

# TECHNICAL REPORT

INLAND  
RAIL 

# 3

## Flooding and hydrology assessment

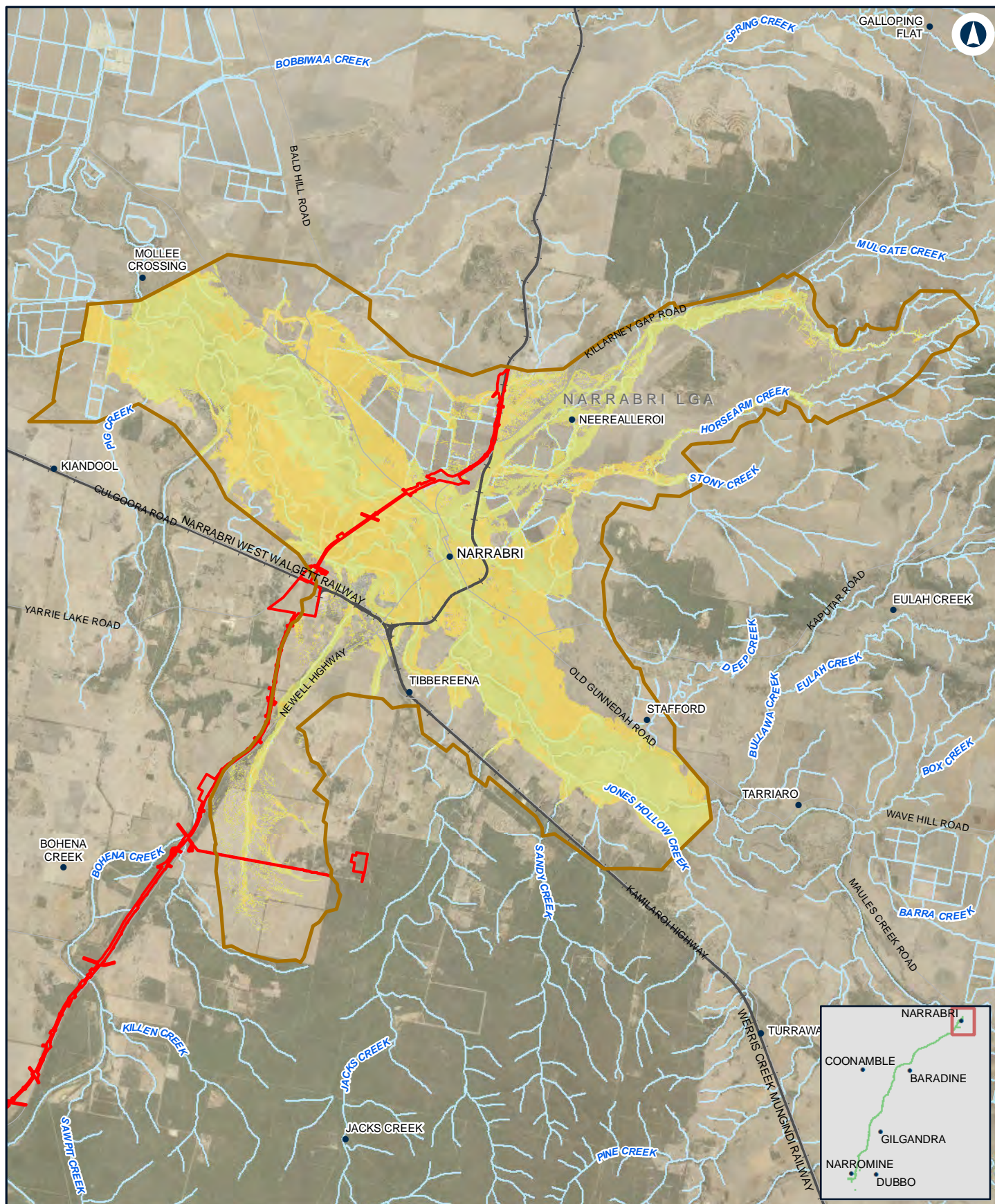
PART 8 OF 12

Appendix G continued...

