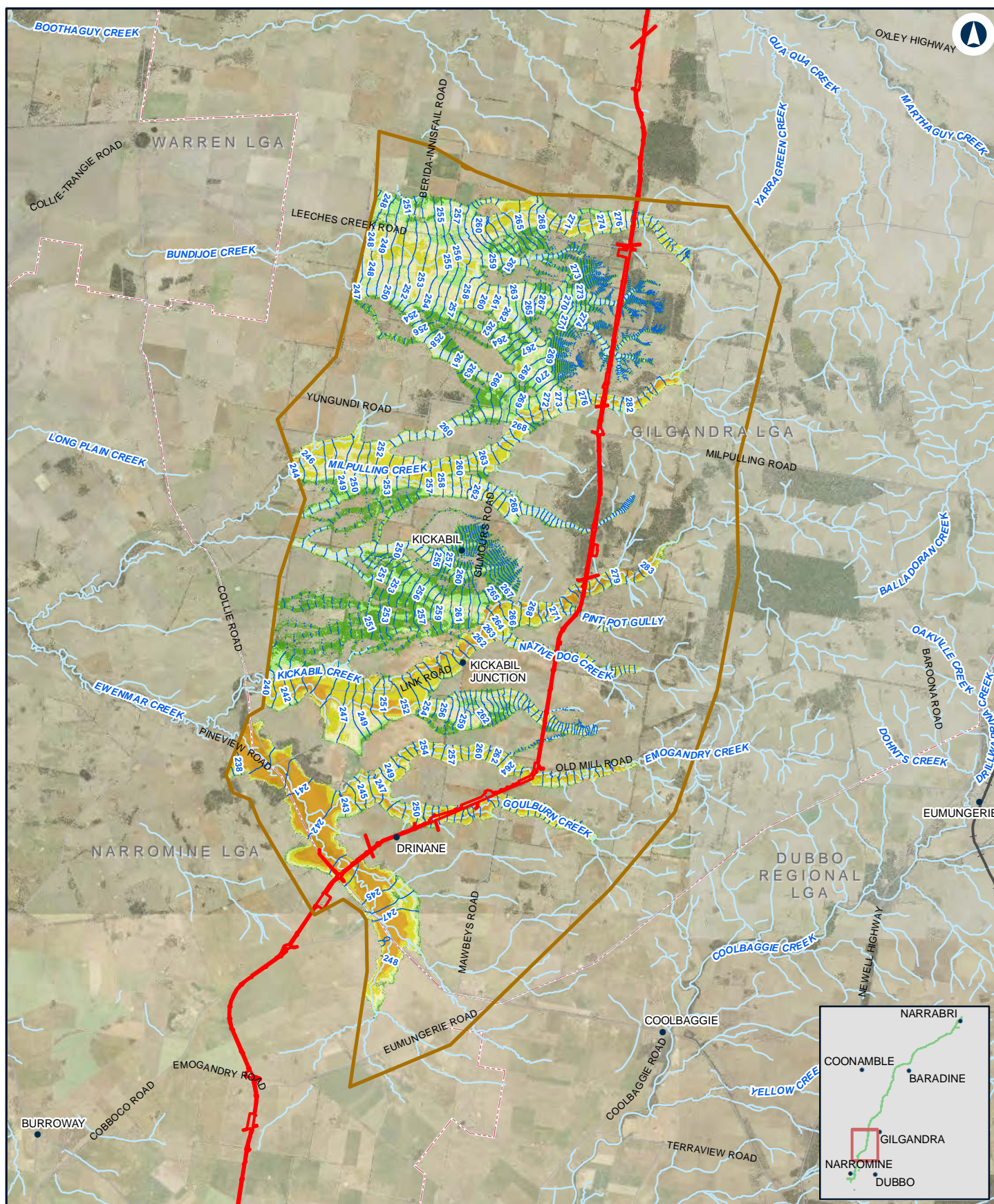
Flood depth

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

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - PMF -N2N13

Appendix D - Figure 1.8c

0 2.5 5 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020
Author: JacobsGHD

Paper: A4
Scale: 1:187,710

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

LEGEND

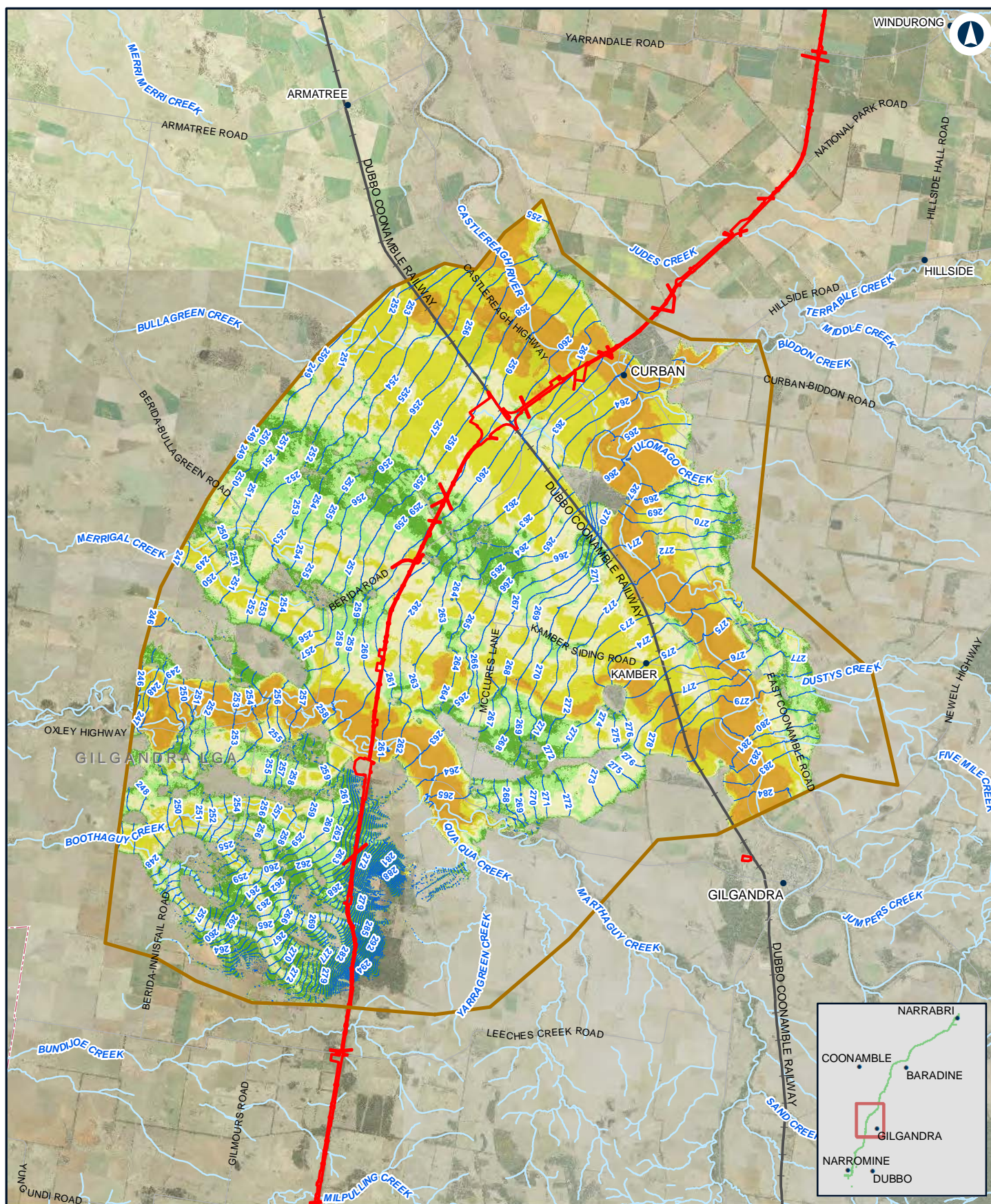
- The proposal site
- Model boundary
- Flood level (mAHD)
- 1.0m - 2.0m
- > 2.0m

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 -N2N11N12

Appendix D - Figure 1.8d

0 2.5 5 Km

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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

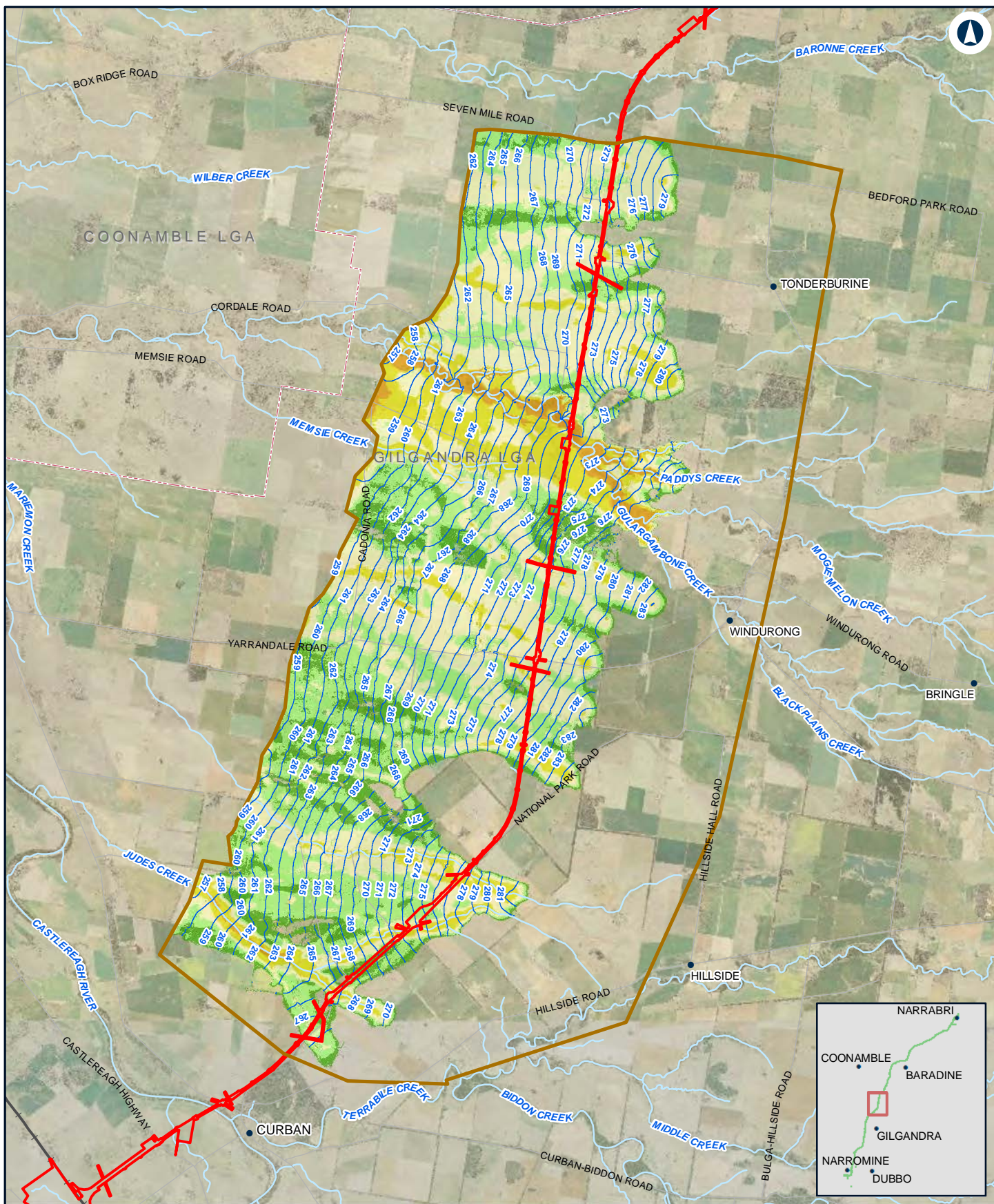
- The proposal site
- Model boundary
- Flood level (mAHD)
- 1.0m - 2.0m
- > 2.0m

Flood depth

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

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

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

Appendix D - Figure 1.8e

0 1.5 3 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020
Author: JacobsGHD

Paper: A4
Scale: 1:135,210

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

LEGEND

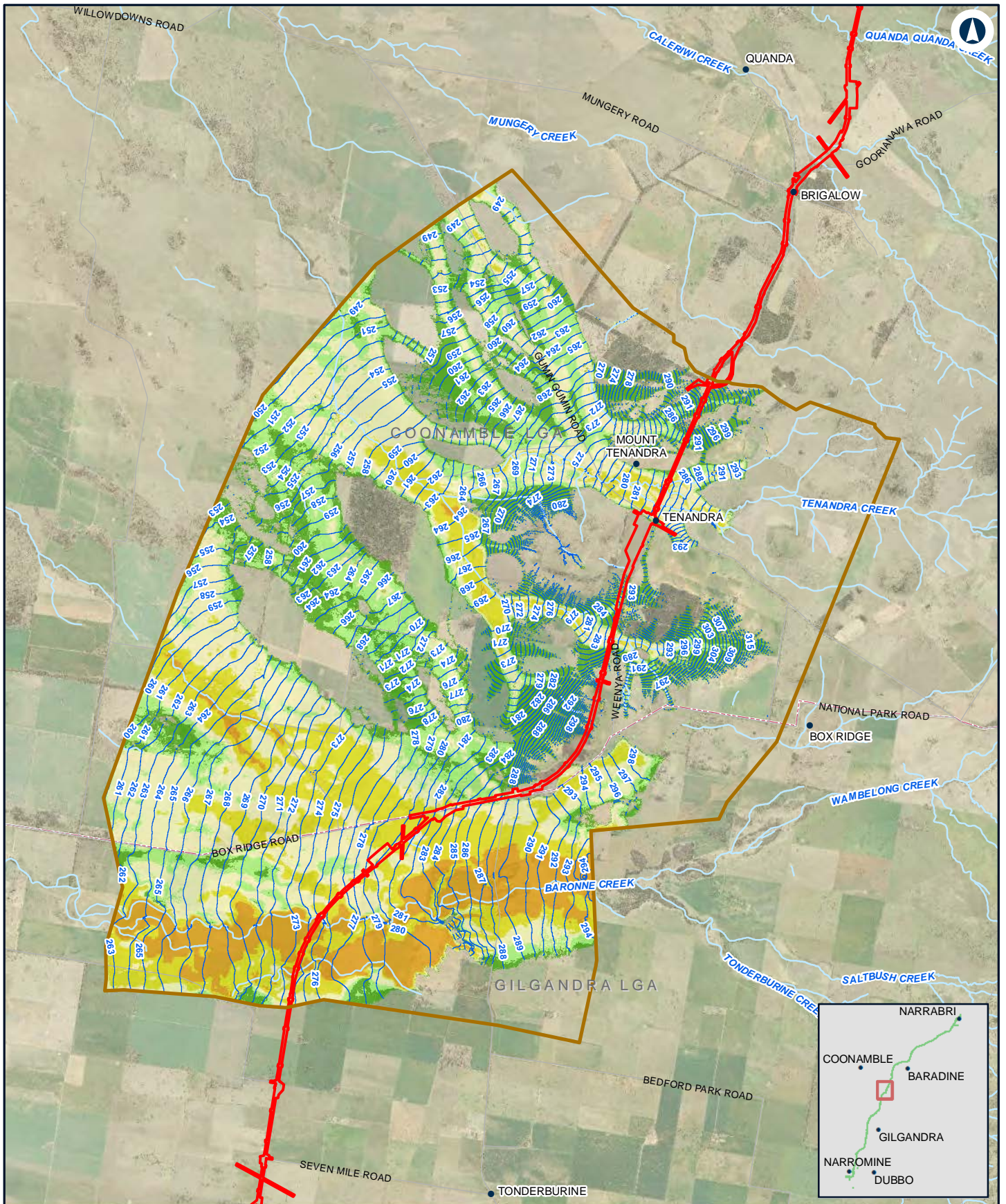
- The proposal site
- Model boundary
- Flood level (mAHD)
- 1.0m - 2.0m
- > 2.0m

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 -N2N9

Appendix D - Figure 1.8f

0 1 2 Km

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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

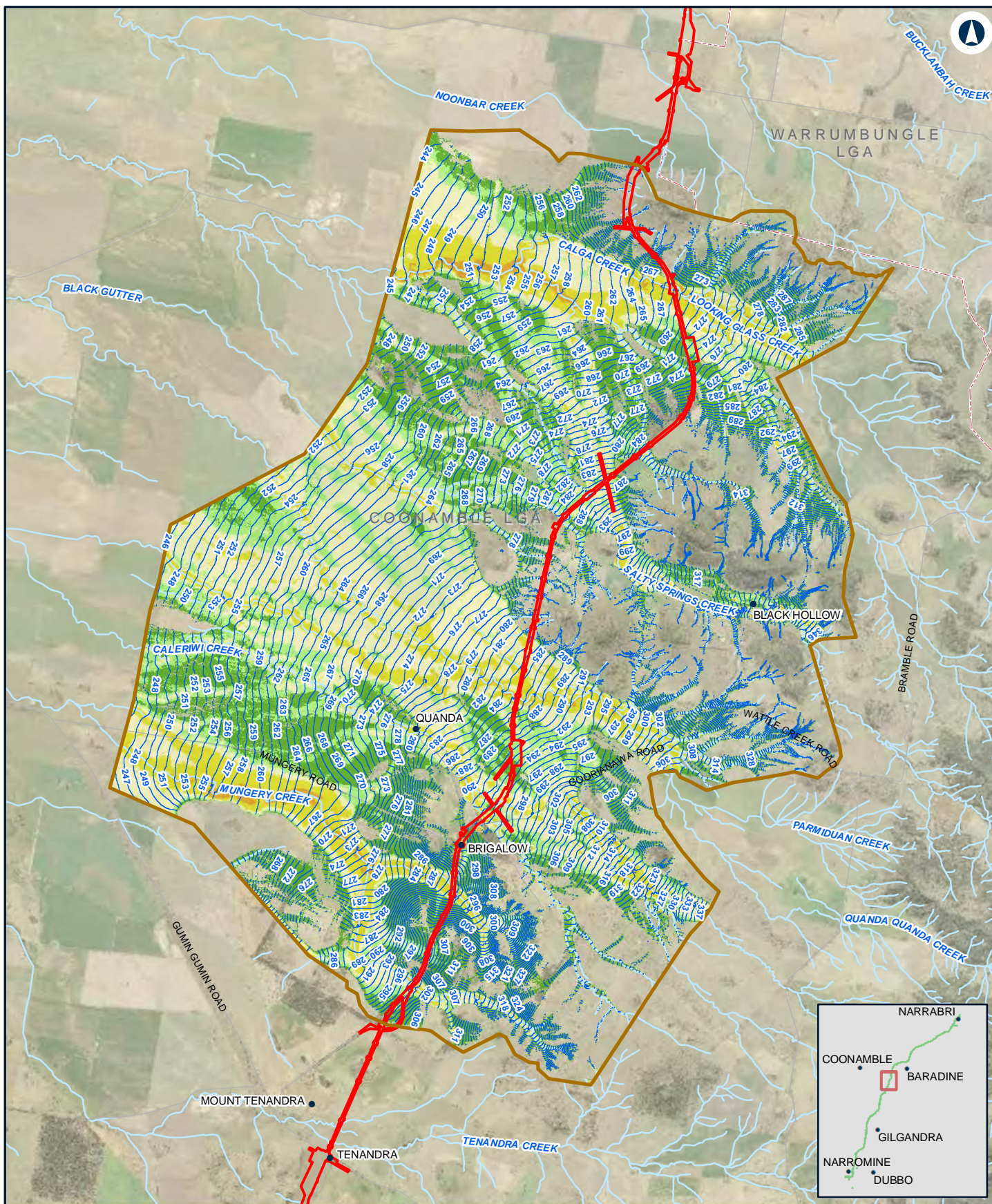
- The proposal site
- Model boundary
- Flood level (mAHD)
- 1.0m - 2.0m
- > 2.0m

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 -N2N8

Appendix D - Figure 1.8g

0 1.5 3 Km

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Date: 27/10/2020
Author: JacobsGHD

Paper: A4
Scale: 1:109,840

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

LEGEND

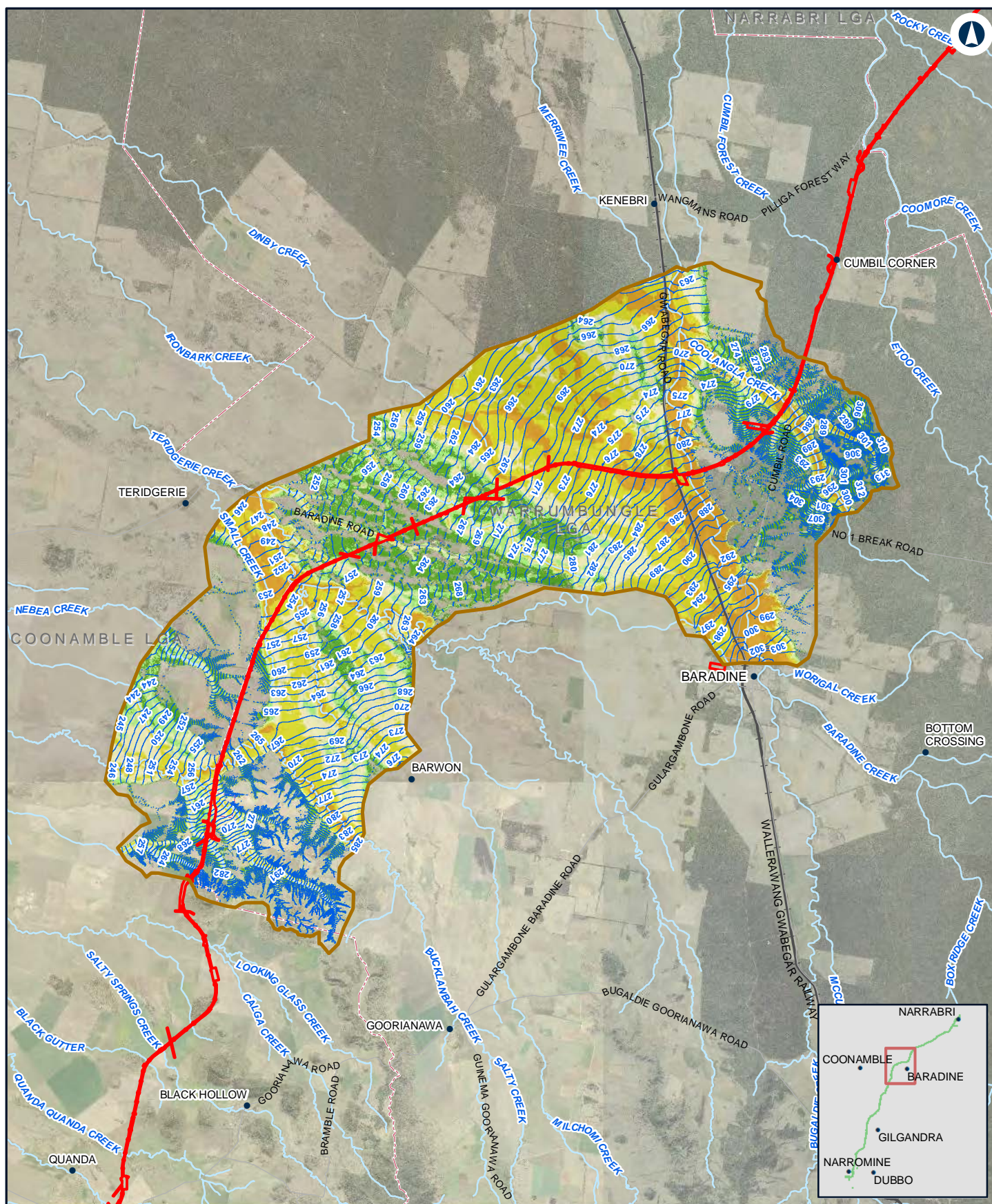
- The proposal site
- Model boundary
- Flood level (mAHD)
- 1.0m - 2.0m
- > 2.0m

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 -N2N7

Appendix D - Figure 1.8h

0 3 6 Km

Coordinate System: GDA 1994 MGA Zone 55

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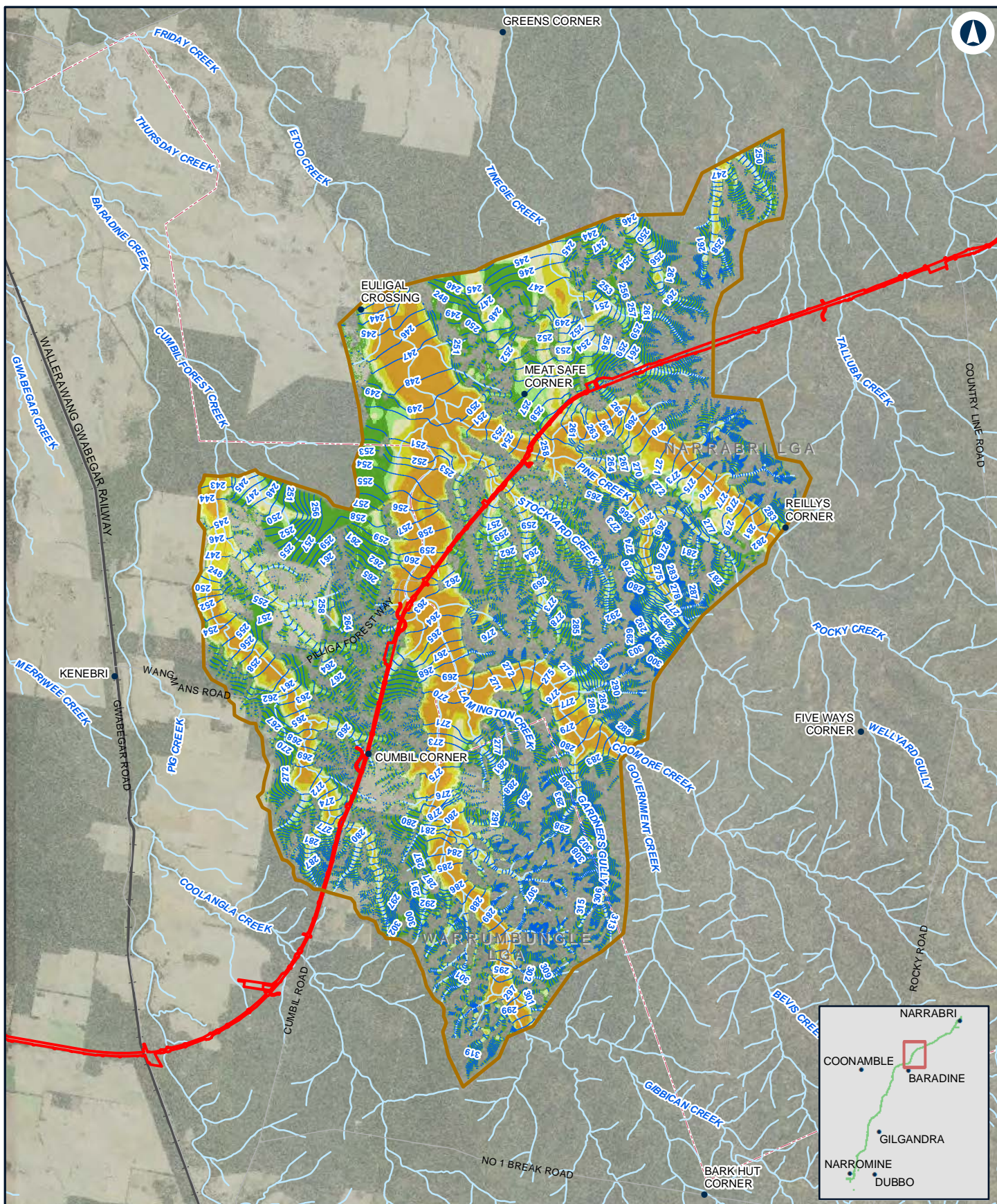
Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:212,360

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



NARROMINE TO NARRABRI

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

Appendix D - Figure 1.8i

0 2 4
Km

Coordinate System: GDA 1994 MGA Zone 55

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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

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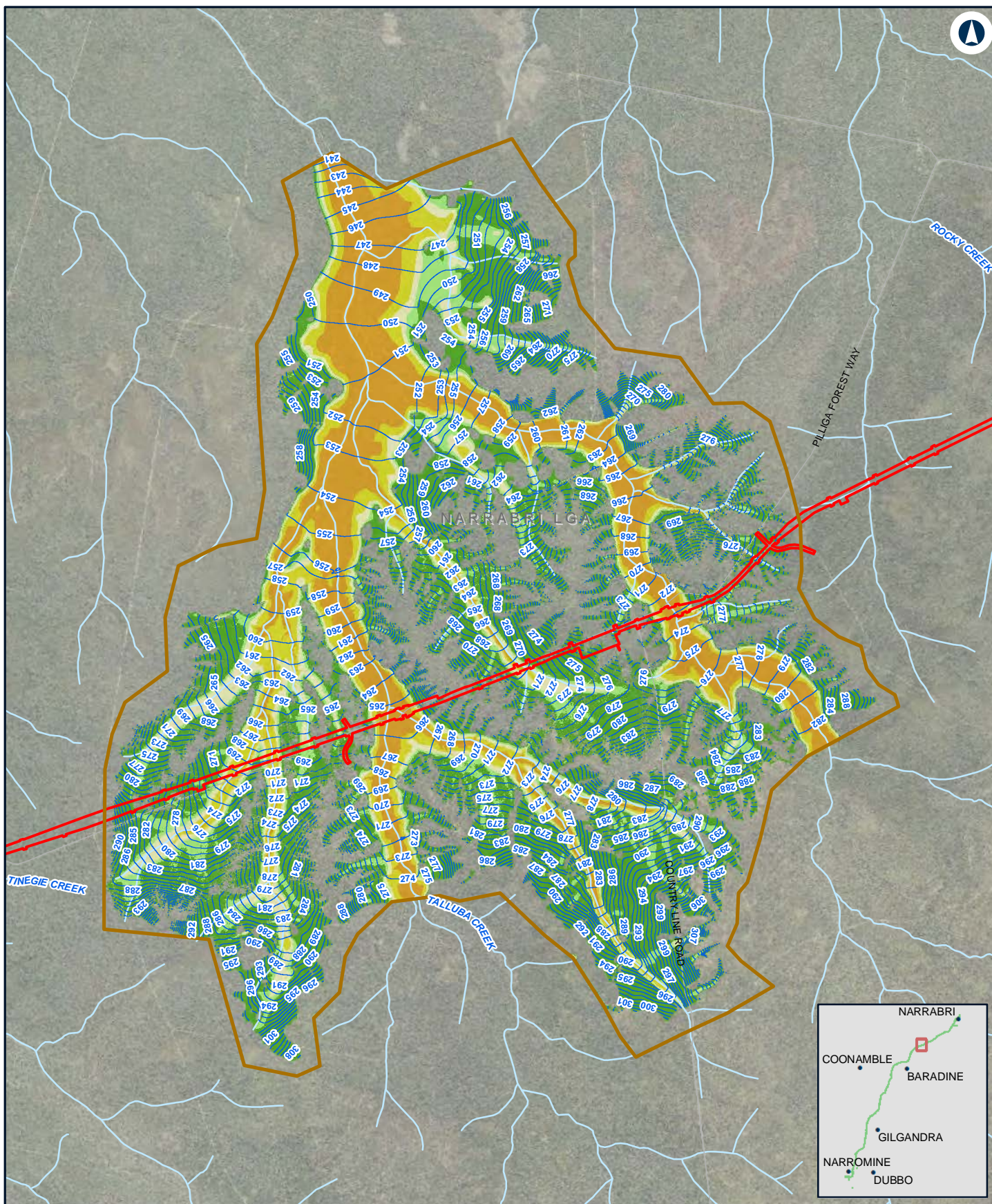
- The proposal site
- Model boundary
- Flood level (mAHd)
- 1.0m - 2.0m
- > 2.0m

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 -N2N5

Appendix D - Figure 1.8j

0 0.95 1.9
Km

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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

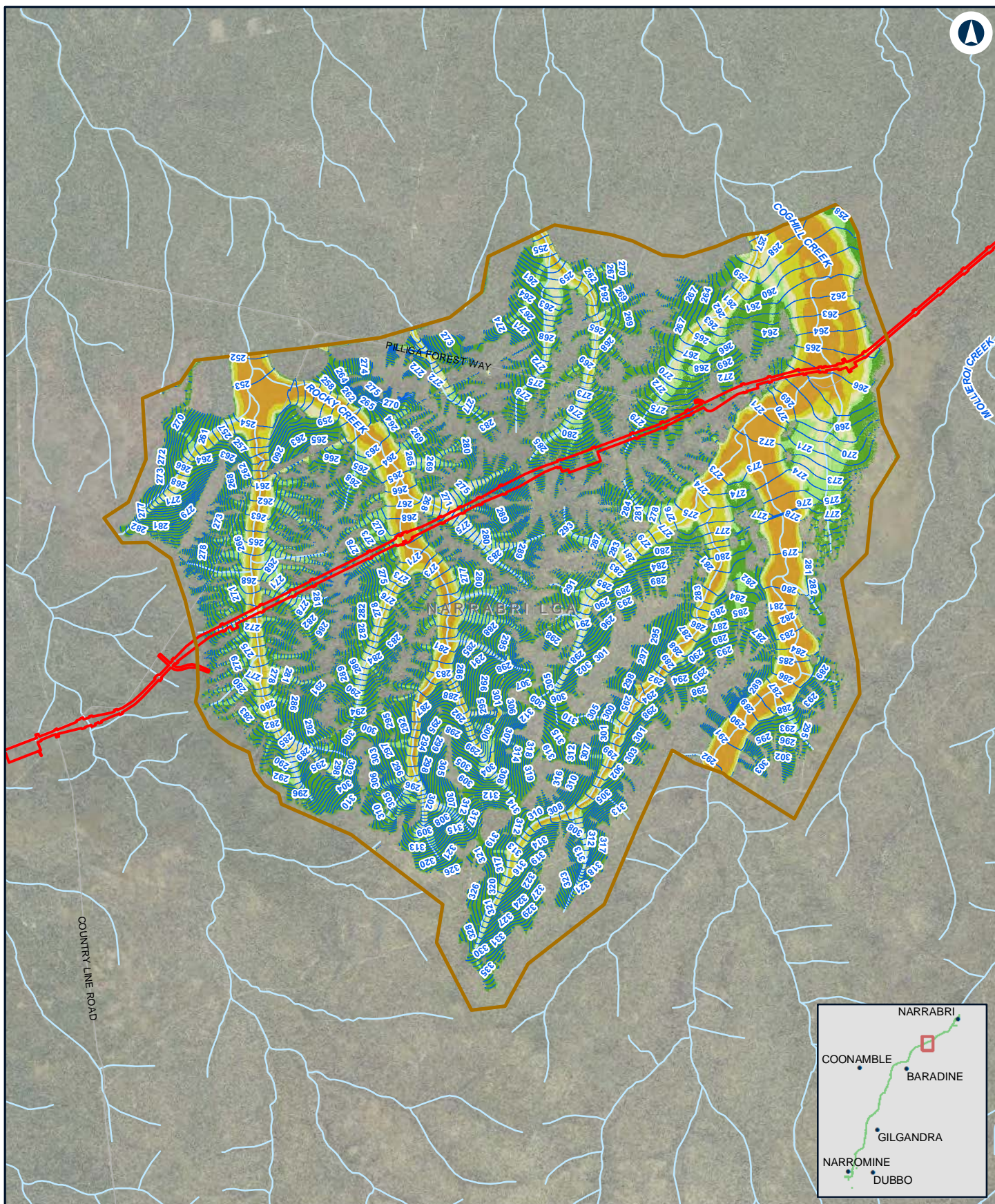
- The proposal site
- Model boundary
- Flood level (mAHD)
- 1.0m - 2.0m
- > 2.0m

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

0 1 2
Km

Coordinate System: GDA 1994 MGA Zone 55

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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

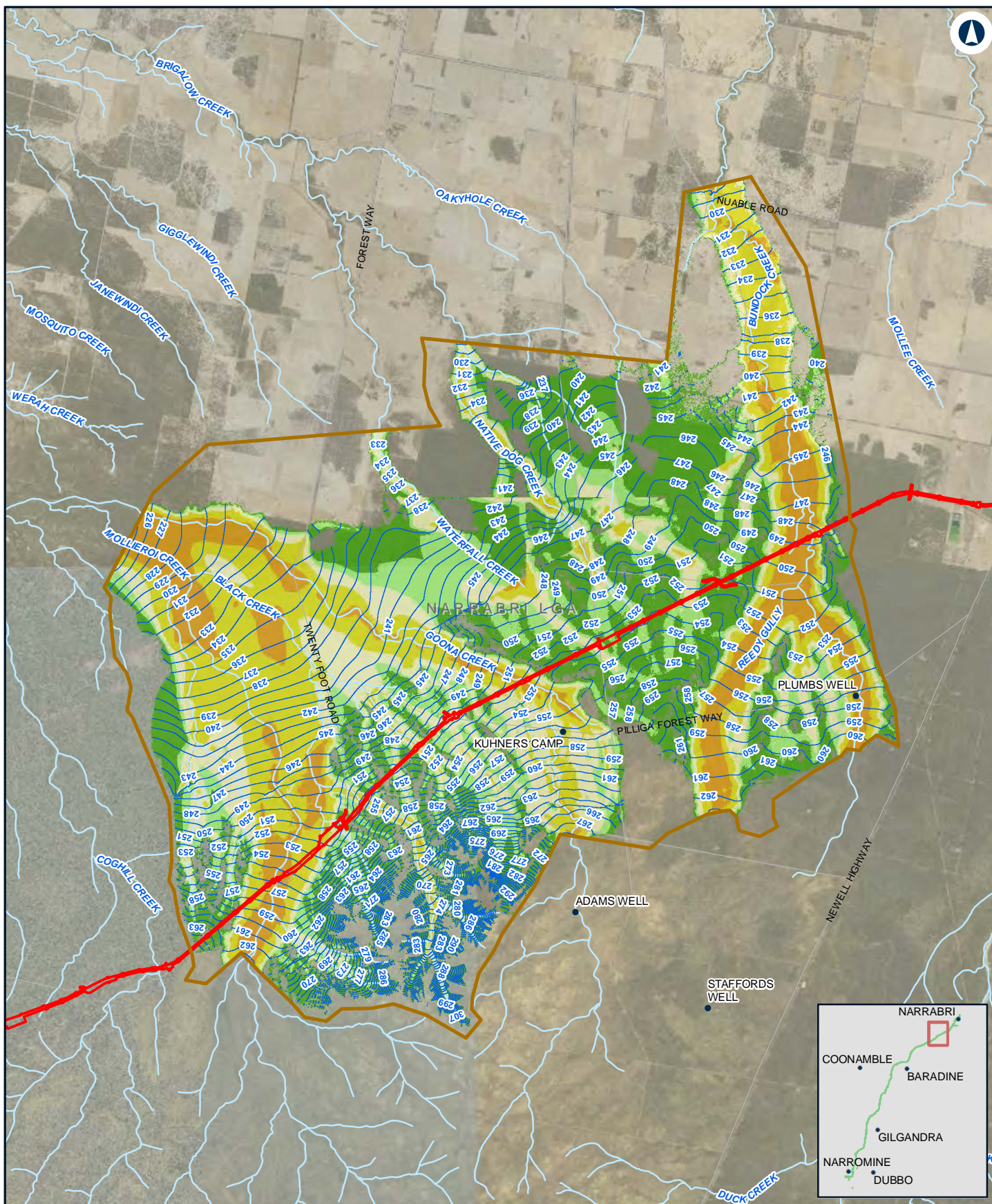
- The proposal site
- Model boundary
- Flood level (mAHD)
- 1.0m - 2.0m
- > 2.0m

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

0 1.5 3 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020
Author: JacobsGHD

