

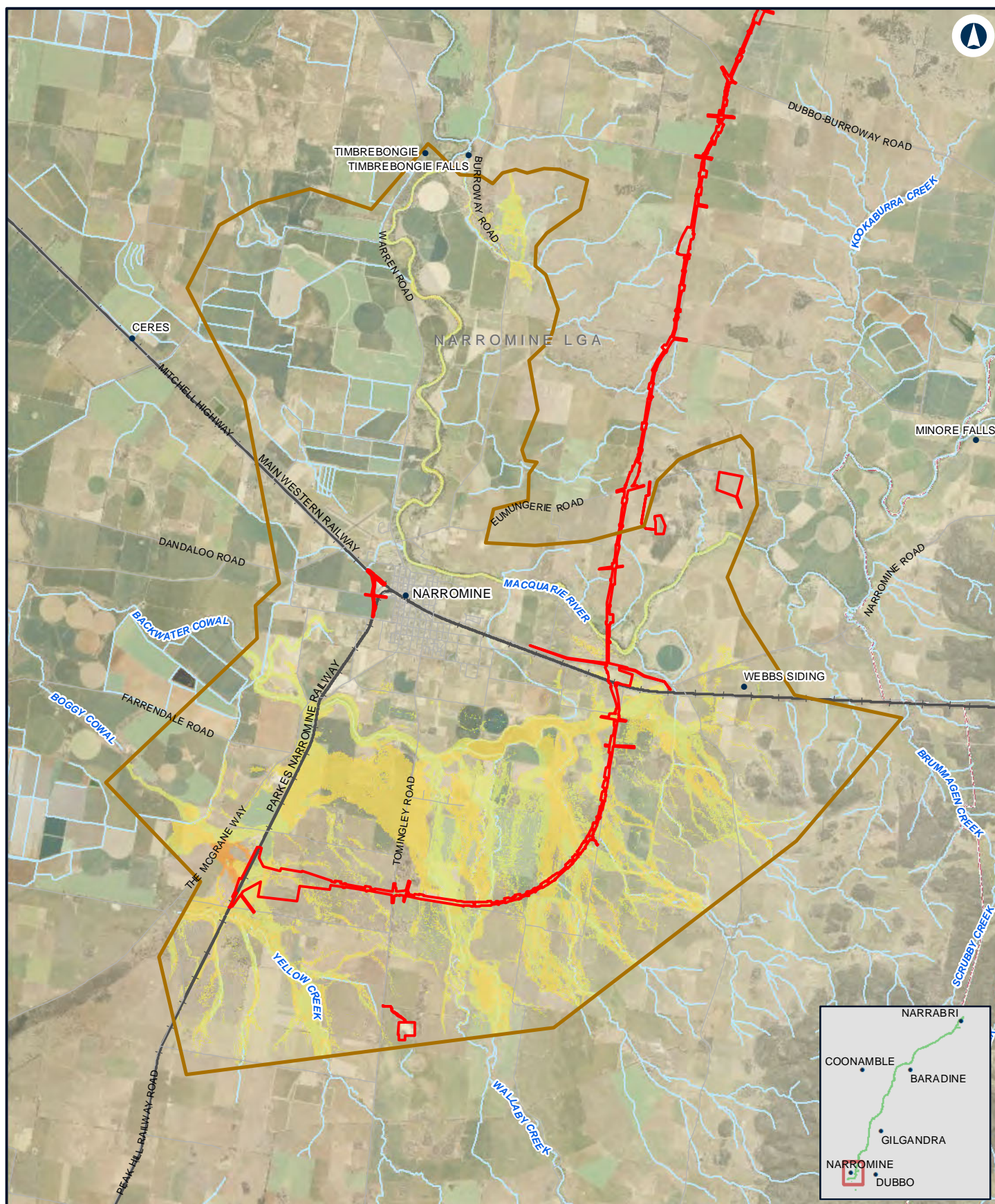
TECHNICAL REPORT 03

Updated flooding and hydrology assessment

Appendix G2 Operational— change in flow velocity

NARROMINE TO NARRABRI PROJECT





0 1.5 3 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/01/2022
Author: JacobsGHD

Paper: A4
Scale: 1:140,000

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

LEGEND

The proposal site

Model boundary

Change in Flood Velocity

> 1 m/s decrease

0.5 m/s - 1 m/s decrease

0.1 m/s - 0.5 m/s decrease

0 m/s - 0.1 m/s decrease

0 m/s - 0.1 m/s increase

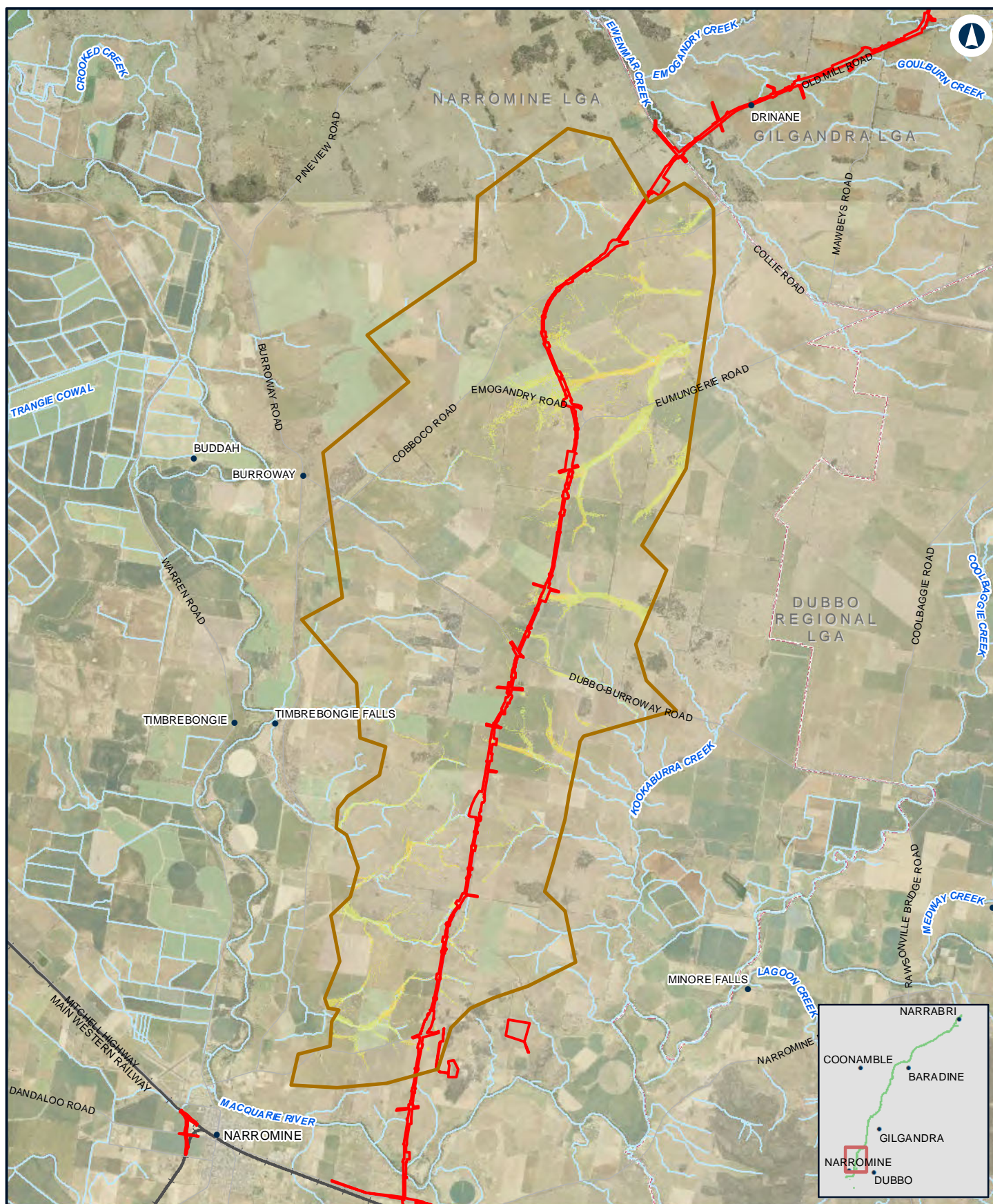
0.1 m/s - 0.5 m/s increase

0.5 m/s - 1 m/s increase

> 1 m/s increase

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

Change in velocity - 20% AEP - N2N14

Appendix G - Figure 2.1b

0 2 4 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/01/2022
Author: JacobsGHD

Paper: A4
Scale: 1:150,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

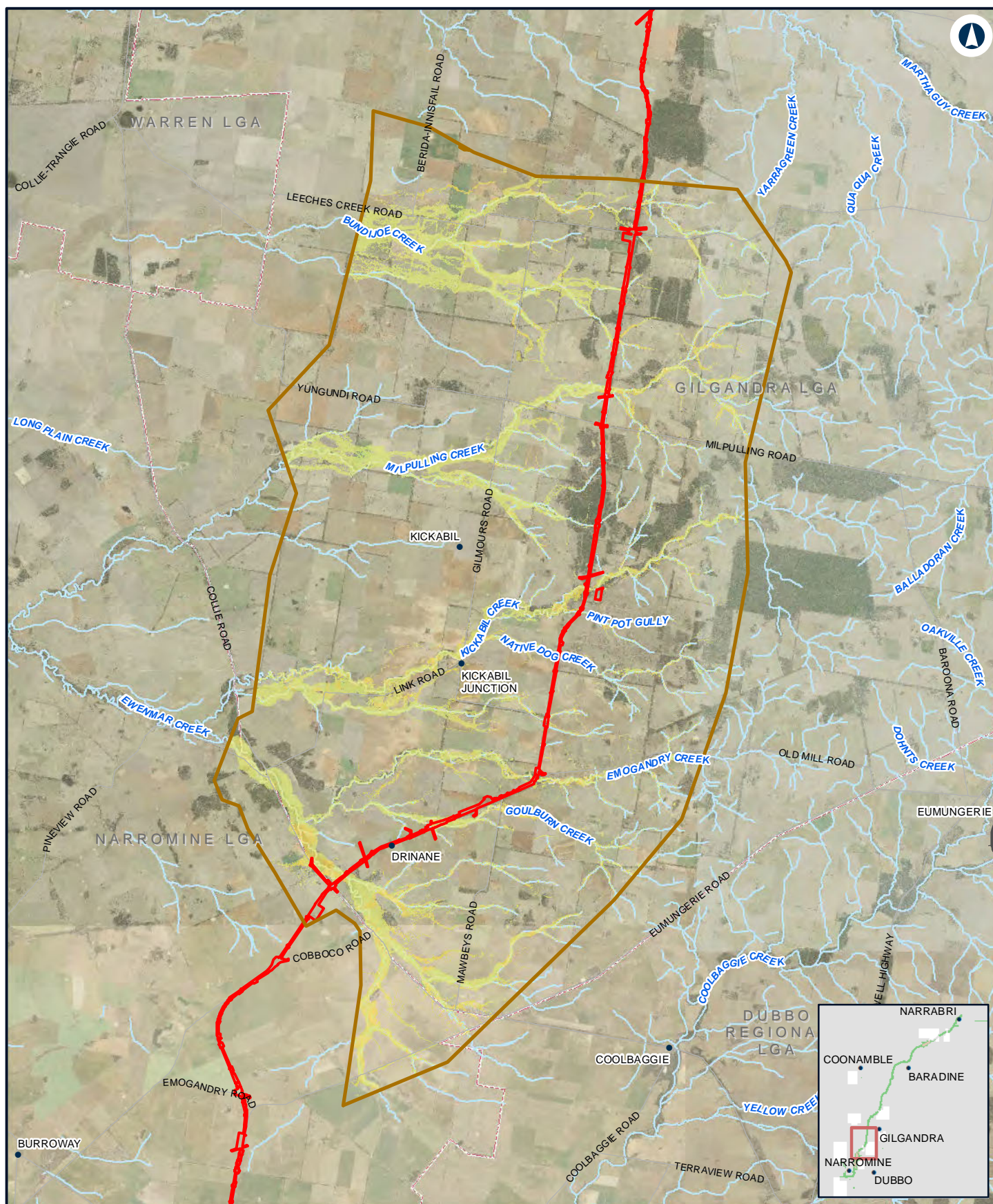
 0.1 m/s - 0.5 m/s increase

 0.5 m/s - 1 m/s increase

 > 1 m/s increase

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Change in velocity - 20% AEP - N2N13

Appendix G - Figure 2.1c

0 2.5 5 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/01/2022
Author: JacobsGHD

Paper: A4
Scale: 1:180,000

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

LEGEND

- The proposal site
- Model boundary

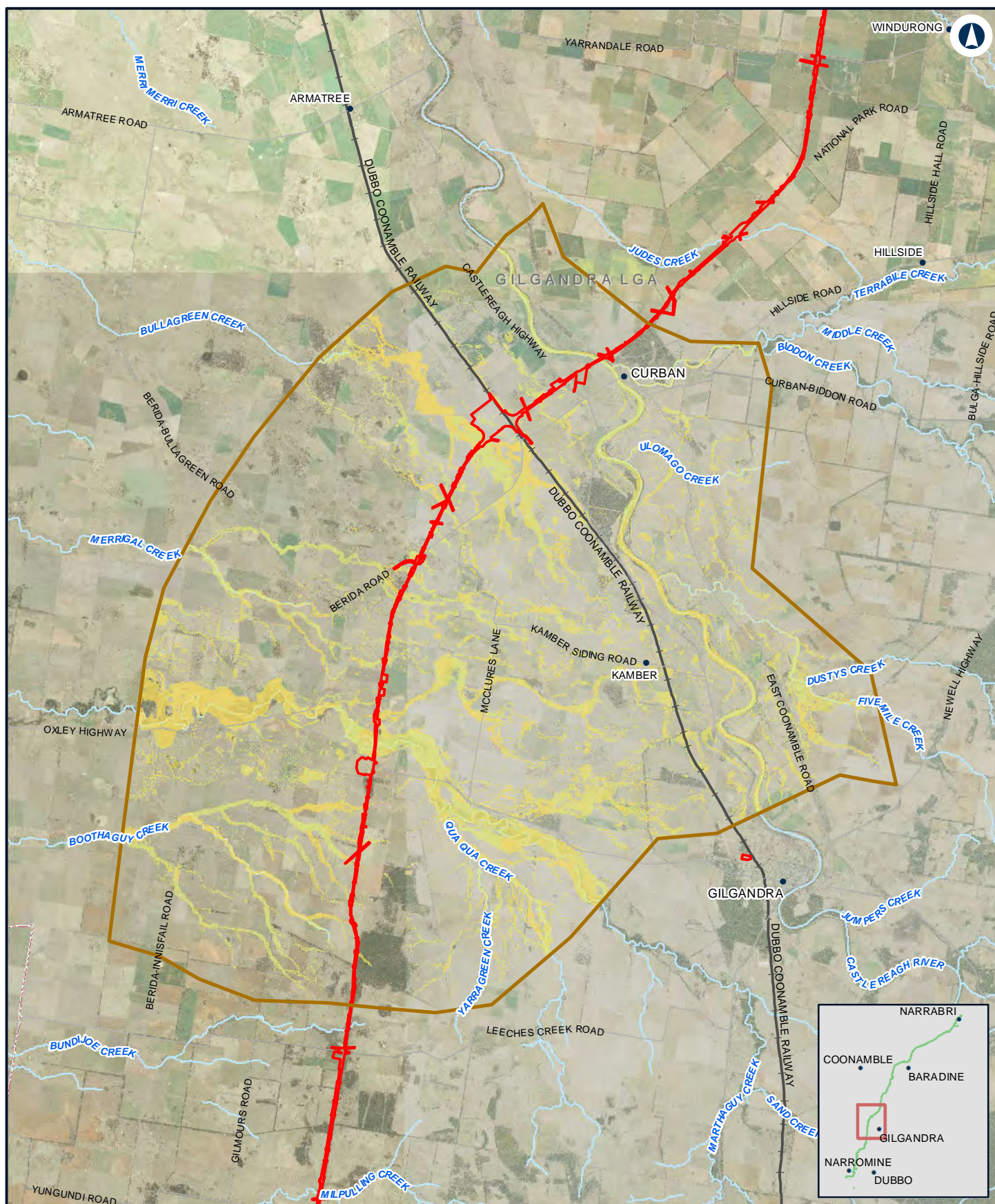
Change in Flood Velocity

- > 1 m/s decrease
- 0.5 m/s - 1 m/s decrease
- 0.1 m/s - 0.5 m/s decrease
- 0 m/s - 0.1 m/s decrease

- 0 m/s - 0.1 m/s increase
- 0.1 m/s - 0.5 m/s increase
- 0.5 m/s - 1 m/s increase
- > 1 m/s increase

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Change in velocity - 20% AEP - N2N11N12

Appendix G - Figure 2.1d

0 2.5 5
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/01/2022
Author: JacobsGHD

Paper: A4
Scale: 1:200,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

> 1 m/s decrease

0.5 m/s - 1 m/s decrease

0.1 m/s - 0.5 m/s decrease

0 m/s - 0.1 m/s decrease

0 m/s - 0.1 m/s increase

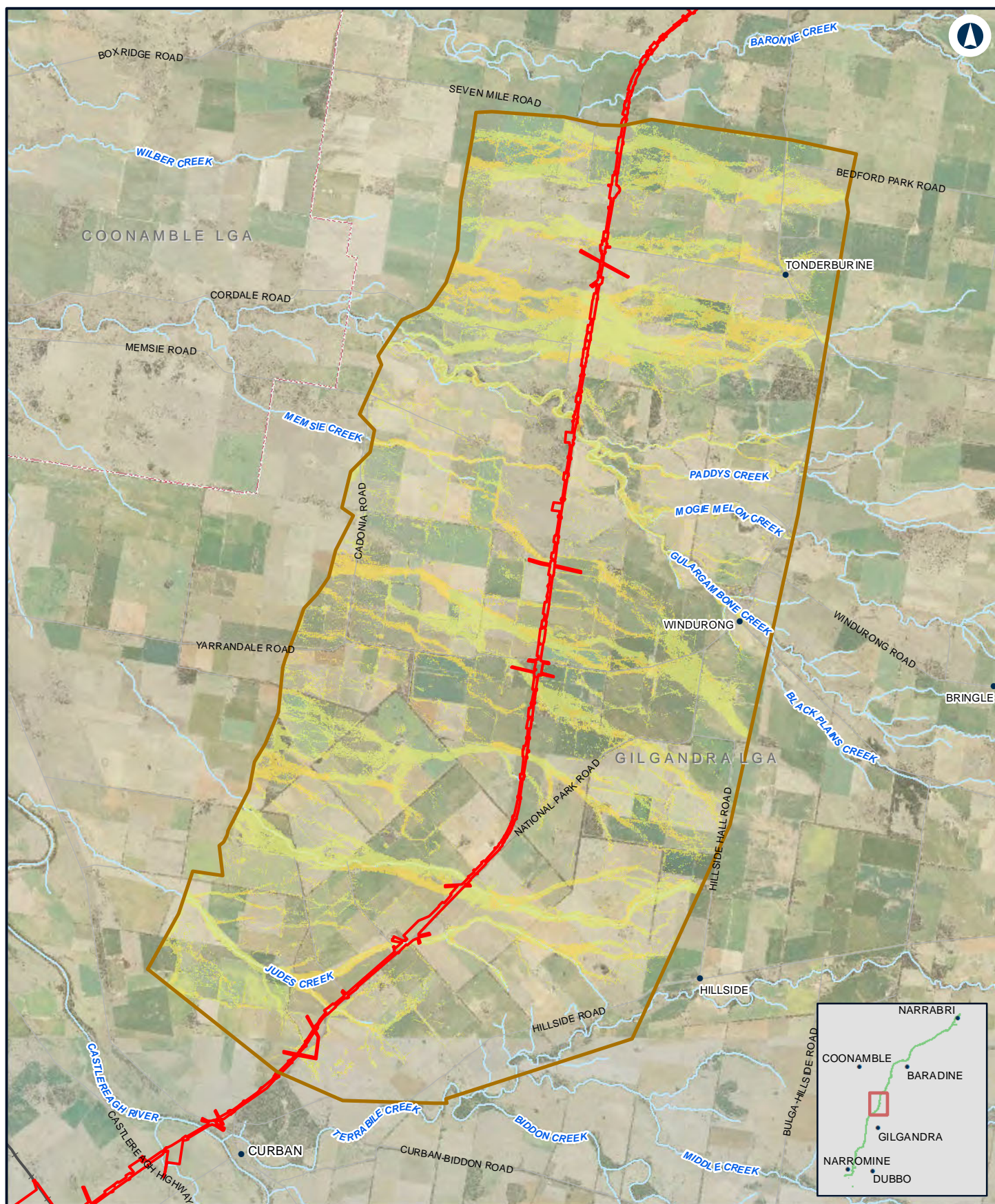
0.1 m/s - 0.5 m/s increase

0.5 m/s - 1 m/s increase

> 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 20% AEP - N2N10

Appendix G - Figure 2.1e

0 1.5 3
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/01/2022
Author: JacobsGHD

Paper: A4
Scale: 1:130,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

 0.1 m/s - 0.5 m/s increase

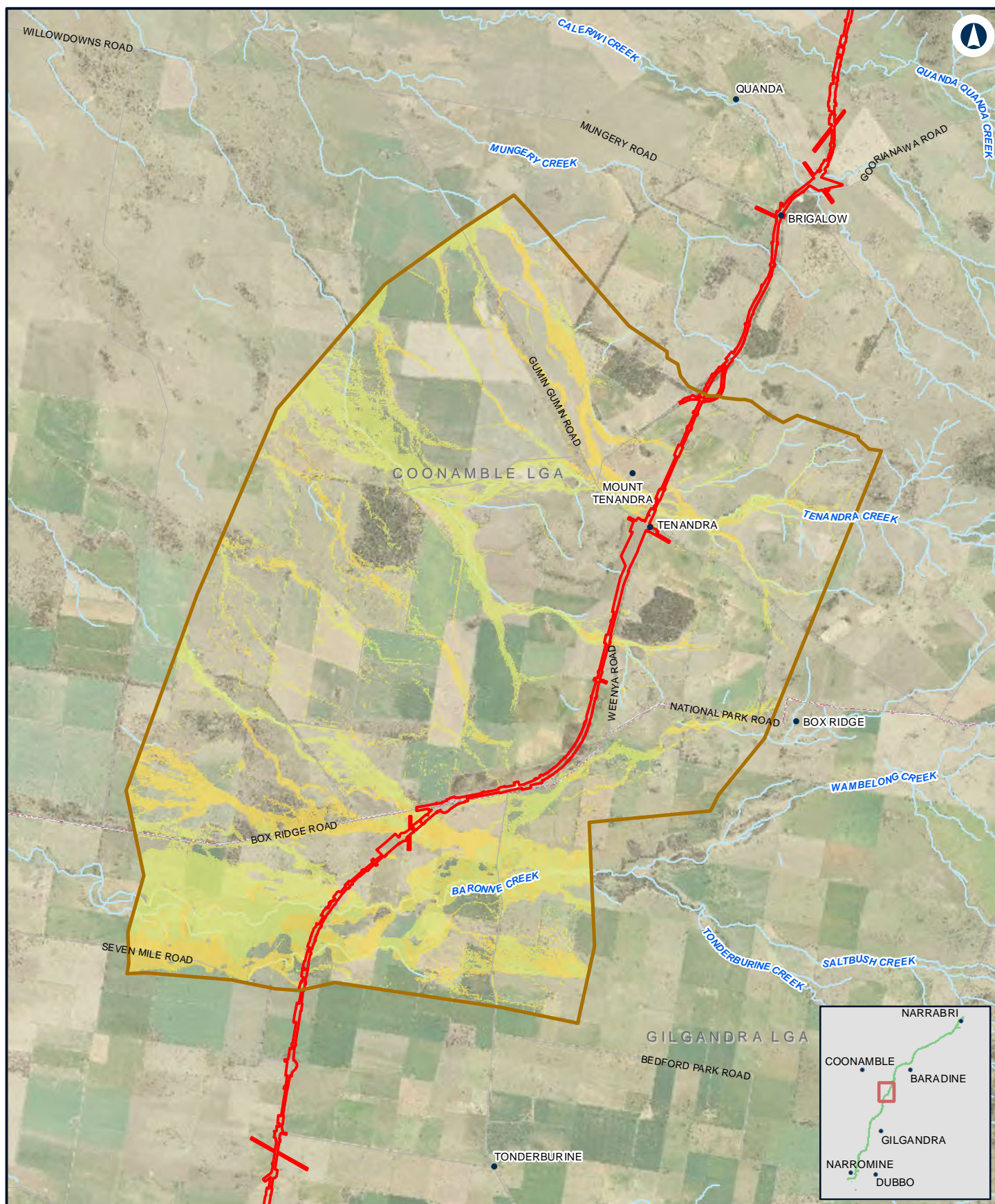
 0.5 m/s - 1 m/s increase

 > 1 m/s increase

**INLAND
RAIL**

ARTC

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NARROMINE TO NARRABRI

Change in velocity - 20% AEP - N2N9

Appendix G - Figure 2.1f

0 1.5 3 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/01/2022
Author: JacobsGHD

Paper: A4
Scale: 1:110,000

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

LEGEND

- The proposal site
- Model boundary

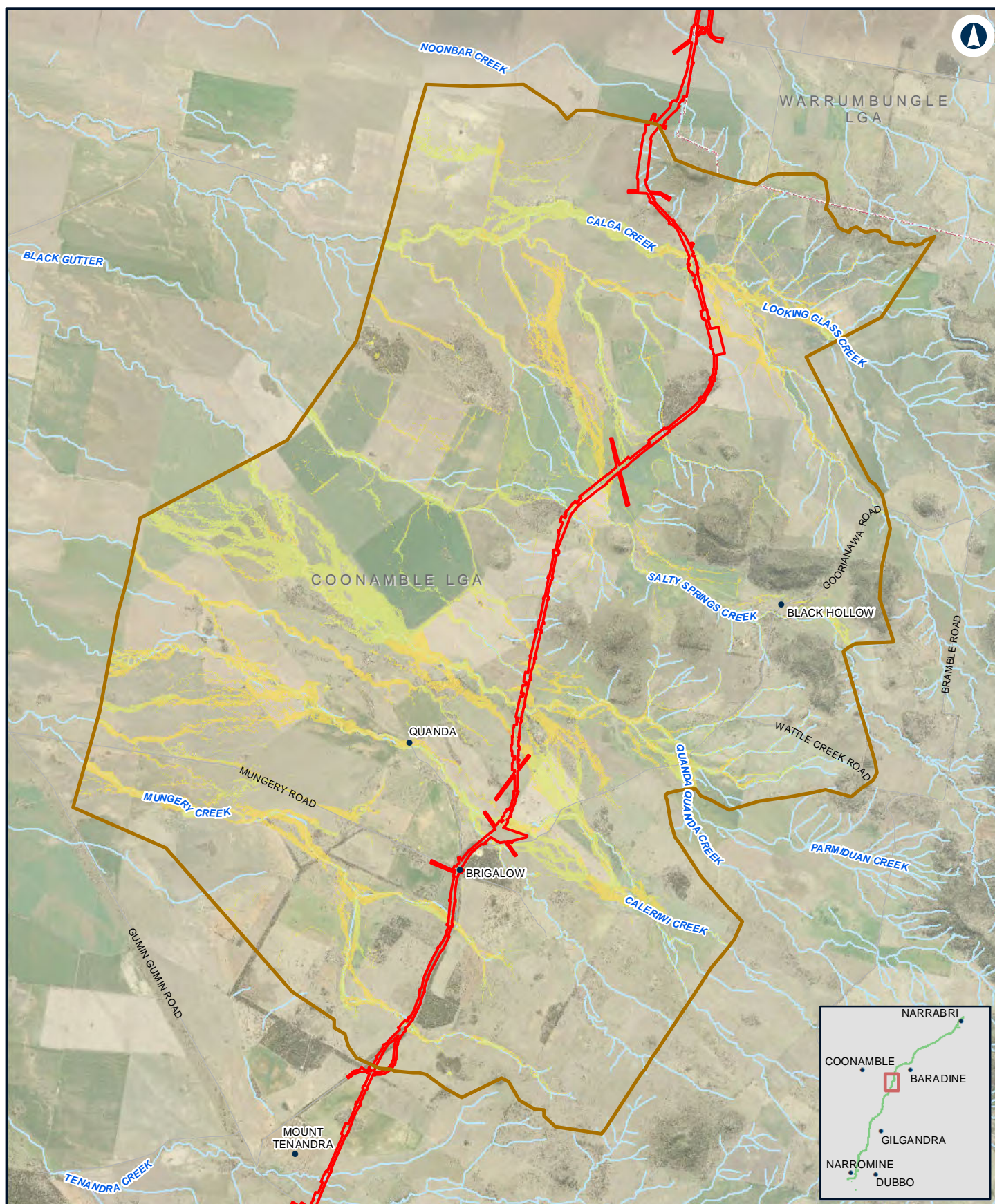
Change in Flood Velocity

- > 1 m/s decrease
- 0.5 m/s - 1 m/s decrease
- 0.1 m/s - 0.5 m/s decrease
- 0 m/s - 0.1 m/s decrease

- 0 m/s - 0.1 m/s increase
- 0.1 m/s - 0.5 m/s increase
- 0.5 m/s - 1 m/s increase
- > 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 20% AEP - N2N8

Appendix G - Figure 2.1g

0 1 2 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/01/2022
Author: JacobsGHD

Paper: A4
Scale: 1:100,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

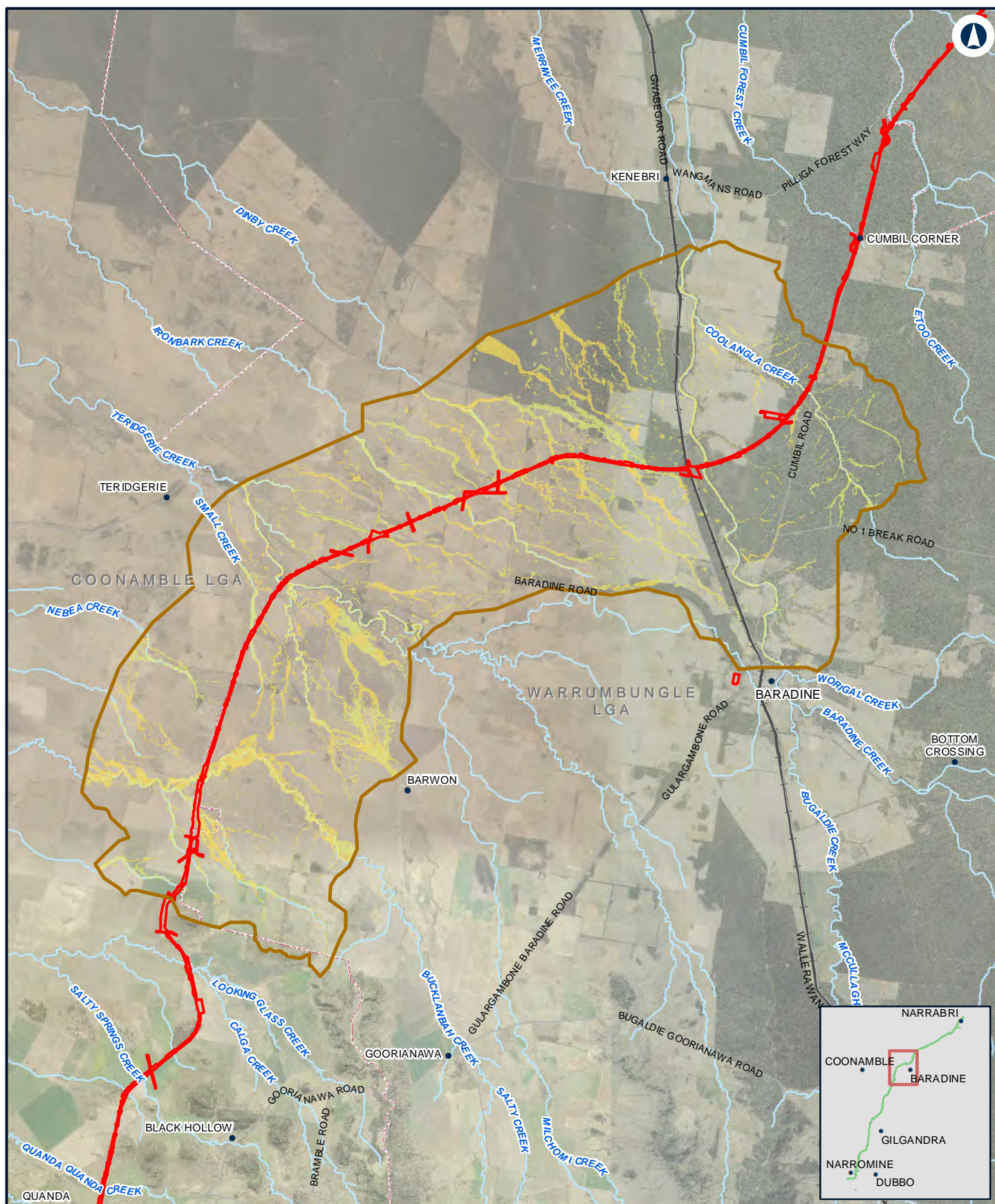
 0.1 m/s - 0.5 m/s increase

 0.5 m/s - 1 m/s increase

 > 1 m/s increase

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0 2.5 5 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/01/2022
Author: JacobsGHD

Paper: A4
Scale: 1:200,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

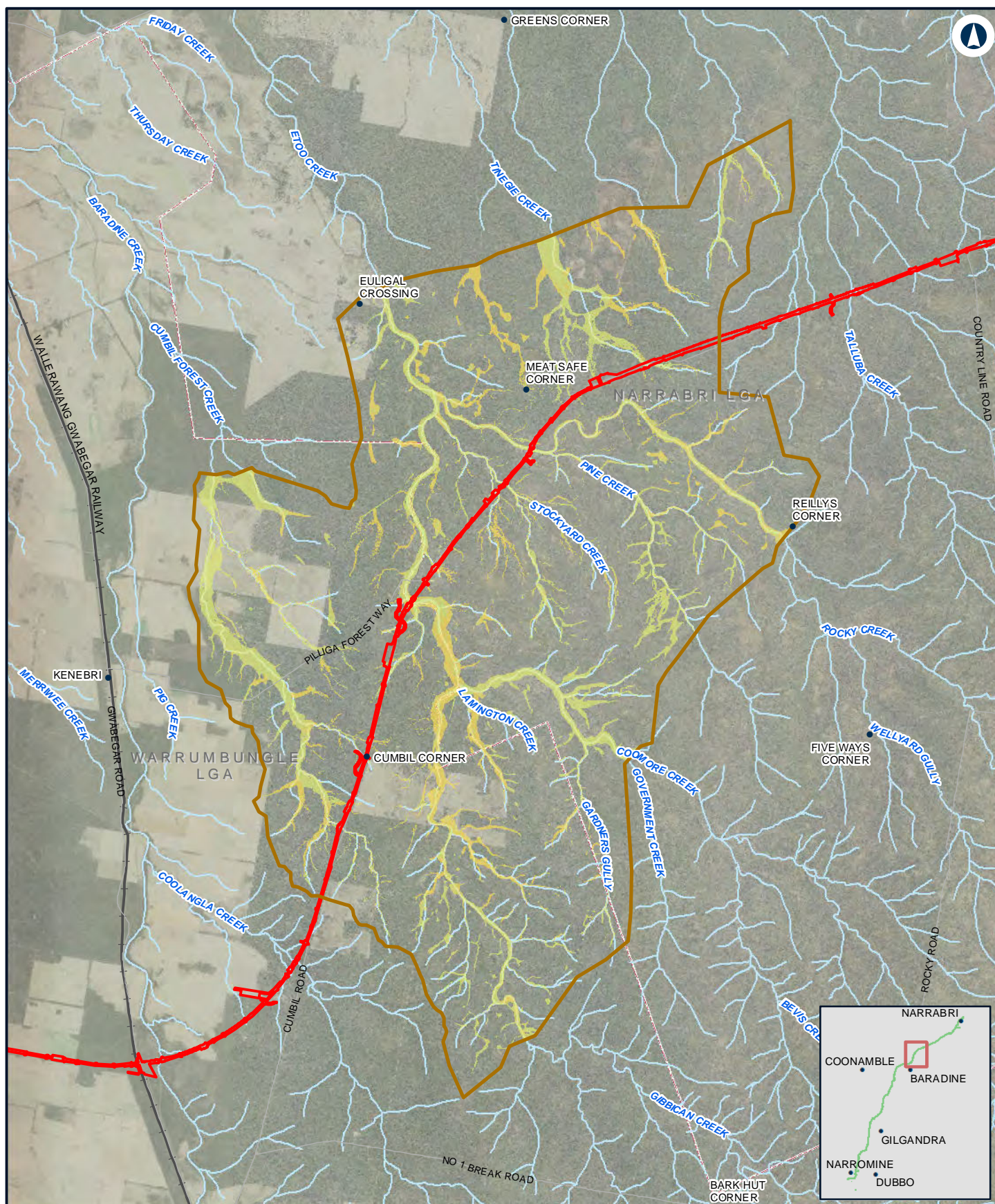
 0.1 m/s - 0.5 m/s increase

 0.5 m/s - 1 m/s increase

 > 1 m/s increase

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0 2 4 Km

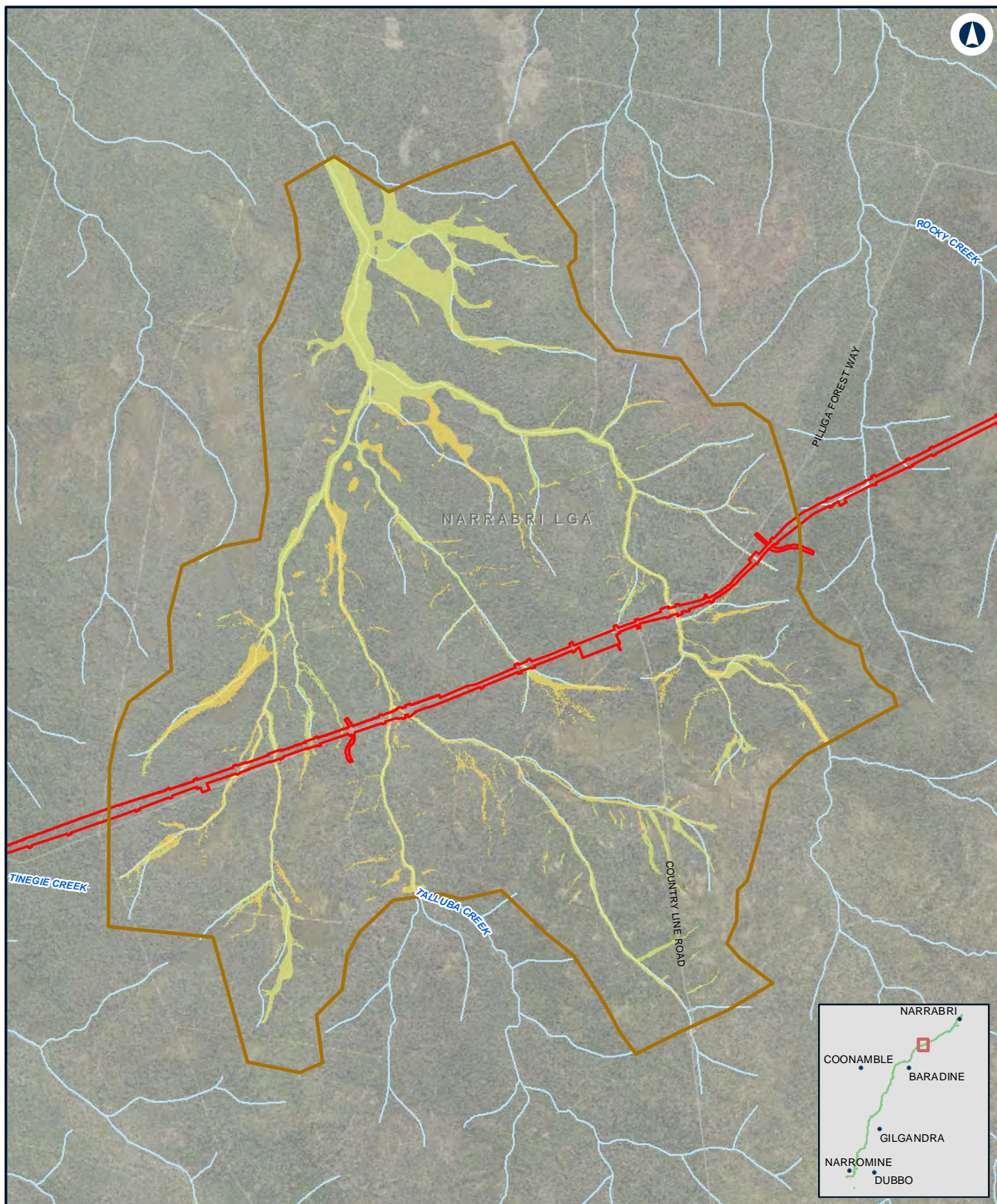
Coordinate System: GDA 1994 MGA Zone 55

ARTC makes no representation or warranty and assumes no duty of care or other responsibility to any party as to the completeness, accuracy or suitability of the information contained in this GIS map. The GIS map has been prepared from material provided to ARTC by an external source and ARTC has not taken any steps to verify the completeness, accuracy or suitability of that material. 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: 10/01/2022
Author: JacobsGHD

Paper: A4
Scale: 1:150,000

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



NARROMINE TO NARRABRI

Change in velocity - 20% AEP - N2N5

Appendix G - Figure 2.1j

0 1 2 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/01/2022
Author: JacobsGHD

Paper: A4
Scale: 1:70,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

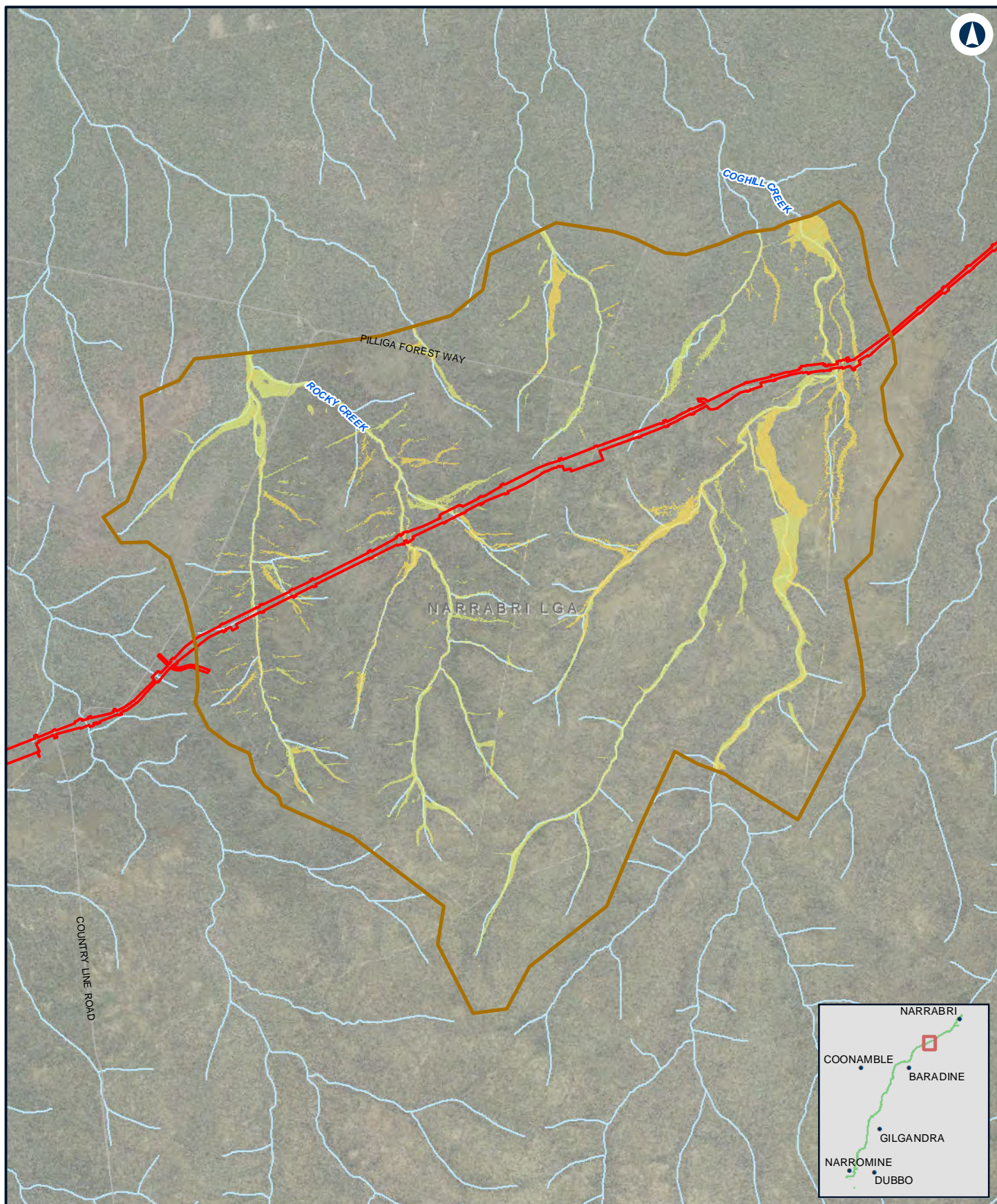
 0.1 m/s - 0.5 m/s increase

 0.5 m/s - 1 m/s increase

 > 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 20% AEP - N2N4

Appendix G - Figure 2.1k

0 1 2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/01/2022
Author: JacobsGHD

Paper: A4
Scale: 1:80,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

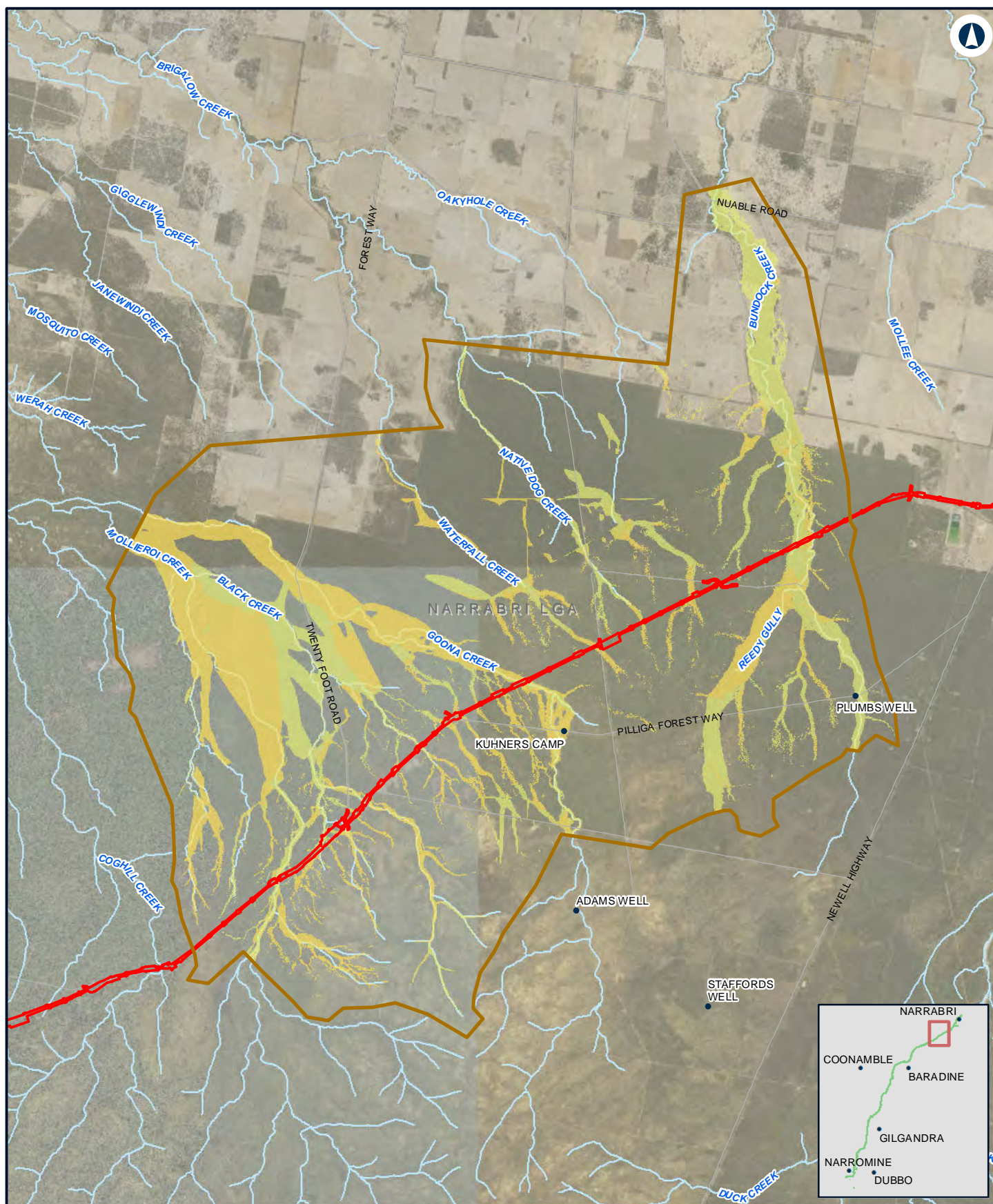
 0.1 m/s - 0.5 m/s increase

 0.5 m/s - 1 m/s increase

 > 1 m/s increase

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Change in velocity - 20% AEP - N2N23

Appendix G - Figure 2.1I

0 1.5 3
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/01/2022
Author: JacobsGHD

Paper: A4
Scale: 1:140,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

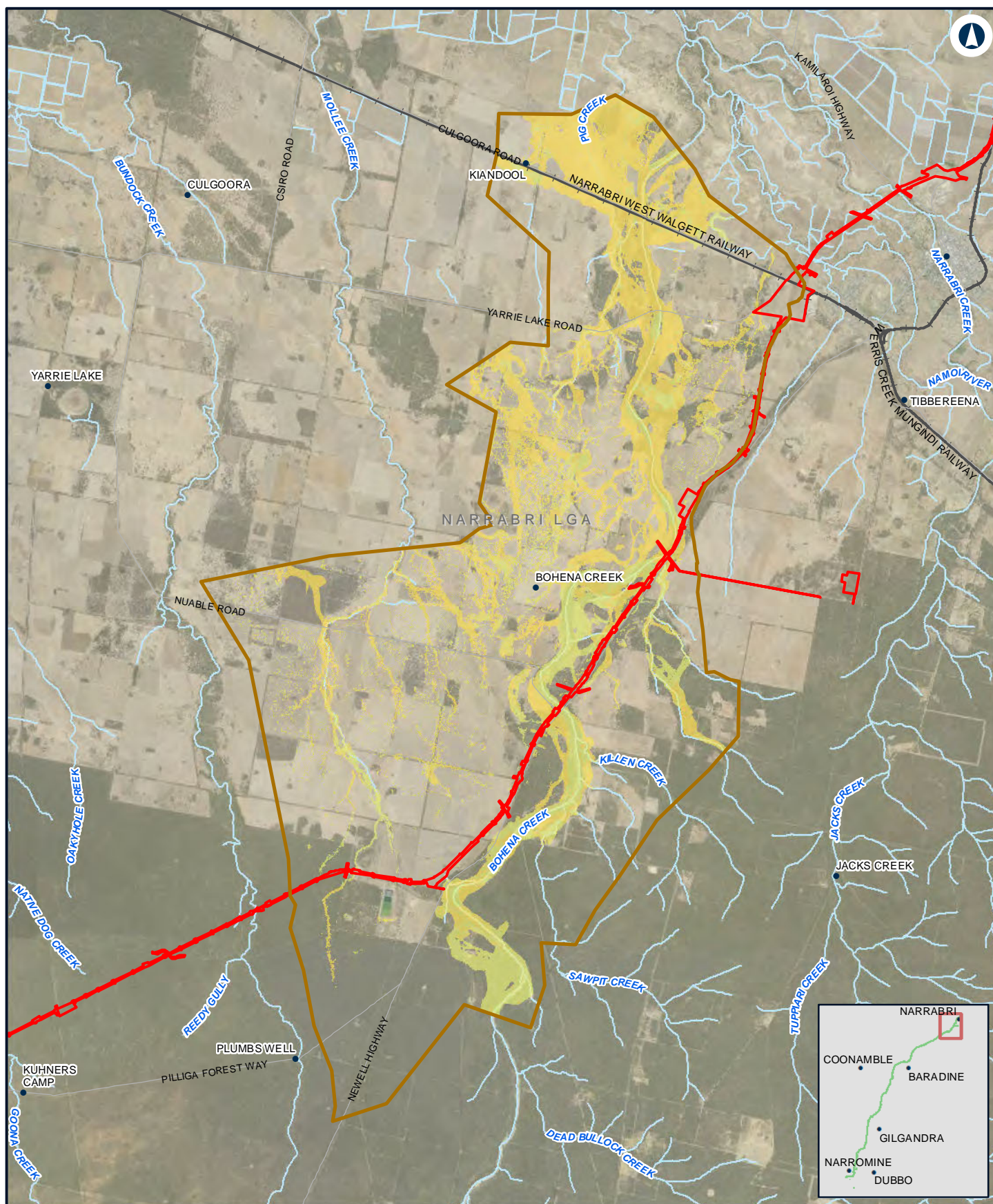
 0.1 m/s - 0.5 m/s increase

 0.5 m/s - 1 m/s increase

 > 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 20% AEP - N2N1

Appendix G - Figure 2.1m

0 2 4 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/01/2022
Author: JacobsGHD

Paper: A4
Scale: 1:150,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

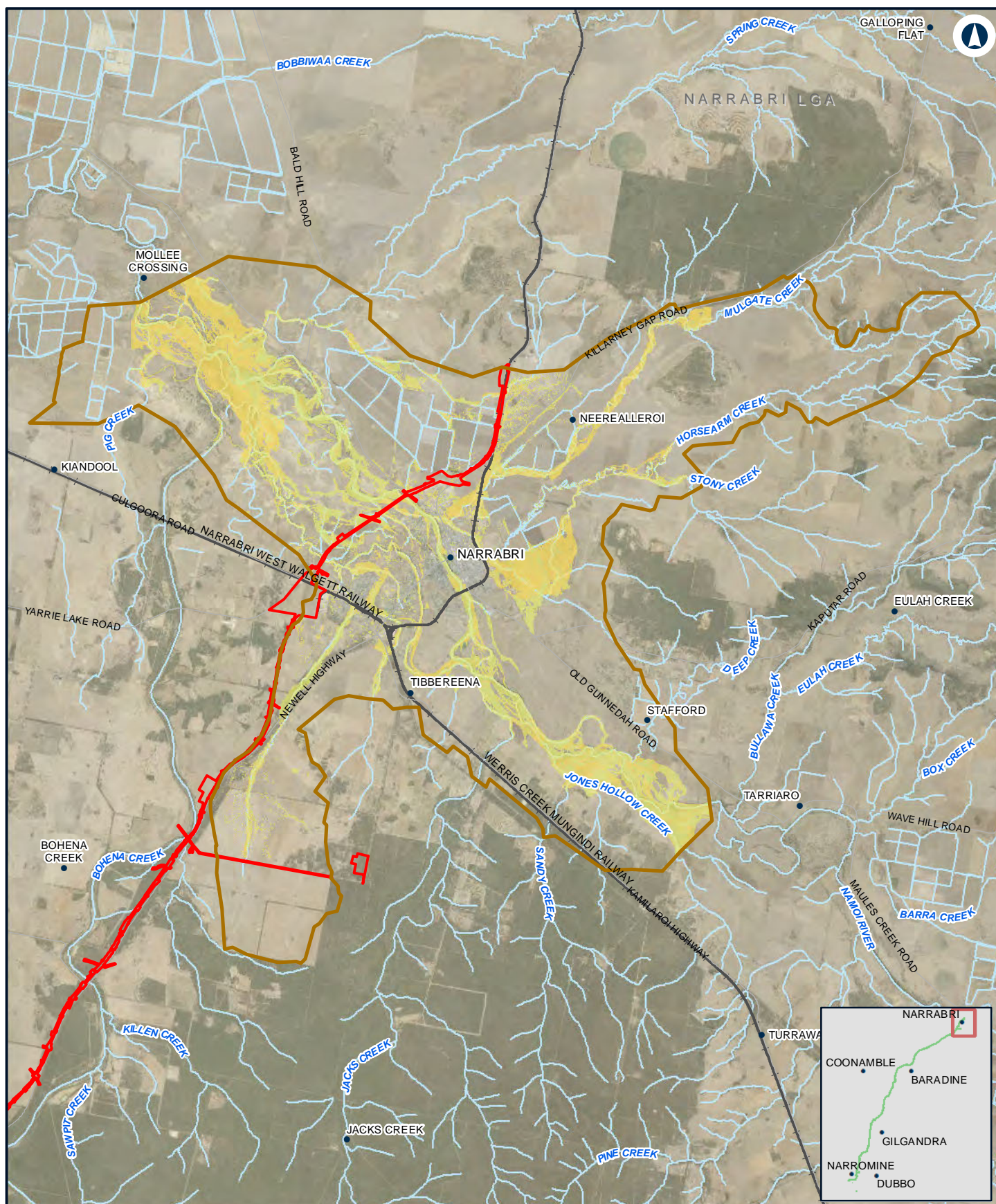
 0.1 m/s - 0.5 m/s increase

 0.5 m/s - 1 m/s increase

 > 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 20% AEP - Narrabri

Appendix G - Figure 2.1n

0 2 4
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/01/2022

Paper: A4

Author: JacobsGHD

Scale: 1:160,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

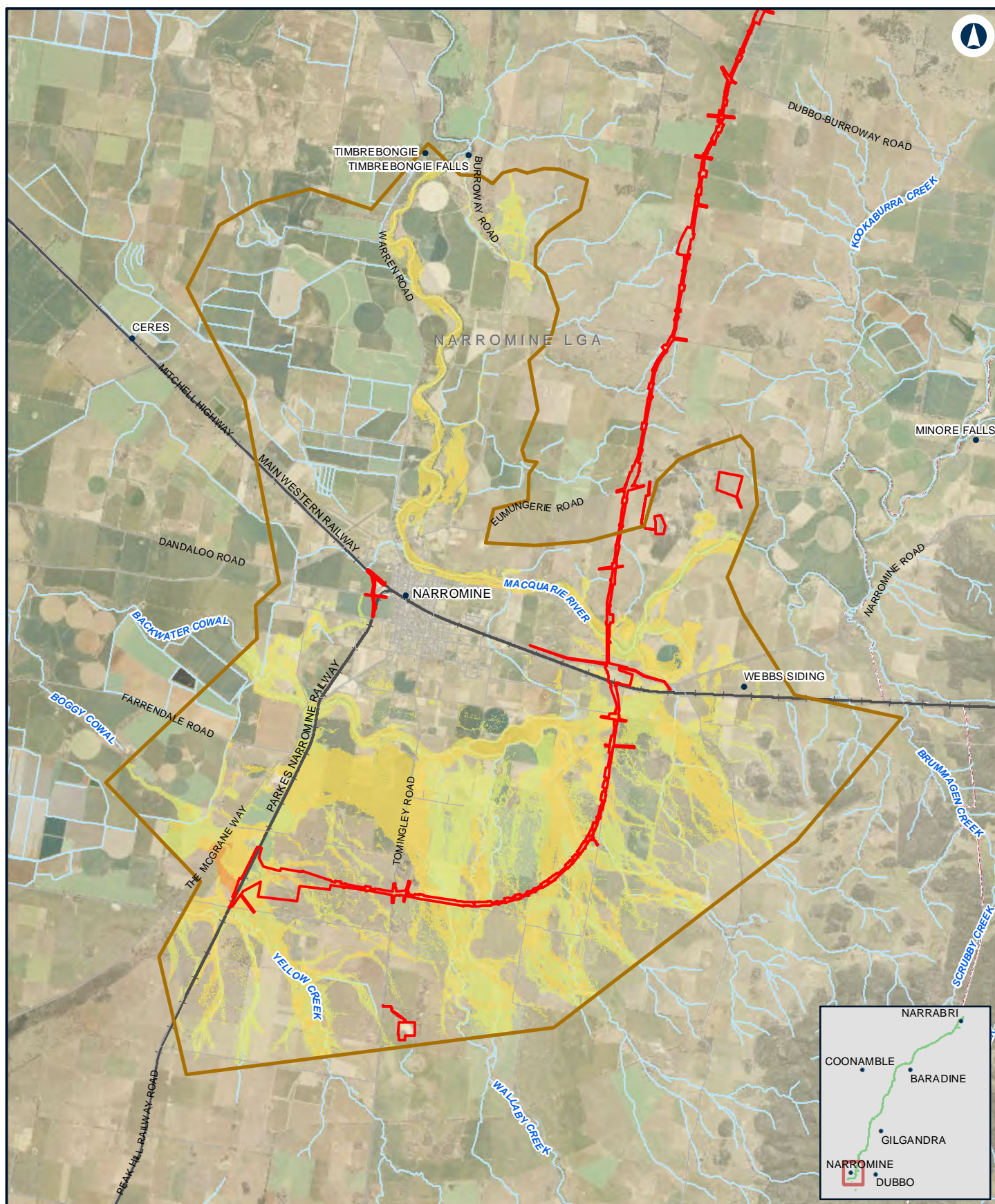
 0.1 m/s - 0.5 m/s increase

 0.5 m/s - 1 m/s increase

 > 1 m/s increase

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0 1.5 3 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/01/2022
Author: JacobsGHD