NARROMINE TO NARRABRI ENVIRONMENTAL IMPACT STATEMENT

ARTC

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



## 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: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:160,000

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

### LEGEND

  The proposal site

  Model boundary

#### 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

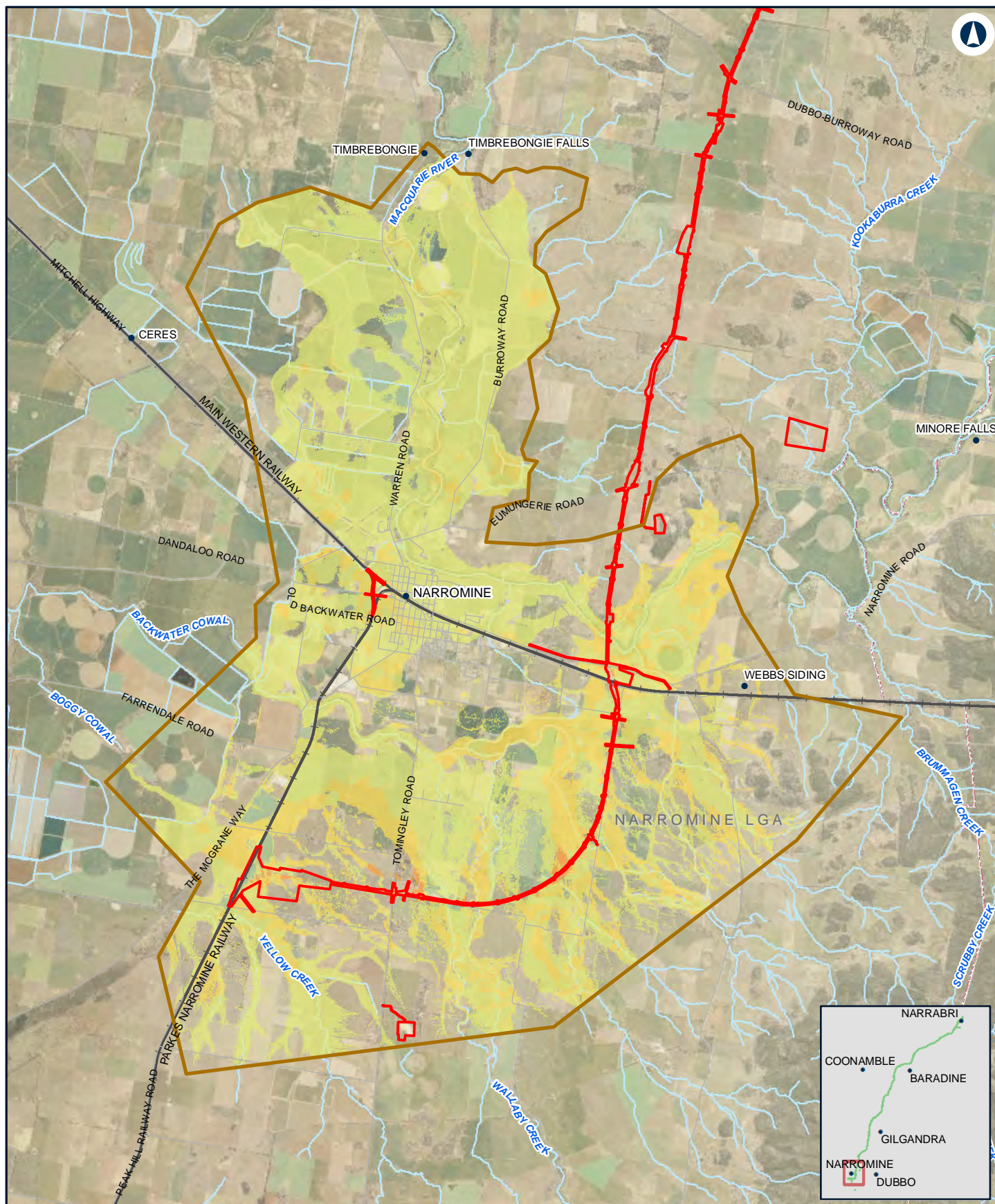
  0.1 m/s - 0.5 m/s increase

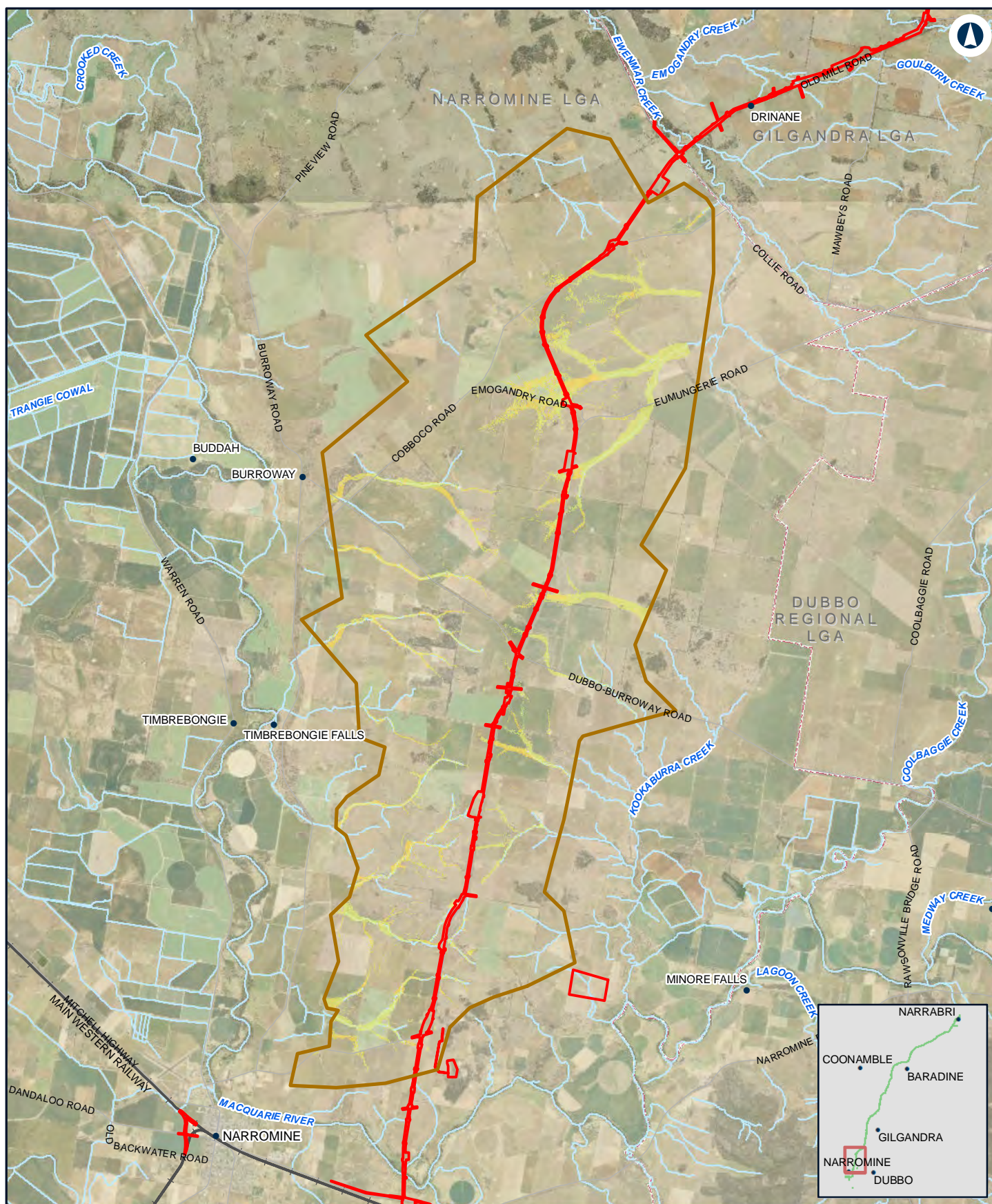
  0.5 m/s - 1 m/s increase

  > 1 m/s increase

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## NARROMINE TO NARRABRI

Change in velocity - 1% AEP - N2N14

Appendix G - Figure 2.4b

0 2 4 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:150,000

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

### LEGEND

  The proposal site

  Model boundary

### 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

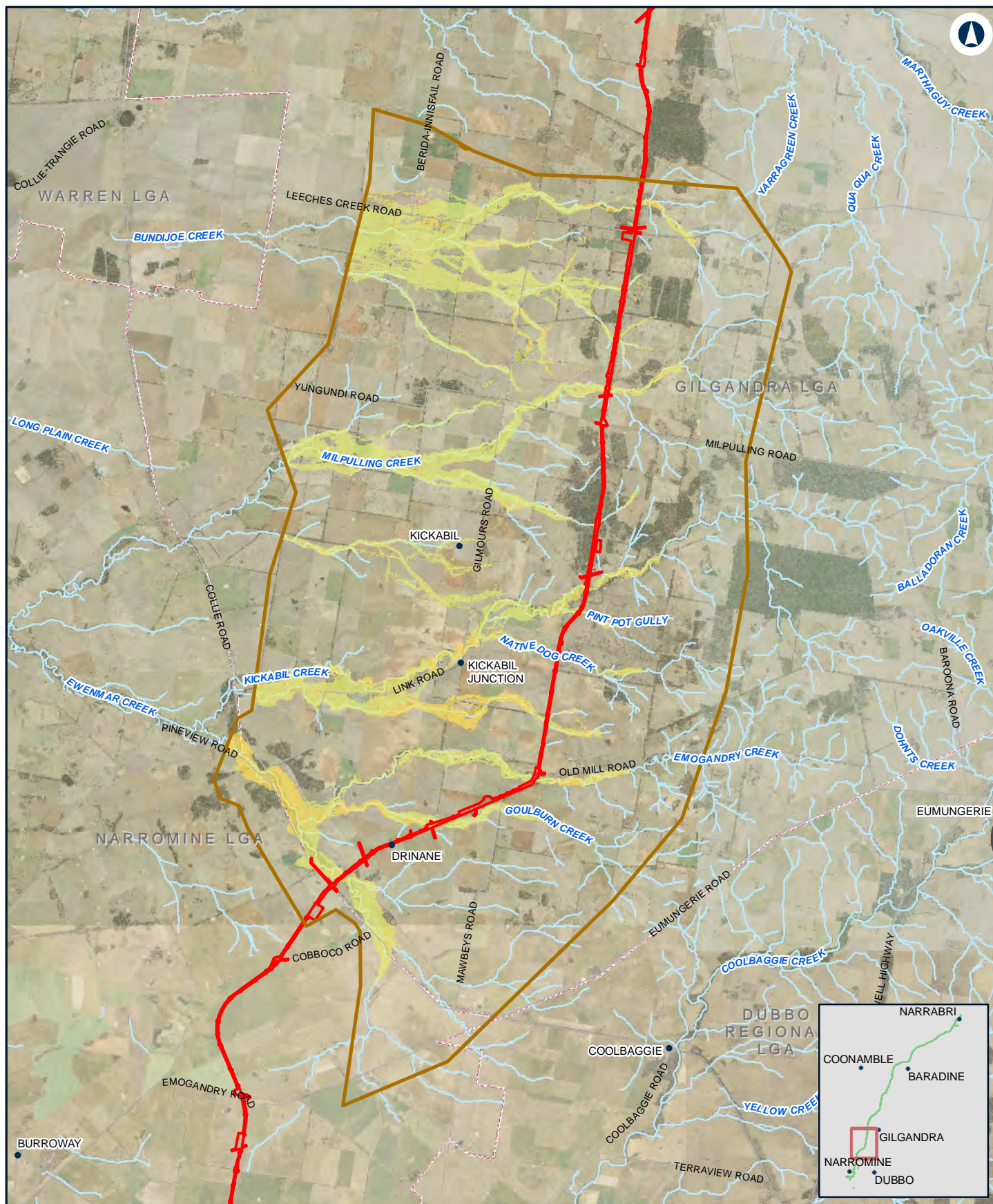
  0.1 m/s - 0.5 m/s increase

  0.5 m/s - 1 m/s increase

  > 1 m/s increase

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## NARROMINE TO NARRABRI