Paper: A4
Scale: 1:139,650

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

LEGEND

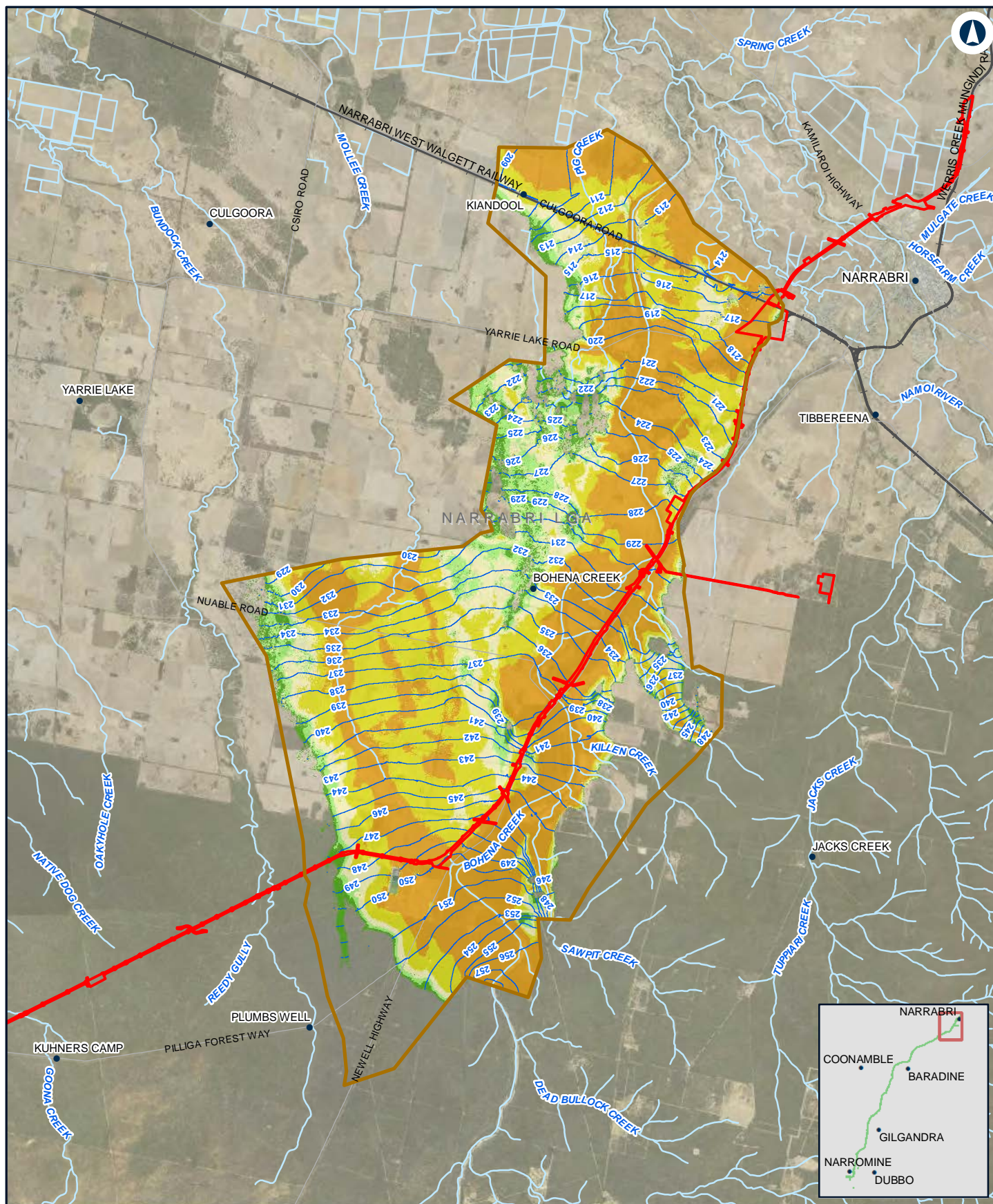
- The proposal site
- Model boundary
- Flood level (mAHD)
- 1.0m - 2.0m
- > 2.0m

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 -N2N1

Appendix D - Figure 1.8m

0 2 4
Km

Coordinate System: GDA 1994 MGA Zone 55

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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

LEGEND

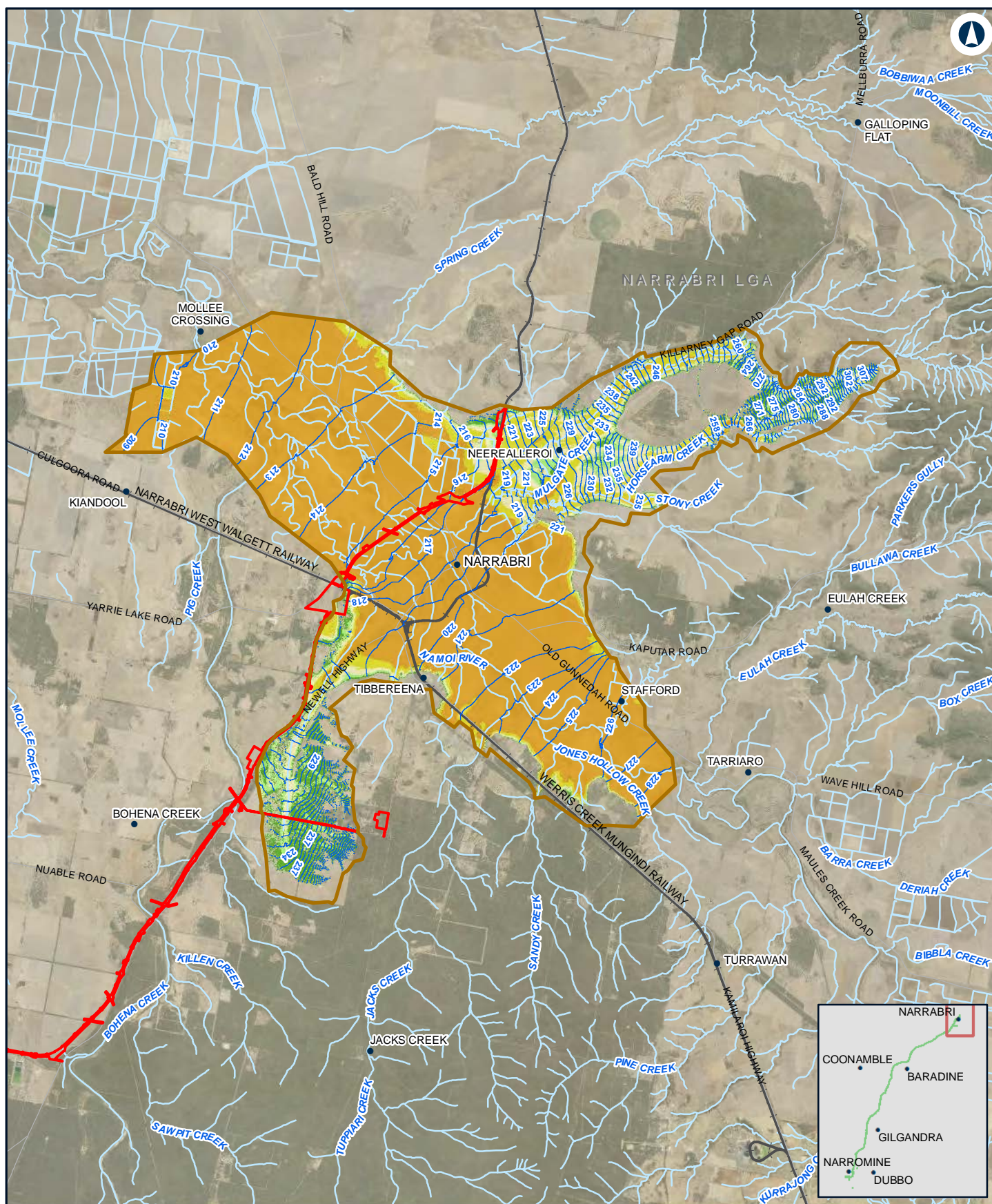
- The proposal site
- Model boundary
- Flood level (mAHd)
- 1.0m - 2.0m
- > 2.0m

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 -Narrabri

Appendix D - Figure 1.8n

0 2.5 5 Km

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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

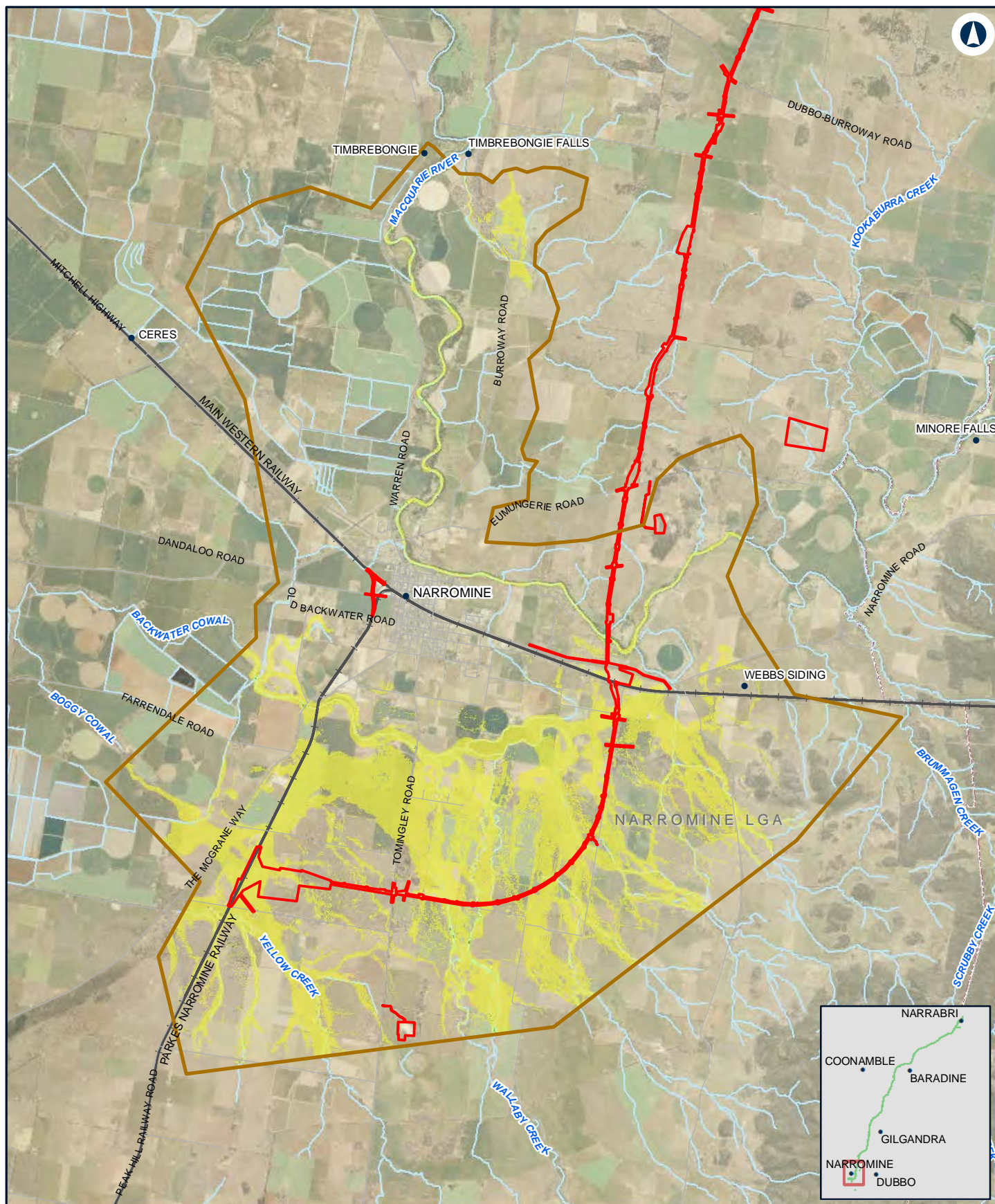
- The proposal site
- Model boundary
- Flood level (mAHD)
- 1.0m - 2.0m
- > 2.0m

Flood depth

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

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0 1.5 3 Km

Coordinate System: GDA 1994 MGA Zone 55

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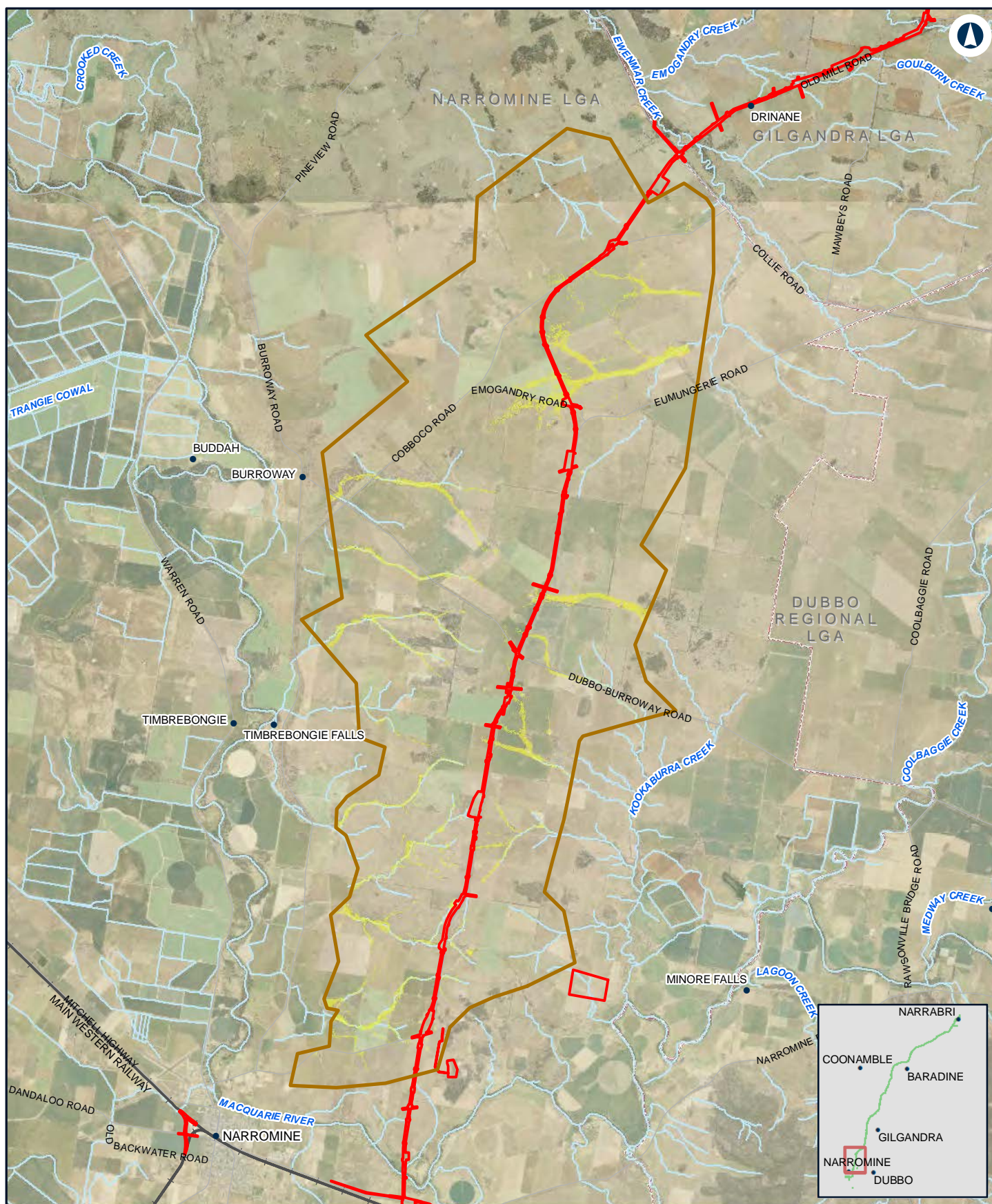
Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:140,000

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



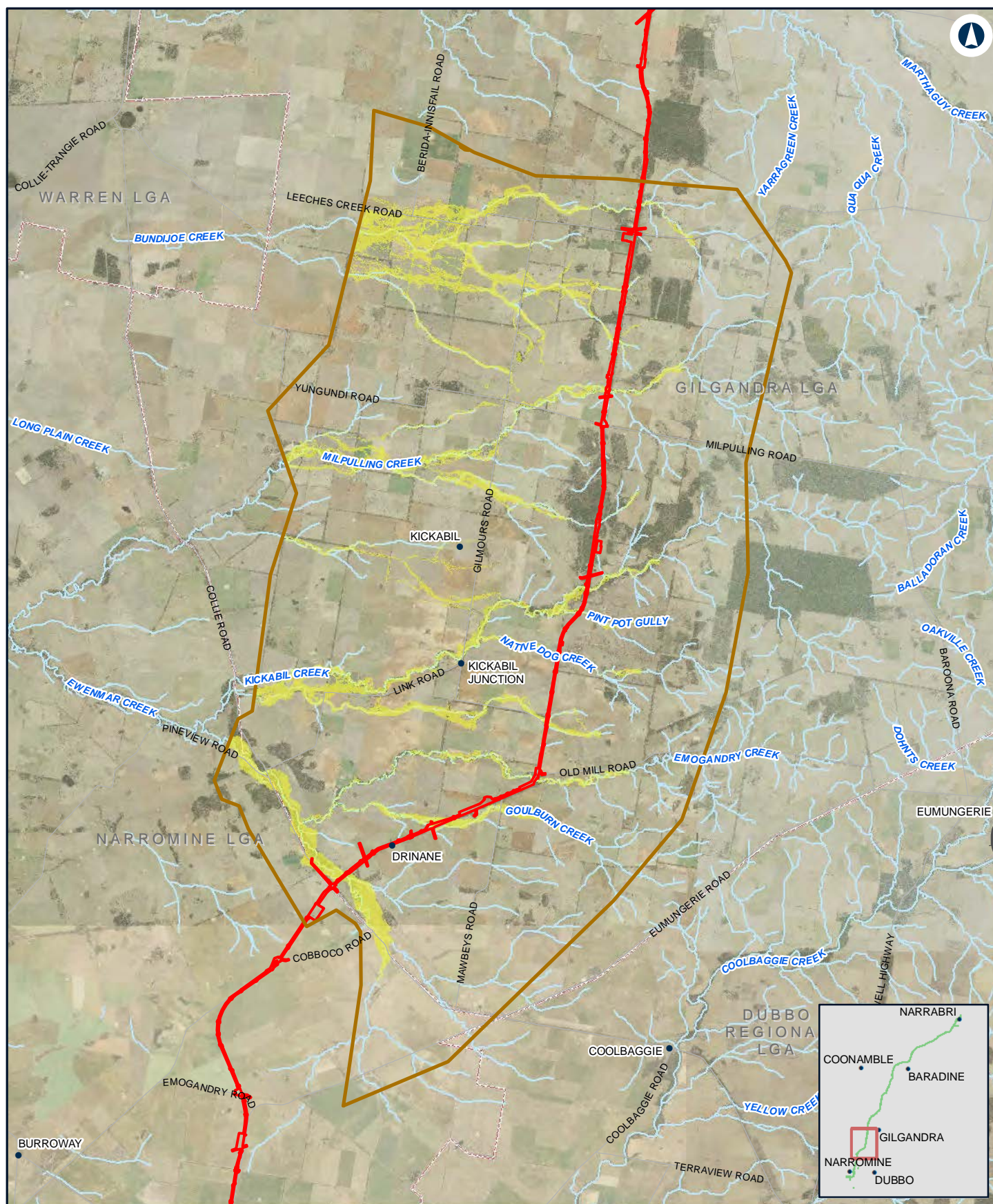
0 2 4 Km

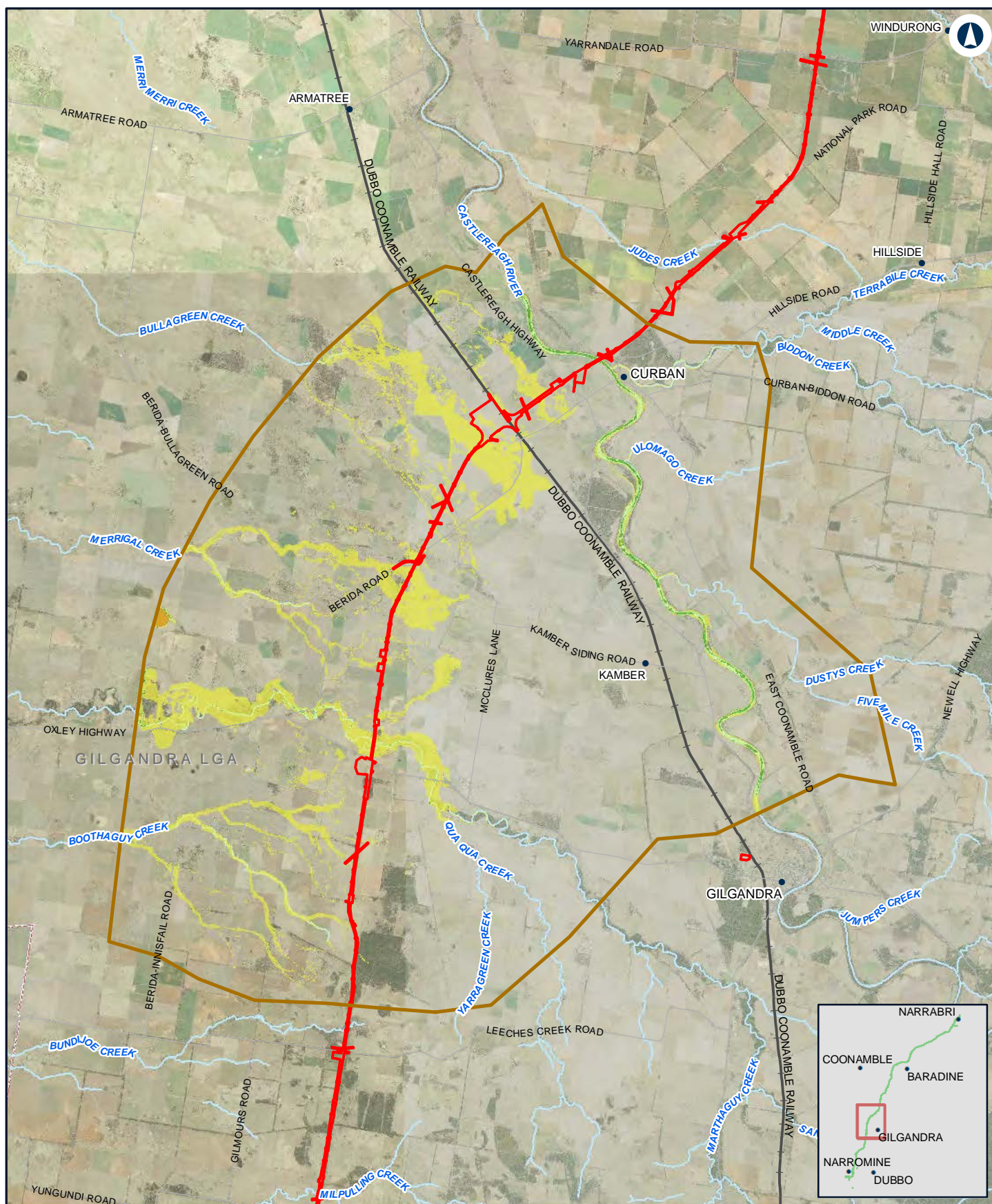
Coordinate System: GDA 1994 MGA Zone 55

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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





NARROMINE TO NARRABRI

Existing peak velocity - 20% AEP - N2N11N12

Appendix D Figure 2.1d

0 2.5 5
Km

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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

Flood velocity

0.0m/s - 1.0m/s

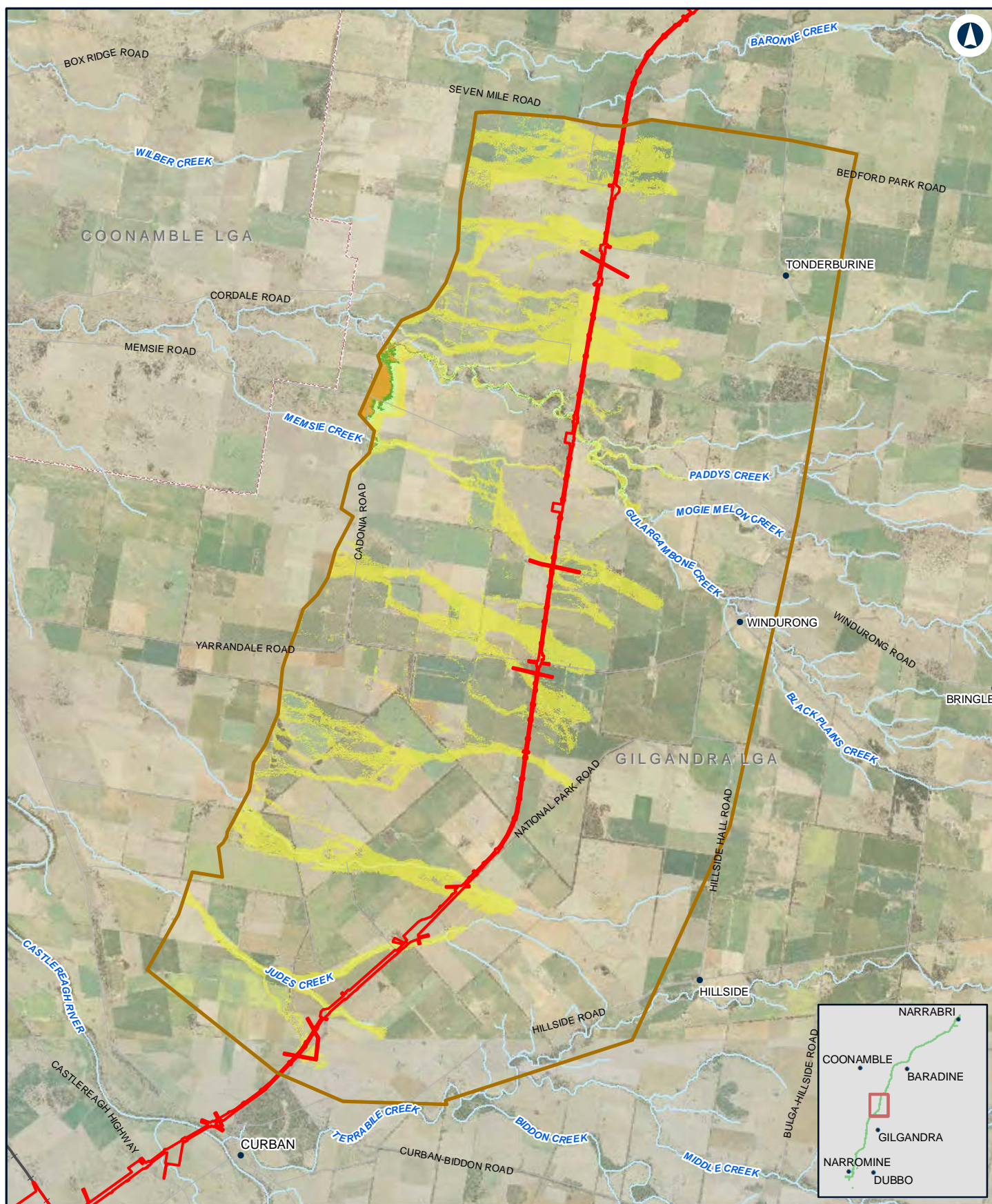
1.0m/s - 1.5m/s

1.5m/s - 2.0m/s

> 2.0m/s

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NARROMINE TO NARRABRI

Existing peak velocity - 20% AEP - N2N10

Appendix D Figure 2.1e

0 1.5 3
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020
Author: JacobsGHD

Paper: A4
Scale: 1:130,000

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

LEGEND

The proposal site

Model boundary

Flood velocity

0.0m/s - 1.0m/s

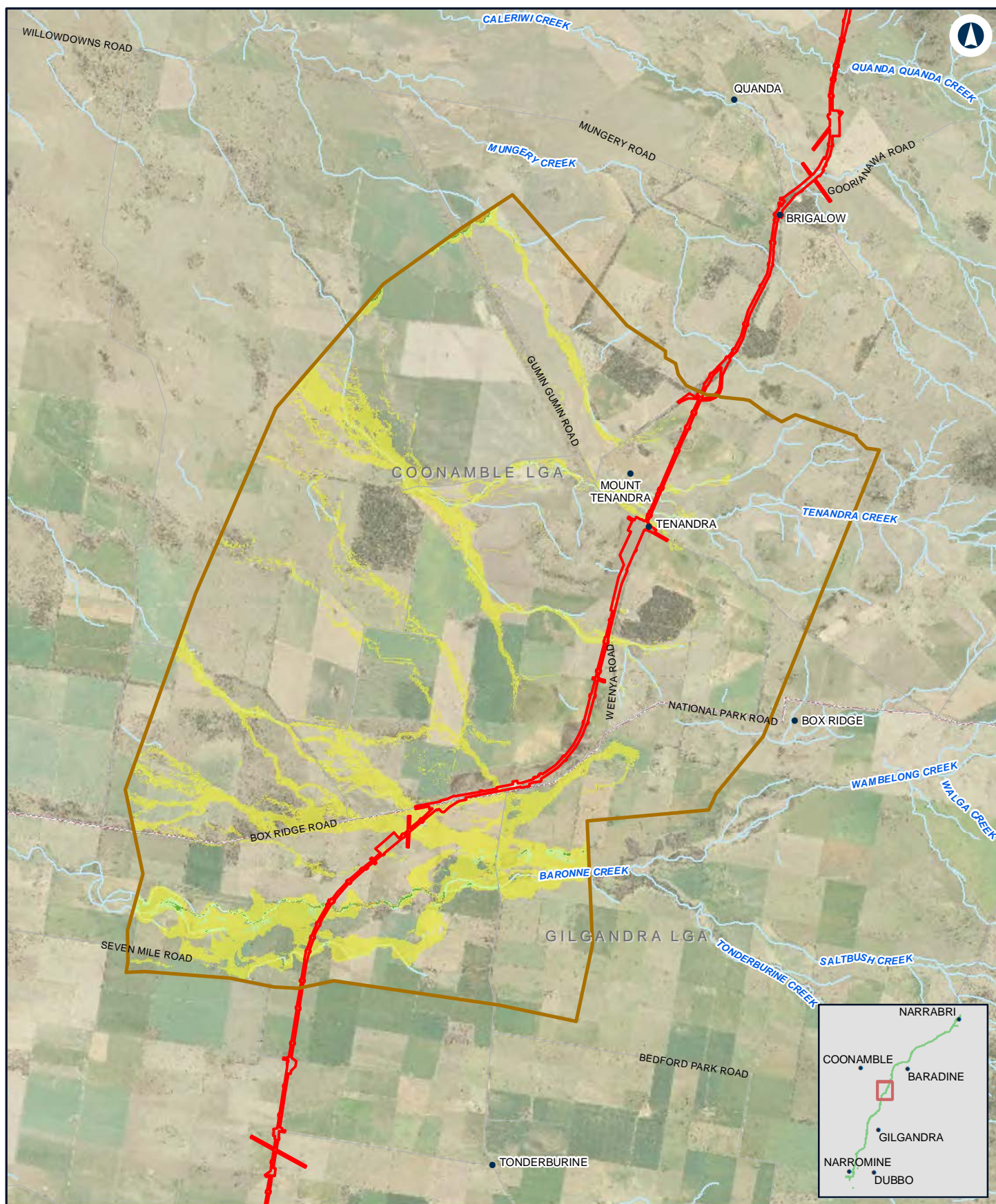
1.0m/s - 1.5m/s

1.5m/s - 2.0m/s

> 2.0m/s

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NARROMINE TO NARRABRI

Existing peak velocity - 20% AEP - N2N9

Appendix D Figure 2.1f

0 1.5 3 Km

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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

The proposal site

Model boundary

Flood velocity

0.0m/s - 1.0m/s

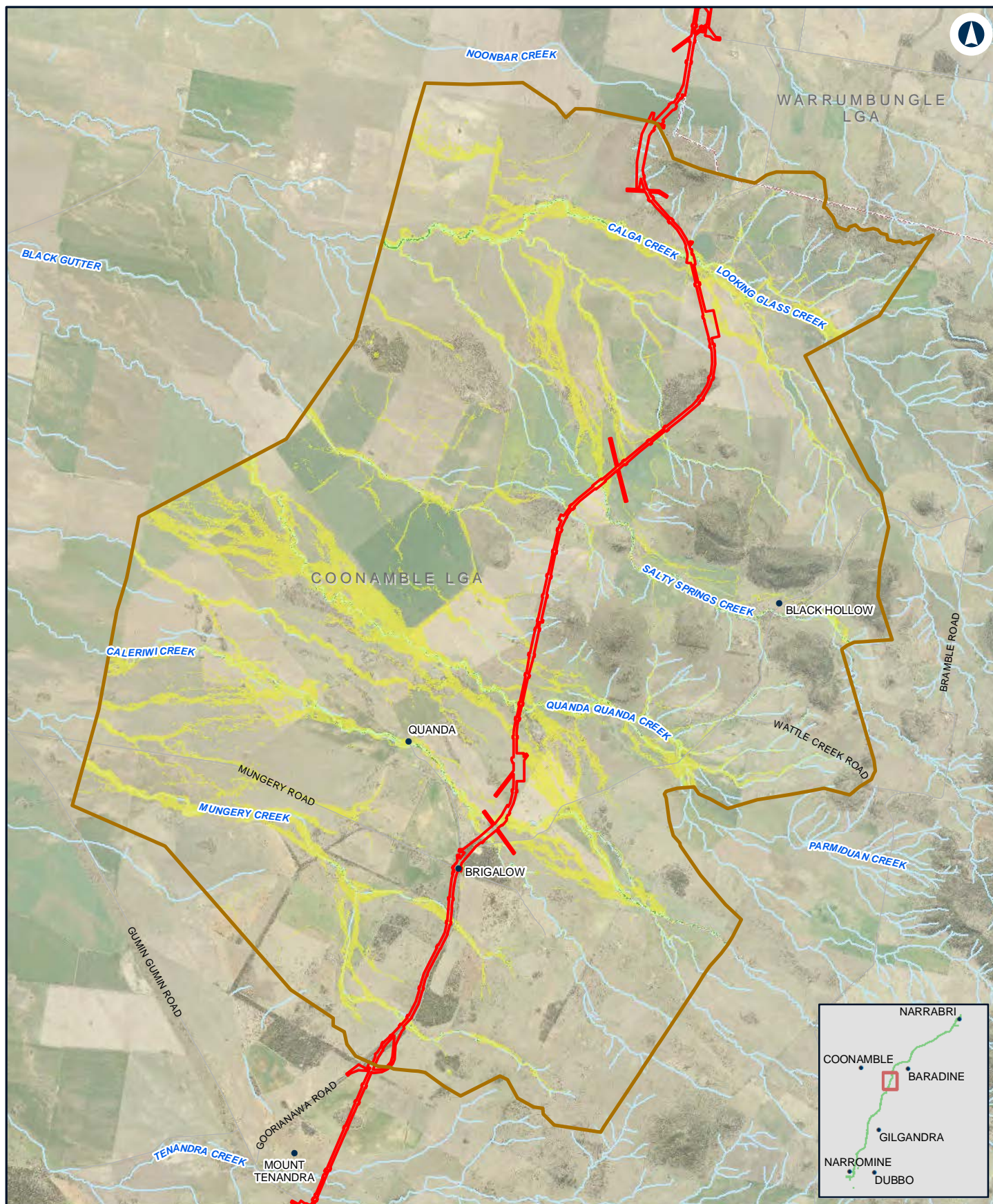
1.0m/s - 1.5m/s

1.5m/s - 2.0m/s

> 2.0m/s

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Narromine to Narrabri

Existing peak velocity - 20% AEP - N2N8

Appendix D Figure 2.1g

0 1 2
Km

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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

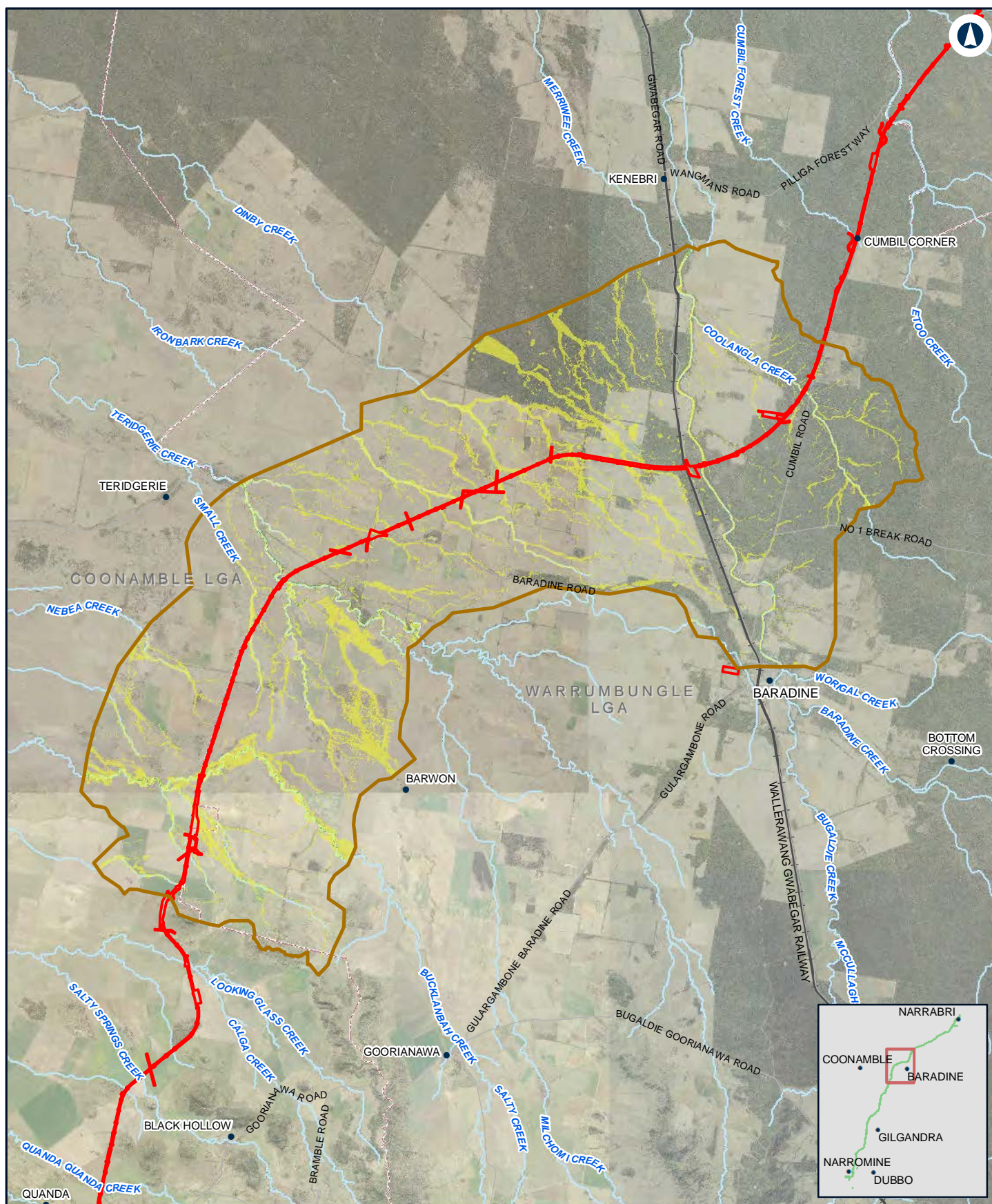
1.0m/s - 1.5m/s

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

0 2.5 5
Km

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

Flood velocity

0.0m/s - 1.0m/s

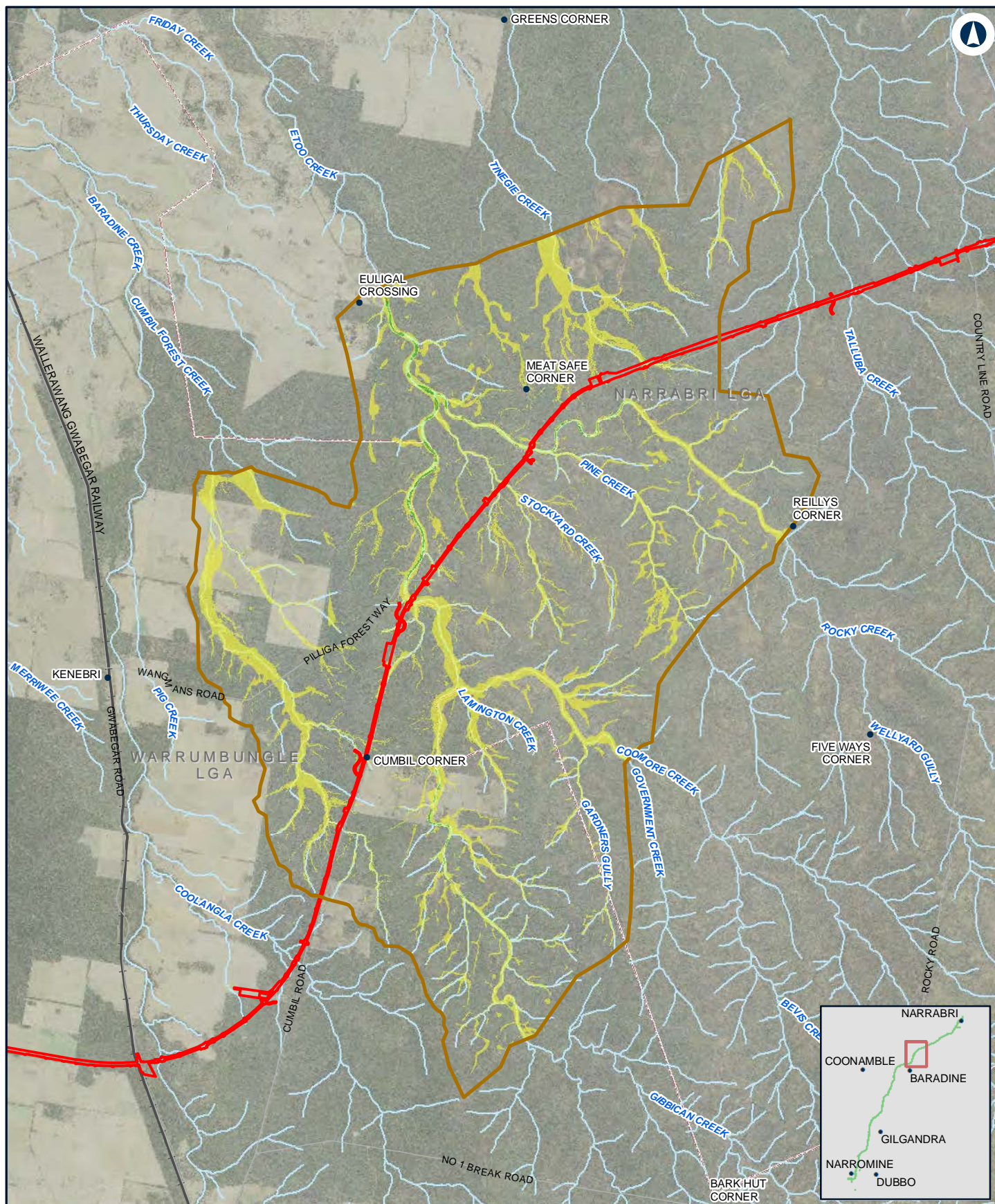
1.0m/s - 1.5m/s

1.5m/s - 2.0m/s

> 2.0m/s

INLAND RAIL **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 velocity - 20% AEP - N2N6