Paper: A4
Scale: 1:140,000

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

LEGEND

The proposal site

Model boundary

Change in Flood Velocity

> 1 m/s decrease

0.5 m/s - 1 m/s decrease

0.1 m/s - 0.5 m/s decrease

0 m/s - 0.1 m/s decrease

0 m/s - 0.1 m/s increase

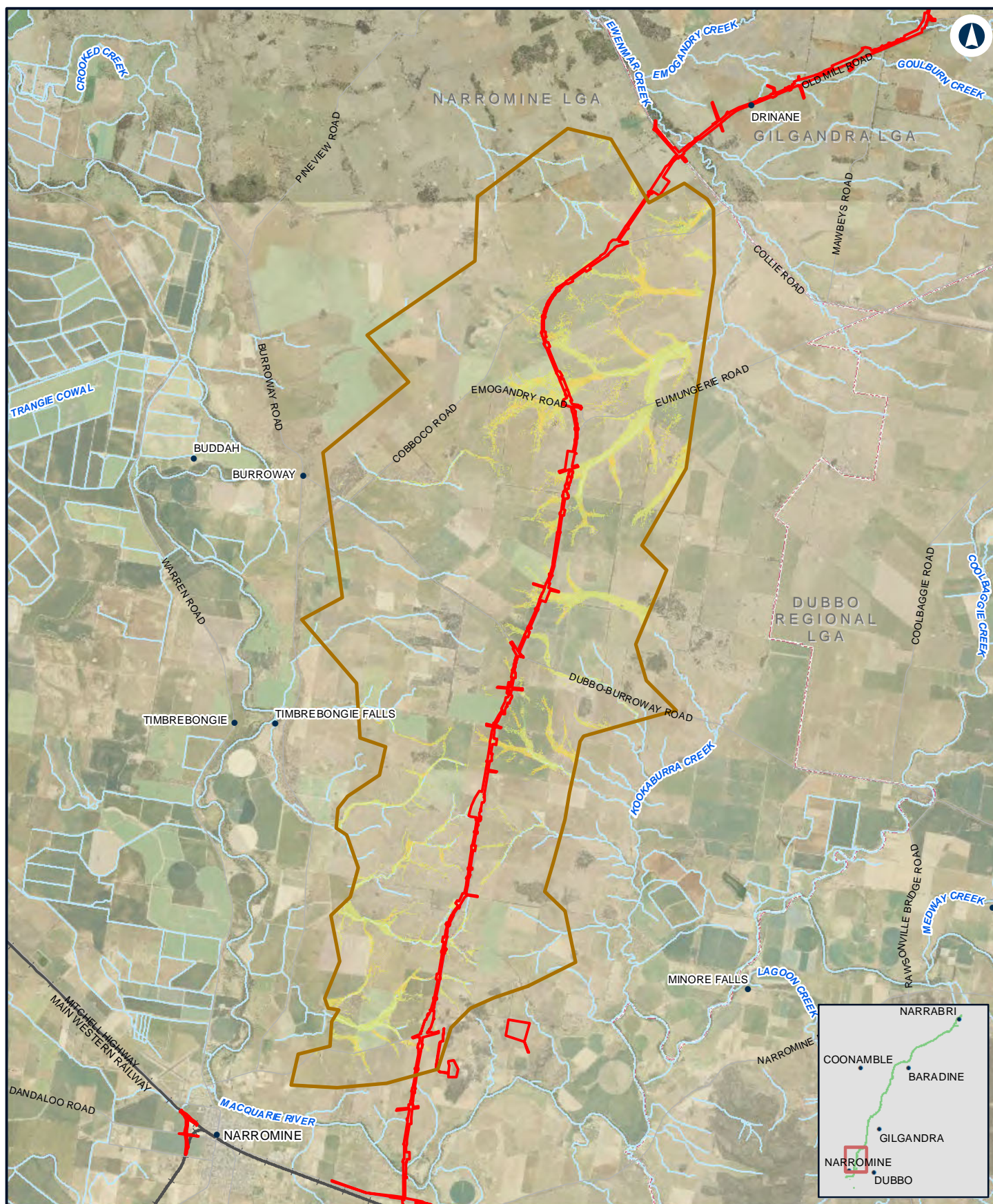
0.1 m/s - 0.5 m/s increase

0.5 m/s - 1 m/s increase

> 1 m/s increase

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Change in velocity - 5% AEP - N2N14

Appendix G - Figure 2.2b

0 2 4 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/01/2022
Author: JacobsGHD

Paper: A4
Scale: 1:150,000

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

LEGEND

The proposal site

Model boundary

Change in Flood Velocity

> 1 m/s decrease

0.5 m/s - 1 m/s decrease

0.1 m/s - 0.5 m/s decrease

0 m/s - 0.1 m/s decrease

0 m/s - 0.1 m/s increase

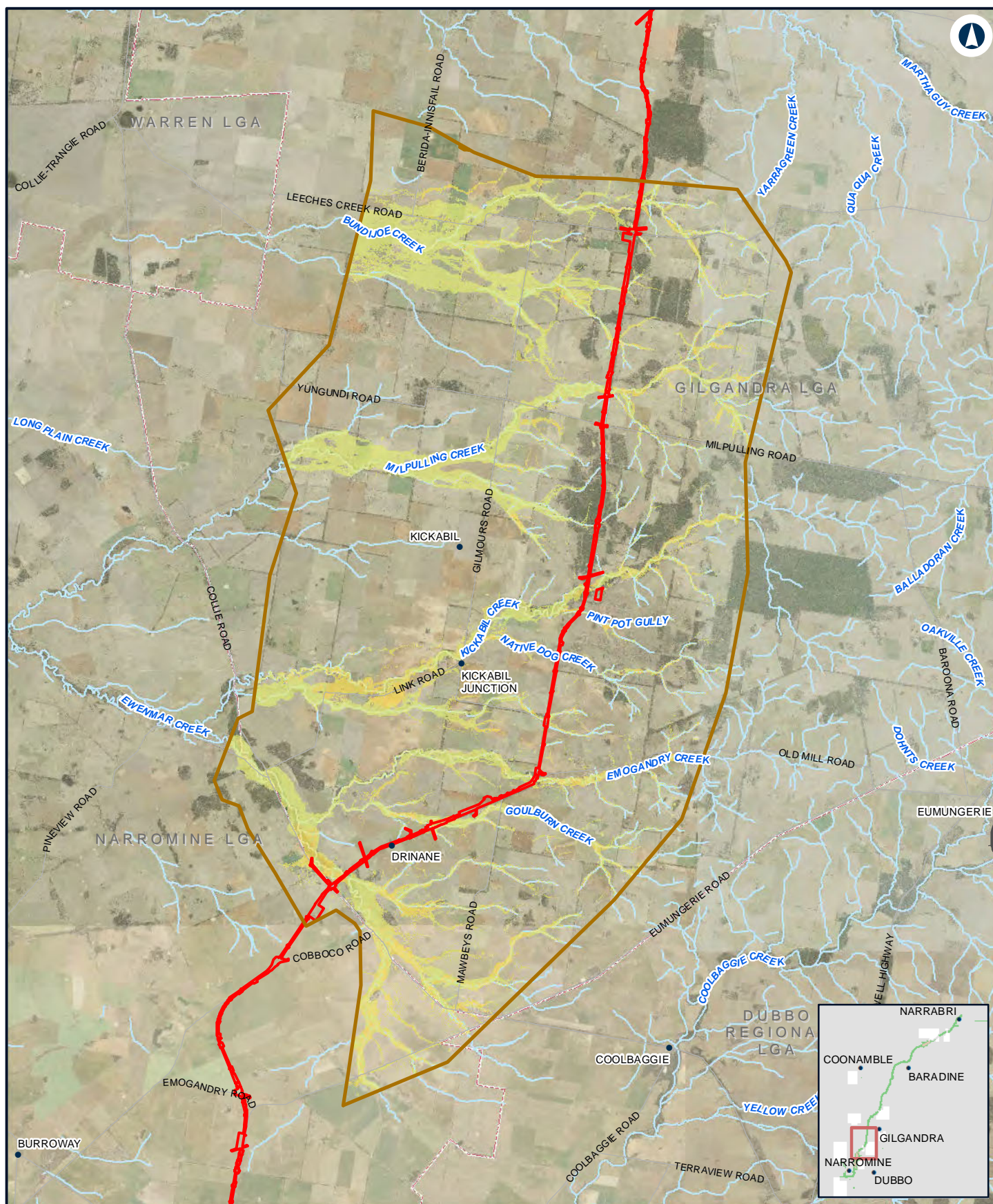
0.1 m/s - 0.5 m/s increase

0.5 m/s - 1 m/s increase

> 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 5% AEP - N2N13

Appendix G - Figure 2.2c

0 2.5 5 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/01/2022
Author: JacobsGHD

Paper: A4
Scale: 1:180,000

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

LEGEND

- The proposal site
- Model boundary

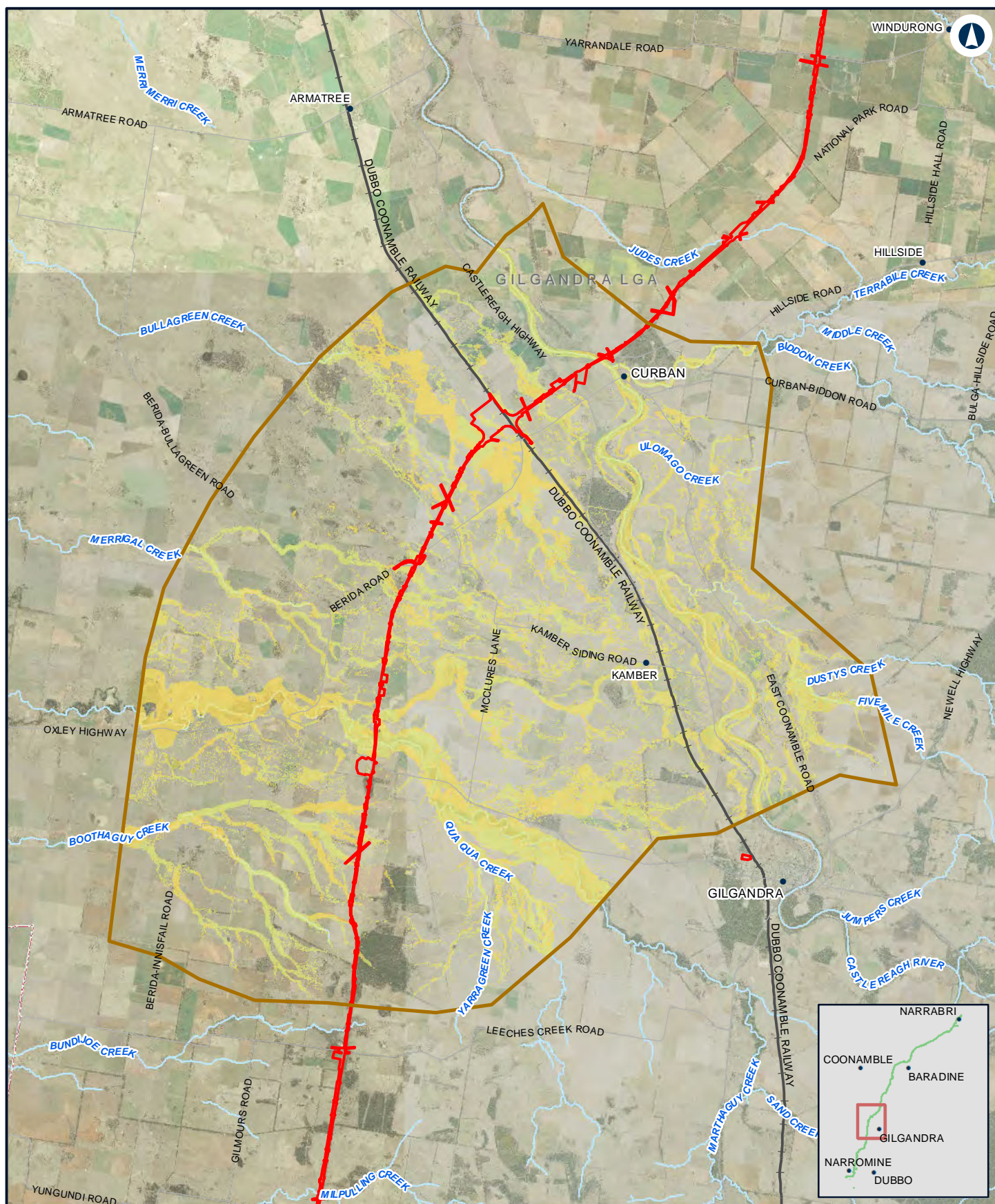
Change in Flood Velocity

- > 1 m/s decrease
- 0.5 m/s - 1 m/s decrease
- 0.1 m/s - 0.5 m/s decrease
- 0 m/s - 0.1 m/s decrease

- 0 m/s - 0.1 m/s increase
- 0.1 m/s - 0.5 m/s increase
- 0.5 m/s - 1 m/s increase
- > 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 5% AEP - N2N11N12

Appendix G - Figure 2.2d

0 2.5 5 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/01/2022
Author: JacobsGHD

Scale: 1:200,000

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

LEGEND

The proposal site

Model boundary

Change in Flood Velocity

> 1 m/s decrease

0.5 m/s - 1 m/s decrease

0.1 m/s - 0.5 m/s decrease

0 m/s - 0.1 m/s decrease

0 m/s - 0.1 m/s increase

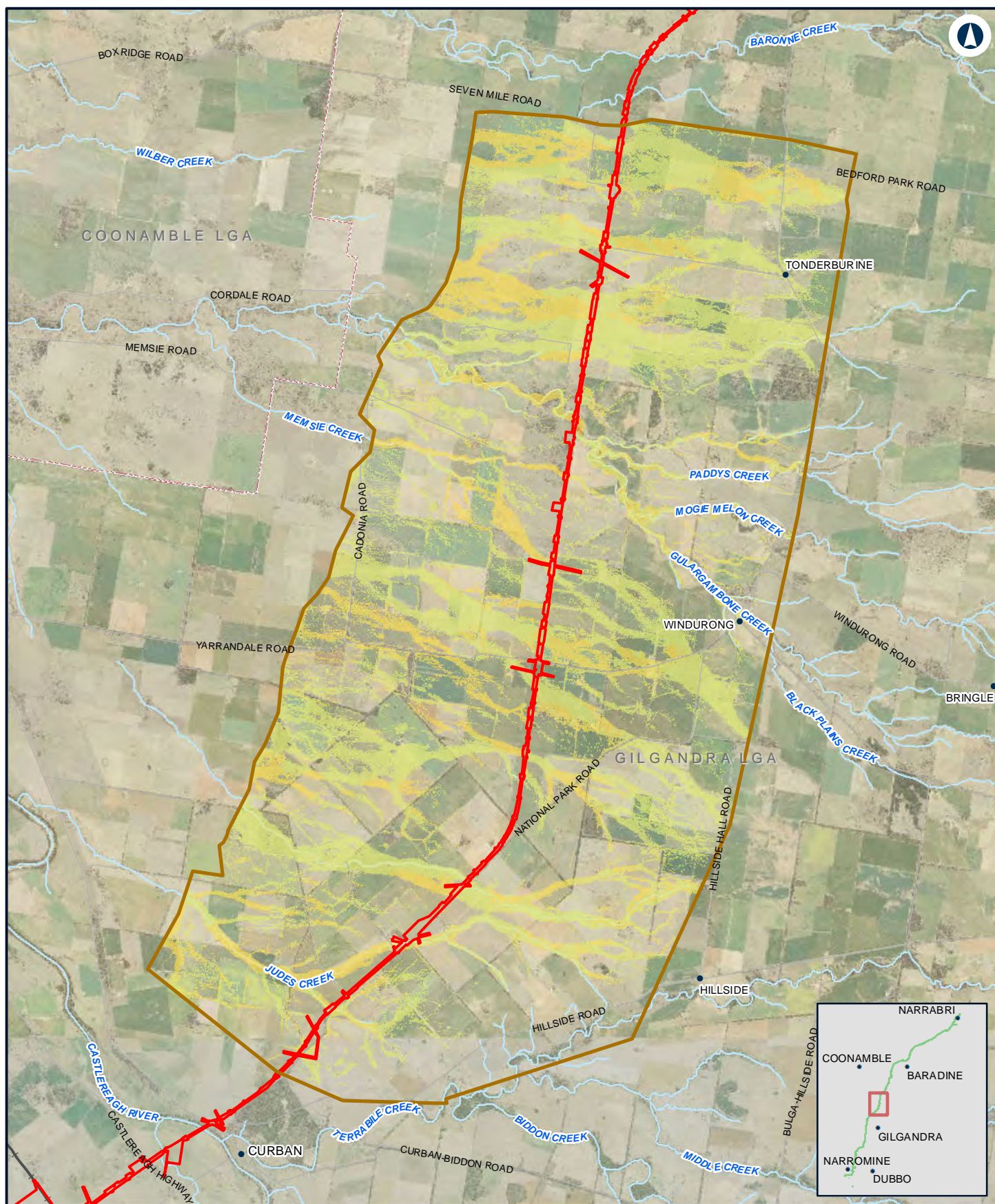
0.1 m/s - 0.5 m/s increase

0.5 m/s - 1 m/s increase

> 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 5% AEP - N2N10

Appendix G - Figure 2.2e

0 1.5 3
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/01/2022
Author: JacobsGHD

Paper: A4
Scale: 1:130,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

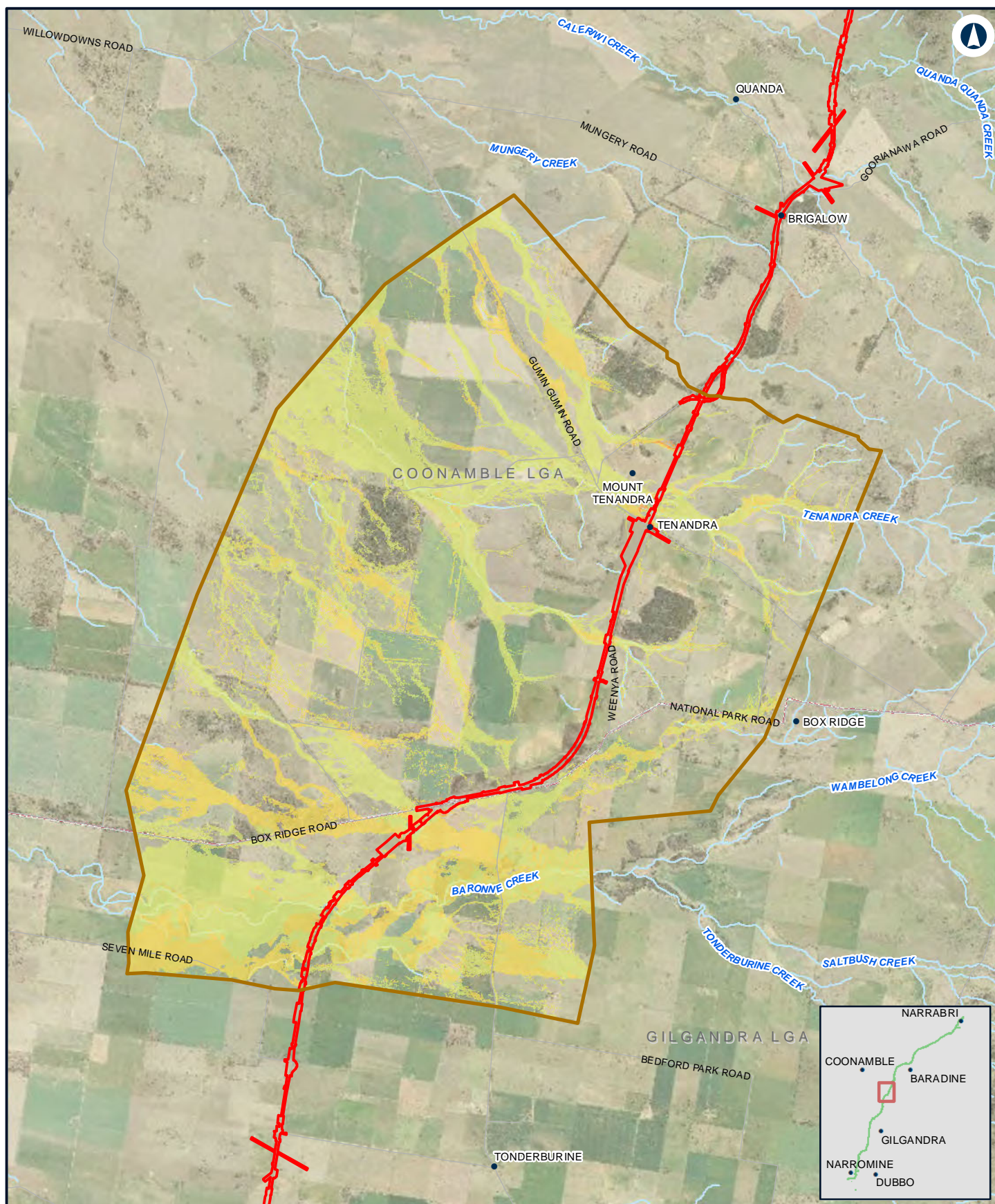
 0.1 m/s - 0.5 m/s increase

 0.5 m/s - 1 m/s increase

 > 1 m/s increase

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

Change in velocity - 5% AEP - N2N9

Appendix G - Figure 2.2f

0 1.5 3 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/01/2022
Author: JacobsGHD

Paper: A4
Scale: 1:110,000

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

LEGEND

- The proposal site
- Model boundary

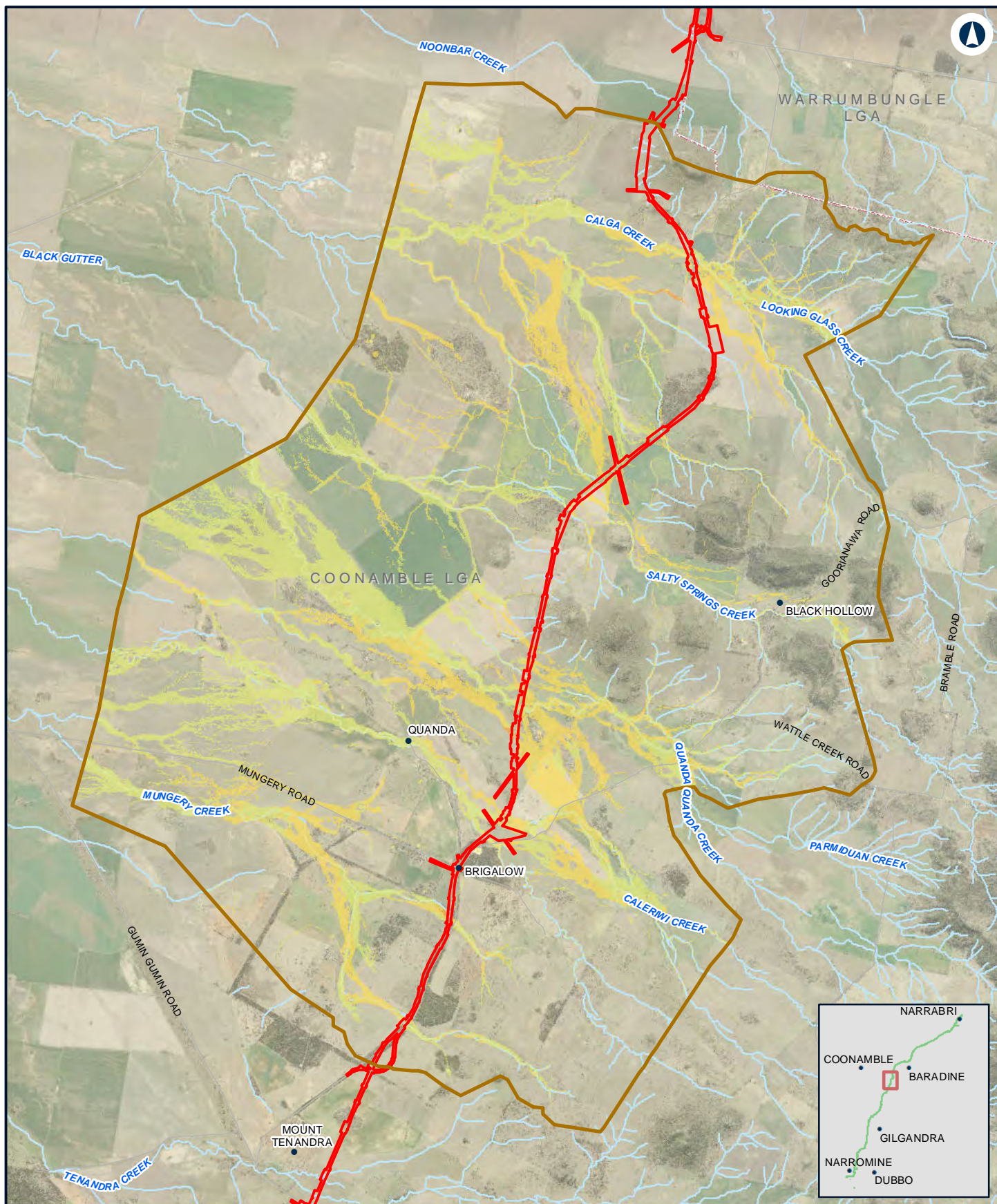
Change in Flood Velocity

- > 1 m/s decrease
- 0.5 m/s - 1 m/s decrease
- 0.1 m/s - 0.5 m/s decrease
- 0 m/s - 0.1 m/s decrease

- 0 m/s - 0.1 m/s increase
- 0.1 m/s - 0.5 m/s increase
- 0.5 m/s - 1 m/s increase
- > 1 m/s increase

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Change in velocity - 5% AEP - N2N8

Appendix G - Figure 2.2g

0 1 2 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/01/2022
Author: JacobsGHD

Paper: A4
Scale: 1:100,000

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

LEGEND

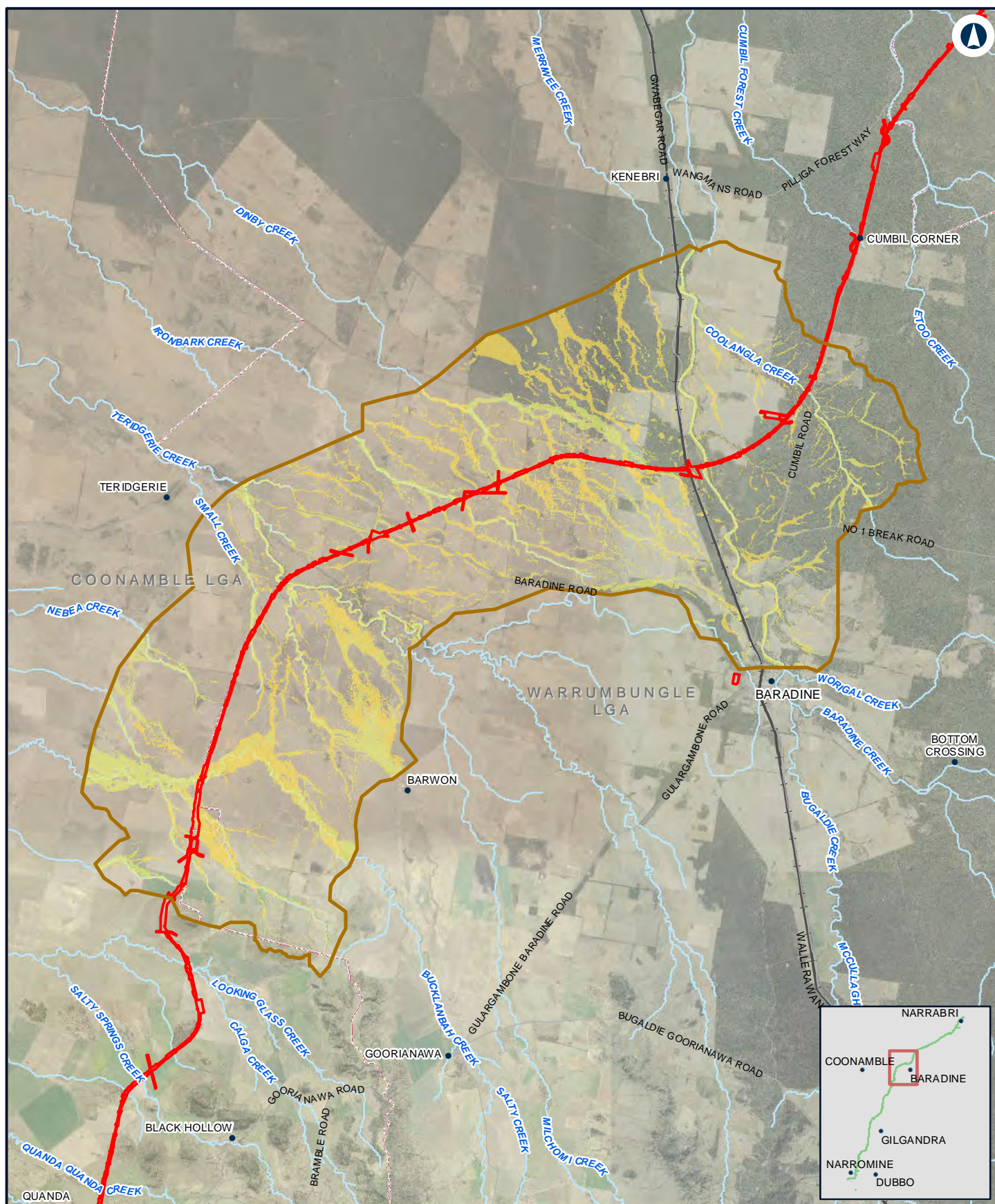
- The proposal site
- Model boundary

Change in Flood Velocity

- > 1 m/s decrease
- 0.5 m/s - 1 m/s decrease
- 0.1 m/s - 0.5 m/s decrease
- 0 m/s - 0.1 m/s decrease
- 0 m/s - 0.1 m/s increase
- 0.1 m/s - 0.5 m/s increase
- 0.5 m/s - 1 m/s increase
- > 1 m/s increase

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0 2.5 5 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/01/2022

Author: JacobsGHD

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

Paper: A4

Scale: 1:200,000

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

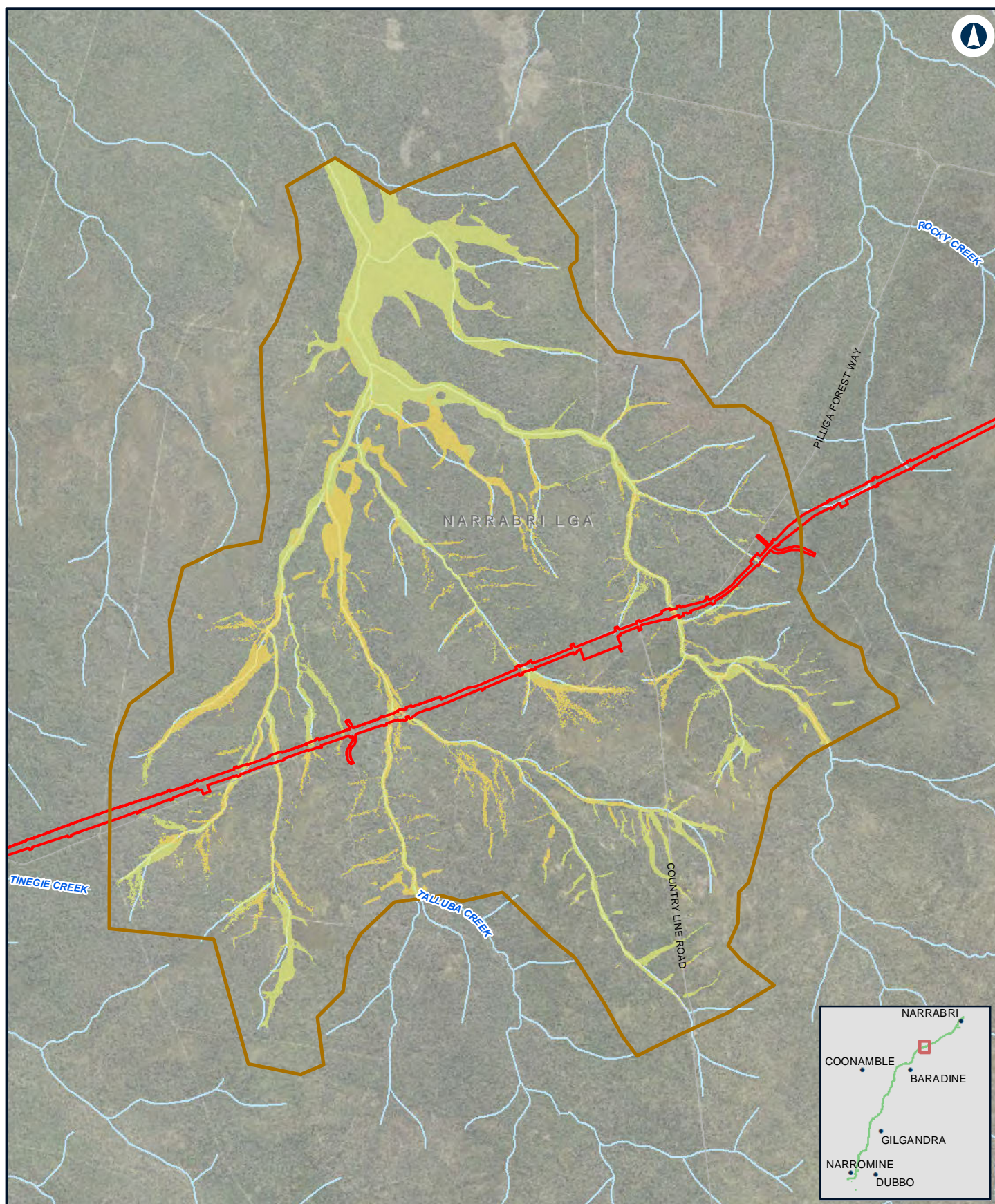
 0.1 m/s - 0.5 m/s increase

 0.5 m/s - 1 m/s increase

 > 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 5% AEP - N2N5

Appendix G - Figure 2.2j

0 1 2 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/01/2022
Author: JacobsGHD

Paper: A4
Scale: 1:70,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

> 1 m/s decrease

0.5 m/s - 1 m/s decrease

0.1 m/s - 0.5 m/s decrease

0 m/s - 0.1 m/s decrease

0 m/s - 0.1 m/s increase

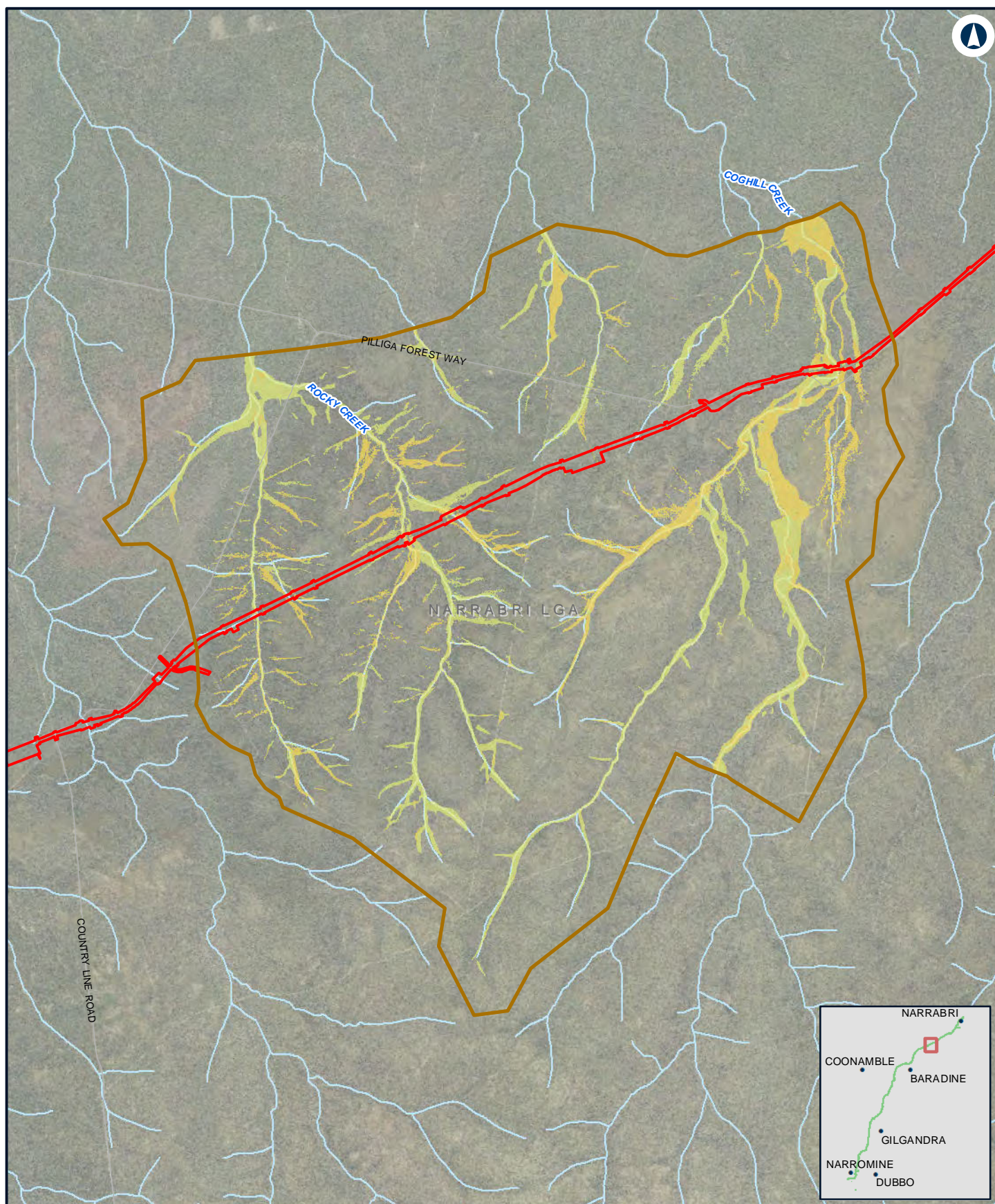
0.1 m/s - 0.5 m/s increase

0.5 m/s - 1 m/s increase

> 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 5% AEP - N2N4

Appendix G - Figure 2.2k

0 1 2 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/01/2022
Author: JacobsGHD

Paper: A4
Scale: 1:80,000

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

LEGEND

The proposal site

Model boundary

Change in Flood Velocity

> 1 m/s decrease

0.5 m/s - 1 m/s decrease

0.1 m/s - 0.5 m/s decrease

0 m/s - 0.1 m/s decrease

0 m/s - 0.1 m/s increase

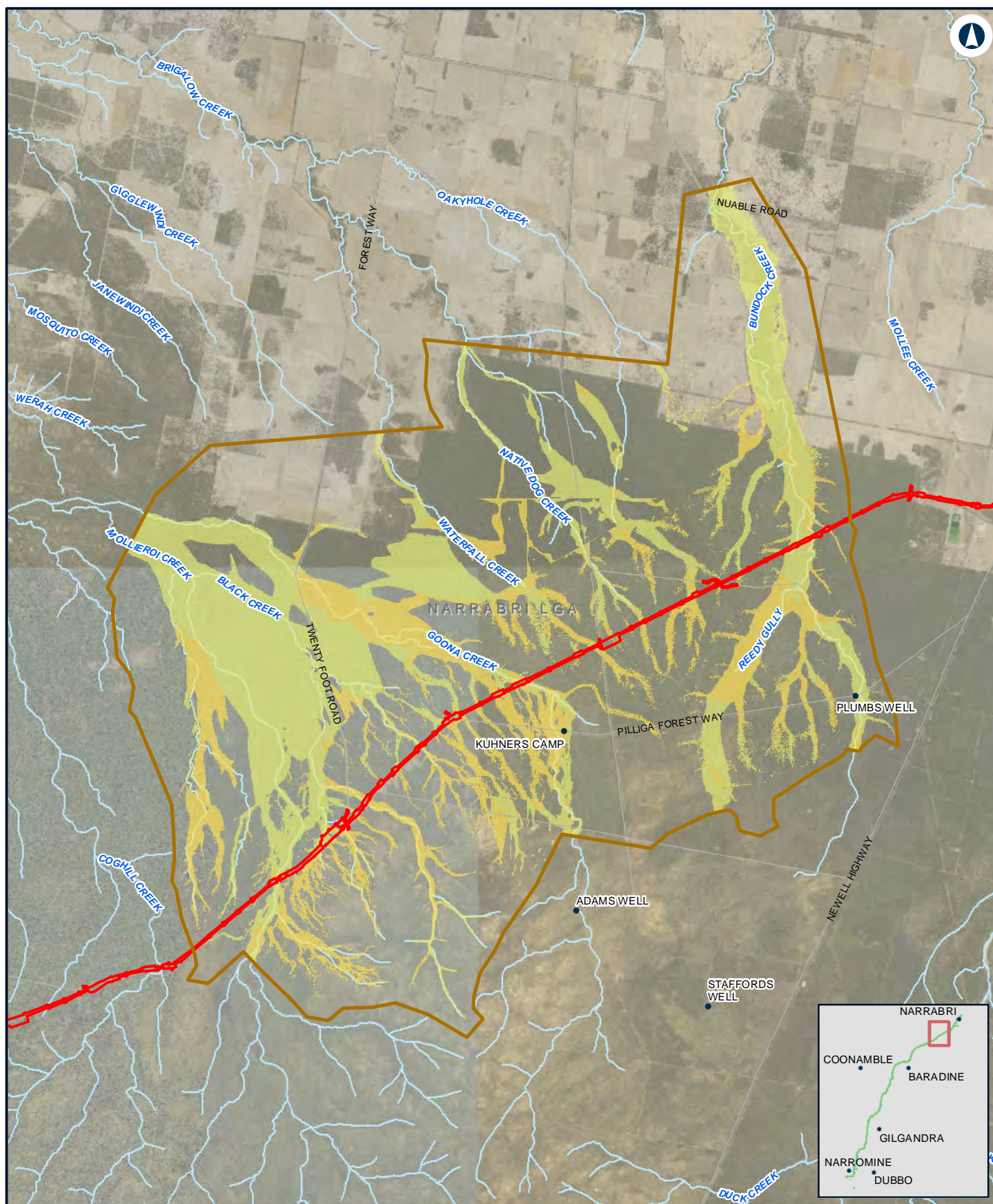
0.1 m/s - 0.5 m/s increase

0.5 m/s - 1 m/s increase

> 1 m/s increase

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NARRABRI TO NARRABRI

Change in velocity - 5% AEP - N2N23

Appendix G - Figure 2.21

0 1.5 3 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/01/2022
Author: JacobsGHD

Paper: A4
Scale: 1:140,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

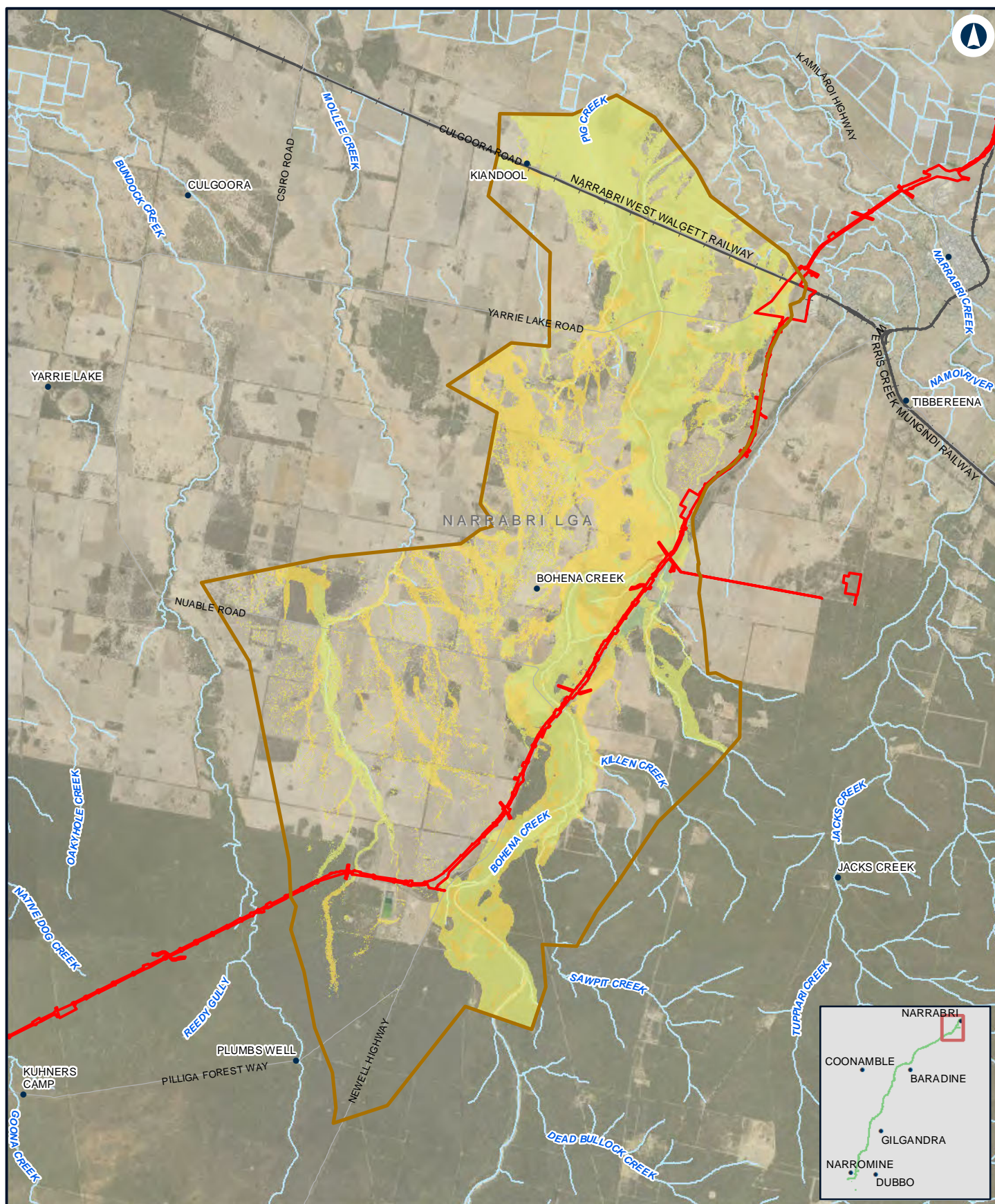
 0.1 m/s - 0.5 m/s increase

 0.5 m/s - 1 m/s increase

 > 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 5% AEP - N2N1

Appendix G - Figure 2.2m

0 2 4 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/01/2022
Author: JacobsGHD

Paper: A4
Scale: 1:150,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

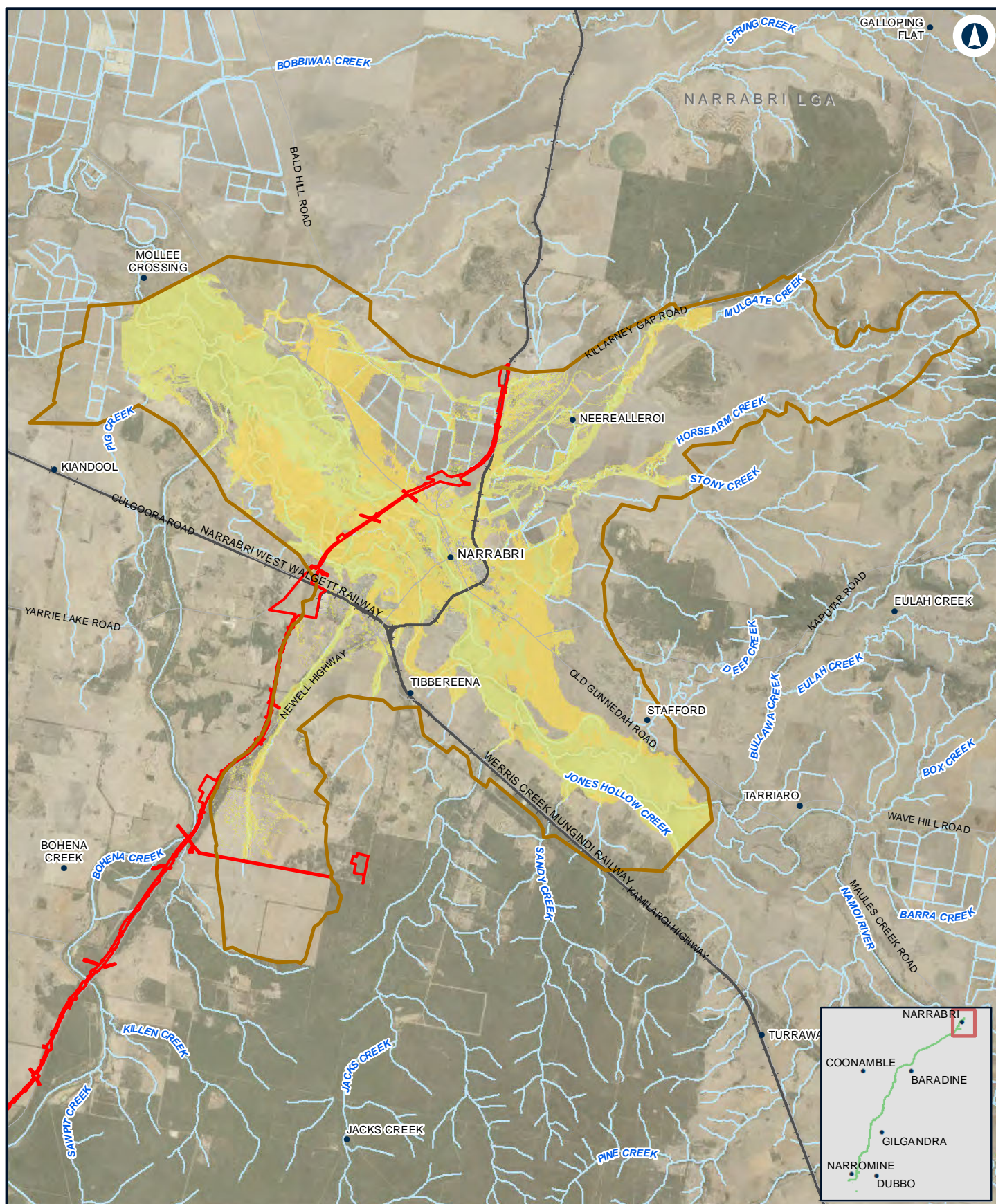
 0.1 m/s - 0.5 m/s increase

 0.5 m/s - 1 m/s increase

 > 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 5% AEP - Narrabri

Appendix G - Figure 2.2n

0 2 4
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/01/2022

Paper: A4

Author: JacobsGHD

Scale: 1:160,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

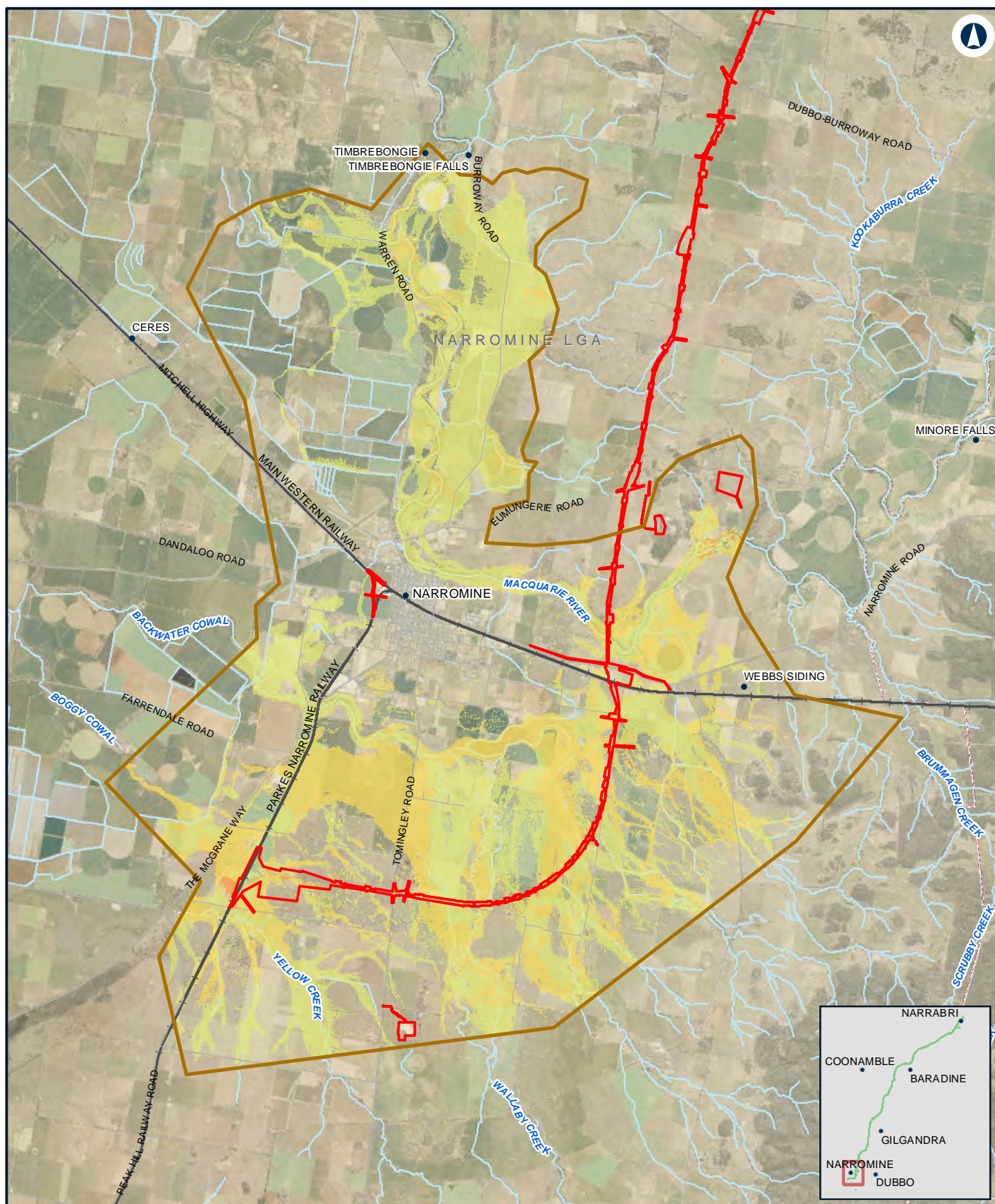
 0.1 m/s - 0.5 m/s increase

 0.5 m/s - 1 m/s increase

 > 1 m/s increase

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0 1.5 3 Km

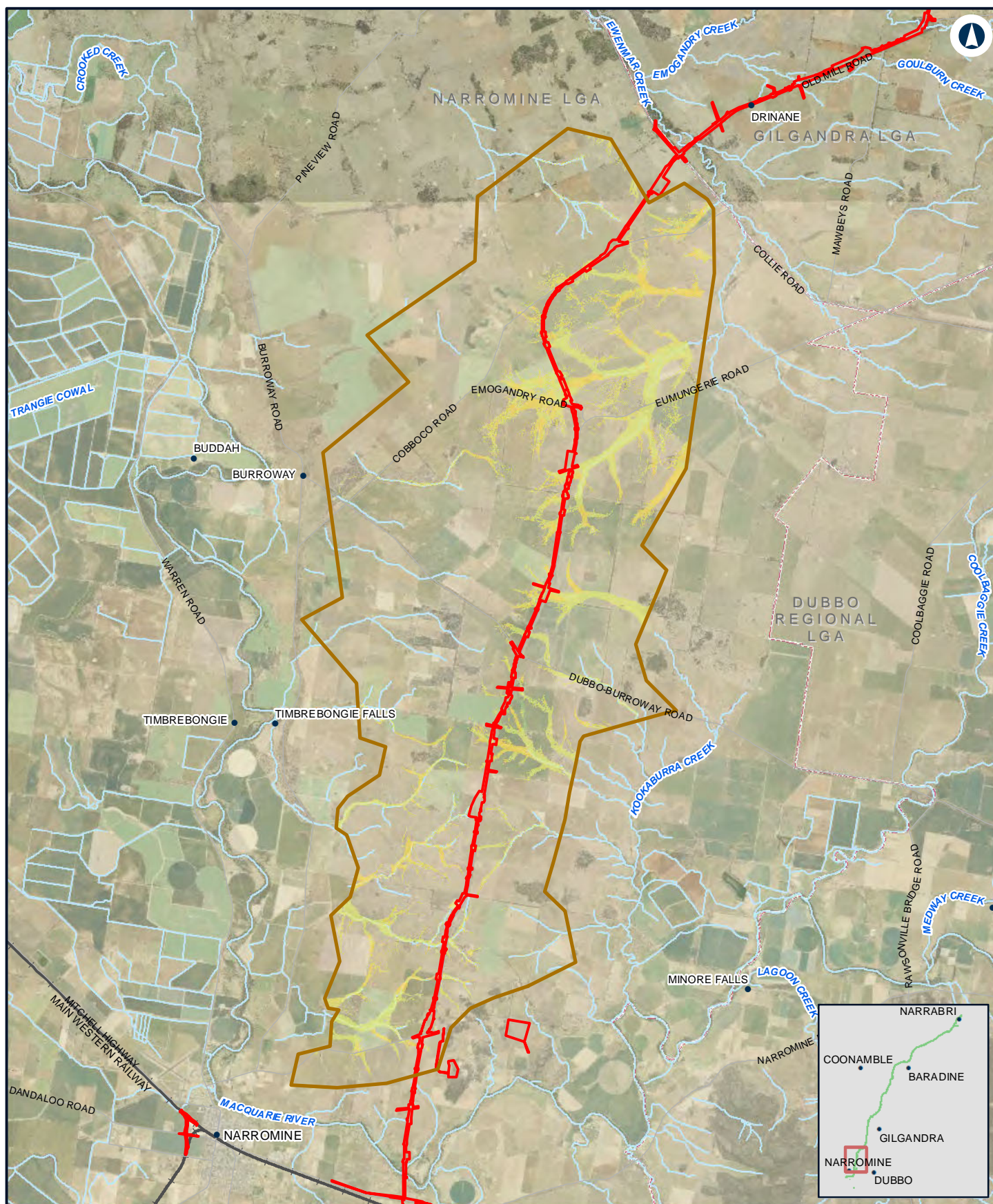
Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/01/2022
Author: JacobsGHD

Paper: A4
Scale: 1:140,000

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



NARROMINE TO NARRABRI

Change in velocity - 2% AEP - N2N14

Appendix G - Figure 2.3b

0 2 4 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/01/2022
Author: JacobsGHD

Paper: A4
Scale: 1:150,000

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

LEGEND

The proposal site

Model boundary

Change in Flood Velocity

> 1 m/s decrease

0.5 m/s - 1 m/s decrease

0.1 m/s - 0.5 m/s decrease

0 m/s - 0.1 m/s decrease

0 m/s - 0.1 m/s increase

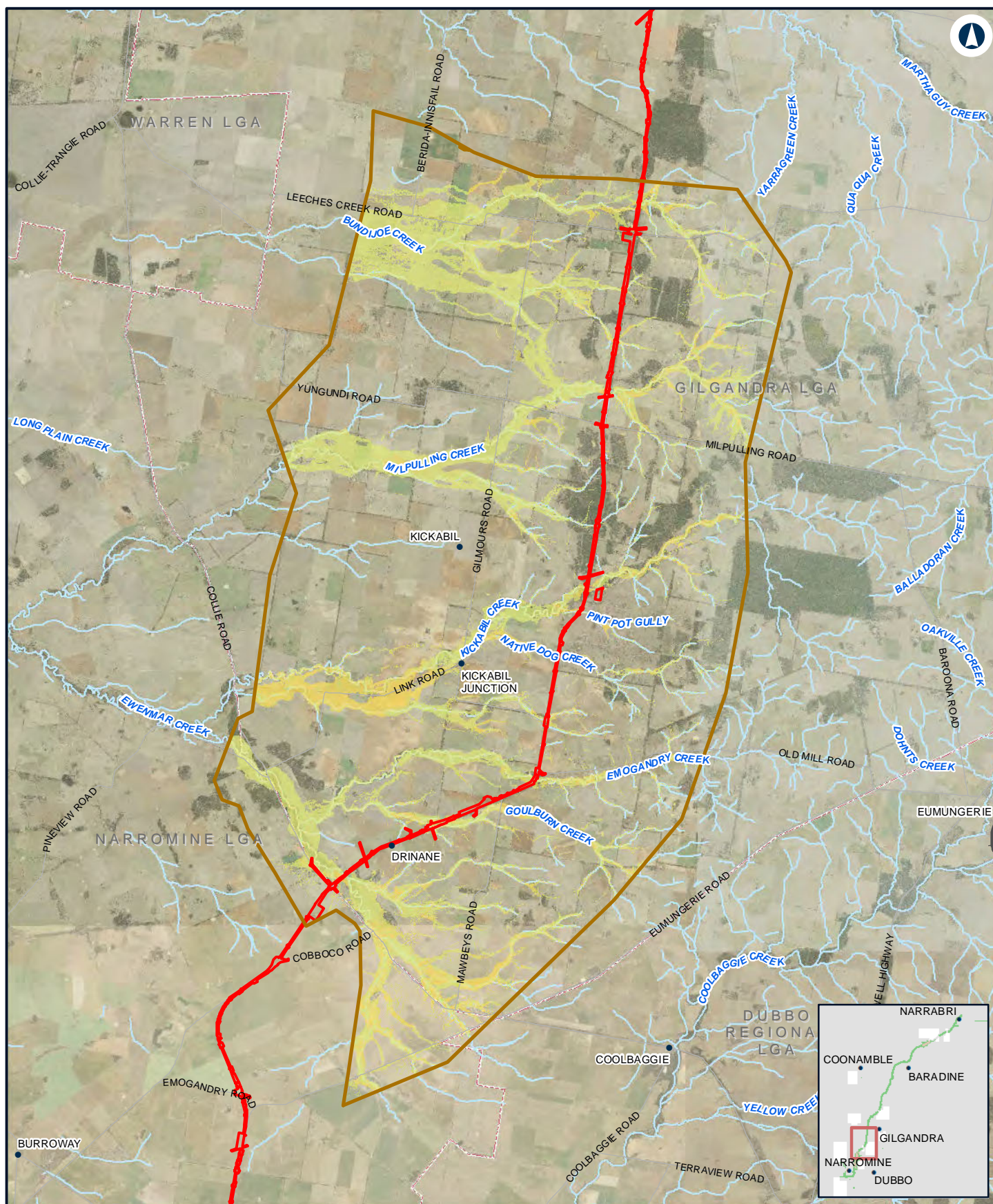
0.1 m/s - 0.5 m/s increase

0.5 m/s - 1 m/s increase

> 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 2% AEP - N2N13

Appendix G - Figure 2.3c

0 2.5 5 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/01/2022
Author: JacobsGHD