Change in velocity - 1% AEP - N2N13

Appendix G - Figure 2.4c

0 2.5 5 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:180,000

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

### LEGEND

The proposal site

Model boundary

### 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

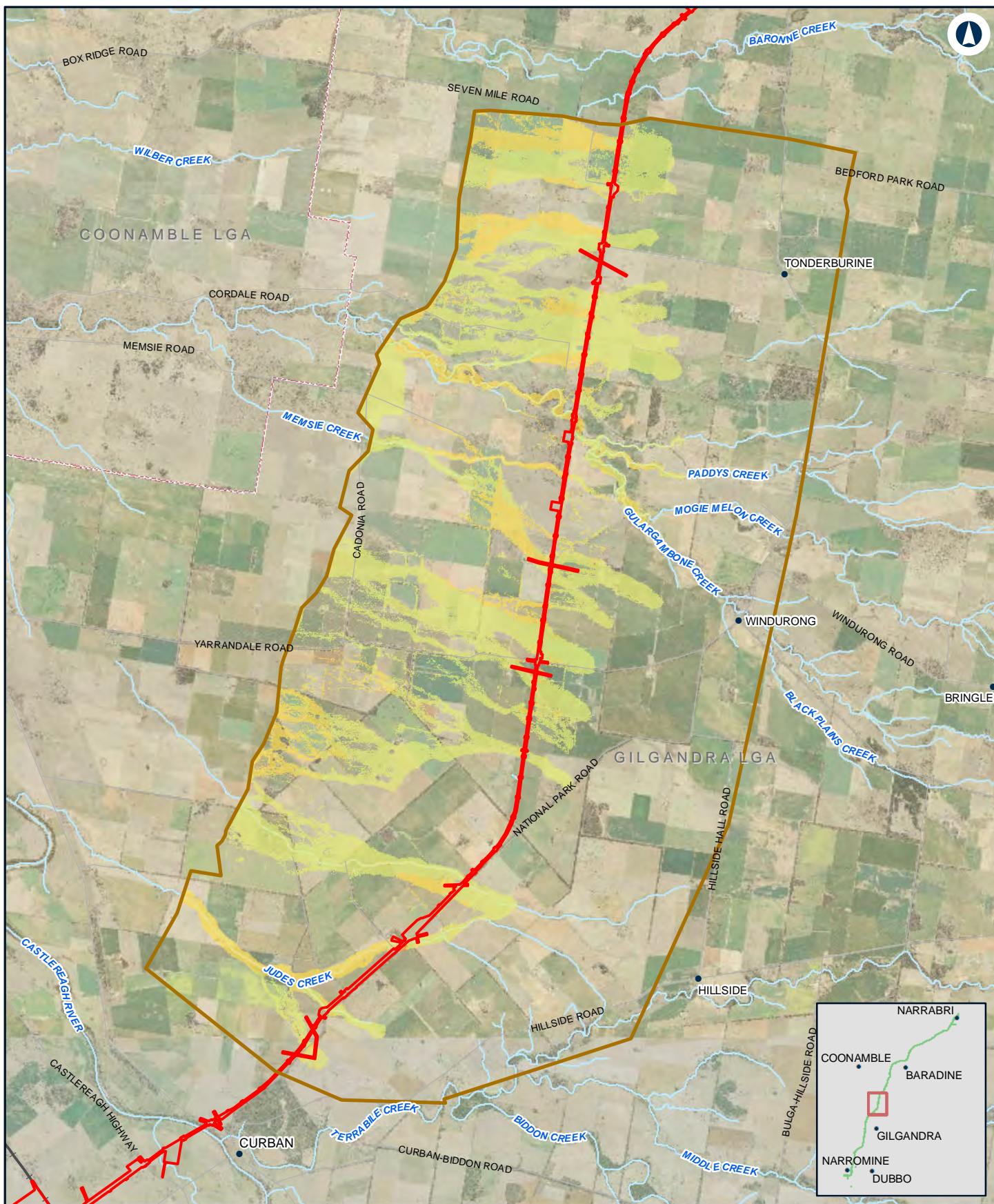
0.5 m/s - 1 m/s increase

> 1 m/s increase

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## Narromine to Narrabri

Change in velocity - 1% AEP - N2N10

Appendix G - Figure 2.4e

0 1.5 3 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020  
Author: JacobsGHD

Paper: A4  
Scale: 1:130,000

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

### LEGEND

  The proposal site

  Model boundary

### 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

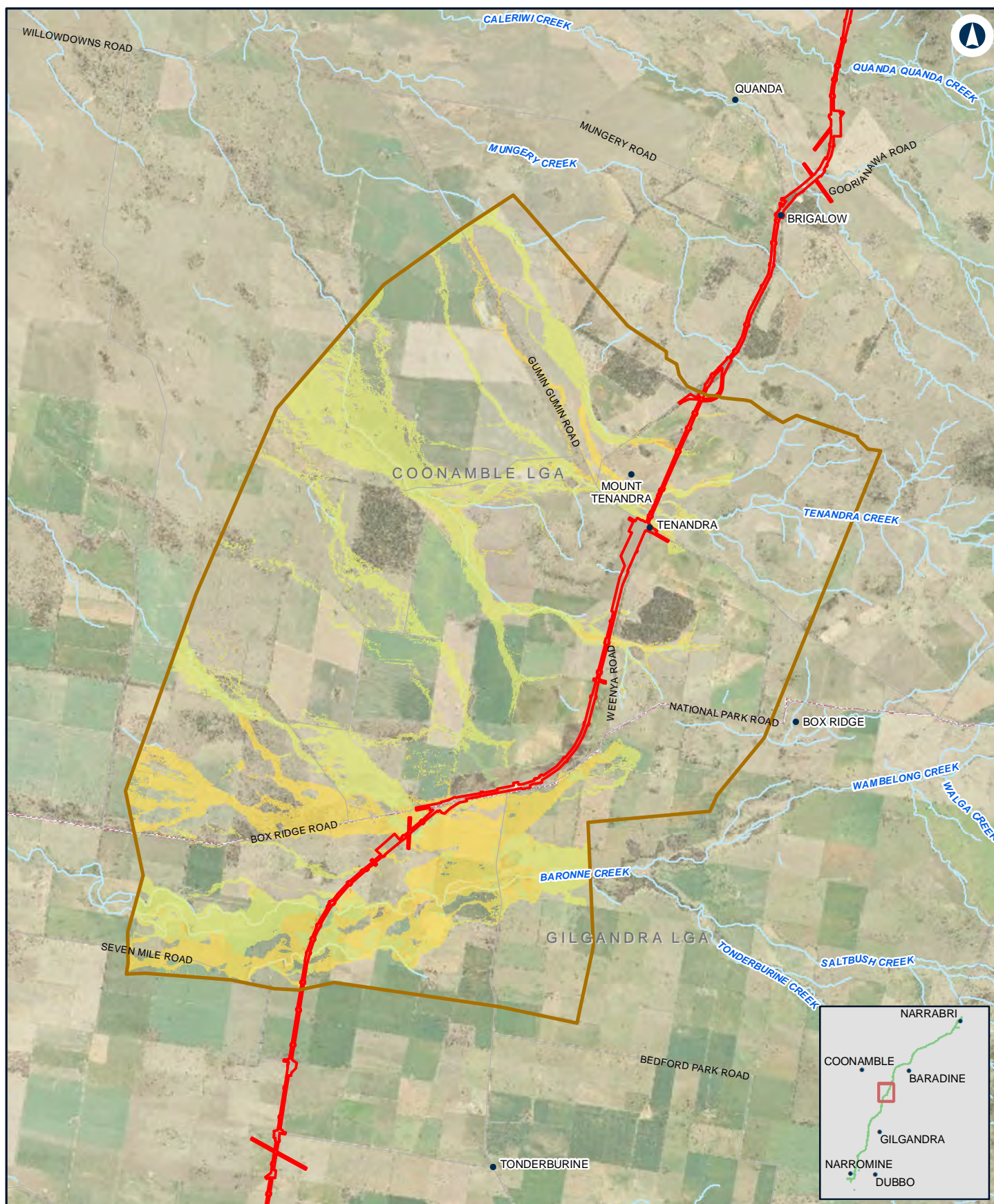
0.5 m/s - 1 m/s increase

> 1 m/s increase

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## NARROMINE TO NARRABRI

Change in velocity - 1% AEP - N2N9

Appendix G - Figure 2.4f

0 1.5 3 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020  
Author: JacobsGHD