Appendix D Figure 2.1i

0 2 4
Km

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
Author: JacobsGHD

Paper: A4
Scale: 1:150,000

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

LEGEND

The proposal site

Model boundary

Flood velocity

0.0m/s - 1.0m/s

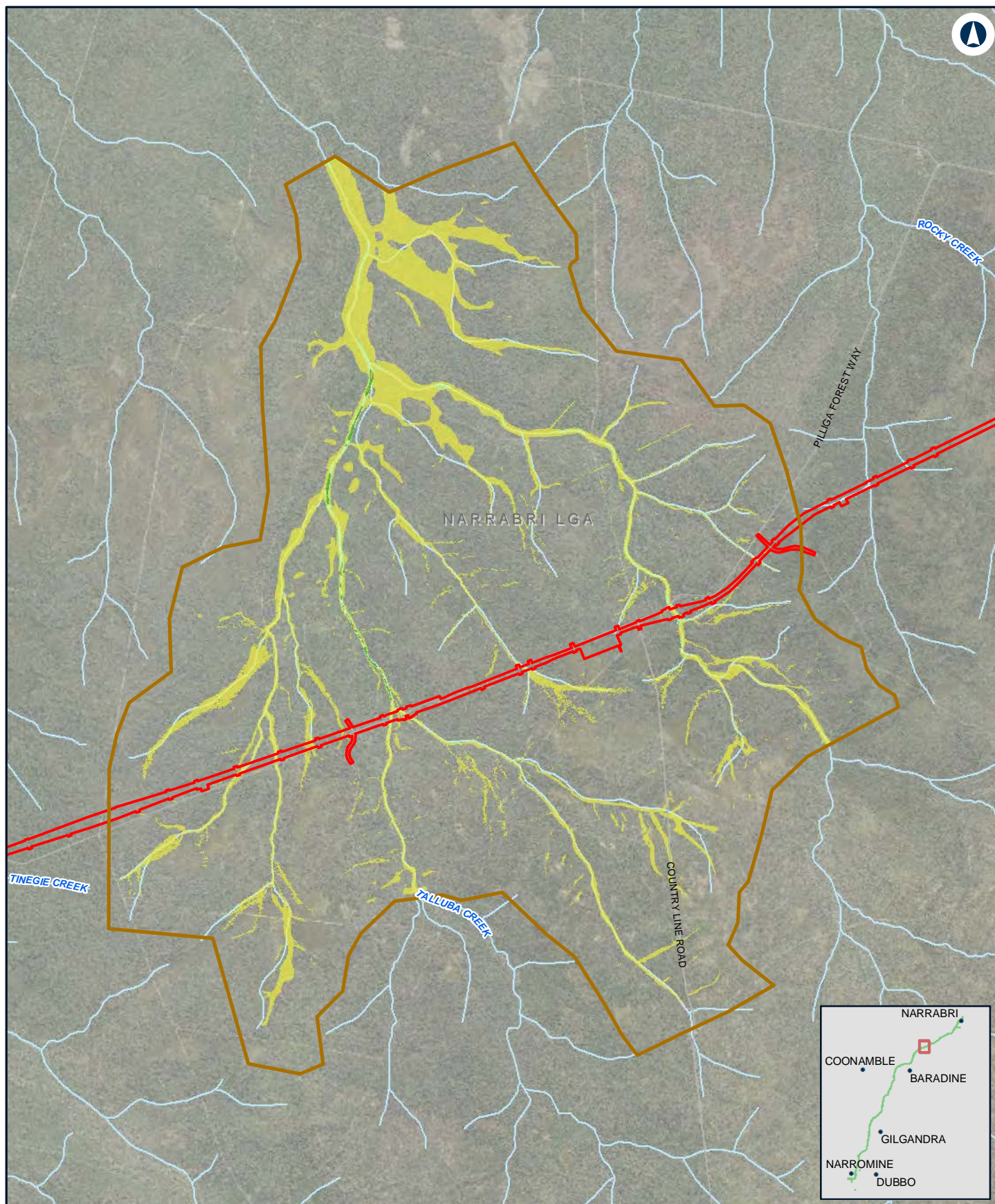
1.0m/s - 1.5m/s

1.5m/s - 2.0m/s

> 2.0m/s

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Existing peak velocity - 20% AEP - N2N5

Appendix D Figure 2.1j

0 1 2 Km

Coordinate System: GDA 1994 MGA Zone 55

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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

Flood velocity

0.0m/s - 1.0m/s

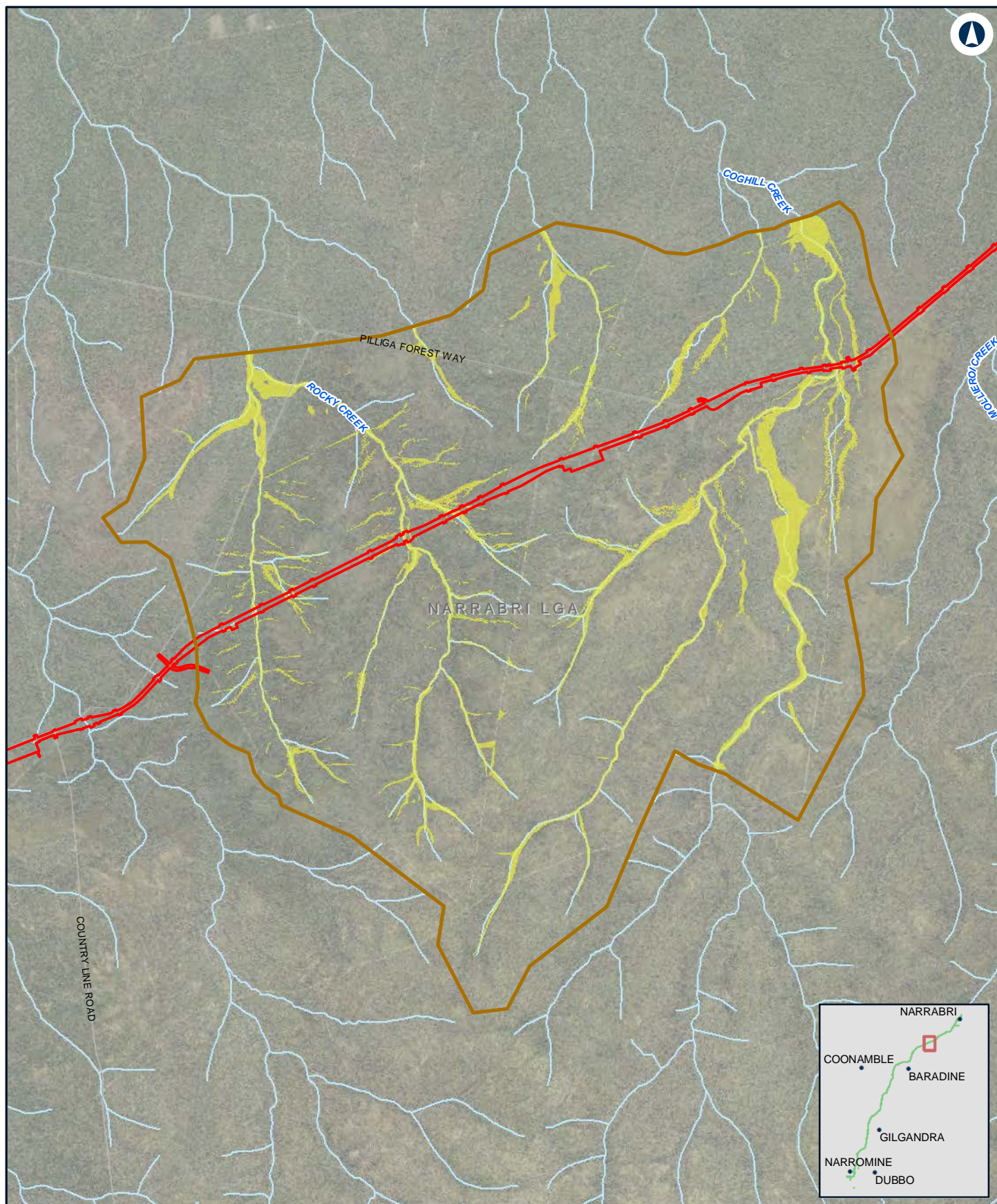
1.0m/s - 1.5m/s

1.5m/s - 2.0m/s

> 2.0m/s

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Existing peak velocity - 20% AEP - N2N4

Appendix D Figure 2.1k

0 1 2 Km

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: 1:80,000

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

LEGEND

 The proposal site

 Model boundary

Flood velocity

 0.0m/s - 1.0m/s

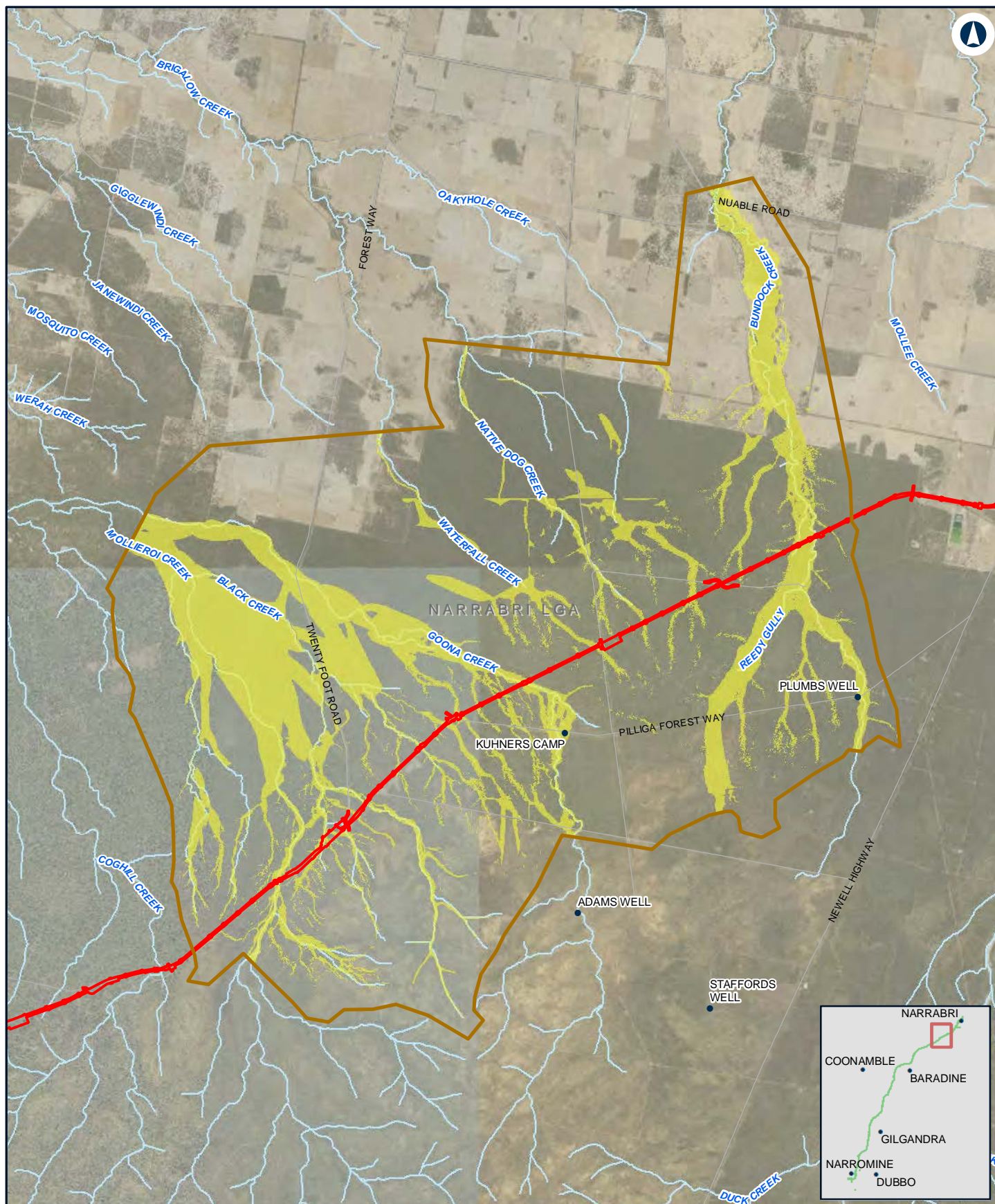
 1.0m/s - 1.5m/s

 1.5m/s - 2.0m/s

 > 2.0m/s

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Existing peak velocity - 20% AEP - N2N23

Appendix D Figure 2.1f

0 1.5 3 Km

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

Flood velocity

0.0m/s - 1.0m/s

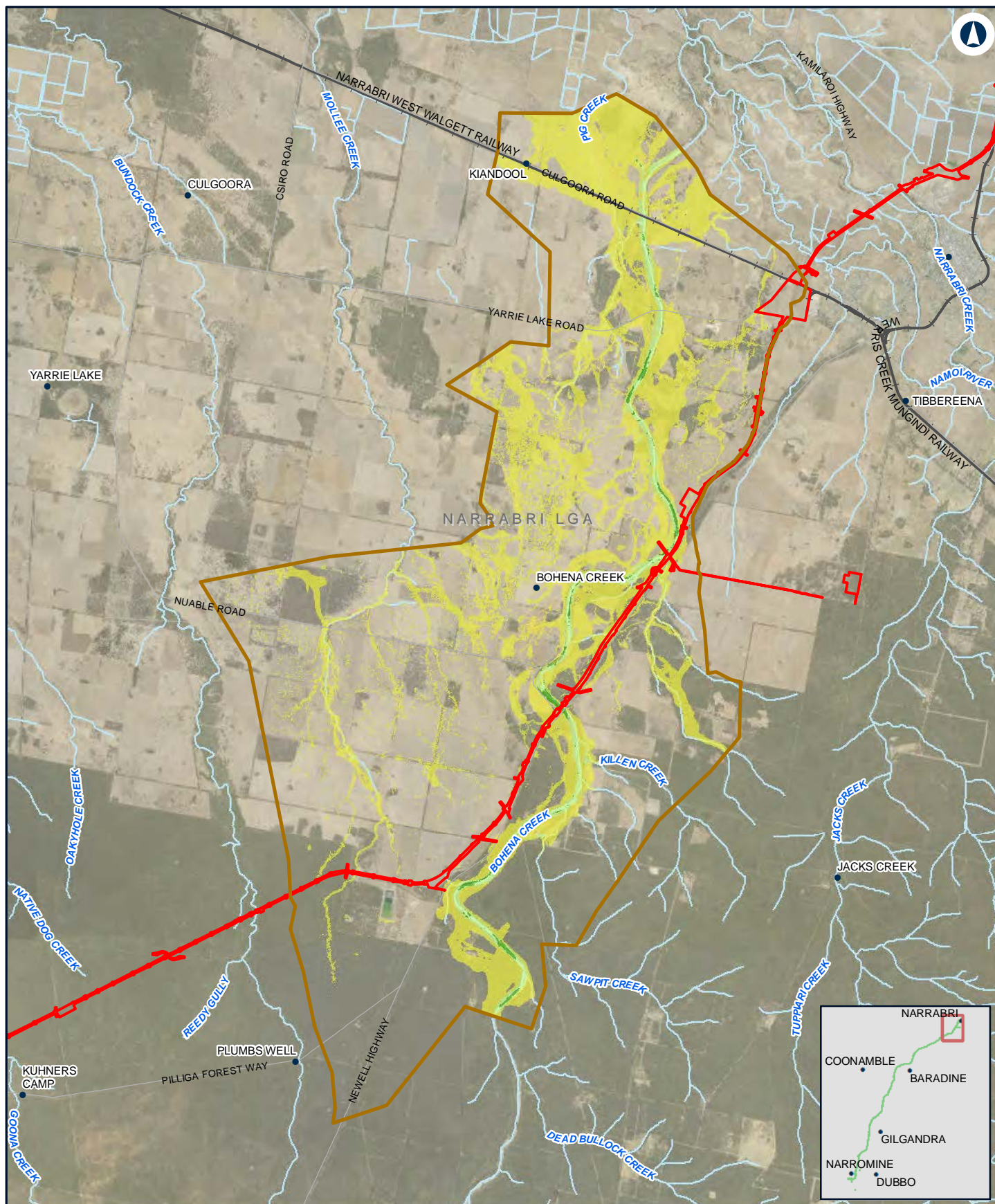
1.0m/s - 1.5m/s

1.5m/s - 2.0m/s

> 2.0m/s

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Existing peak velocity - 20% AEP - N2N1

Appendix D Figure 2.1m

0 2 4 Km

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

The proposal site

Model boundary

Flood velocity

0.0m/s - 1.0m/s

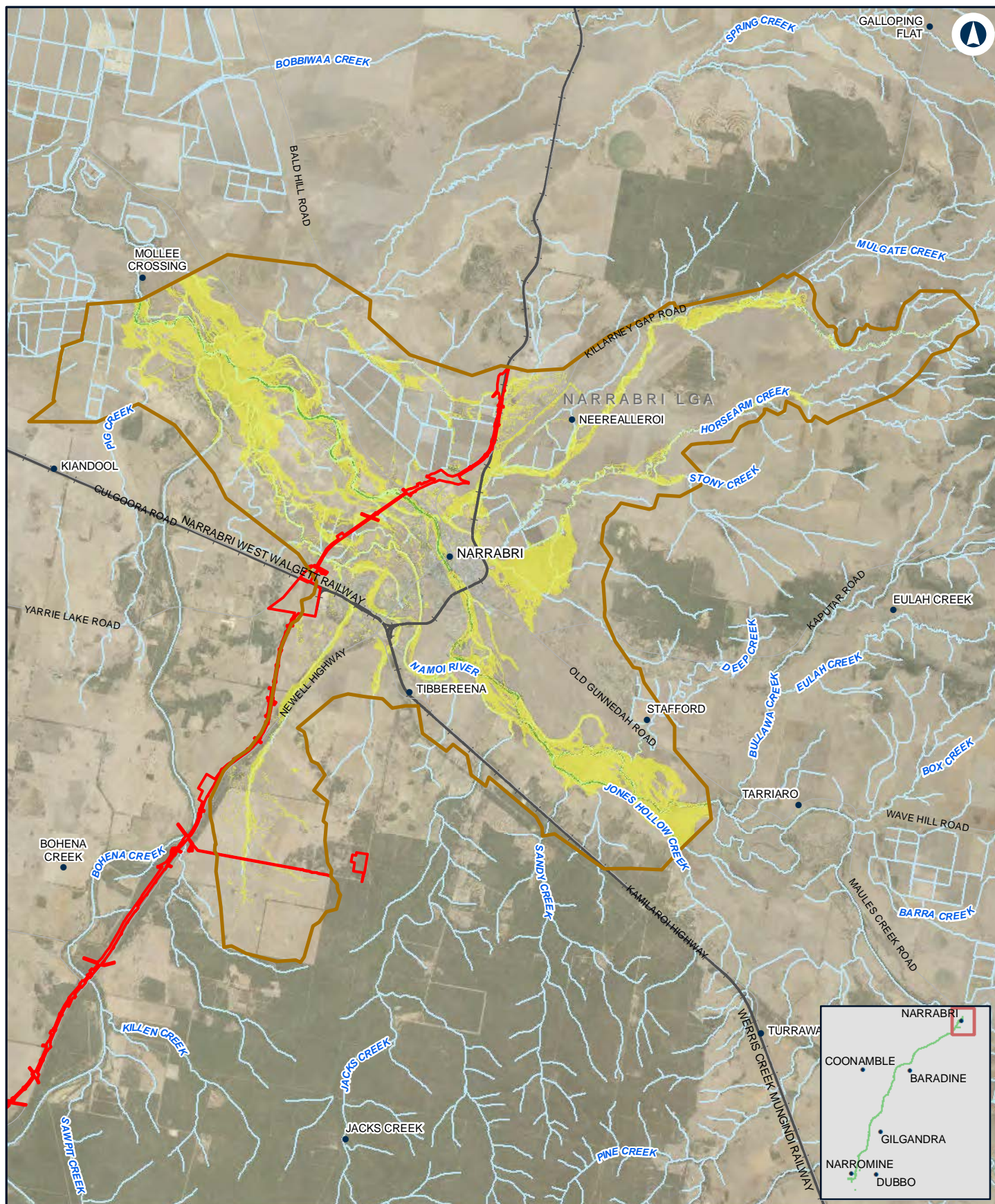
1.0m/s - 1.5m/s

1.5m/s - 2.0m/s

> 2.0m/s

INLAND RAIL **ARTC**

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NARRABRI TO NARRABRI

Existing peak velocity - 20% AEP - Narrabri

Appendix D Figure 2.1n

0 2 4
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020
Author: JacobsGHD

Paper: A4
Scale: 1:160,000

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

LEGEND

 The proposal site

 Model boundary

Flood velocity

0.0m/s - 1.0m/s

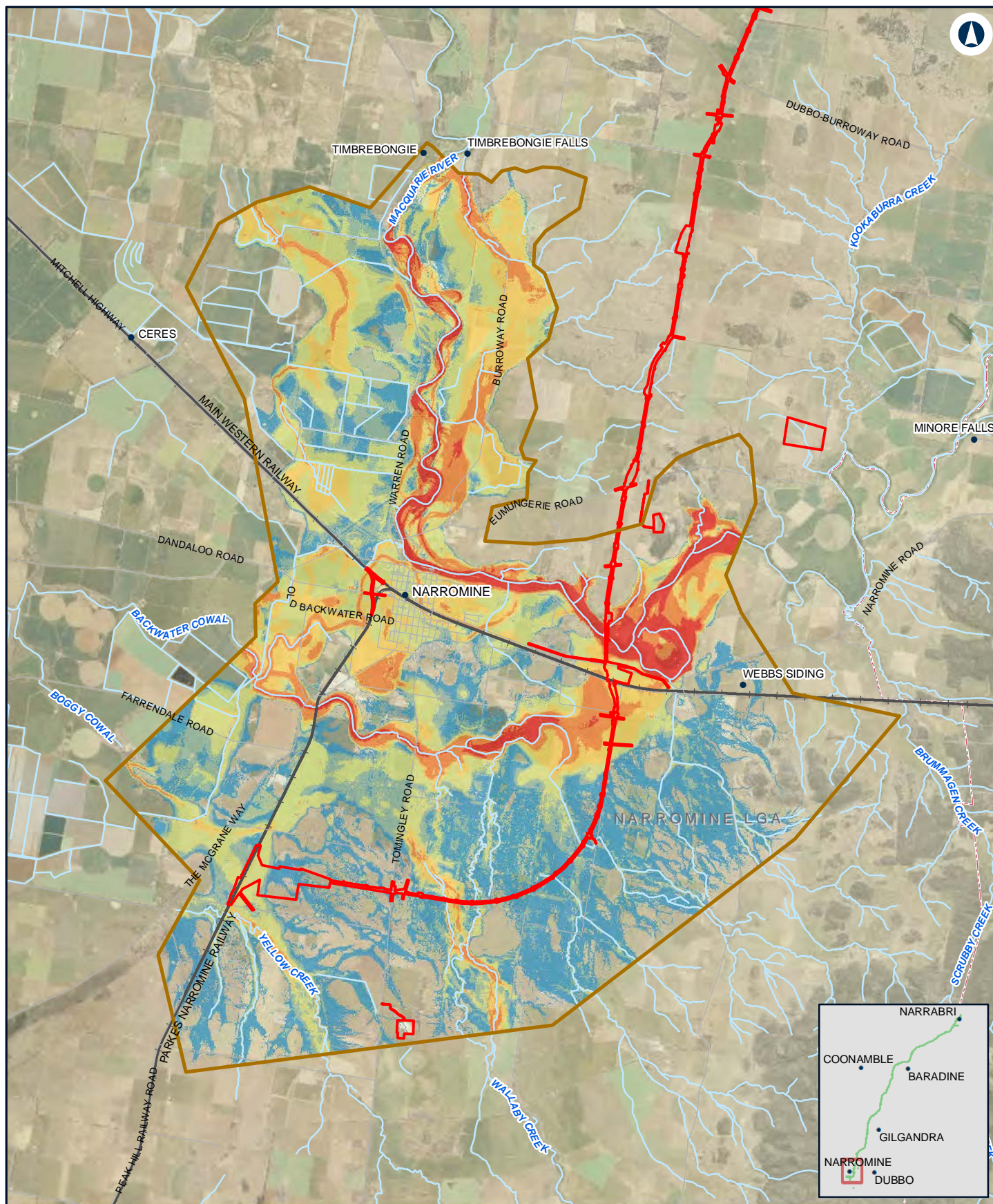
1.0m/s - 1.5m/s

1.5m/s - 2.0m/s

> 2.0m/s

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

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

Appendix D - Figure 4.5a

0 1.5 3 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:140,000

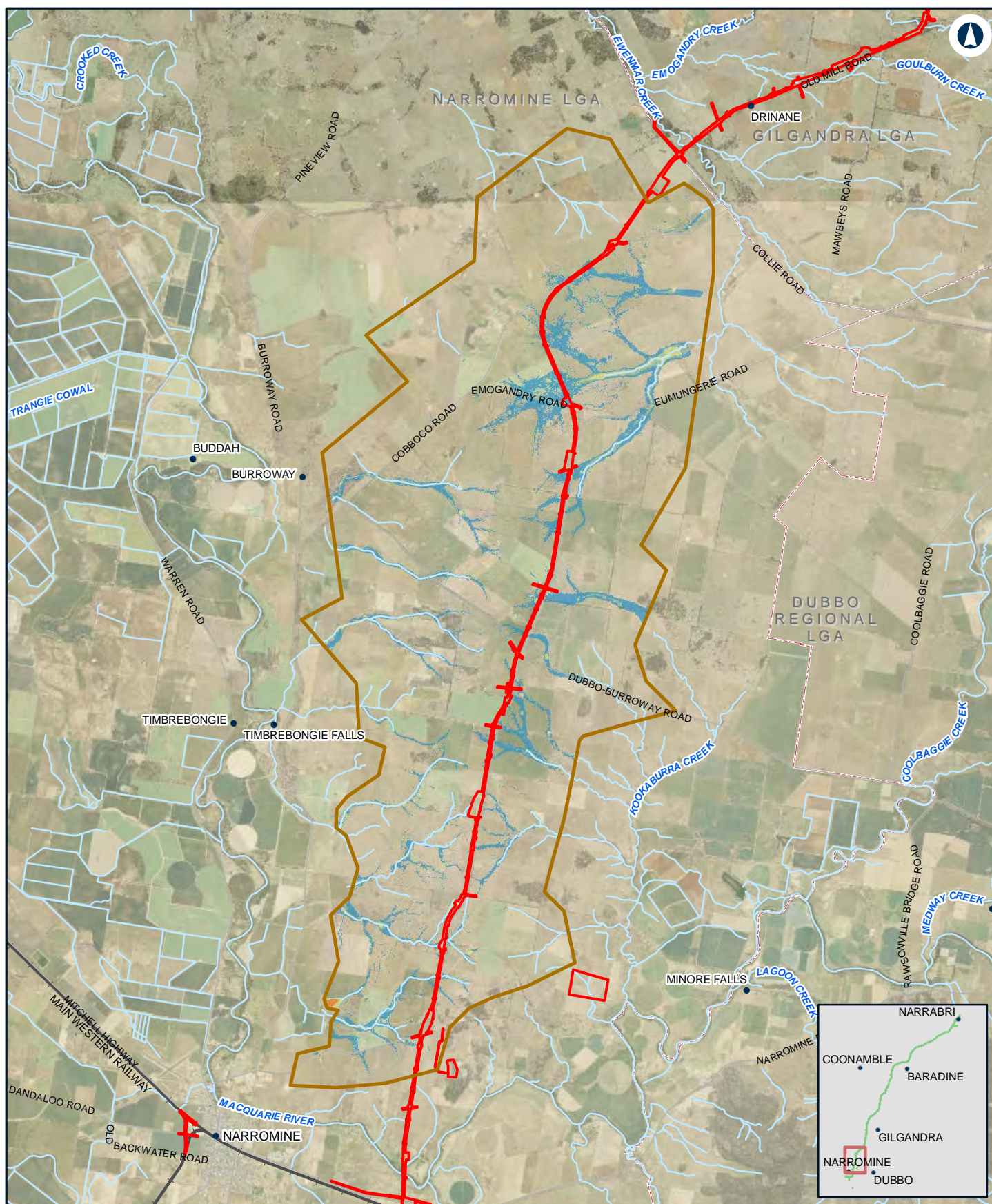
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

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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0 2 4 Km

Coordinate System: GDA 1994 MGA Zone 55

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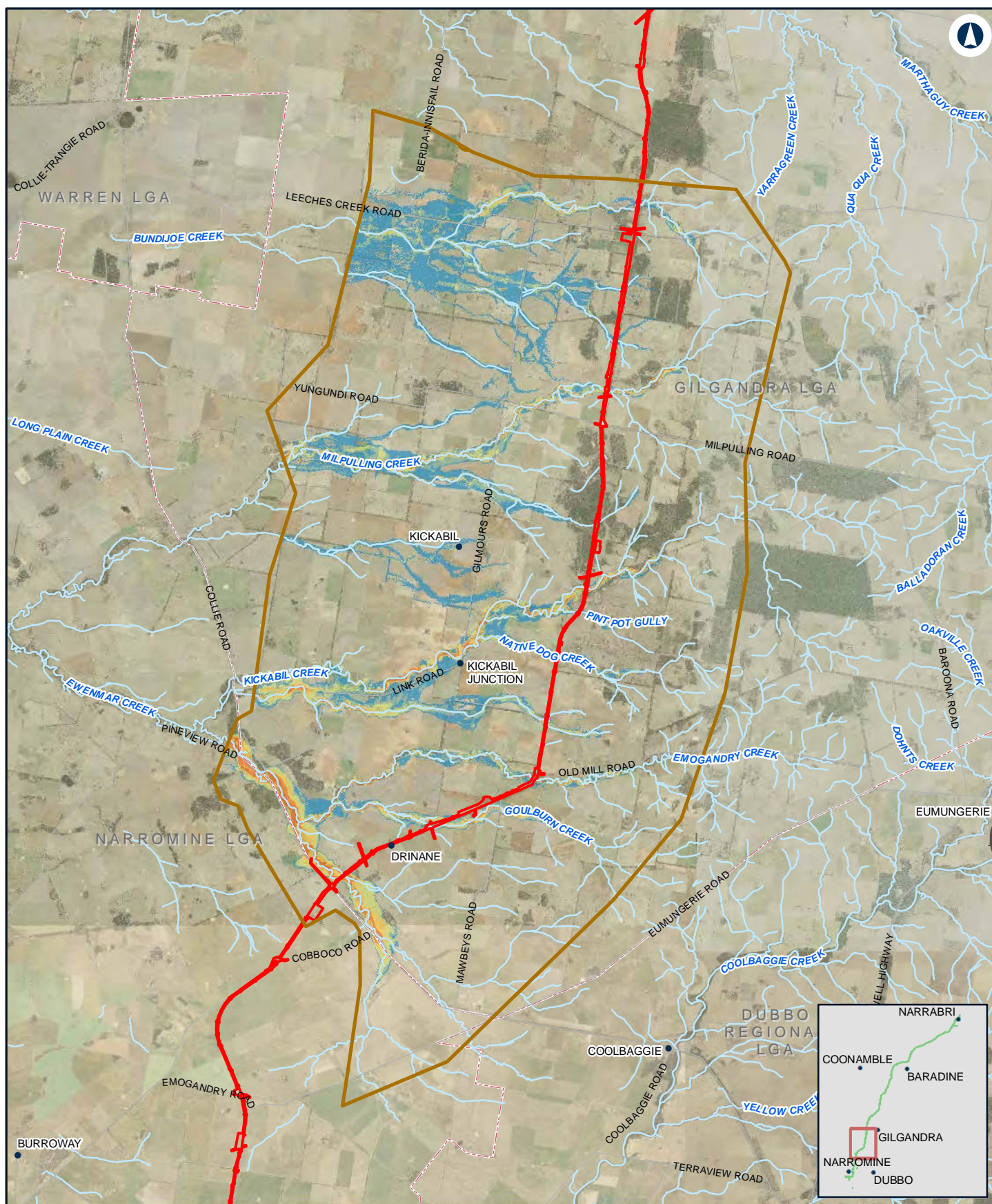
Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:150,000

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



NARROMINE TO NARRABRI

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

Appendix D - Figure 4.5c

0 2.5 5
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:180,000

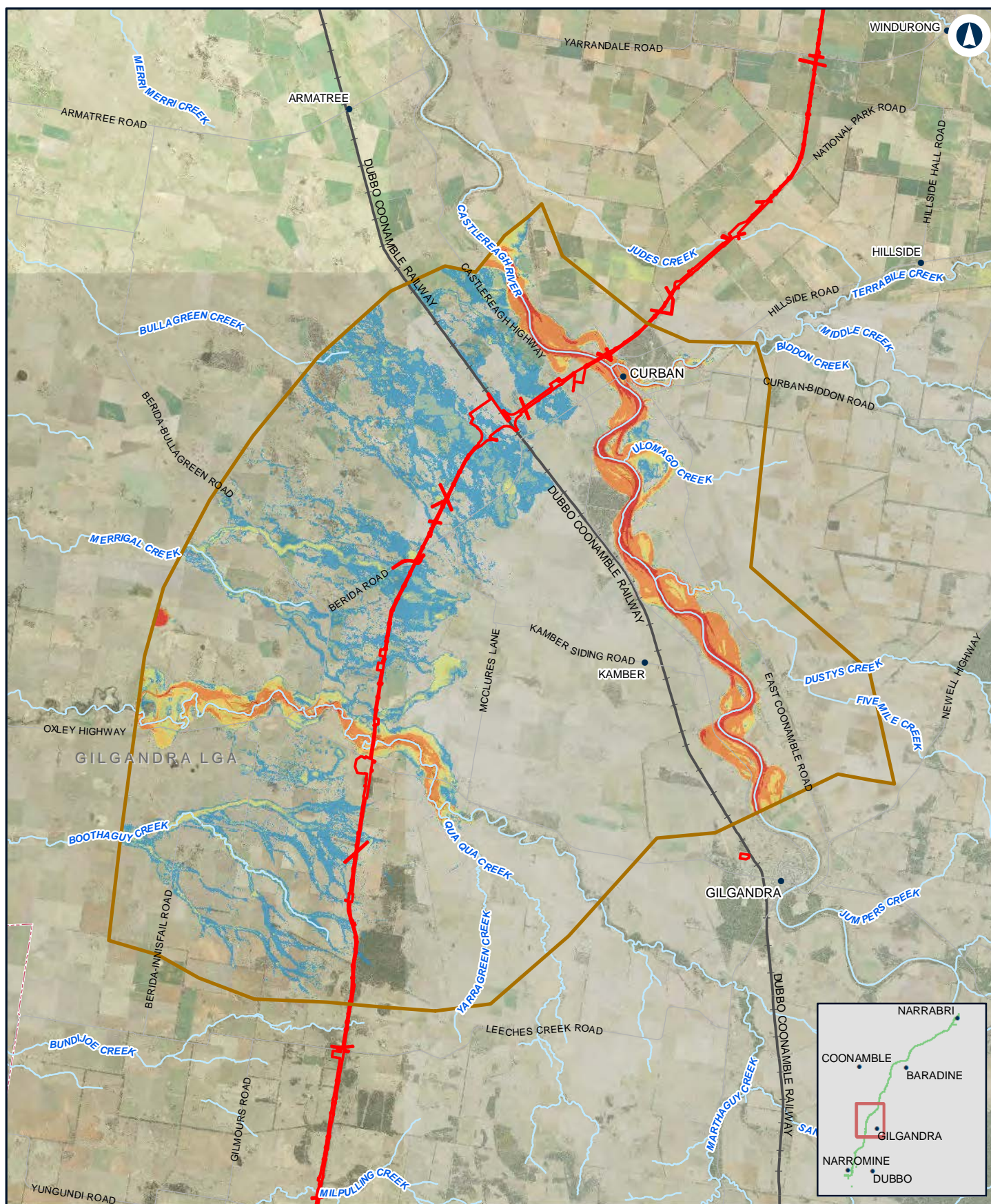
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

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

0 2.5 5
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:200,000

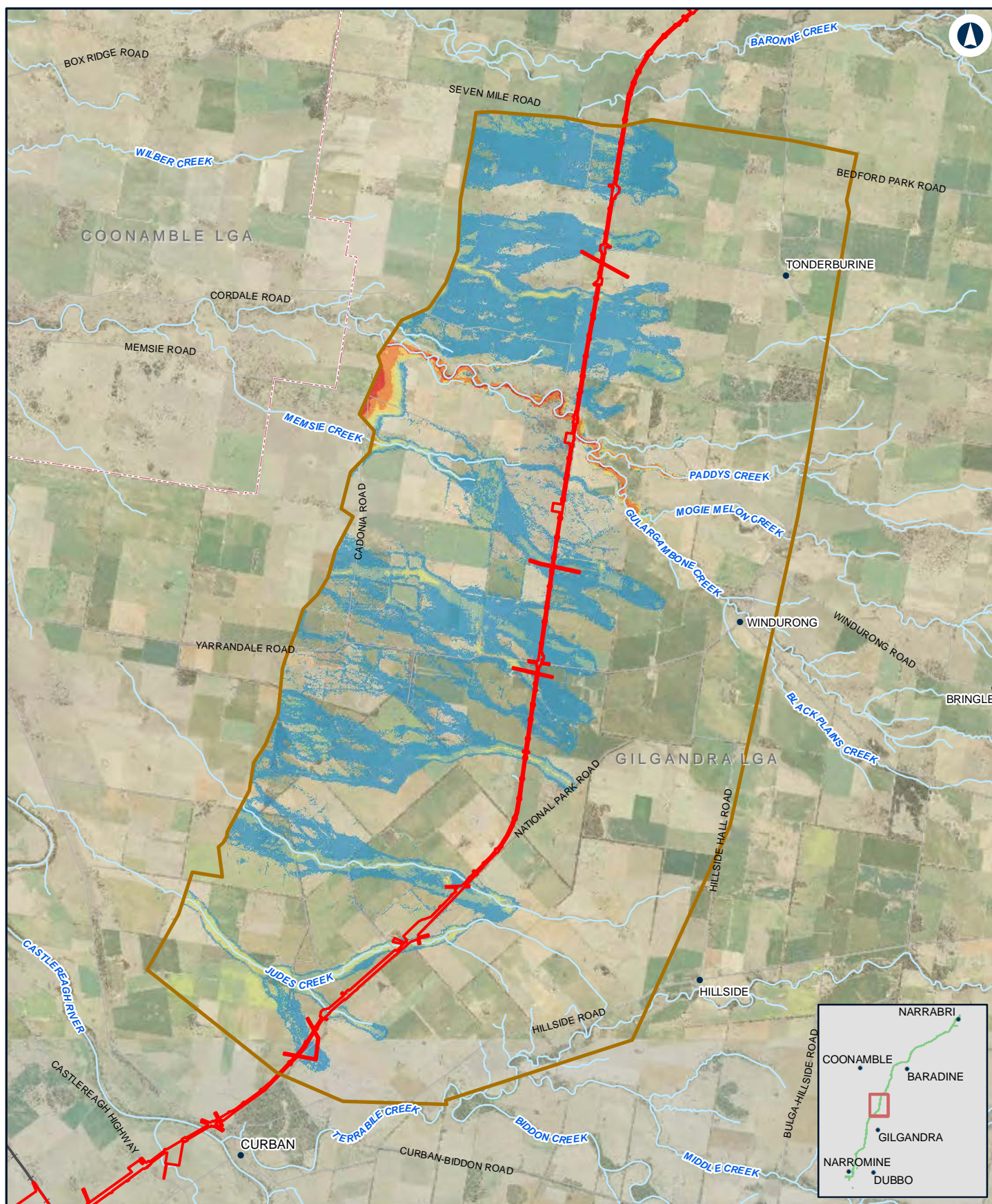
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