Paper: A4
Scale: 1:180,000

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

LEGEND

- The proposal site
- Model boundary

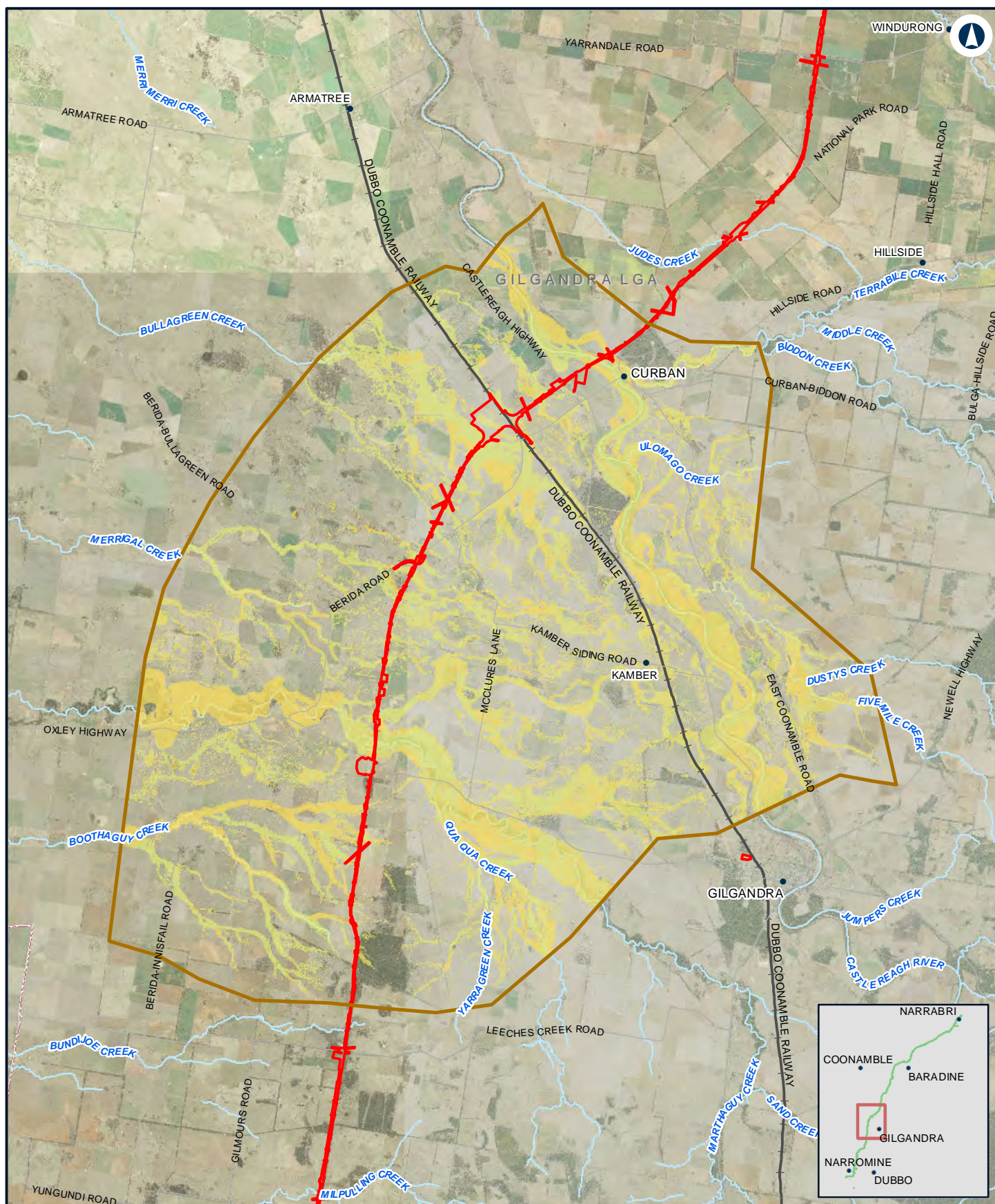
Change in Flood Velocity

- > 1 m/s decrease
- 0.5 m/s - 1 m/s decrease
- 0.1 m/s - 0.5 m/s decrease
- 0 m/s - 0.1 m/s decrease

- 0 m/s - 0.1 m/s increase
- 0.1 m/s - 0.5 m/s increase
- 0.5 m/s - 1 m/s increase
- > 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 2% AEP - N2N11N12

Appendix G - Figure 2.3d

0 2.5 5
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/01/2022
Author: JacobsGHD

Paper: A4
Scale: 1:200,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

> 1 m/s decrease

0.5 m/s - 1 m/s decrease

0.1 m/s - 0.5 m/s decrease

0 m/s - 0.1 m/s decrease

0 m/s - 0.1 m/s increase

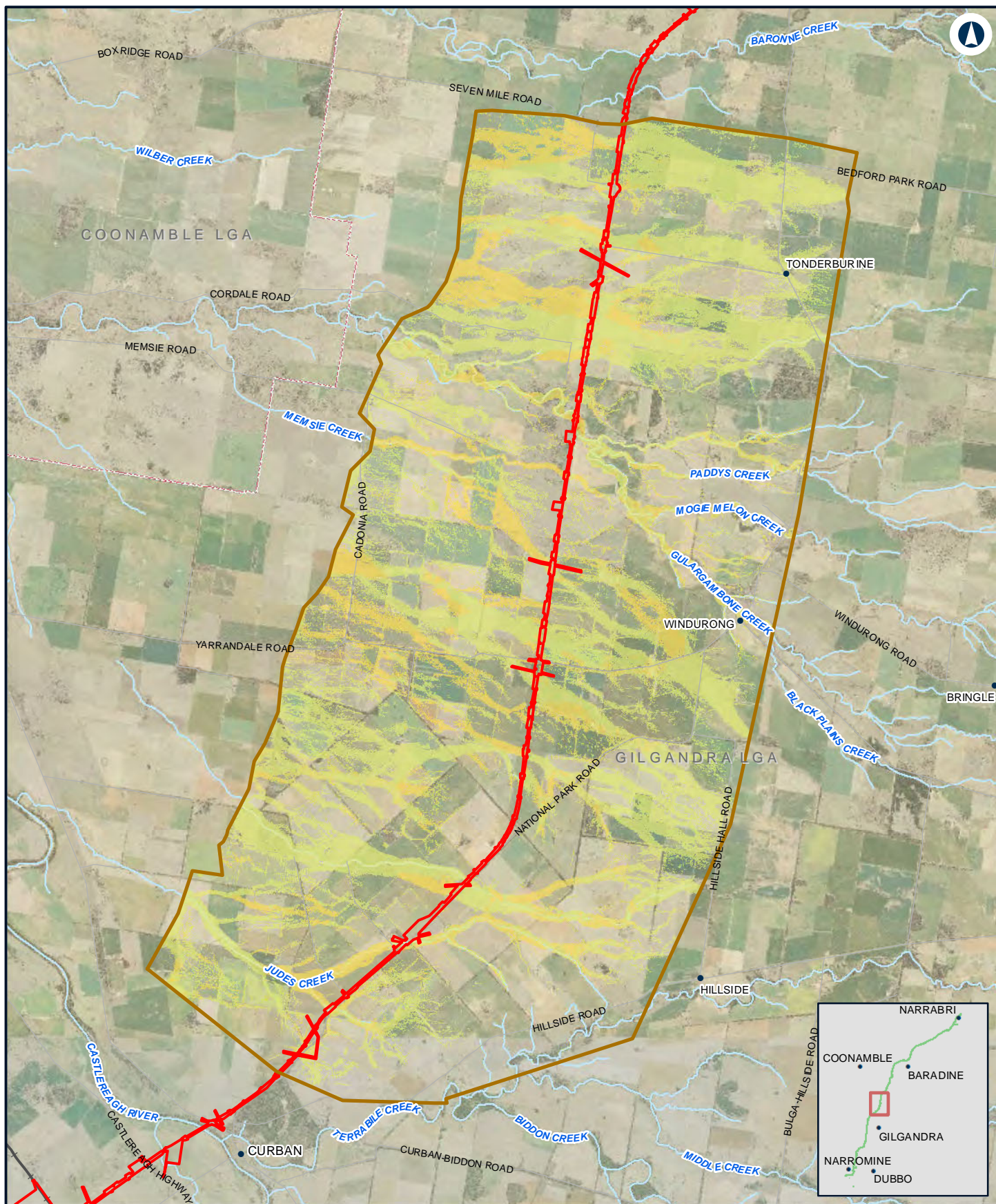
0.1 m/s - 0.5 m/s increase

0.5 m/s - 1 m/s increase

> 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 2% AEP - N2N10

Appendix G - Figure 2.3e

0 1.5 3 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/01/2022
Author: JacobsGHD

Paper: A4
Scale: 1:130,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

 0.1 m/s - 0.5 m/s increase

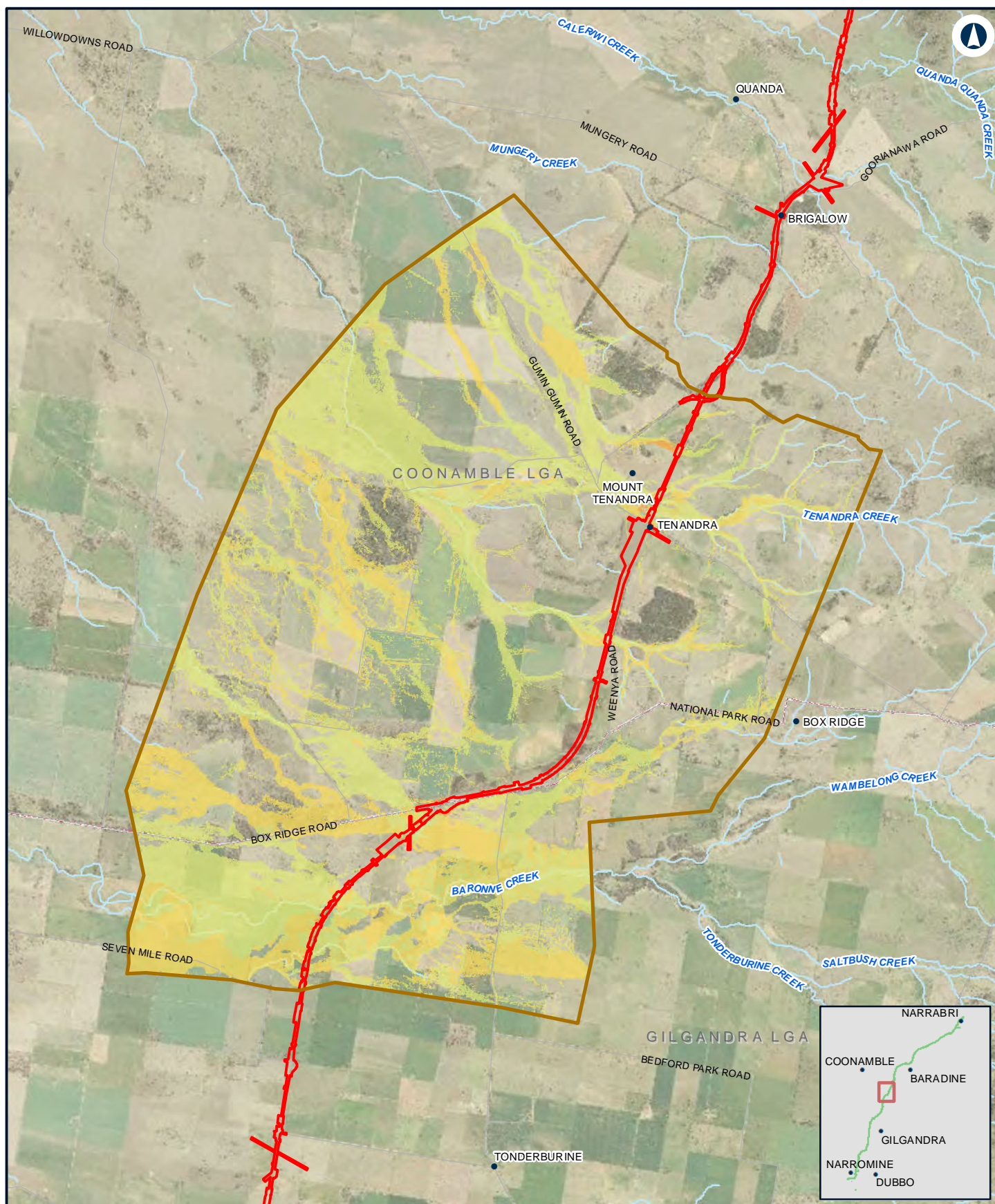
 0.5 m/s - 1 m/s increase

 > 1 m/s increase

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RAIL**

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NARROMINE TO NARRABRI

Change in velocity - 2% AEP - N2N9

Appendix G - Figure 2.3f

0 1.5 3 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/01/2022
Author: JacobsGHD

Paper: A4
Scale: 1:110,000

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

LEGEND

- The proposal site
- Model boundary

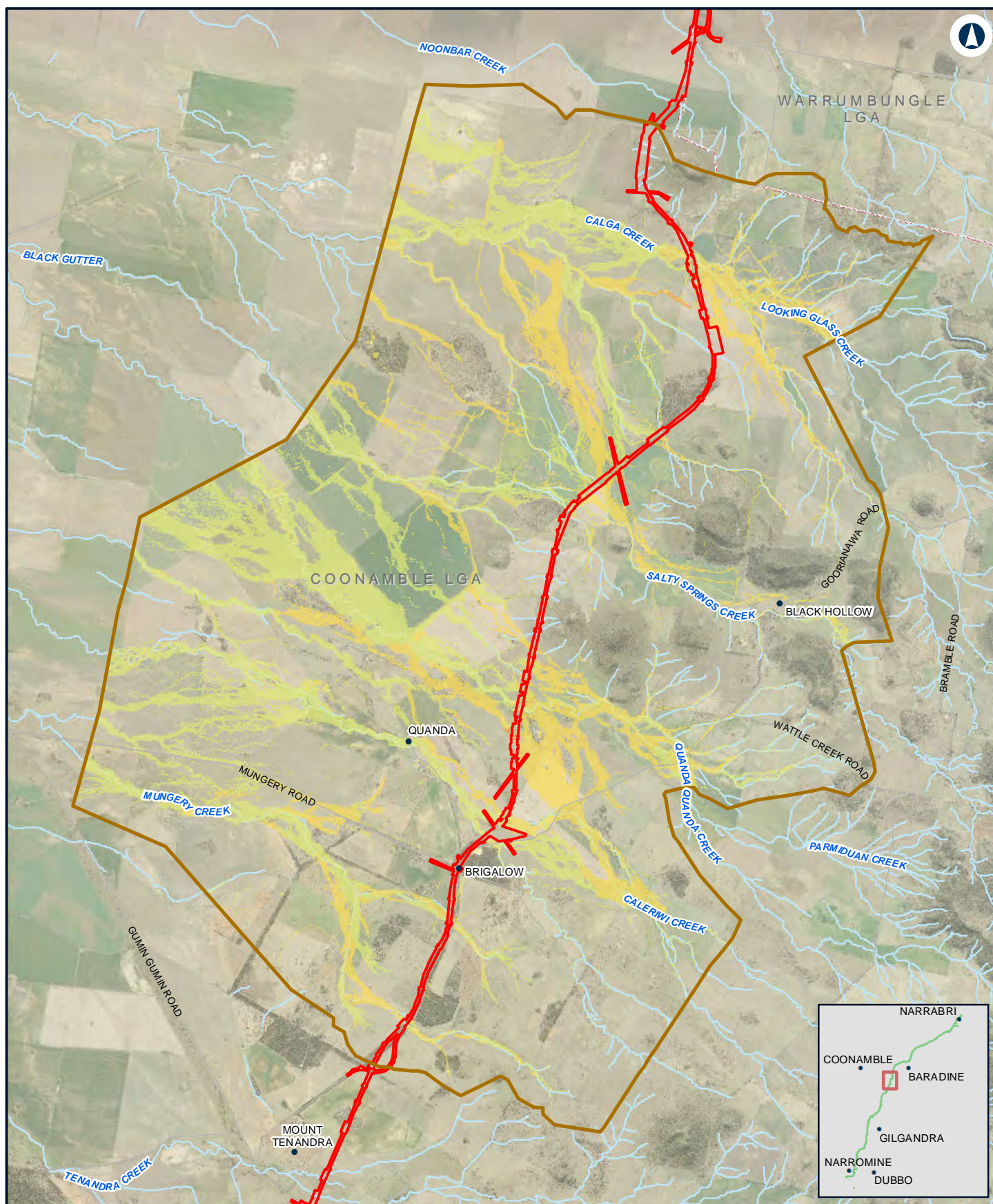
Change in Flood Velocity

- > 1 m/s decrease
- 0.5 m/s - 1 m/s decrease
- 0.1 m/s - 0.5 m/s decrease
- 0 m/s - 0.1 m/s decrease

- 0 m/s - 0.1 m/s increase
- 0.1 m/s - 0.5 m/s increase
- 0.5 m/s - 1 m/s increase
- > 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 2% AEP - N2N8

Appendix G - Figure 2.3g

0 1 2 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/01/2022
Author: JacobsGHD

Paper: A4
Scale: 1:100,000

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

LEGEND

- The proposal site
- Model boundary

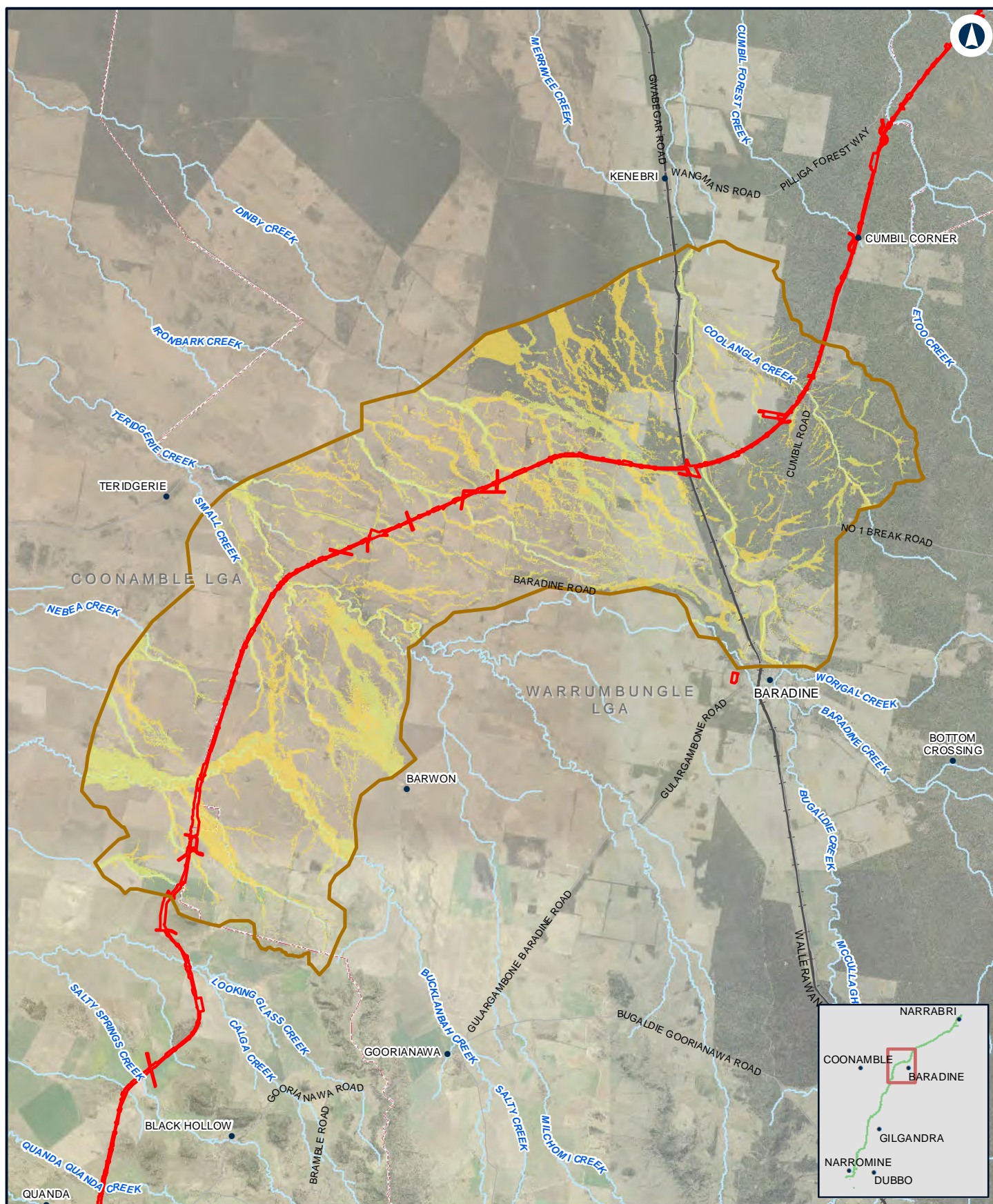
Change in Flood Velocity

- > 1 m/s decrease
- 0.5 m/s - 1 m/s decrease
- 0.1 m/s - 0.5 m/s decrease
- 0 m/s - 0.1 m/s decrease

- 0 m/s - 0.1 m/s increase
- 0.1 m/s - 0.5 m/s increase
- 0.5 m/s - 1 m/s increase
- > 1 m/s increase

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0 2.5 5
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/01/2022

Paper: A4

Author: JacobsGHD

Scale: 1:200,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

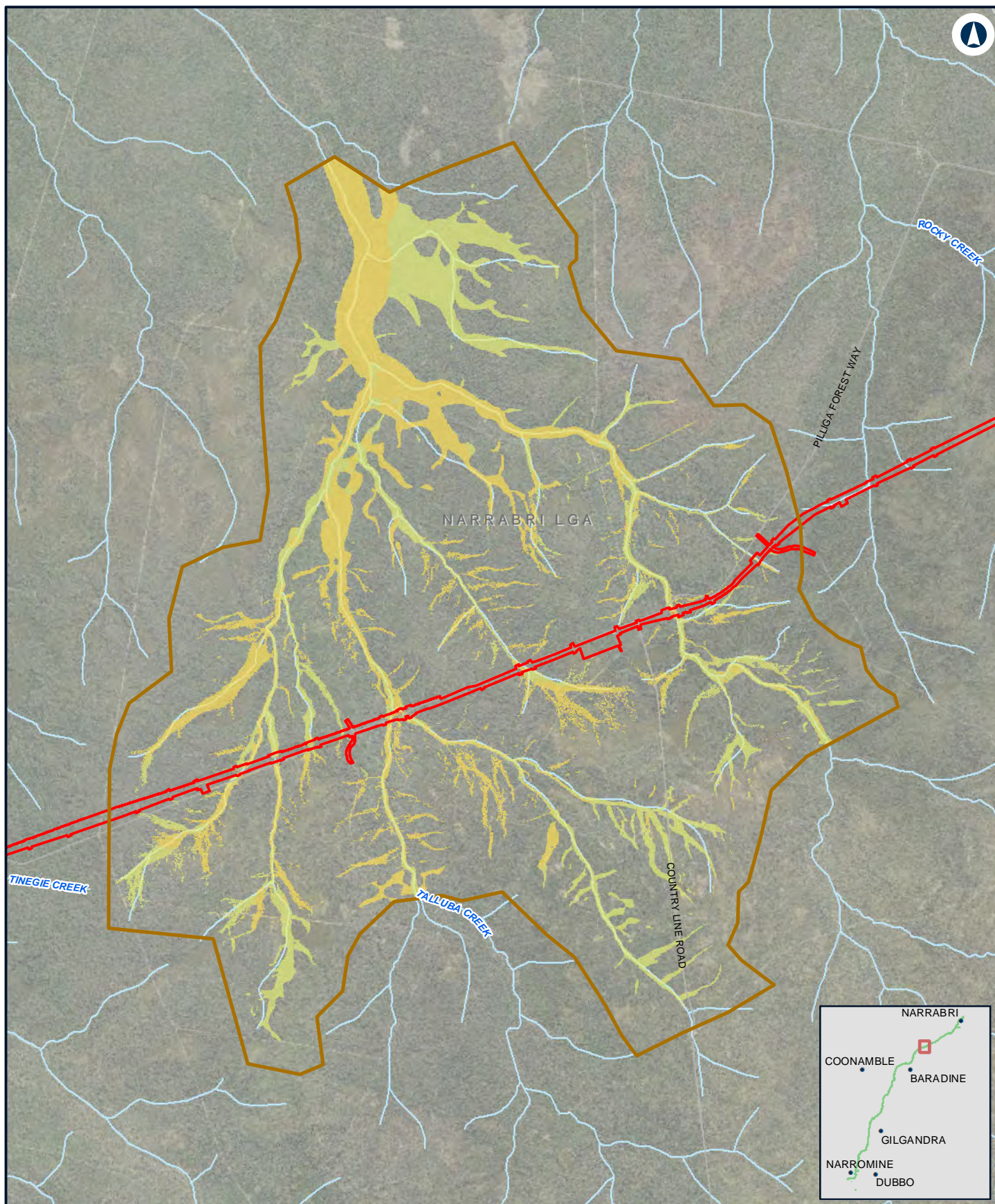
 0.1 m/s - 0.5 m/s increase

 0.5 m/s - 1 m/s increase

 > 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 2% AEP - N2N5

Appendix G - Figure 2.3j

0 1 2 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/01/2022
Author: JacobsGHD

Paper: A4
Scale: 1:70,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

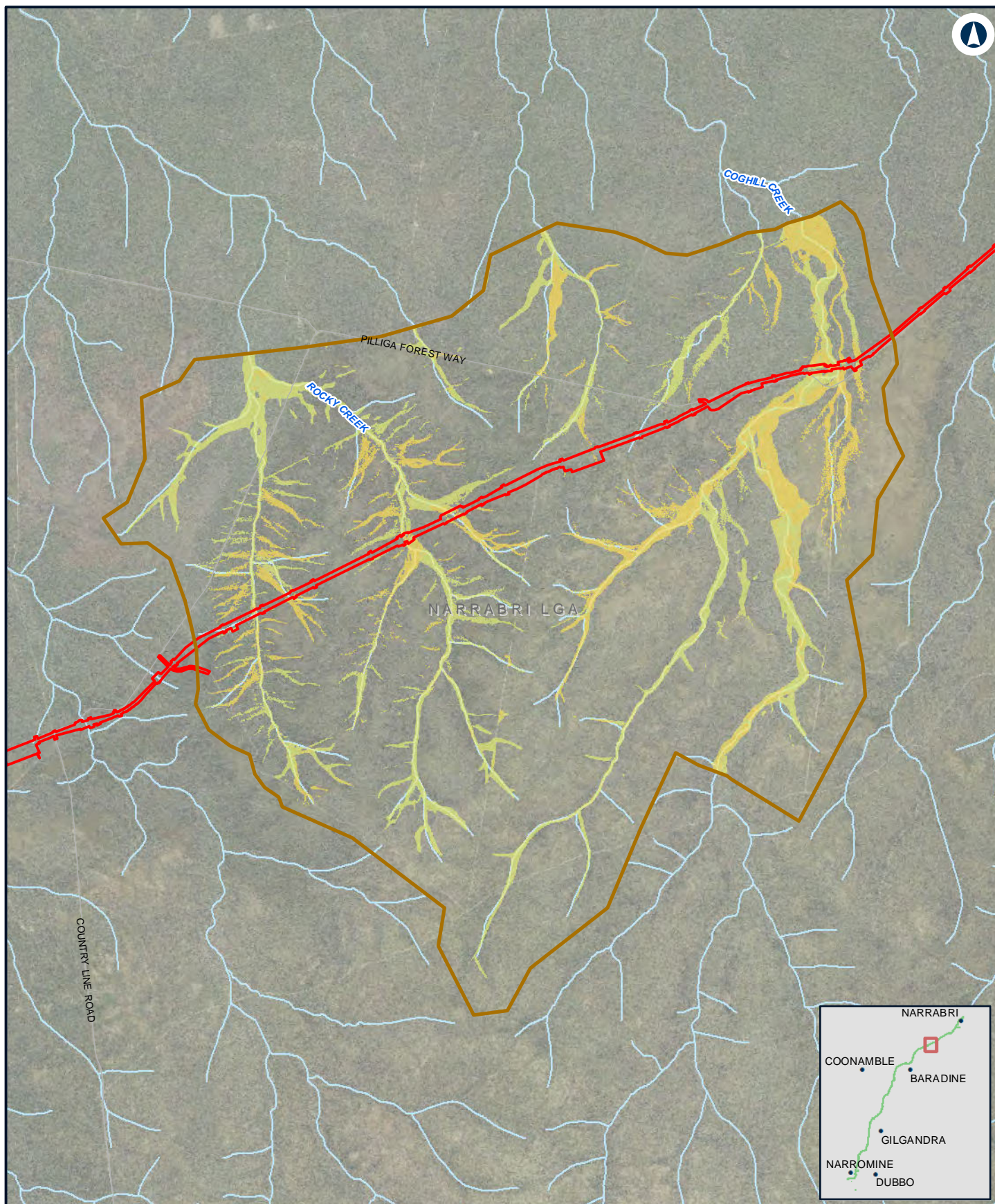
 0.1 m/s - 0.5 m/s increase

 0.5 m/s - 1 m/s increase

 > 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 2% AEP - N2N4

Appendix G - Figure 2.3k

0 1 2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/01/2022
Author: JacobsGHD

Paper: A4
Scale: 1:80,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

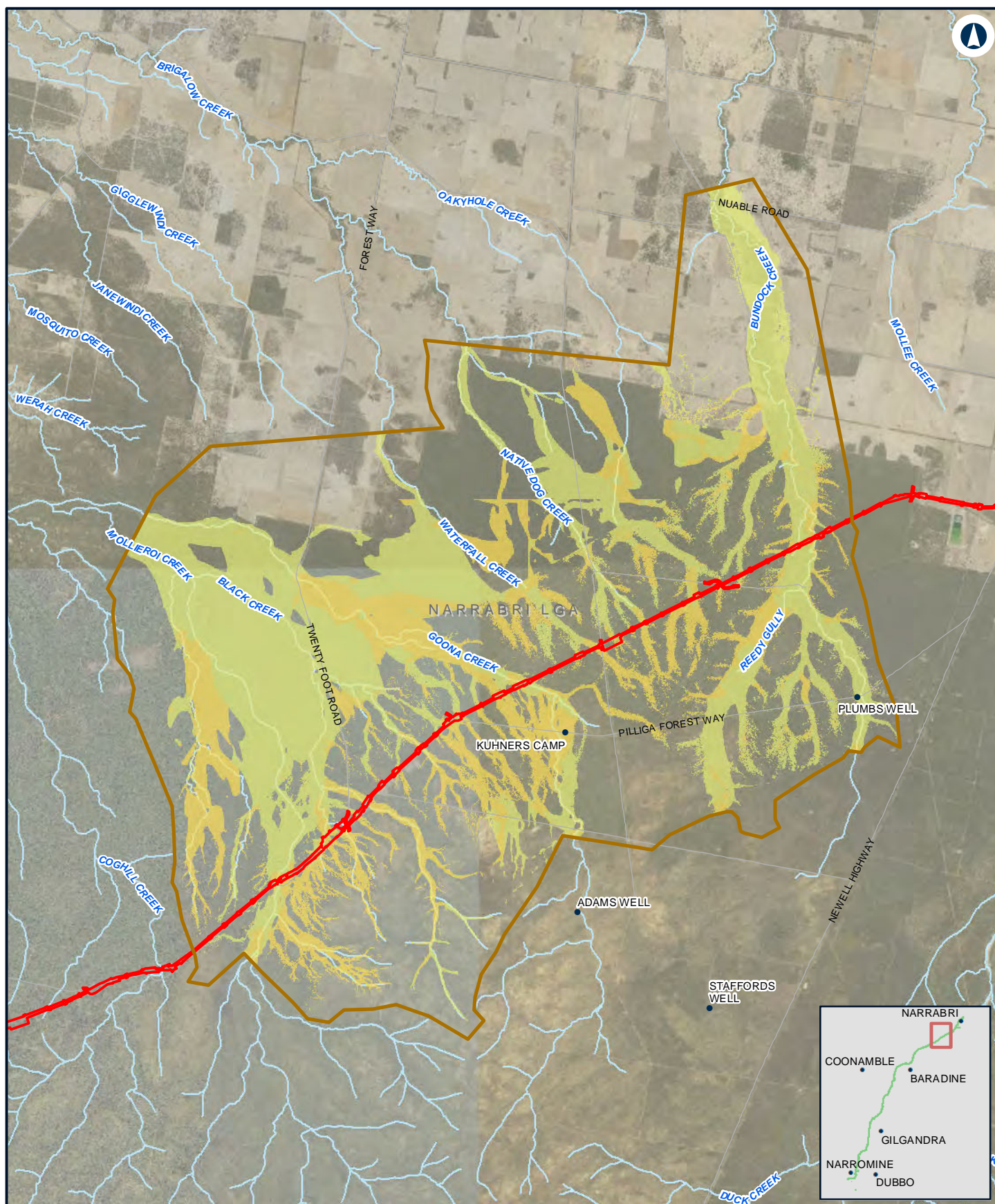
 0.1 m/s - 0.5 m/s increase

 0.5 m/s - 1 m/s increase

 > 1 m/s increase

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

Change in velocity - 2% AEP - N2N23

Appendix G - Figure 2.3I

0 1.5 3 Km

Coordinate System: GDA 1994 MGA Zone 55

ARTC makes no representation or warranty and assumes no duty of care or other responsibility to any party as to the completeness, accuracy or suitability of the information contained in this GIS map. The GIS map has been prepared from material provided to ARTC by an external source and ARTC has not taken any steps to verify the completeness, accuracy or suitability of that material. 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: 10/01/2022
Author: JacobsGHD

Paper: A4
Scale: 1:140,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

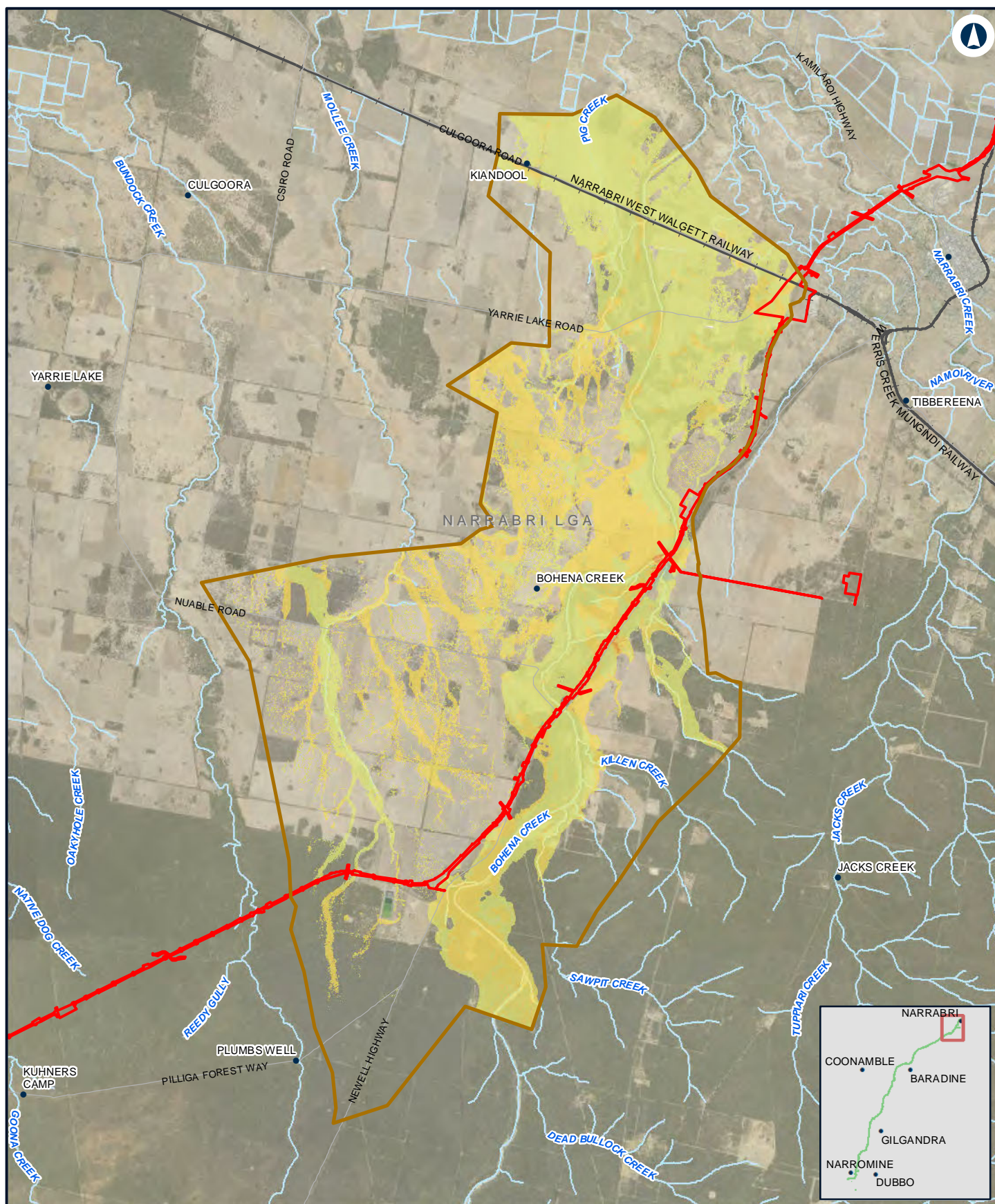
 0.1 m/s - 0.5 m/s increase

 0.5 m/s - 1 m/s increase

 > 1 m/s increase

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Change in velocity - 2% AEP - N2N1

Appendix G - Figure 2.3m

0 2 4 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/01/2022
Author: JacobsGHD

Paper: A4
Scale: 1:150,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

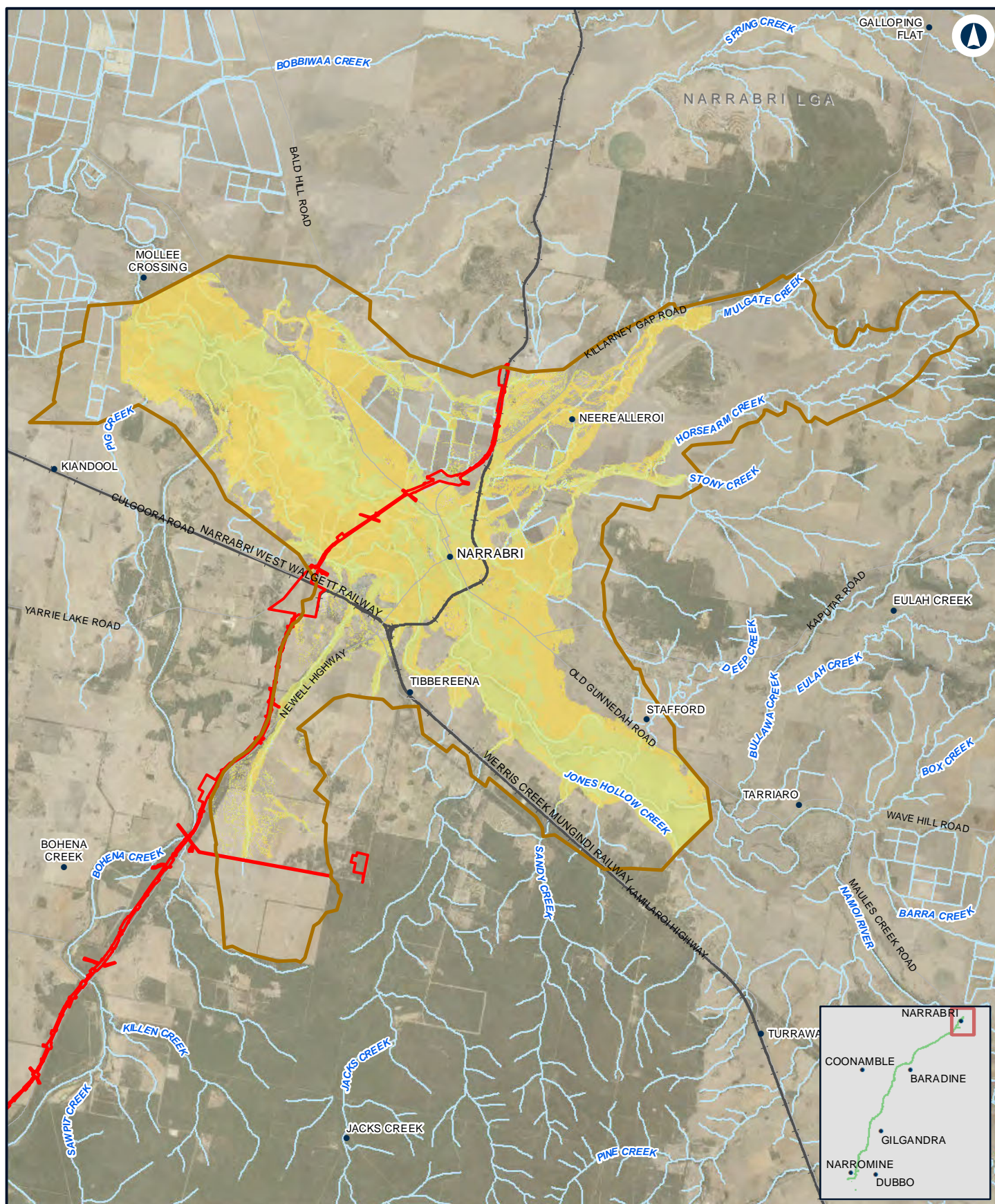
 0.1 m/s - 0.5 m/s increase

 0.5 m/s - 1 m/s increase

 > 1 m/s increase

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Change in velocity - 2% AEP - Narrabri

Appendix G - Figure 2.3n

0 2 4 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/01/2022

Paper: A4

Author: JacobsGHD

Scale: 1:160,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

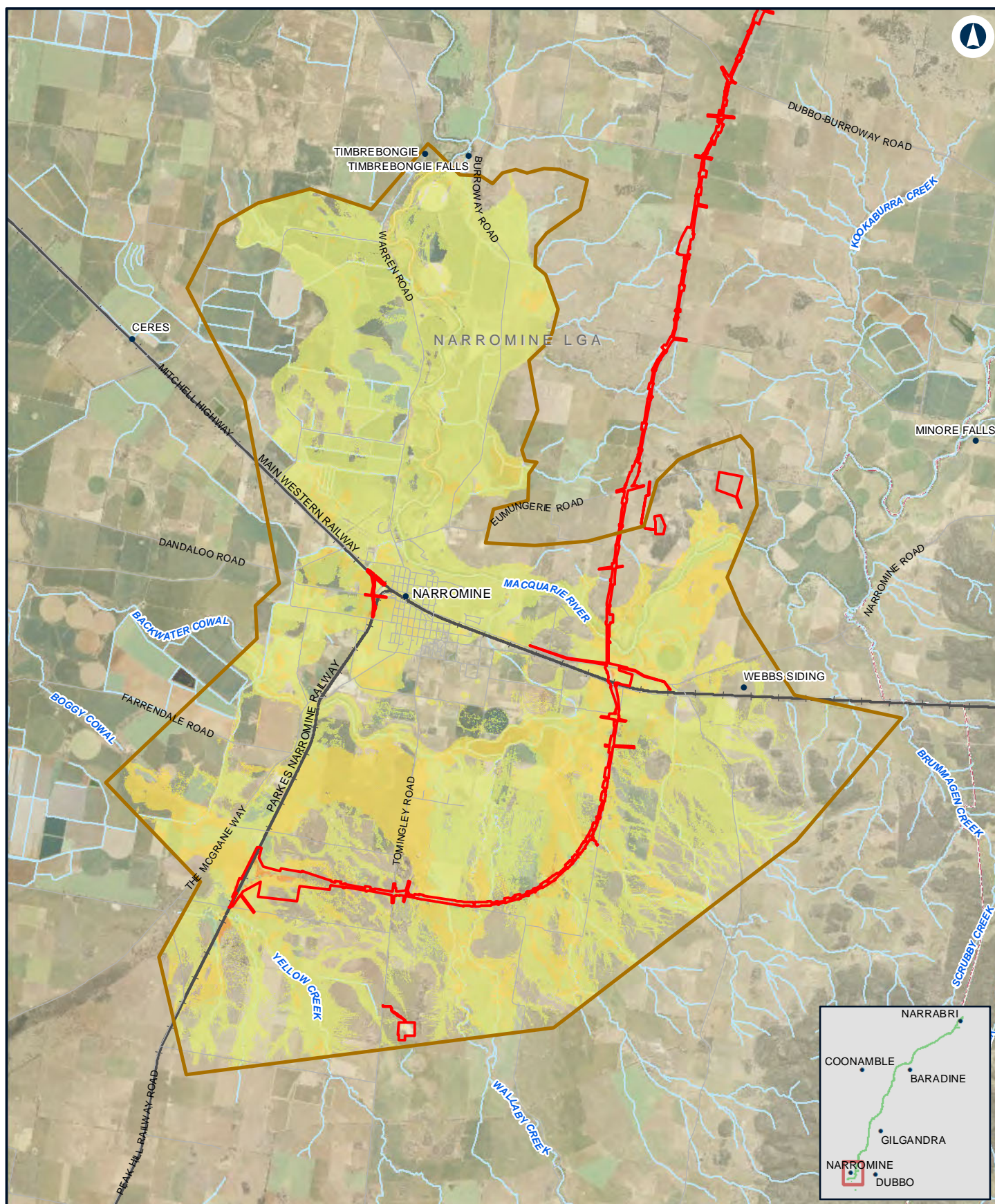
 0.1 m/s - 0.5 m/s increase

 0.5 m/s - 1 m/s increase

 > 1 m/s increase

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Change in velocity - 1% AEP with blockage - NFM

Appendix G - Figure 2.4a

0 1.5 3 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 5/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:140,000

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

LEGEND

The proposal site

Model boundary

Change in Flood Velocity

> 1 m/s decrease

0.5 m/s - 1 m/s decrease

0.1 m/s - 0.5 m/s decrease

0 m/s - 0.1 m/s decrease

0 m/s - 0.1 m/s increase

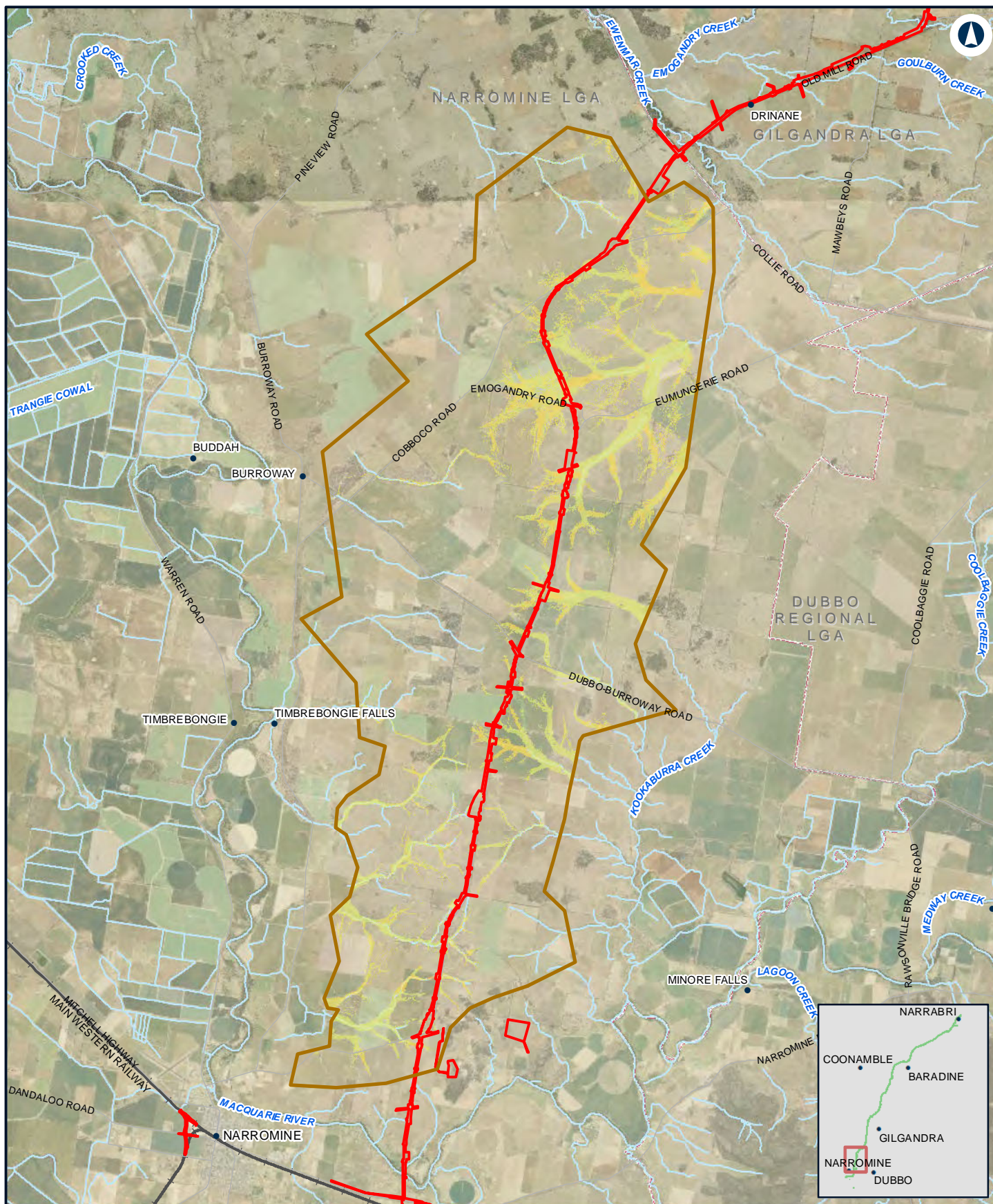
0.1 m/s - 0.5 m/s increase

0.5 m/s - 1 m/s increase

> 1 m/s increase

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Change in velocity - 1% AEP with blockage - N2N14

Appendix G - Figure 2.4b

0 2 4 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 5/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:150,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

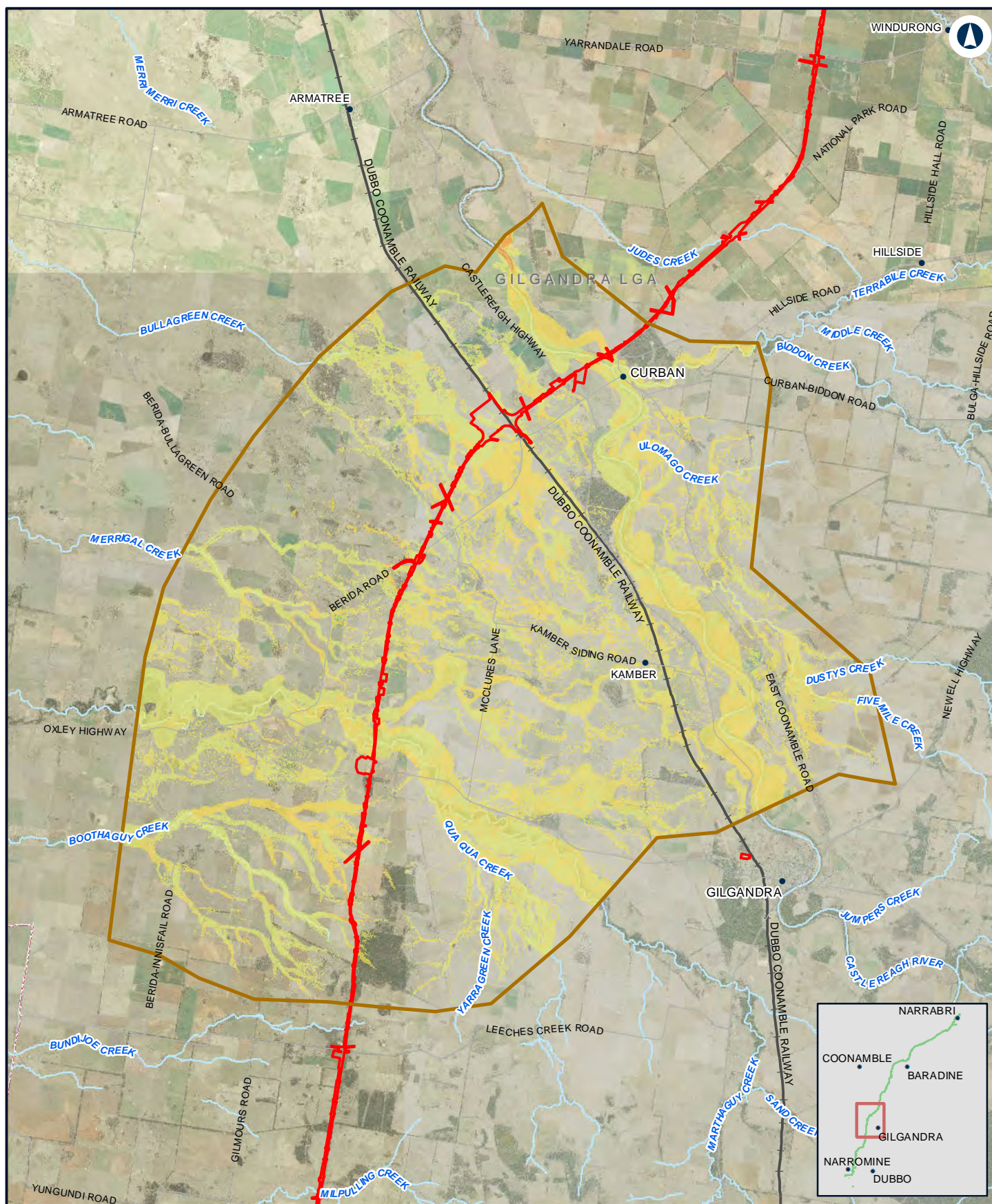
 0.1 m/s - 0.5 m/s increase

 0.5 m/s - 1 m/s increase

 > 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 1% AEP with blockage - N2N11N12

Appendix G - Figure 2.4d

0 2.5 5
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 5/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:200,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

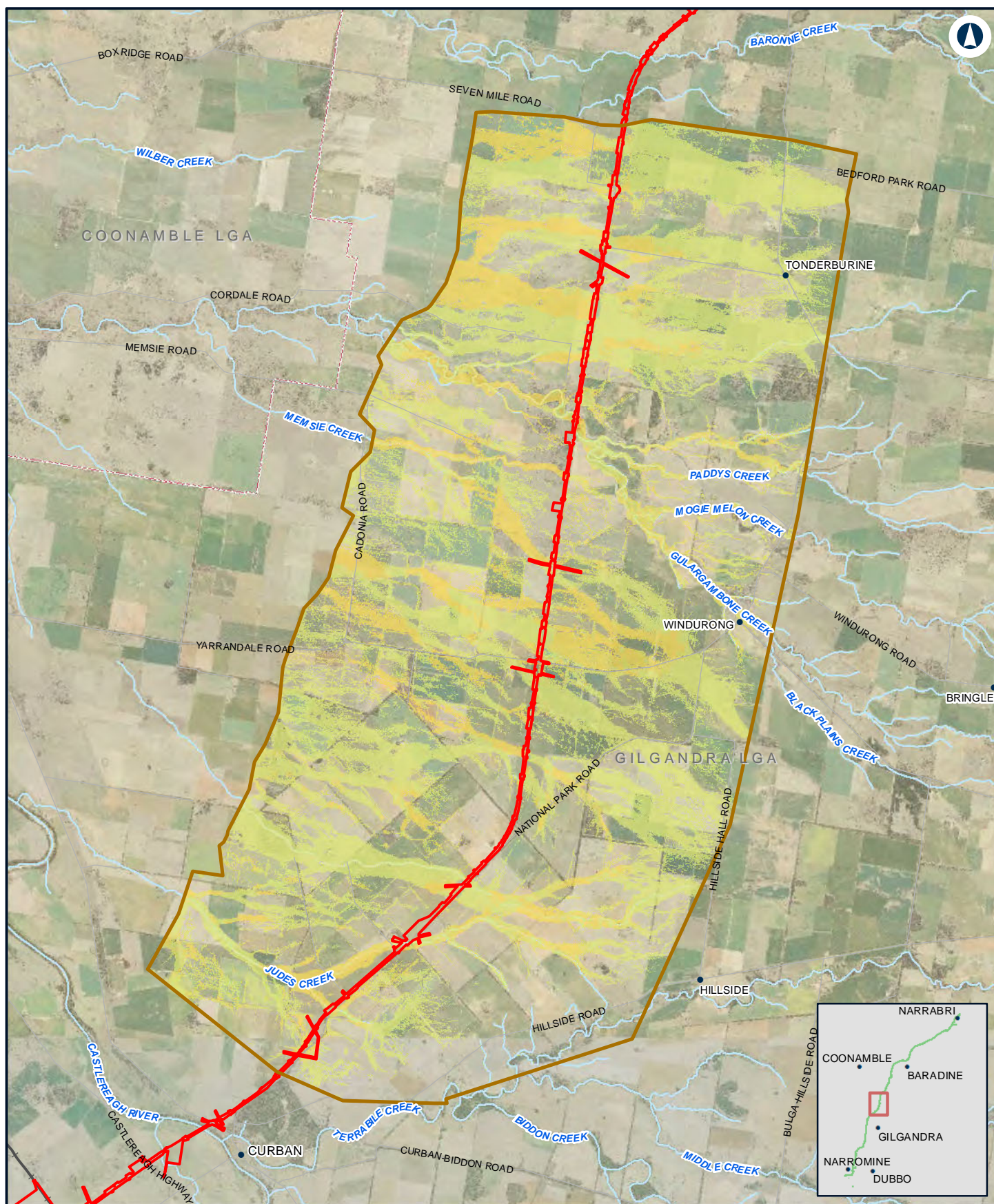
 0.1 m/s - 0.5 m/s increase

 0.5 m/s - 1 m/s increase

 > 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 1% AEP with blockage - N2N10

Appendix G - Figure 2.4e

0 1.5 3
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 5/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:130,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

 0.1 m/s - 0.5 m/s increase

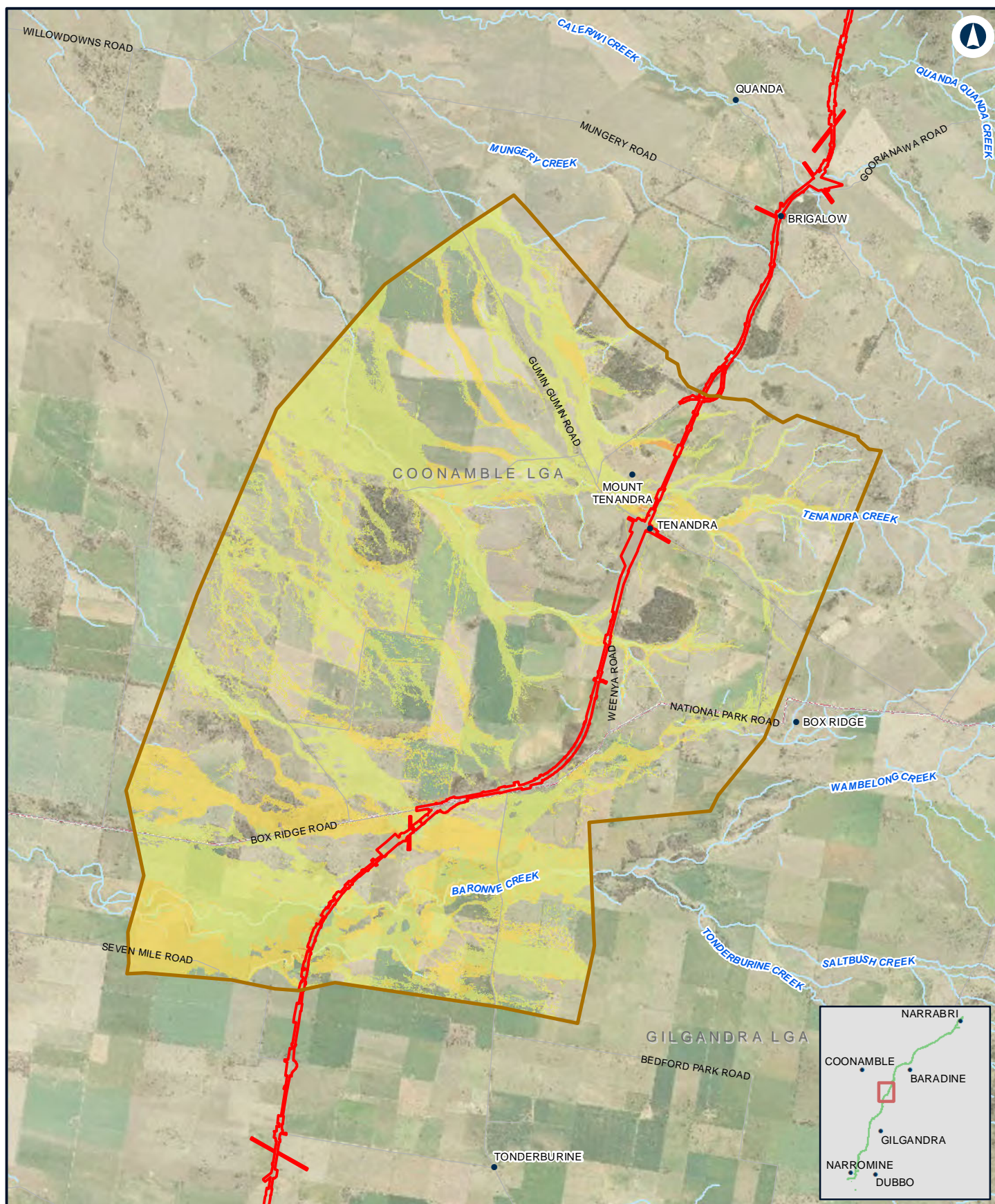
 0.5 m/s - 1 m/s increase

 > 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 1% AEP with blockage - N2N9