Paper: A4  
Scale: 1:110,000

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

### LEGEND

- The proposal site
- Model boundary

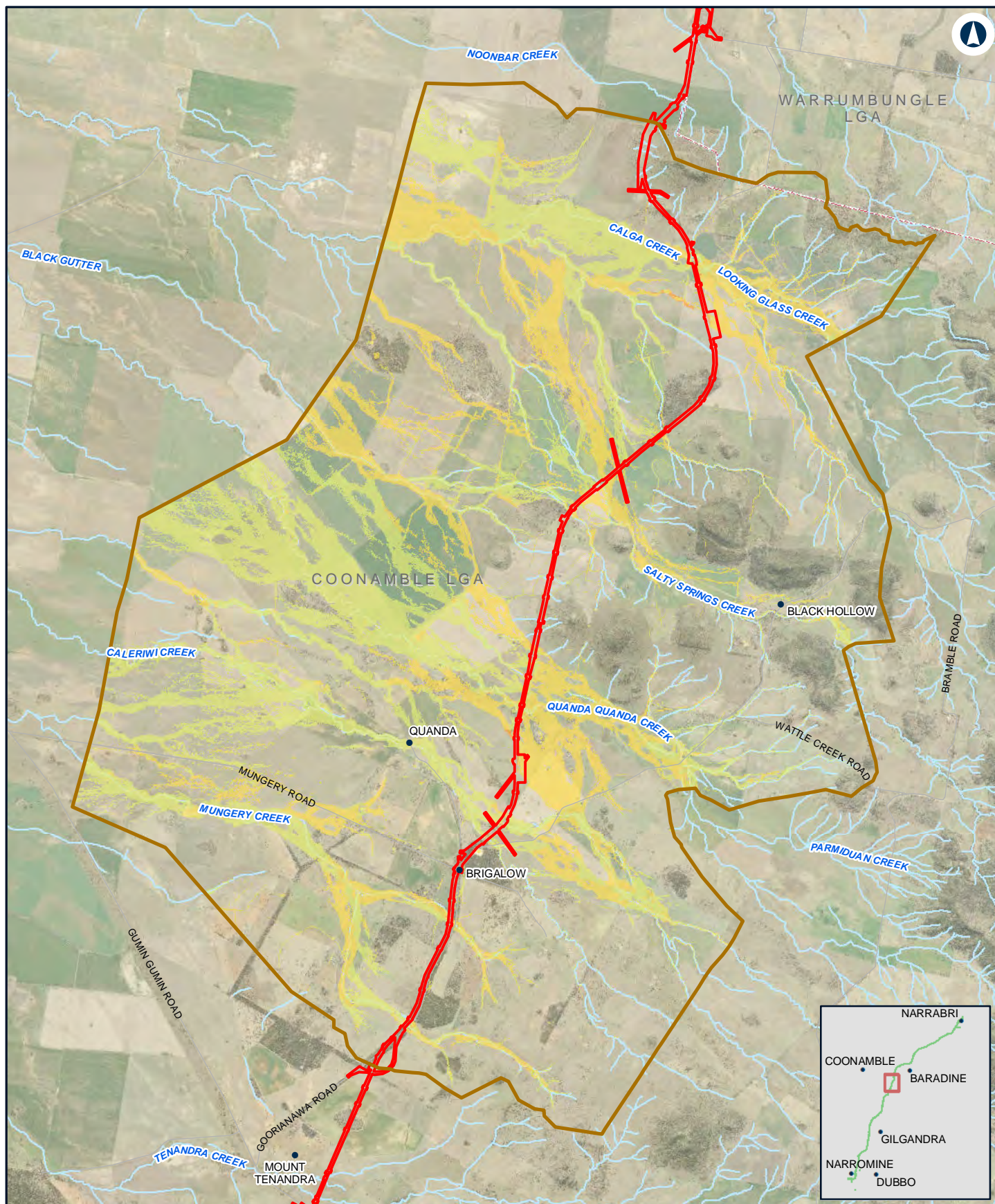
### Change in Flood Velocity

- > 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 2.4g

0 1 2 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020  
Author: JacobsGHD