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

0 1.5 3
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:130,000

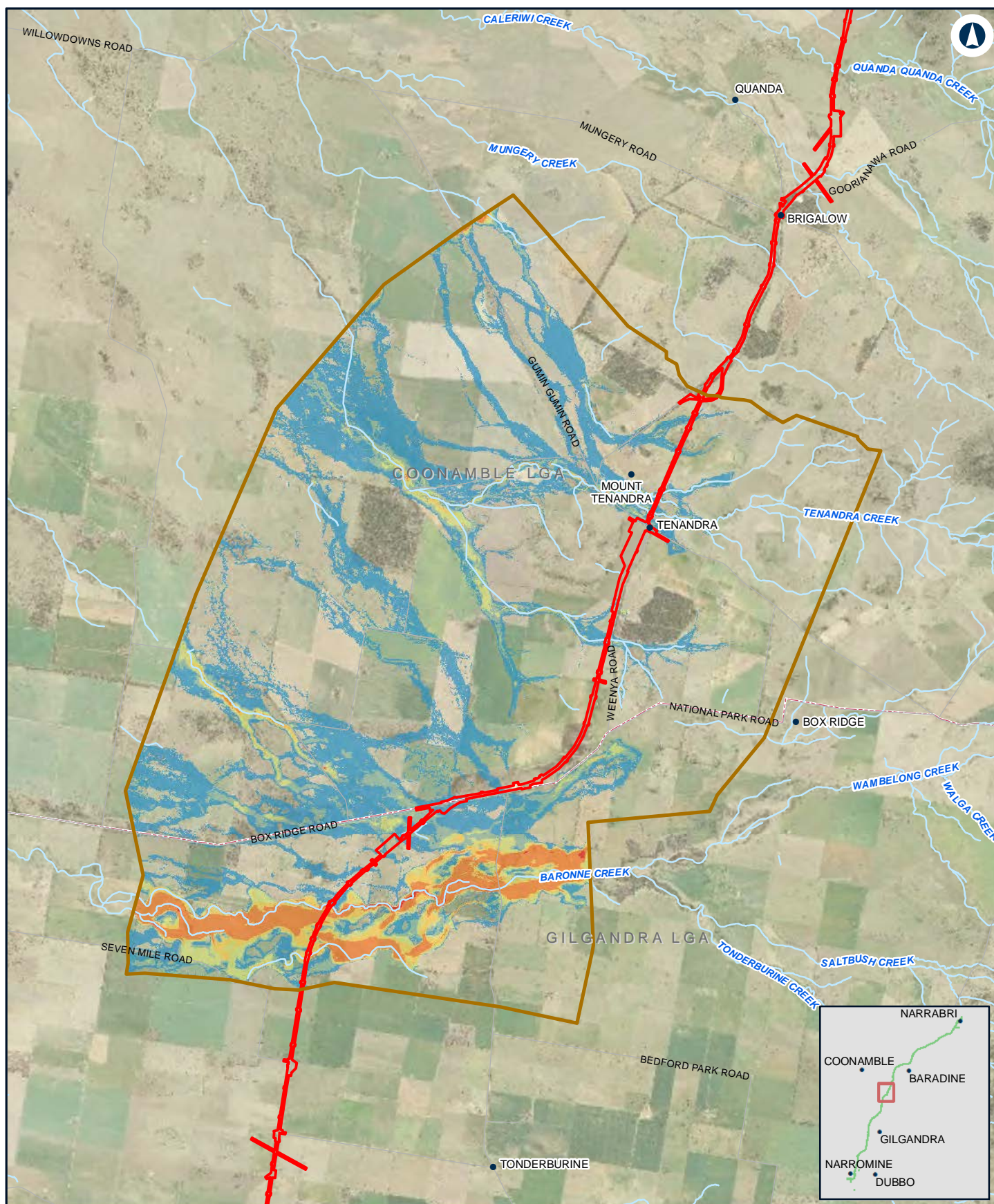
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

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

0 1.5 3 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020
Author: JacobsGHD

Paper: A4
Scale: 1:110,000

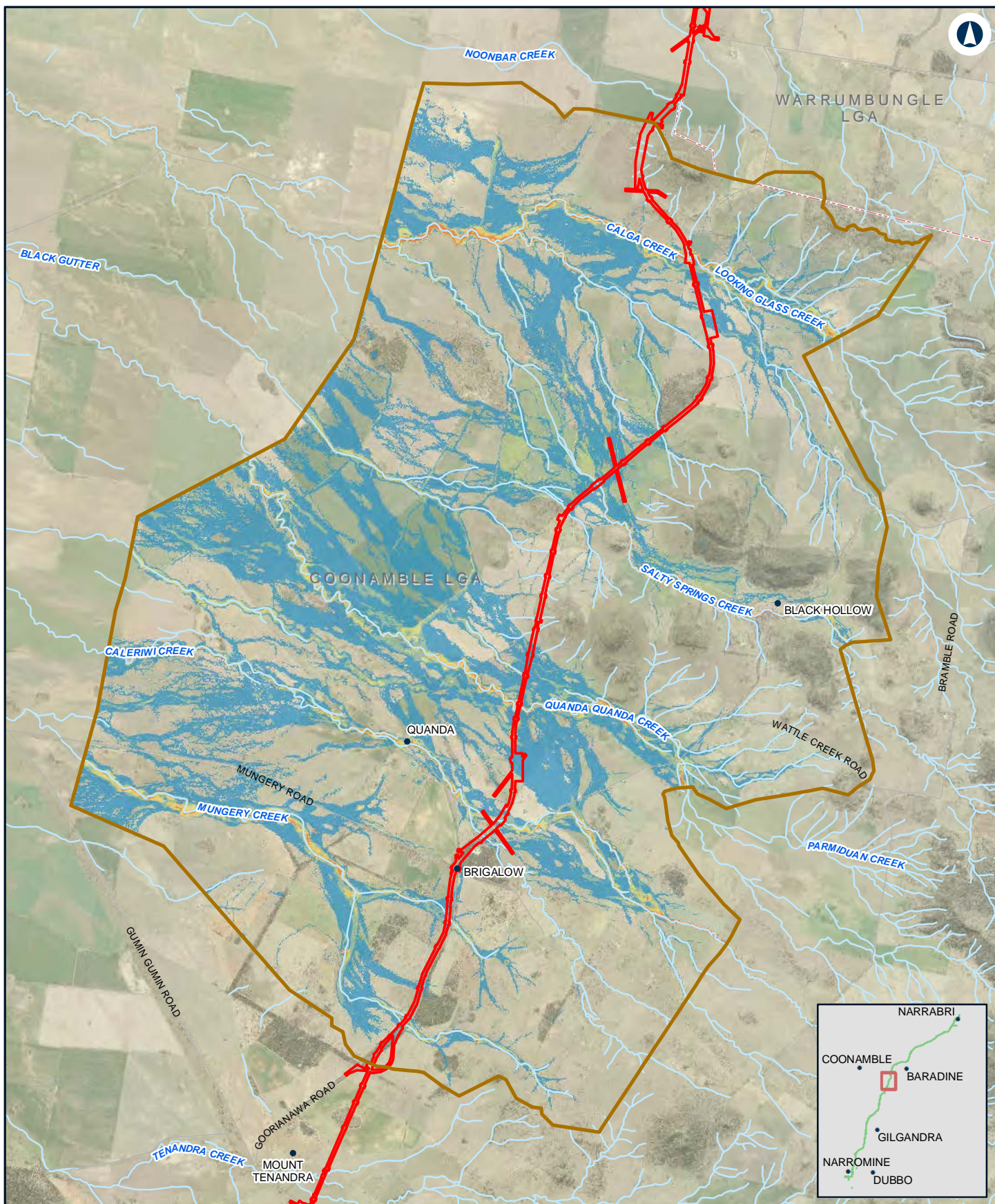
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

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 - N2N8

Appendix D - Figure 4.5g

0 1 2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020
Author: JacobsGHD

Paper: A4
Scale: 1:100,000

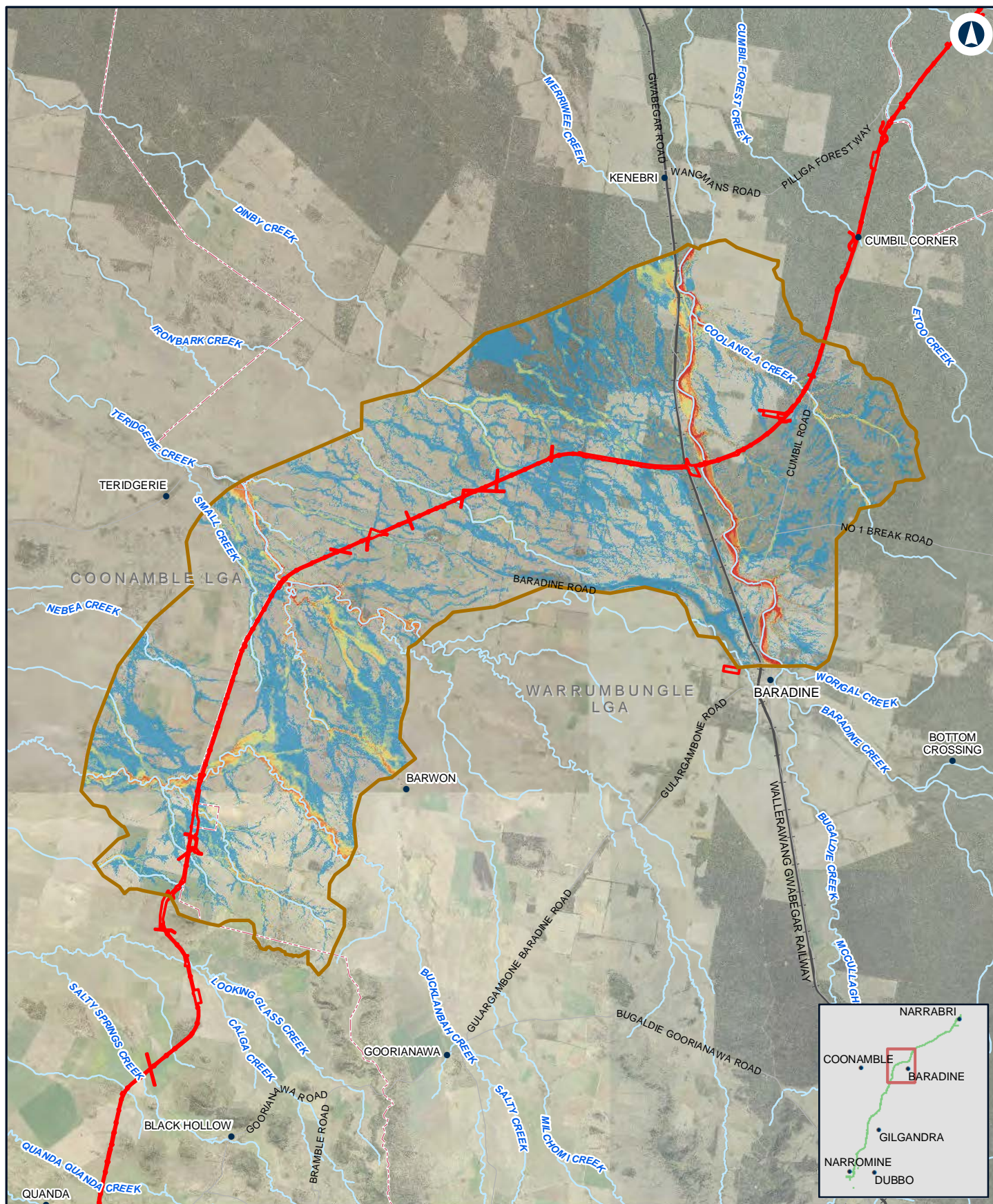
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

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 - N2N7

Appendix D - Figure 4.5h

0 2.5 5 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:200,000

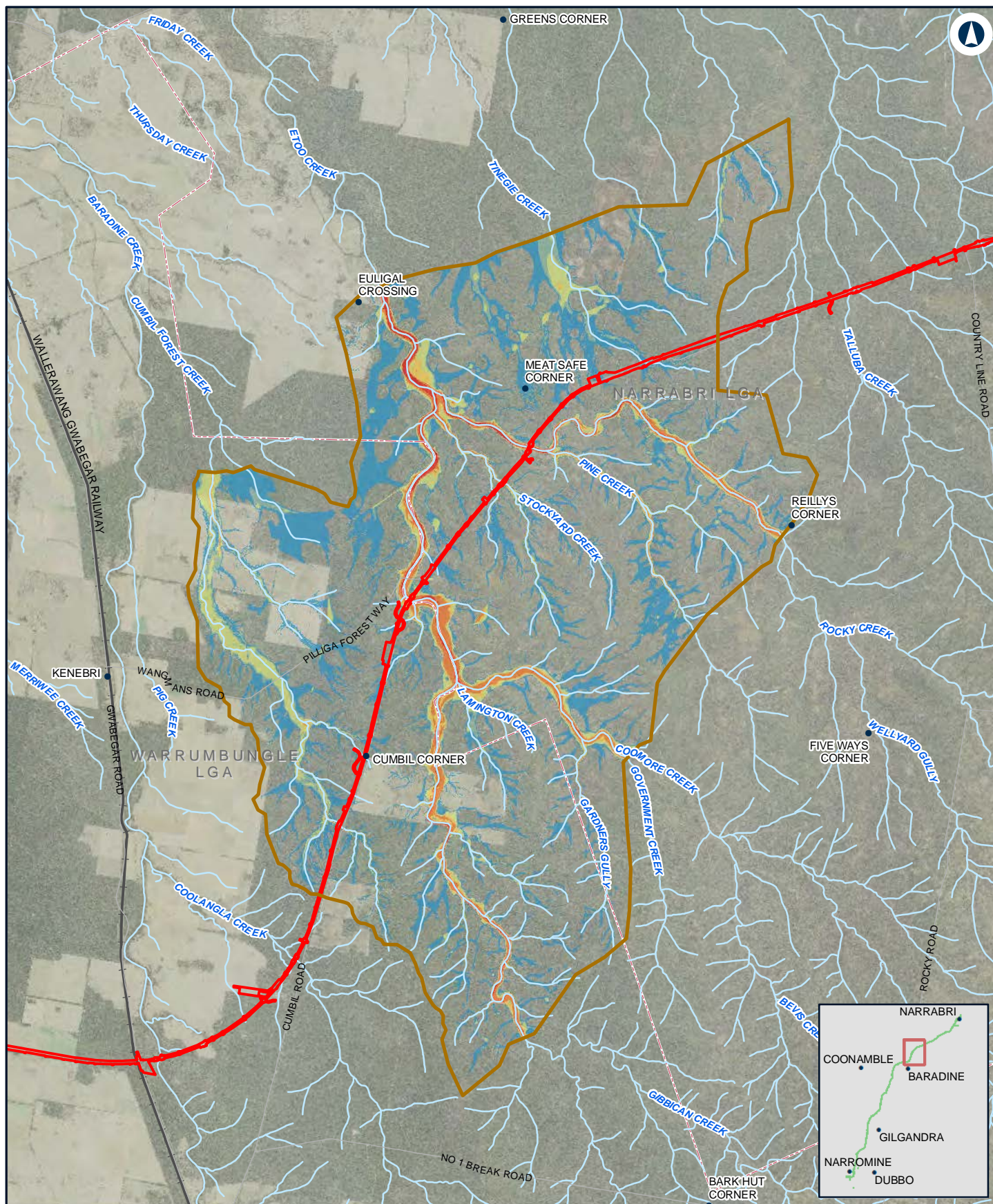
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

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 - N2N6

Appendix D - Figure 4.5i

0 2 4 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:150,000

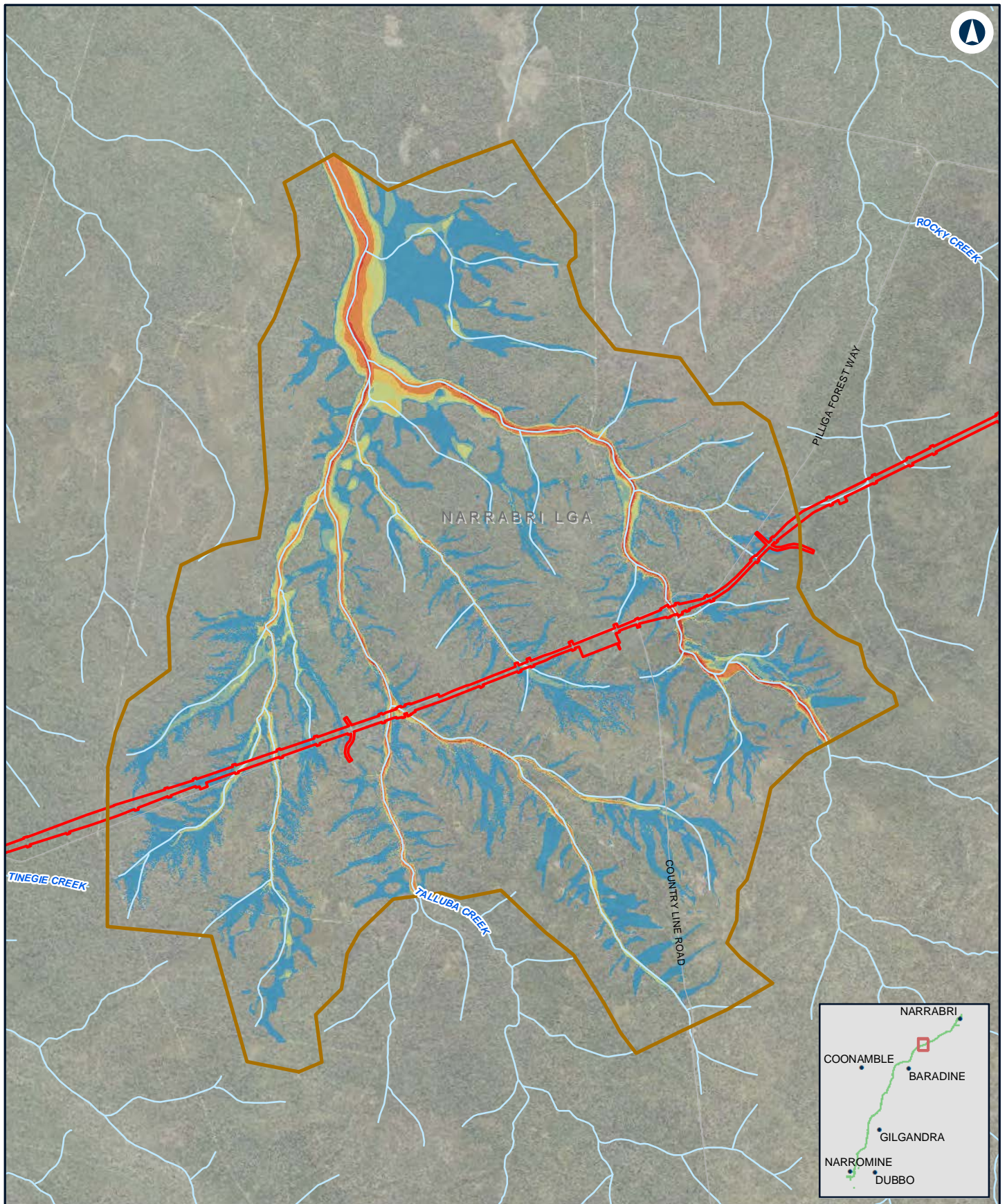
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- 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 - N2N5

Appendix D - Figure 4.5j

0 1 2 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020
Author: JacobsGHD

Paper: A4
Scale: 1:70,000

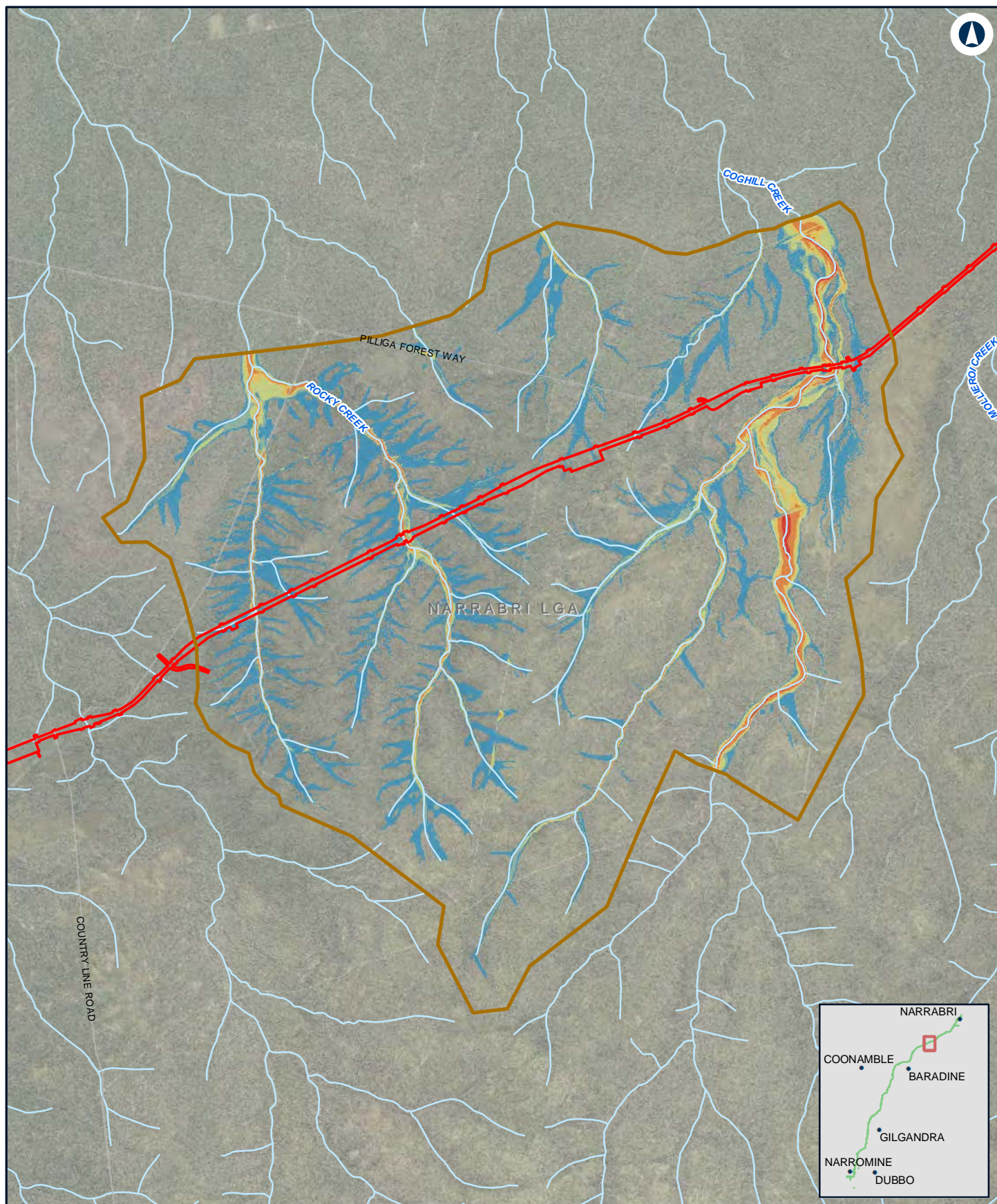
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
- Generally safe for vehicles, people and buildings
- Unsafe for small vehicles
- 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

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

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

Appendix D - Figure 4.5k

0 1 2 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:80,000

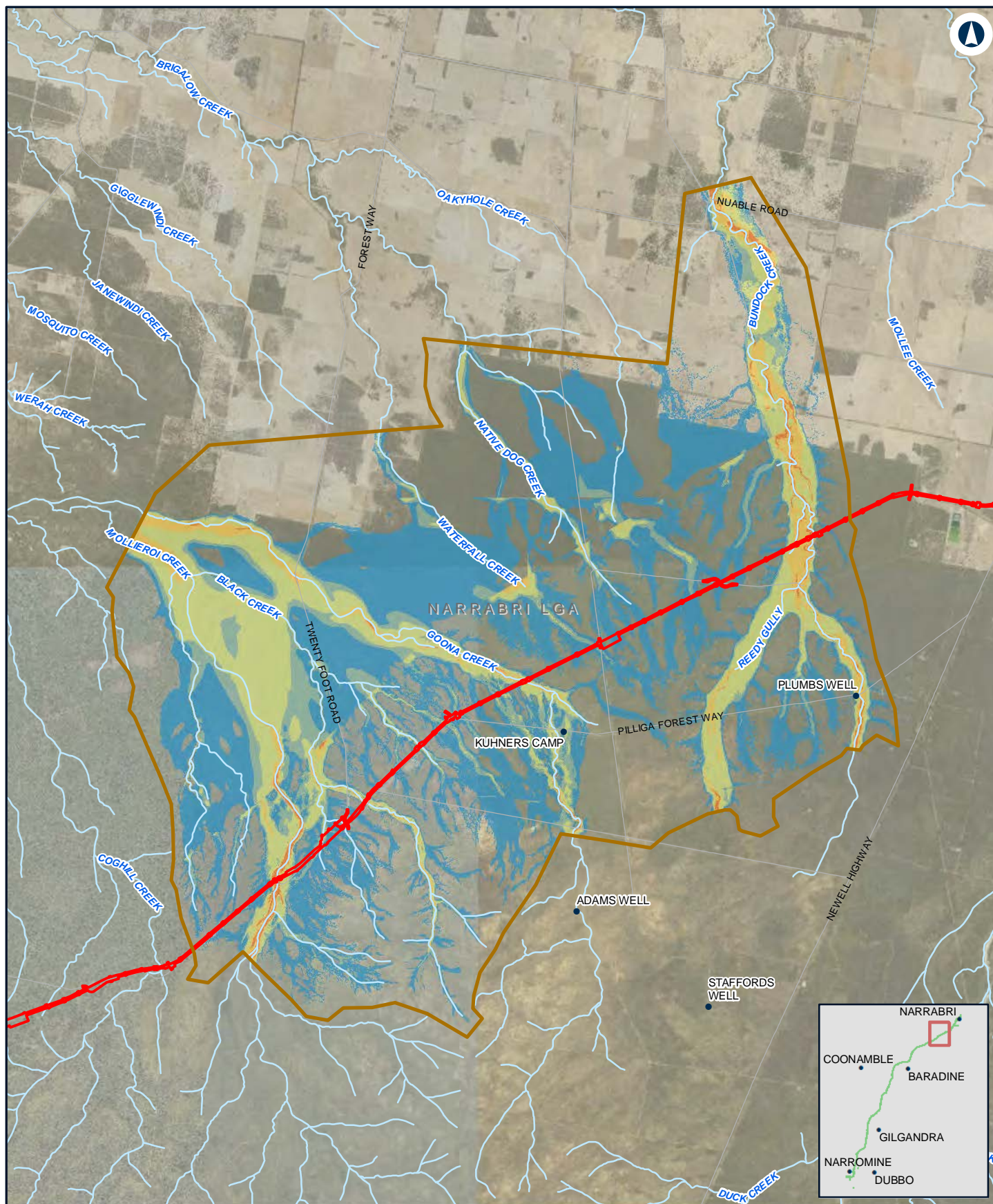
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

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

INLAND RAIL **ARTC**

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0 1.5 3 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Author: JacobsGHD

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

Paper: A4

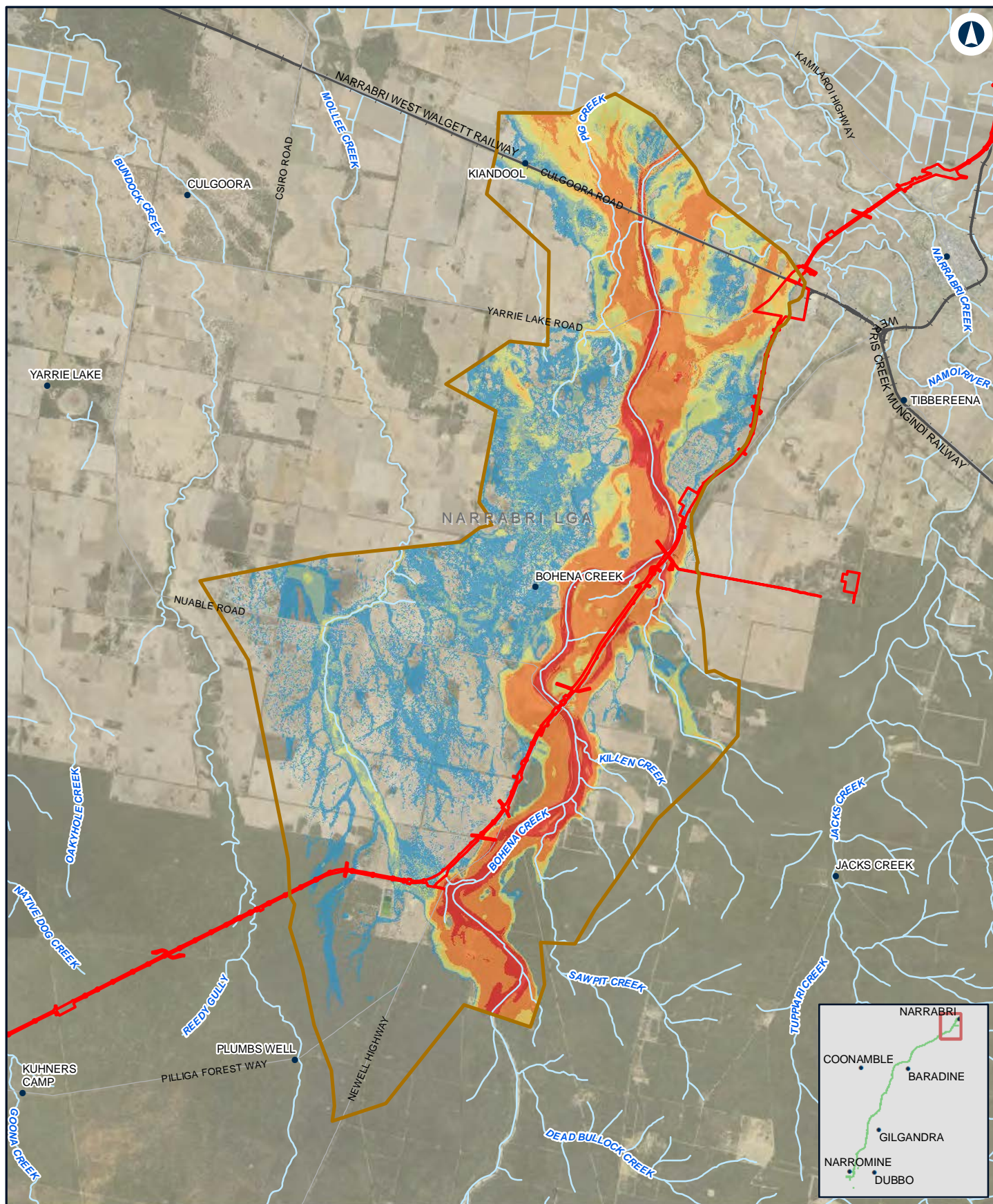
Scale: 1:140,000

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

INLAND RAIL **ARTC**

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Narromine to Narrabri

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

Appendix D - Figure 4.5m

0 2 4 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:150,000

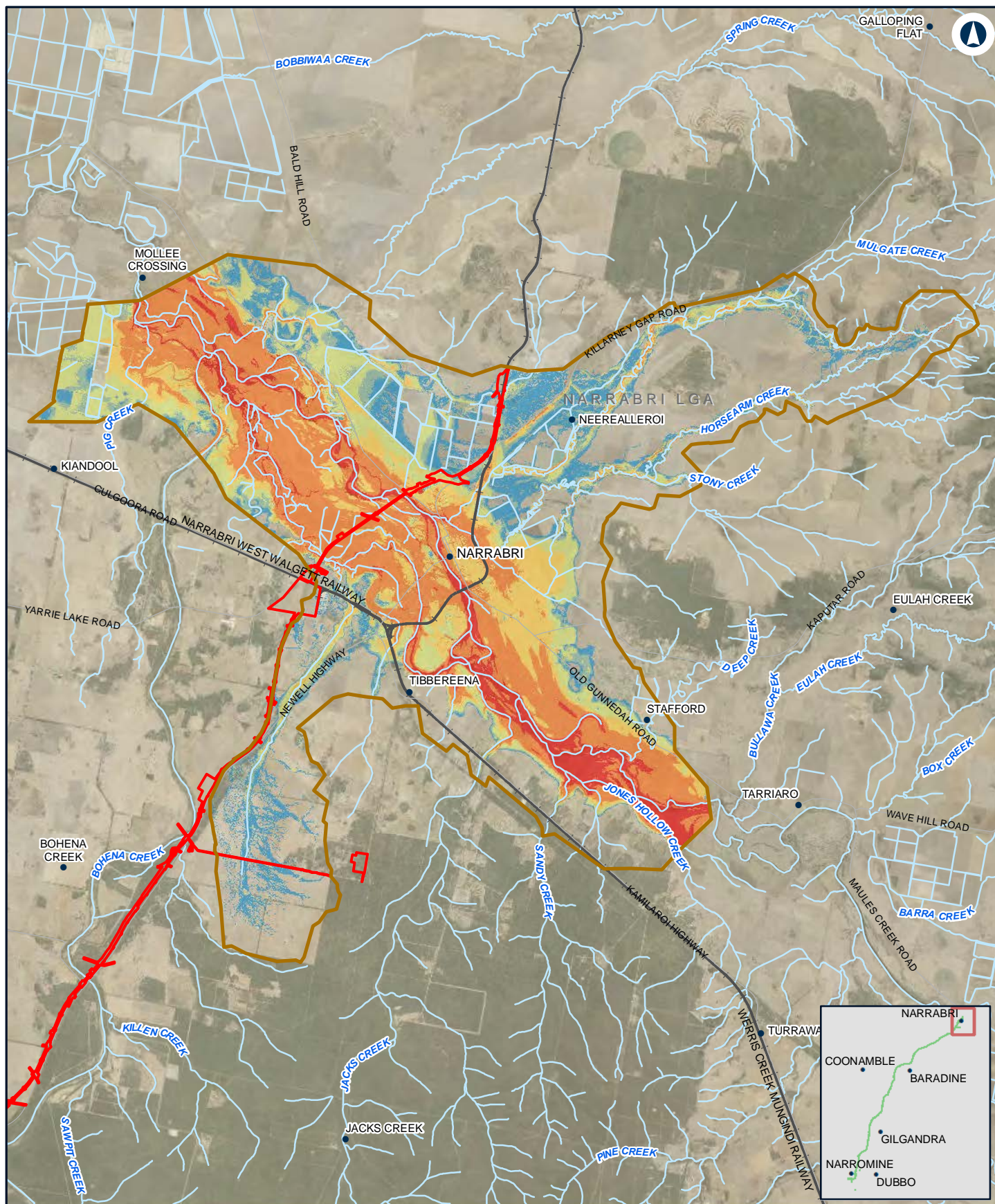
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- 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 - Narrabri

Appendix D - Figure 4.5n

0 2 4
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:160,000

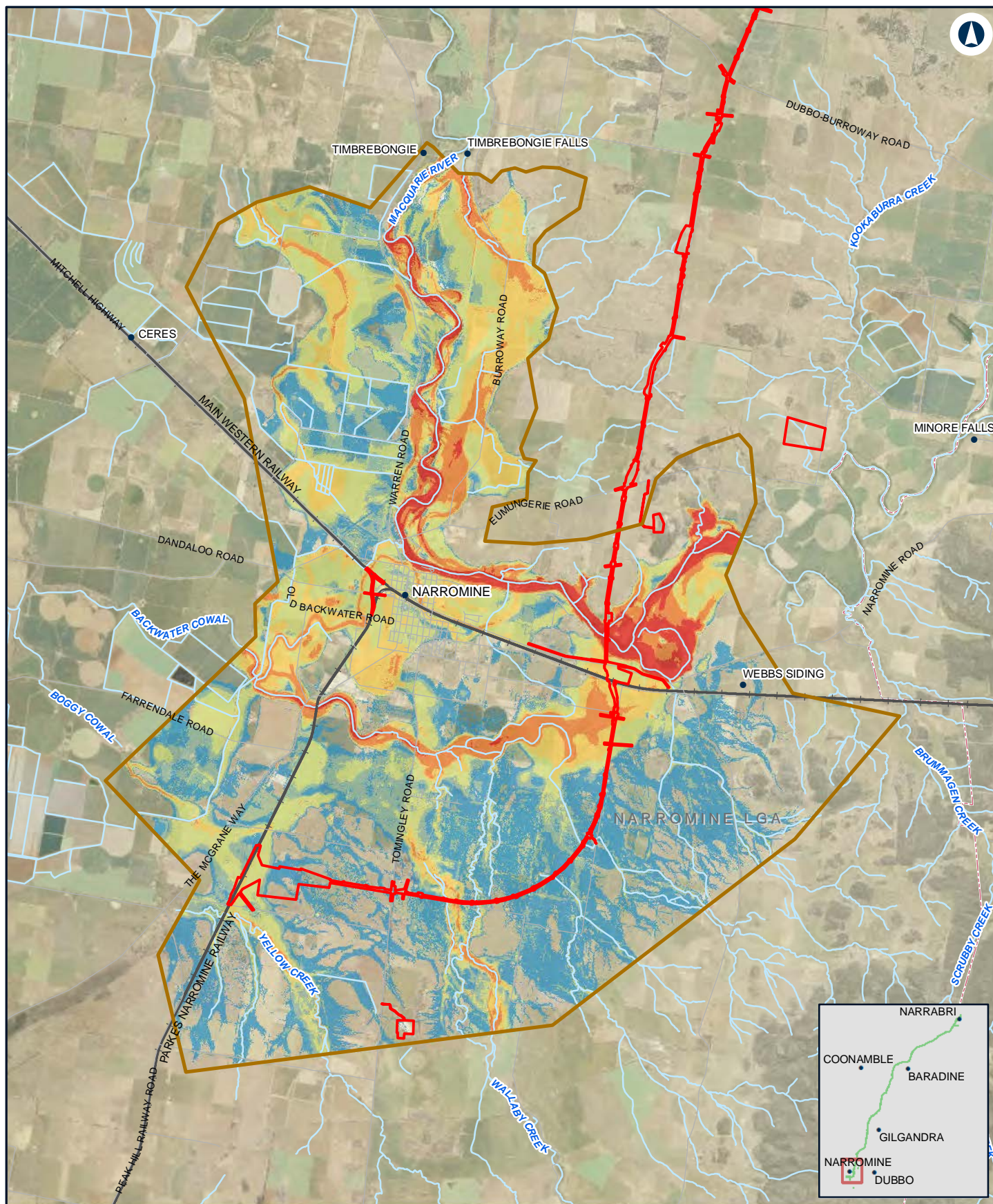
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