Appendix G - Figure 2.4f

0 1.5 3 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 5/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:110,000

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

LEGEND

- The proposal site
- Model boundary

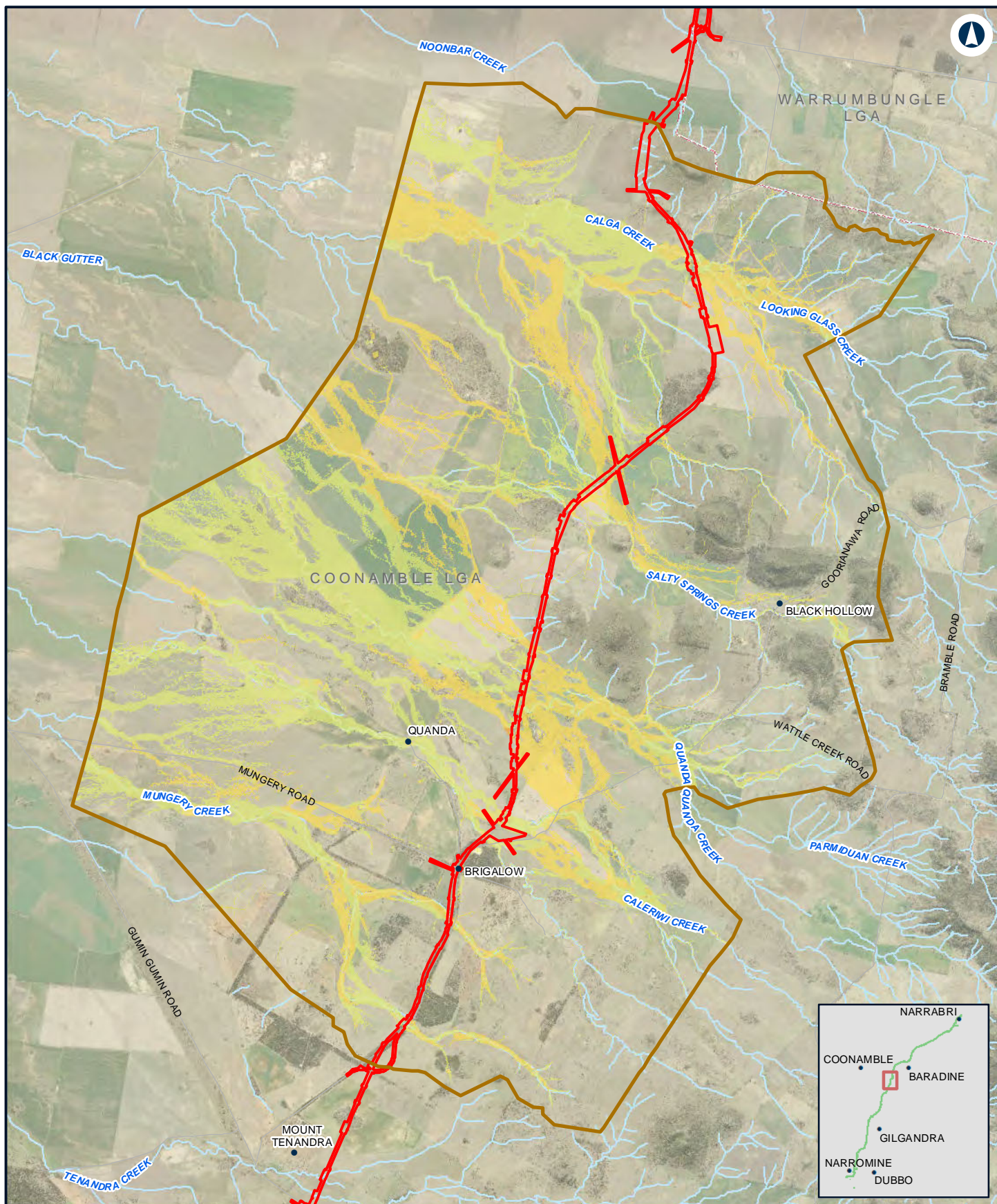
Change in Flood Velocity

- > 1 m/s decrease
- 0.5 m/s - 1 m/s decrease
- 0.1 m/s - 0.5 m/s decrease
- 0 m/s - 0.1 m/s decrease

- 0 m/s - 0.1 m/s increase
- 0.1 m/s - 0.5 m/s increase
- 0.5 m/s - 1 m/s increase
- > 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 1% AEP with blockage - N2N8

Appendix G - Figure 2.4g

0 1 2 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 5/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:100,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

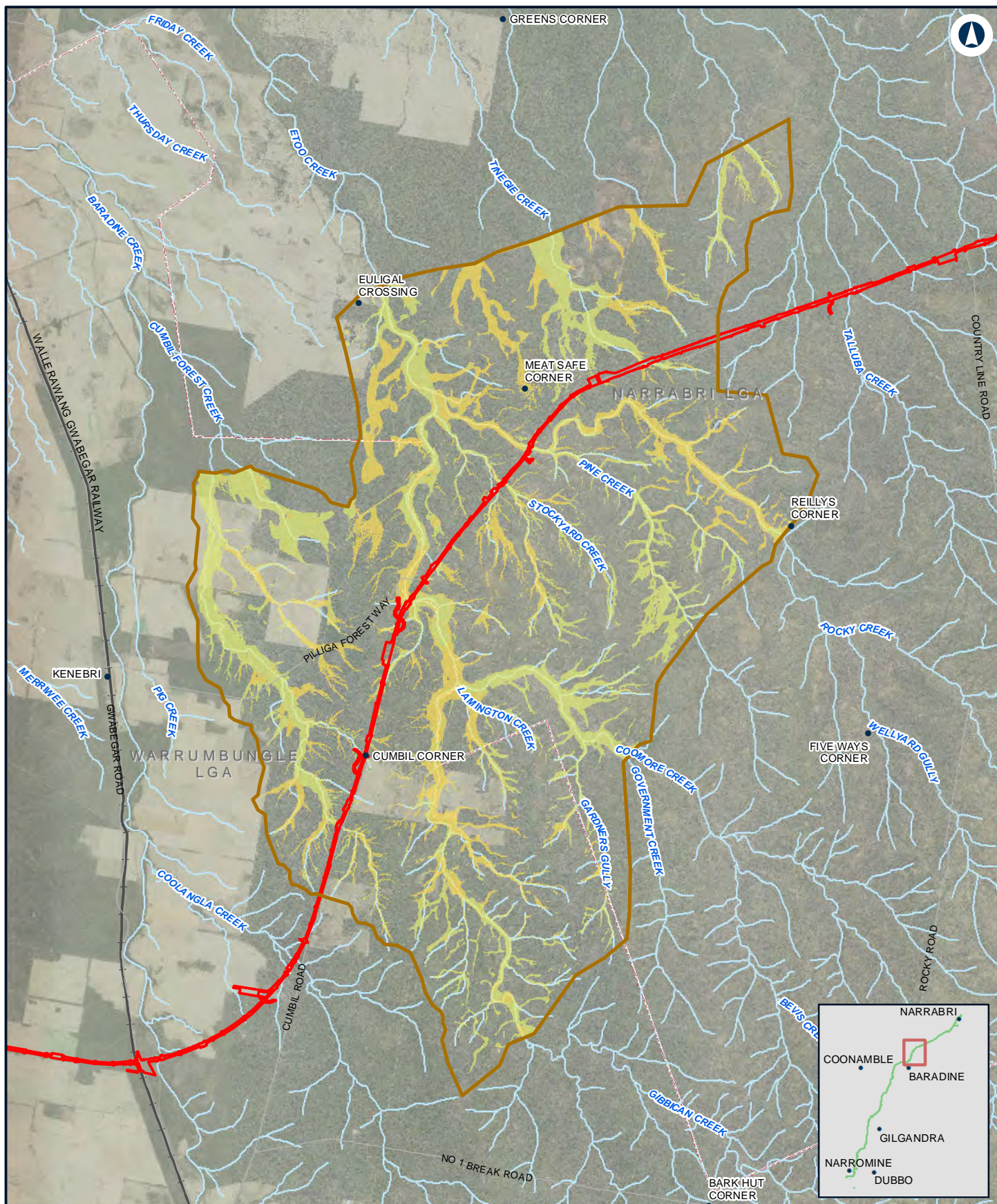
 0.1 m/s - 0.5 m/s increase

 0.5 m/s - 1 m/s increase

 > 1 m/s increase

INLAND RAIL **ARTC**

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NARRABRI TO NARRABRI

Change in velocity - 1% AEP with blockage - N2N6

Appendix G - Figure 2.4i

0 2 4 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 5/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:150,000

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

LEGEND

The proposal site

Model boundary

Change in Flood Velocity

> 1 m/s decrease

0.5 m/s - 1 m/s decrease

0.1 m/s - 0.5 m/s decrease

0 m/s - 0.1 m/s decrease

0 m/s - 0.1 m/s increase

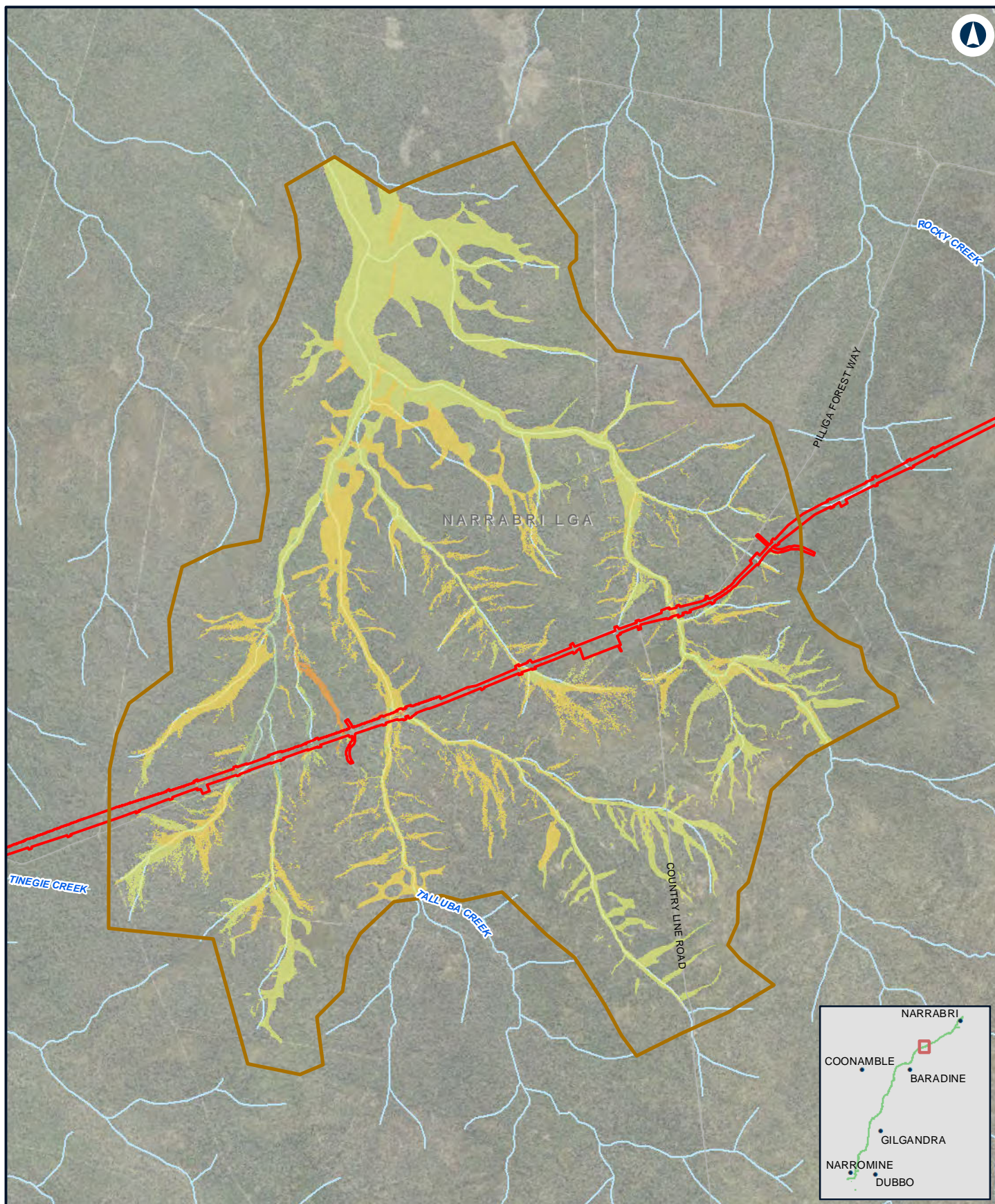
0.1 m/s - 0.5 m/s increase

0.5 m/s - 1 m/s increase

> 1 m/s increase

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Change in velocity - 1% AEP with blockage - N2N5

Appendix G - Figure 2.4j

0 1 2 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 5/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:70,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

> 1 m/s decrease

0.5 m/s - 1 m/s decrease

0.1 m/s - 0.5 m/s decrease

0 m/s - 0.1 m/s decrease

0 m/s - 0.1 m/s increase

0.1 m/s - 0.5 m/s increase

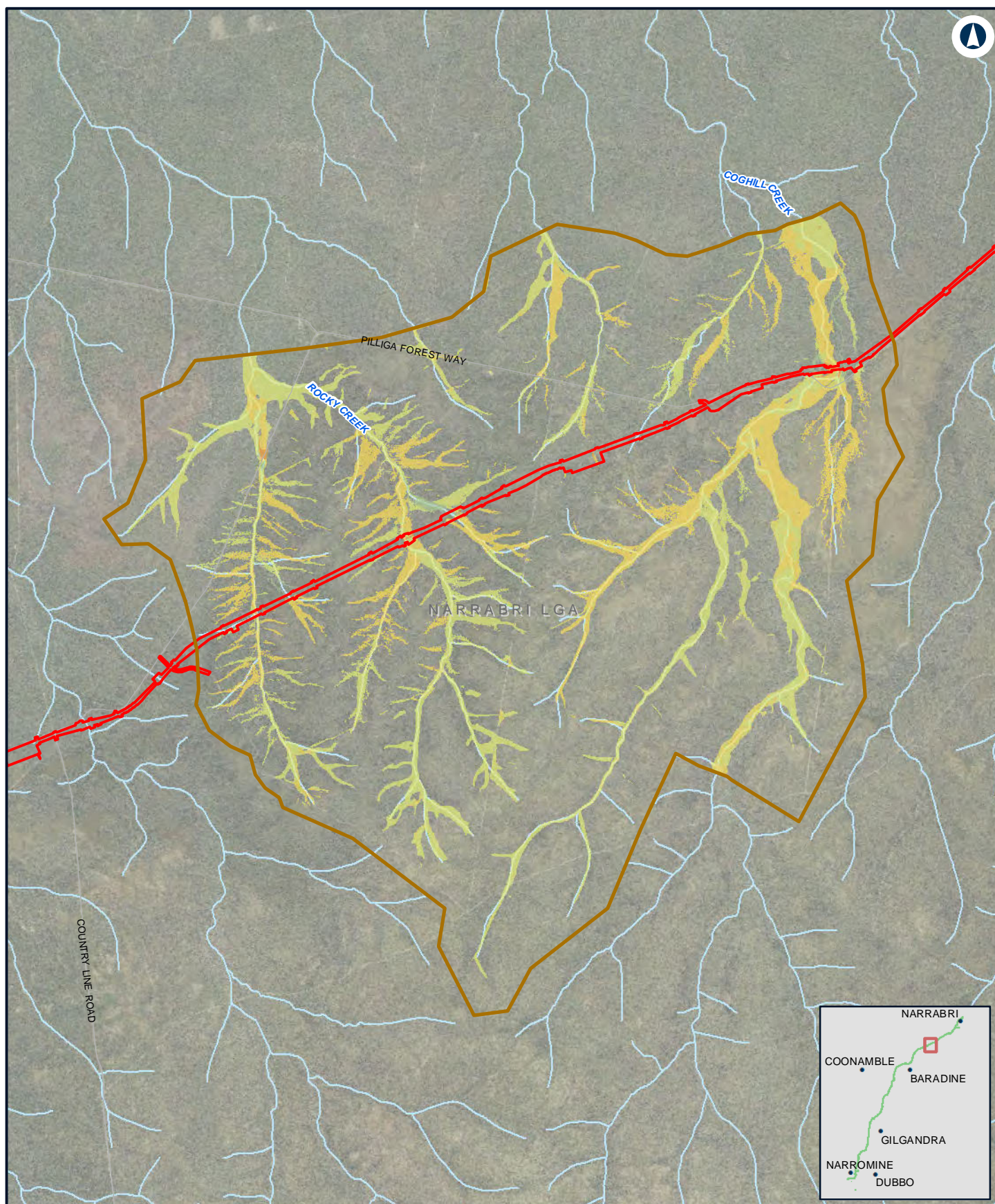
0.5 m/s - 1 m/s increase

> 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 1% AEP with blockage - N2N4

Appendix G - Figure 2.4k

0 1 2 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 5/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:80,000

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

LEGEND

- The proposal site
- Model boundary

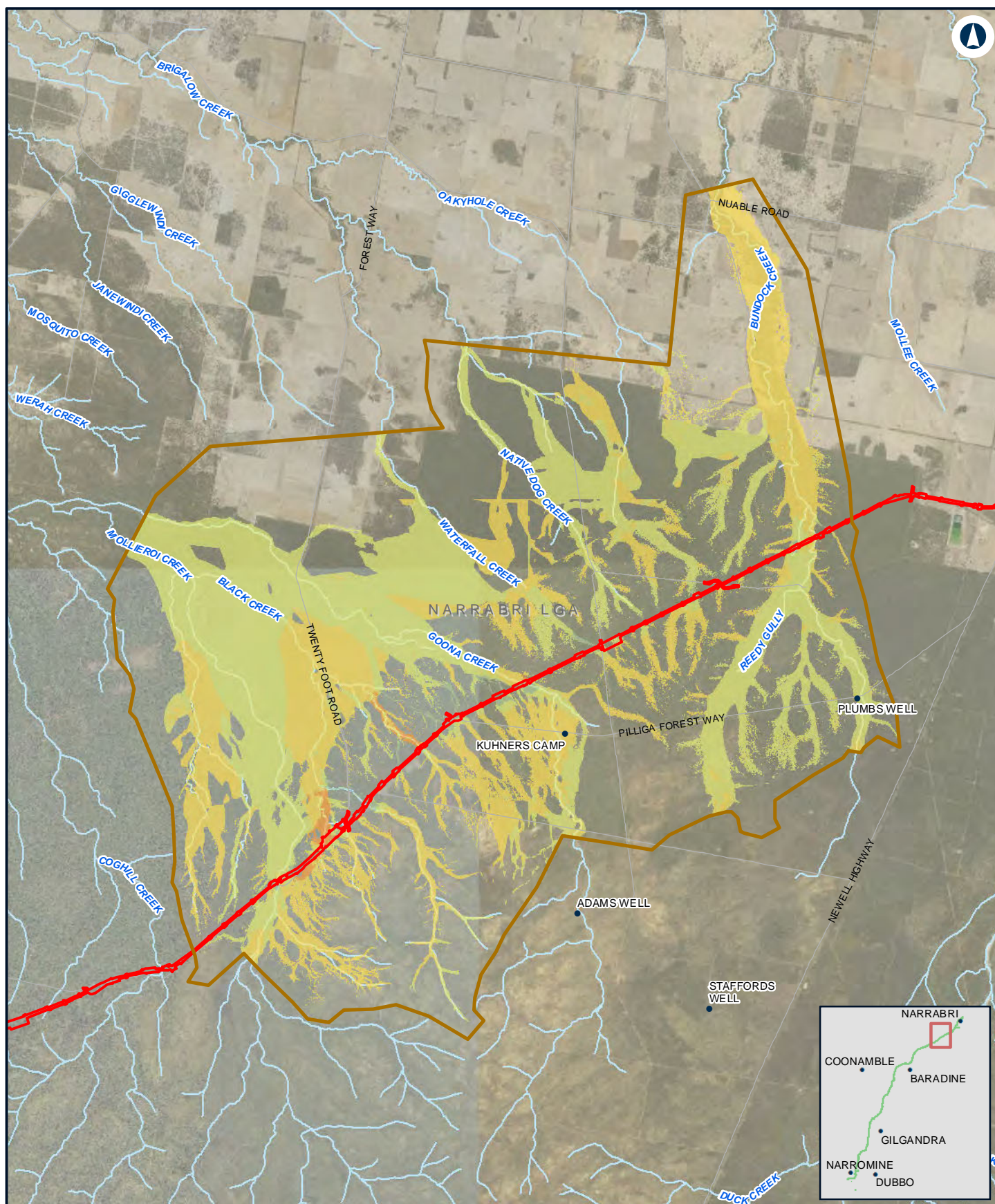
Change in Flood Velocity

- > 1 m/s decrease
- 0.5 m/s - 1 m/s decrease
- 0.1 m/s - 0.5 m/s decrease
- 0 m/s - 0.1 m/s decrease

- 0 m/s - 0.1 m/s increase
- 0.1 m/s - 0.5 m/s increase
- 0.5 m/s - 1 m/s increase
- > 1 m/s increase

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Change in velocity - 1% AEP with blockage - N2N23

Appendix G - Figure 2.4I

0 1.5 3 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 5/08/2022

Author: JacobsGHD

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

Paper: A4

Scale: 1:140,000

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

 0.1 m/s - 0.5 m/s increase

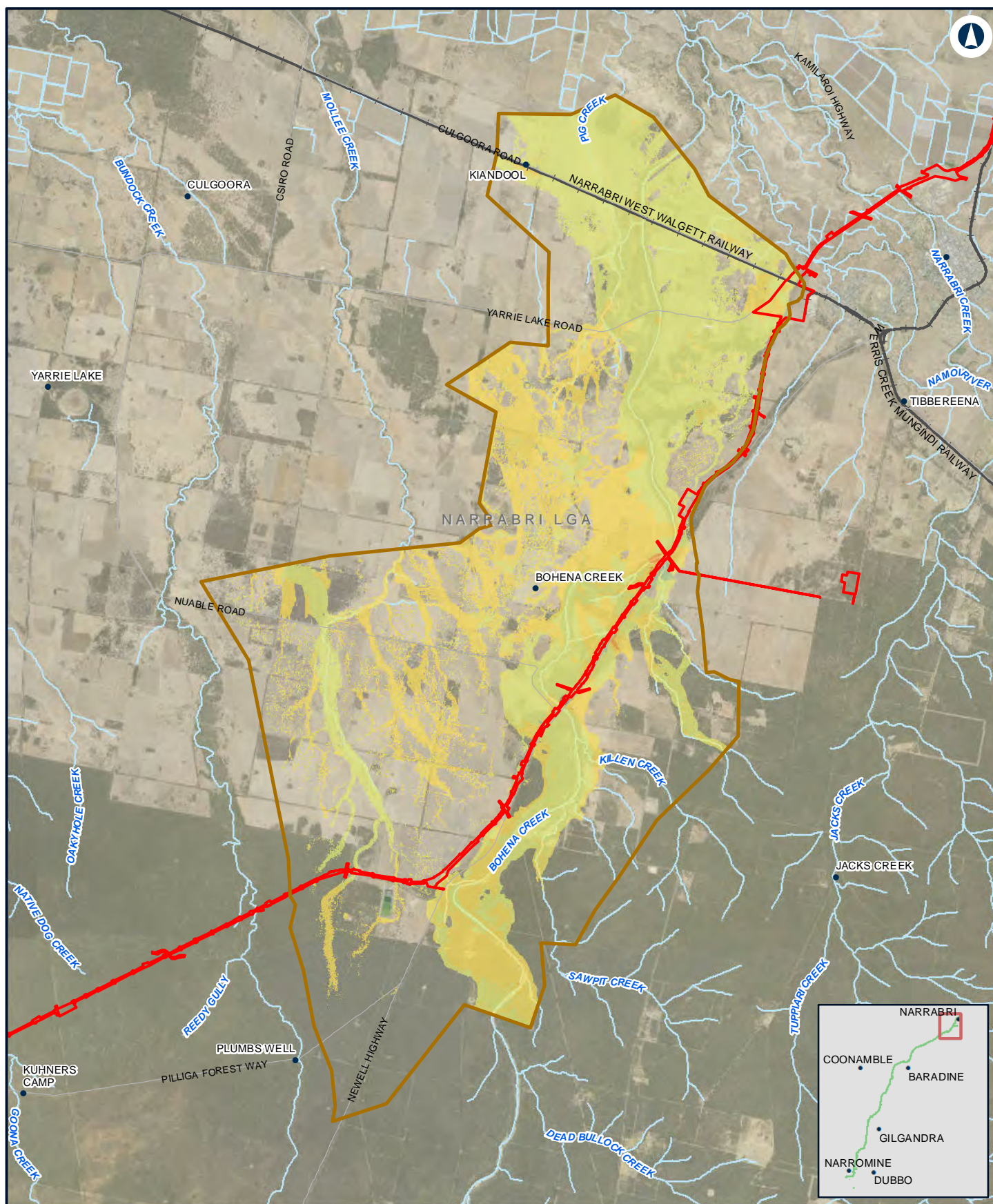
 0.5 m/s - 1 m/s increase

 > 1 m/s increase

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0 2 4 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 5/08/2022

Author: JacobsGHD

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

Paper: A4

Scale: 1:150,000

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

 0.1 m/s - 0.5 m/s increase

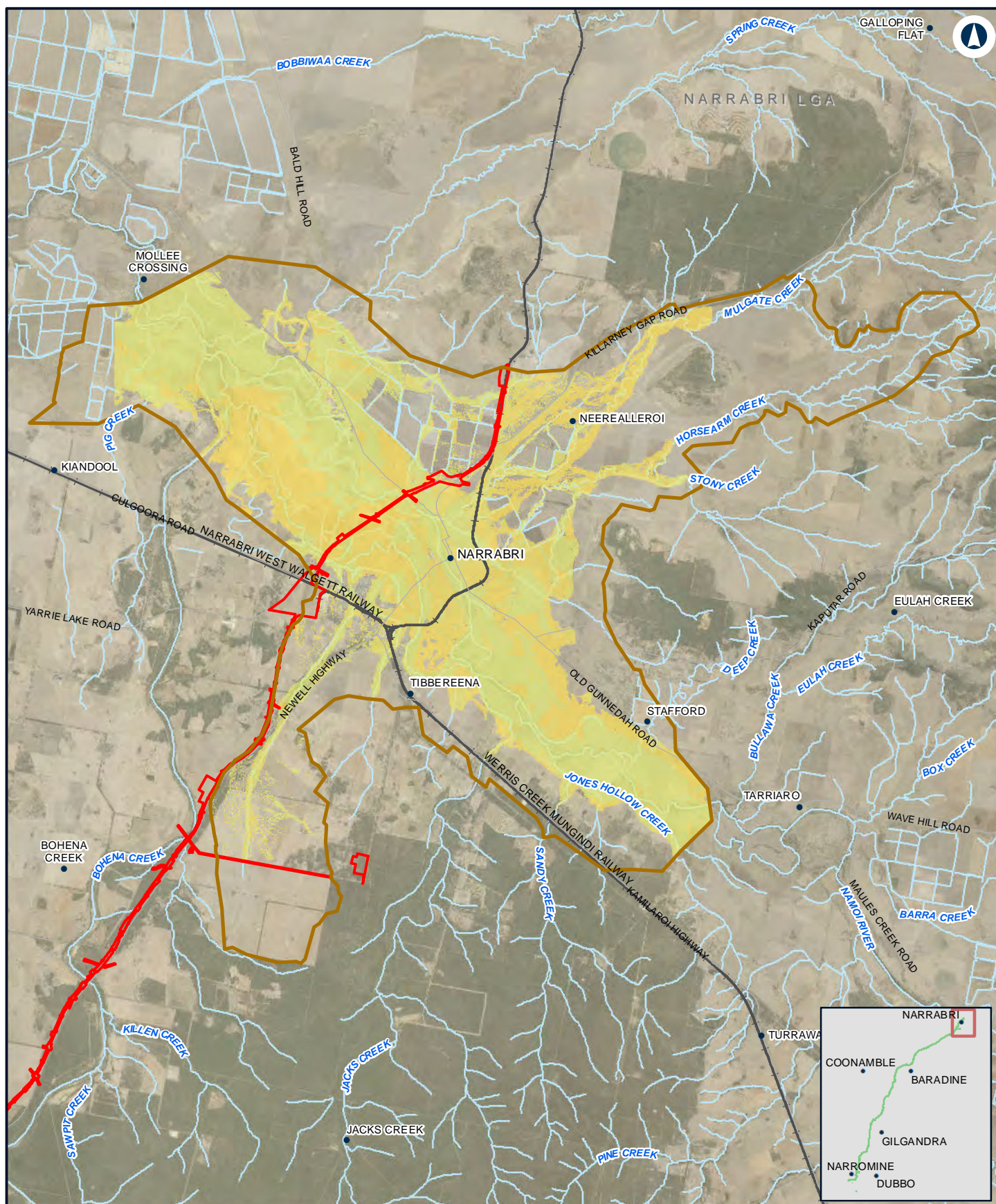
 0.5 m/s - 1 m/s increase

 > 1 m/s increase

**INLAND
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NARRABRI TO NARRABRI

Change in velocity - 1% AEP with blockage - Narrabri

Appendix G - Figure 2.4n

0 2 4 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 5/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:160,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

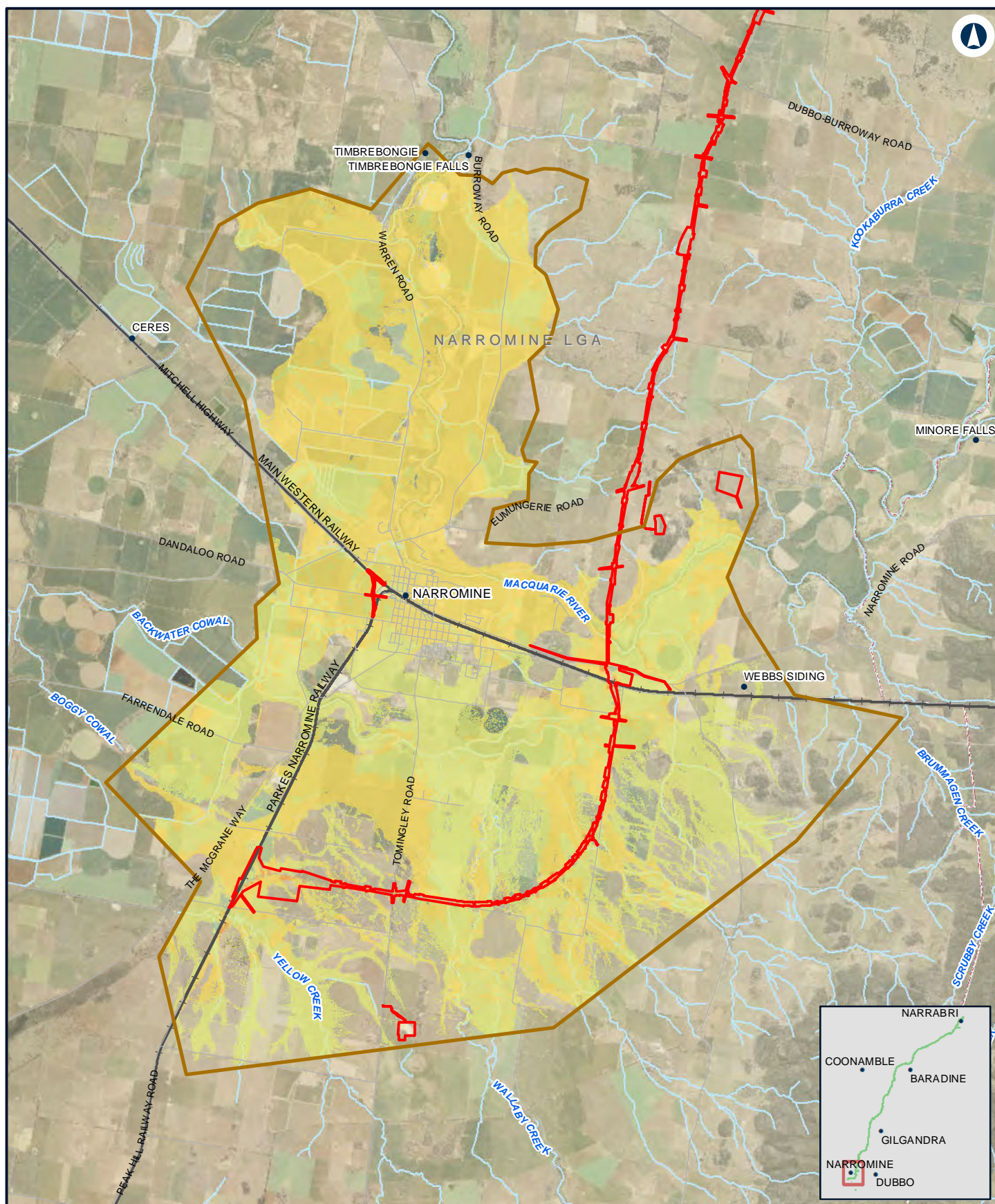
 0.1 m/s - 0.5 m/s increase

 0.5 m/s - 1 m/s increase

 > 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 1% AEP with climate change - NFM

Appendix G - Figure 2.5a

0 1.5 3 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/01/2022
Author: JacobsGHD

Paper: A4
Scale: 1:140,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

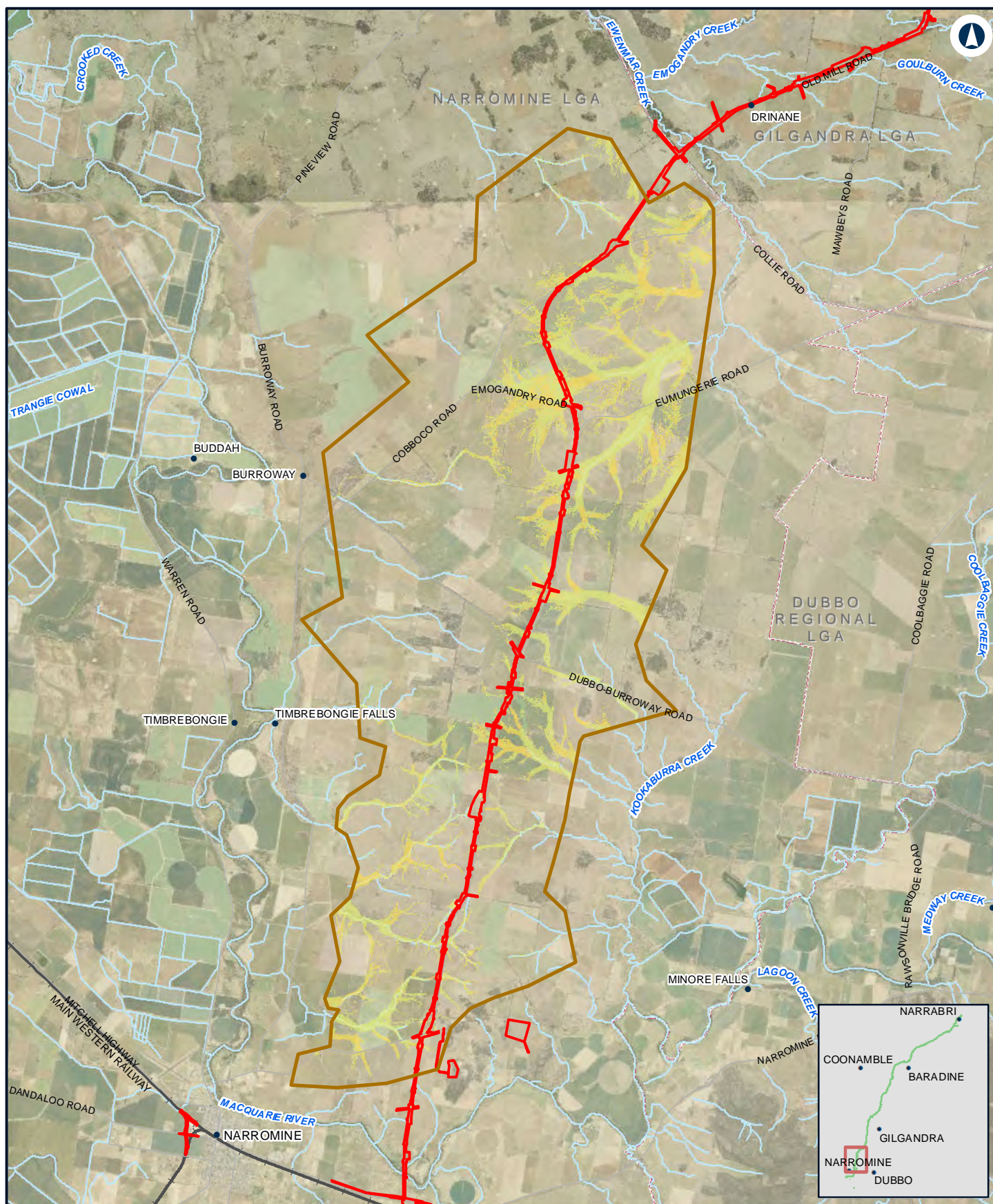
 0.1 m/s - 0.5 m/s increase

 0.5 m/s - 1 m/s increase

 > 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 1% AEP with climate change - N2N14

Appendix G - Figure 2.5b

0 2 4 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/01/2022
Author: JacobsGHD

Paper: A4
Scale: 1:150,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

> 1 m/s decrease

0.5 m/s - 1 m/s decrease

0.1 m/s - 0.5 m/s decrease

0 m/s - 0.1 m/s decrease

0 m/s - 0.1 m/s increase

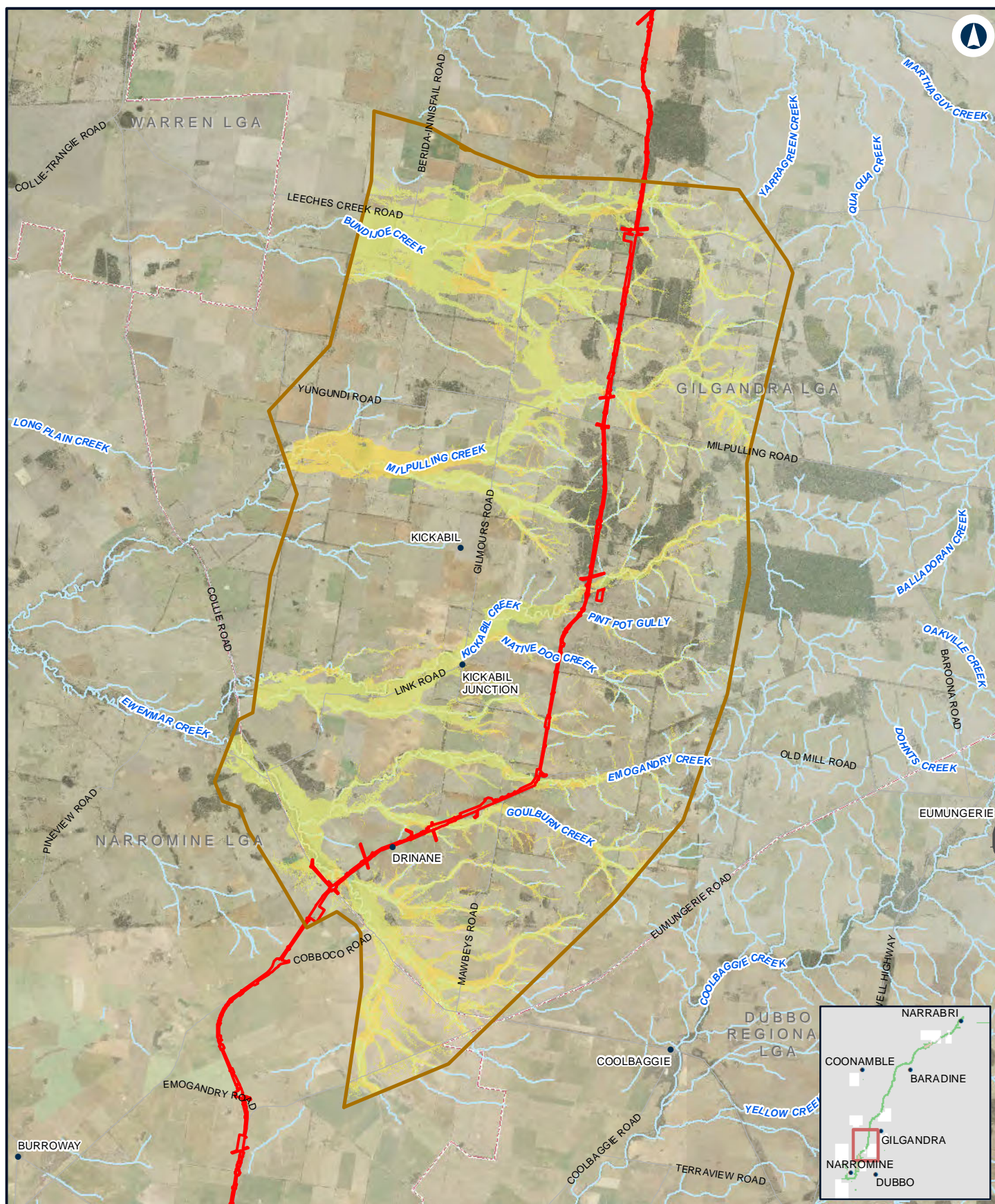
0.1 m/s - 0.5 m/s increase

0.5 m/s - 1 m/s increase

> 1 m/s increase

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Change in velocity - 1% AEP with climate change - N2N13

Appendix G - Figure 2.5c

0 2.5 5 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/01/2022
Author: JacobsGHD

Paper: A4
Scale: 1:180,000

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

LEGEND

The proposal site

Model boundary

Change in Flood Velocity

> 1 m/s decrease

0.5 m/s - 1 m/s decrease

0.1 m/s - 0.5 m/s decrease

0 m/s - 0.1 m/s decrease

0 m/s - 0.1 m/s increase

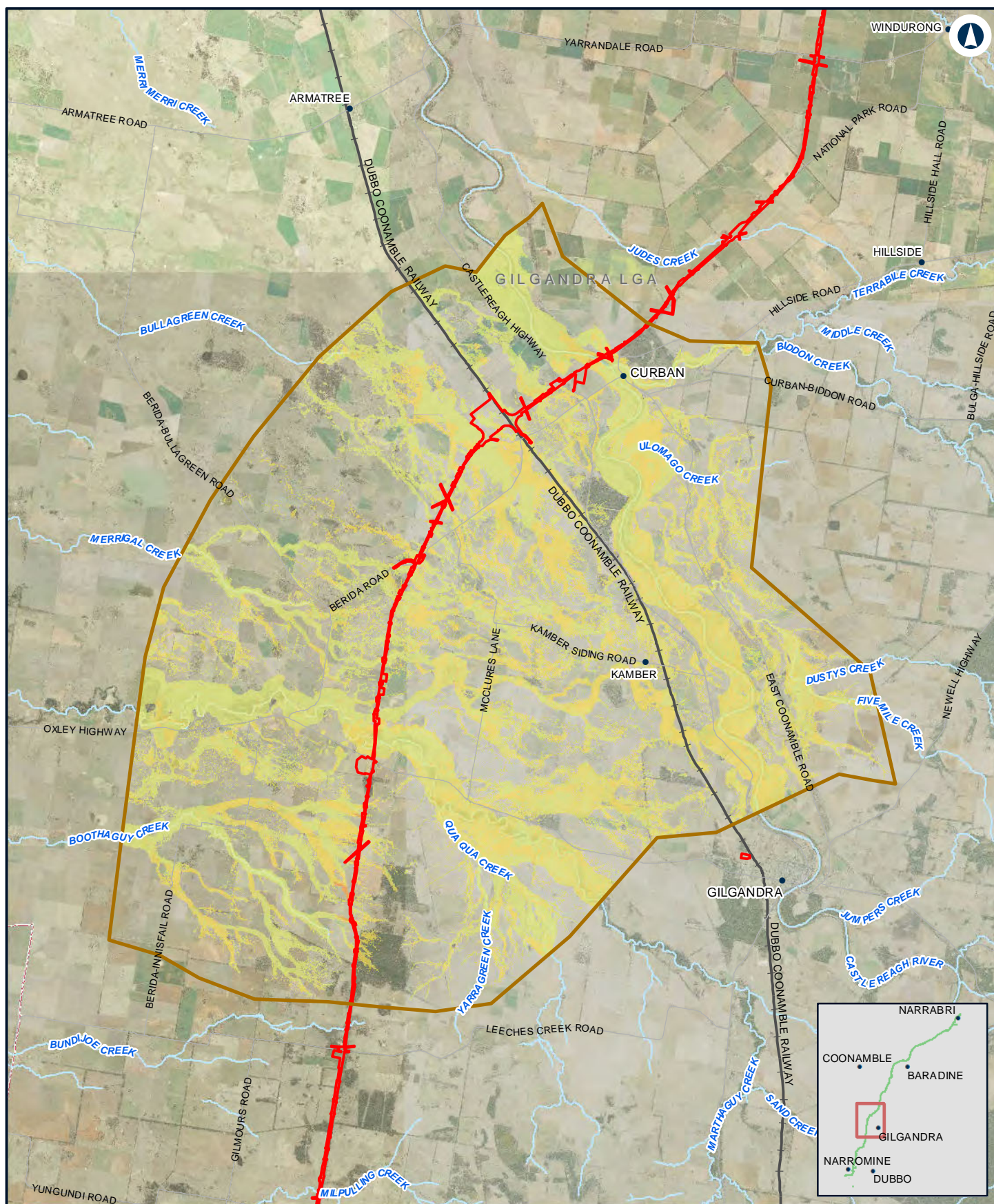
0.1 m/s - 0.5 m/s increase

0.5 m/s - 1 m/s increase

> 1 m/s increase

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

Change in velocity - 1% AEP with climate change - N2N11N12

Appendix G - Figure 2.5d

0 2.5 5
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/01/2022
Author: JacobsGHD

Paper: A4
Scale: 1:200,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

> 1 m/s decrease

0.5 m/s - 1 m/s decrease

0.1 m/s - 0.5 m/s decrease

0 m/s - 0.1 m/s decrease

0 m/s - 0.1 m/s increase

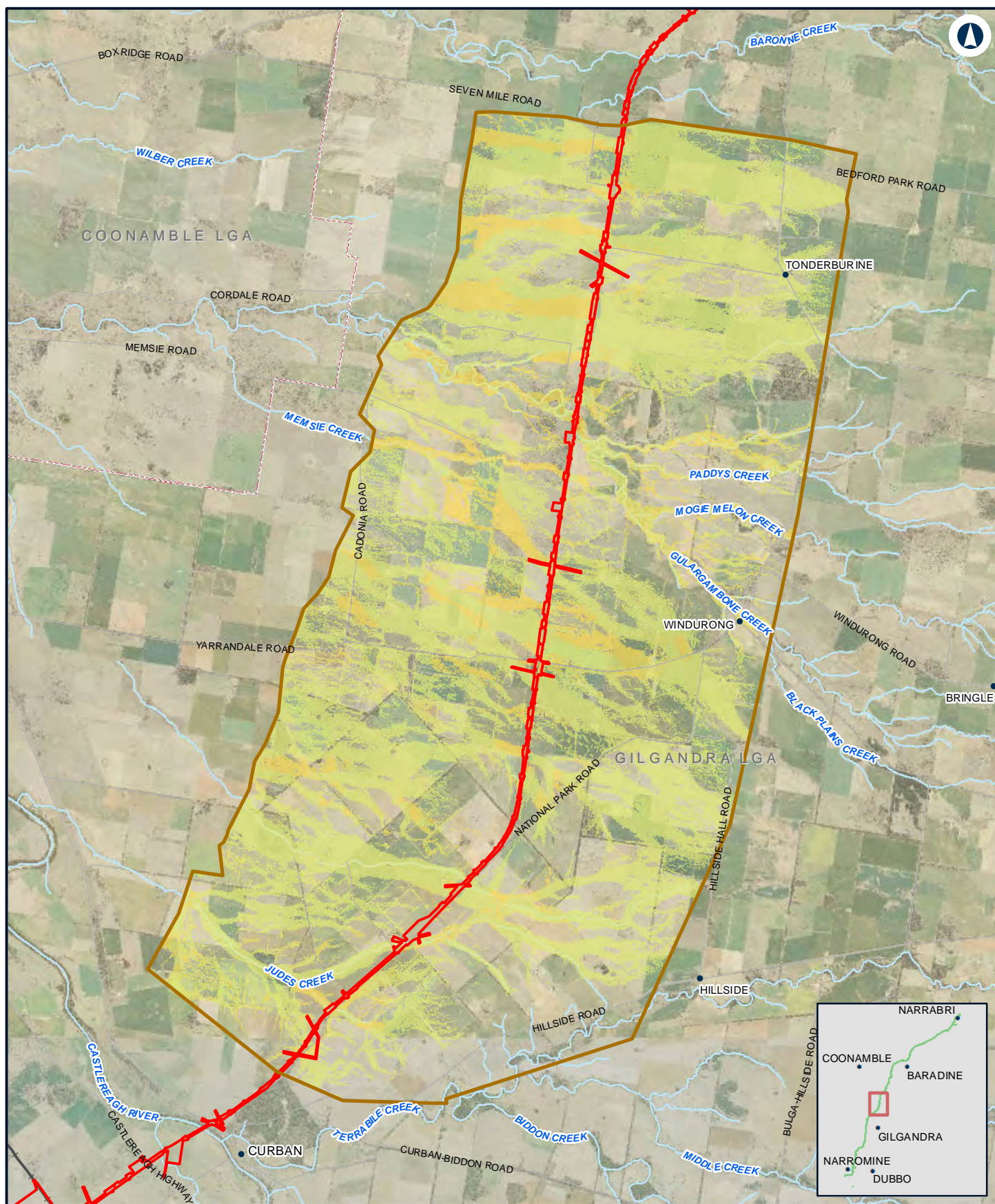
0.1 m/s - 0.5 m/s increase

0.5 m/s - 1 m/s increase

> 1 m/s increase

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Change in velocity - 1% AEP with climate change - N2N10

Appendix G - Figure 2.5e

0 1.5 3
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/01/2022
Author: JacobsGHD

Paper: A4
Scale: 1:130,000

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

LEGEND

- The proposal site
- Model boundary

Change in Flood Velocity

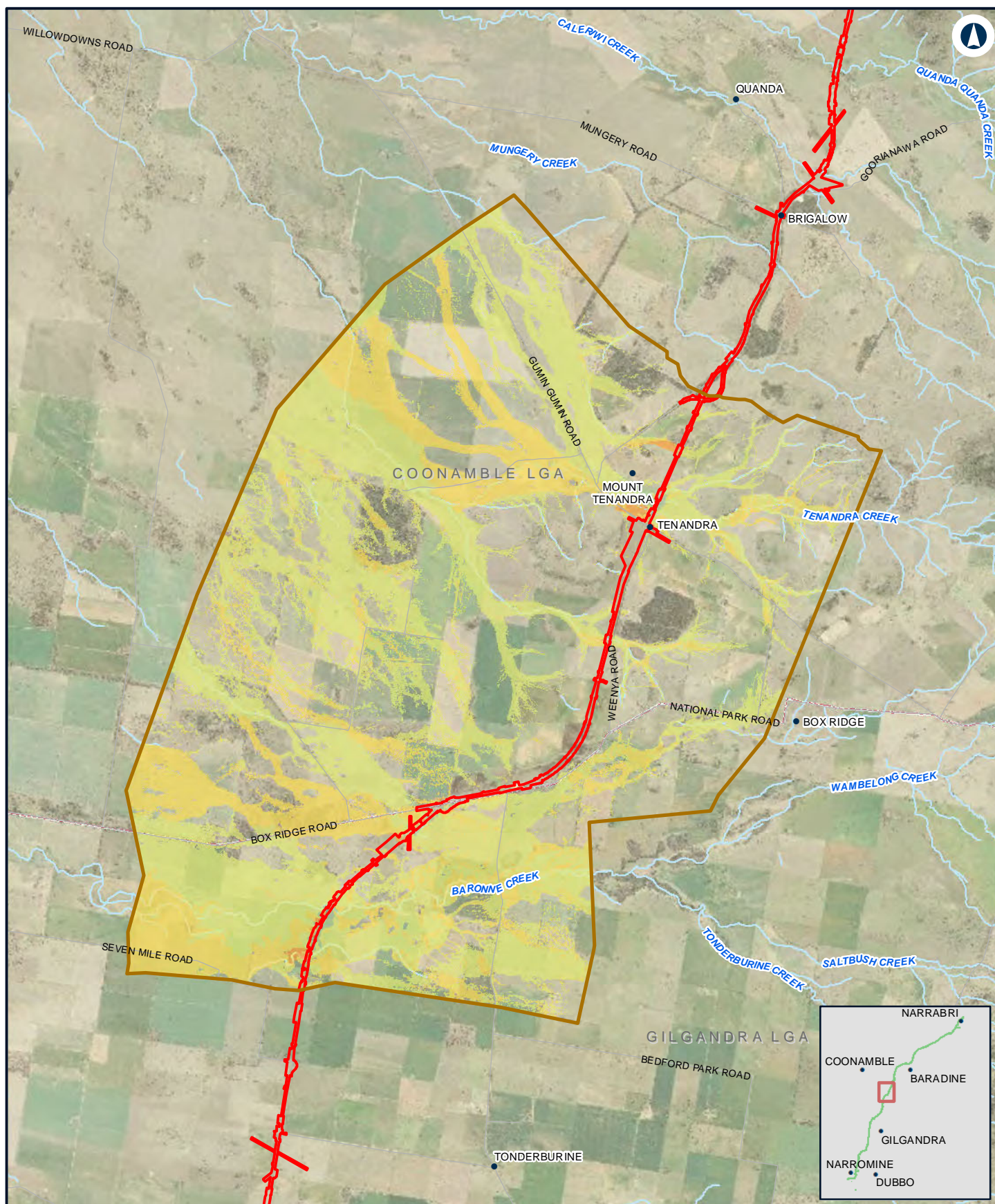
- > 1 m/s decrease
- 0.5 m/s - 1 m/s decrease
- 0.1 m/s - 0.5 m/s decrease
- 0 m/s - 0.1 m/s decrease

- 0 m/s - 0.1 m/s increase
- 0.1 m/s - 0.5 m/s increase
- 0.5 m/s - 1 m/s increase
- > 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 1% AEP with climate change - N2N9

Appendix G - Figure 2.5f

0 1.5 3 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/01/2022
Author: JacobsGHD

Paper: A4
Scale: 1:110,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

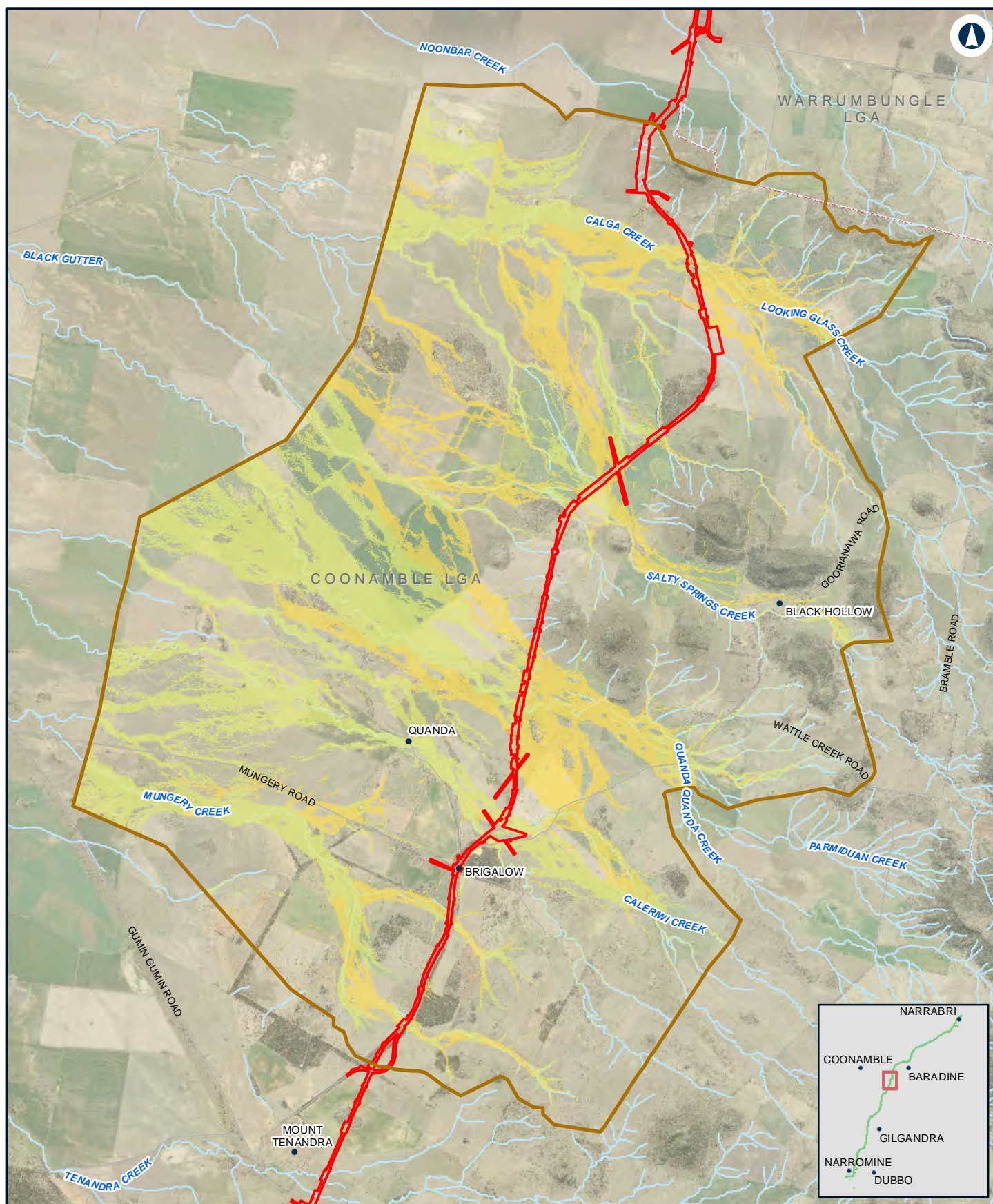
 0.1 m/s - 0.5 m/s increase

 0.5 m/s - 1 m/s increase

 > 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 1% AEP with climate change - N2N8

Appendix G - Figure 2.5g

0 1 2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/01/2022
Author: JacobsGHD

Paper: A4
Scale: 1:100,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

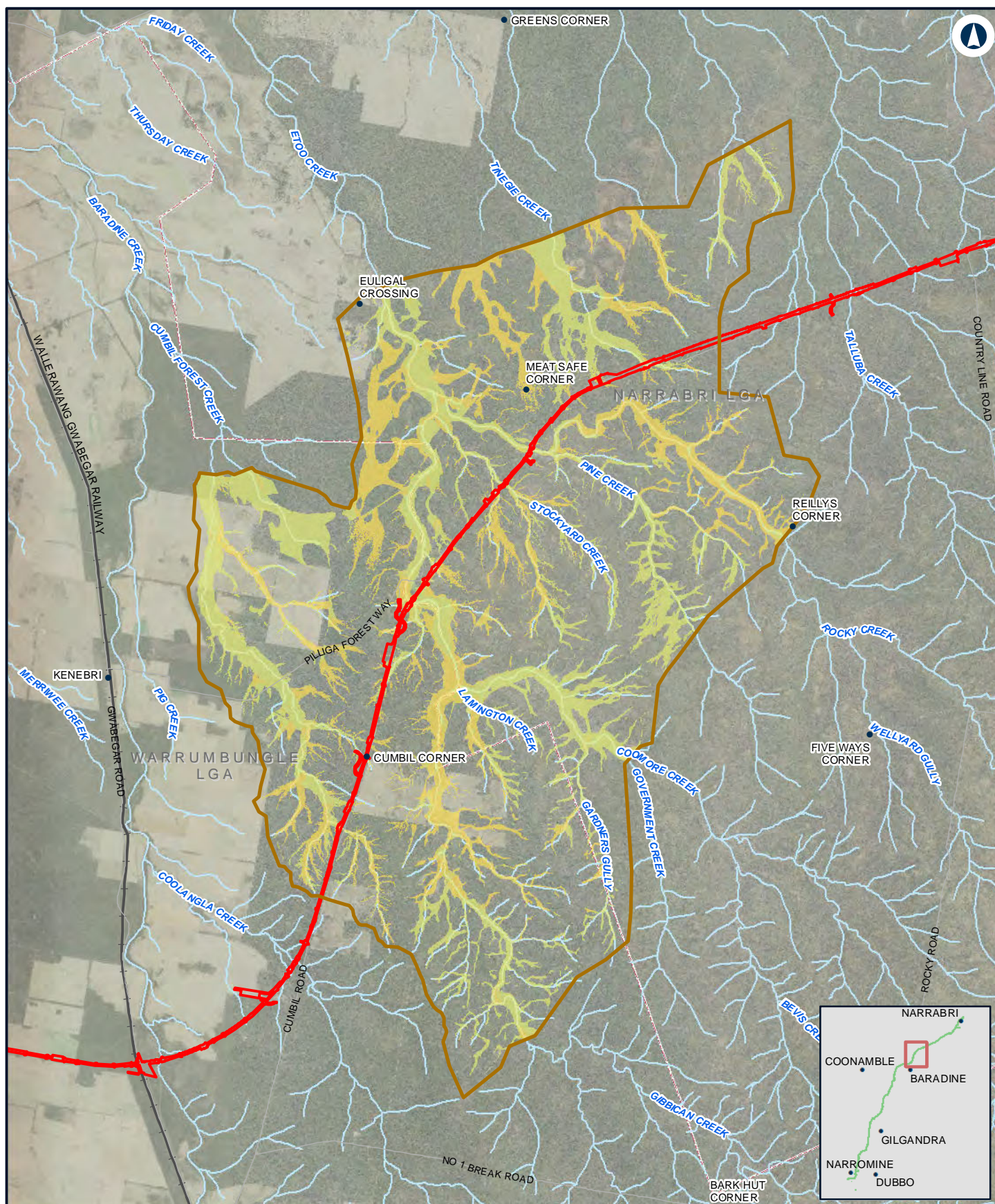
 0.1 m/s - 0.5 m/s increase

 0.5 m/s - 1 m/s increase

 > 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 1% AEP with climate change - N2N6