Paper: A4  
Scale: 1:100,000

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

### LEGEND

  The proposal site

  Model boundary

### 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

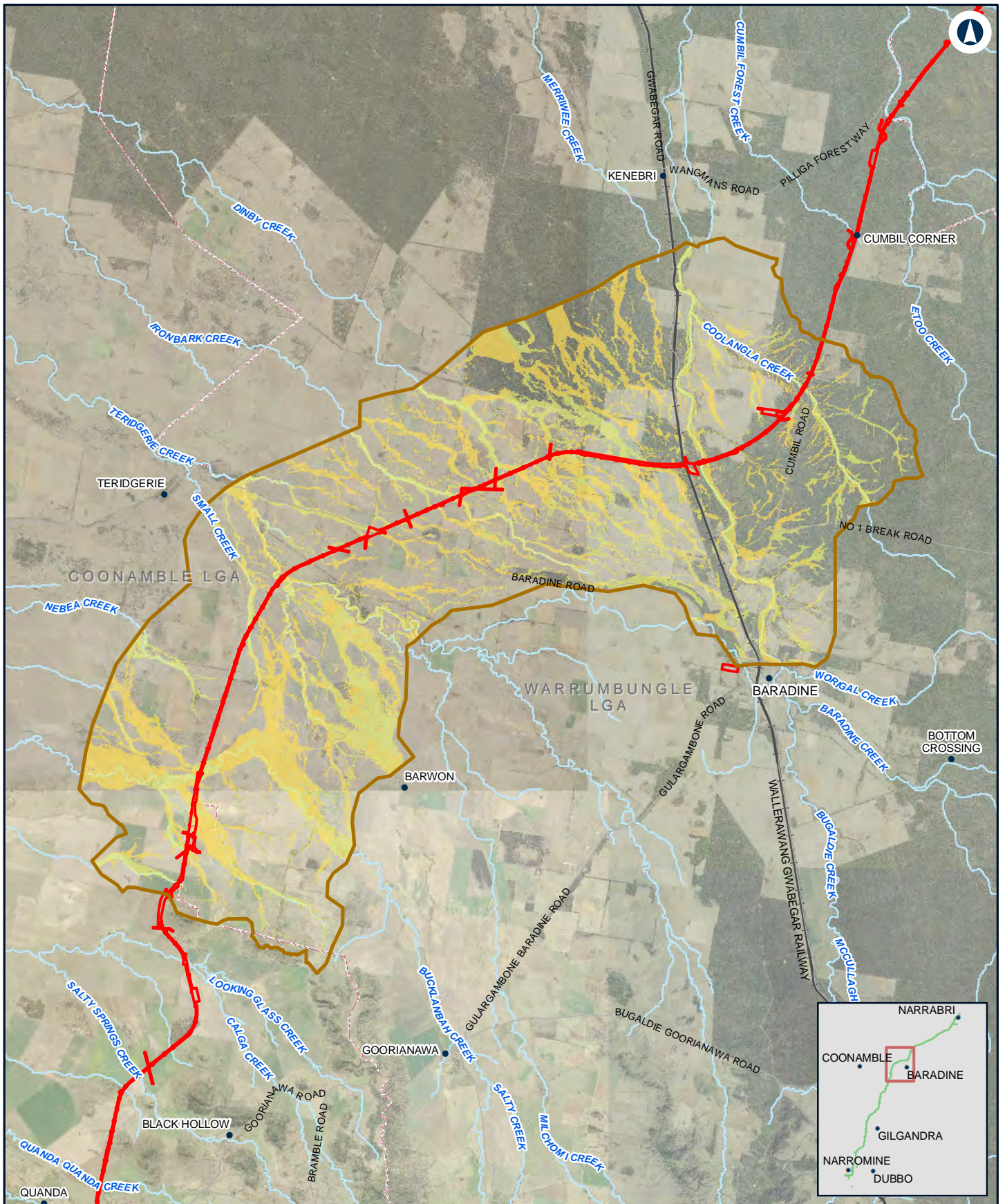
0.1 m/s - 0.5 m/s increase

0.5 m/s - 1 m/s increase

> 1 m/s increase

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## NARROMINE TO NARRABRI

Change in velocity - 1% AEP - N2N7

Appendix G - Figure 2.4h

0 2.5 5  
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:200,000

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

### LEGEND

The proposal site

Model boundary

### 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

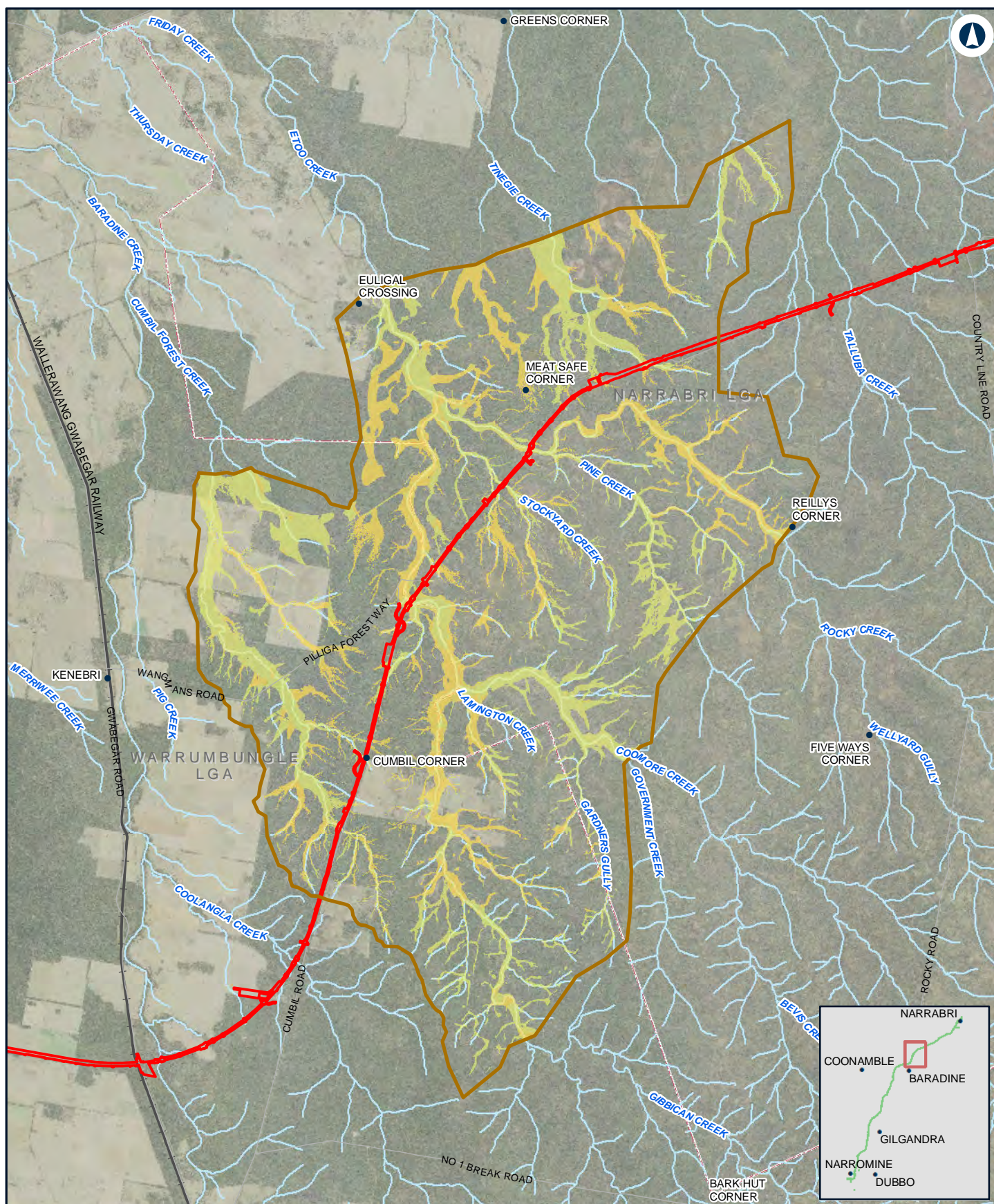
0.1 m/s - 0.5 m/s increase

0.5 m/s - 1 m/s increase

> 1 m/s increase

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## NARROMINE TO NARRABRI

Change in velocity - 1% AEP - N2N6

Appendix G - Figure 2.4i

0 2 4 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:150,000

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

### LEGEND

  The proposal site

  Model boundary

### 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

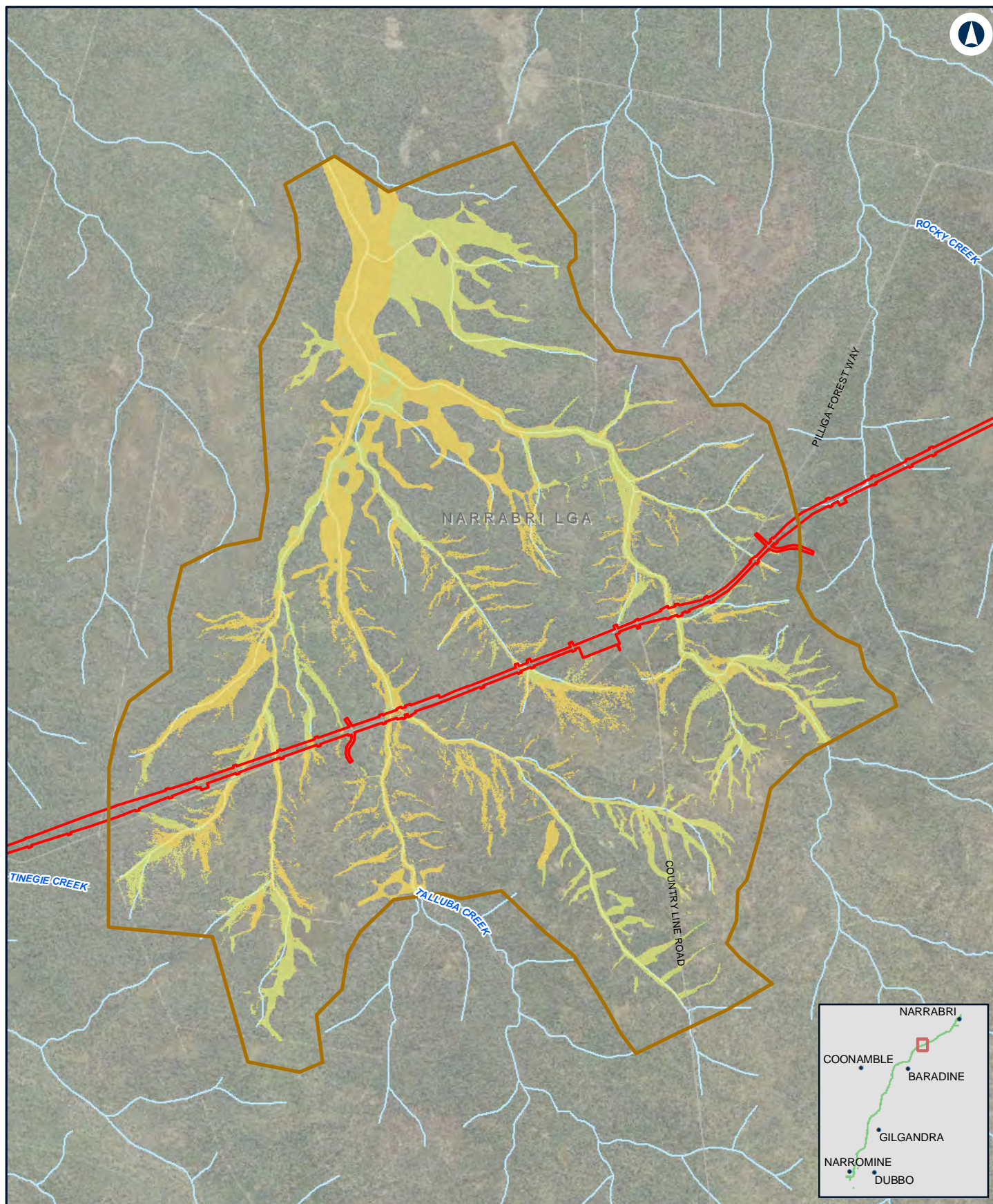
  0.1 m/s - 0.5 m/s increase

  0.5 m/s - 1 m/s increase

  > 1 m/s increase

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## NARROMINE TO NARRABRI

Change in velocity - 1% AEP - N2N5

Appendix G - Figure 2.4j

0 1 2 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020  
Author: JacobsGHD