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 vehicles and people
- Unsafe for all people and all vehicles. Buildings require special engineering design and construction
- Unconditionally dangerous

INLAND RAIL **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 flood hazard - 0.5% AEP - NFM

Appendix D - Figure 4.6a

0 1.5 3 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:140,000

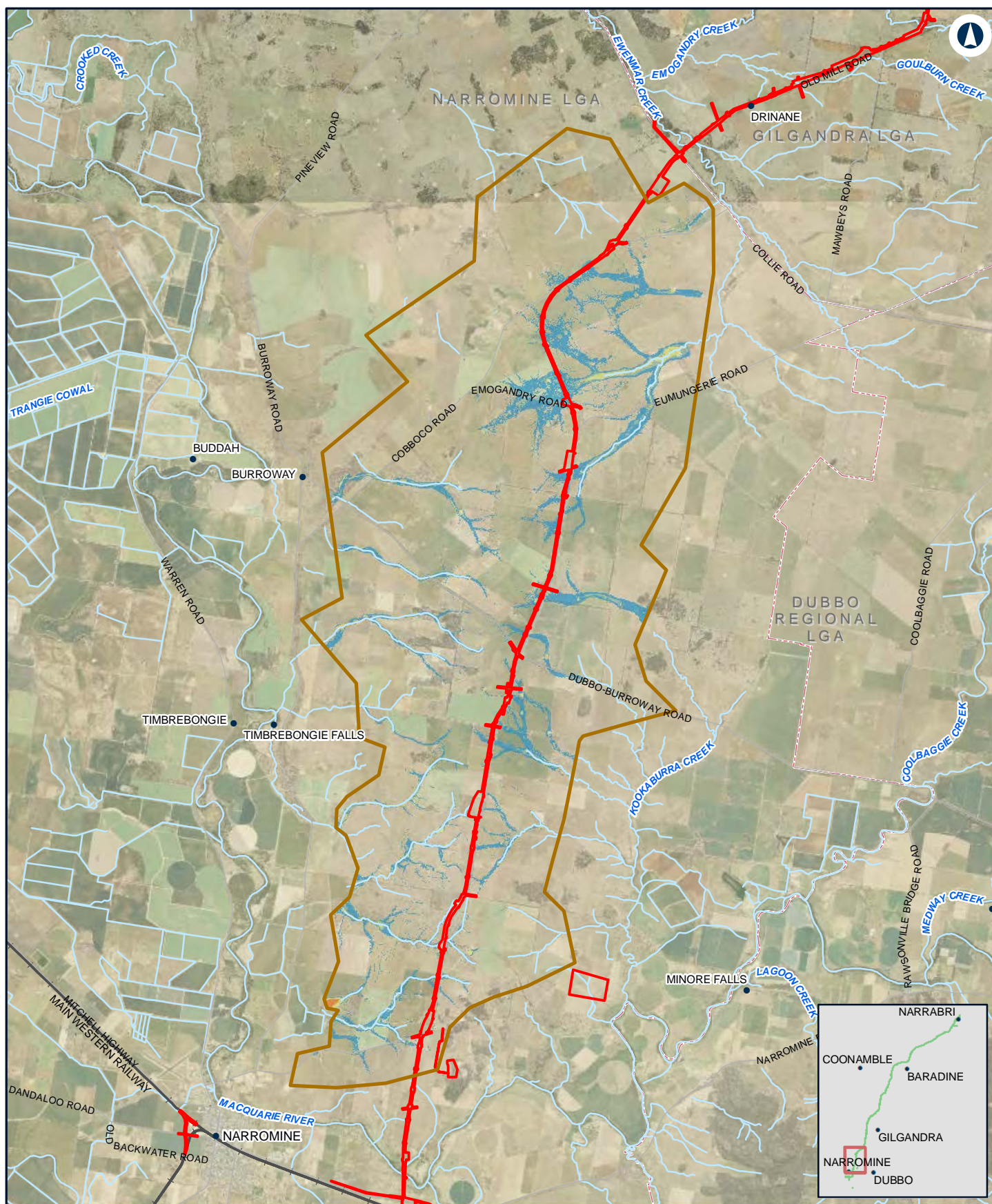
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

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0 2 4 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:150,000

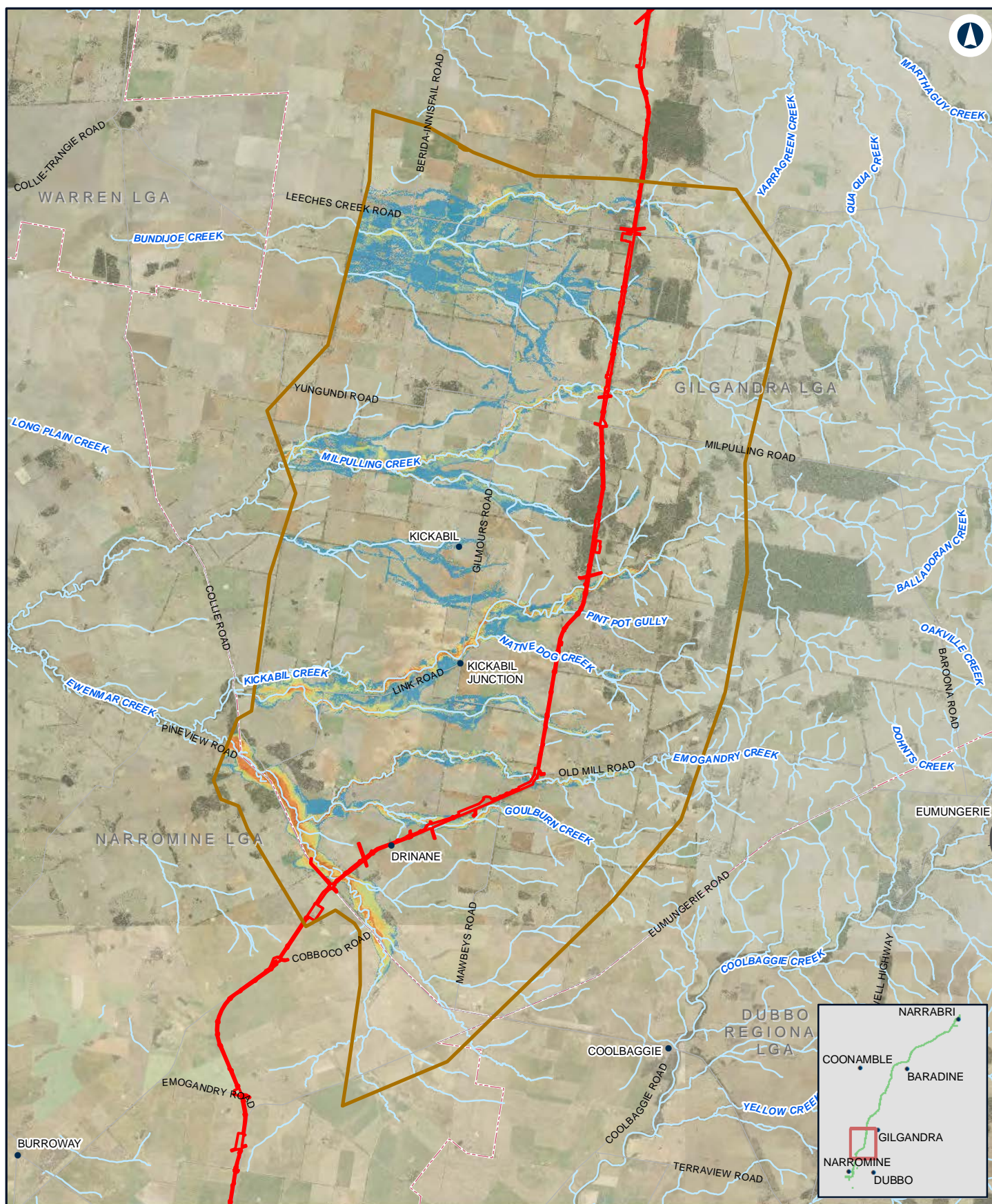
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

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NARROMINE TO NARRABRI

Existing flood hazard - 0.5% AEP - N2N13

Appendix D - Figure 4.6c

0 2.5 5
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:180,000

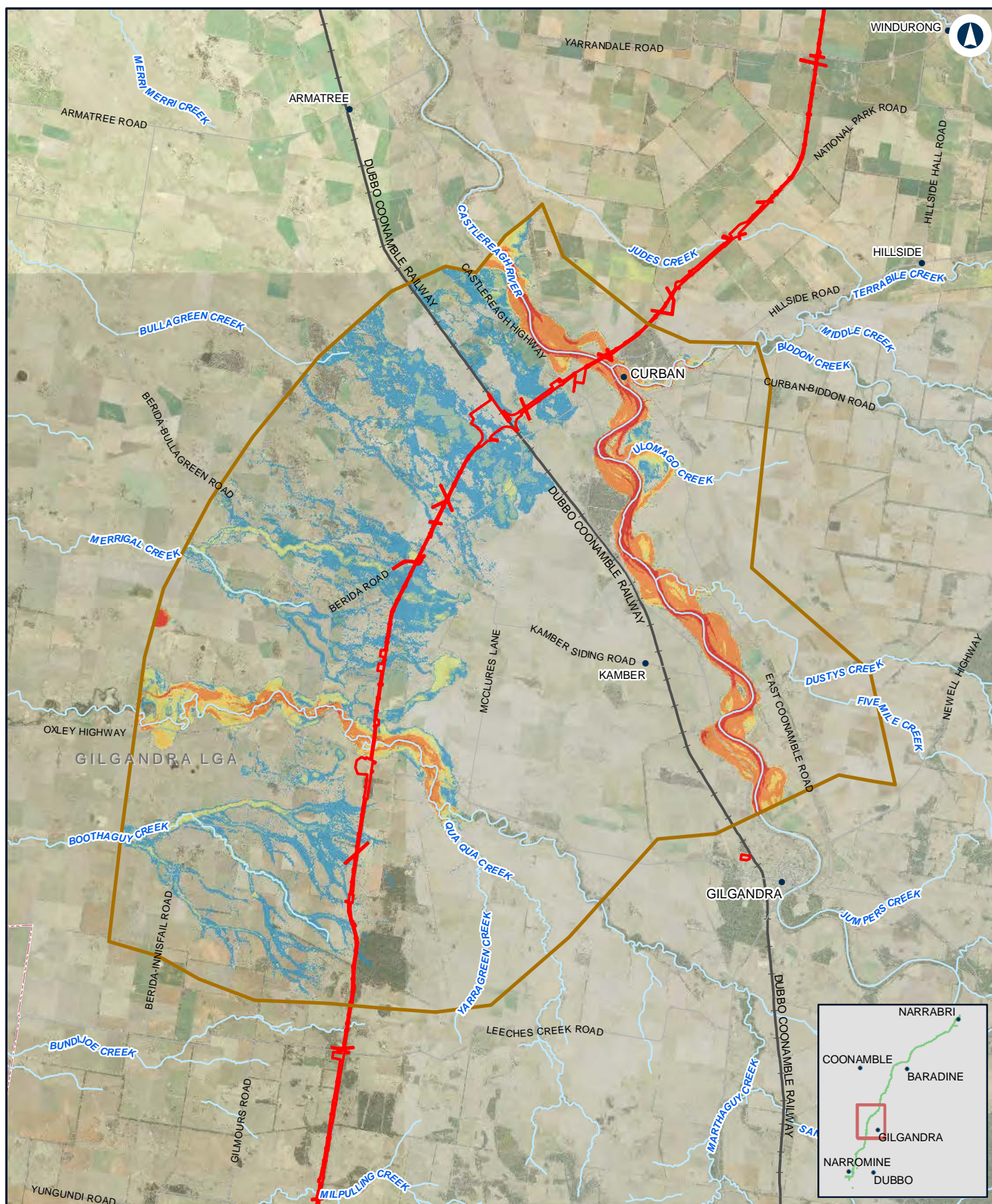
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

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NARROMINE TO NARRABRI

Existing flood hazard - 0.5% AEP - N2N11N12

Appendix D - Figure 4.6d

0 2.5 5
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:200,000

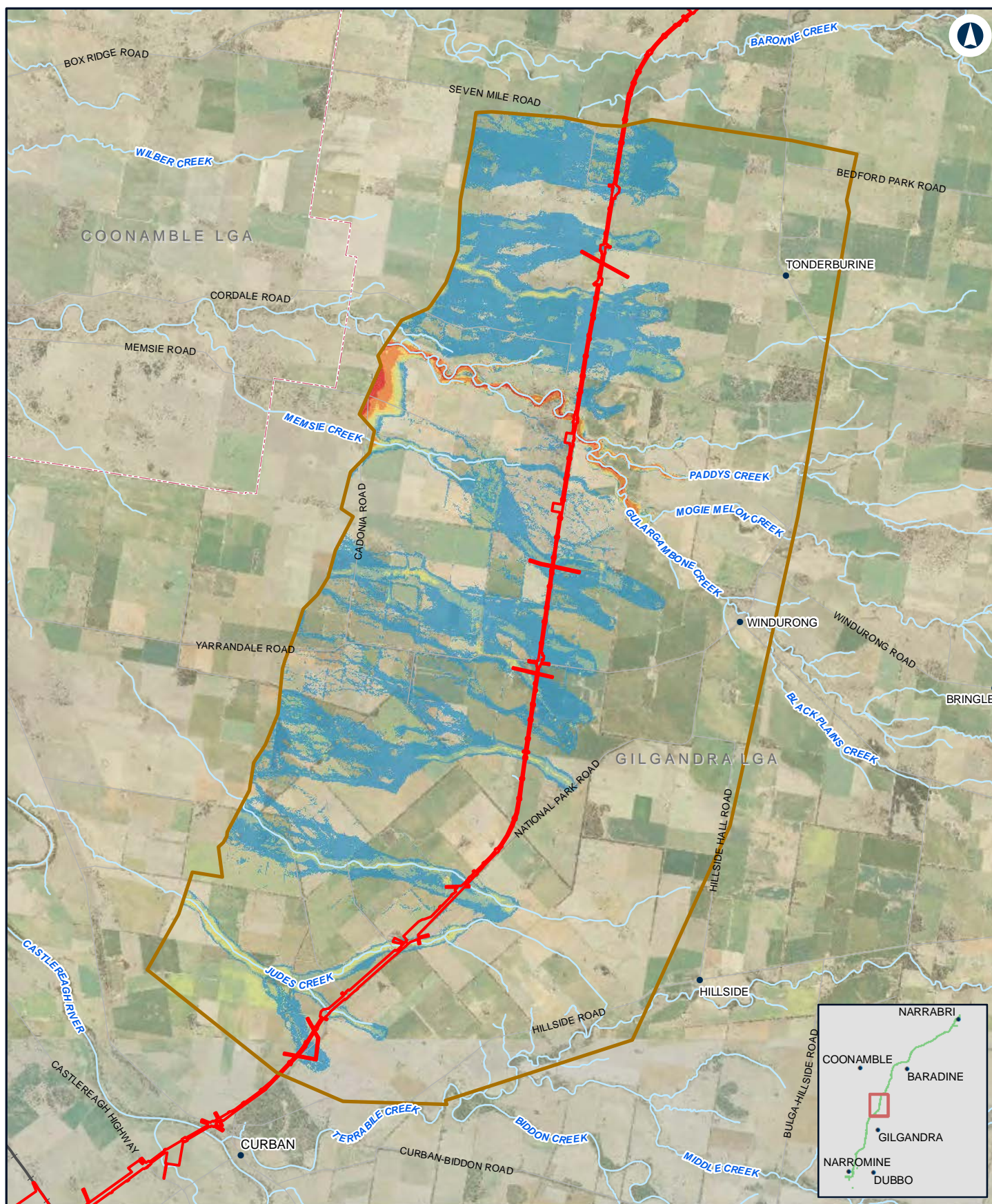
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

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NARROMINE TO NARRABRI

Existing flood hazard - 0.5% AEP - N2N10

Appendix D - Figure 4.6e

0 1.5 3
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020
Author: JacobsGHD

Paper: A4
Scale: 1:130,000

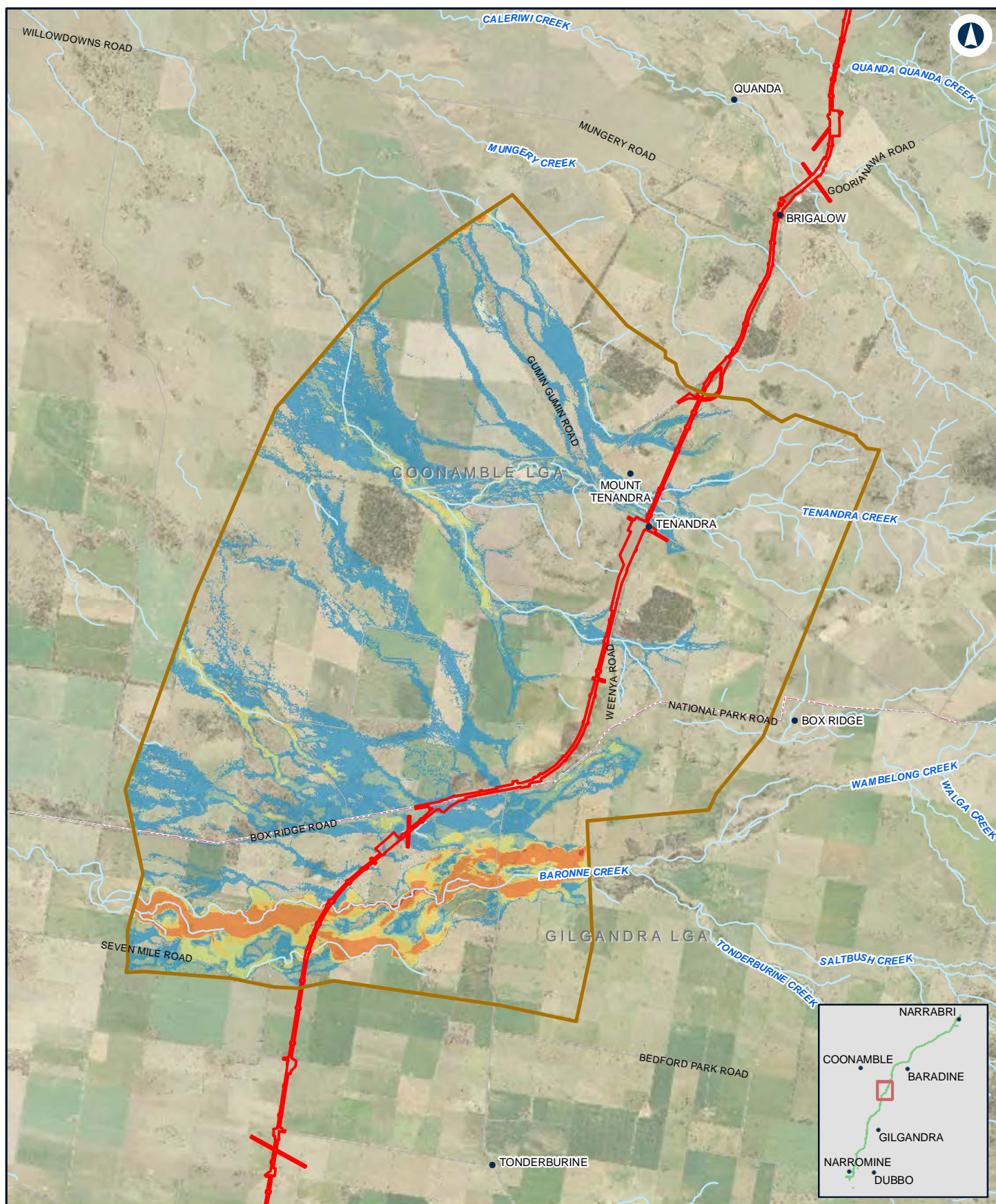
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

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NARROMINE TO NARRABRI

Existing flood hazard - 0.5% AEP - N2N9

Appendix D - Figure 4.6f

0 1.5 3
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020
Author: JacobsGHD

Paper: A4
Scale: 1:110,000

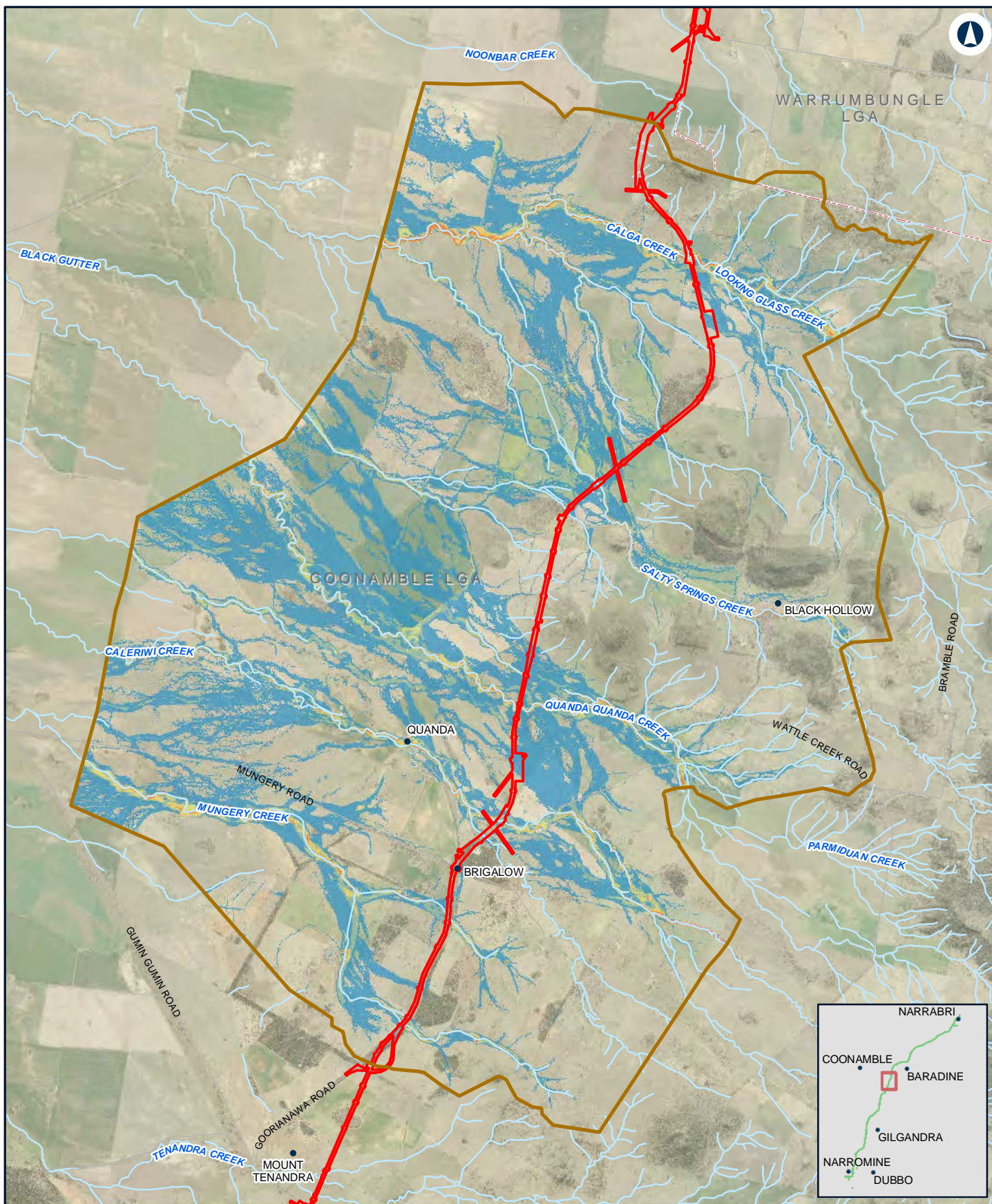
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

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NARROMINE TO NARRABRI

Existing flood hazard - 0.5% AEP - N2N8

Appendix D - Figure 4.6g

0 1 2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020
Author: JacobsGHD

Paper: A4
Scale: 1:100,000

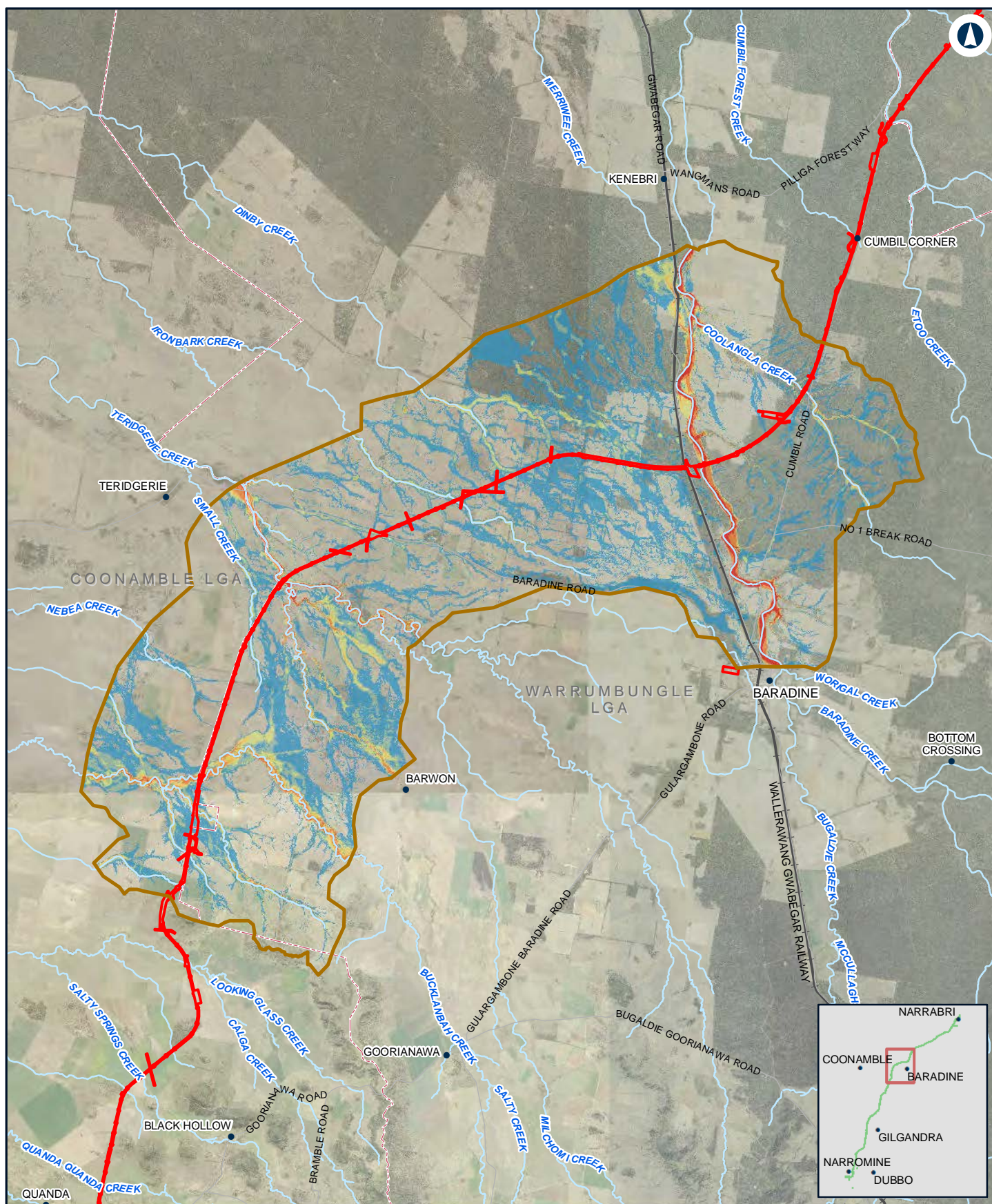
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

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NARROMINE TO NARRABRI

Existing flood hazard - 0.5% AEP - N2N7

Appendix D - Figure 4.6h

0 2.5 5
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:200,000

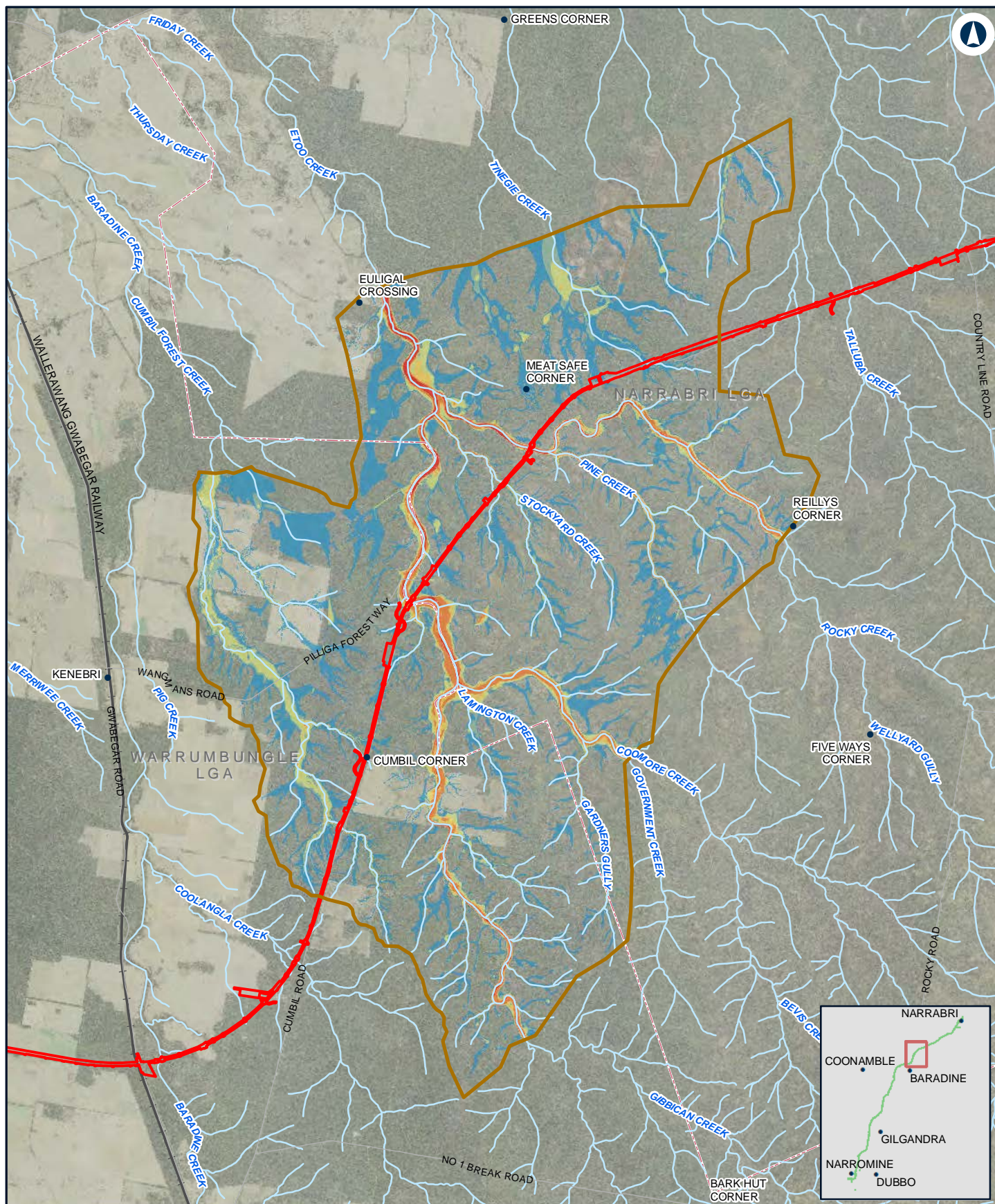
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

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NARROMINE TO NARRABRI

Existing flood hazard - 0.5% AEP - N2N6

Appendix D - Figure 4.6i

0 2 4 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:150,000

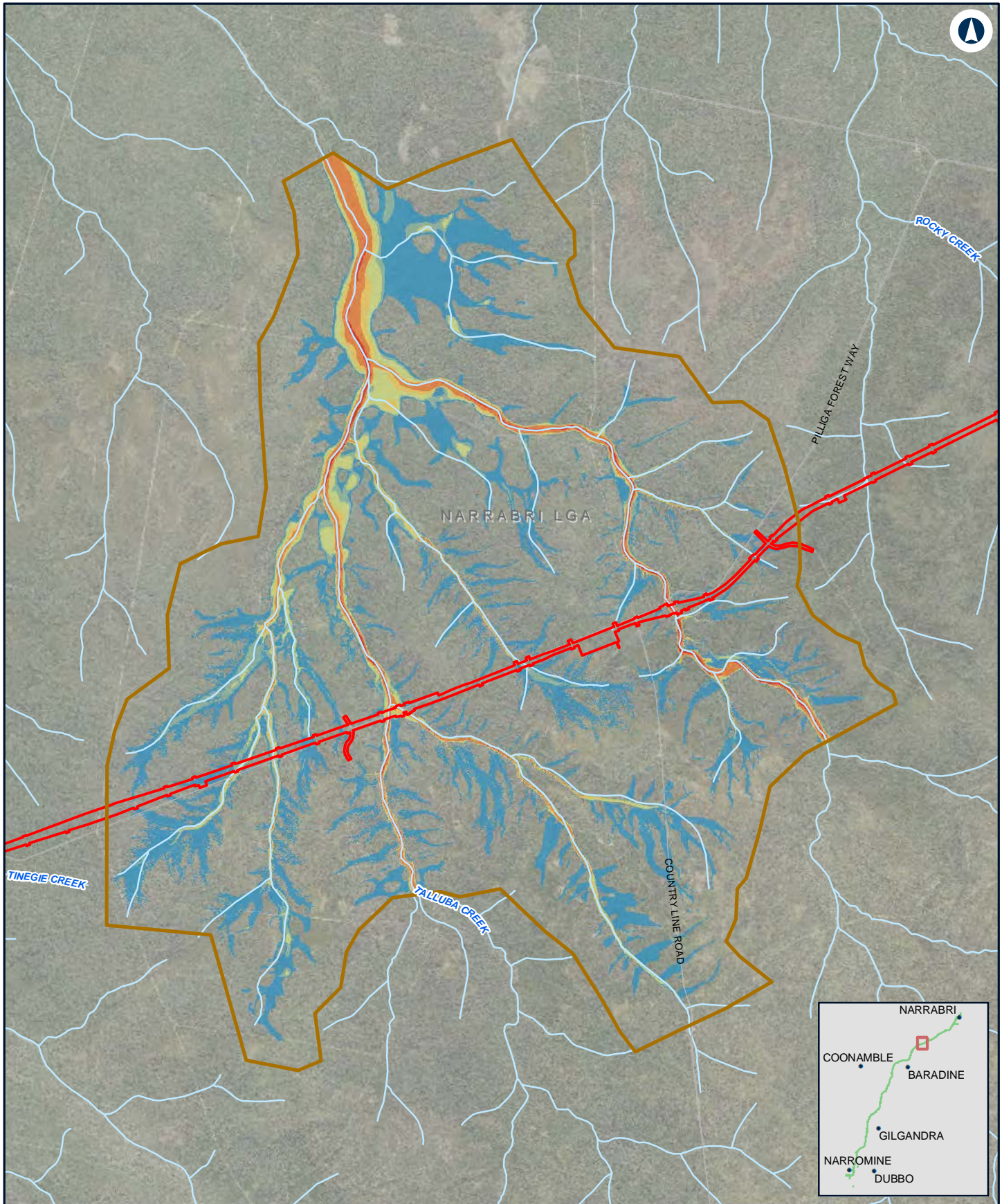
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

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INLAND RAIL **ARTC**

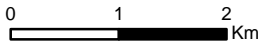
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NARROMINE TO NARRABRI

Existing flood hazard - 0.5% AEP - N2N5

Appendix D - Figure 4.6j



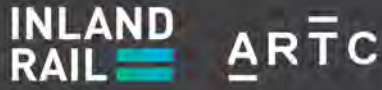
Coordinate System: GDA 1994 MGA Zone 55

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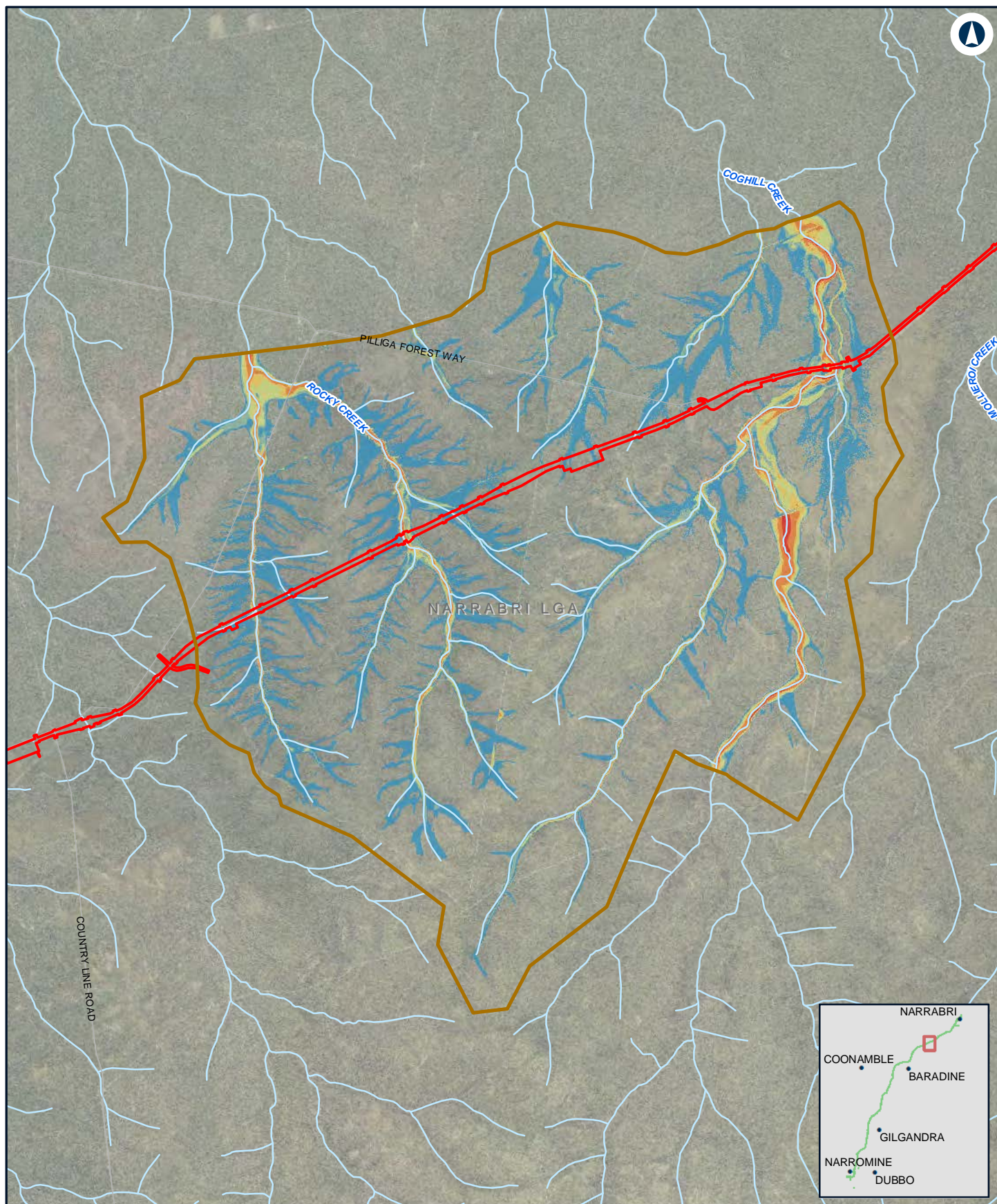
ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information contained within this GIS map.

Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:70,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- LEGEND**
- The proposal site
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NARROMINE TO NARRABRI

Existing flood hazard - 0.5% AEP - N2N4

Appendix D - Figure 4.6k

0 1 2 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:80,000

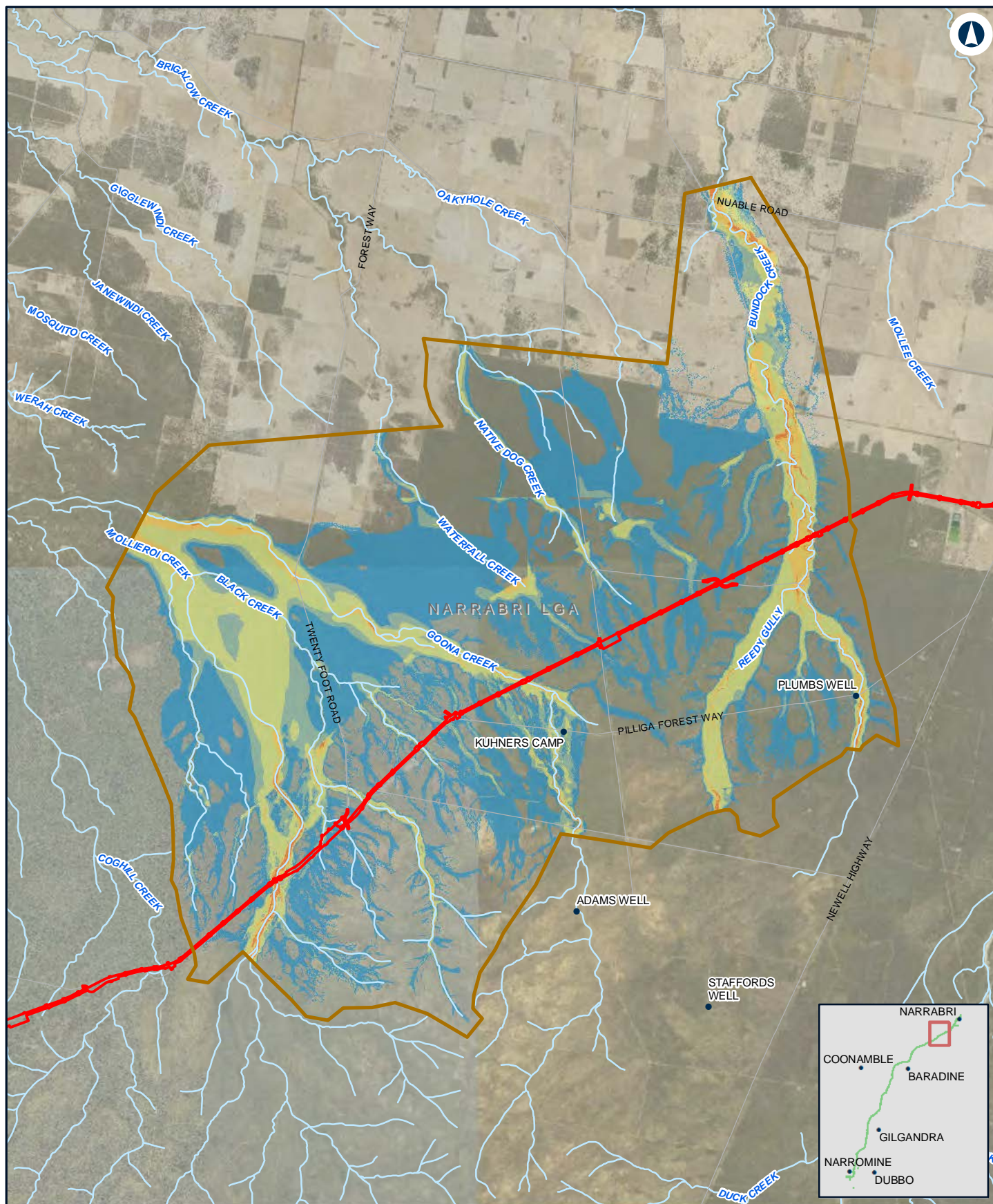
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

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INLAND RAIL **ARTC**

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Narromine to Narrabri

Existing flood hazard - 0.5% AEP - N2N23

Appendix D - Figure 4.6I

0 1.5 3 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:140,000

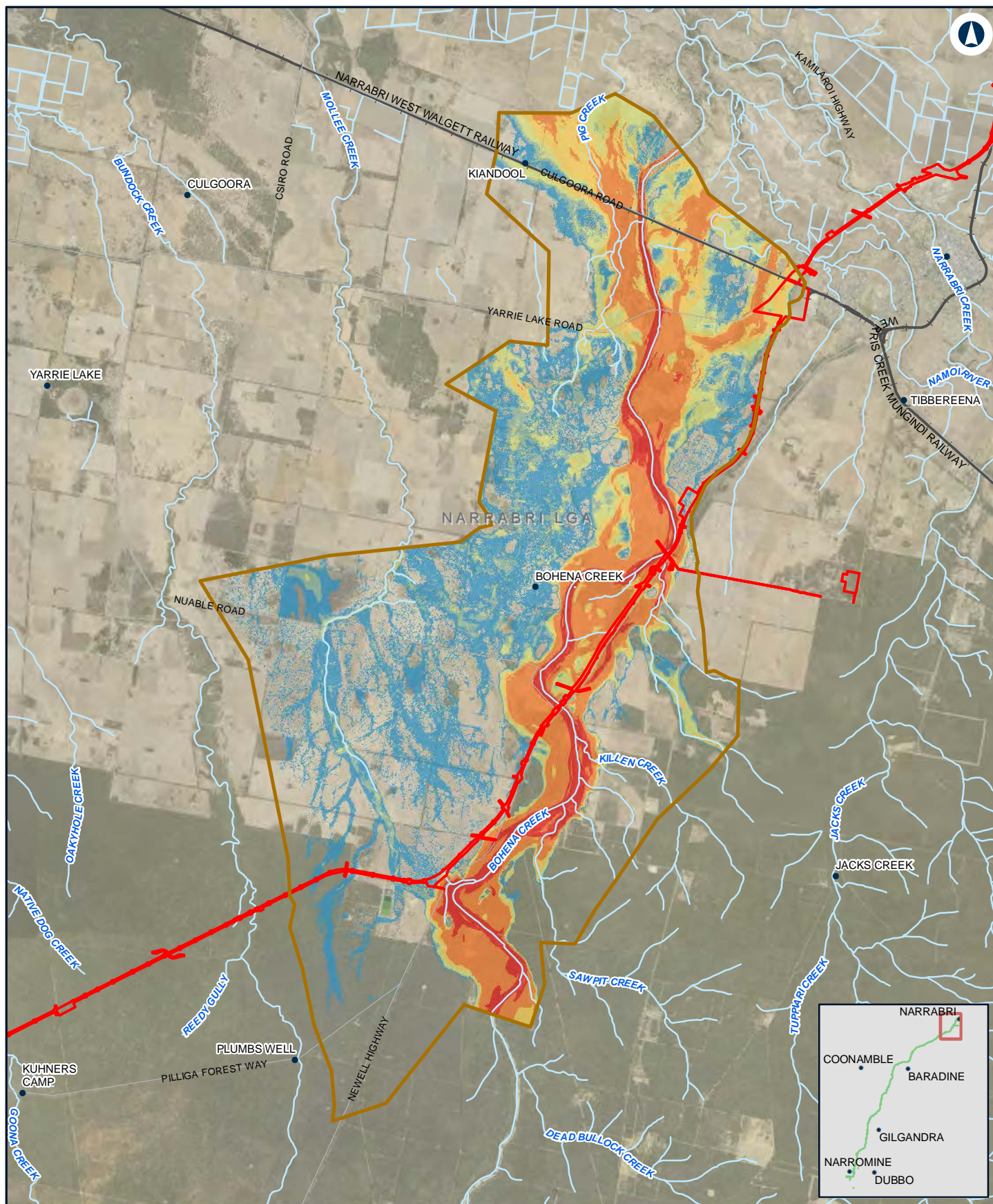
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

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NARROMINE TO NARRABRI

Existing flood hazard - 0.5% AEP - N2N1

Appendix D - Figure 4.6m

0 2 4
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:150,000

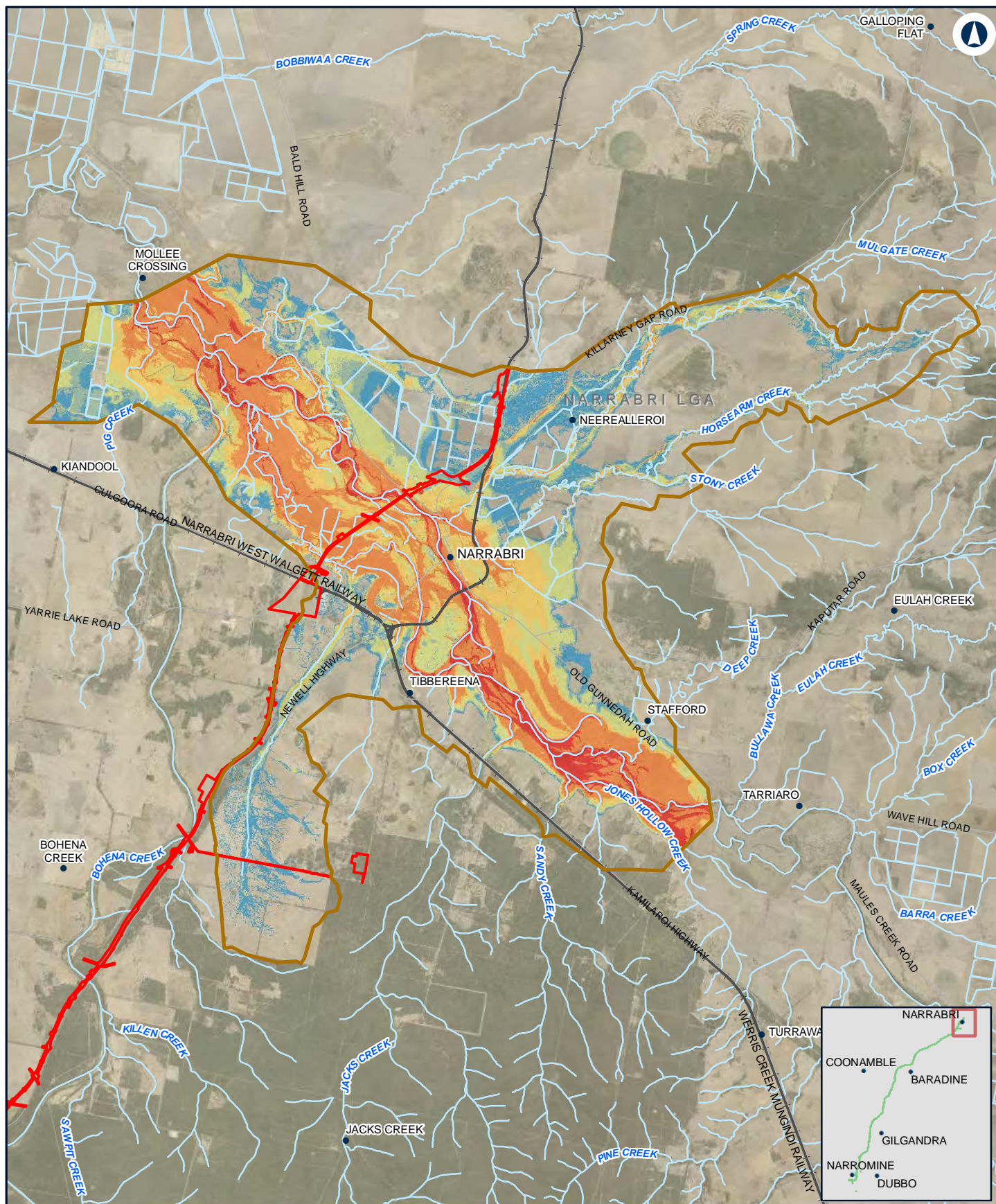
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

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Narromine to Narrabri

Existing flood hazard - 0.5% AEP - Narrabri

Appendix D - Figure 4.6n

0 2 4
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:160,000

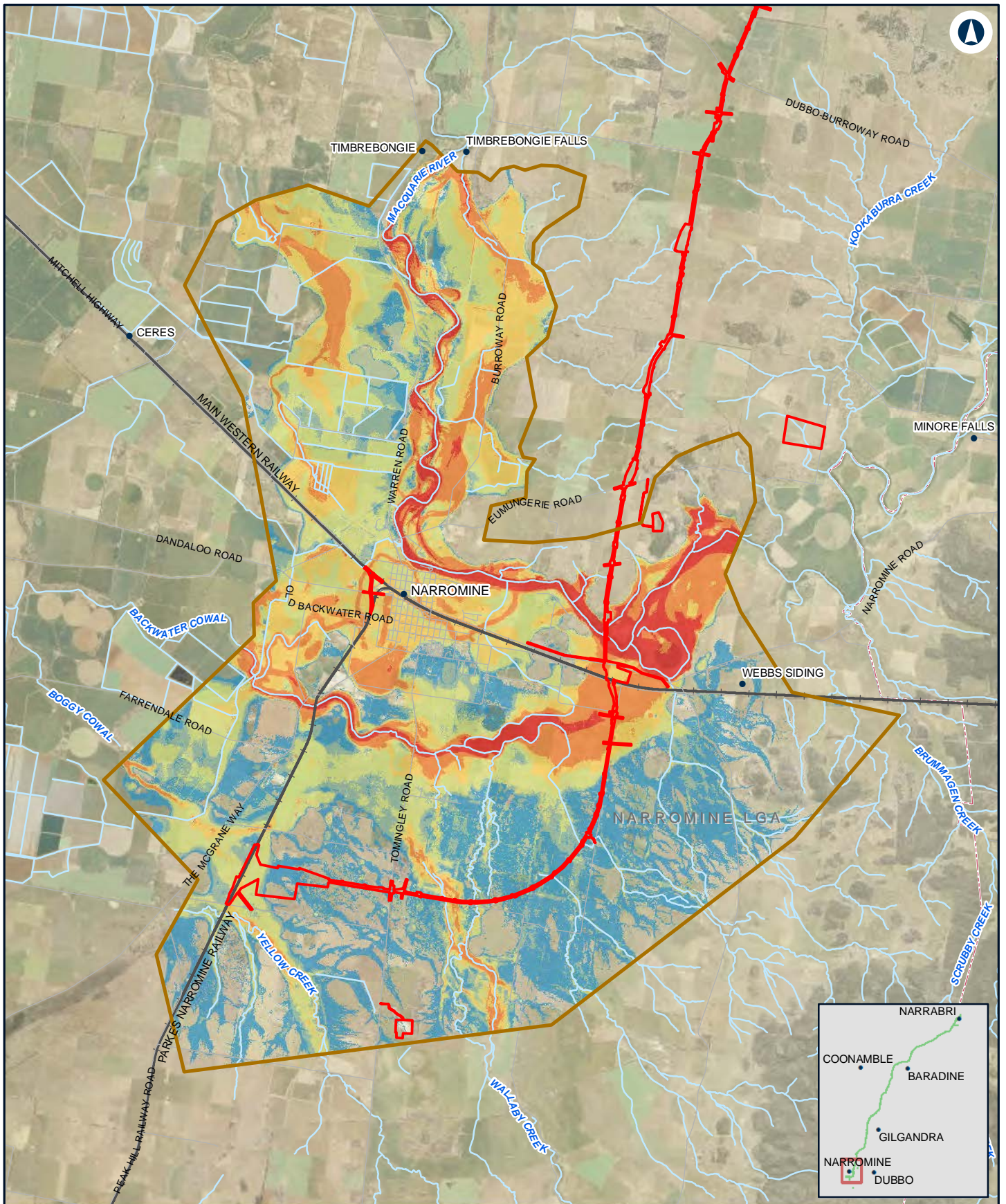
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

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NARROMINE TO NARRABRI

Existing flood hazard - 0.2% AEP - NFM

Appendix D - Figure 4.7a

0 1.5 3 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:140,000

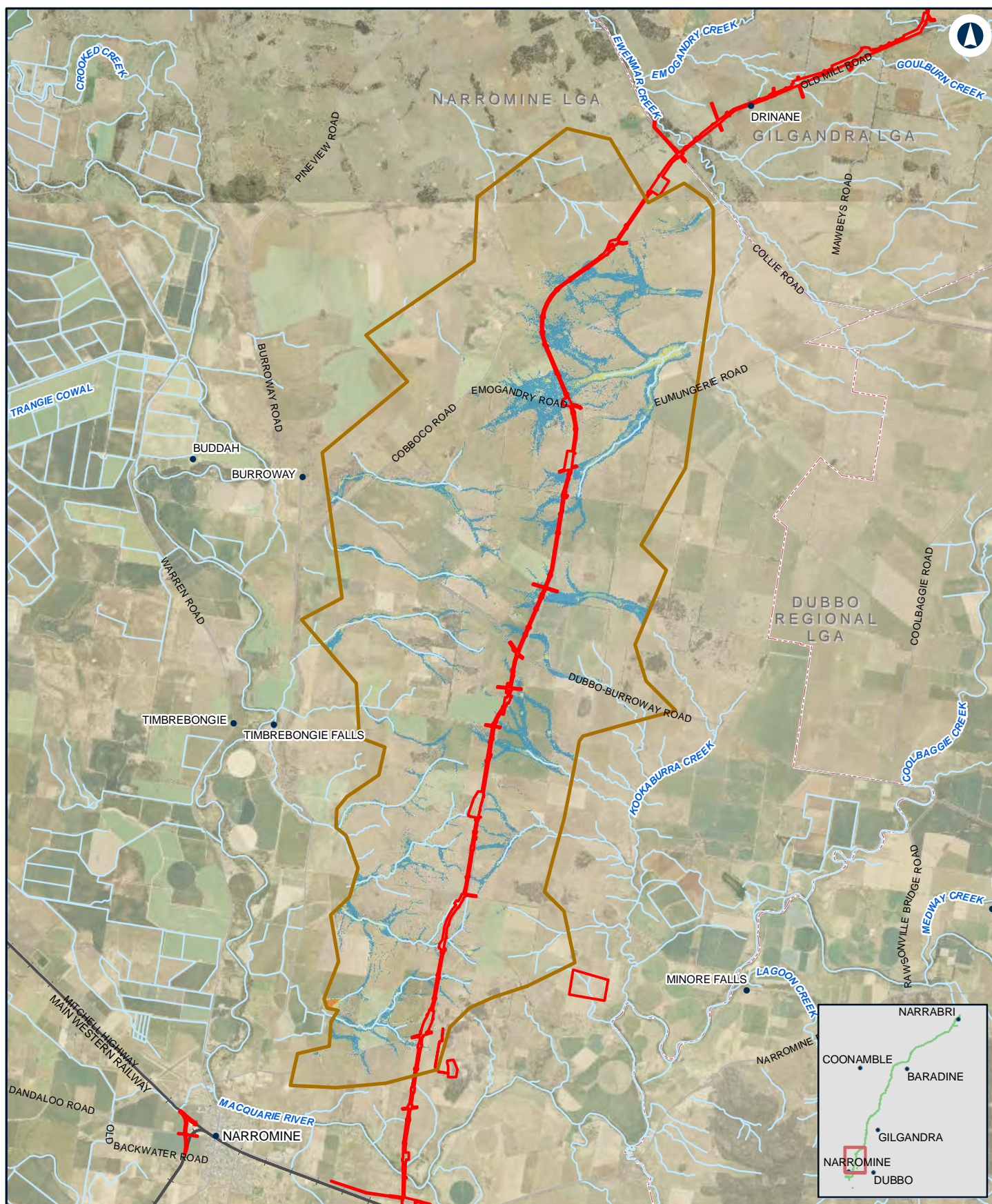
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

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NARROMINE TO NARRABRI

Existing flood hazard - 0.2% AEP - N2N14

Appendix D - Figure 4.7b

0 2 4 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:150,000

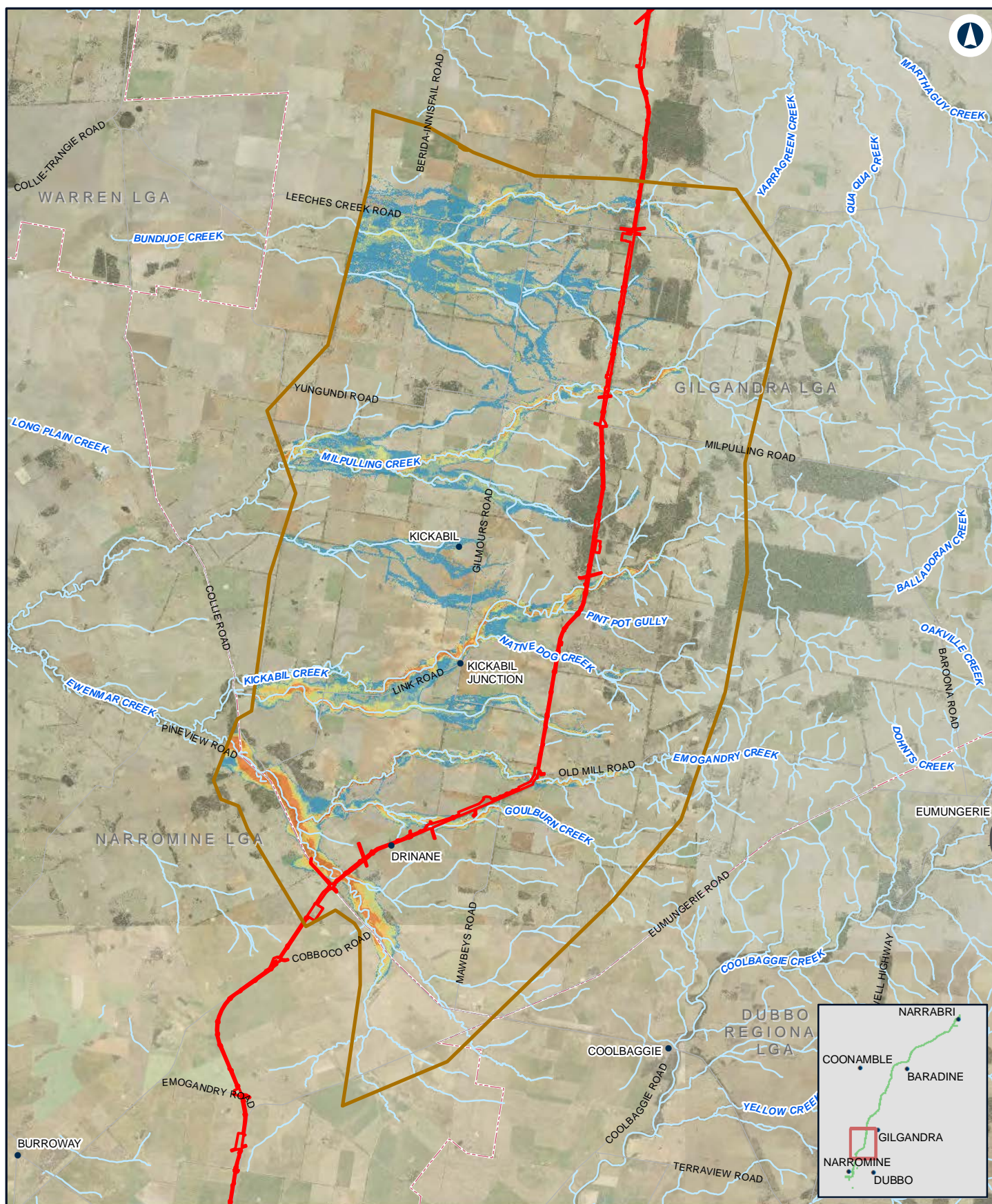
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

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NARROMINE TO NARRABRI

Existing flood hazard - 0.2% AEP - N2N13

Appendix D - Figure 4.7c

0 2.5 5
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:180,000

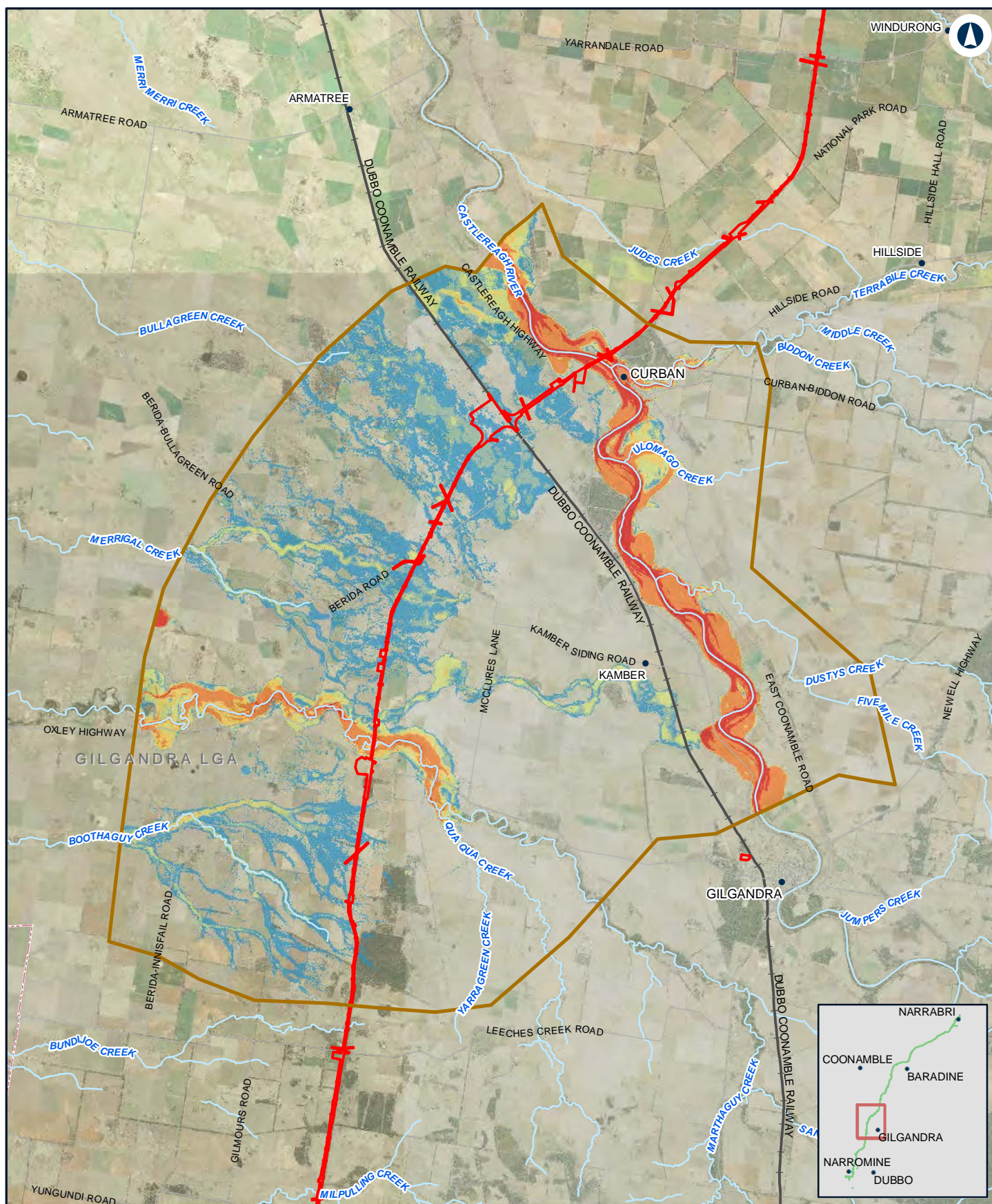
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

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NARROMINE TO NARRABRI

Existing flood hazard - 0.2% AEP - N2N11N12

Appendix D - Figure 4.7d

0 2.5 5
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:200,000

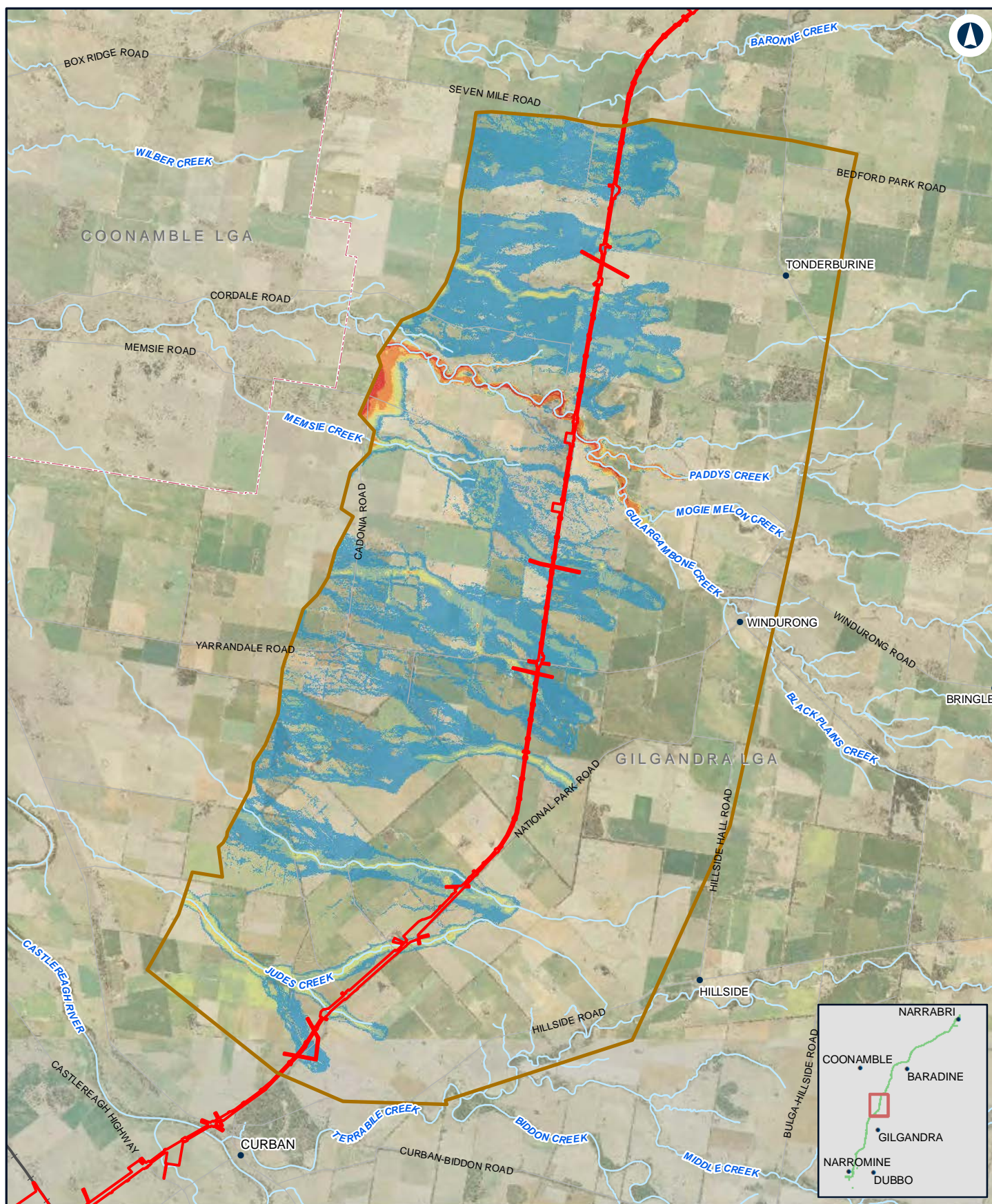
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

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NARROMINE TO NARRABRI

Existing flood hazard - 0.2% AEP - N2N10

Appendix D - Figure 4.7e

0 1.5 3
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:130,000

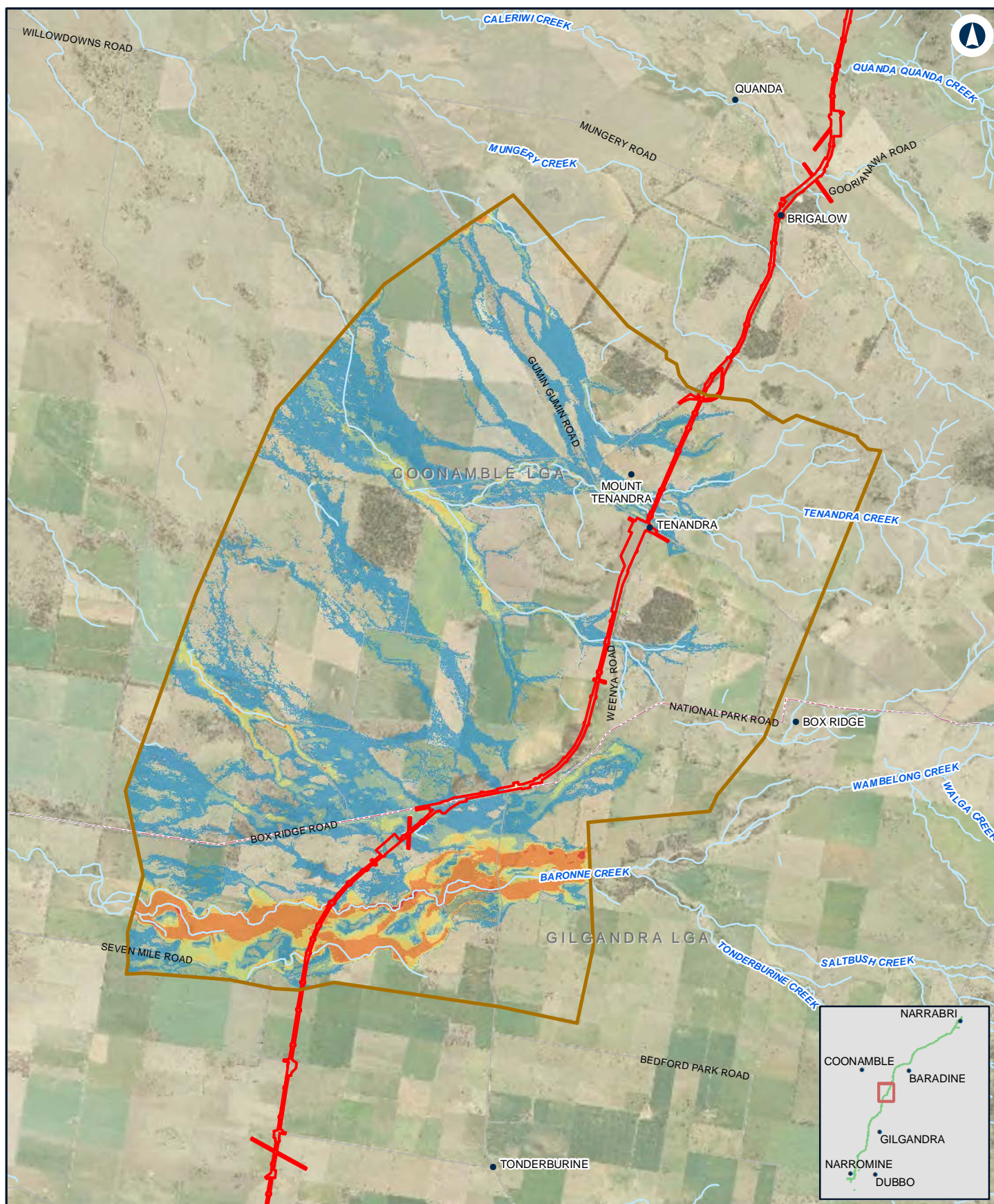
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

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
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- Unconditionally dangerous

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Existing flood hazard - 0.2% AEP - N2N9

Appendix D - Figure 4.7f

0 1.5 3 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020
Author: JacobsGHD

Paper: A4
Scale: 1:110,000

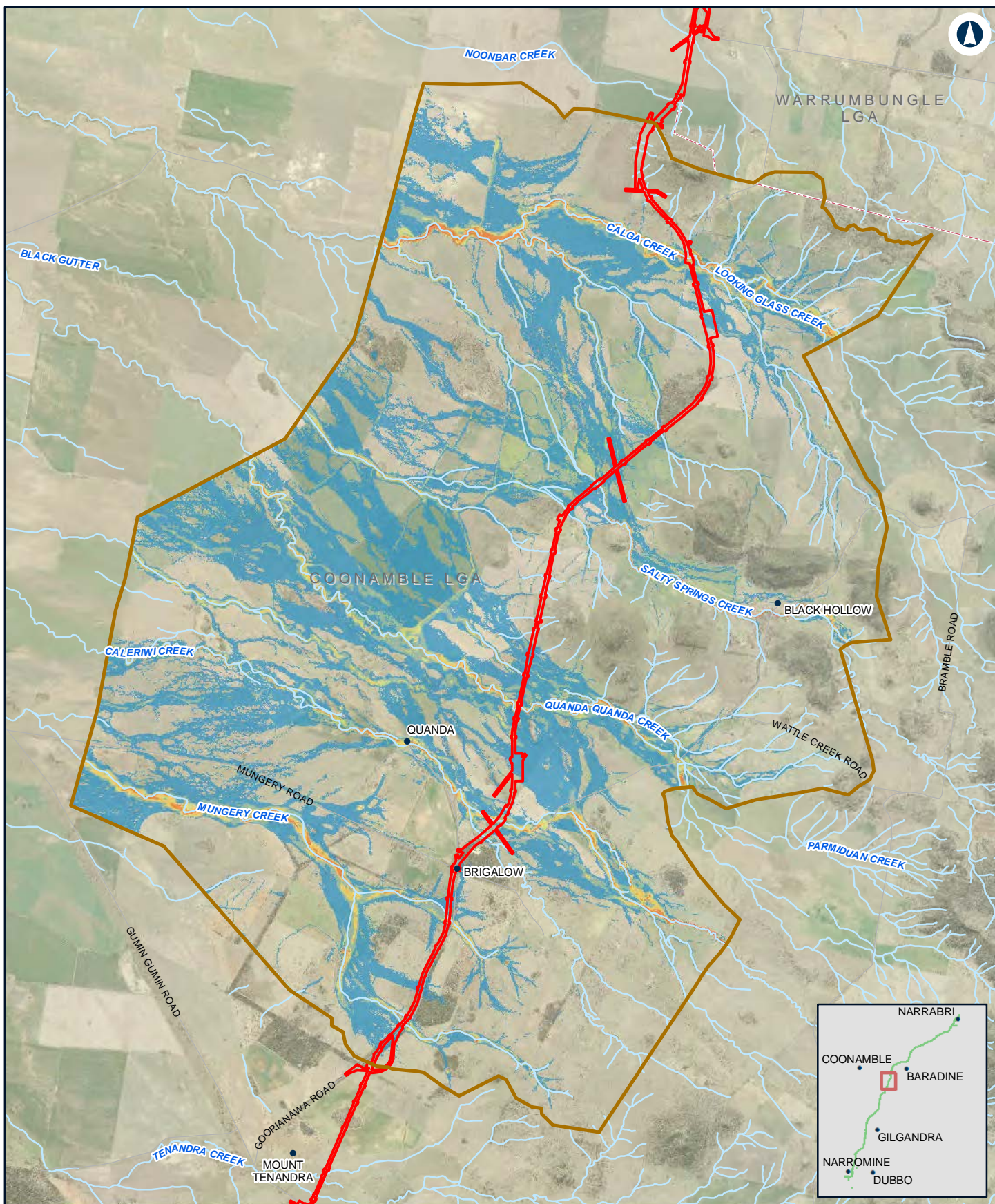
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