Appendix G - Figure 2.5i

0 2 4 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/01/2022
Author: JacobsGHD

Paper: A4
Scale: 1:150,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

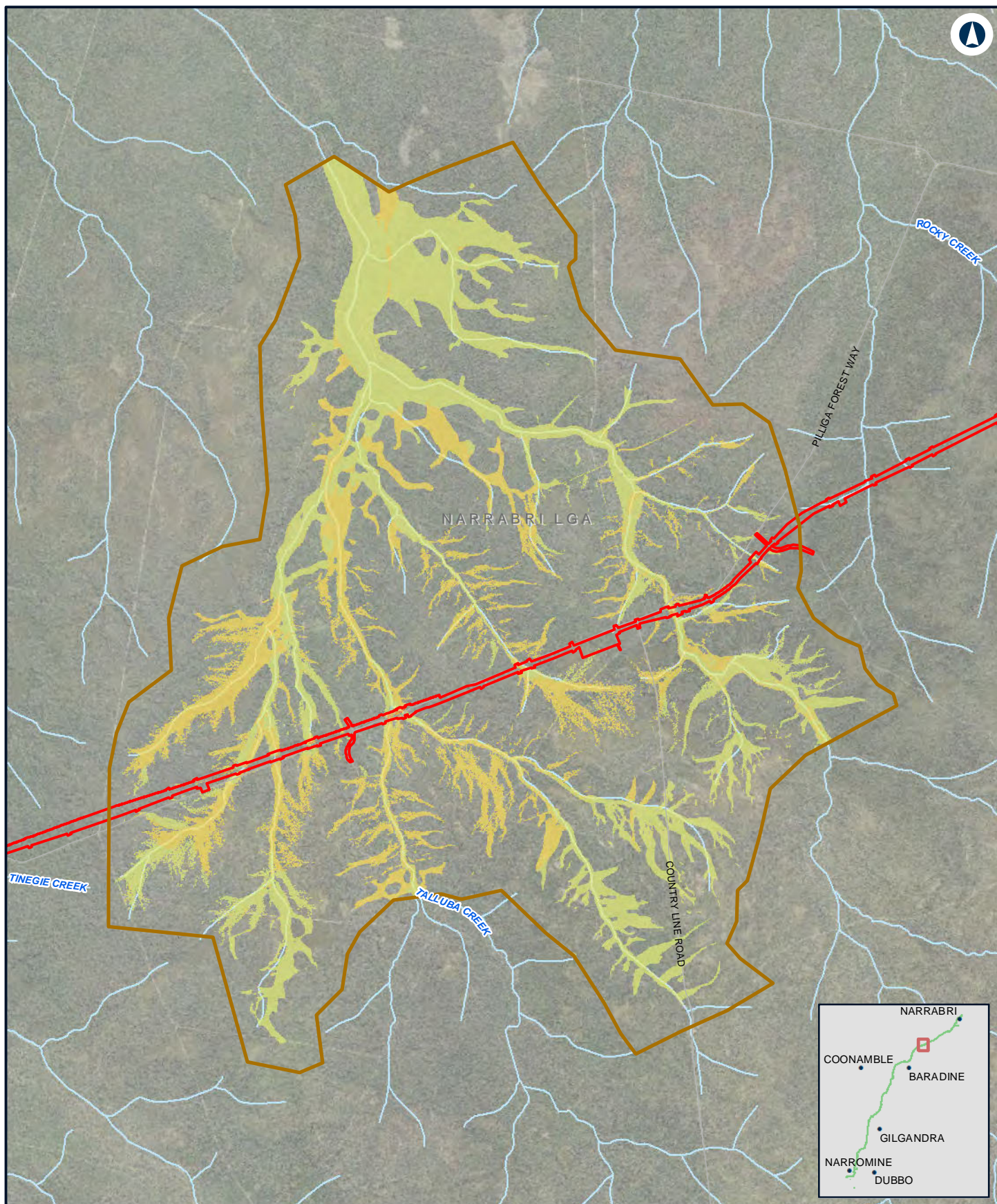
 0.1 m/s - 0.5 m/s increase

 0.5 m/s - 1 m/s increase

 > 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 1% AEP with climate change - N2N5

Appendix G - Figure 2.5j

0 1 2 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/01/2022
Author: JacobsGHD

Paper: A4
Scale: 1:70,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

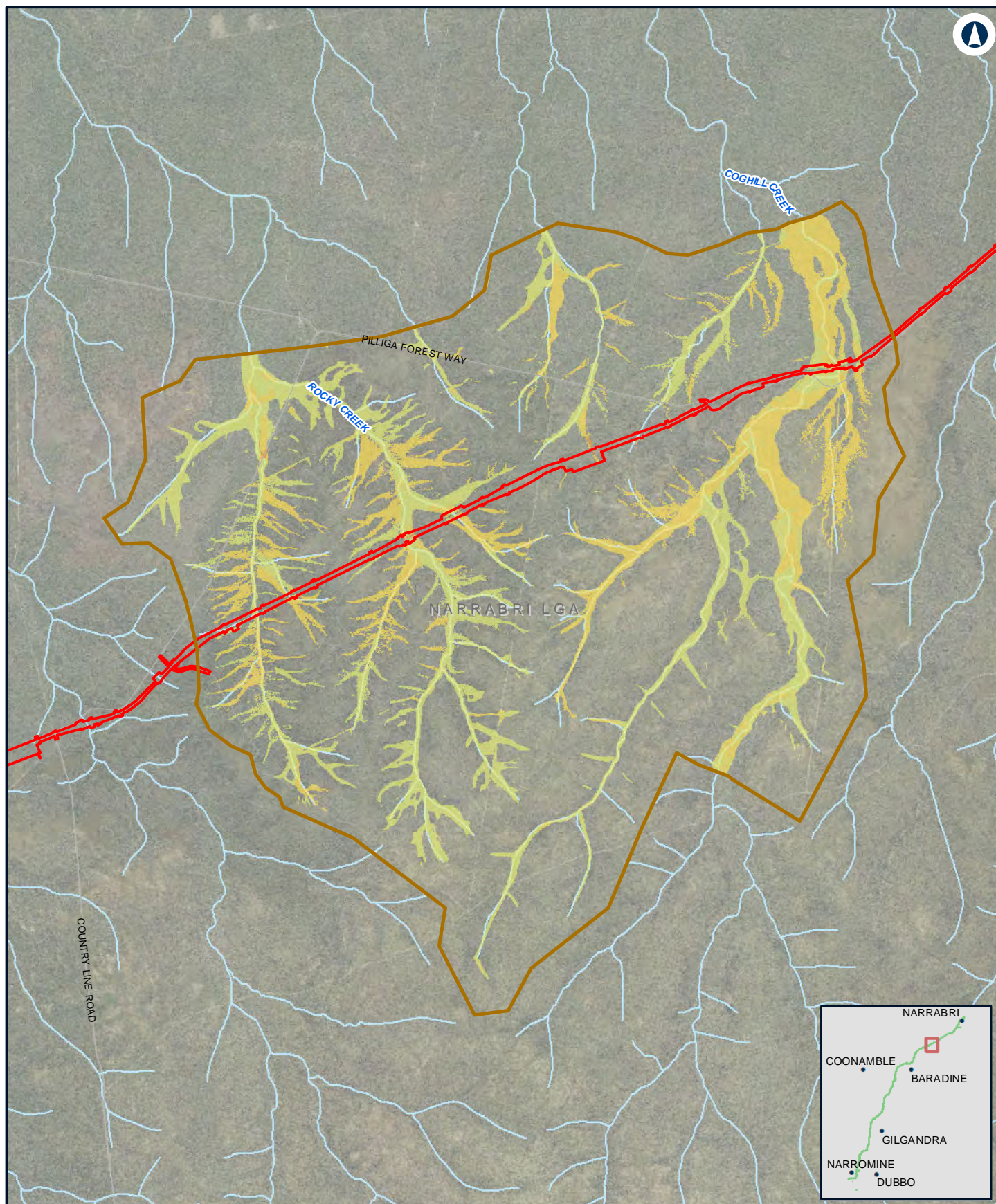
 0.1 m/s - 0.5 m/s increase

 0.5 m/s - 1 m/s increase

 > 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 1% AEP with climate change - N2N4

Appendix G - Figure 2.5k

0 1 2 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/01/2022
Author: JacobsGHD

Paper: A4
Scale: 1:80,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

 0.1 m/s - 0.5 m/s increase

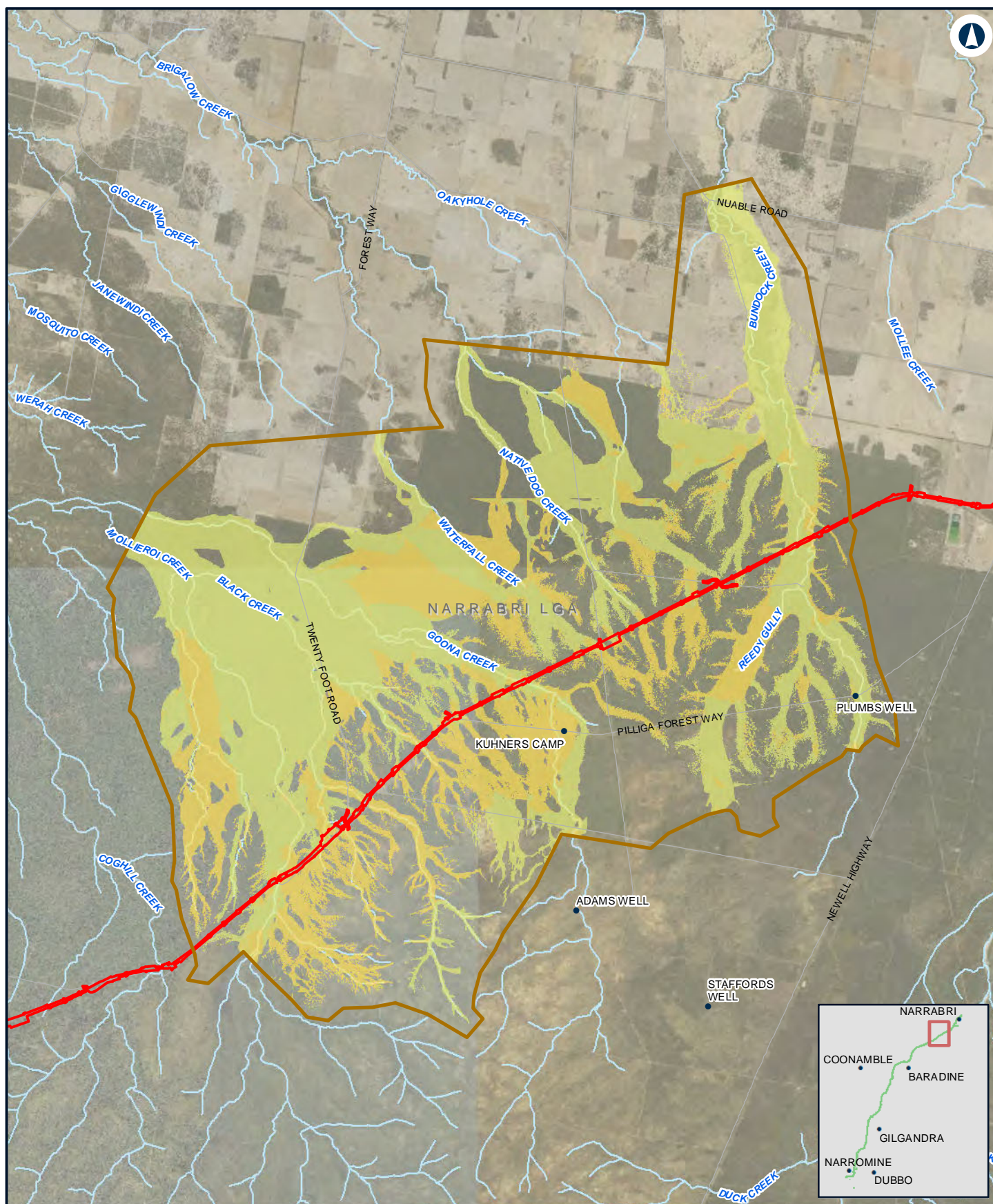
 0.5 m/s - 1 m/s increase

 > 1 m/s increase

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NARRABRI TO NARRABRI

Change in velocity - 1% AEP with climate change - N2N23

Appendix G - Figure 2.5I

0 1.5 3 Km

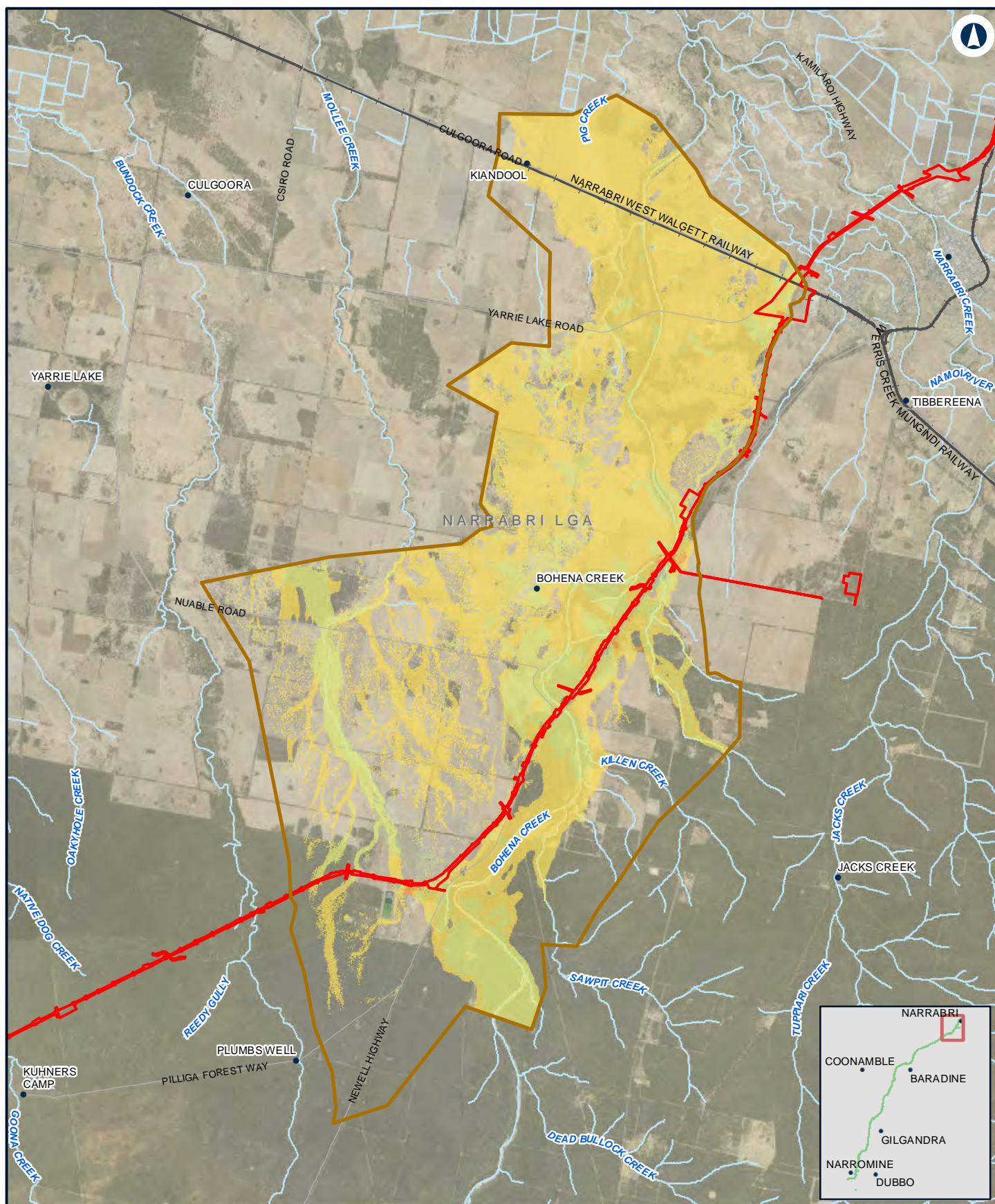
Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/01/2022
Author: JacobsGHD

Paper: A4
Scale: 1:140,000

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



NARROMINE TO NARRABRI

Change in velocity - 1% AEP with climate change - N2N1

Appendix G - Figure 2.5m

0 2 4 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/01/2022
Author: JacobsGHD

Paper: A4
Scale: 1:150,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

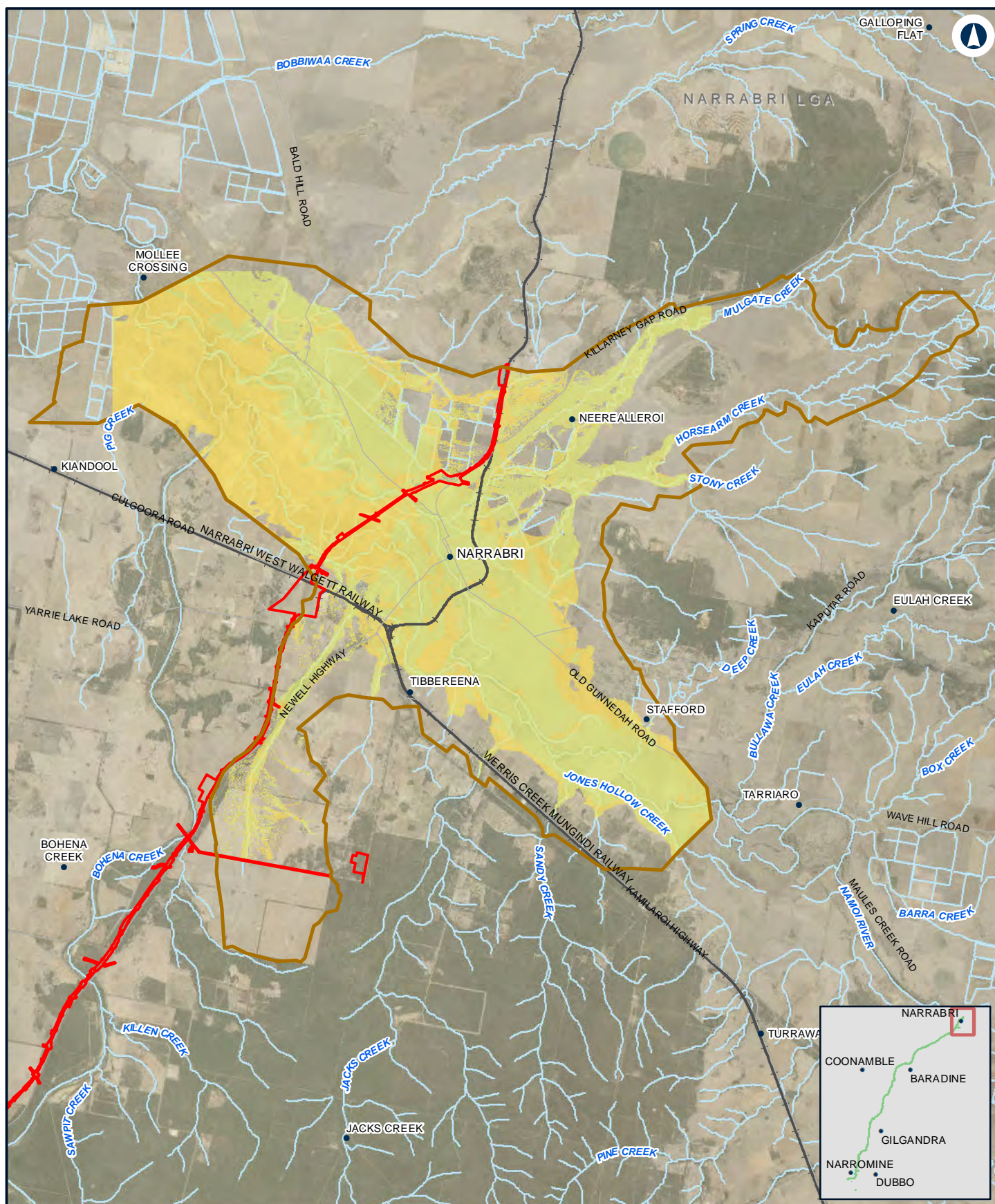
 0.1 m/s - 0.5 m/s increase

 0.5 m/s - 1 m/s increase

 > 1 m/s increase

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NARRABRI TO NARRABRI

Change in velocity - 1% AEP with climate change - Narrabri

Appendix G - Figure 2.5n

0 2 4 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/01/2022

Paper: A4

Author: JacobsGHD

Scale: 1:160,000

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

LEGEND

The proposal site

Model boundary

Change in Flood Velocity

> 1 m/s decrease

0.5 m/s - 1 m/s decrease

0.1 m/s - 0.5 m/s decrease

0 m/s - 0.1 m/s decrease

0 m/s - 0.1 m/s increase

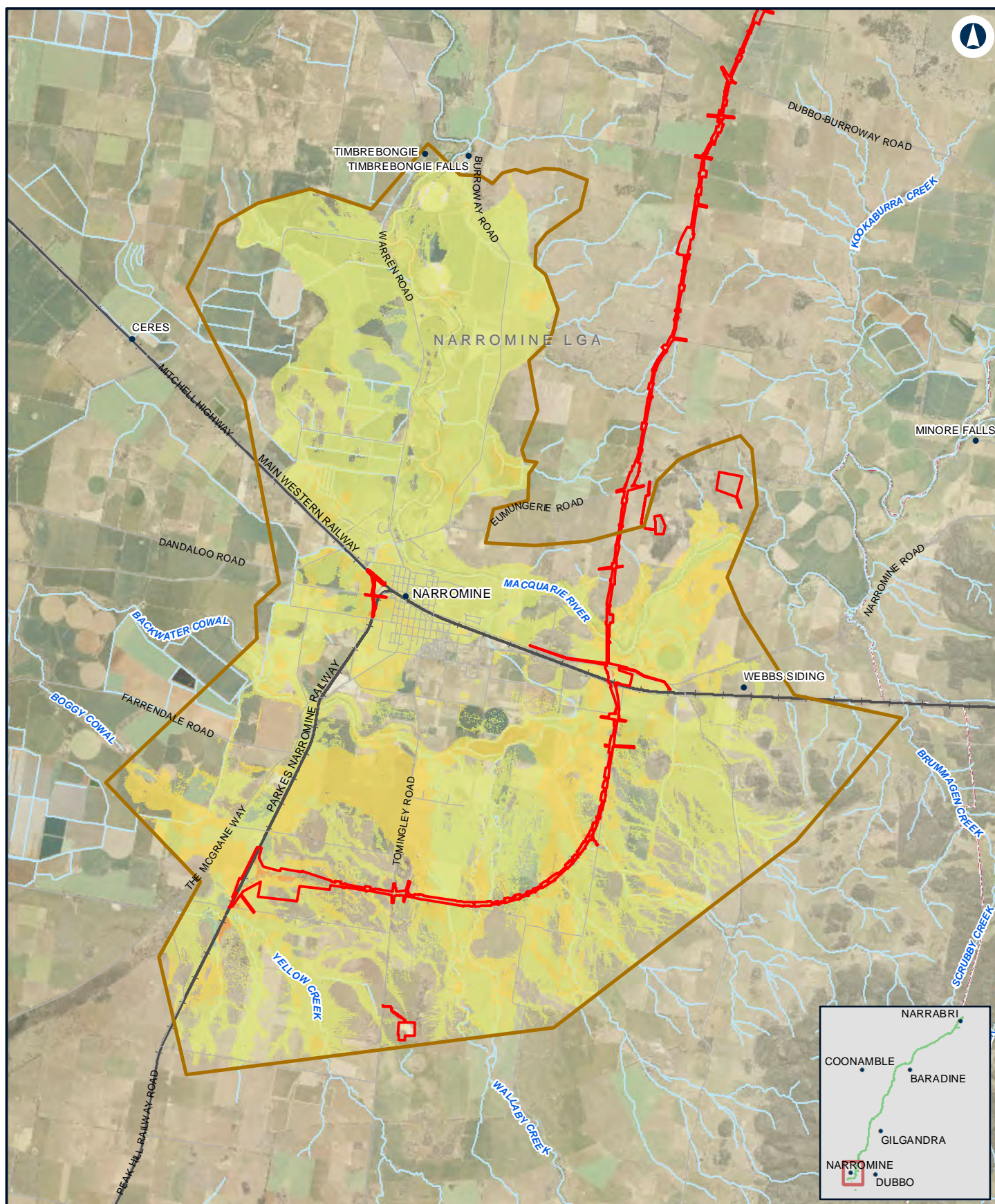
0.1 m/s - 0.5 m/s increase

0.5 m/s - 1 m/s increase

> 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 1% AEP - NFM

Appendix G - Figure 2.6a

0 1.5 3 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 5/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:140,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

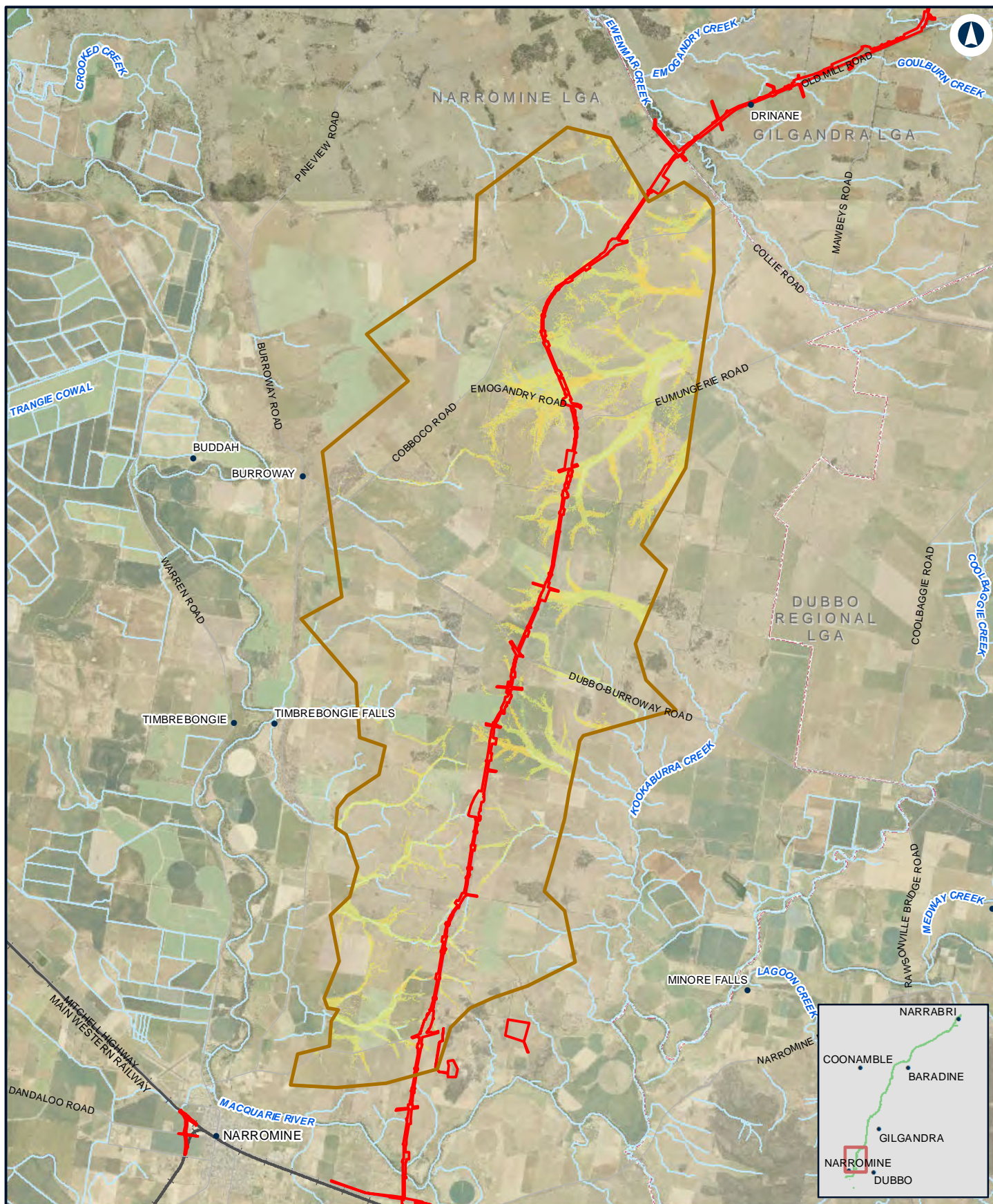
 0.1 m/s - 0.5 m/s increase

 0.5 m/s - 1 m/s increase

 > 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 1% AEP - N2N14

Appendix G - Figure 2.6b

0 2 4 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 5/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:150,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

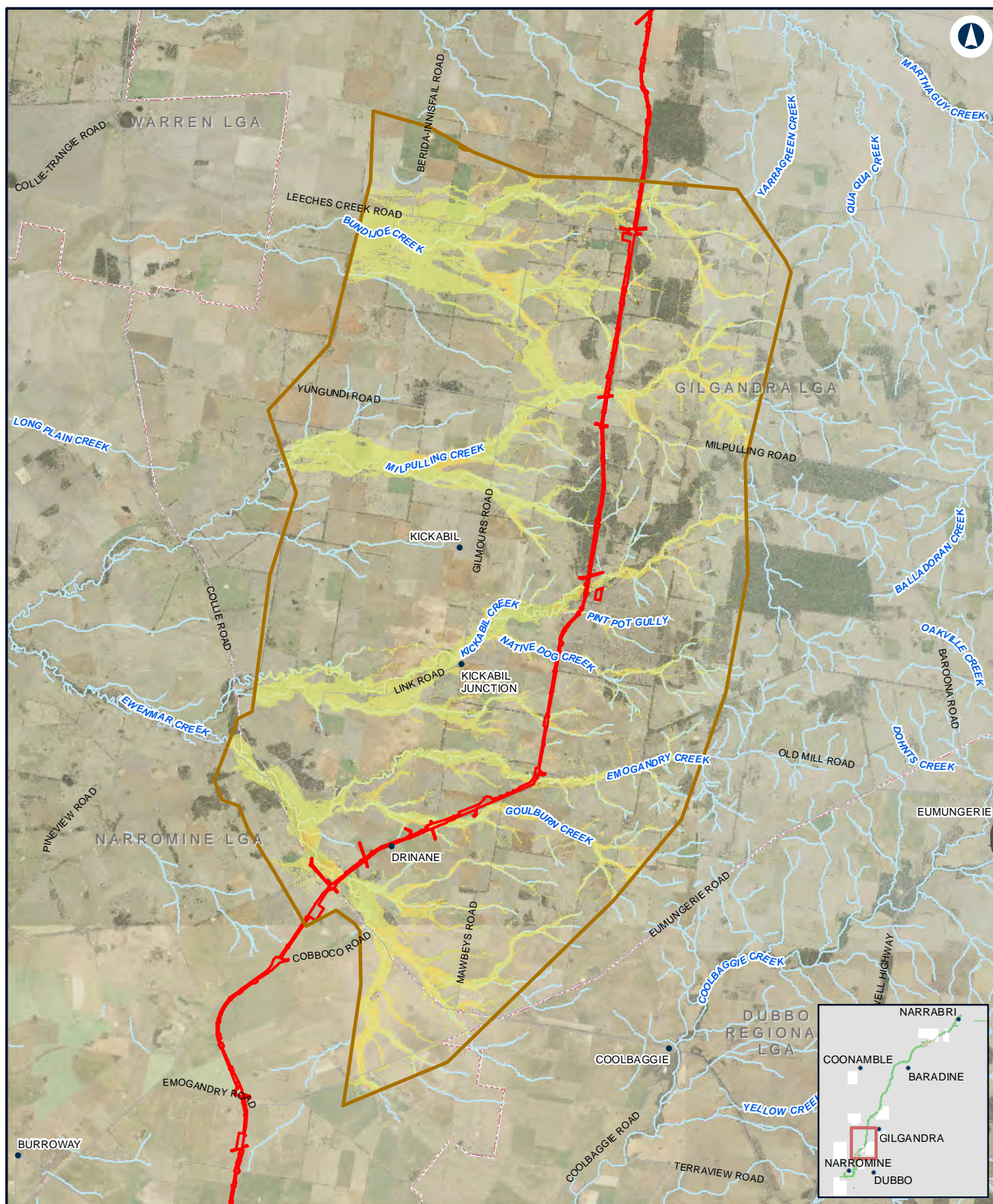
 0.1 m/s - 0.5 m/s increase

 0.5 m/s - 1 m/s increase

 > 1 m/s increase

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Change in velocity - 1% AEP - N2N13

Appendix G - Figure 2.6c

0 2.5 5 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 5/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:180,000

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

LEGEND

- The proposal site
- Model boundary

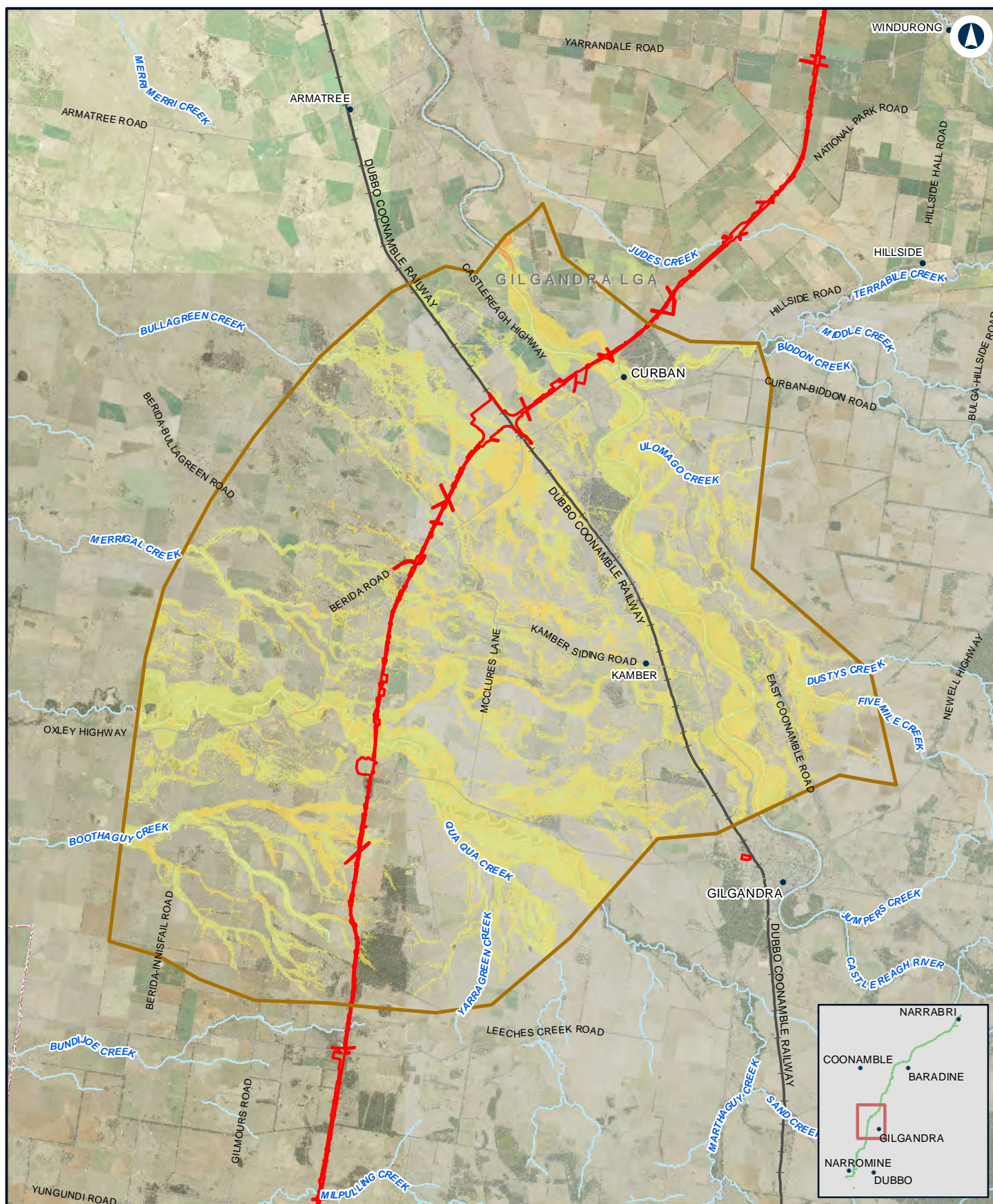
Change in Flood Velocity

- > 1 m/s decrease
- 0.5 m/s - 1 m/s decrease
- 0.1 m/s - 0.5 m/s decrease
- 0 m/s - 0.1 m/s decrease

- 0 m/s - 0.1 m/s increase
- 0.1 m/s - 0.5 m/s increase
- 0.5 m/s - 1 m/s increase
- > 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 1% AEP - N2N11N12

Appendix G - Figure 2.6d

0 2.5 5
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 5/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:200,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

> 1 m/s decrease

0.5 m/s - 1 m/s decrease

0.1 m/s - 0.5 m/s decrease

0 m/s - 0.1 m/s decrease

0 m/s - 0.1 m/s increase

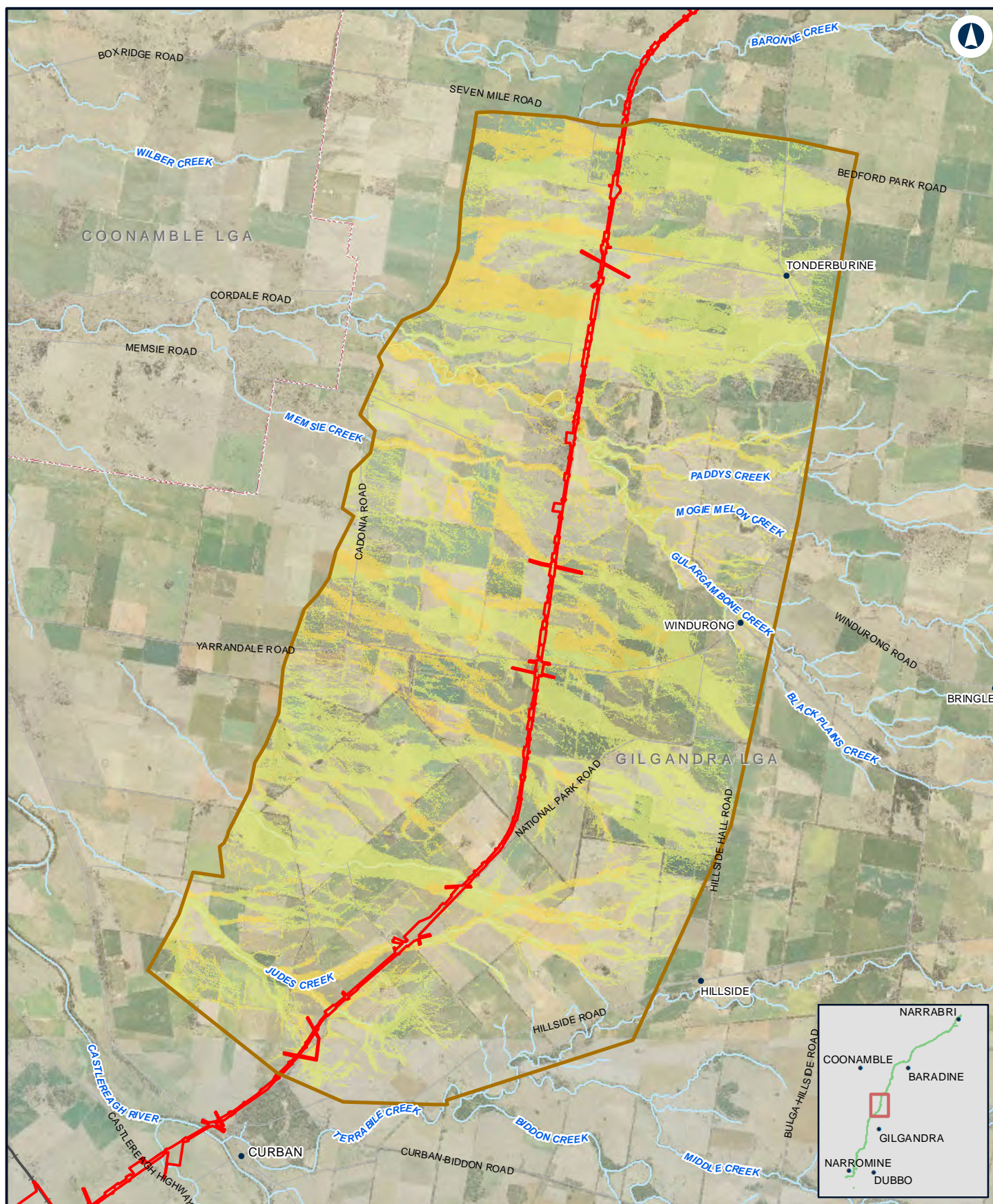
0.1 m/s - 0.5 m/s increase

0.5 m/s - 1 m/s increase

> 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 1% AEP - N2N10

Appendix G - Figure 2.6e

0 1.5 3
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 5/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:130,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

 0.1 m/s - 0.5 m/s increase

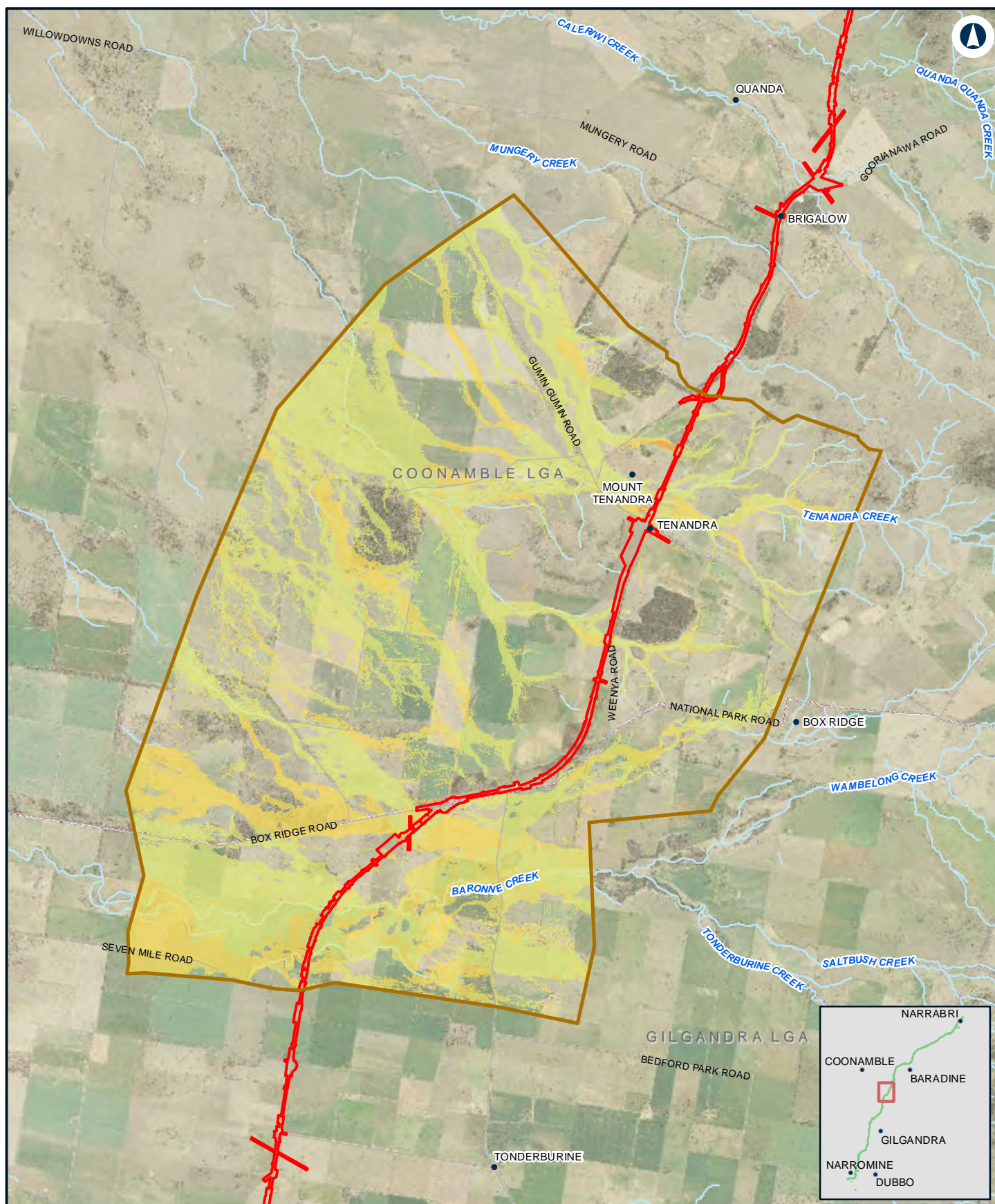
 0.5 m/s - 1 m/s increase

 > 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 1% AEP - N2N9

Appendix G - Figure 2.6f

0 1.5 3 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 5/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:110,000

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

LEGEND

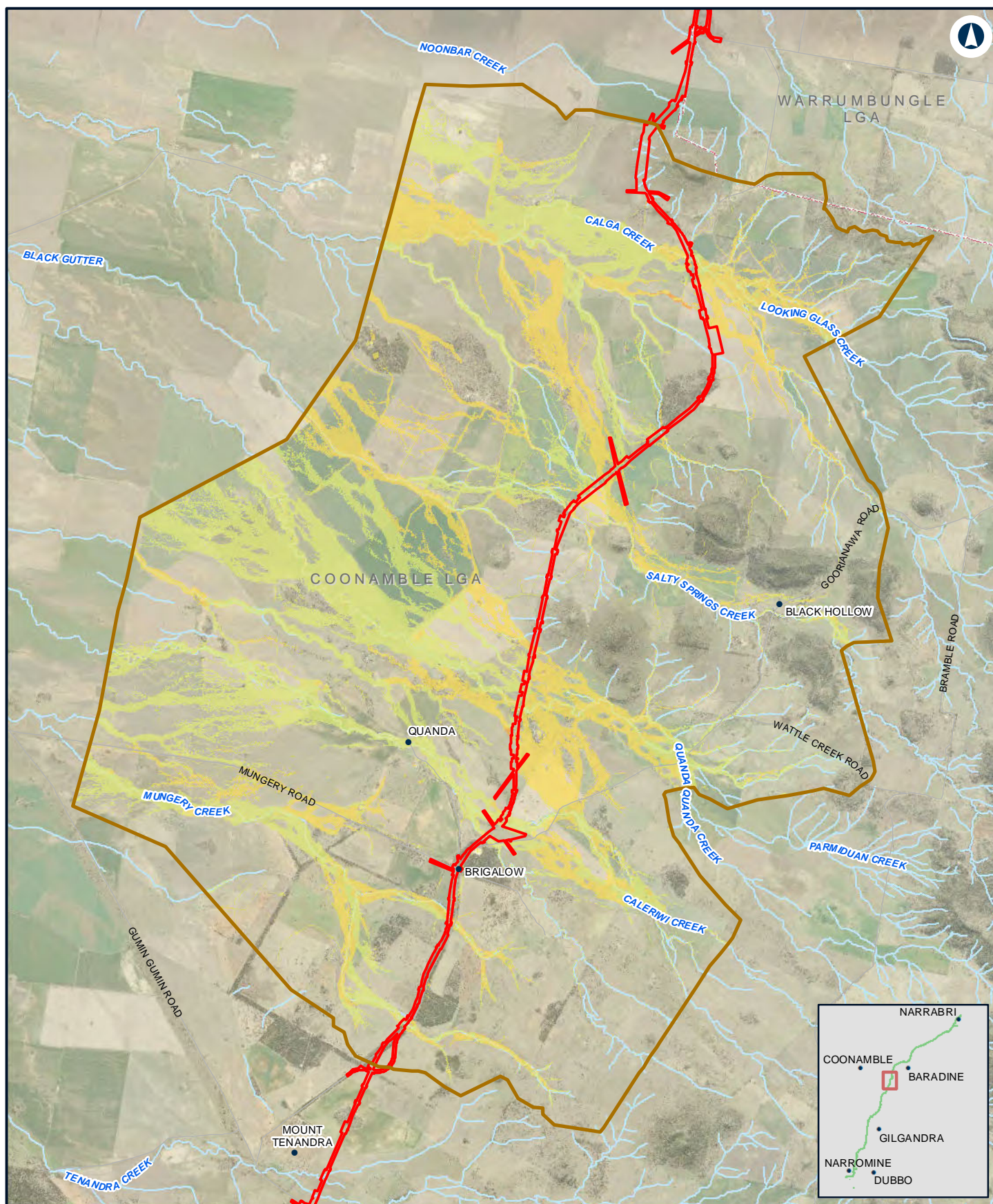
- The proposal site
- Model boundary

Change in Flood Velocity

- > 1 m/s decrease
- 0.5 m/s - 1 m/s decrease
- 0.1 m/s - 0.5 m/s decrease
- 0 m/s - 0.1 m/s decrease
- 0 m/s - 0.1 m/s increase
- 0.1 m/s - 0.5 m/s increase
- 0.5 m/s - 1 m/s increase
- > 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 1% AEP - N2N8

Appendix G - Figure 2.6g

0 1 2 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 5/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:100,000

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

LEGEND

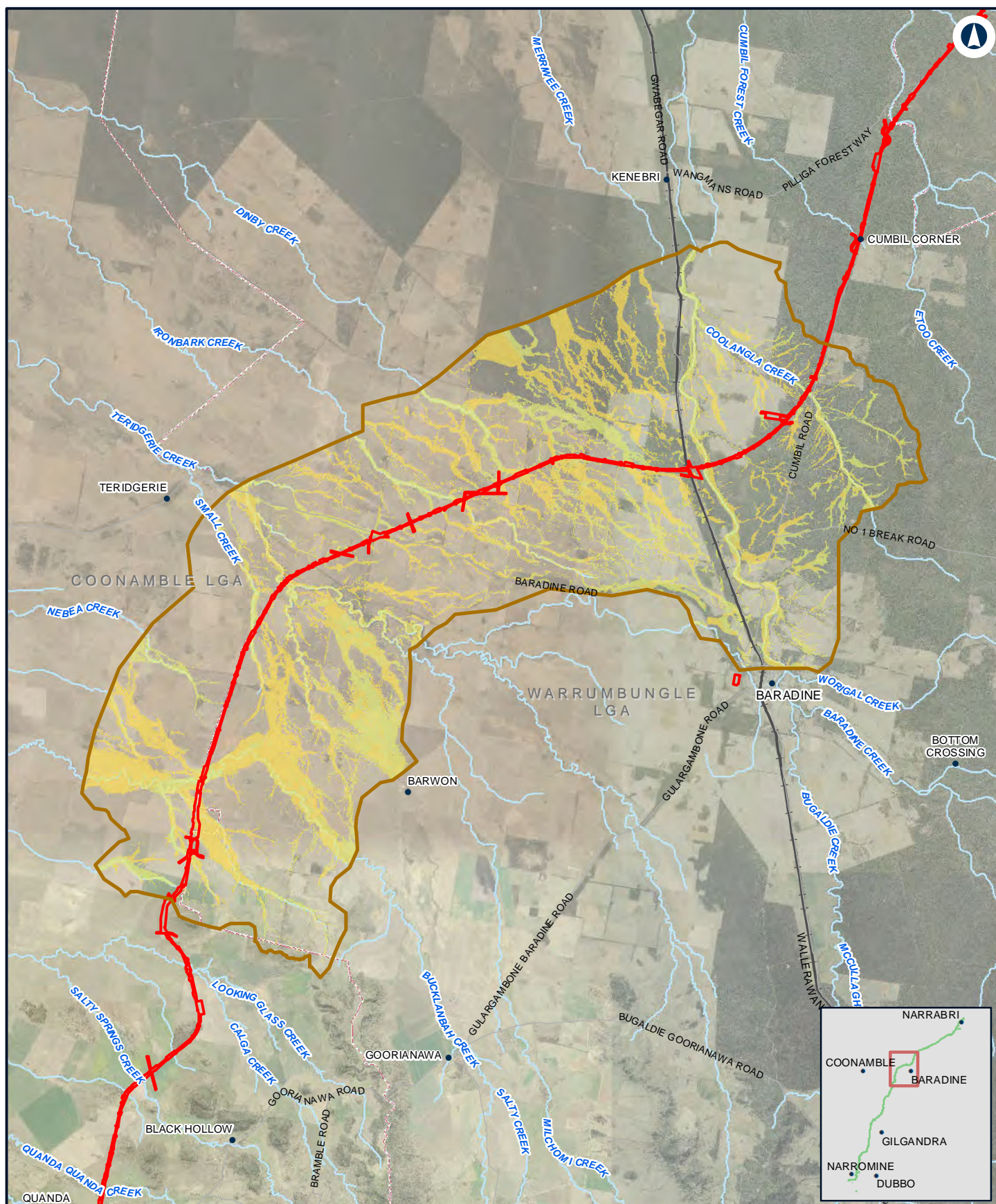
- The proposal site
- Model boundary

Change in Flood Velocity

- > 1 m/s decrease
- 0.5 m/s - 1 m/s decrease
- 0.1 m/s - 0.5 m/s decrease
- 0 m/s - 0.1 m/s decrease
- 0 m/s - 0.1 m/s increase
- 0.1 m/s - 0.5 m/s increase
- 0.5 m/s - 1 m/s increase
- > 1 m/s increase

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

Change in velocity - 1% AEP - N2N7

Appendix G - Figure 2.6h

0 2.5 5
Km

Coordinate System: GDA 1994 MGA Zone 55

ARTC makes no representation or warranty and assumes no duty of care or other responsibility to any party as to the completeness, accuracy or suitability of the information contained in this GIS map. The GIS map has been prepared from material provided to ARTC by an external source and ARTC has not taken any steps to verify the completeness, accuracy or suitability of that material. 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: 5/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:200,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

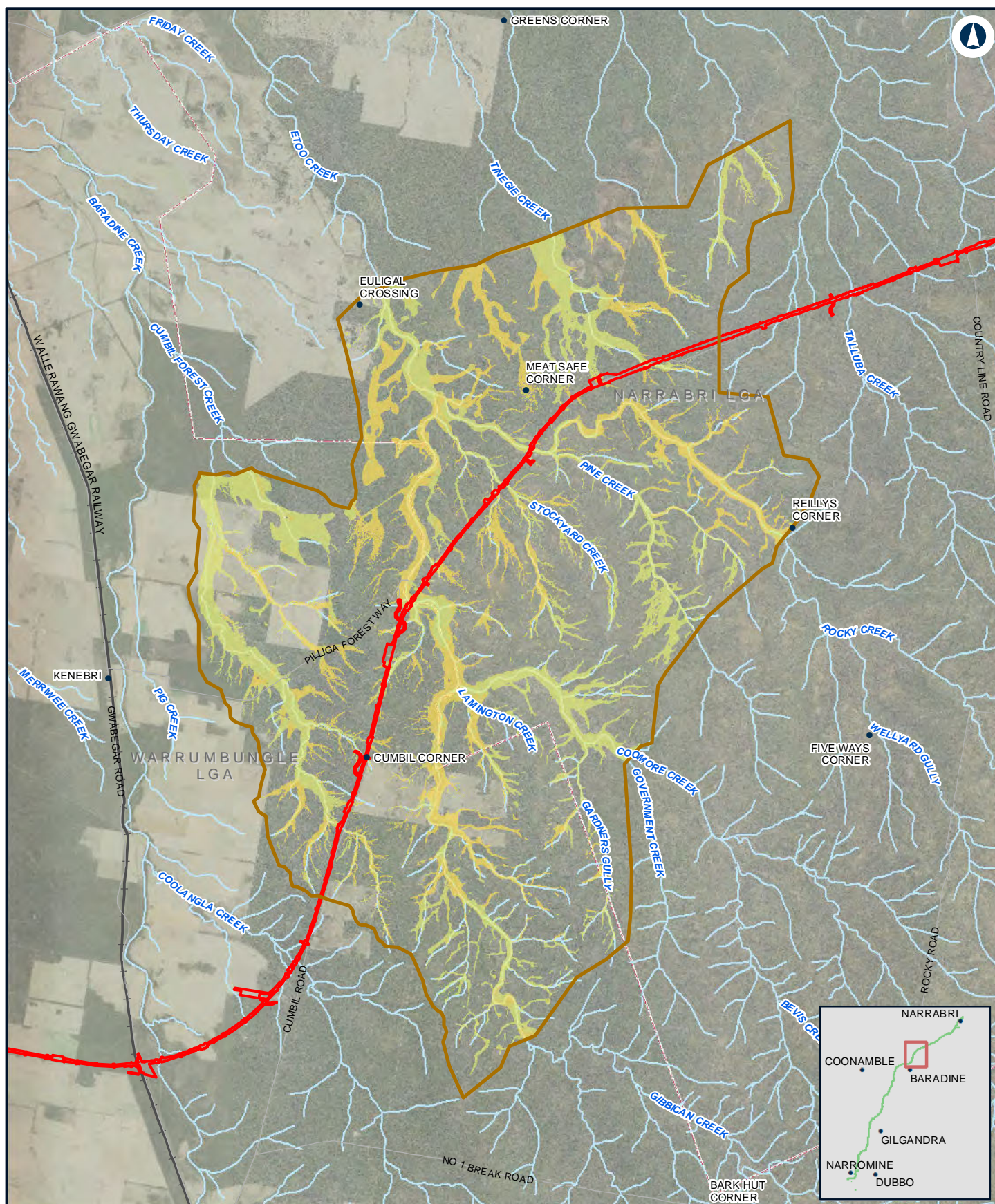
 0.1 m/s - 0.5 m/s increase

 0.5 m/s - 1 m/s increase

 > 1 m/s increase

INLAND RAIL **ARTC**

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Narromine to Narrabri

Change in velocity - 1% AEP - N2N6

Appendix G - Figure 2.6i

0 2 4 Km

Coordinate System: GDA 1994 MGA Zone 55

ARTC makes no representation or warranty and assumes no duty of care or other responsibility to any party as to the completeness, accuracy or suitability of the information contained in this GIS map. The GIS map has been prepared from material provided to ARTC by an external source and ARTC has not taken any steps to verify the completeness, accuracy or suitability of that material. 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: 5/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:150,000