Paper: A4  
Scale: 1:70,000

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

### LEGEND

  The proposal site

  Model boundary

### 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

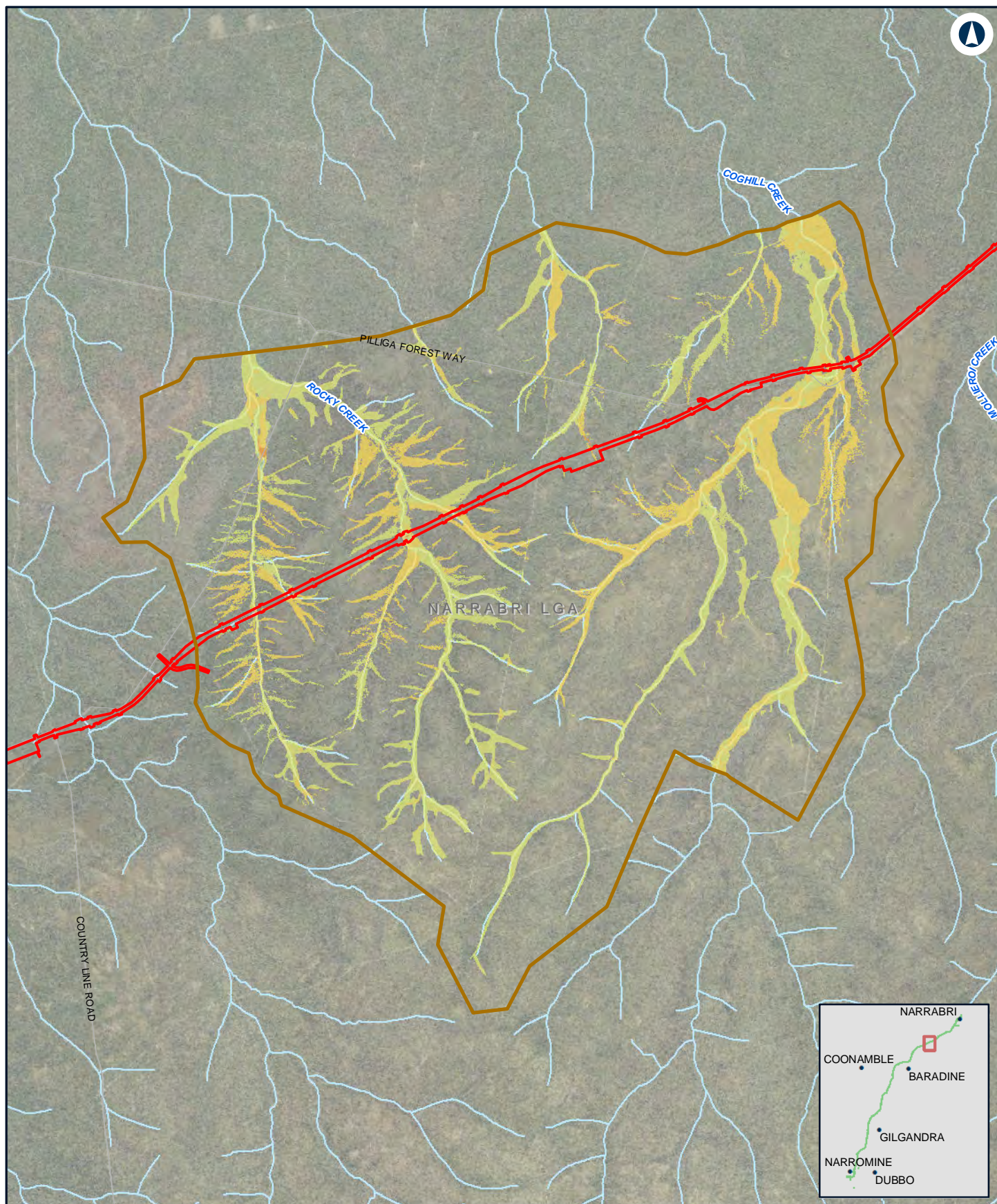
0.1 m/s - 0.5 m/s increase

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 2.4k

0 1 2 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020  
Author: JacobsGHD

Paper: A4  
Scale: 1:80,000

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

### LEGEND

  The proposal site

  Model boundary

### 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

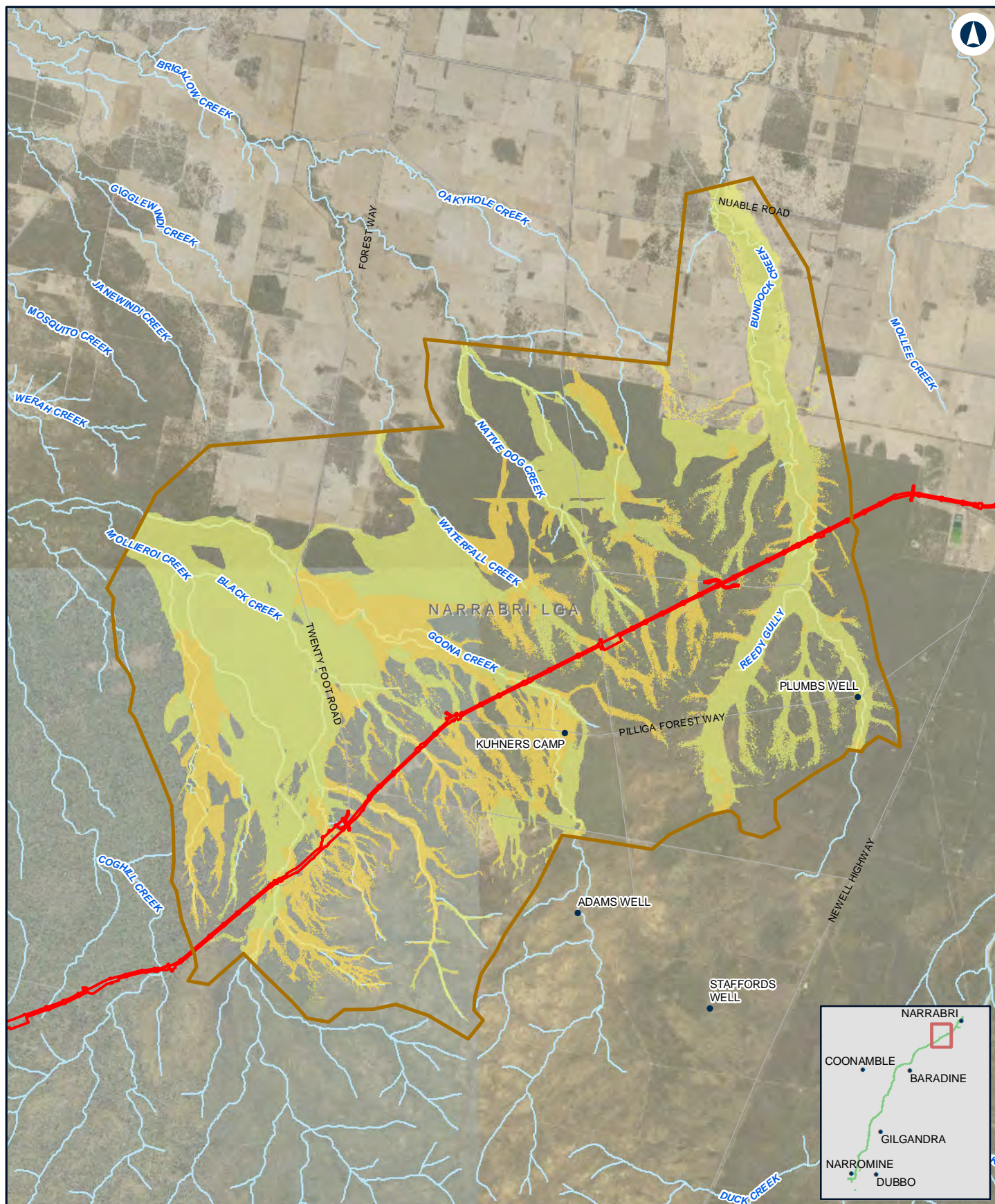
0.1 m/s - 0.5 m/s increase

0.5 m/s - 1 m/s increase

> 1 m/s increase

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## NARROMINE TO NARRABRI

Change in velocity - 1% AEP - N2N23

Appendix G - Figure 2.4I

0 1.5 3 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020  
Author: JacobsGHD