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NARROMINE TO NARRABRI

Existing flood hazard - 0.2% AEP - N2N8

Appendix D - Figure 4.7g

0 1 2 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020
Author: JacobsGHD

Paper: A4
Scale: 1:100,000

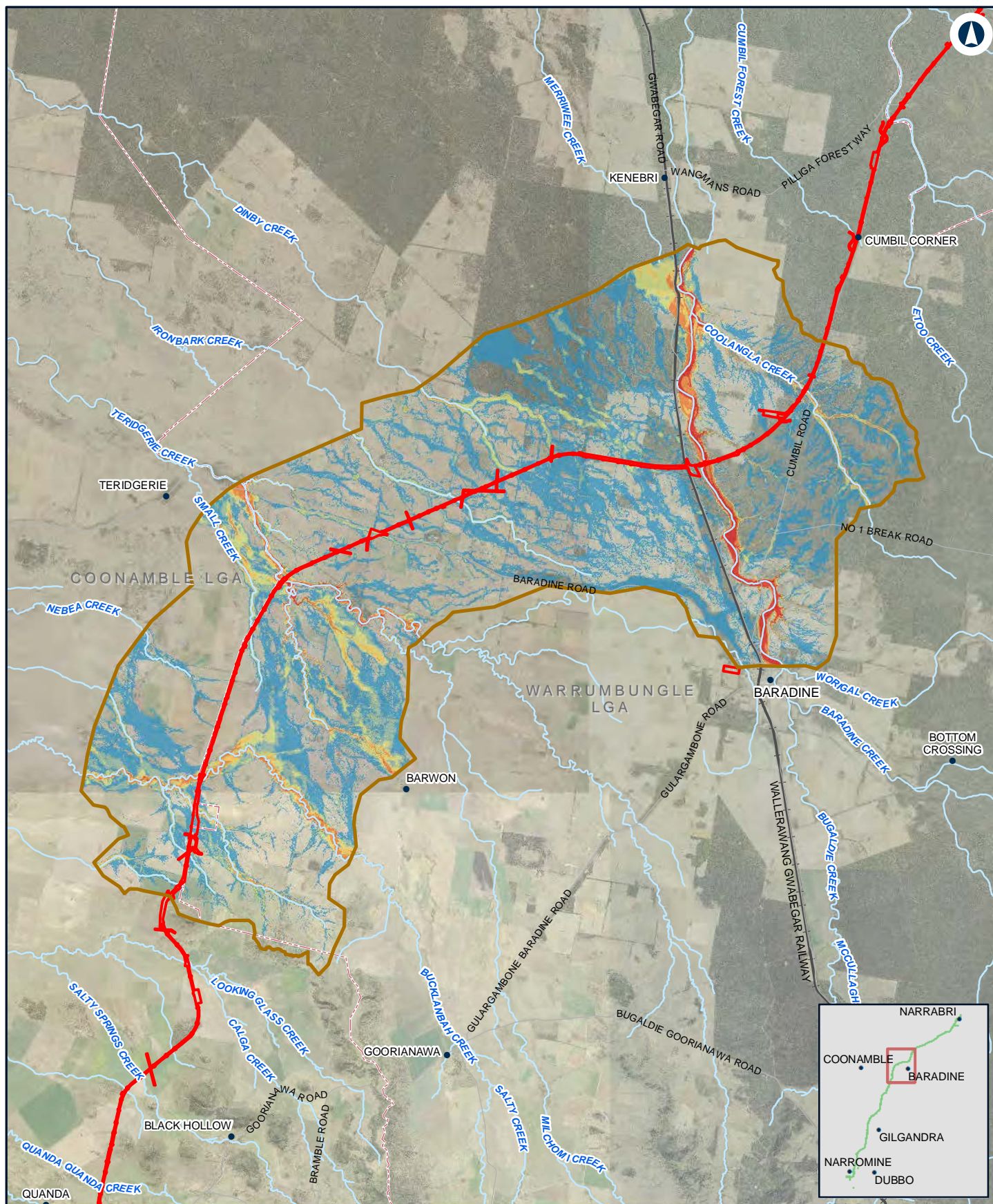
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

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NARROMINE TO NARRABRI

Existing flood hazard - 0.2% AEP - N2N7

Appendix D - Figure 4.7h

0 2.5 5
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:200,000

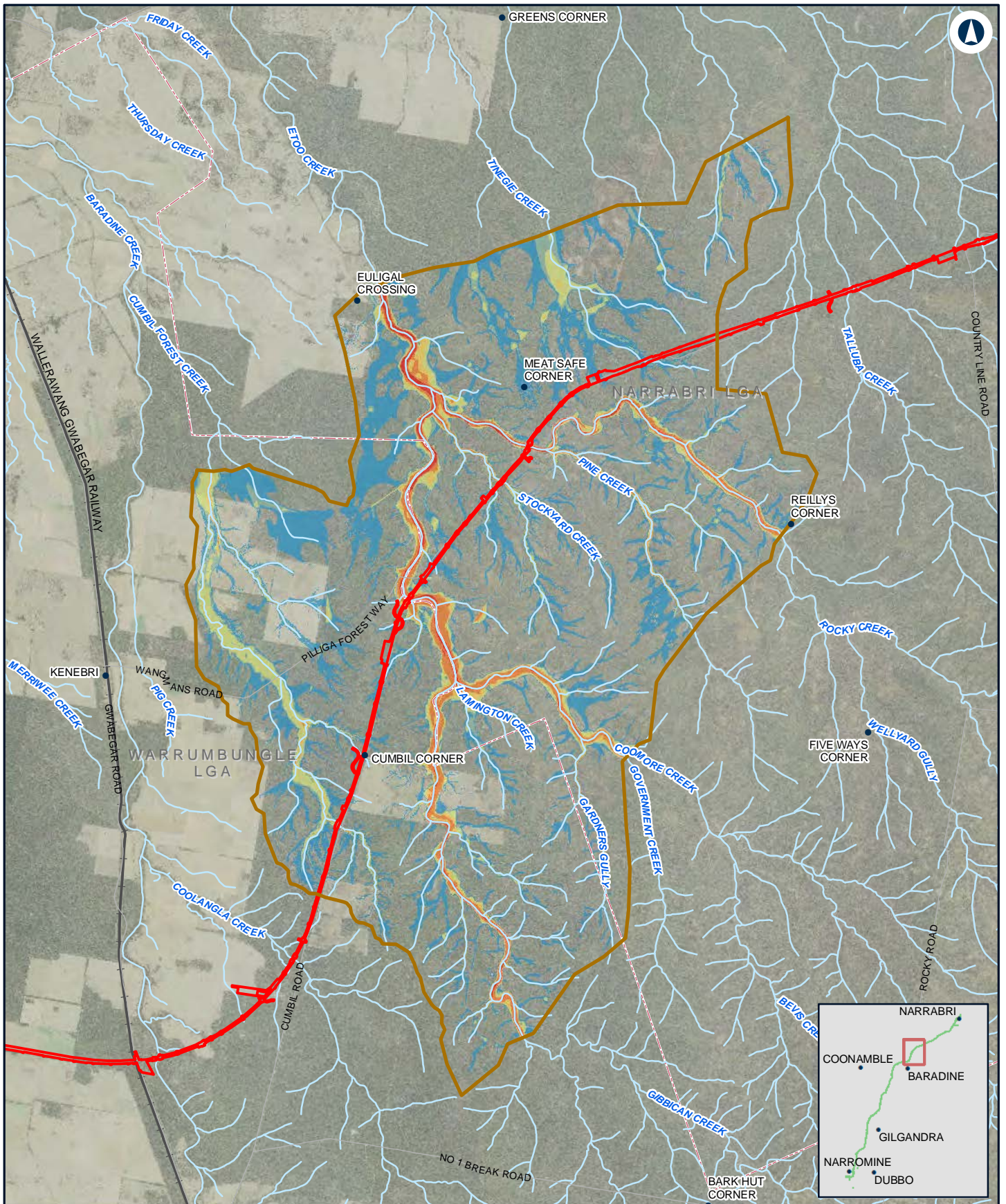
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

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NARROMINE TO NARRABRI

Existing flood hazard - 0.2% AEP - N2N6

Appendix D - Figure 4.7i

0 2 4 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:150,000

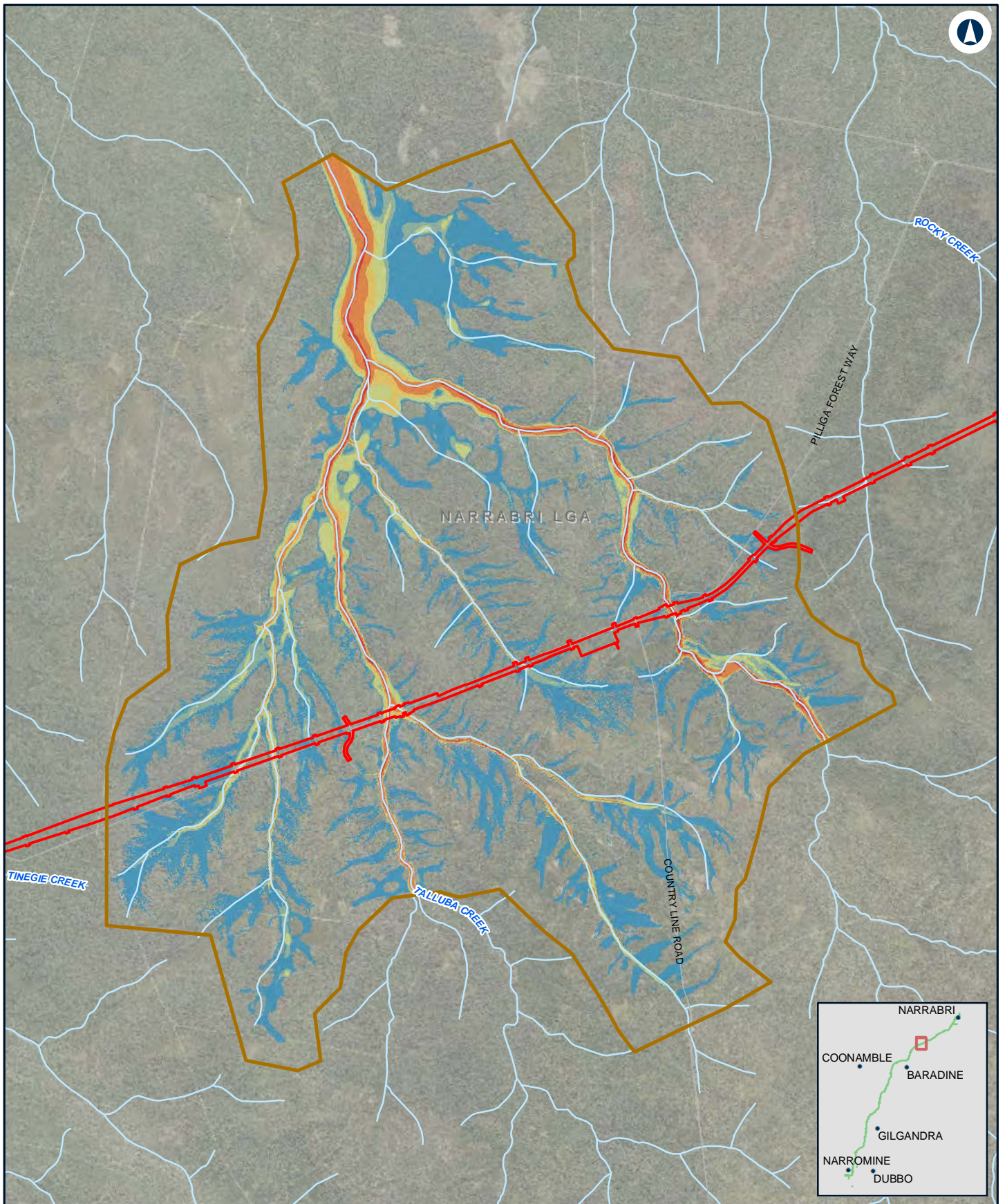
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

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NARROMINE TO NARRABRI

Existing flood hazard - 0.2% AEP - N2N5

Appendix D - Figure 4.7j

0 1 2 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:70,000

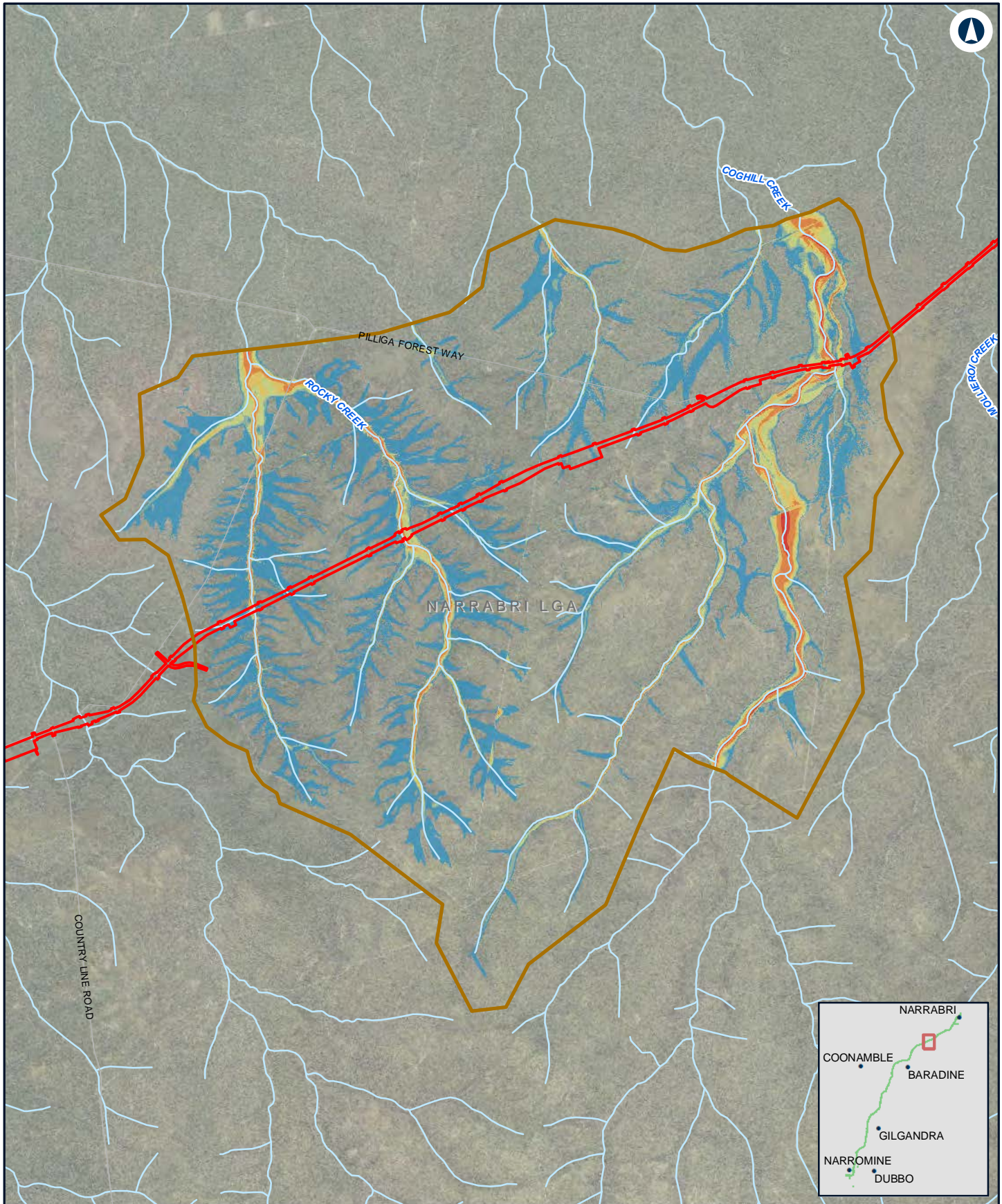
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

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INLAND RAIL **ARTC**

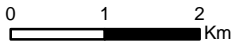
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NARROMINE TO NARRABRI

Existing flood hazard - 0.2% AEP - N2N4

Appendix D - Figure 4.7k



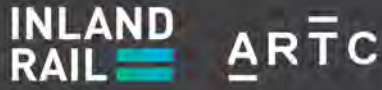
Coordinate System: GDA 1994 MGA Zone 55

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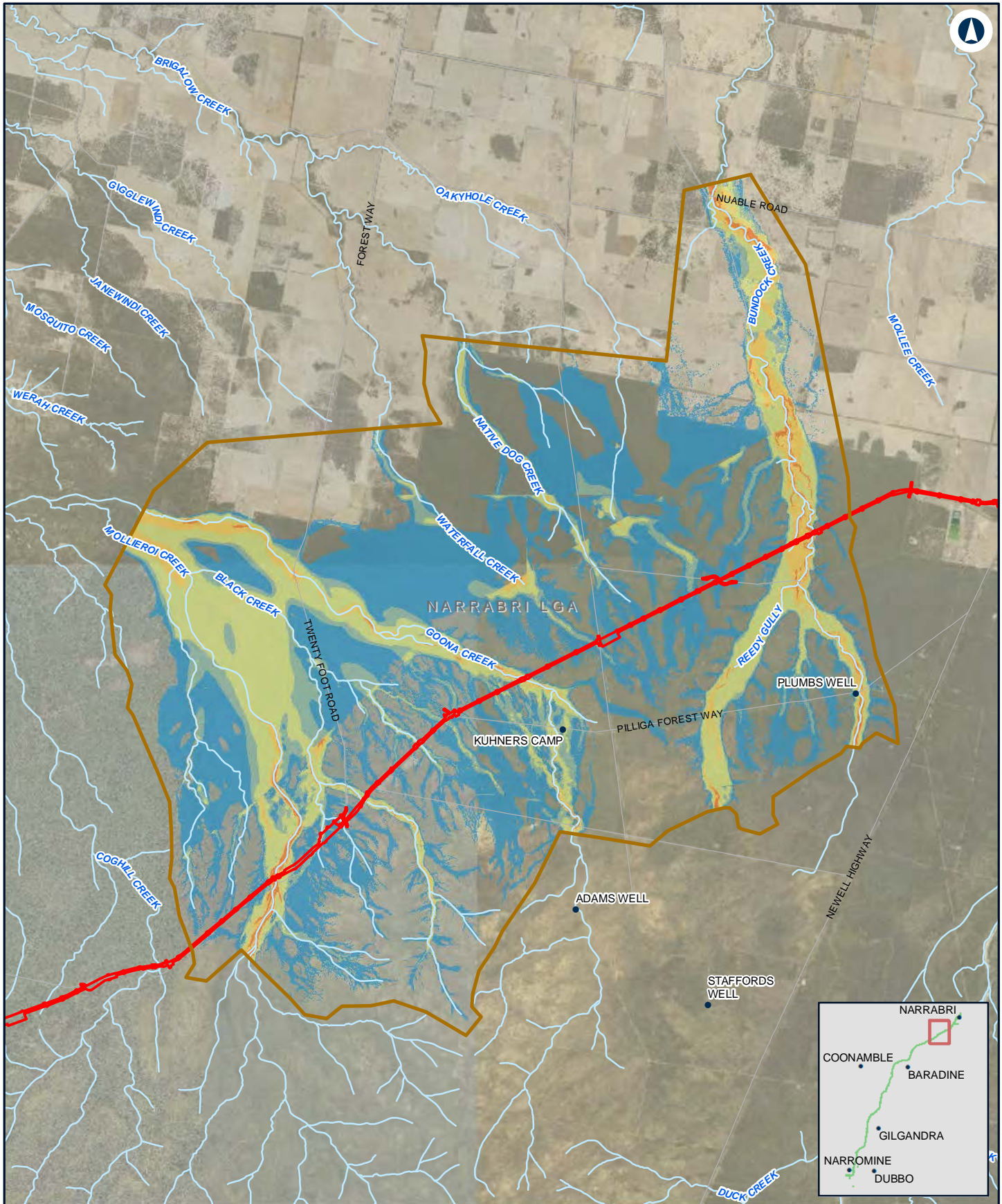
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:80,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- LEGEND**
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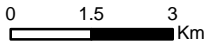
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NARROMINE TO NARRABRI

Existing flood hazard - 0.2% AEP - N2N23

Appendix D - Figure 4.7I



Coordinate System: GDA 1994 MGA Zone 55

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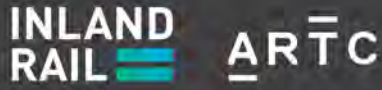
ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information contained within this GIS map.

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

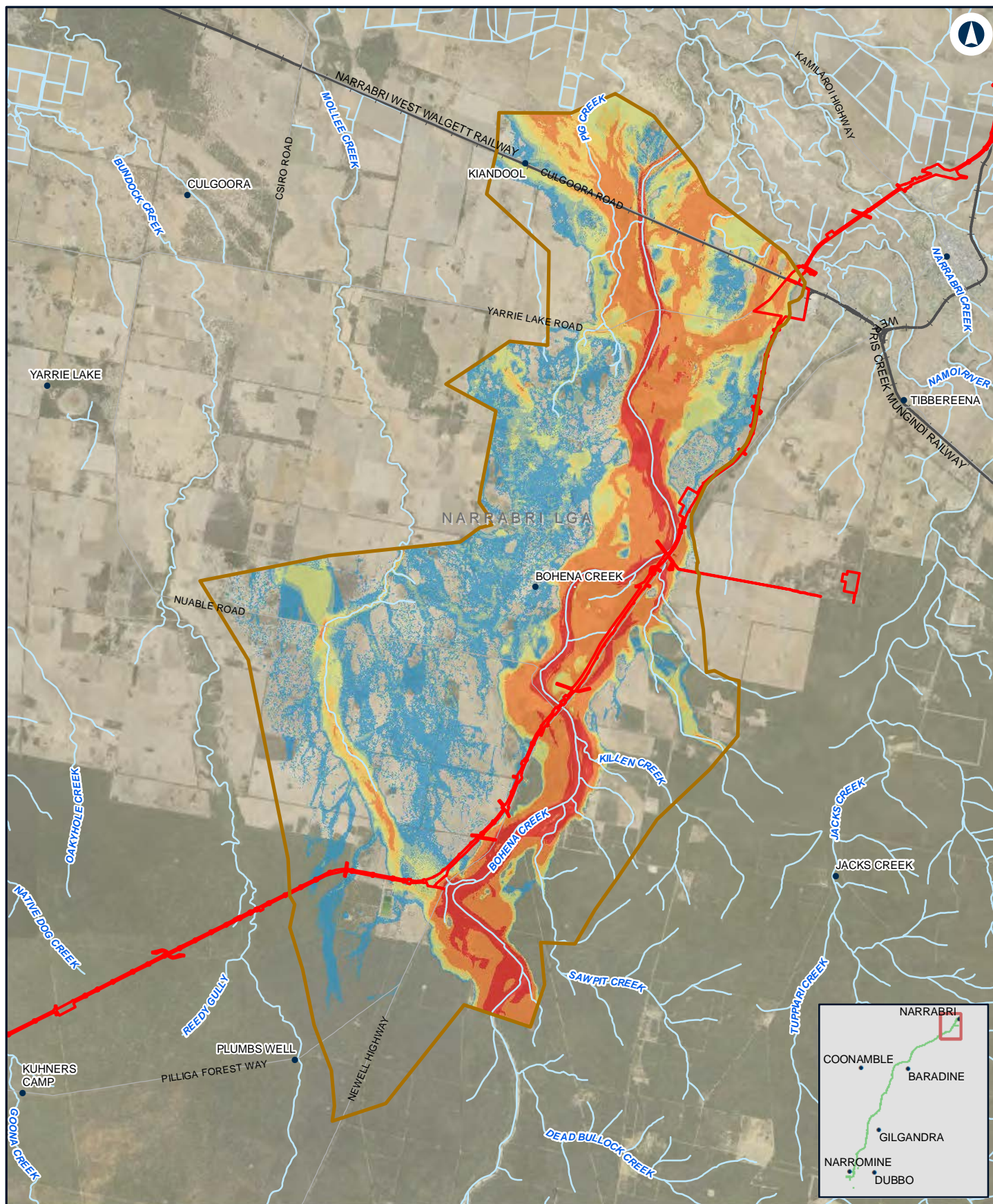
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

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NARROMINE TO NARRABRI

Existing flood hazard - 0.2% AEP - N2N1

Appendix D - Figure 4.7m

0 2 4 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:150,000

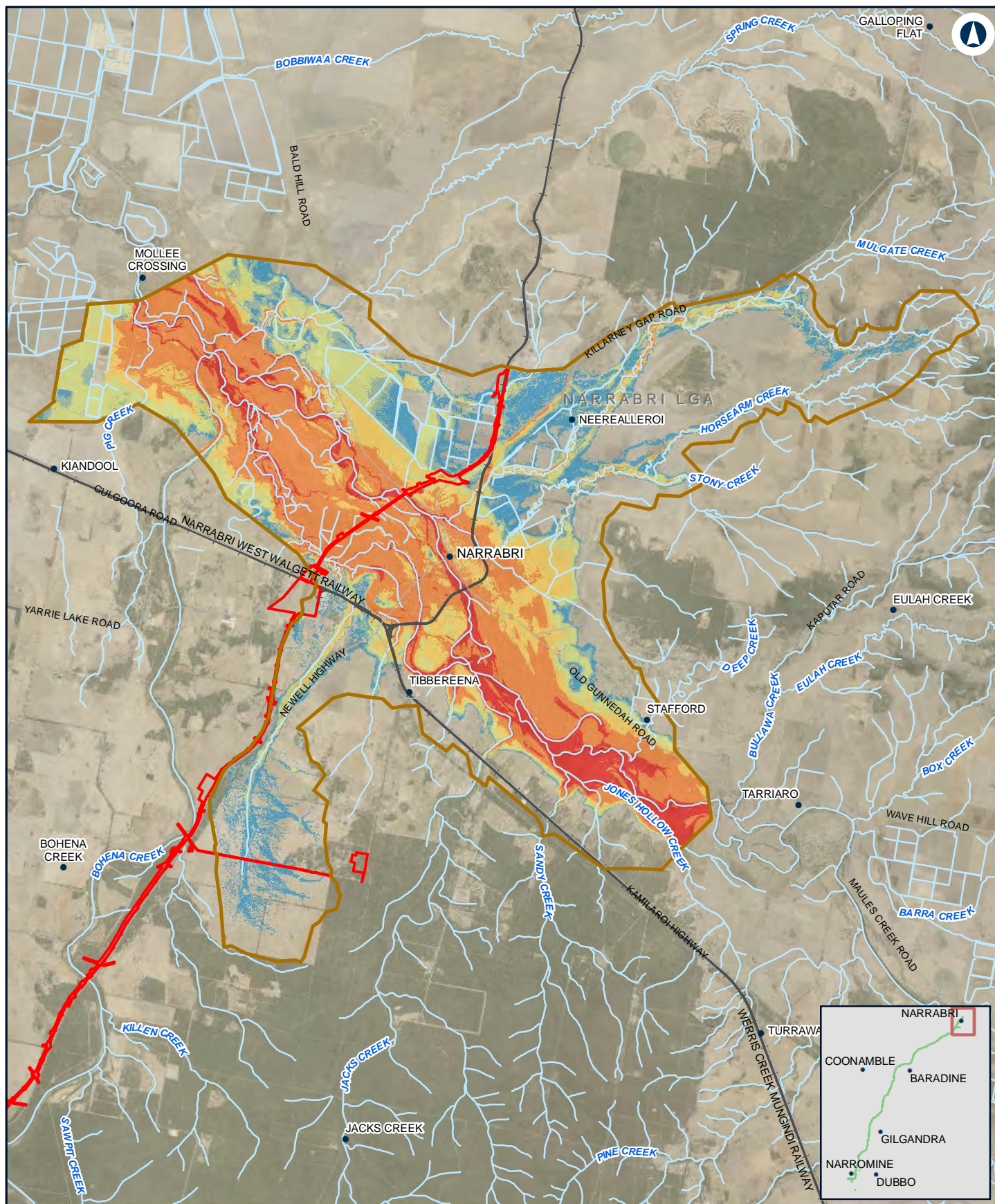
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

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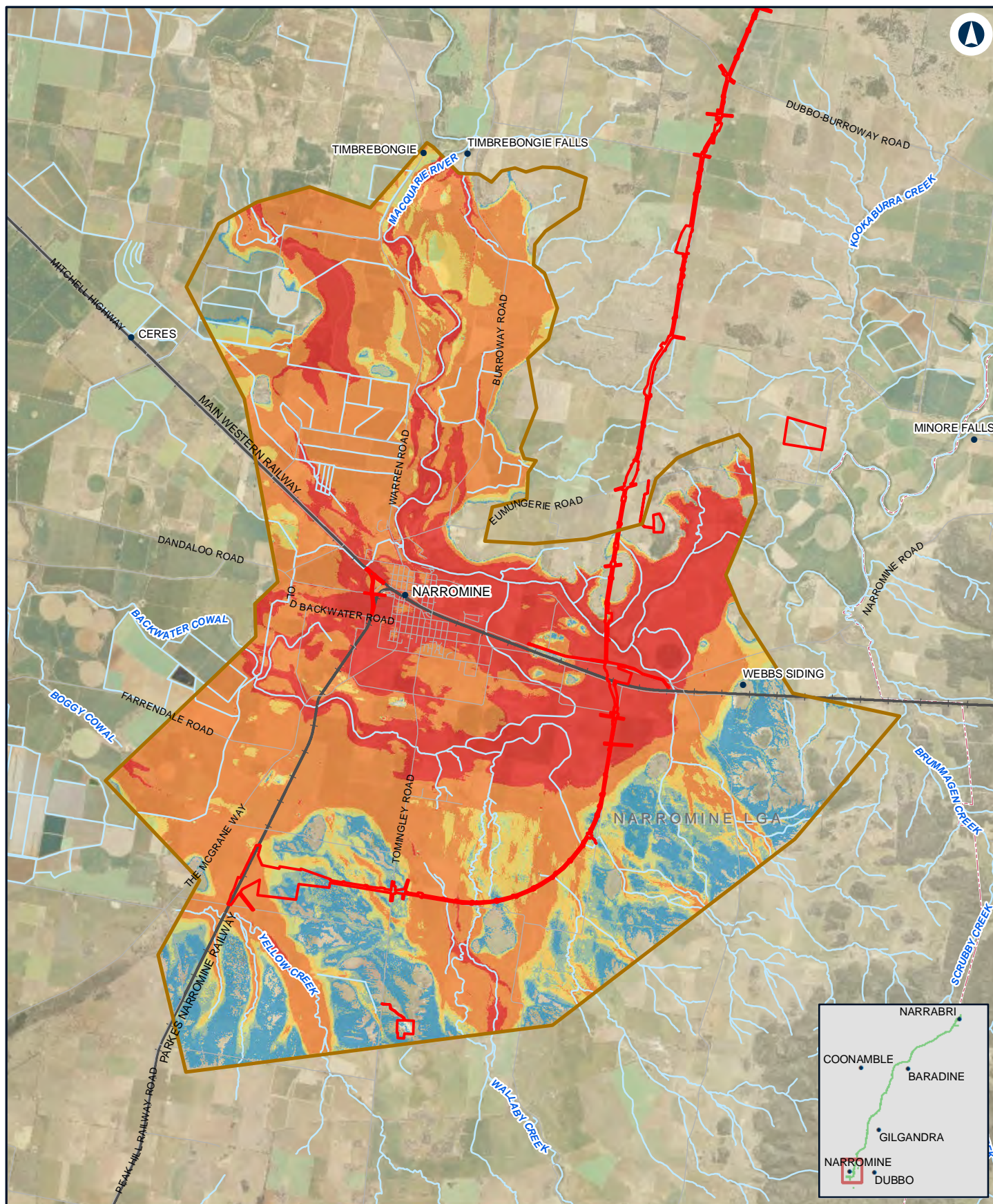
NARROMINE TO NARRABRI

Existing flood hazard - 0.2% AEP - Narrabri

Appendix D - Figure 4.7n

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Existing flood hazard - PMF - NFM

Appendix D - Figure 4.8a

0 1.5 3 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:140,000

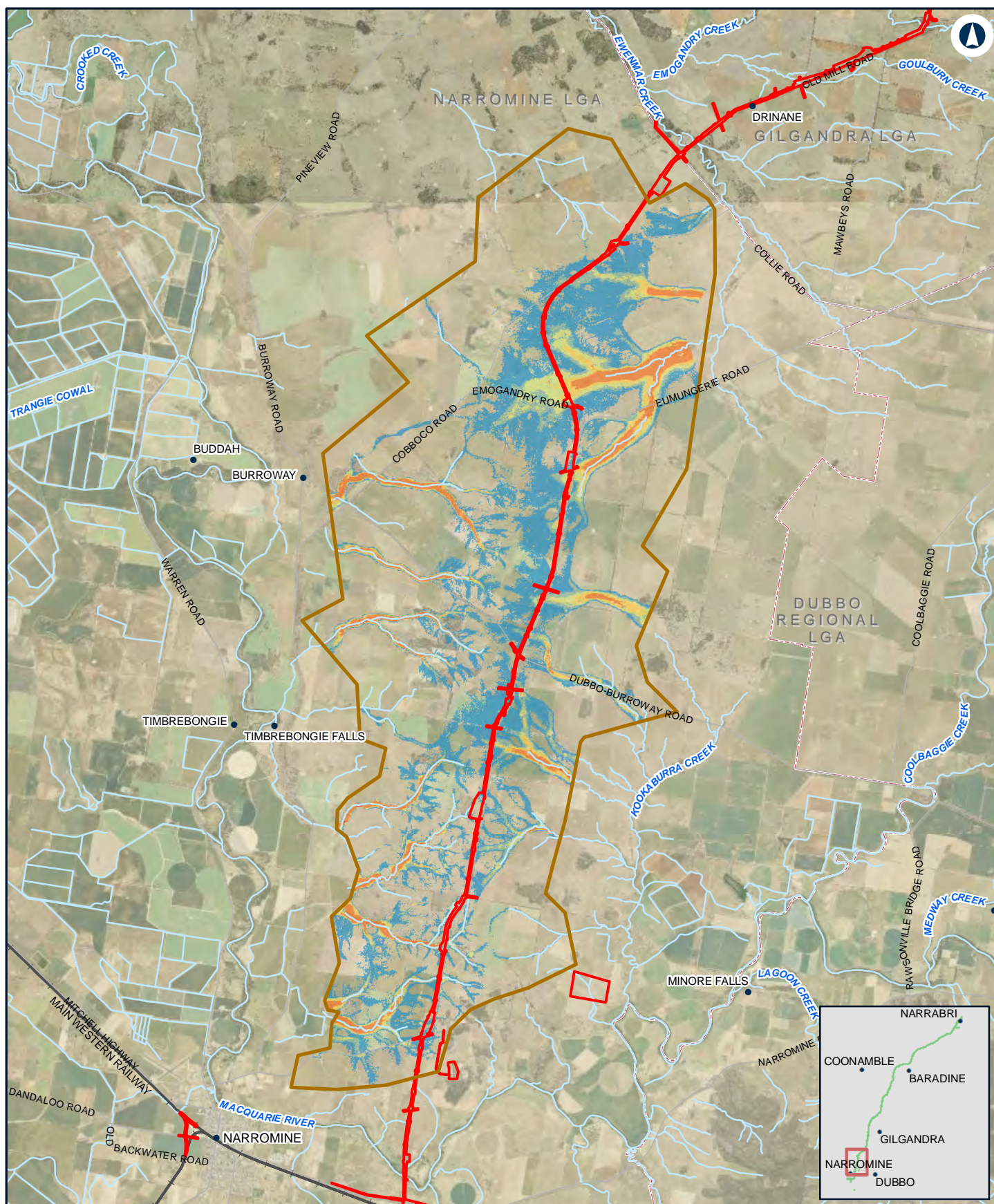
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

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0 2 4 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:150,000

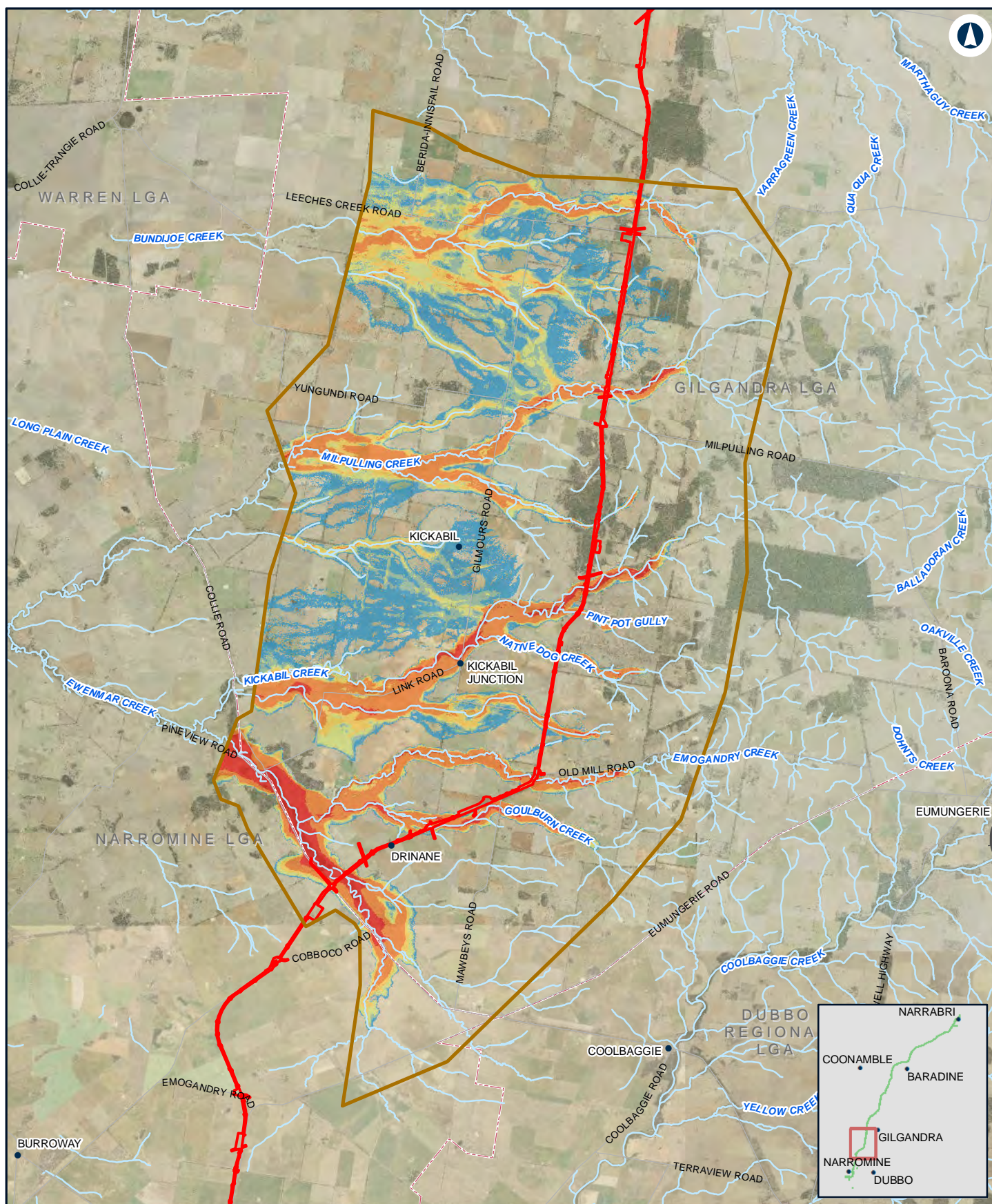
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

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NARROMINE TO NARRABRI

Existing flood hazard - PMF - N2N13

Appendix D - Figure 4.8c

0 2.5 5 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:180,000

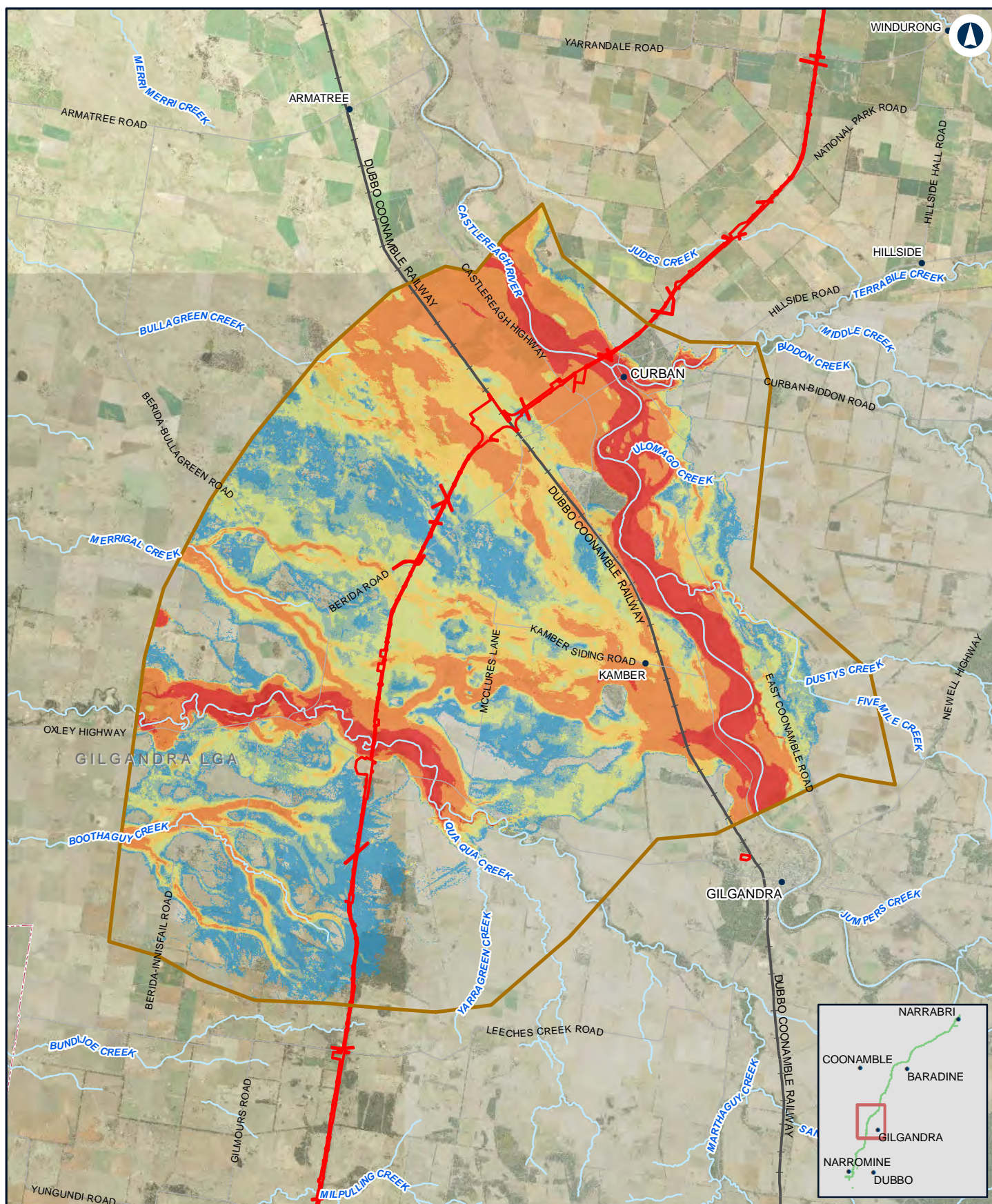
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NARROMINE TO NARRABRI