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

LEGEND

The proposal site

Model boundary

Change in Flood Velocity

> 1 m/s decrease

0.5 m/s - 1 m/s decrease

0.1 m/s - 0.5 m/s decrease

0 m/s - 0.1 m/s decrease

0 m/s - 0.1 m/s increase

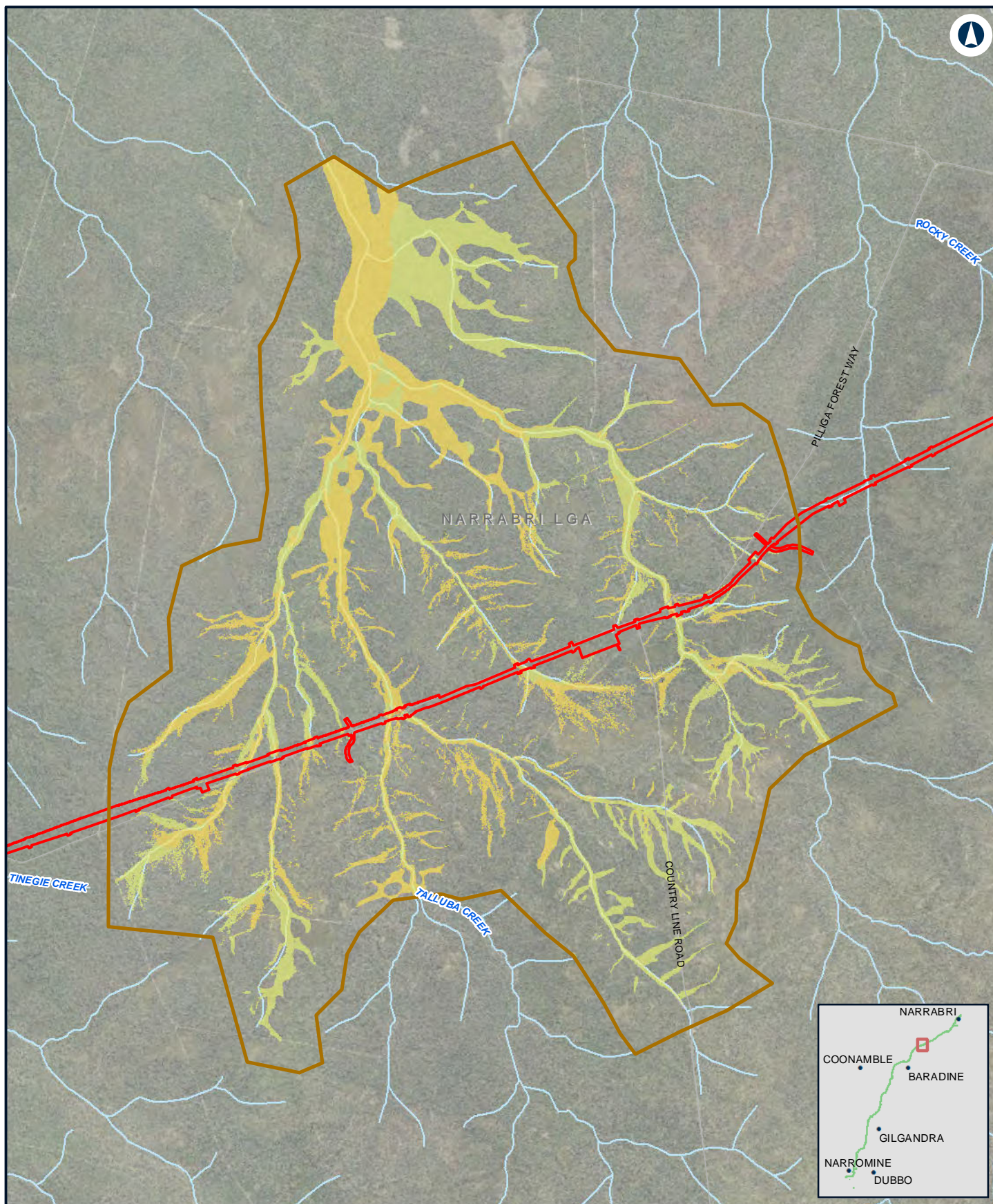
0.1 m/s - 0.5 m/s increase

0.5 m/s - 1 m/s increase

> 1 m/s increase

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Change in velocity - 1% AEP - N2N5

Appendix G - Figure 2.6j

0 1 2 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 5/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:70,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

> 1 m/s decrease

0.5 m/s - 1 m/s decrease

0.1 m/s - 0.5 m/s decrease

0 m/s - 0.1 m/s decrease

0 m/s - 0.1 m/s increase

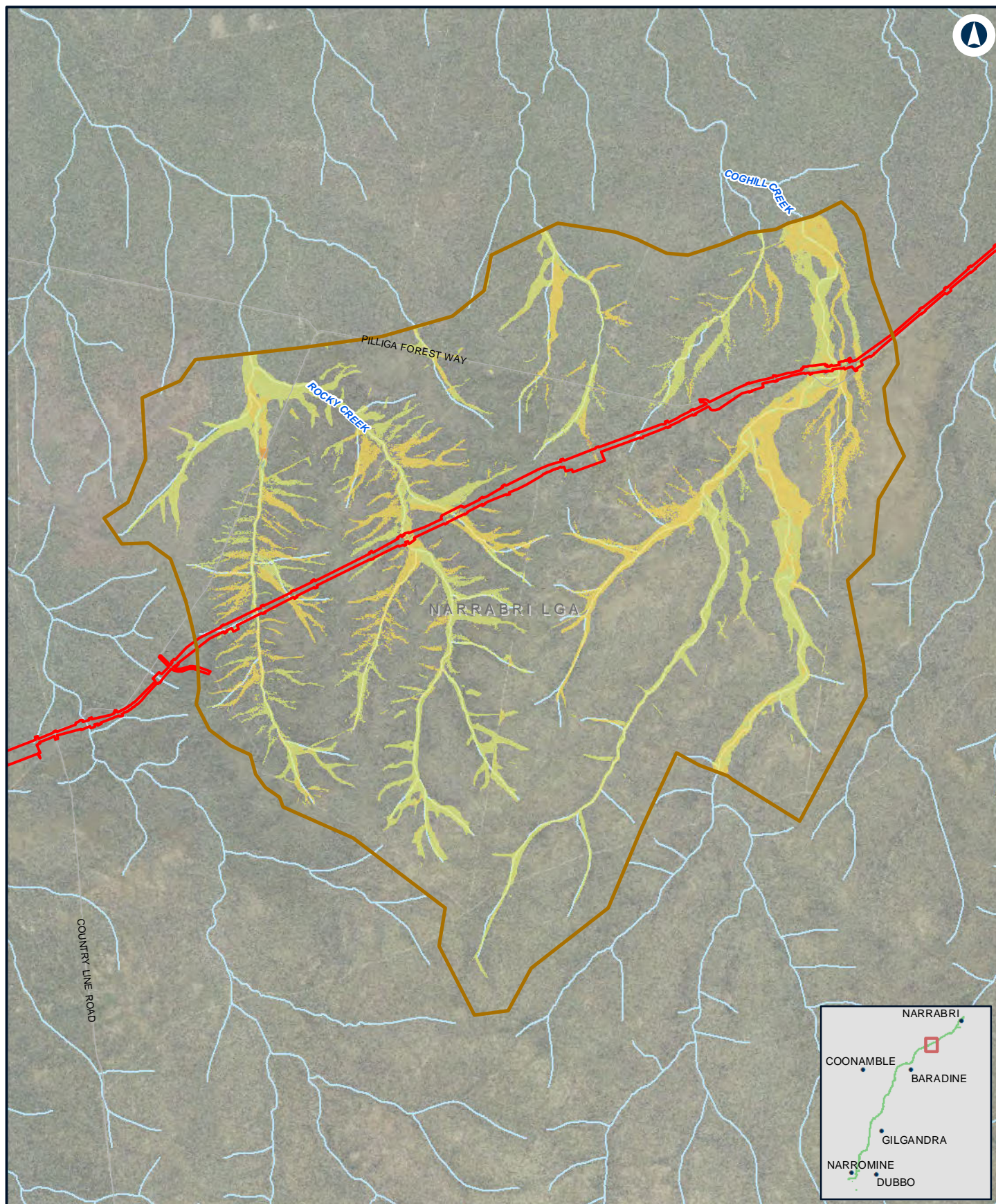
0.1 m/s - 0.5 m/s increase

0.5 m/s - 1 m/s increase

> 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 1% AEP - N2N4

Appendix G - Figure 2.6k

0 1 2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 5/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:80,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

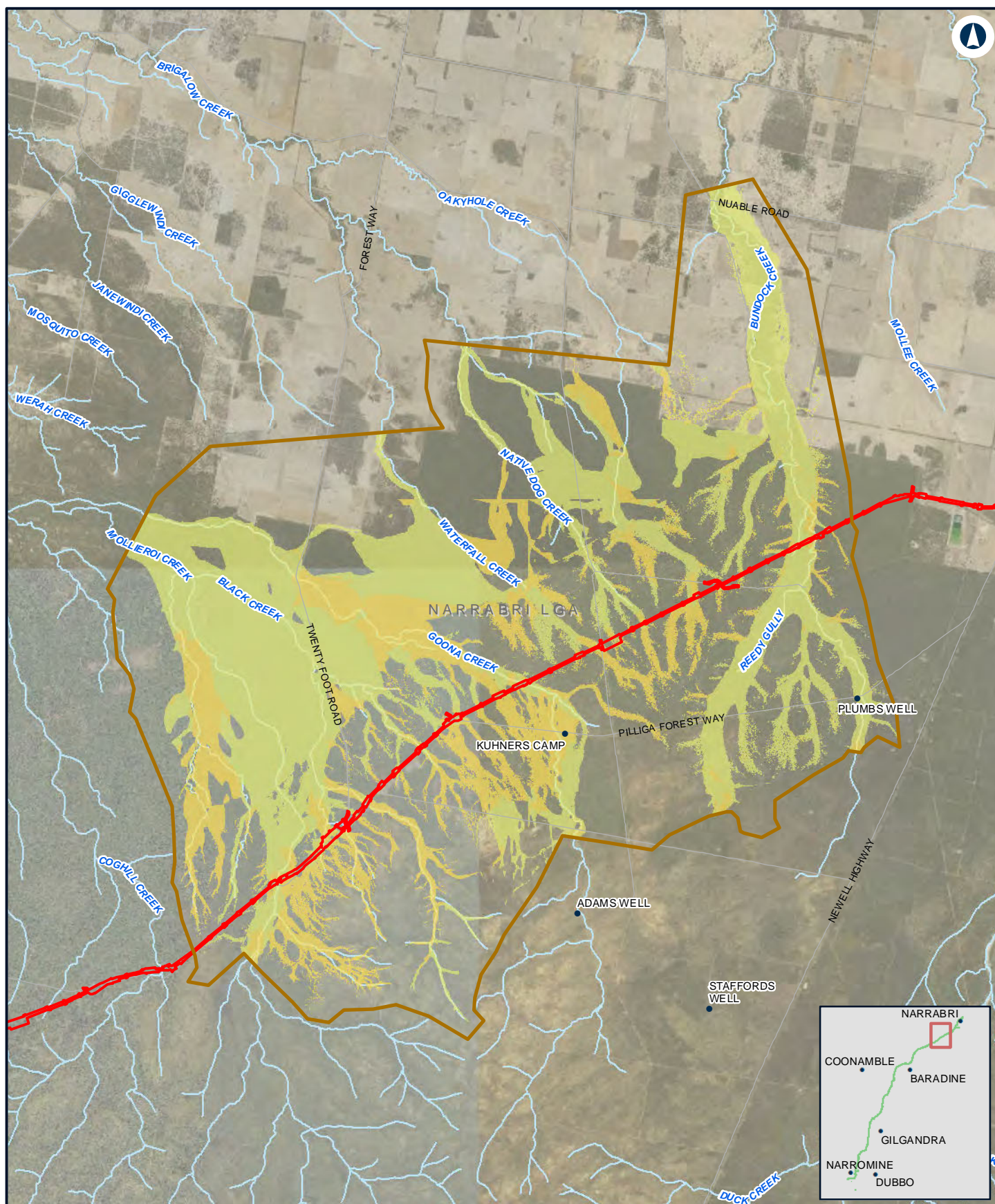
 0.1 m/s - 0.5 m/s increase

 0.5 m/s - 1 m/s increase

 > 1 m/s increase

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Change in velocity - 1% AEP - N2N23

Appendix G - Figure 2.6I

0 1.5 3
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 5/08/2022

Author: JacobsGHD

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

Paper: A4

Scale: 1:140,000

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

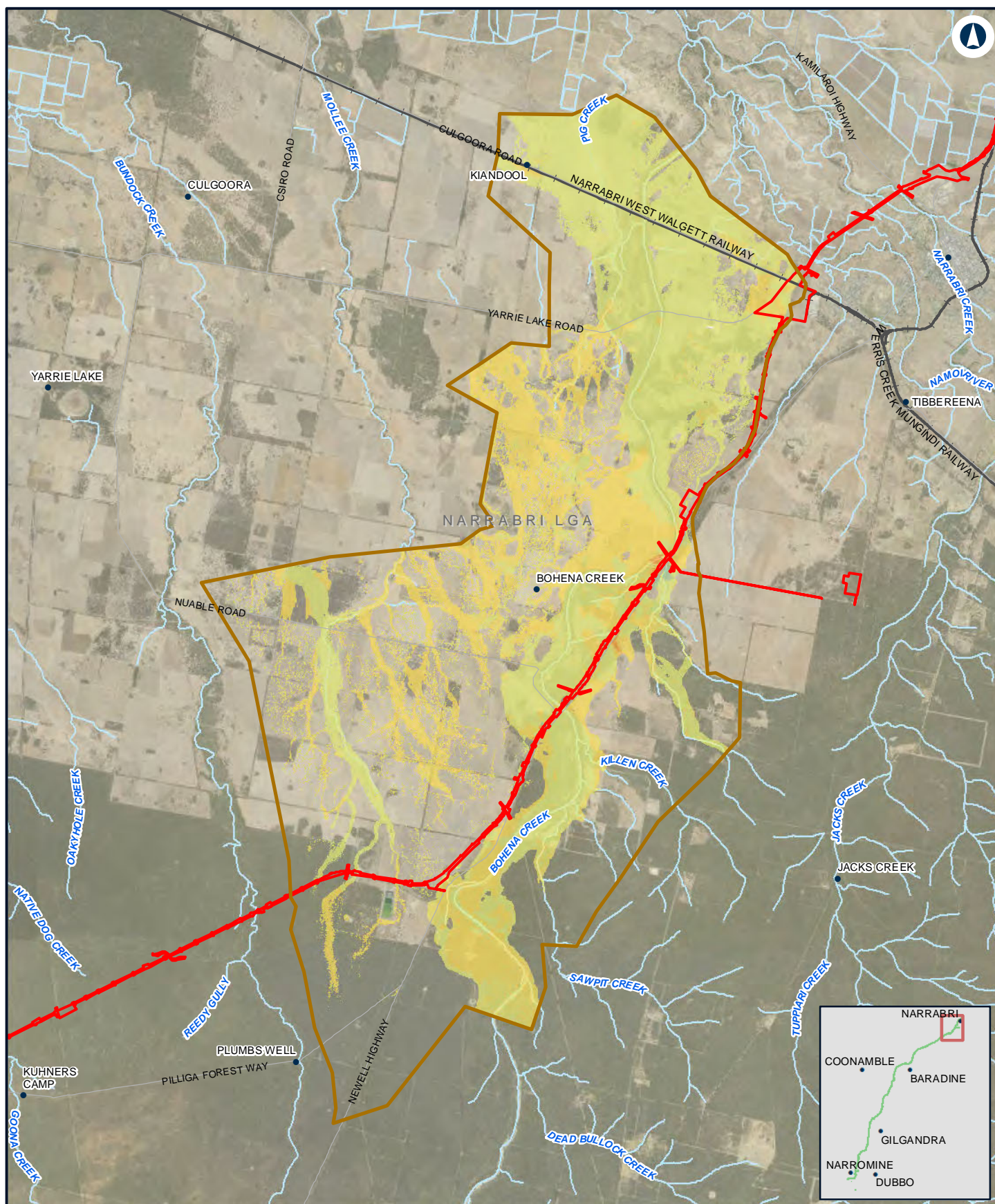
 0.1 m/s - 0.5 m/s increase

 0.5 m/s - 1 m/s increase

 > 1 m/s increase

INLAND RAIL **ARTC**

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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: 5/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:150,000

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

LEGEND

The proposal site

Model boundary

Change in Flood Velocity

> 1 m/s decrease

0.5 m/s - 1 m/s decrease

0.1 m/s - 0.5 m/s decrease

0 m/s - 0.1 m/s decrease

0 m/s - 0.1 m/s increase

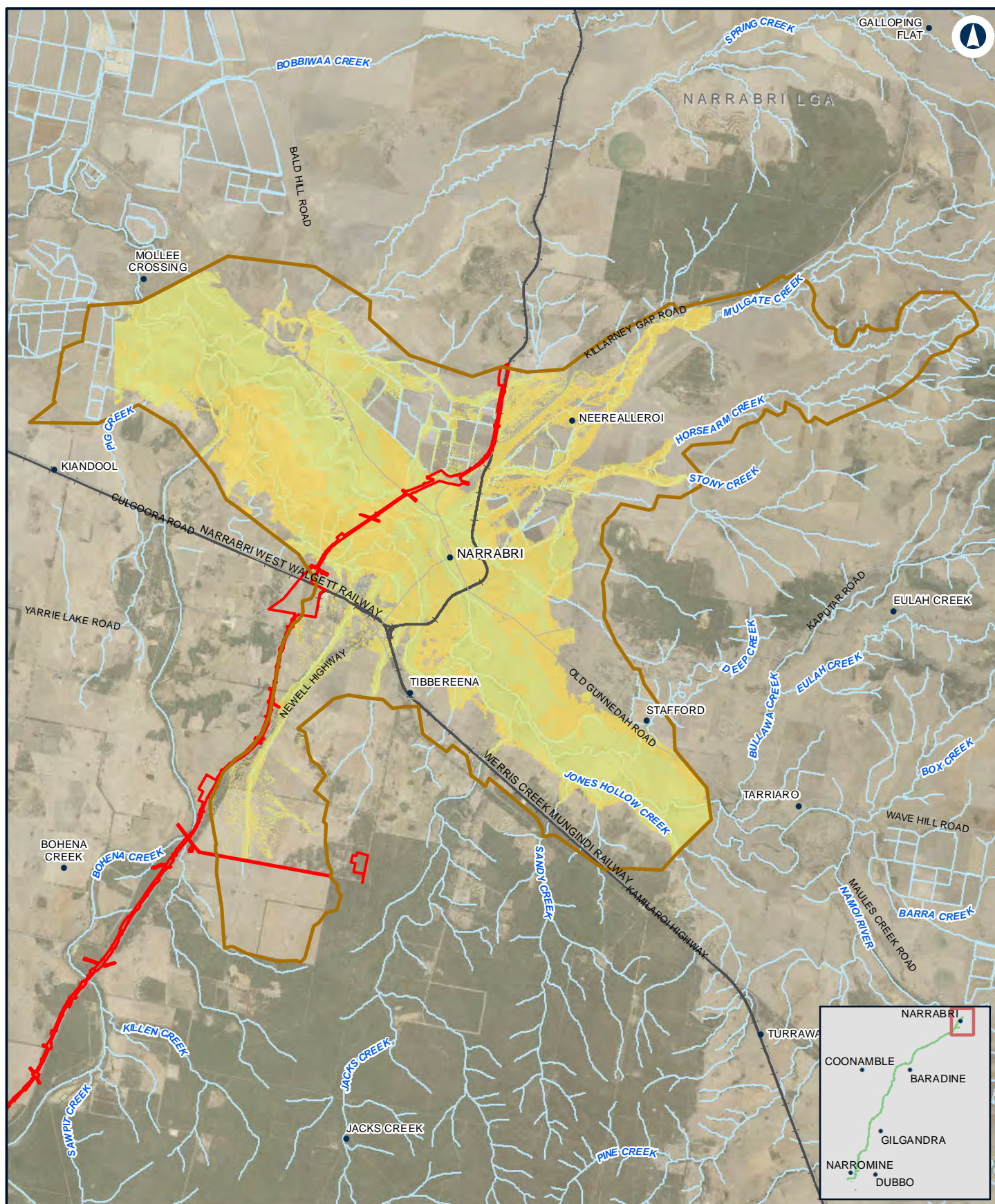
0.1 m/s - 0.5 m/s increase

0.5 m/s - 1 m/s increase

> 1 m/s increase

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Change in velocity - 1% AEP - Narrabri

Appendix G - Figure 2.6n

0 2 4
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 5/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:160,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

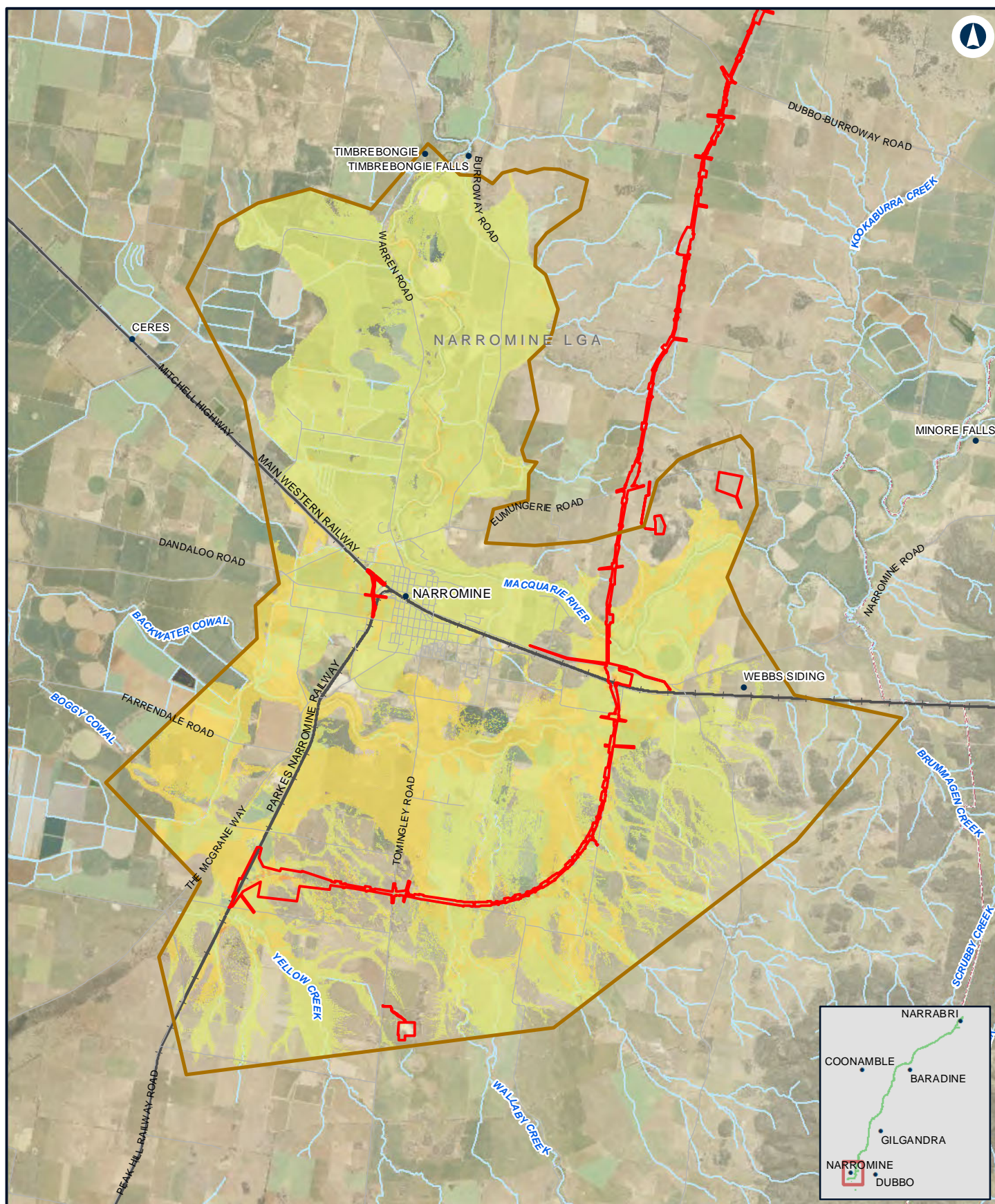
 0.1 m/s - 0.5 m/s increase

 0.5 m/s - 1 m/s increase

 > 1 m/s increase

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0 1.5 3 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:140,000

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

LEGEND

- The proposal site
- Model boundary

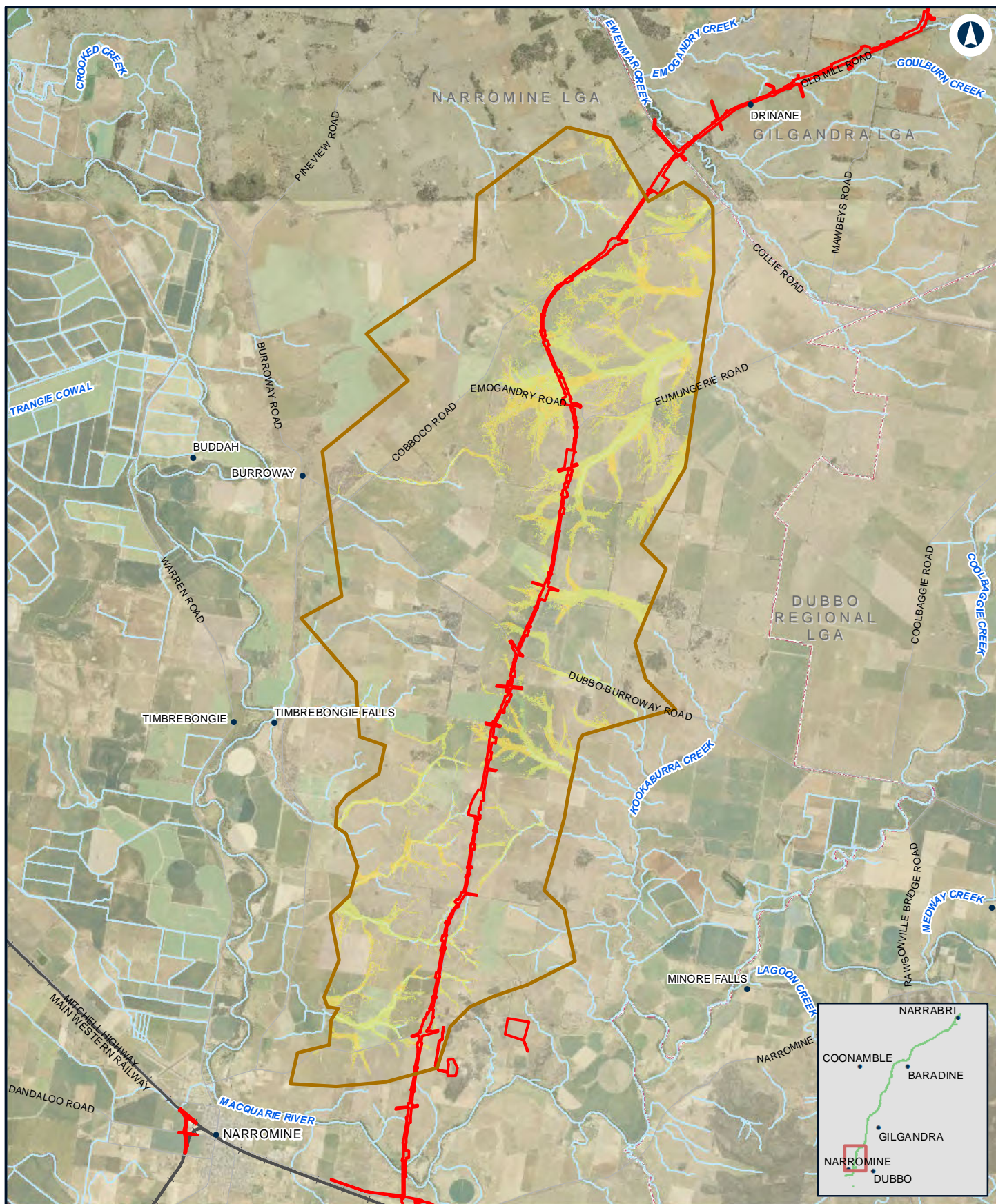
Change in Flood Velocity

- > 1 m/s decrease
- 0.5 m/s - 1 m/s decrease
- 0.1 m/s - 0.5 m/s decrease
- 0 m/s - 0.1 m/s decrease

- 0 m/s - 0.1 m/s increase
- 0.1 m/s - 0.5 m/s increase
- 0.5 m/s - 1 m/s increase
- > 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 0.5% AEP - N2N14

Appendix G Figure 2.7b

0 2 4 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022

Author: JacobsGHD

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

Paper: A4

Scale: 1:150,000

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

 0.1 m/s - 0.5 m/s increase

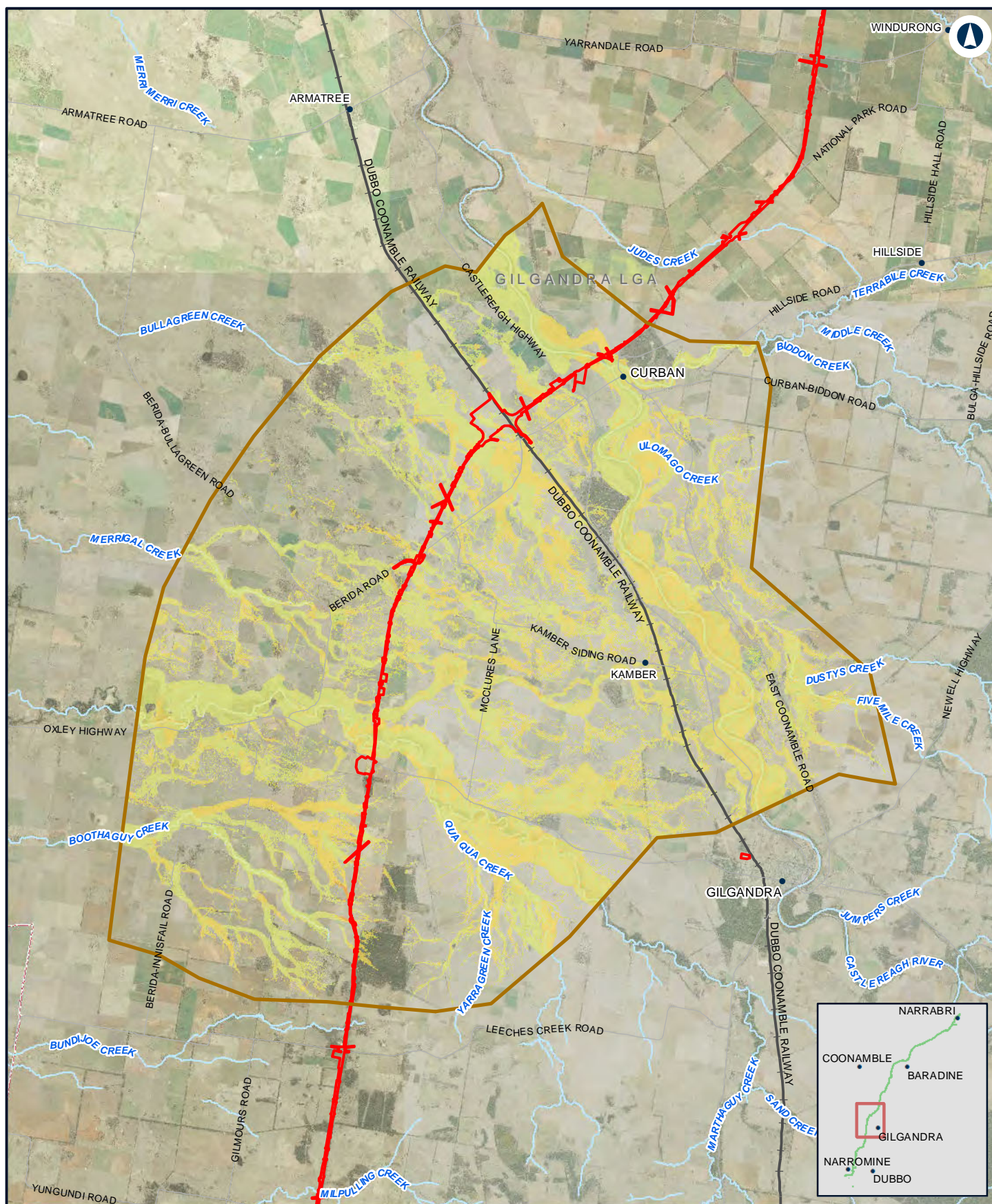
 0.5 m/s - 1 m/s increase

 > 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 0.5% AEP - N2N11N12

Appendix G Figure 2.7d

0 2.5 5
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:200,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

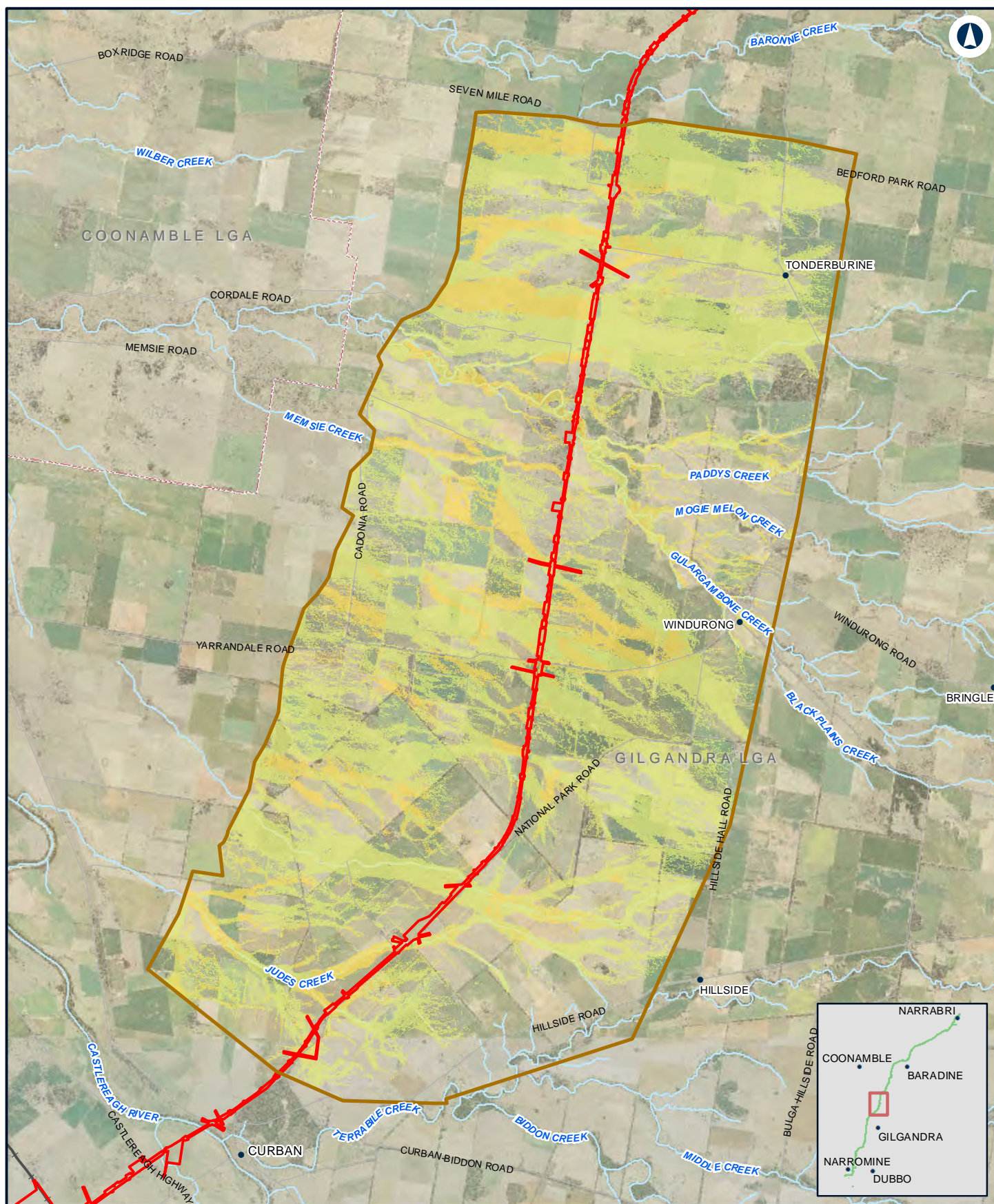
 0.1 m/s - 0.5 m/s increase

 0.5 m/s - 1 m/s increase

 > 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 0.5% AEP - N2N10

Appendix G Figure 2.7e

0 1.5 3
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:130,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

 0.1 m/s - 0.5 m/s increase

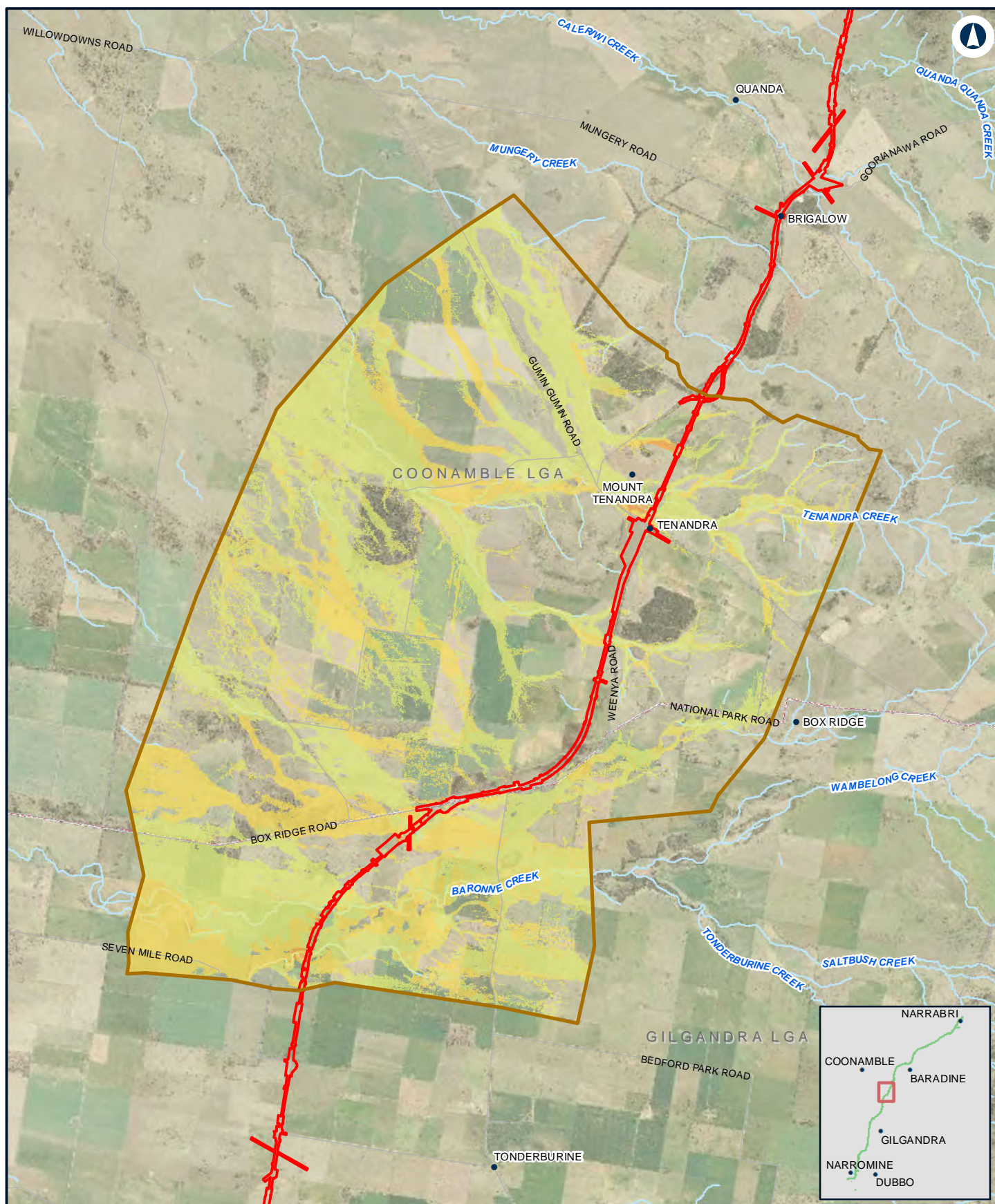
 0.5 m/s - 1 m/s increase

 > 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 0.5% AEP - N2N9

Appendix G Figure 2.7f

0 1.5 3 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:110,000

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

LEGEND

- The proposal site
- Model boundary

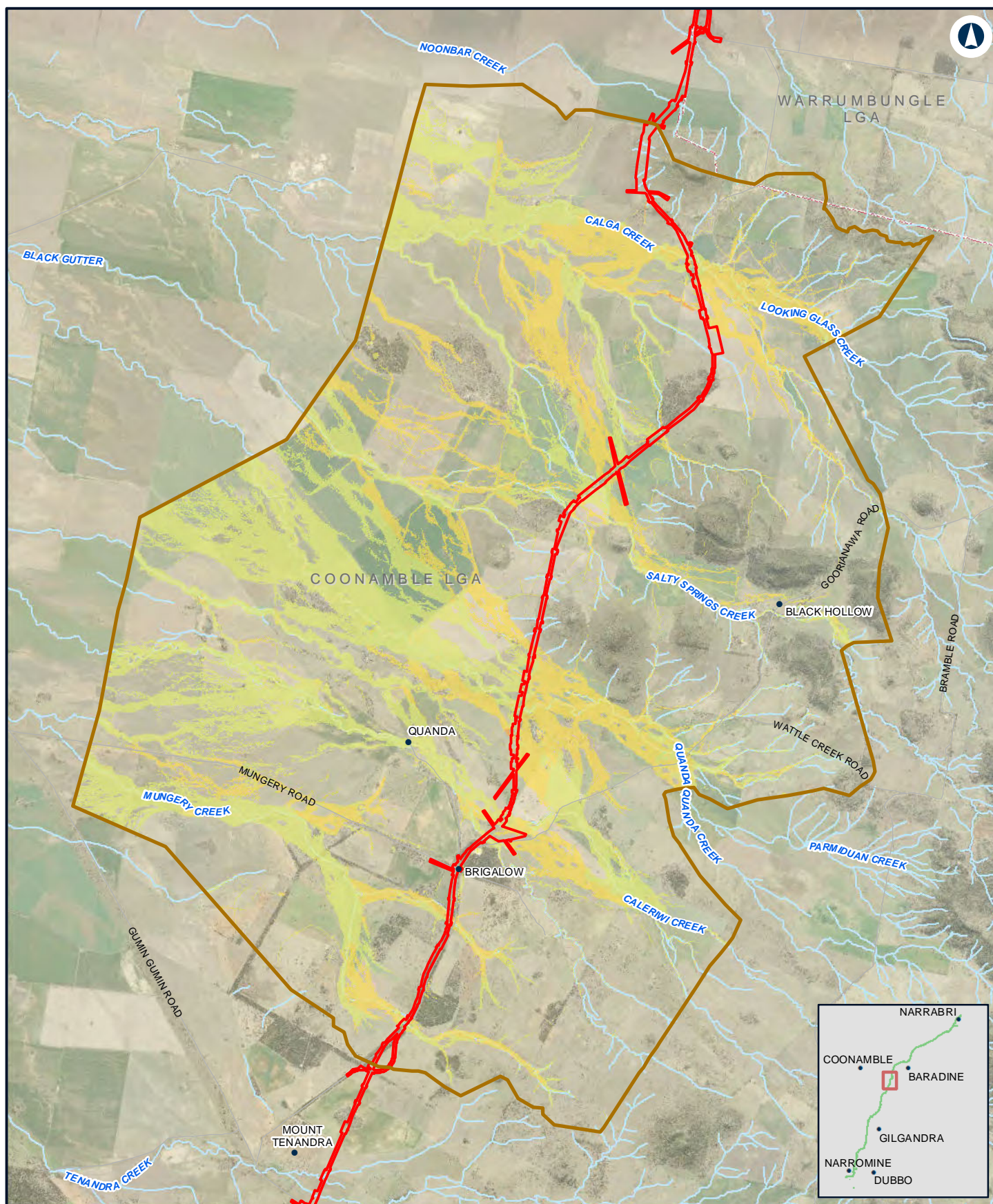
Change in Flood Velocity

- > 1 m/s decrease
- 0.5 m/s - 1 m/s decrease
- 0.1 m/s - 0.5 m/s decrease
- 0 m/s - 0.1 m/s decrease

- 0 m/s - 0.1 m/s increase
- 0.1 m/s - 0.5 m/s increase
- 0.5 m/s - 1 m/s increase
- > 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 0.5% AEP - N2N8

Appendix G Figure 2.7g

0 1 2 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:100,000

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

LEGEND

- The proposal site
- Model boundary

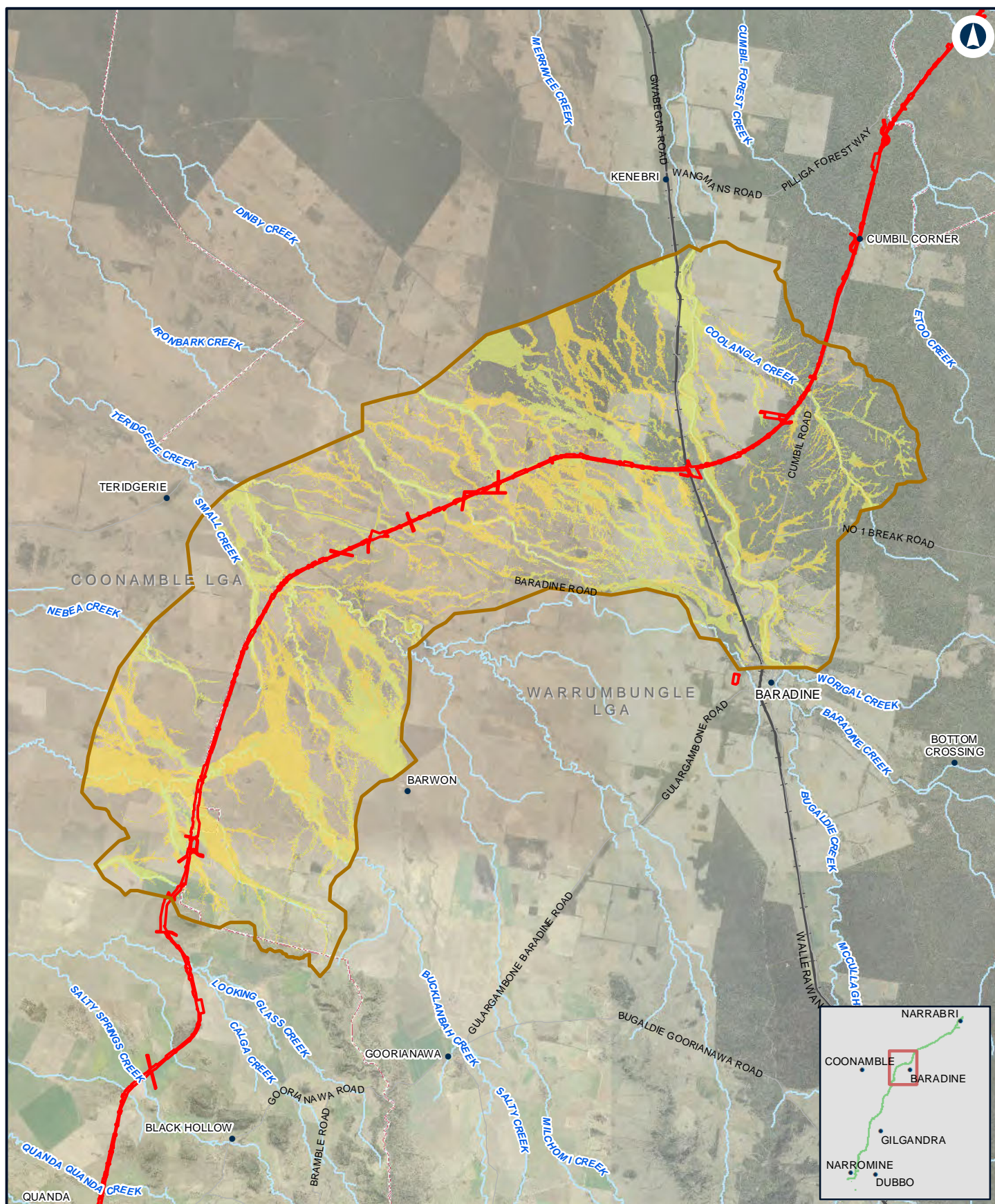
Change in Flood Velocity

- > 1 m/s decrease
- 0.5 m/s - 1 m/s decrease
- 0.1 m/s - 0.5 m/s decrease
- 0 m/s - 0.1 m/s decrease

- 0 m/s - 0.1 m/s increase
- 0.1 m/s - 0.5 m/s increase
- 0.5 m/s - 1 m/s increase
- > 1 m/s increase

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Change in velocity - 0.5% AEP - N2N7

Appendix G Figure 2.7h

0 2.5 5
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:200,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

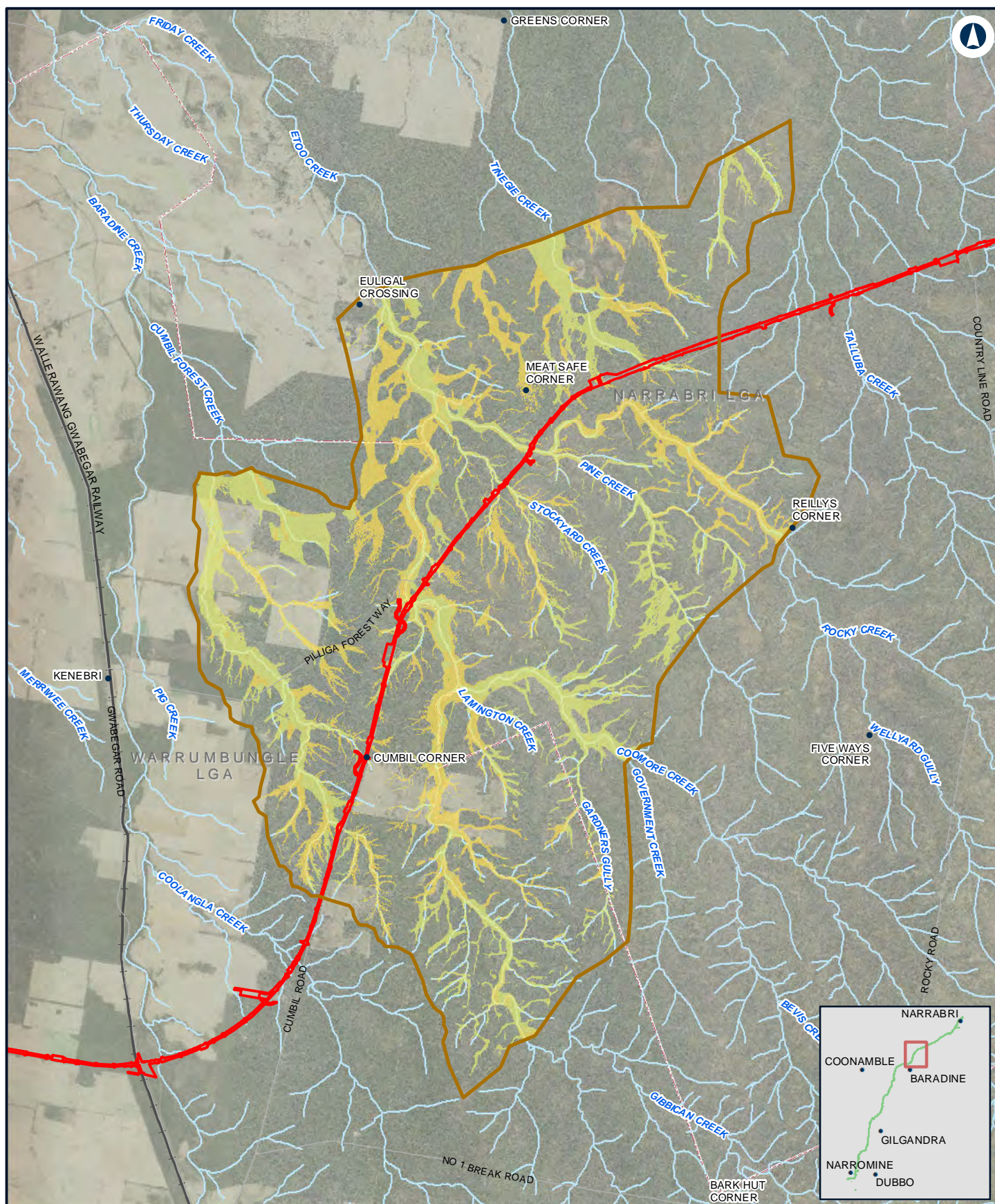
 0.1 m/s - 0.5 m/s increase

 0.5 m/s - 1 m/s increase

 > 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 0.5% AEP - N2N6

Appendix G Figure 2.7i

0 2 4 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:150,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

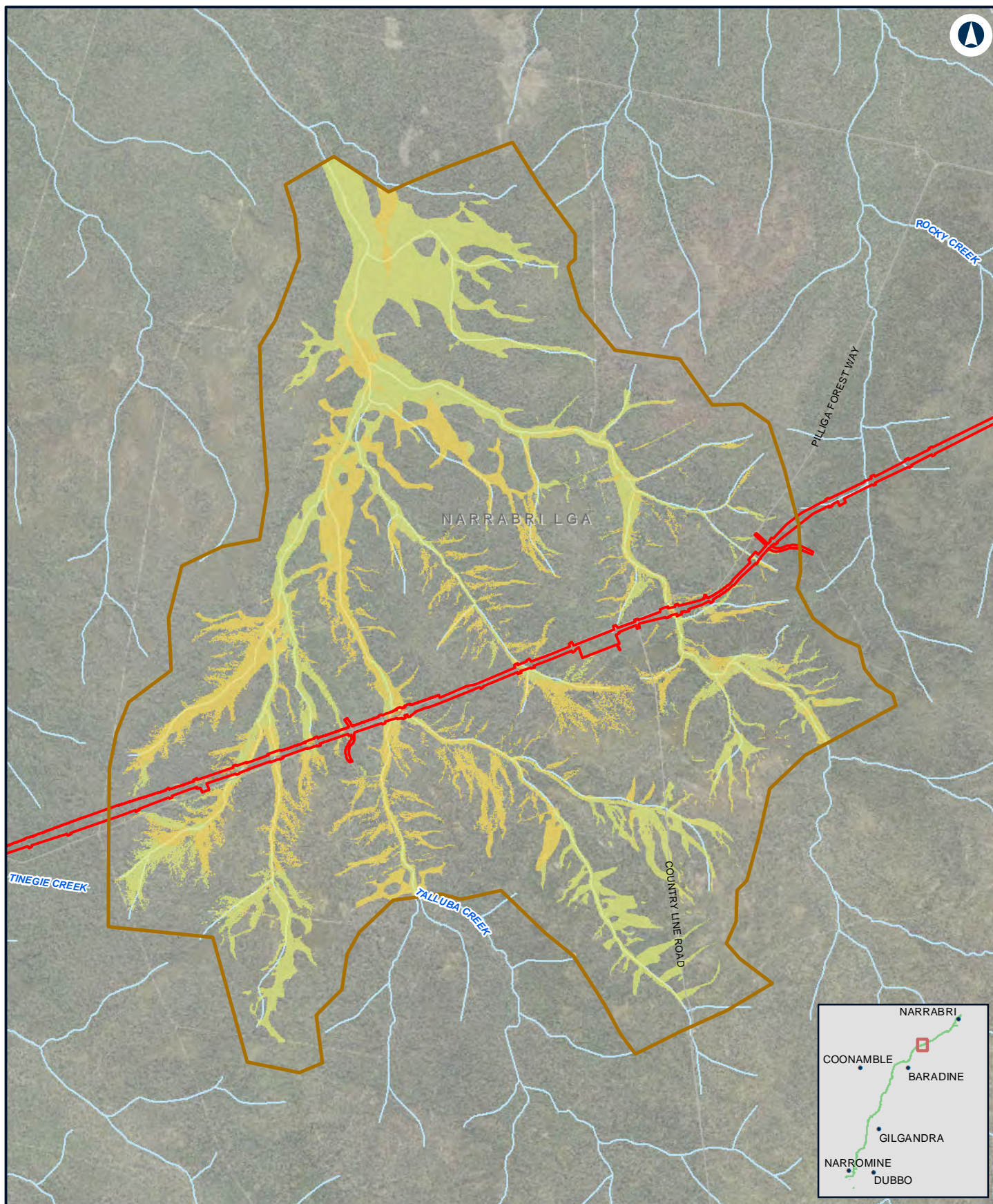
 0.1 m/s - 0.5 m/s increase

 0.5 m/s - 1 m/s increase

 > 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 0.5% AEP - N2N5

Appendix G Figure 2.7j

0 1 2 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:70,000

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

LEGEND

- The proposal site
- Model boundary

Change in Flood Velocity

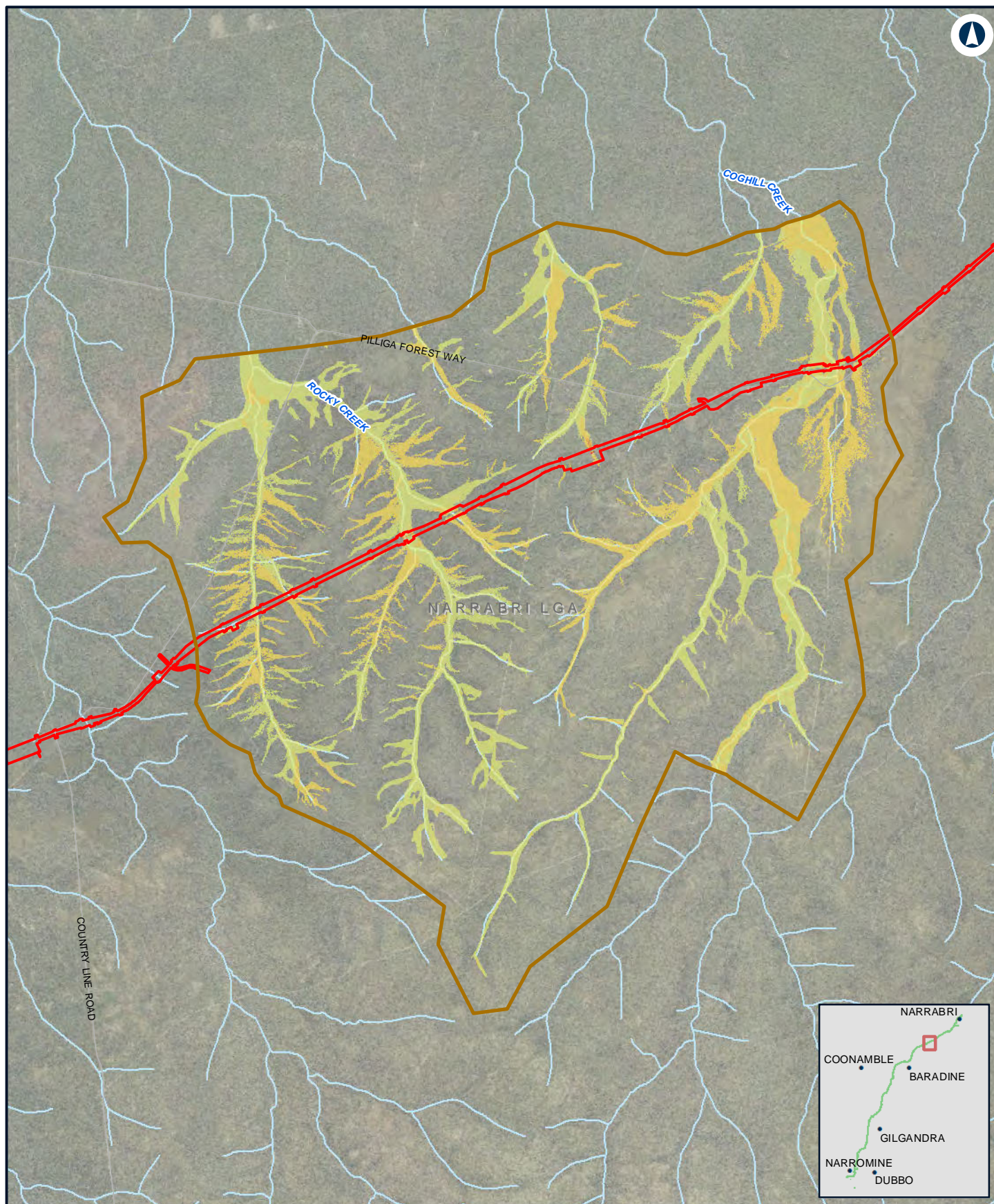
- > 1 m/s decrease
- 0.5 m/s - 1 m/s decrease
- 0.1 m/s - 0.5 m/s decrease
- 0 m/s - 0.1 m/s decrease

- 0 m/s - 0.1 m/s increase
- 0.1 m/s - 0.5 m/s increase
- 0.5 m/s - 1 m/s increase
- > 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 0.5% AEP - N2N4

Appendix G Figure 2.7k

0 1 2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:80,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

 0.1 m/s - 0.5 m/s increase

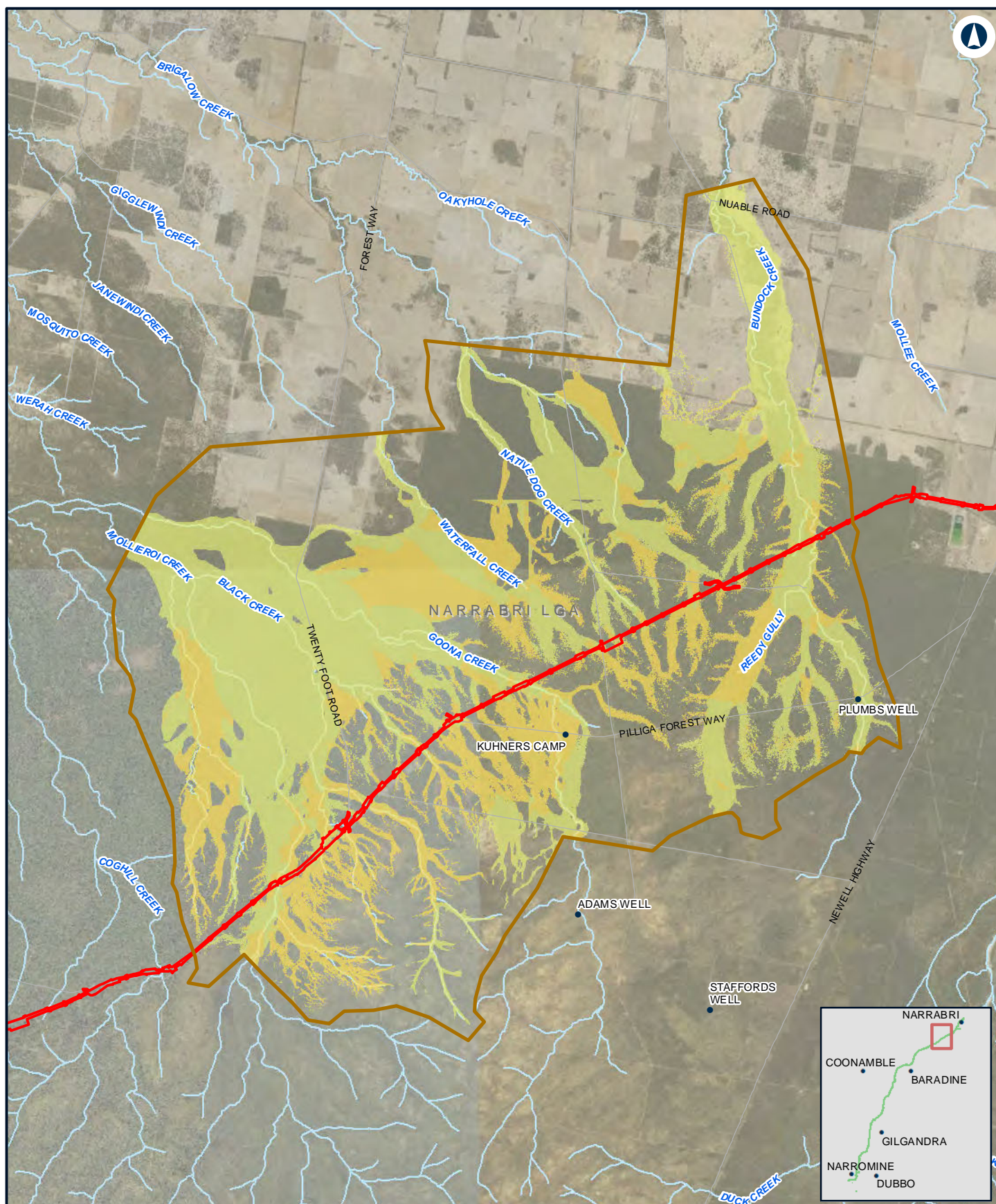
 0.5 m/s - 1 m/s increase

 > 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 0.5% AEP - N2N23

Appendix G Figure 2.7I

0 1.5 3
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:140,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