Paper: A4  
Scale: 1:140,000

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

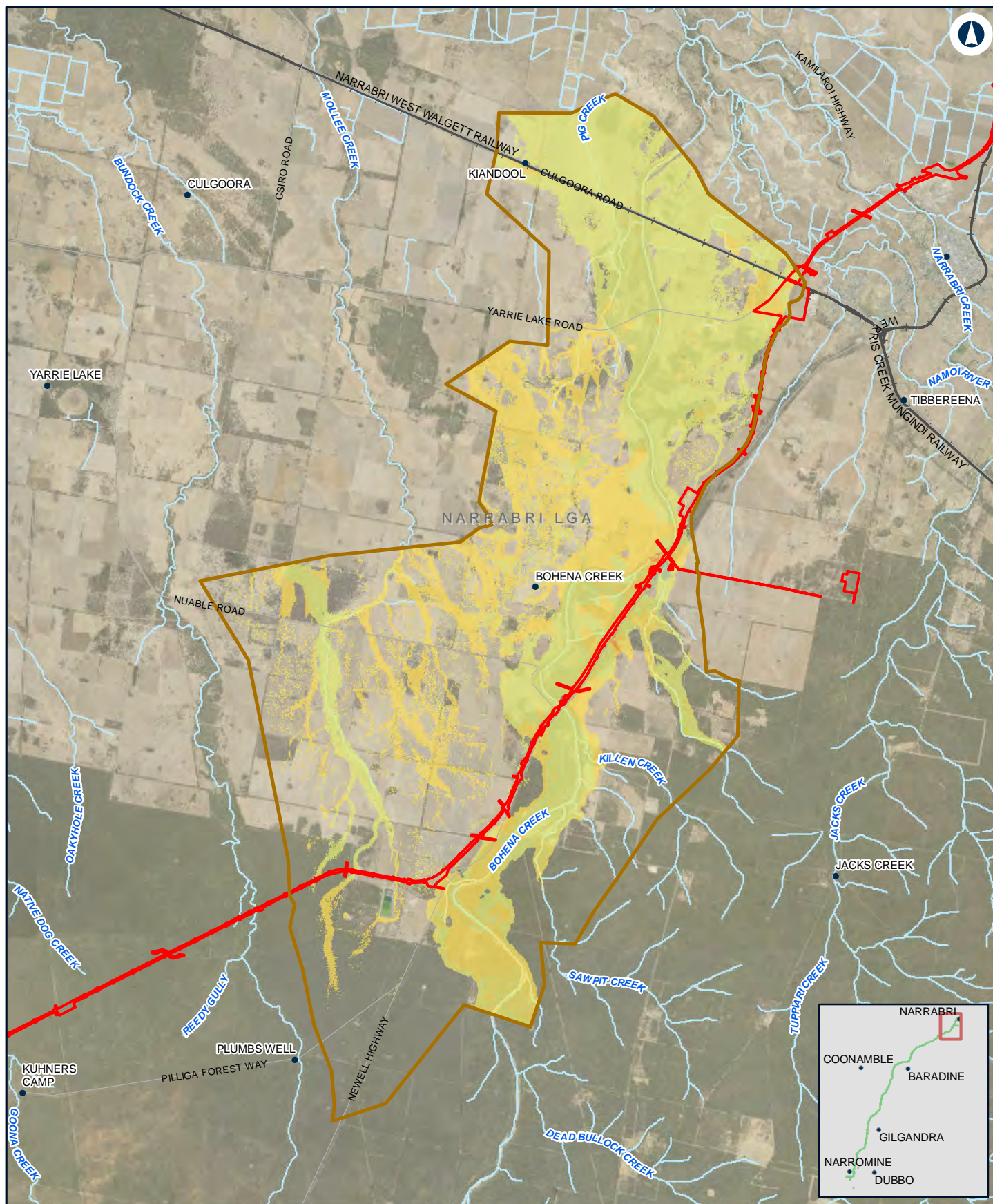
0.1 m/s - 0.5 m/s increase

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: 27/10/2020  
Author: JacobsGHD