Existing flood hazard - PMF - N2N11N12

Appendix D - Figure 4.8d

0 2.5 5
Km

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4

Author: JacobsGHD

Scale: 1:200,000

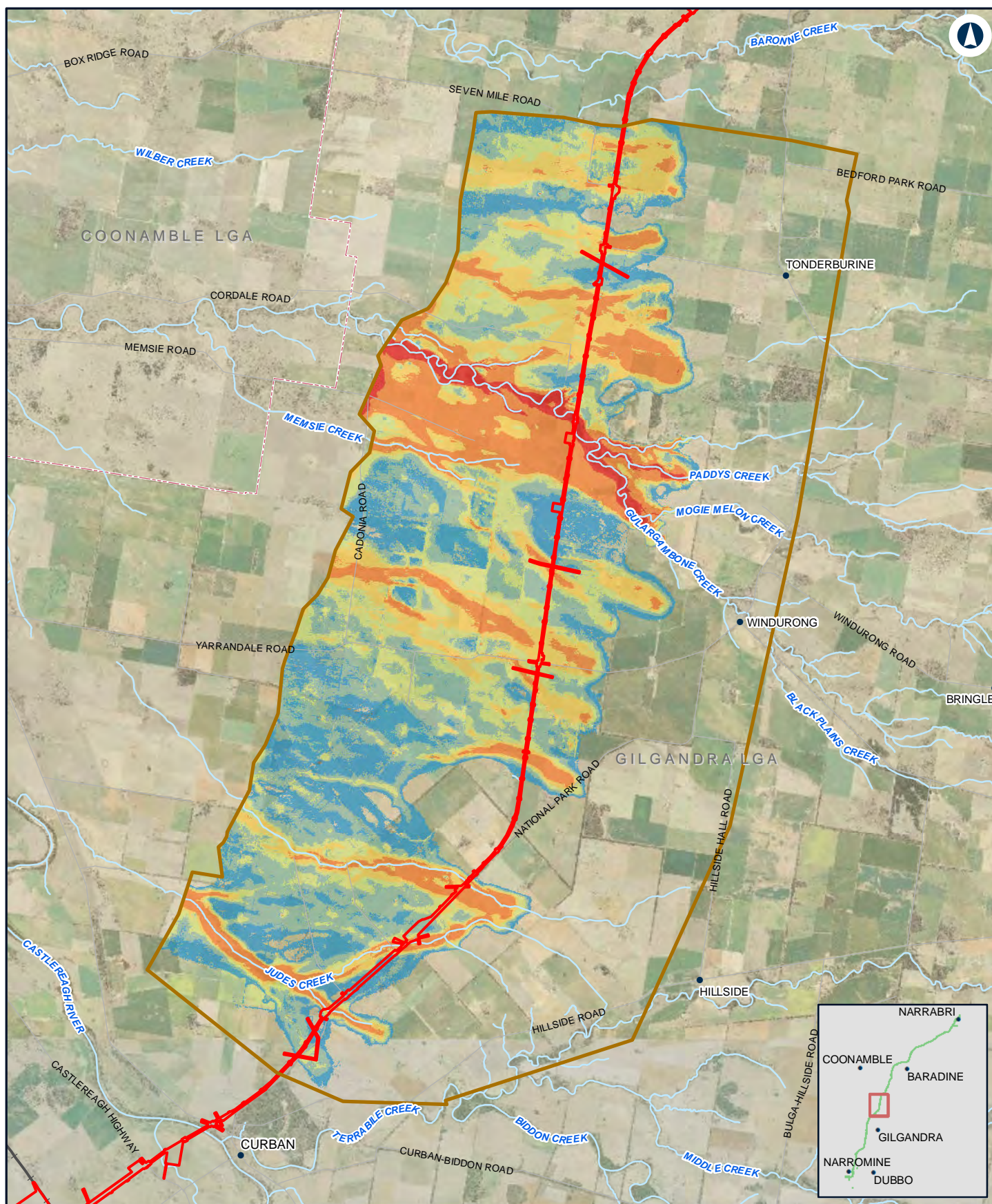
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

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NARROMINE TO NARRABRI

Existing flood hazard - PMF - N2N10

Appendix D - Figure 4.8e

0 1.5 3
Km

Coordinate System: GDA 1994 MGA Zone 55

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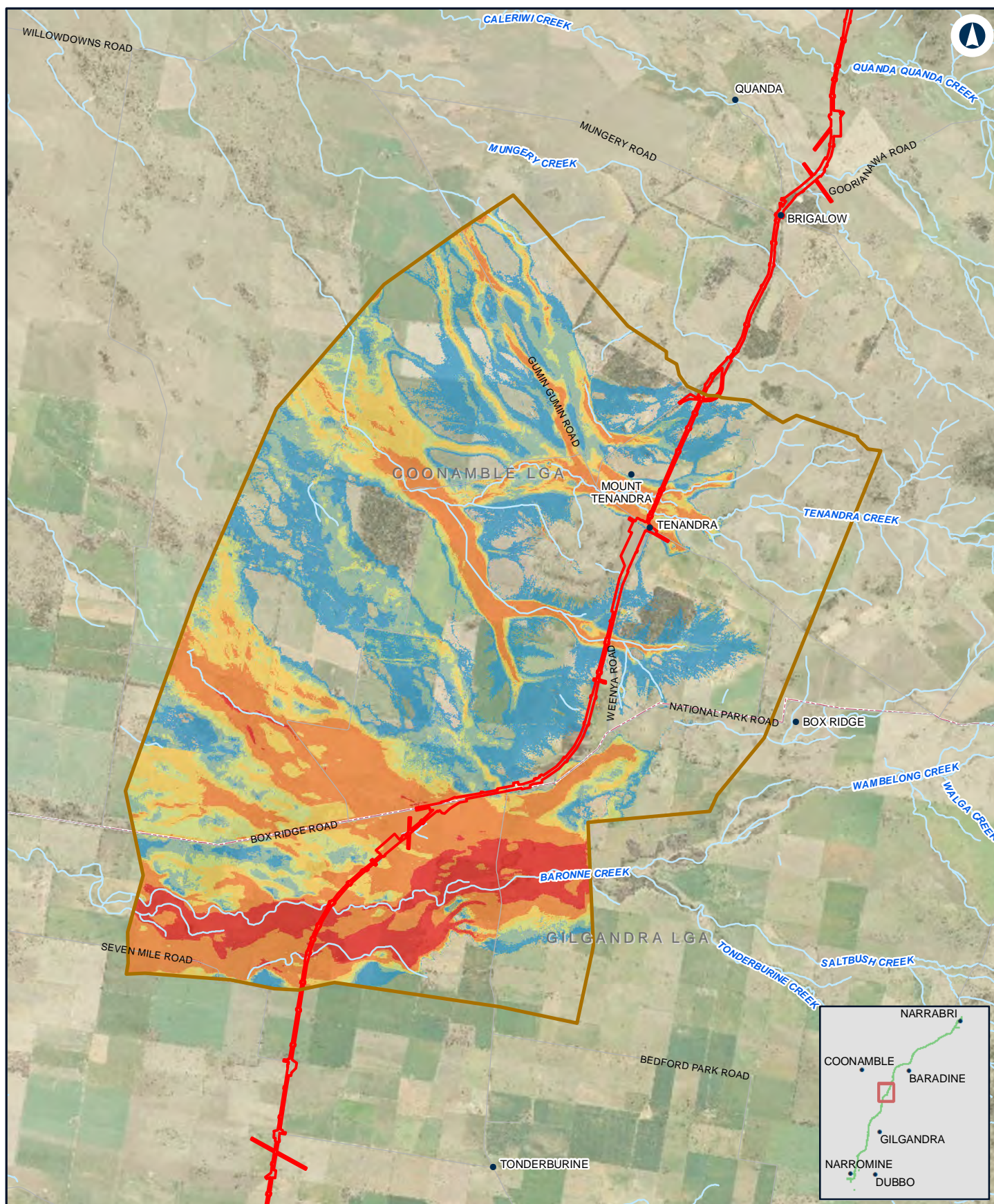
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NARROMINE TO NARRABRI

Existing flood hazard - PMF - N2N9

Appendix D - Figure 4.8f

0 1.5 3 Km

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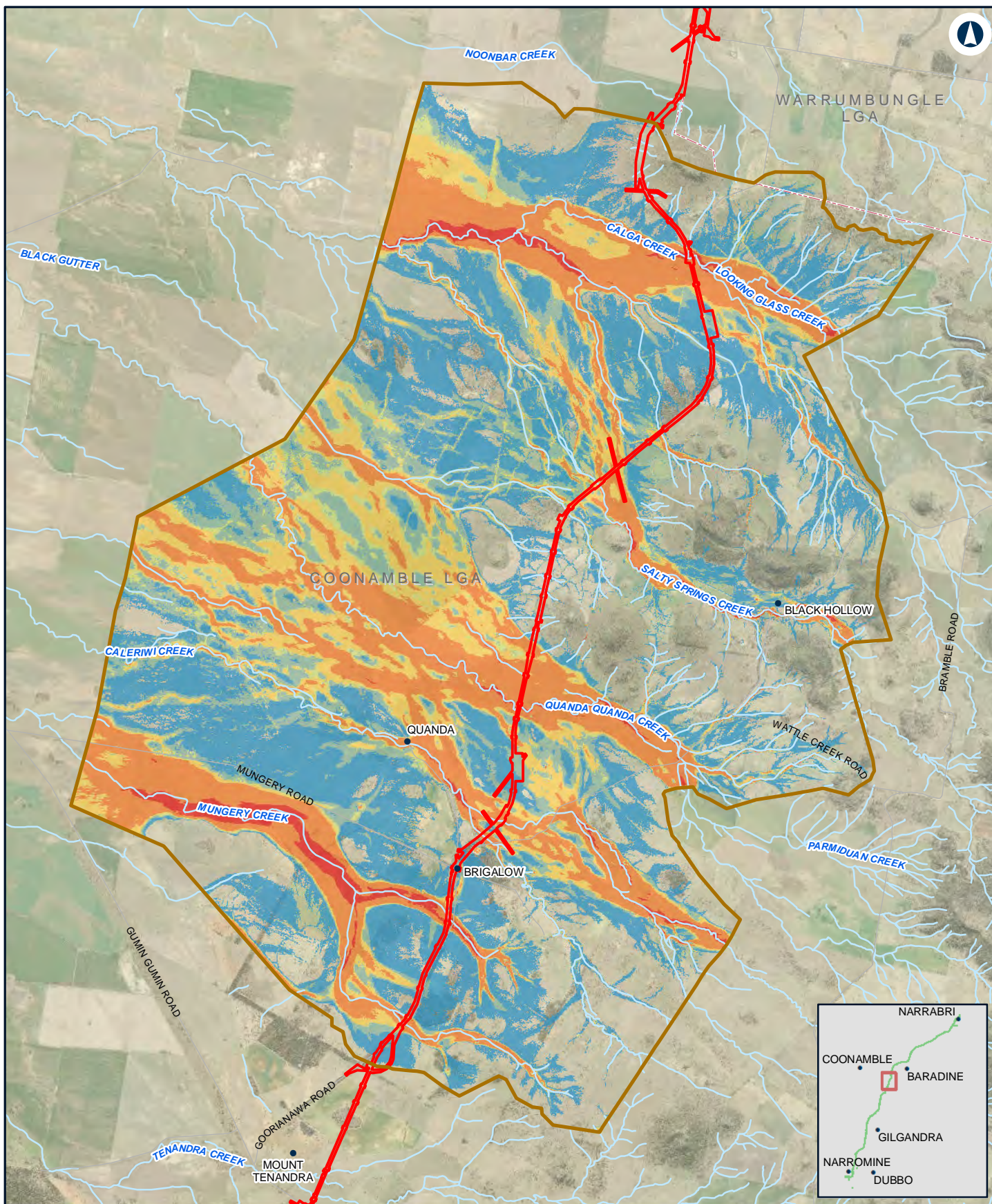
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NARROMINE TO NARRABRI

Existing flood hazard - PMF - N2N8

Appendix D - Figure 4.8g

0 1 2 Km

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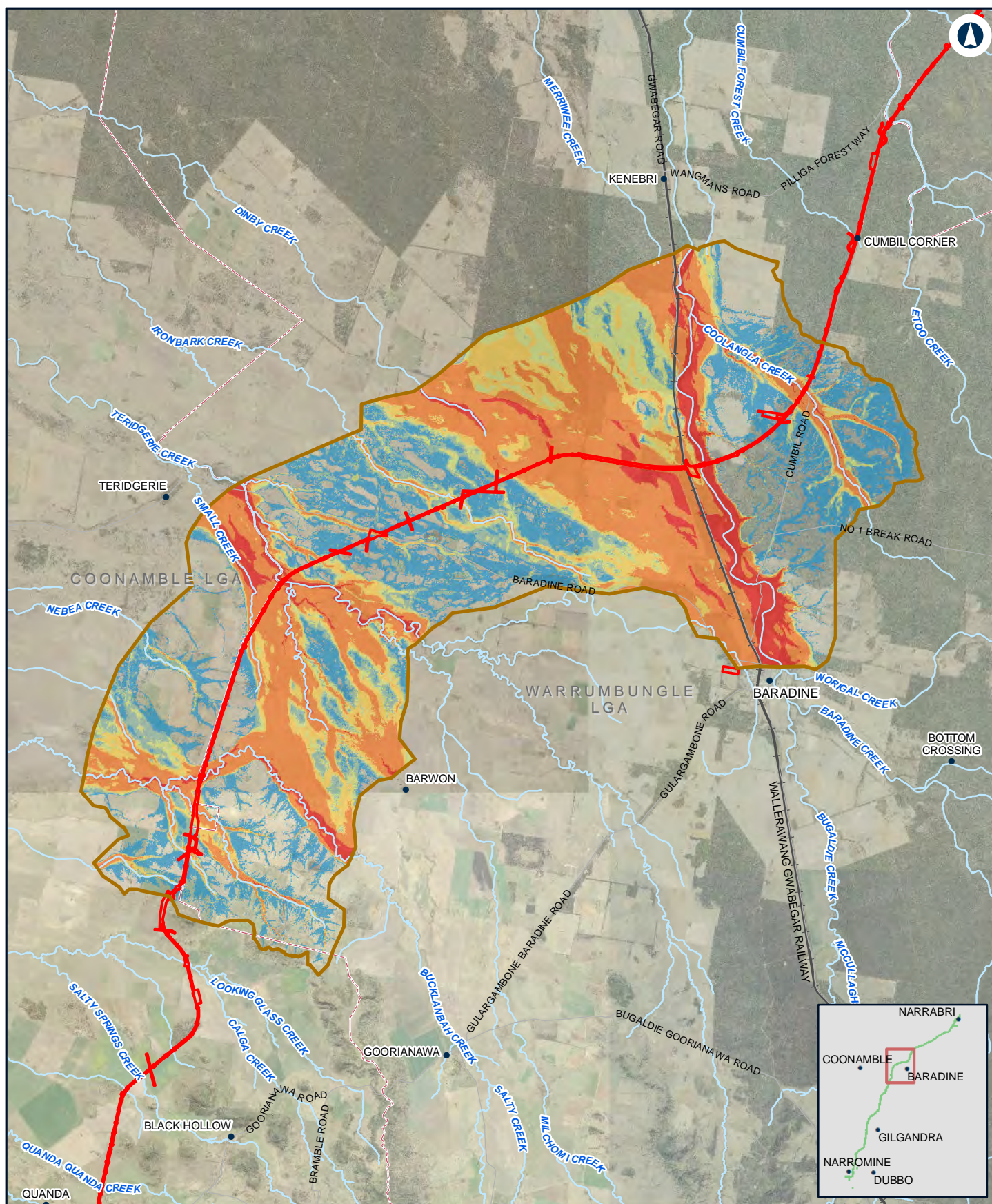
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NARROMINE TO NARRABRI

Existing flood hazard - PMF - N2N7

Appendix D - Figure 4.8h

0 2.5 5
Km

Coordinate System: GDA 1994 MGA Zone 55

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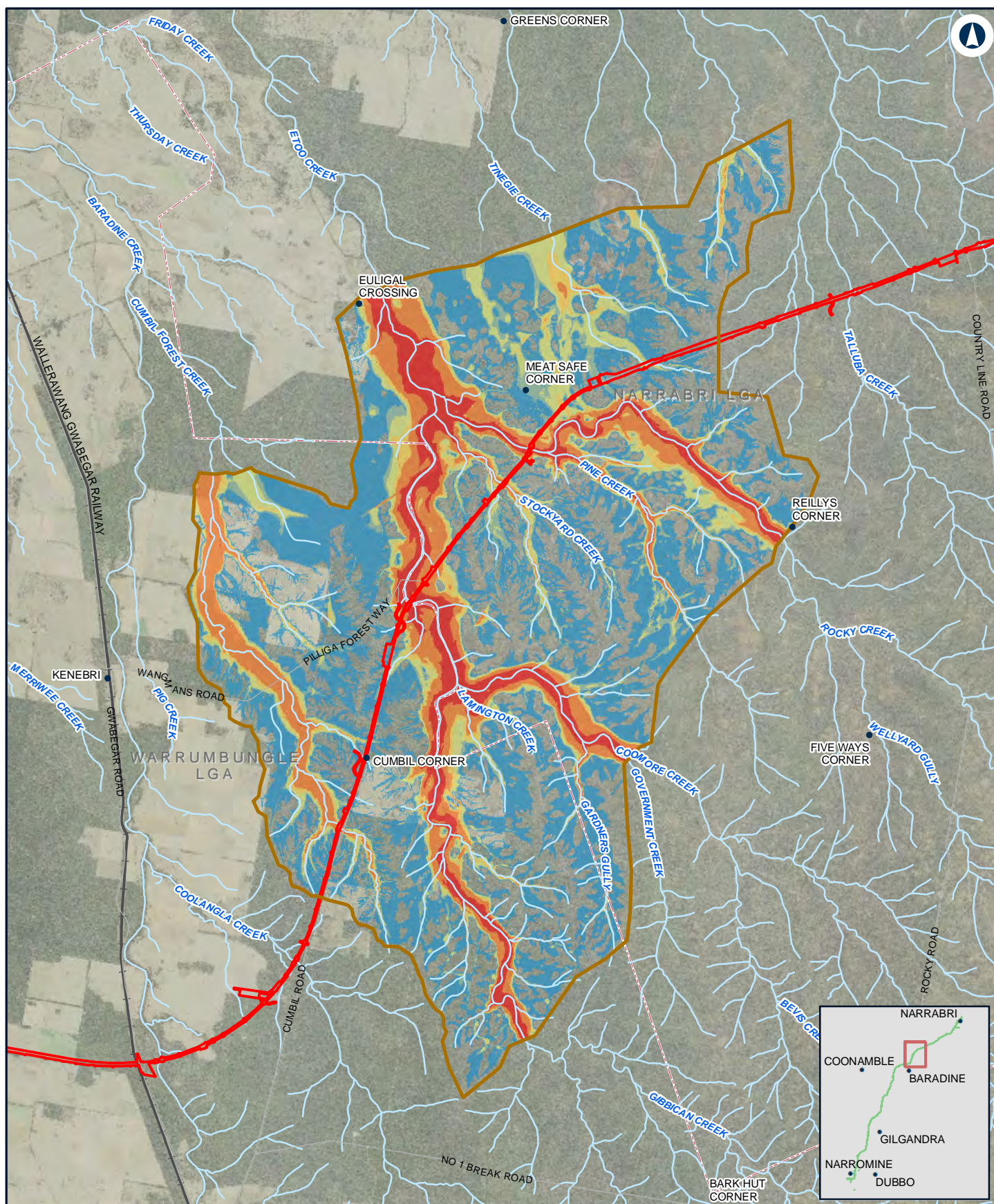
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NARROMINE TO NARRABRI

Existing flood hazard - PMF - N2N6

Appendix D - Figure 4.8i

0 2 4 Km

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Scale: 1:150,000

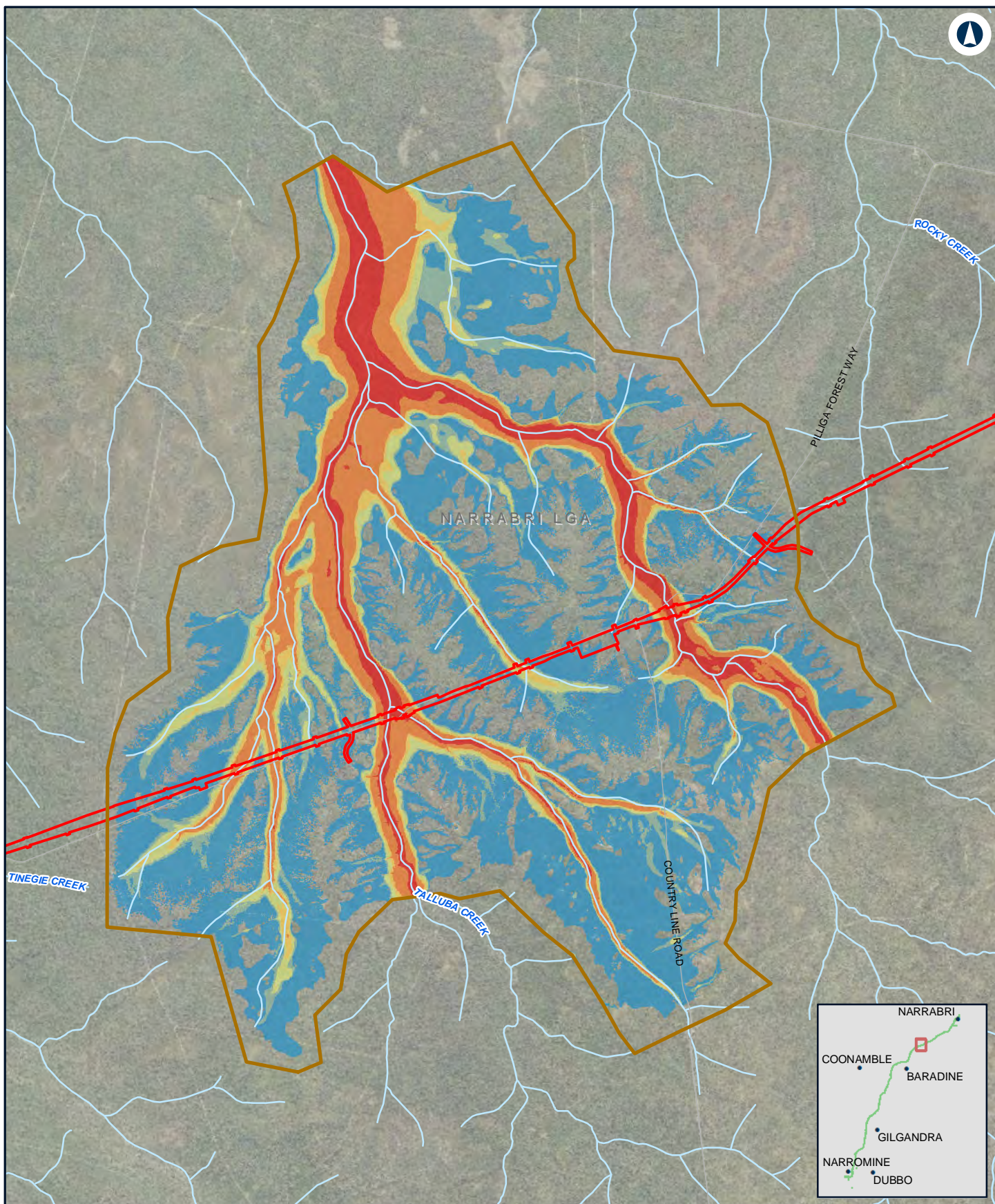
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NARROMINE TO NARRABRI

Existing flood hazard - PMF - N2N5

Appendix D - Figure 4.8j

0 1 2 Km

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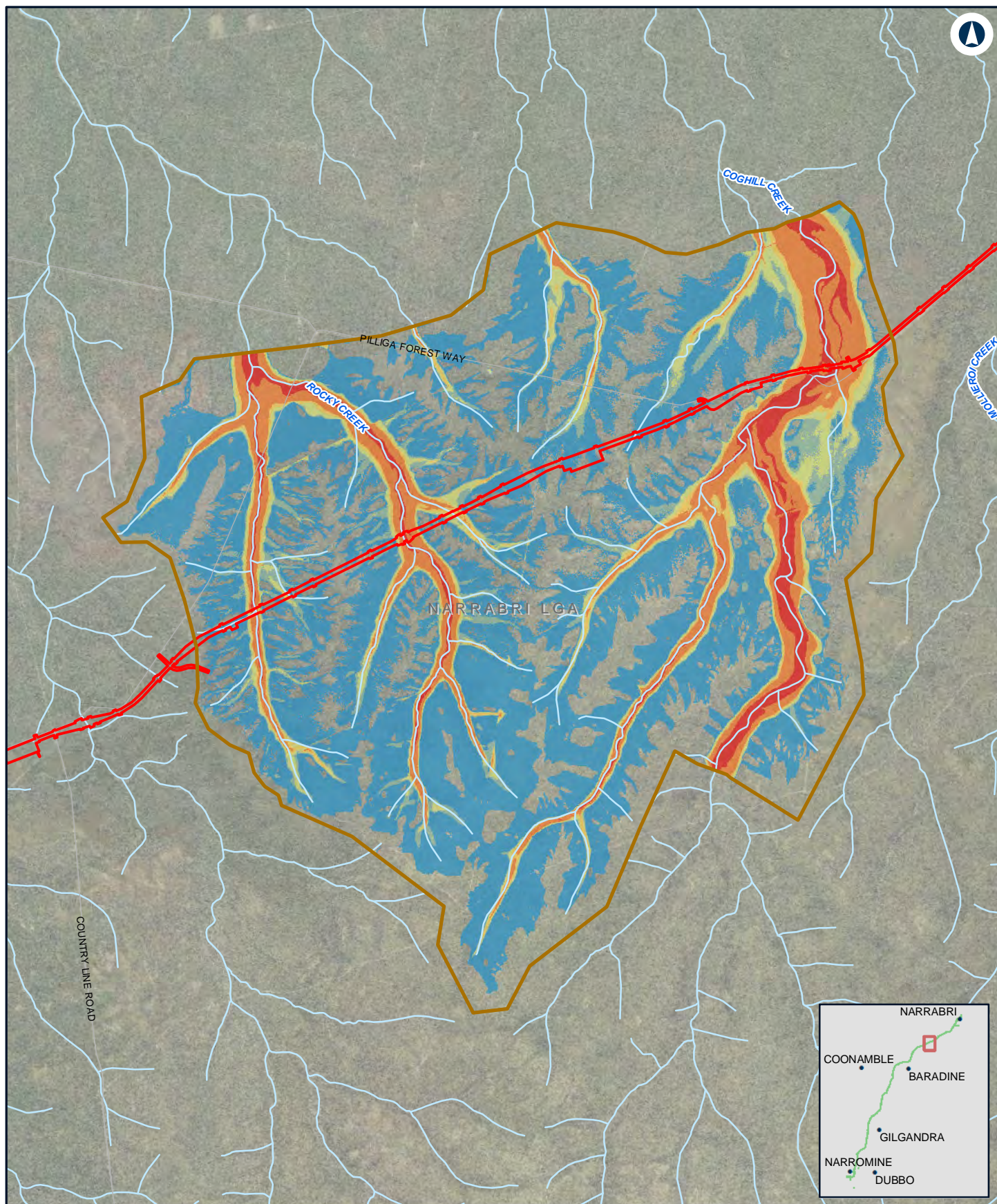
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NARROMINE TO NARRABRI

Existing flood hazard - PMF - N2N4

Appendix D - Figure 4.8k

0 1 2 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020
Author: JacobsGHD

Paper: A4
Scale: 1:80,000

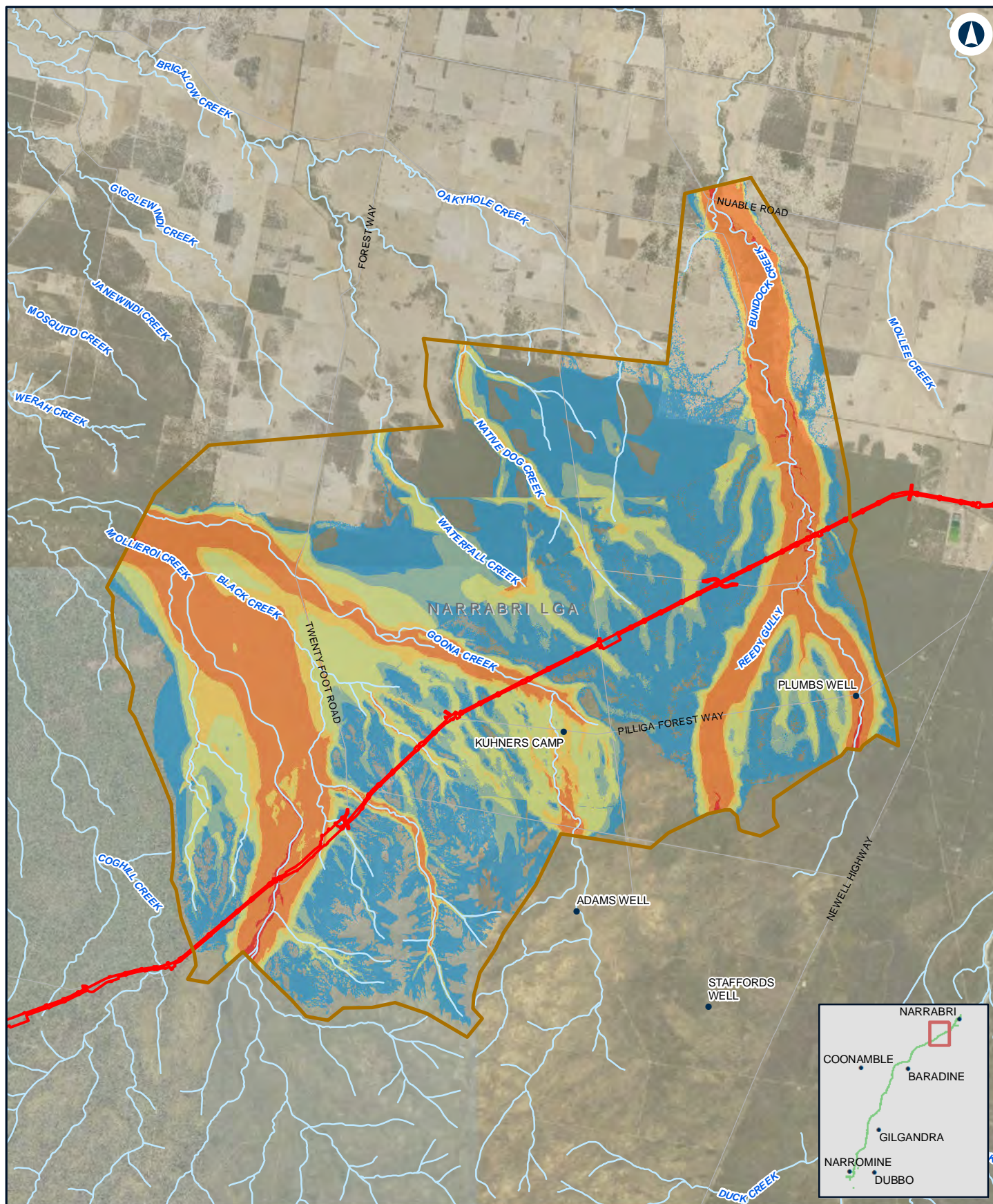
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

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

INLAND RAIL **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 flood hazard - PMF - N2N23

Appendix D - Figure 4.8I

0 1.5 3 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:140,000

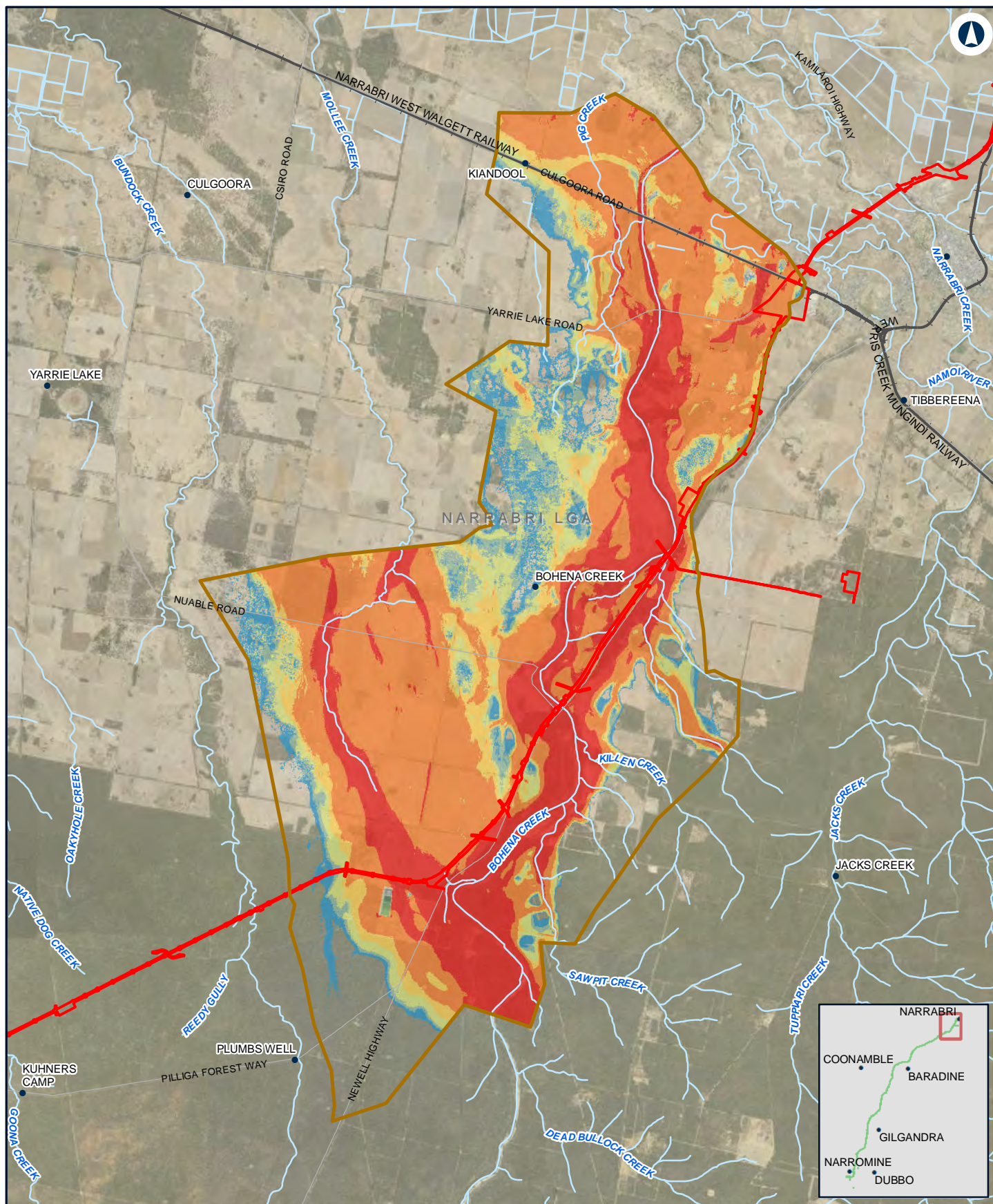
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

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 - PMF - N2N1

Appendix D - Figure 4.8m

0 2 4 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:150,000

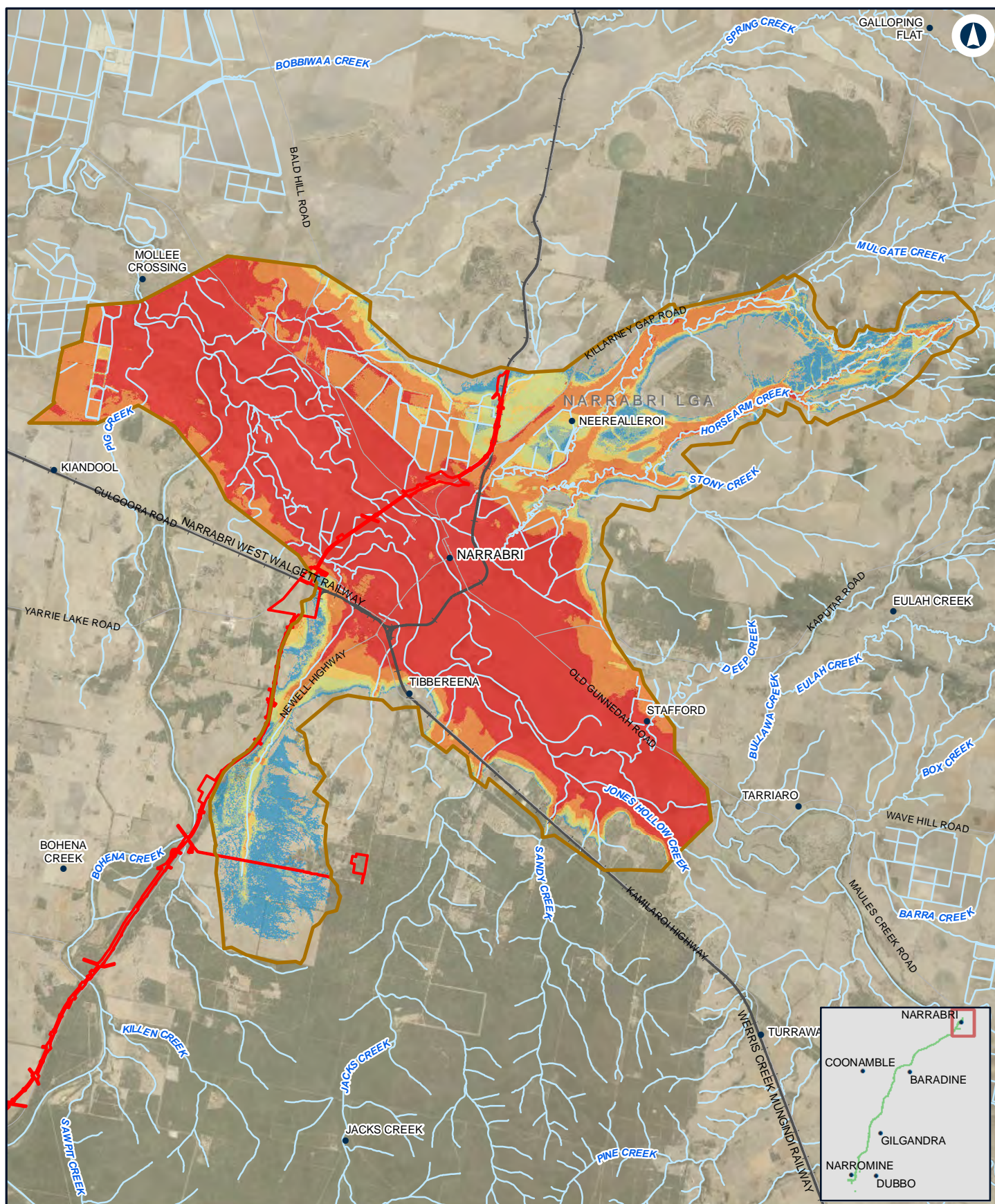
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- 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 - PMF - Narrabri

Appendix D - Figure 4.8n

0 2 4
Km

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