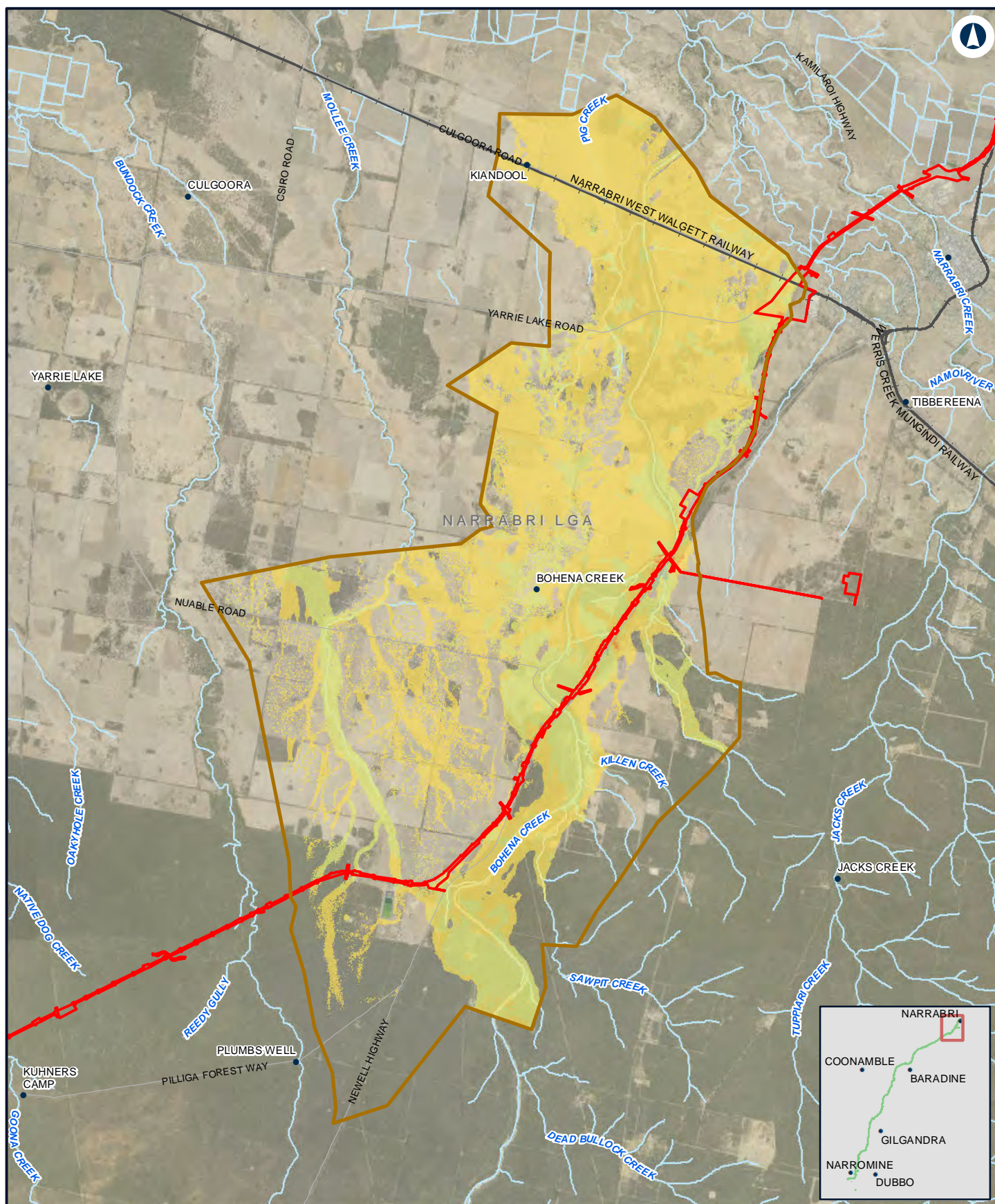
 0.1 m/s - 0.5 m/s increase

 0.5 m/s - 1 m/s increase

 > 1 m/s increase

INLAND RAIL **ARTC**

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



0 2 4 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:150,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

 0.1 m/s - 0.5 m/s increase

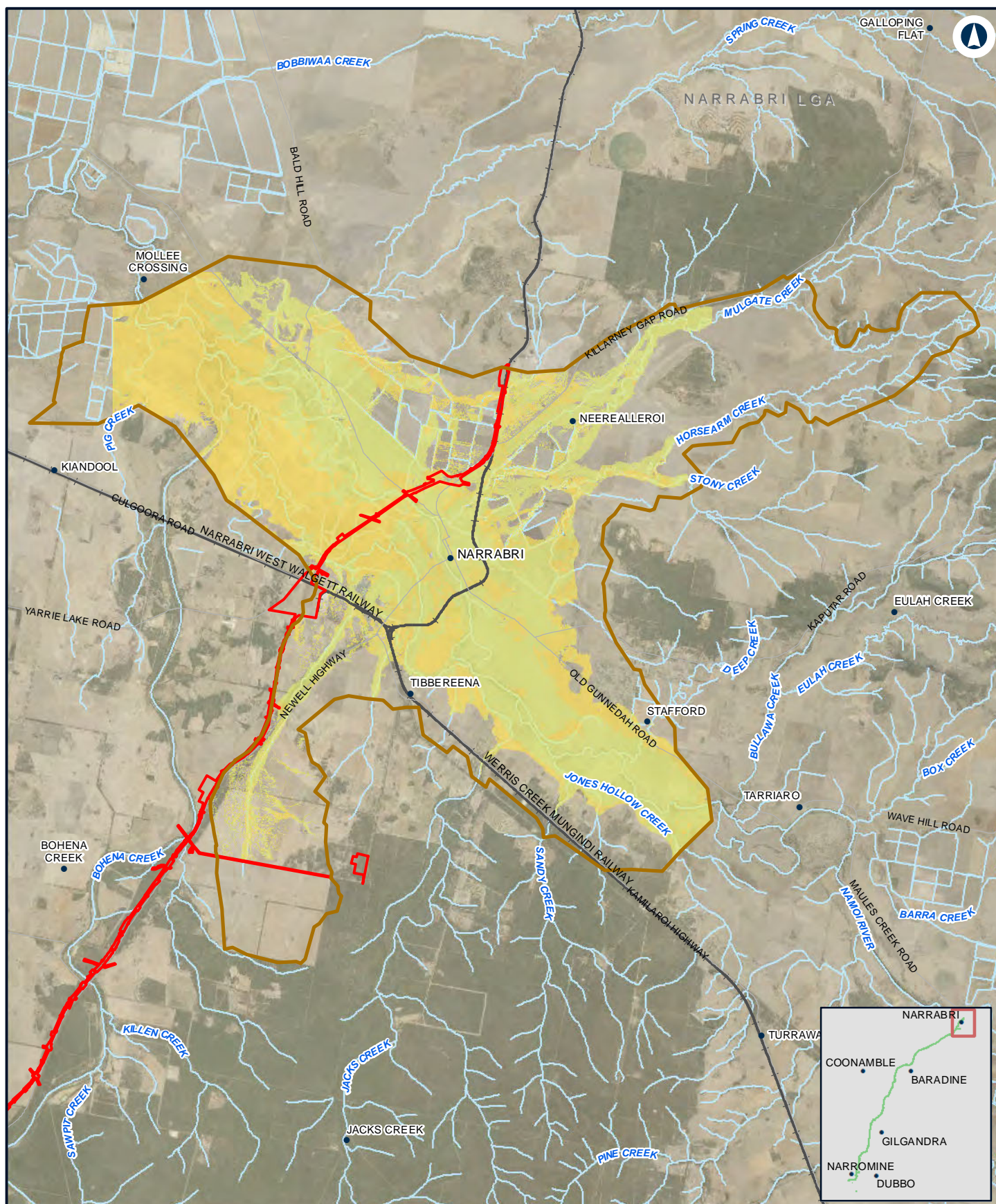
 0.5 m/s - 1 m/s increase

 > 1 m/s increase

**INLAND
RAIL**

ARTC

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



NARRABRI TO NARRABRI

Change in velocity - 0.5% AEP - Narrabri

Appendix G Figure 2.7n

0 2 4 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:160,000

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

LEGEND

The proposal site

Model boundary

Change in Flood Velocity

> 1 m/s decrease

0.5 m/s - 1 m/s decrease

0.1 m/s - 0.5 m/s decrease

0 m/s - 0.1 m/s decrease

0 m/s - 0.1 m/s increase

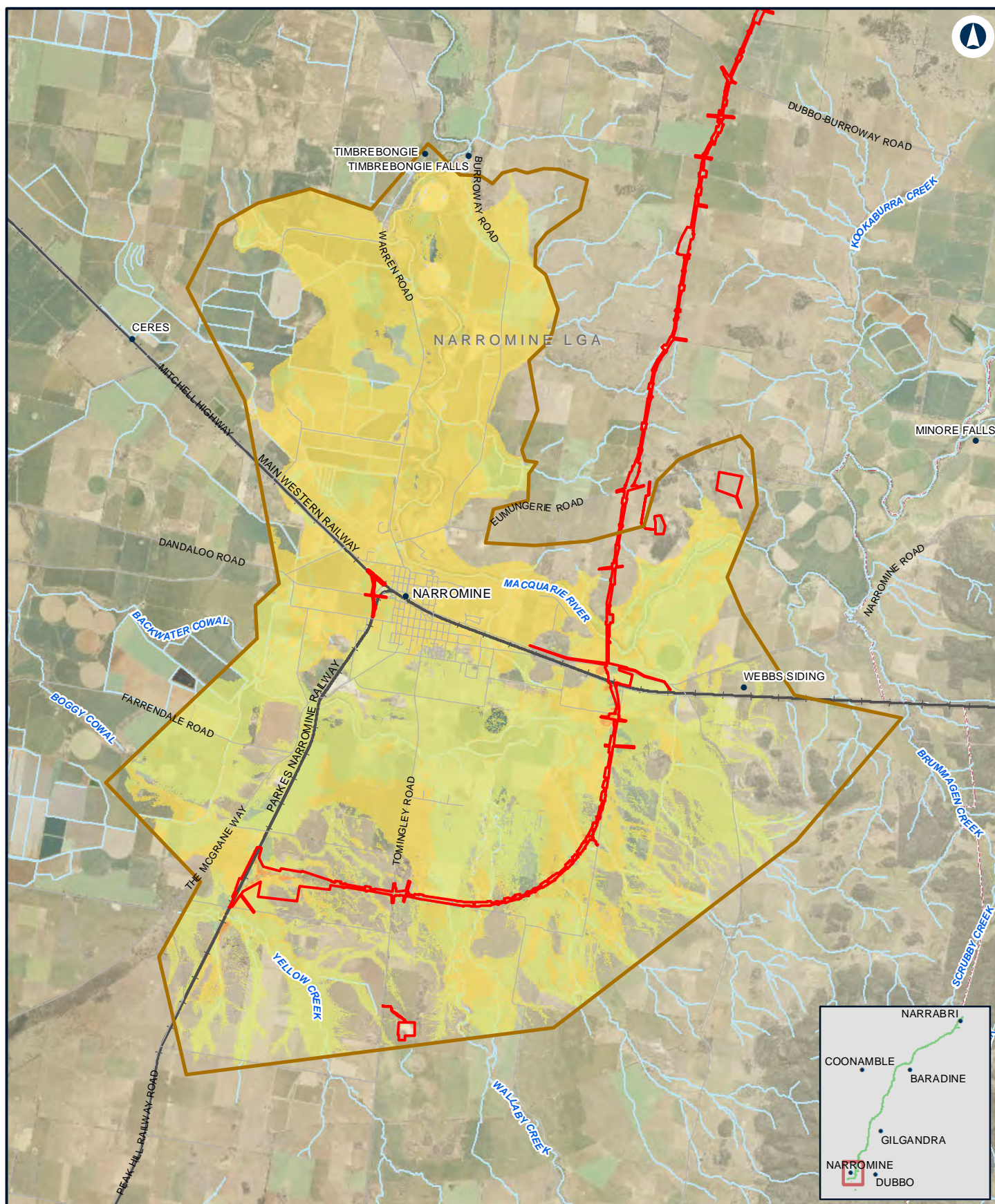
0.1 m/s - 0.5 m/s increase

0.5 m/s - 1 m/s increase

> 1 m/s increase

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

Change in velocity - 0.2% AEP - NFM

Appendix G Figure 2.8a

0 1.5 3 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 5/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:140,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

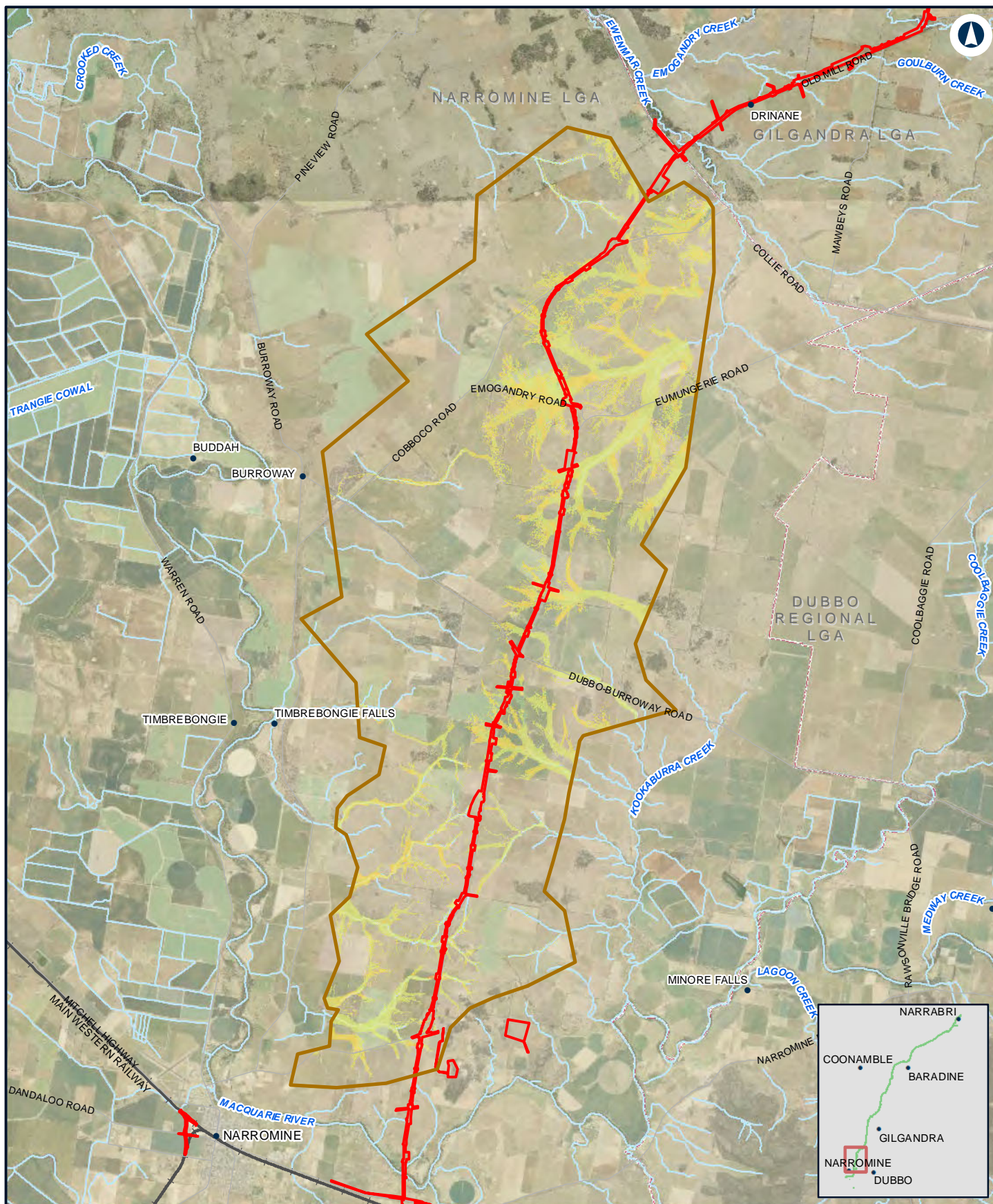
 0.1 m/s - 0.5 m/s increase

 0.5 m/s - 1 m/s increase

 > 1 m/s increase

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Change in velocity - 0.2% AEP - N2N14

Appendix G Figure 2.8b

0 2 4 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 5/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:150,000

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

LEGEND

The proposal site

Model boundary

Change in Flood Velocity

> 1 m/s decrease

0.5 m/s - 1 m/s decrease

0.1 m/s - 0.5 m/s decrease

0 m/s - 0.1 m/s decrease

0 m/s - 0.1 m/s increase

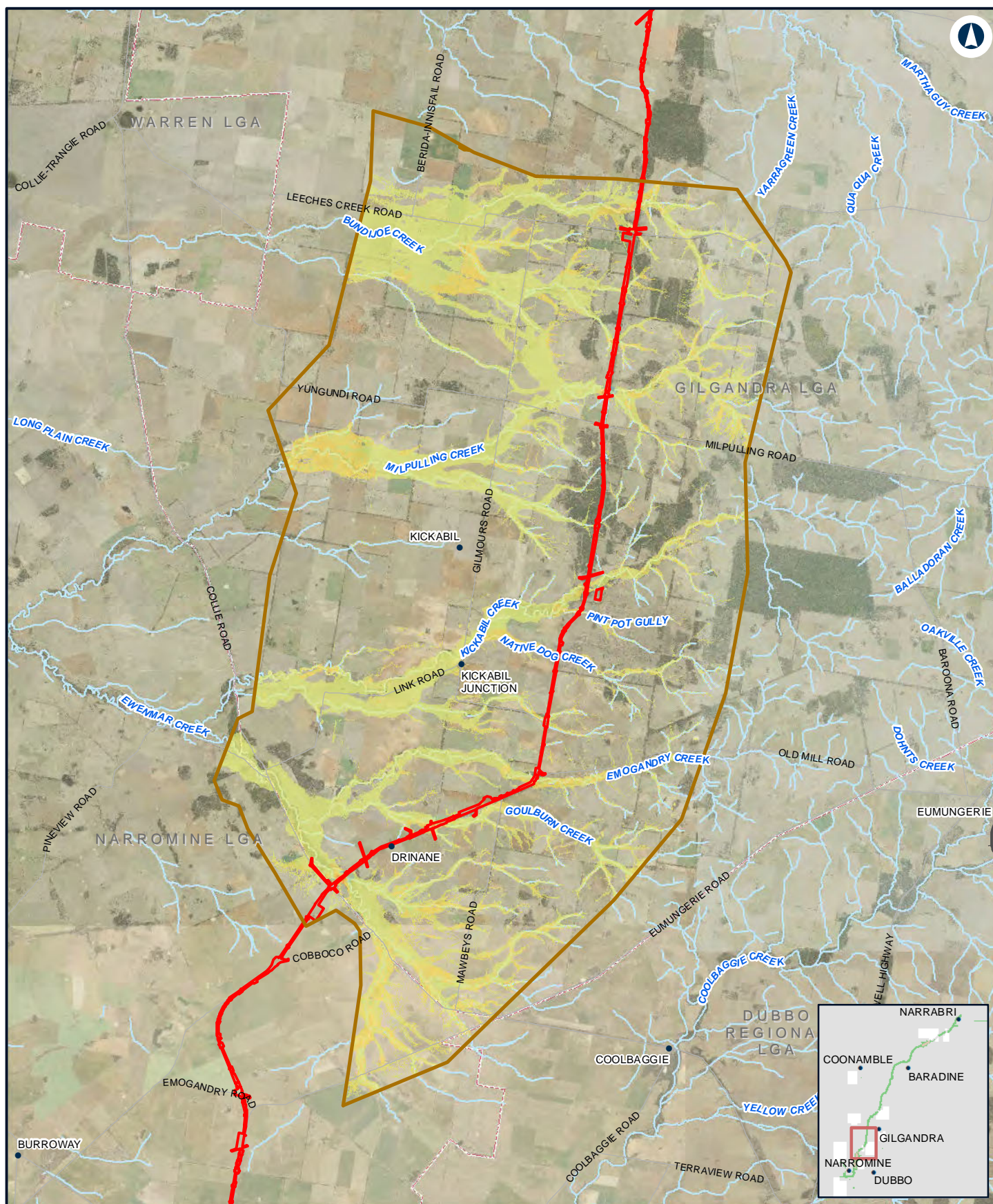
0.1 m/s - 0.5 m/s increase

0.5 m/s - 1 m/s increase

> 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 0.2% AEP - N2N13

Appendix G Figure 2.8c

0 2.5 5 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 5/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:180,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

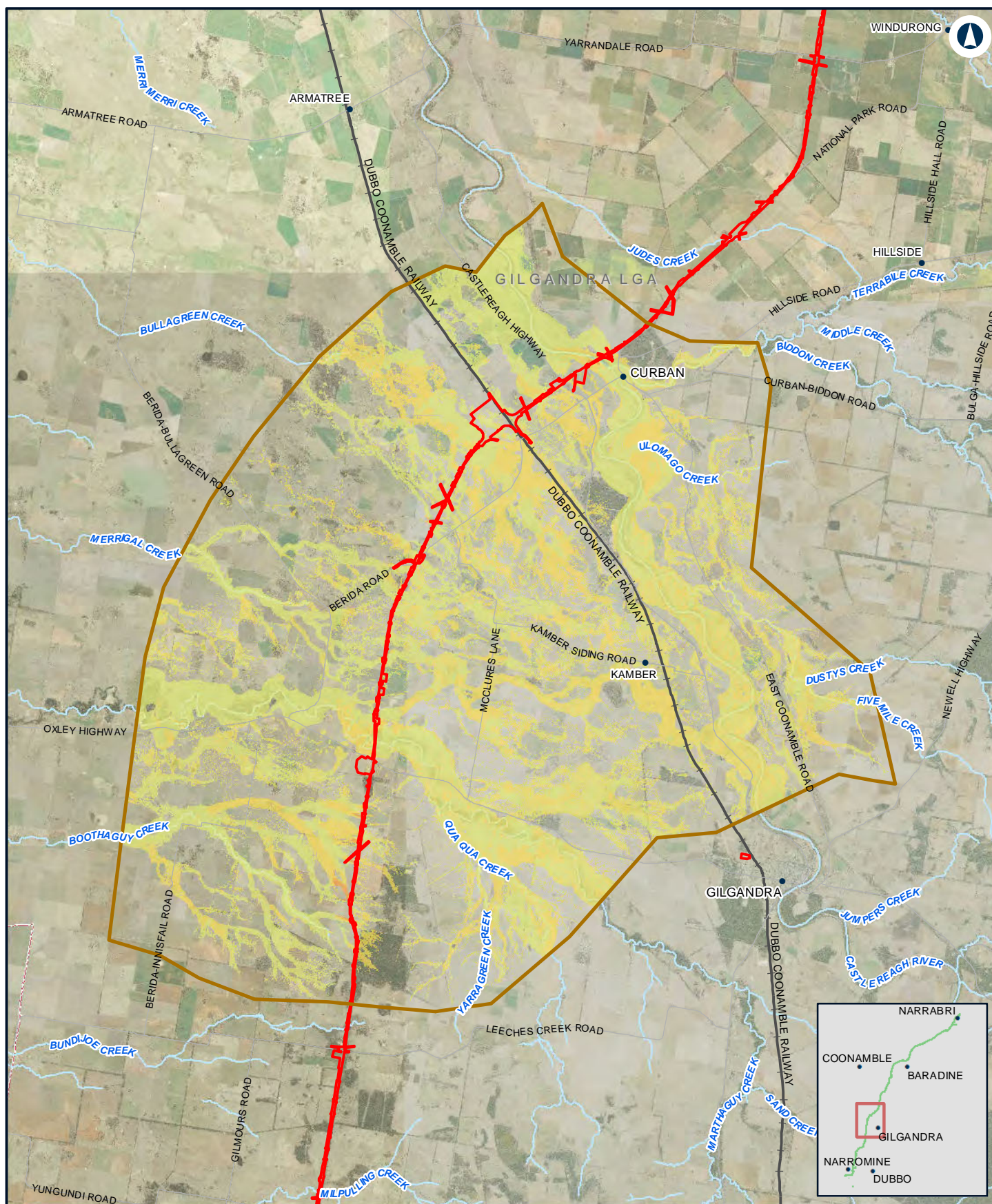
 0.1 m/s - 0.5 m/s increase

 0.5 m/s - 1 m/s increase

 > 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 0.2% AEP - N2N11N12

Appendix G Figure 2.8d

0 2.5 5
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 5/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:200,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

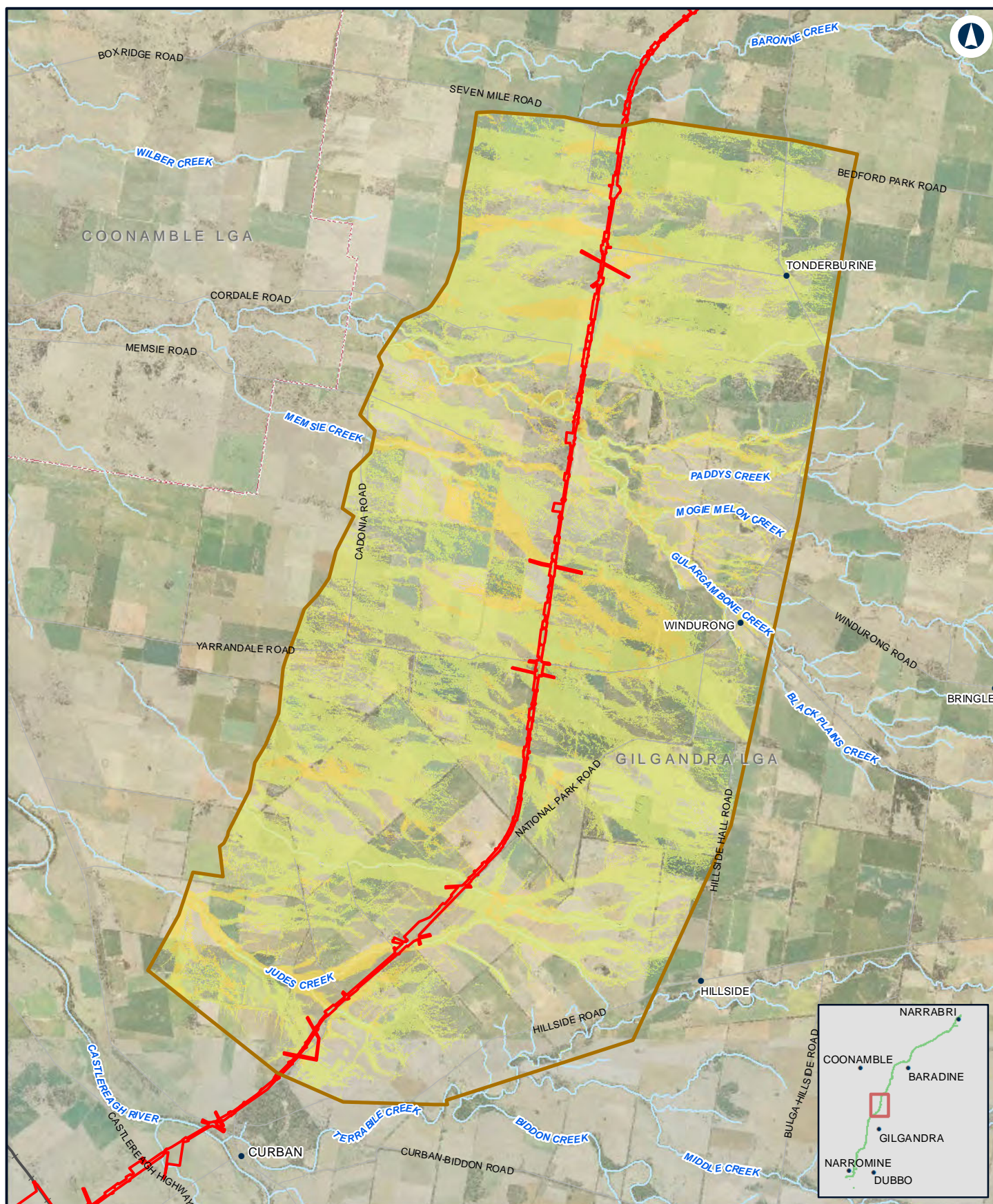
 0.1 m/s - 0.5 m/s increase

 0.5 m/s - 1 m/s increase

 > 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 0.2% AEP - N2N10

Appendix G Figure 2.8e

0 1.5 3
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 5/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:130,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

 0.1 m/s - 0.5 m/s increase

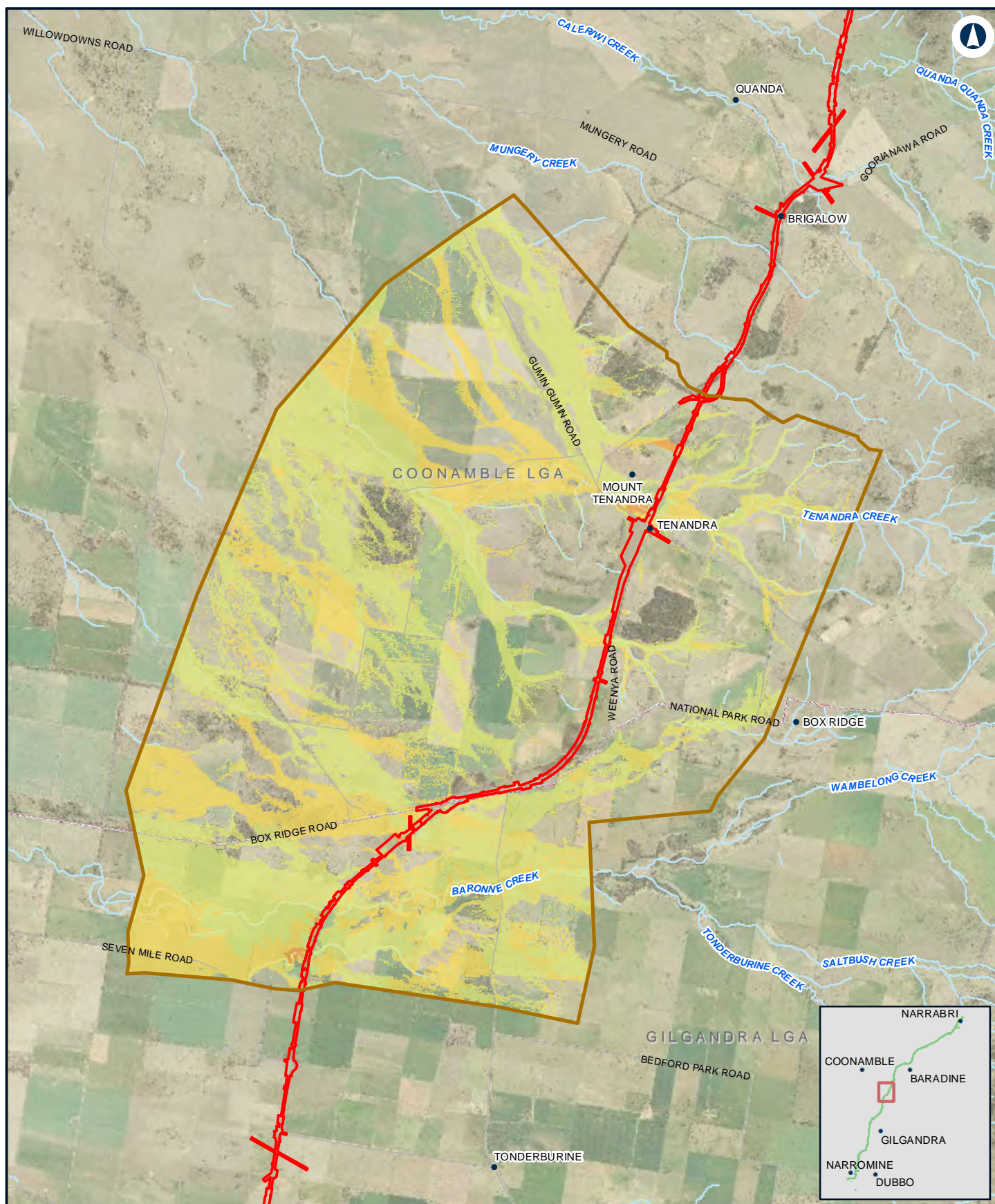
 0.5 m/s - 1 m/s increase

 > 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 0.2% AEP - N2N9

Appendix G Figure 2.8f

0 1.5 3
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 5/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:110,000

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

LEGEND

- The proposal site
- Model boundary

Change in Flood Velocity

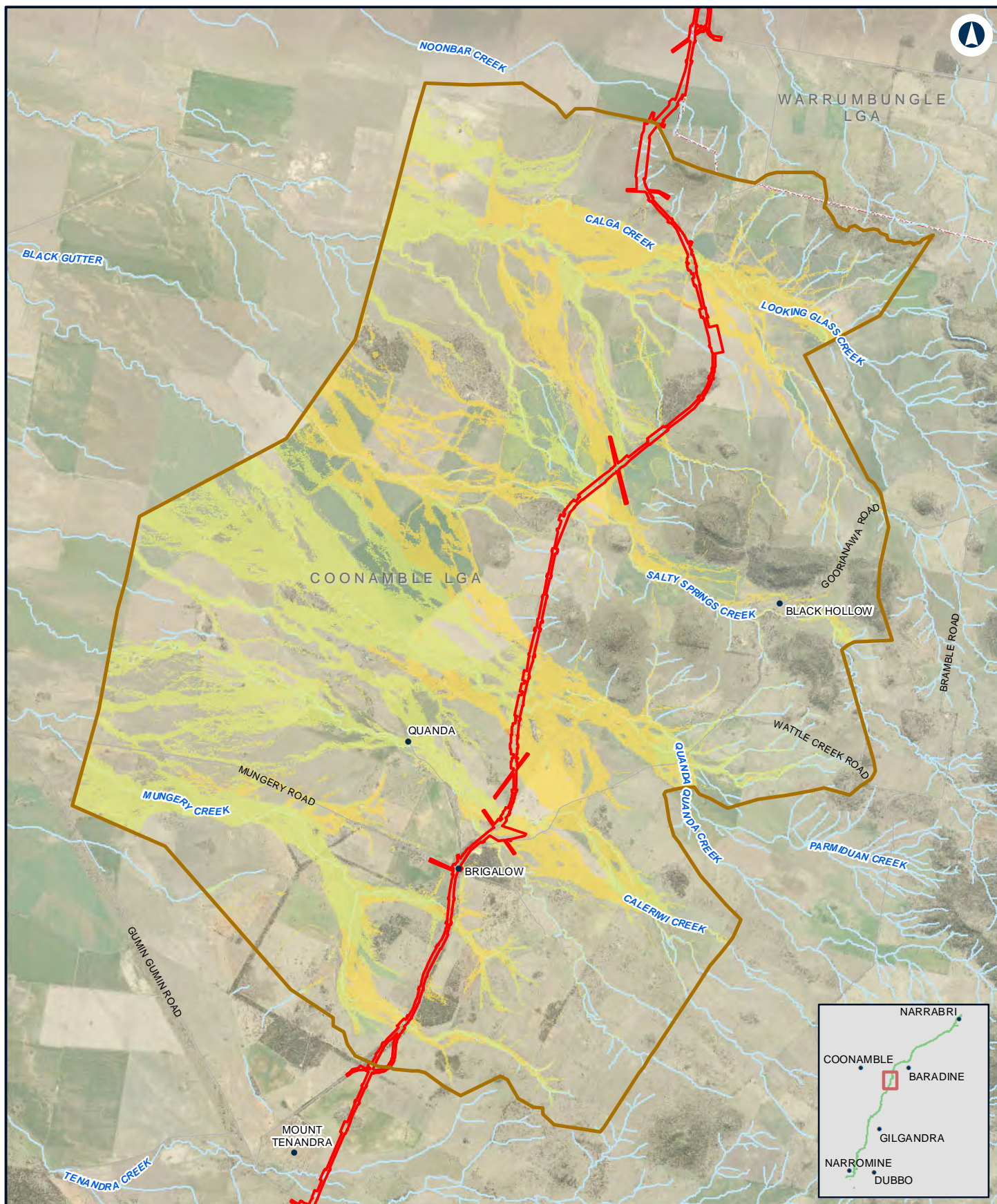
- > 1 m/s decrease
- 0.5 m/s - 1 m/s decrease
- 0.1 m/s - 0.5 m/s decrease
- 0 m/s - 0.1 m/s decrease

- 0 m/s - 0.1 m/s increase
- 0.1 m/s - 0.5 m/s increase
- 0.5 m/s - 1 m/s increase
- > 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 0.2% AEP - N2N8

Appendix G Figure 2.8g

0 1 2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 5/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:100,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

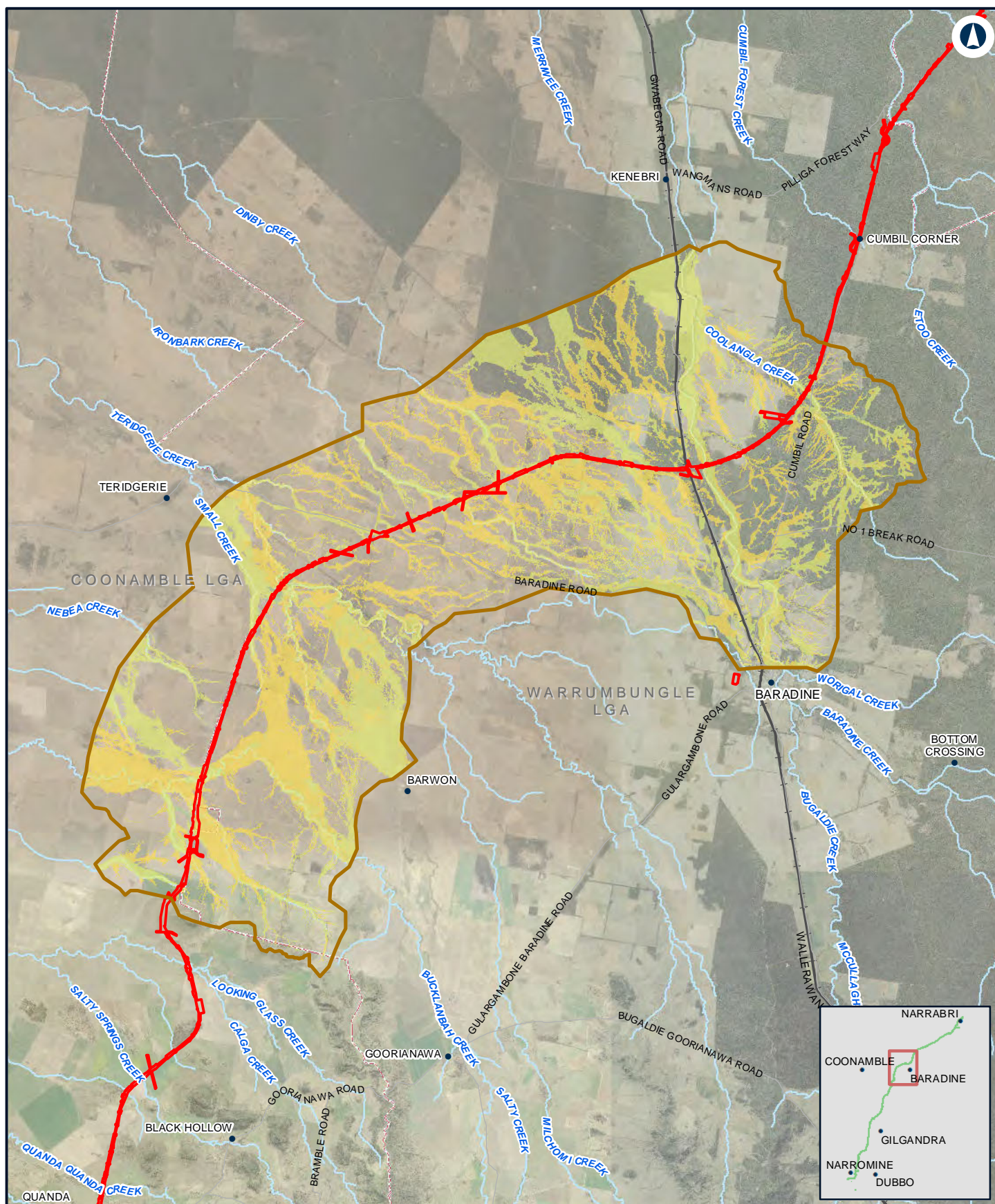
 0.1 m/s - 0.5 m/s increase

 0.5 m/s - 1 m/s increase

 > 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 0.2% AEP - N2N7

Appendix G Figure 2.8h

0 2.5 5
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 5/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:200,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

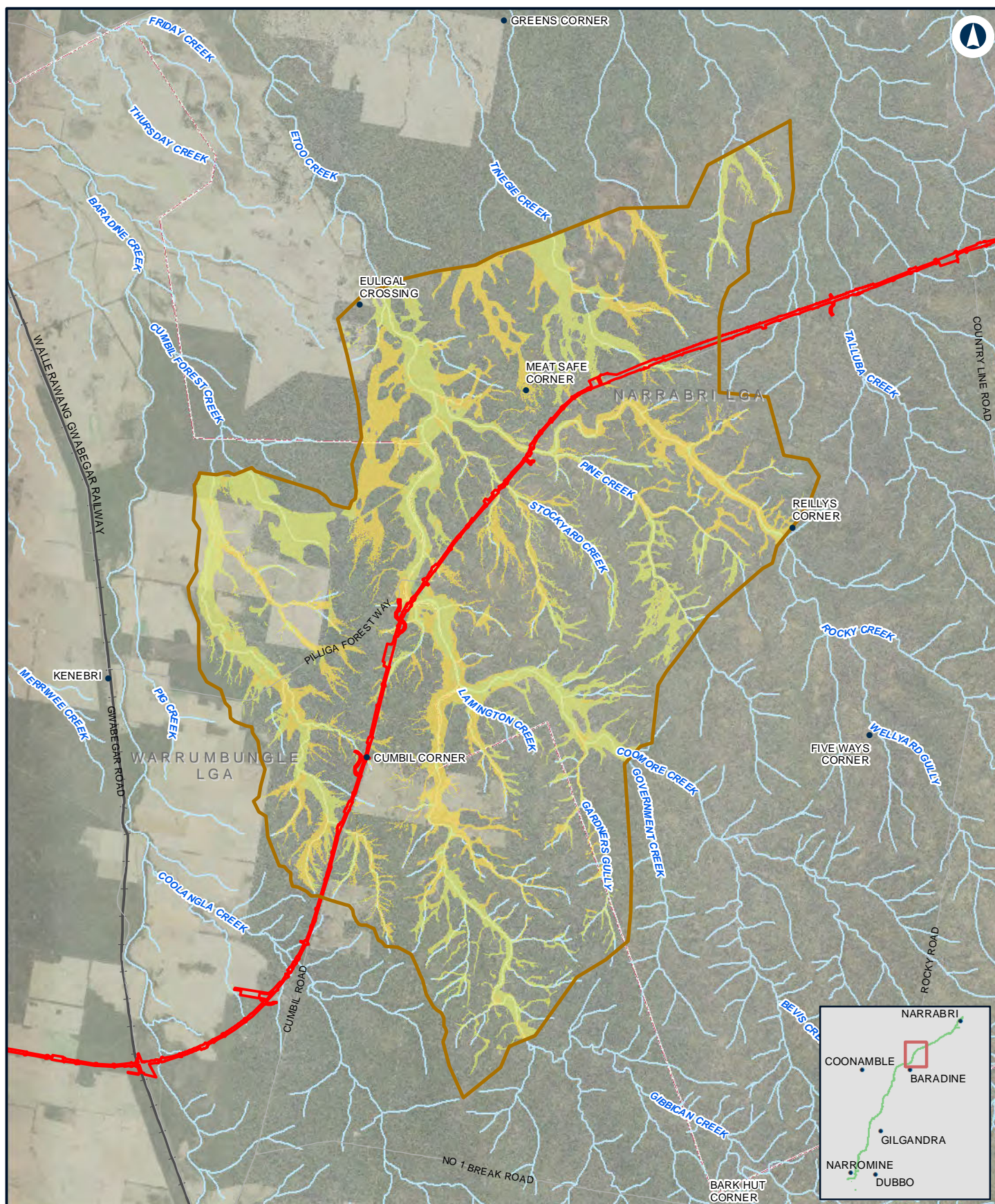
 0.1 m/s - 0.5 m/s increase

 0.5 m/s - 1 m/s increase

 > 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 0.2% AEP - N2N6

Appendix G Figure 2.8i

0 2 4 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 5/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:150,000

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

LEGEND

The proposal site

Model boundary

Change in Flood Velocity

> 1 m/s decrease

0.5 m/s - 1 m/s decrease

0.1 m/s - 0.5 m/s decrease

0 m/s - 0.1 m/s decrease

0 m/s - 0.1 m/s increase

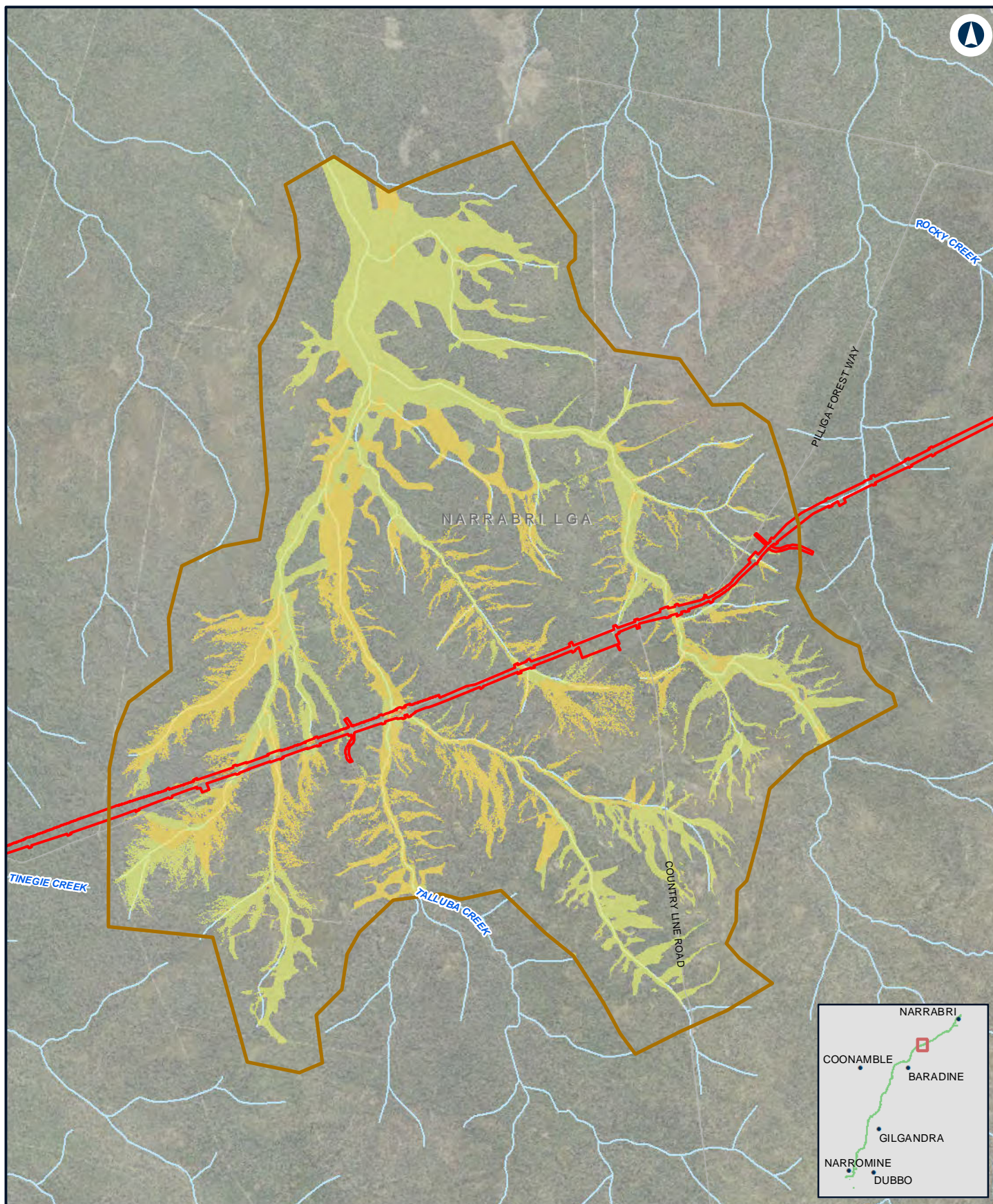
0.1 m/s - 0.5 m/s increase

0.5 m/s - 1 m/s increase

> 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 0.2% AEP - N2N5

Appendix G Figure 2.8j

0 1 2 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 5/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:70,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

 0.1 m/s - 0.5 m/s increase

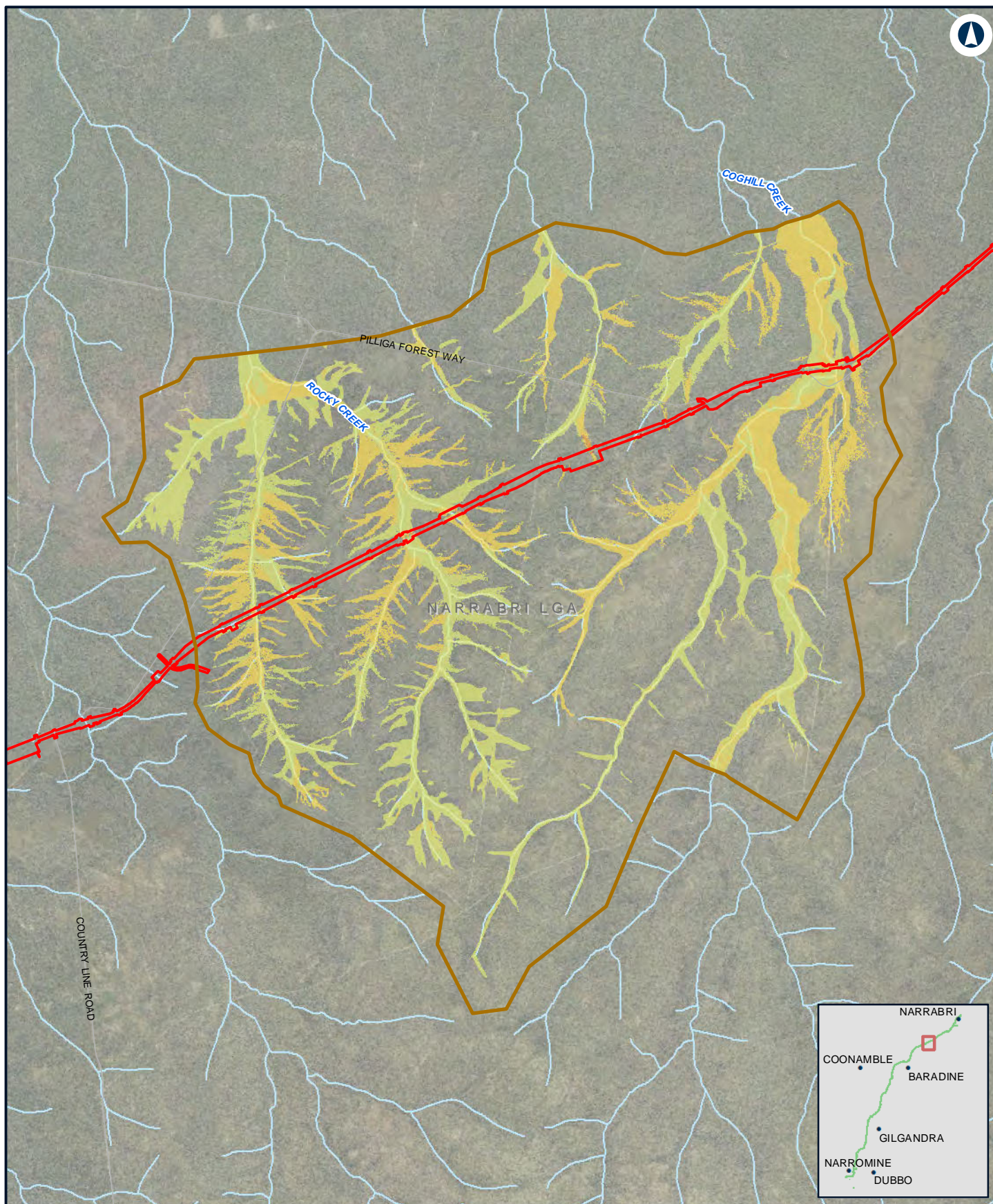
 0.5 m/s - 1 m/s increase

 > 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 0.2% AEP - N2N4

Appendix G Figure 2.8k

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: 5/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:80,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

> 1 m/s decrease

0.5 m/s - 1 m/s decrease

0.1 m/s - 0.5 m/s decrease

0 m/s - 0.1 m/s decrease

0 m/s - 0.1 m/s increase

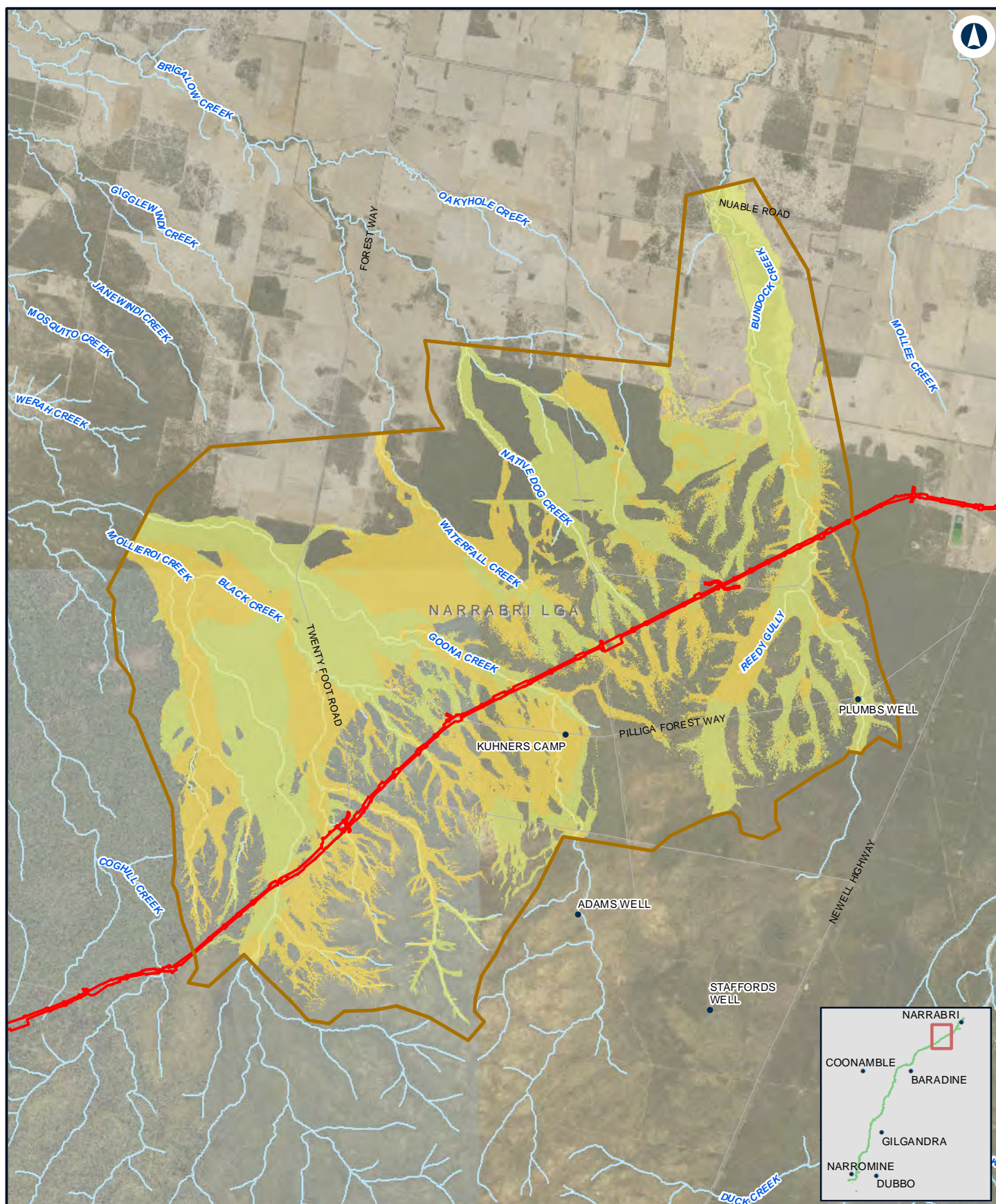
0.1 m/s - 0.5 m/s increase

0.5 m/s - 1 m/s increase

> 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 0.2% AEP - N2N23

Appendix G Figure 2.8I

0 1.5 3
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 5/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:140,000

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

LEGEND

The proposal site

Model boundary

Change in Flood Velocity

> 1 m/s decrease

0.5 m/s - 1 m/s decrease

0.1 m/s - 0.5 m/s decrease

0 m/s - 0.1 m/s decrease

0 m/s - 0.1 m/s increase

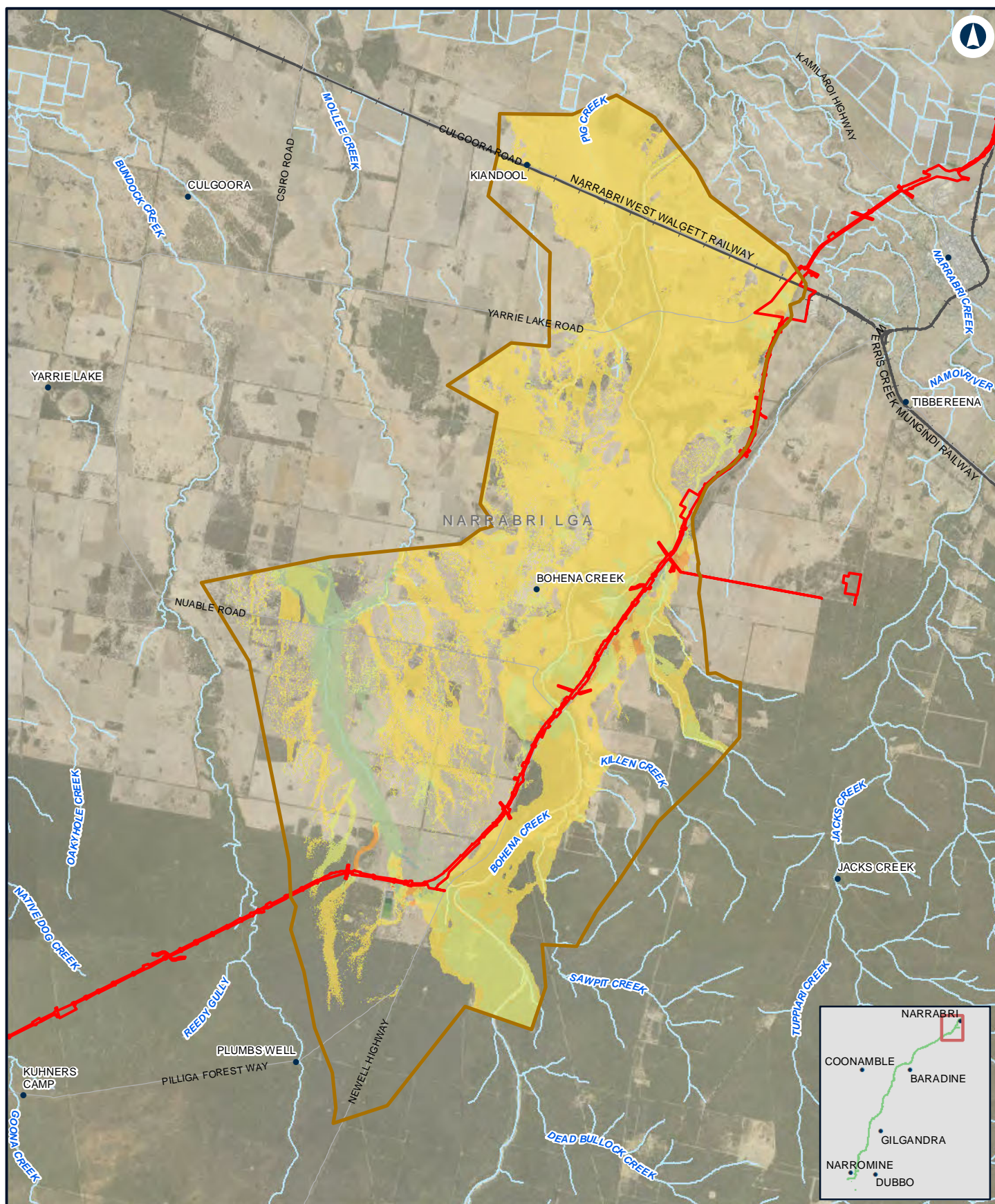
0.1 m/s - 0.5 m/s increase

0.5 m/s - 1 m/s increase

> 1 m/s increase

INLAND RAIL **ARTC**

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0 2 4 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 5/08/2022

Author: JacobsGHD

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

Paper: A4

Scale: 1:150,000

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

 0.1 m/s - 0.5 m/s increase

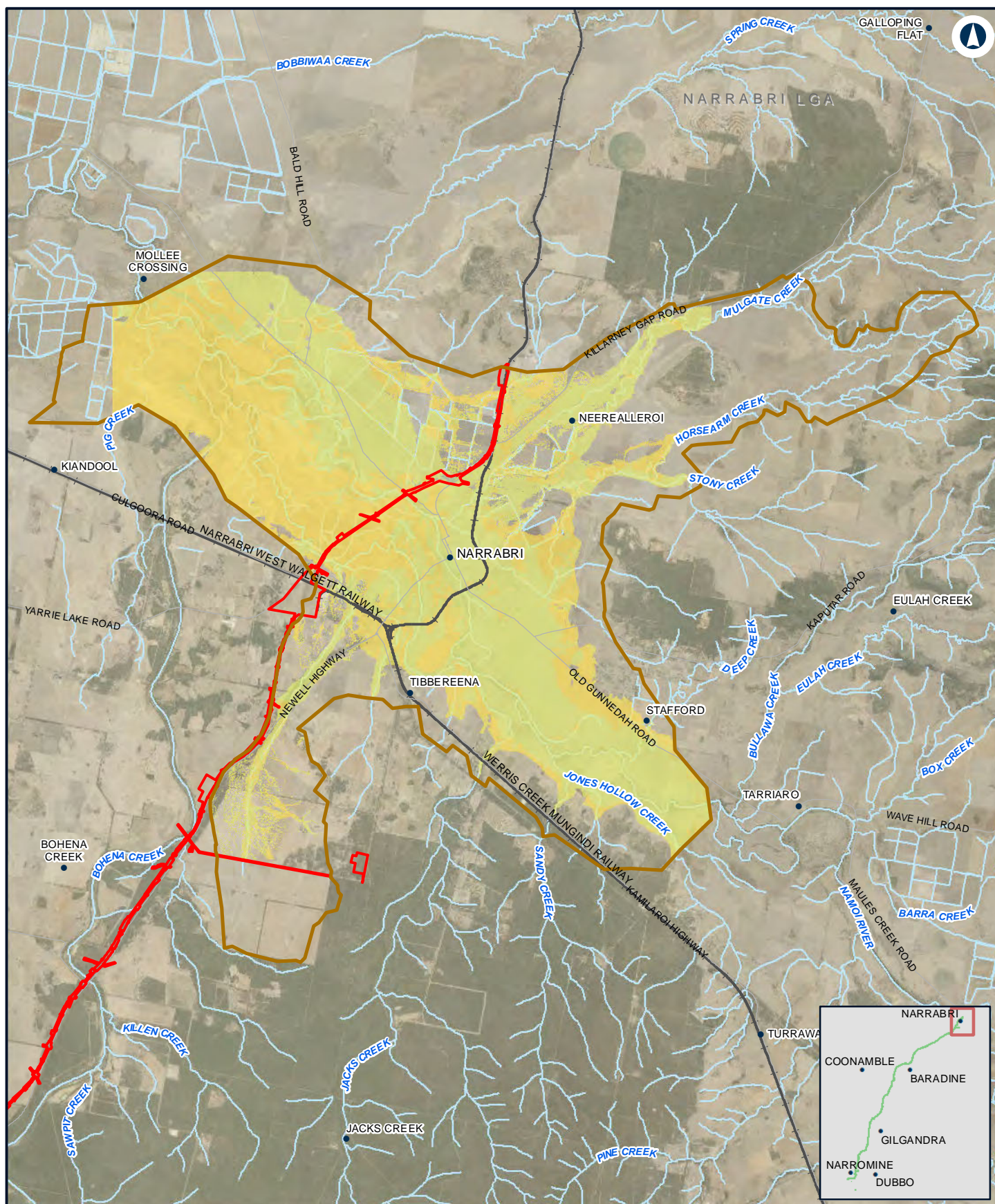
 0.5 m/s - 1 m/s increase

 > 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 0.2% AEP - Narrabri

Appendix G Figure 2.8n

0 2 4
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 5/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:160,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

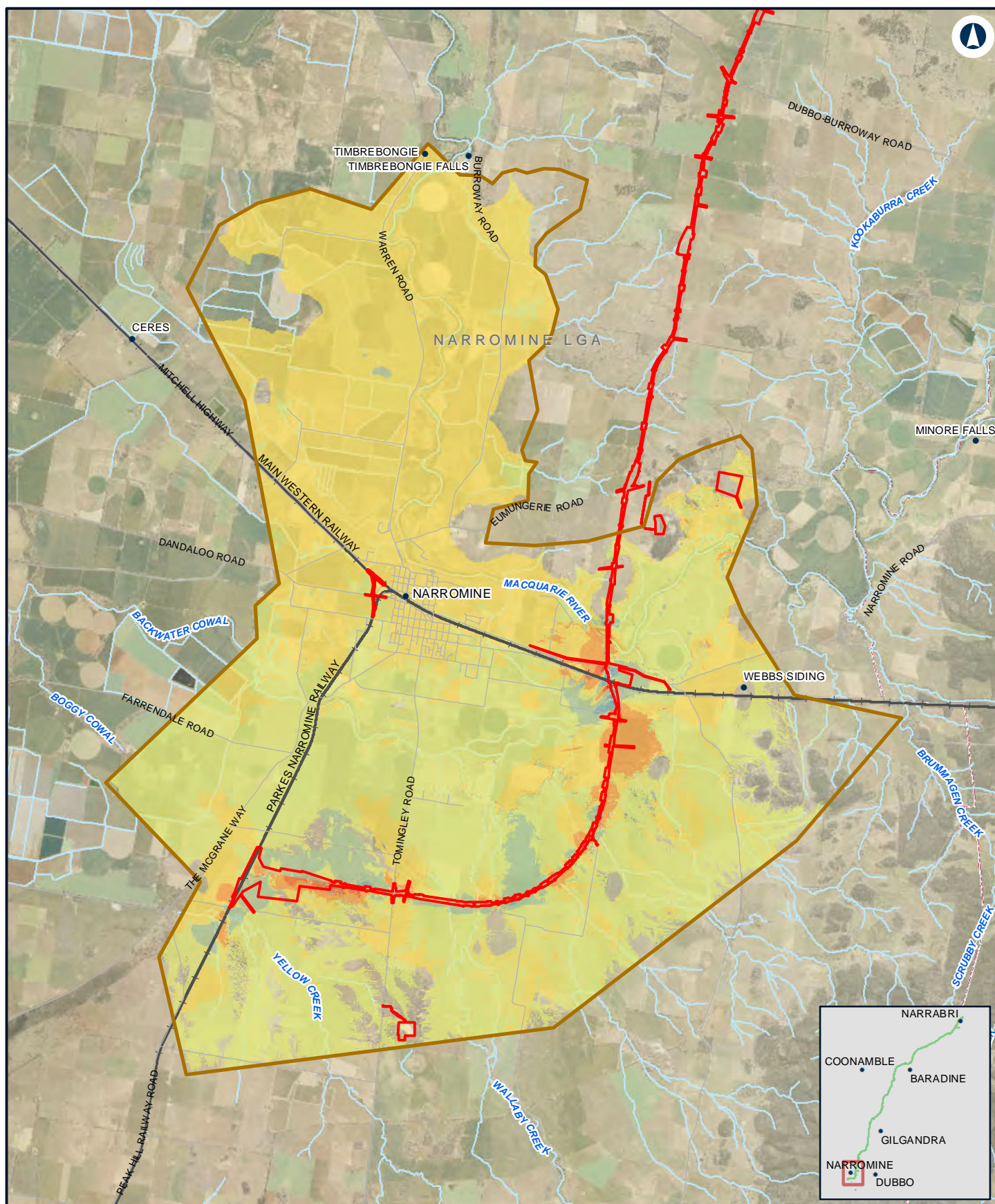
 0.1 m/s - 0.5 m/s increase

 0.5 m/s - 1 m/s increase

 > 1 m/s increase

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Change in velocity - PMF - NFM

Appendix G - Figure 2.9a

0 1.5 3 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:140,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

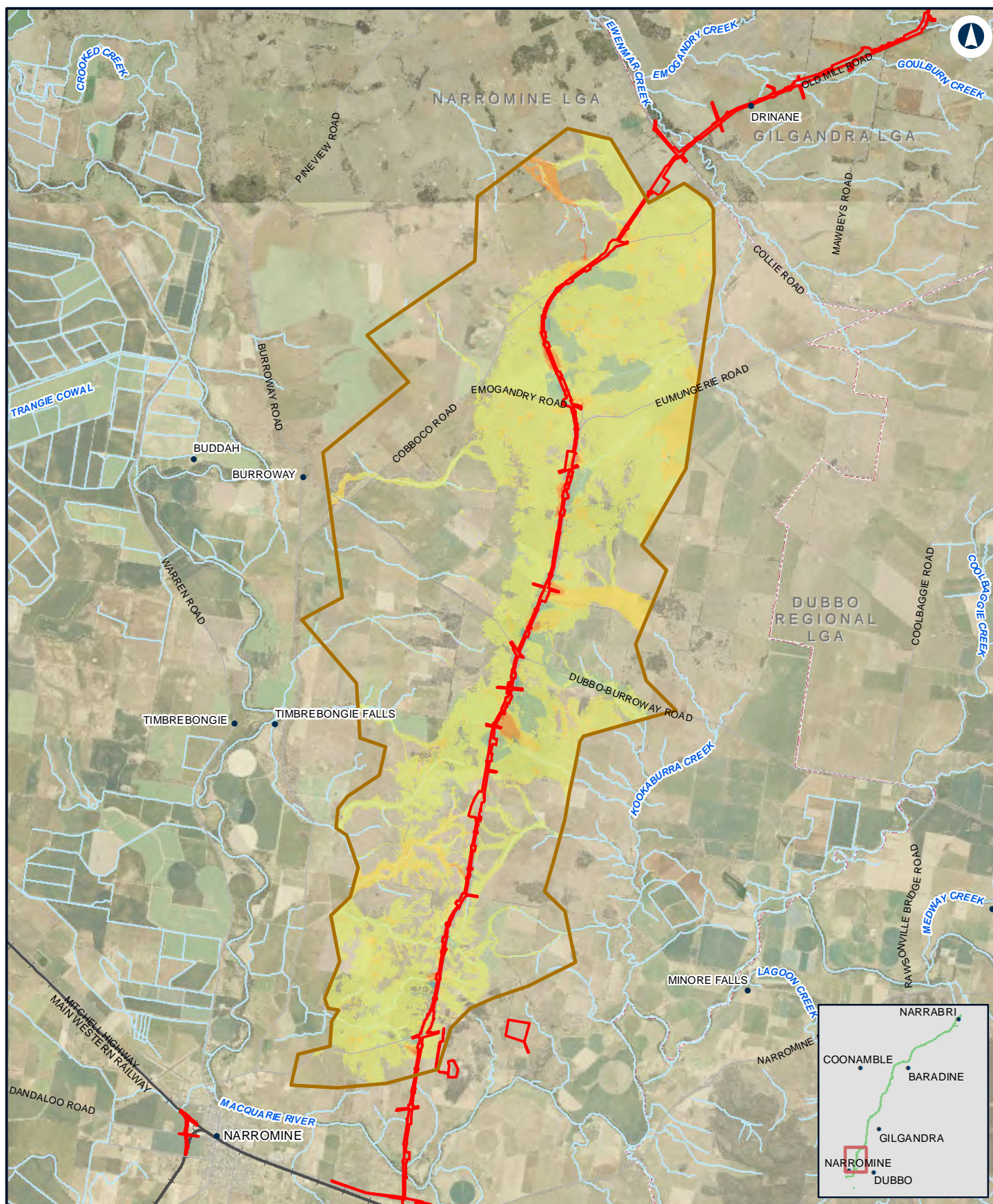
 0.1 m/s - 0.5 m/s increase

 0.5 m/s - 1 m/s increase

 > 1 m/s increase

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Change in velocity - PMF - N2N14

Appendix G - Figure 2.9b

0 2 4 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:150,000

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

LEGEND

The proposal site

Model boundary

Change in Flood Velocity

> 1 m/s decrease

0.5 m/s - 1 m/s decrease

0.1 m/s - 0.5 m/s decrease

0 m/s - 0.1 m/s decrease

0 m/s - 0.1 m/s increase

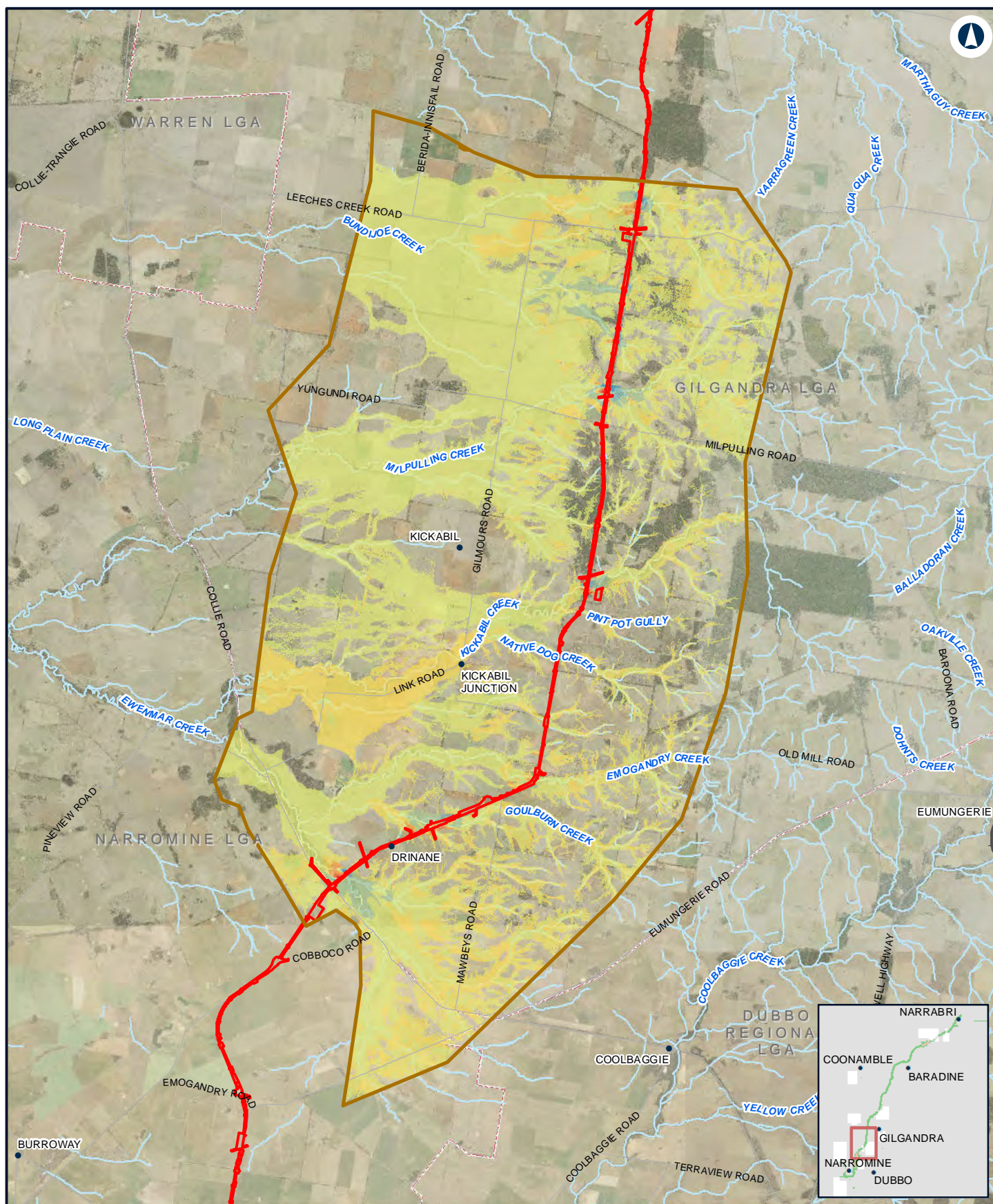
0.1 m/s - 0.5 m/s increase

0.5 m/s - 1 m/s increase

> 1 m/s increase

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0 2.5 5 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:180,000

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

LEGEND

- The proposal site
- Model boundary

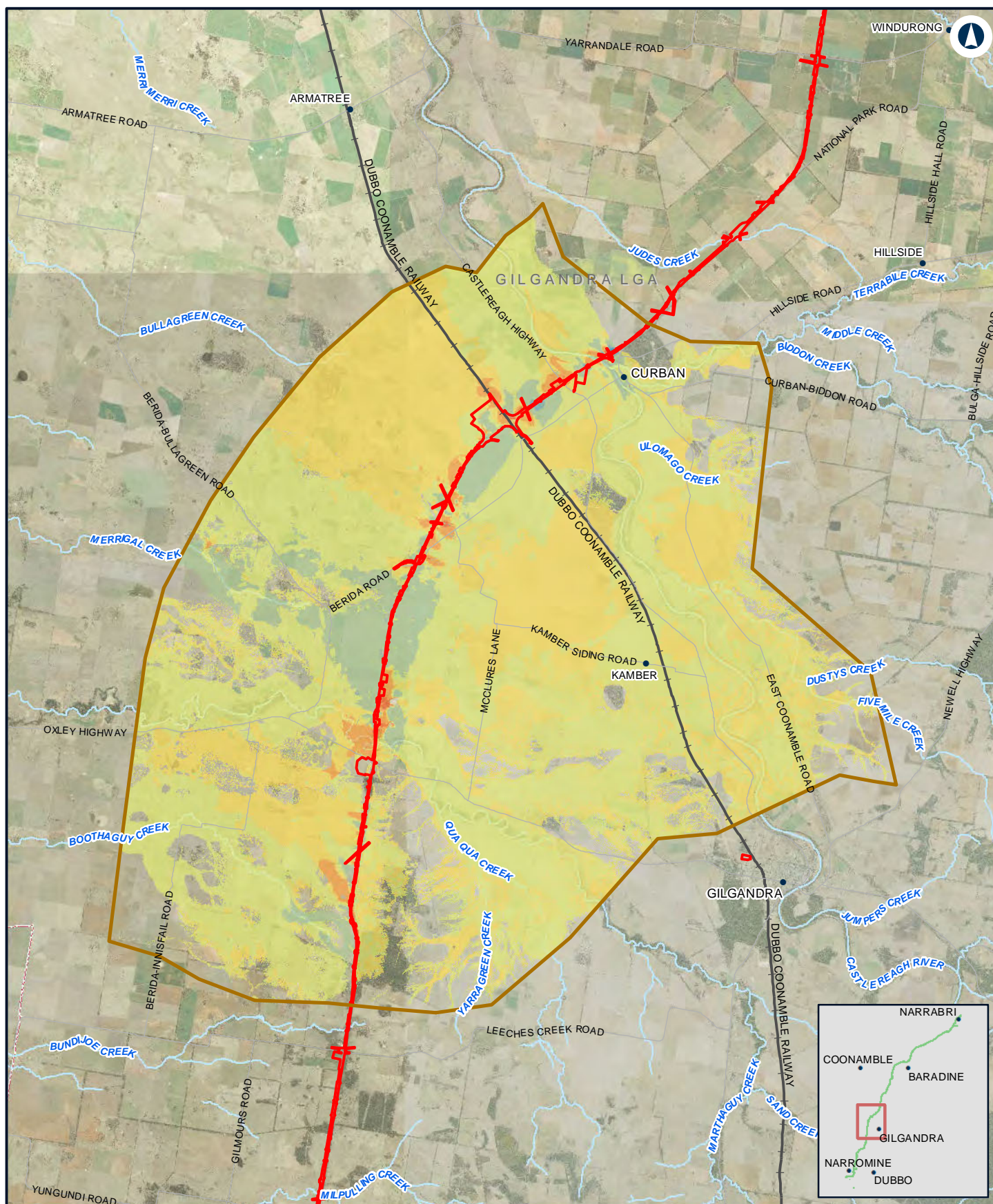
Change in Flood Velocity

- > 1 m/s decrease
- 0.5 m/s - 1 m/s decrease
- 0.1 m/s - 0.5 m/s decrease
- 0 m/s - 0.1 m/s decrease

- 0 m/s - 0.1 m/s increase
- 0.1 m/s - 0.5 m/s increase
- 0.5 m/s - 1 m/s increase
- > 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - PMF - N2N11N12

Appendix G - Figure 2.9d

0 2.5 5
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:200,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

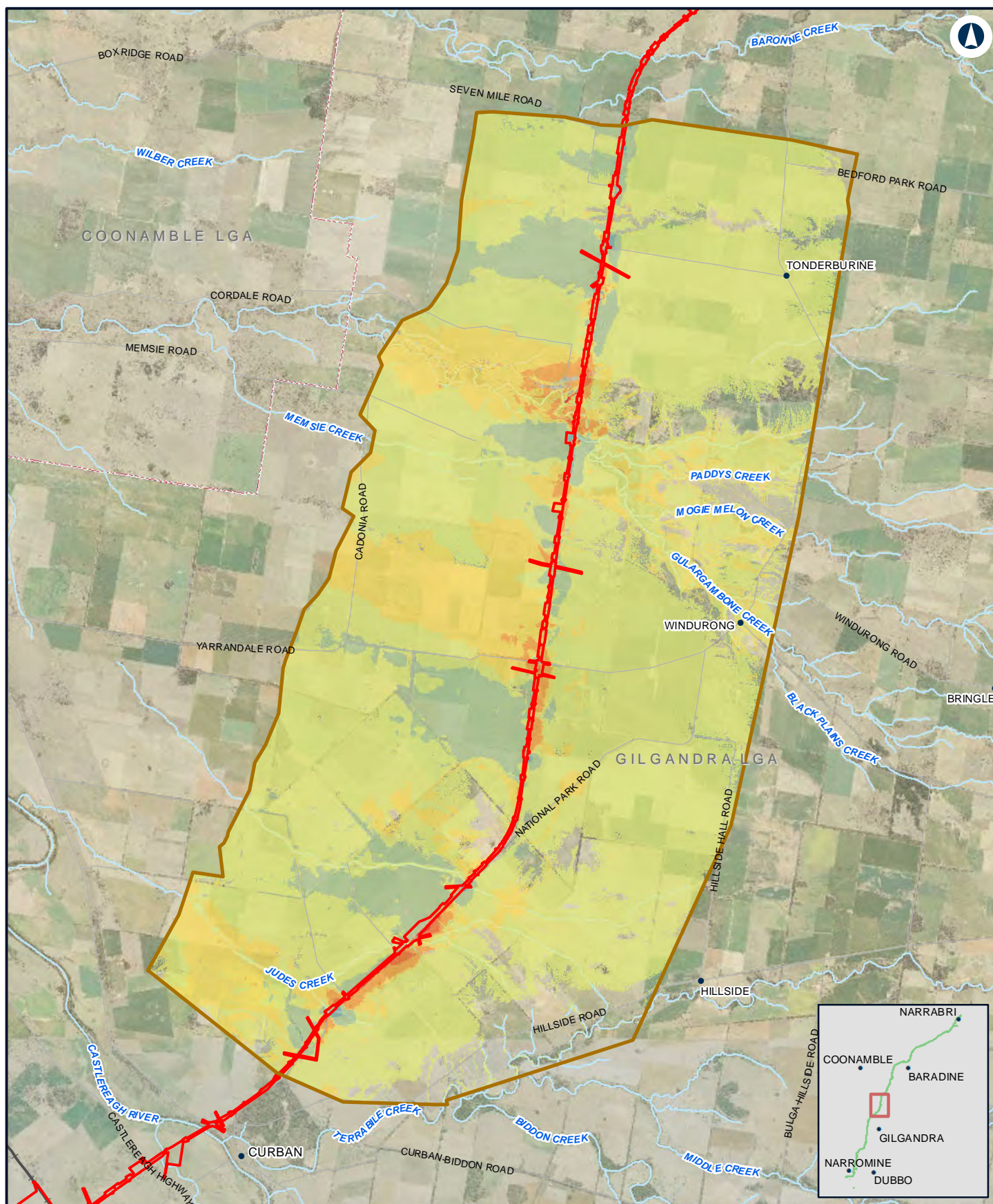
 0.1 m/s - 0.5 m/s increase

 0.5 m/s - 1 m/s increase

 > 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - PMF - N2N10

Appendix G - Figure 2.9e

0 1.5 3
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:130,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

 0.1 m/s - 0.5 m/s increase

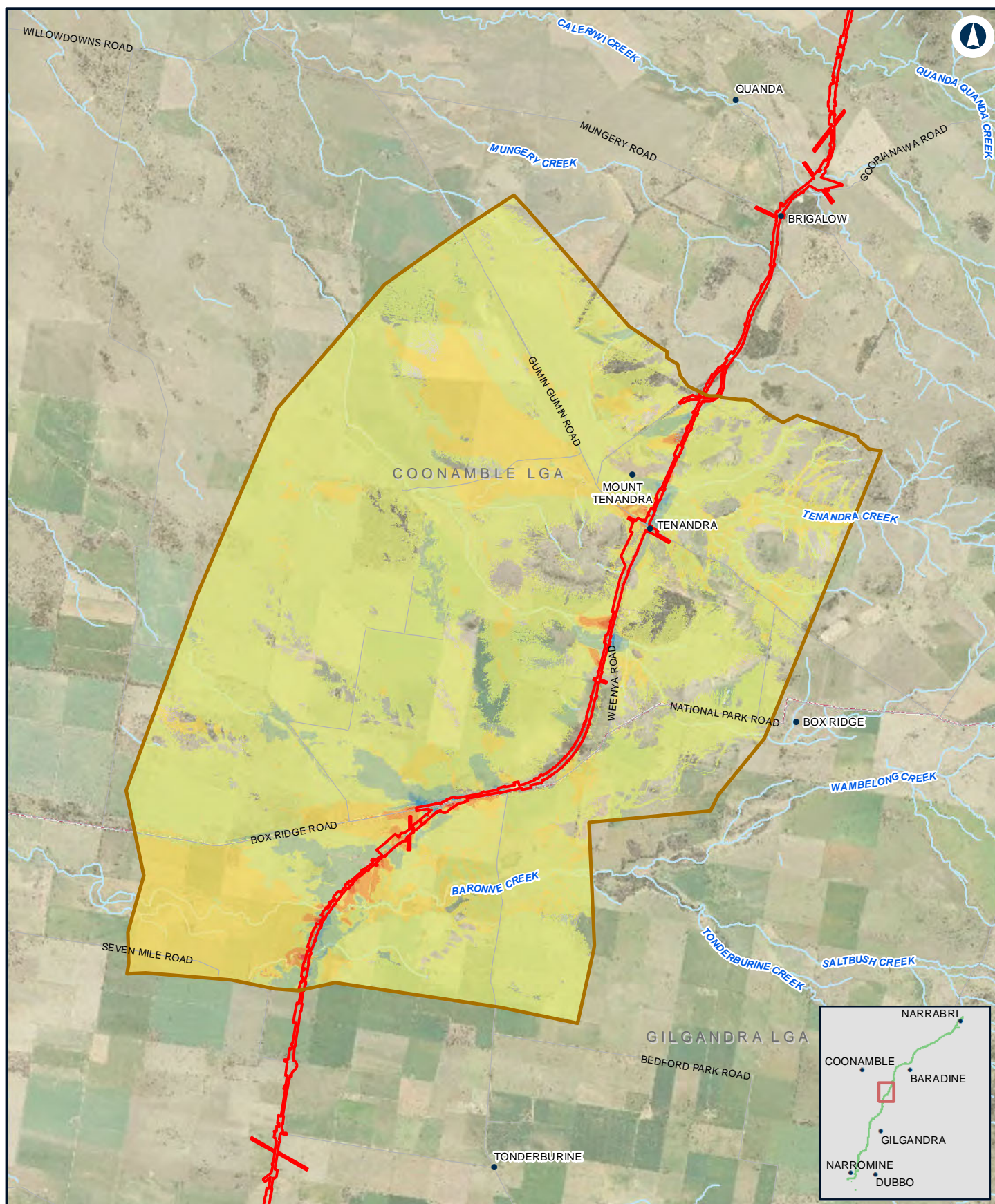
 0.5 m/s - 1 m/s increase

 > 1 m/s increase

**INLAND
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NARROMINE TO NARRABRI

Change in velocity - PMF - N2N9

Appendix G - Figure 2.9f

0 1.5 3 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:110,000

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

LEGEND

- The proposal site
- Model boundary

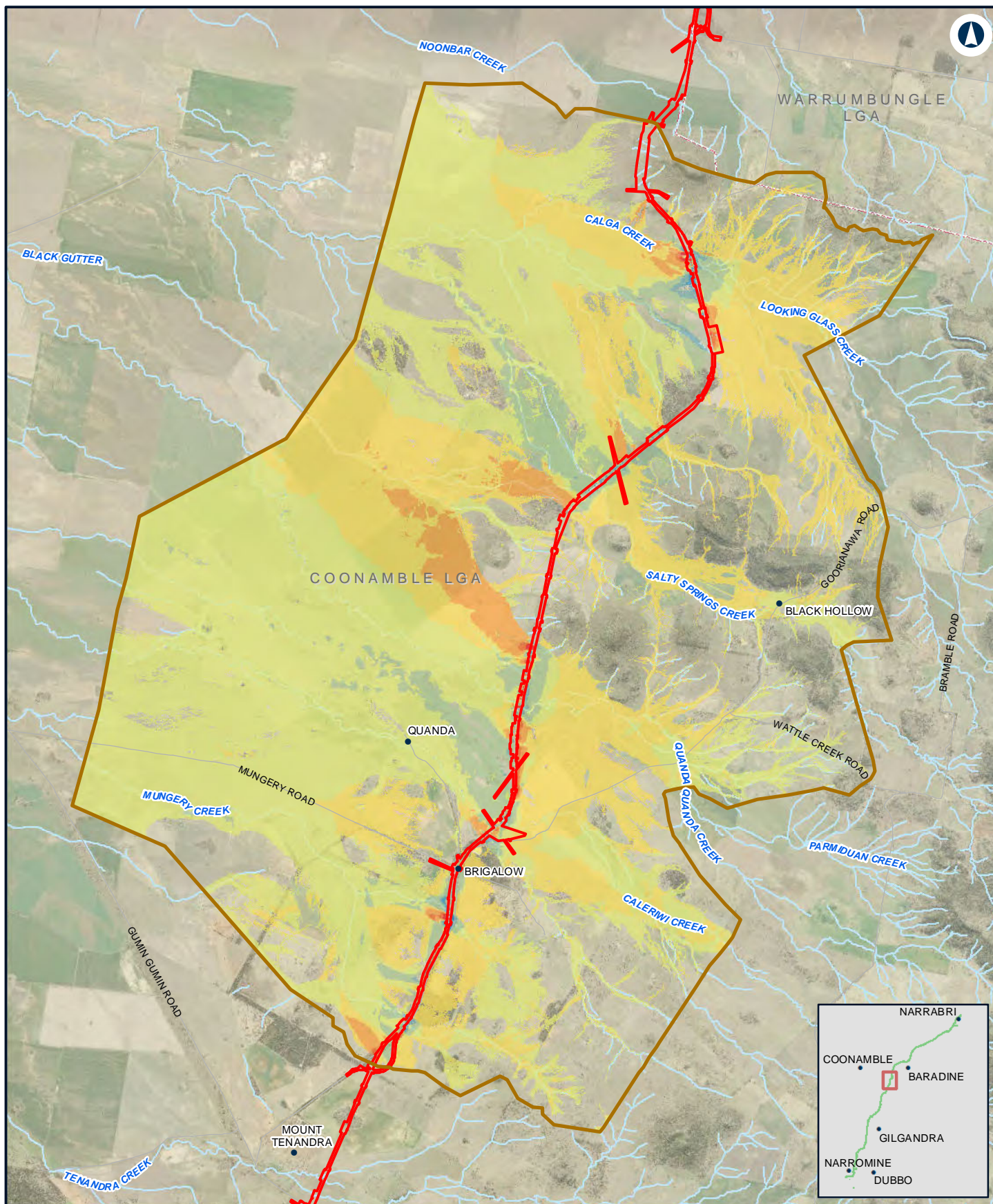
Change in Flood Velocity

- > 1 m/s decrease
- 0.5 m/s - 1 m/s decrease
- 0.1 m/s - 0.5 m/s decrease
- 0 m/s - 0.1 m/s decrease

- 0 m/s - 0.1 m/s increase
- 0.1 m/s - 0.5 m/s increase
- 0.5 m/s - 1 m/s increase
- > 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - PMF - N2N8

Appendix G - Figure 2.9g

0 1 2 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:100,000

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

LEGEND

The proposal site

Model boundary

Change in Flood Velocity

> 1 m/s decrease

0.5 m/s - 1 m/s decrease

0.1 m/s - 0.5 m/s decrease

0 m/s - 0.1 m/s decrease

0 m/s - 0.1 m/s increase

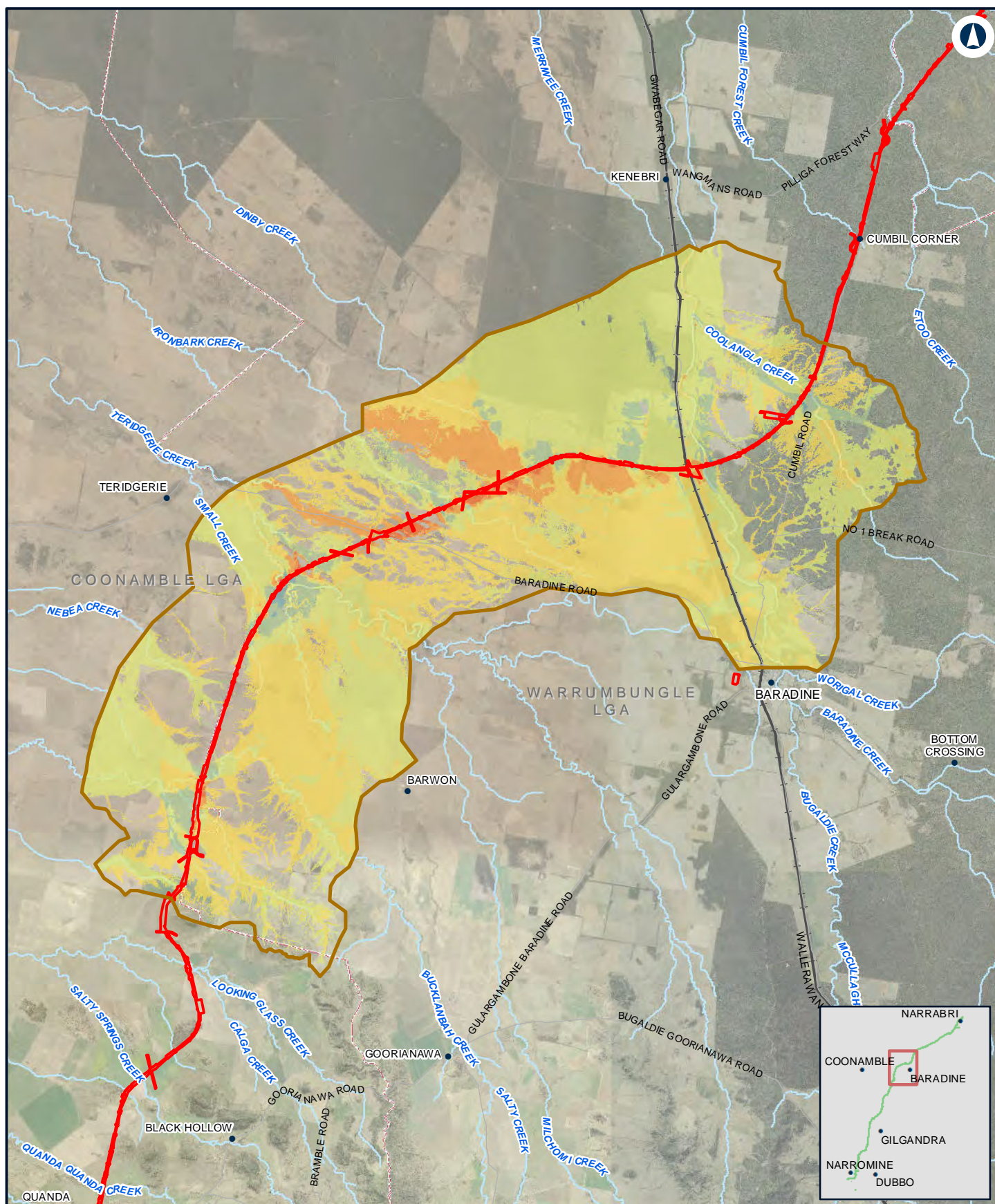
0.1 m/s - 0.5 m/s increase

0.5 m/s - 1 m/s increase

> 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - PMF - N2N7

Appendix G - Figure 2.9h

0 2.5 5
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:200,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

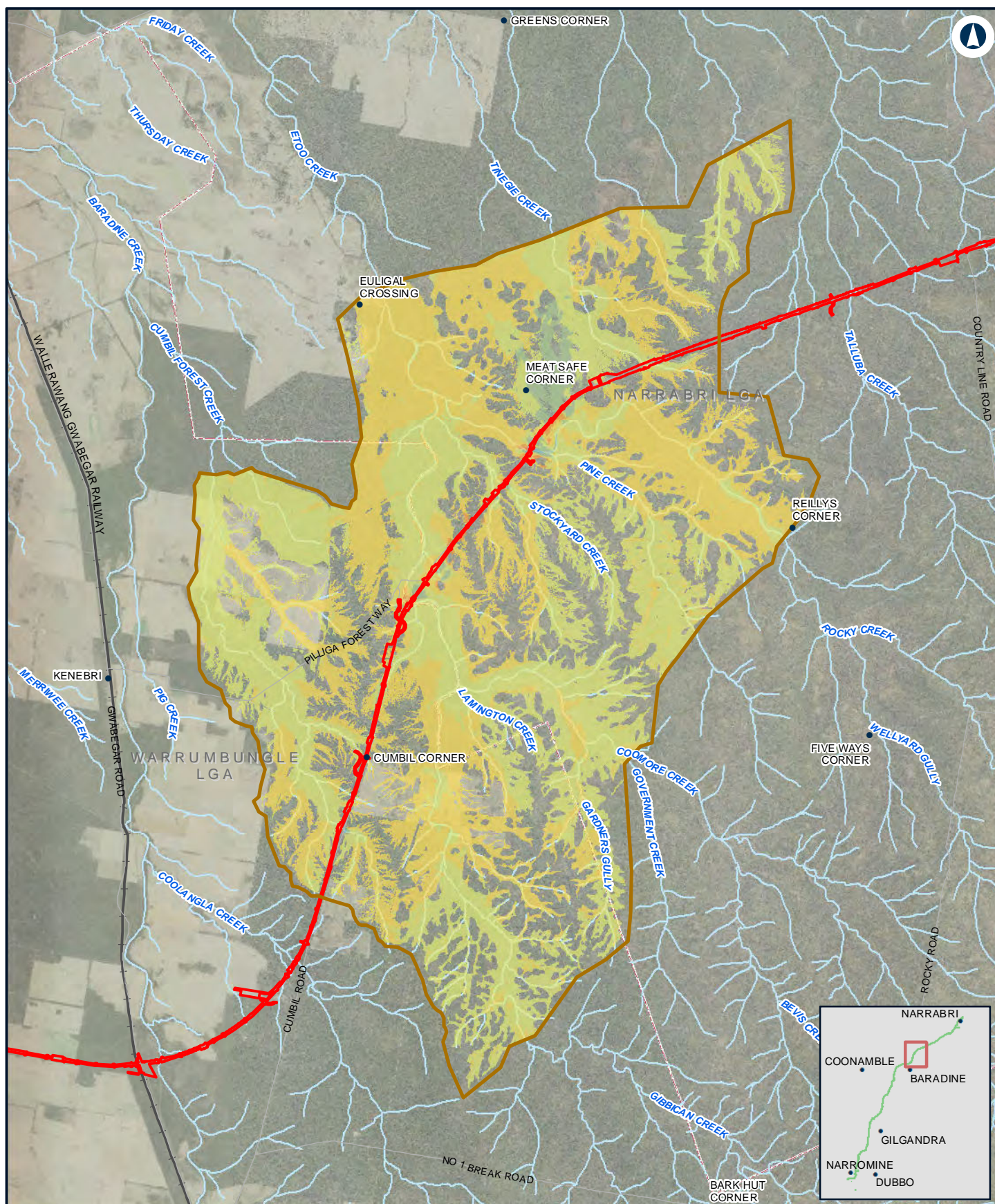
 0.1 m/s - 0.5 m/s increase

 0.5 m/s - 1 m/s increase

 > 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - PMF - N2N6

Appendix G - Figure 2.9i

0 2 4 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:150,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

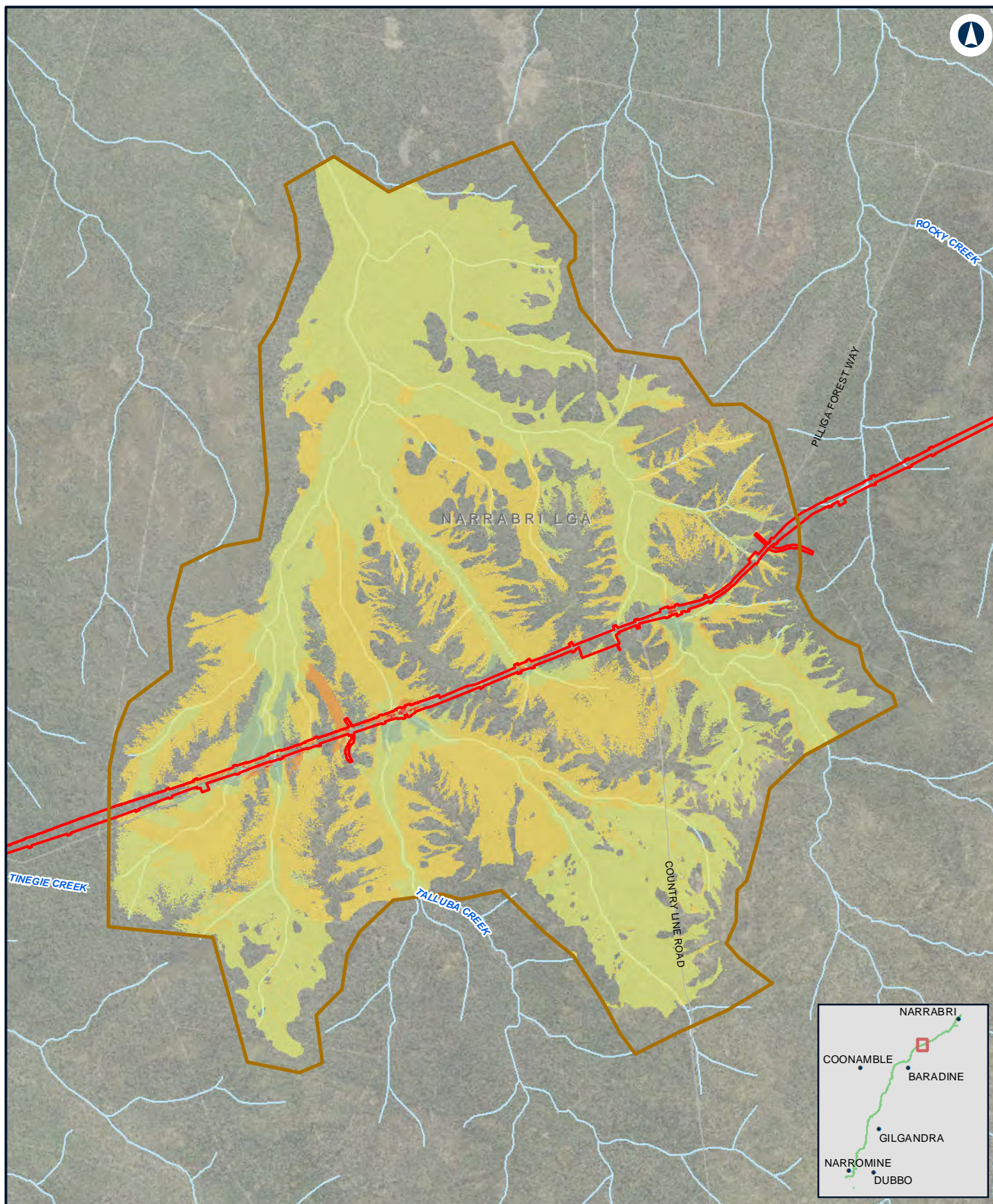
 0.1 m/s - 0.5 m/s increase

 0.5 m/s - 1 m/s increase

 > 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - PMF - N2N5

Appendix G - Figure 2.9j

0 1 2 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:70,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

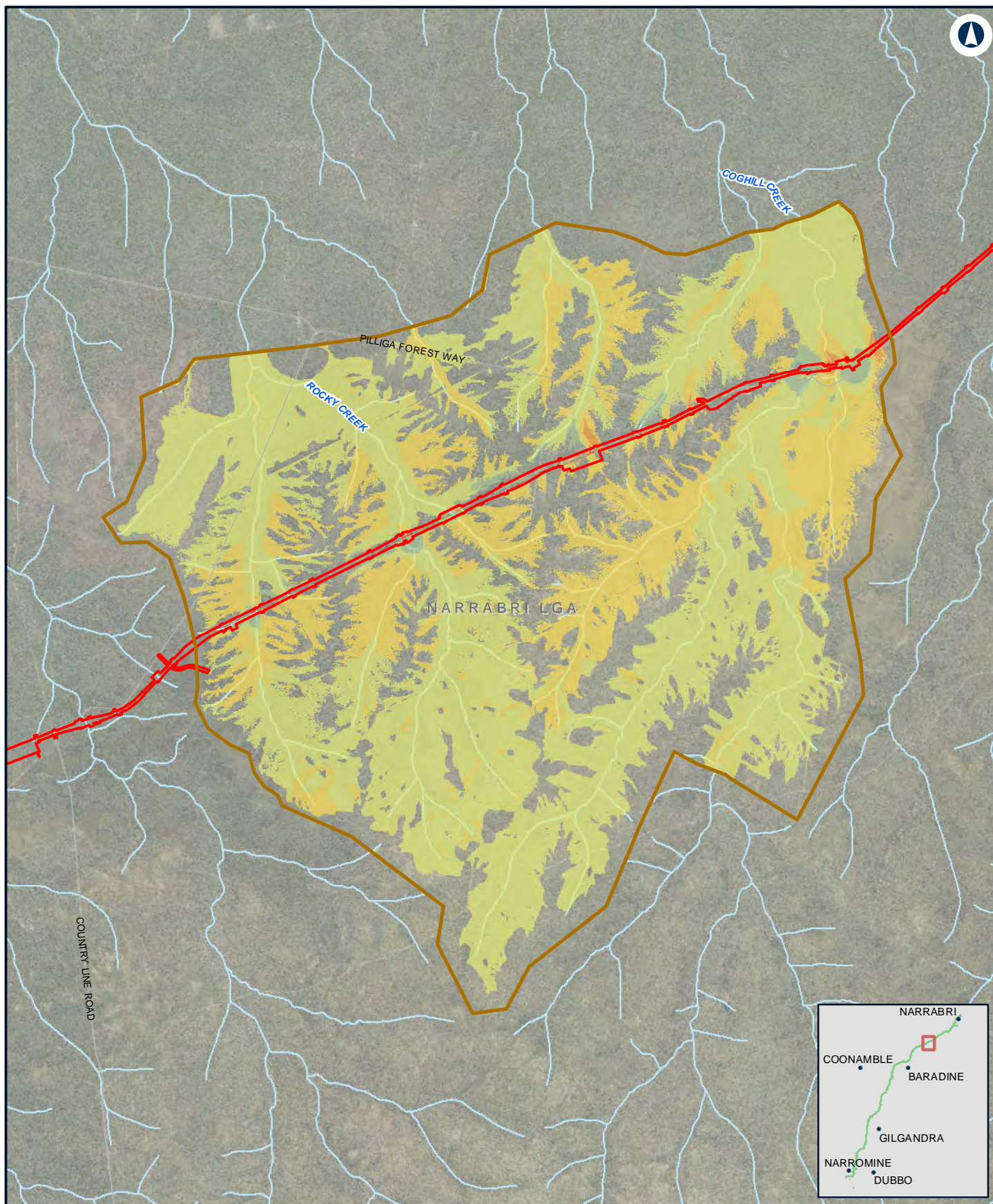
 0.1 m/s - 0.5 m/s increase

 0.5 m/s - 1 m/s increase

 > 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - PMF - N2N4

Appendix G - Figure 2.9k

0 1 2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:80,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

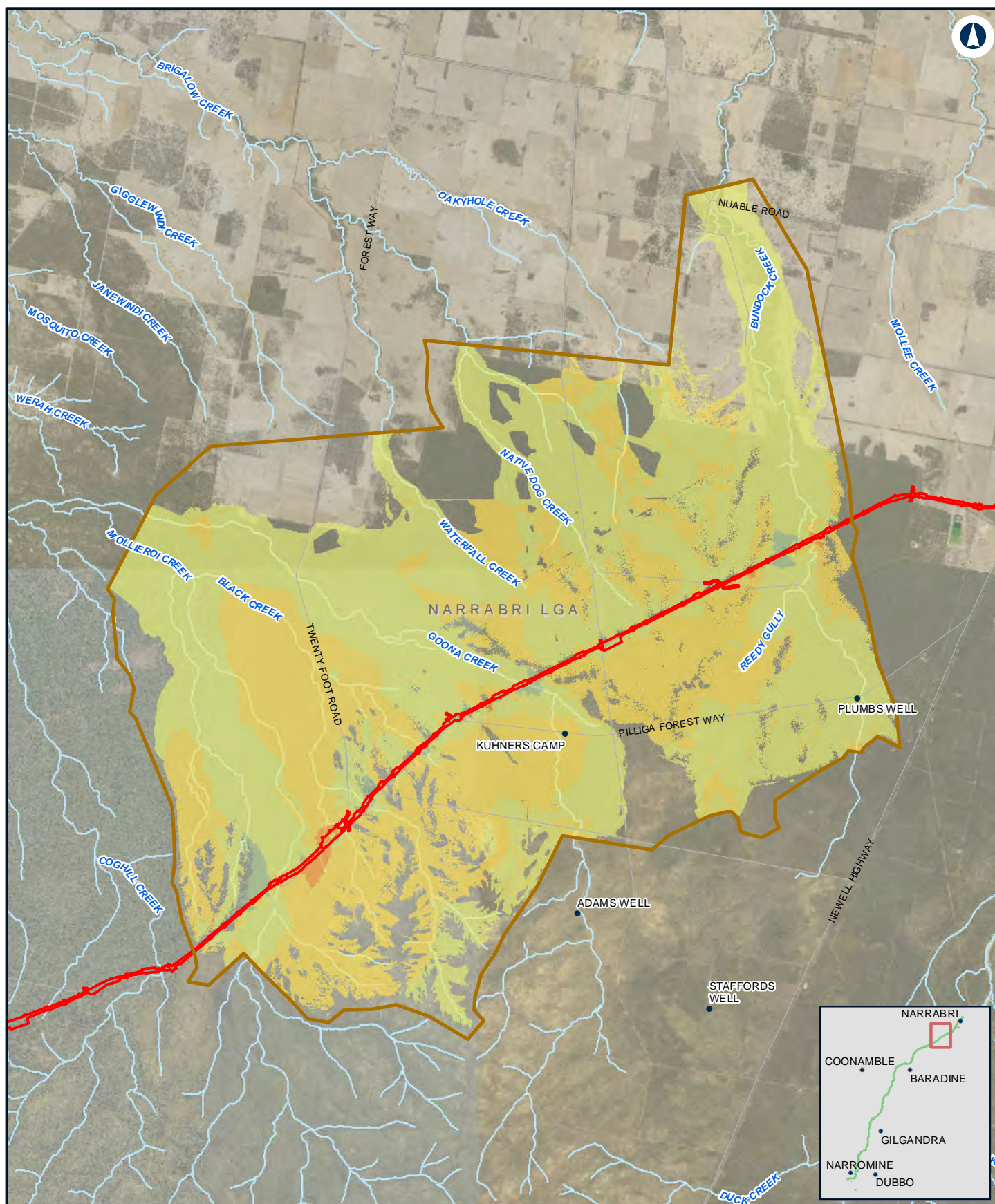
 0.1 m/s - 0.5 m/s increase

 0.5 m/s - 1 m/s increase

 > 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - PMF - N2N23

Appendix G - Figure 2.9I

0 1.5 3 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:140,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

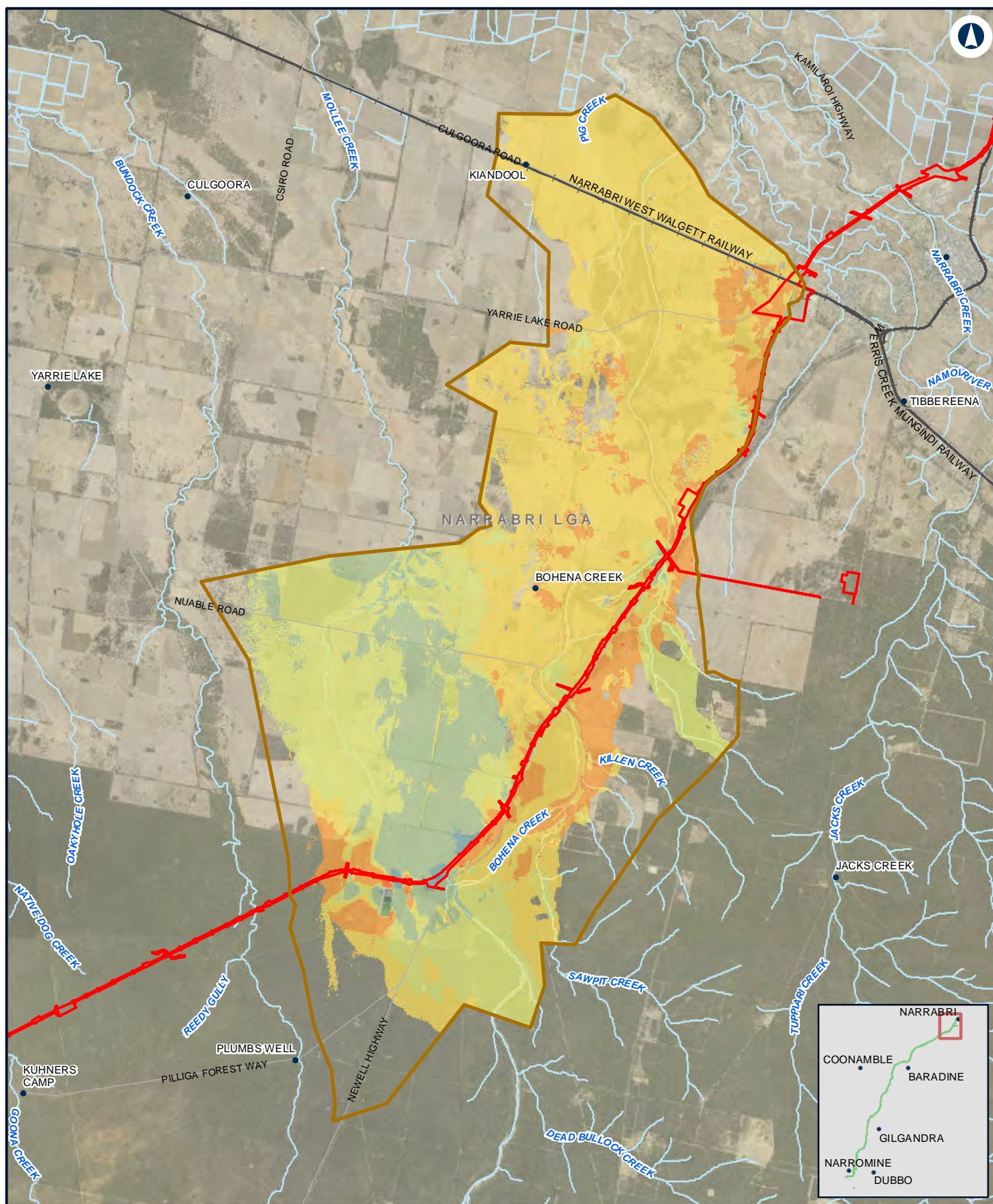
 0.1 m/s - 0.5 m/s increase

 0.5 m/s - 1 m/s increase

 > 1 m/s increase

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0 2 4 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:150,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

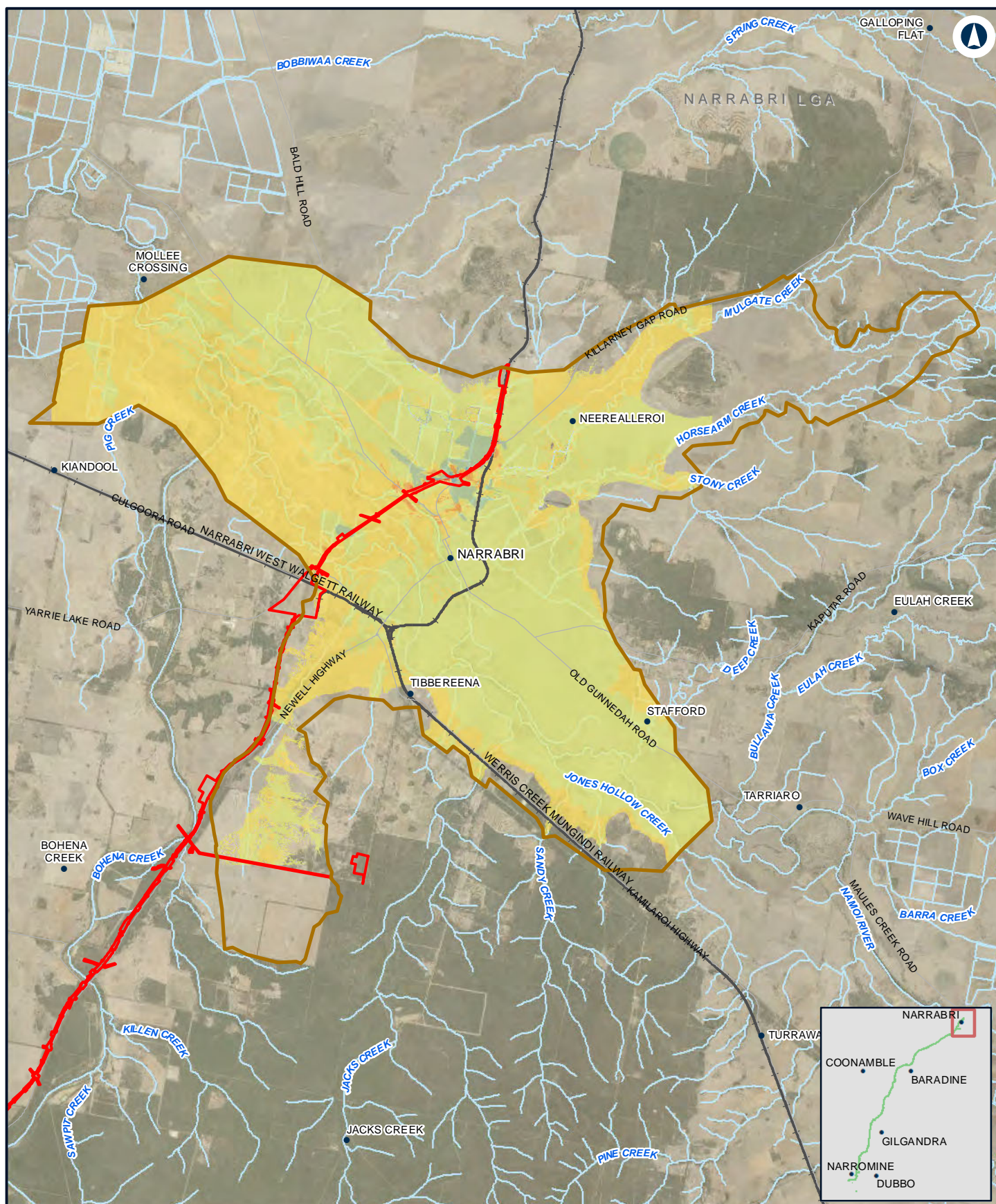
 0.1 m/s - 0.5 m/s increase

 0.5 m/s - 1 m/s increase

 > 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - PMF - Narrabri

Appendix G - Figure 2.9n

0 2 4 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:160,000

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

LEGEND

 The proposal site

 Model boundary

Change in Flood Velocity

 > 1 m/s decrease

 0.5 m/s - 1 m/s decrease

 0.1 m/s - 0.5 m/s decrease

 0 m/s - 0.1 m/s decrease

 0 m/s - 0.1 m/s increase

 0.1 m/s - 0.5 m/s increase

 0.5 m/s - 1 m/s increase

 > 1 m/s increase

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