Paper: A4  
Scale: 1:150,000

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

#### LEGEND

  The proposal site

  Model boundary

#### 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

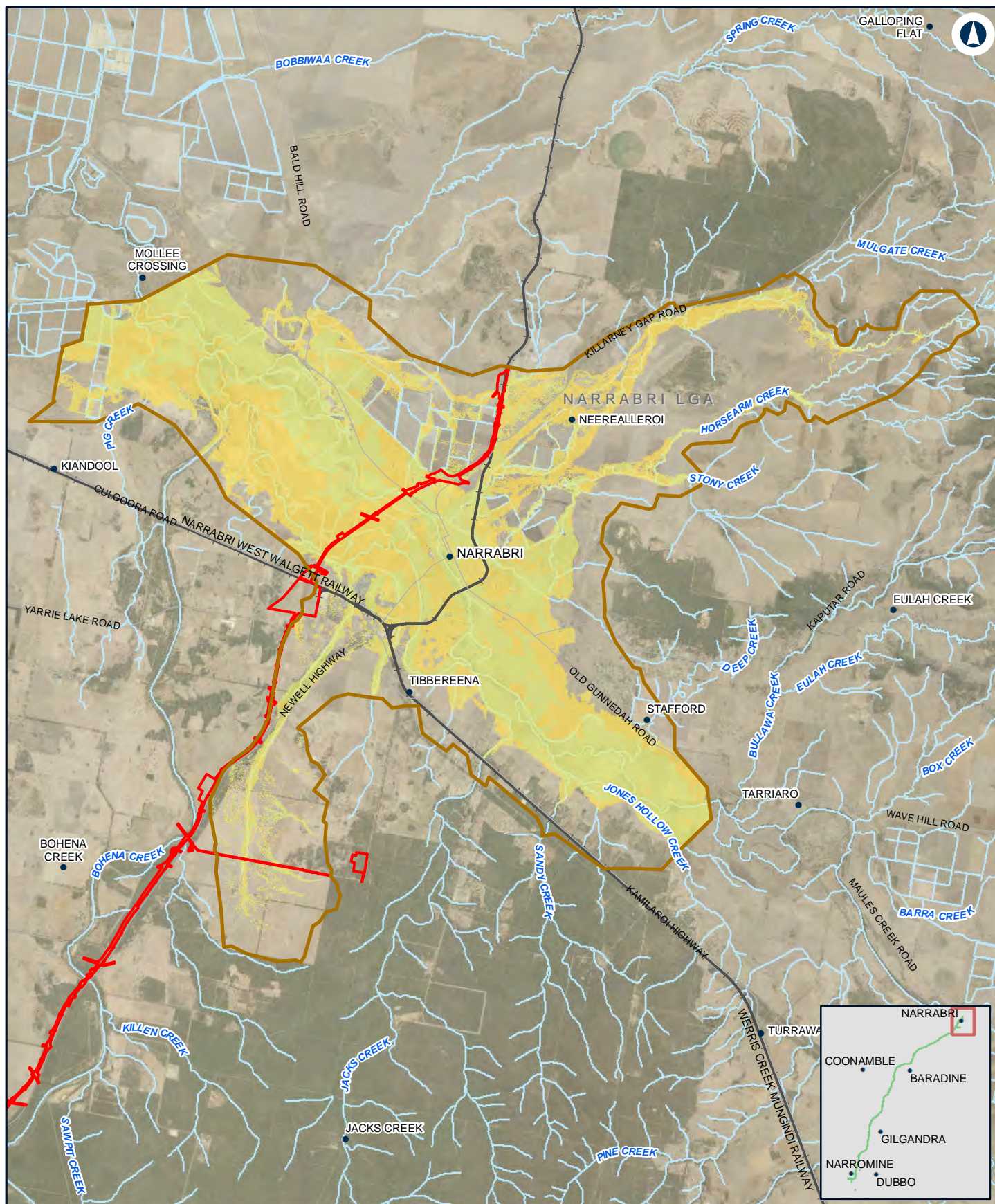
  0.1 m/s - 0.5 m/s increase

  0.5 m/s - 1 m/s increase

  > 1 m/s increase

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## Narromine to Narrabri

Change in velocity - 1% AEP - Narrabri

Appendix G - Figure 2.4n

0 2 4  
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:160,000

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

### LEGEND

  The proposal site

  Model boundary

### 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

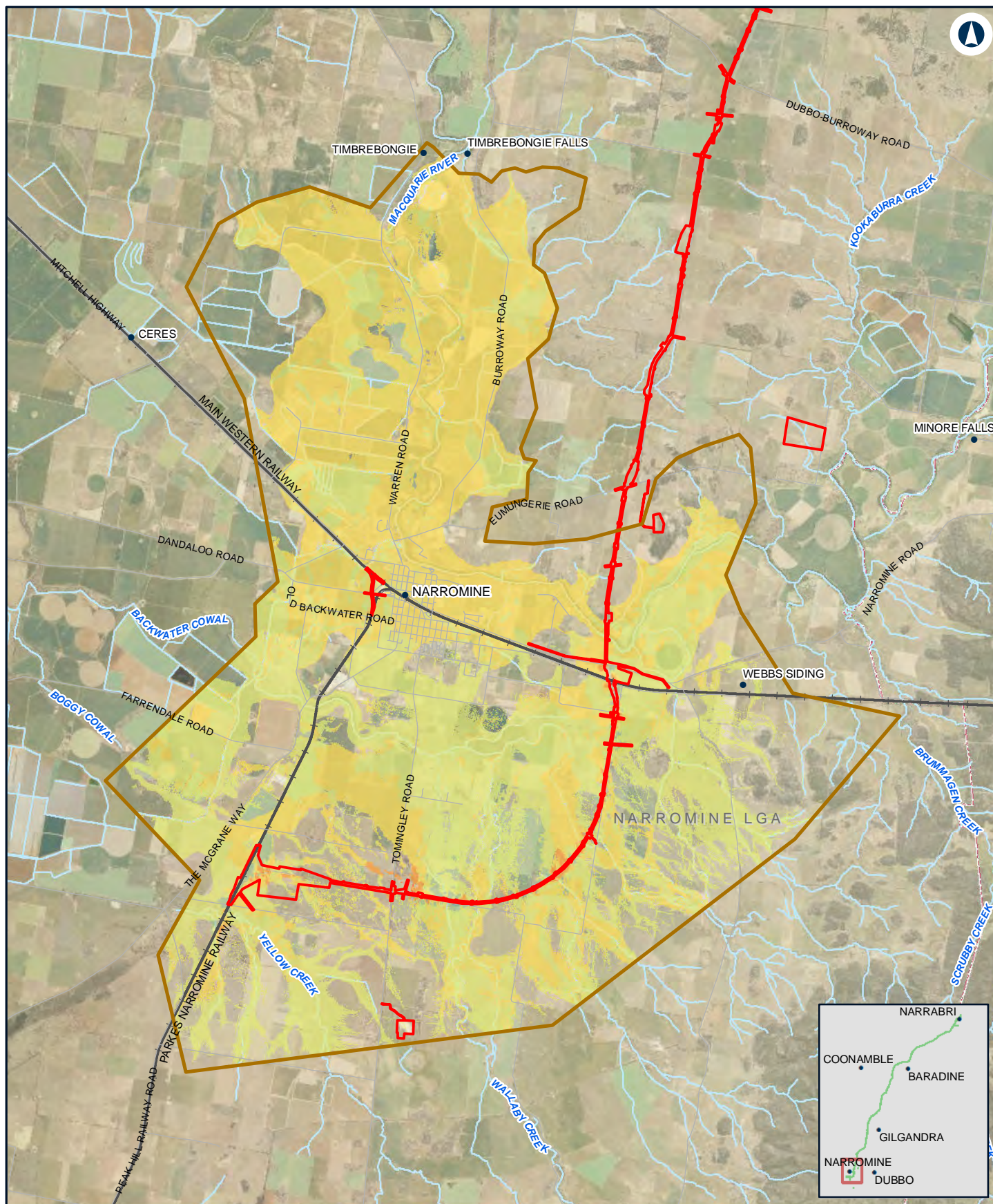
  0.1 m/s - 0.5 m/s increase

  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: 28/10/2020  
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

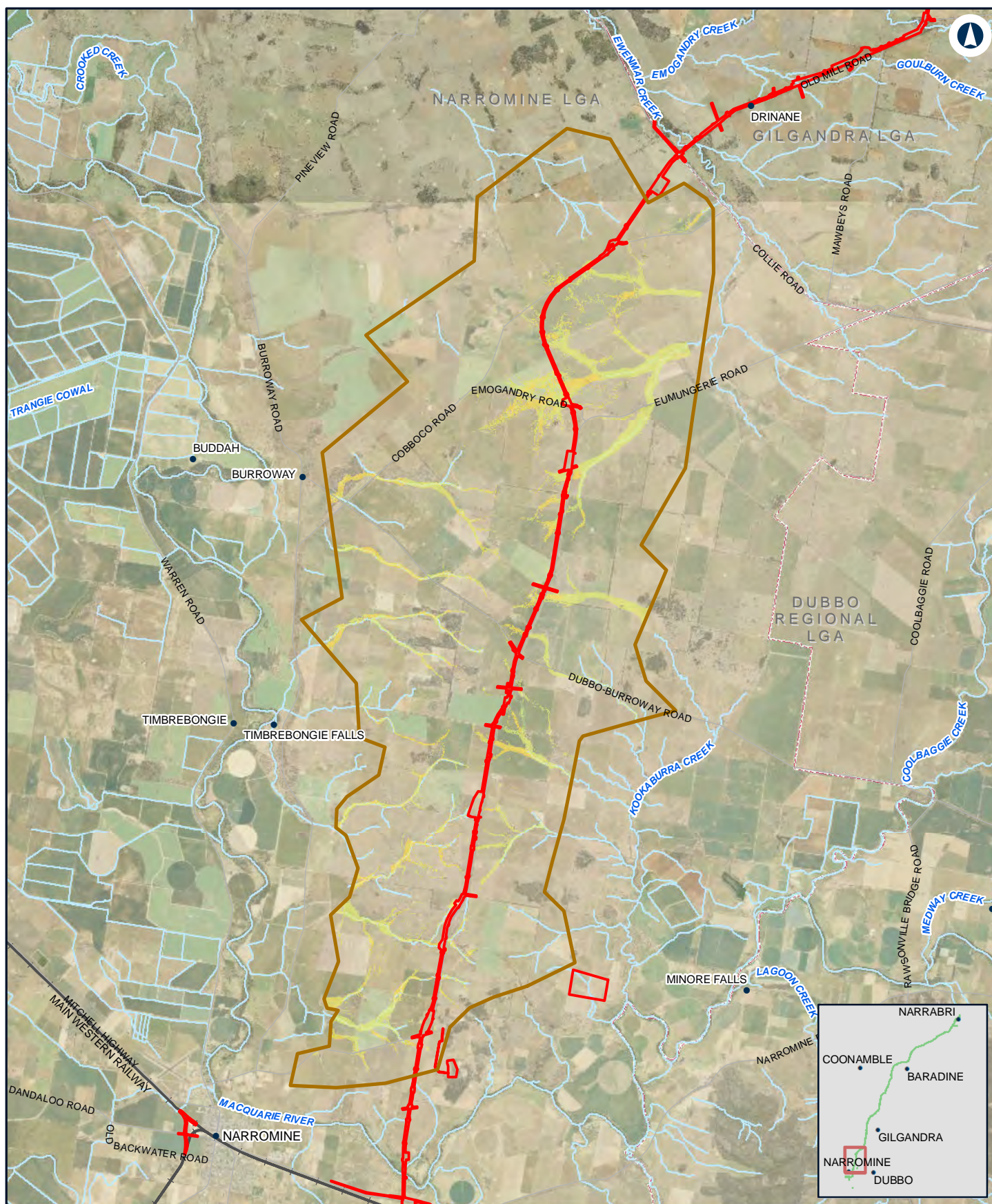
  0.1 m/s - 0.5 m/s increase

  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: 28/10/2020  
Author: JacobsGHD

Paper: A4  
Scale: 1:150,000

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

### LEGEND

  The proposal site

  Model boundary

### 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

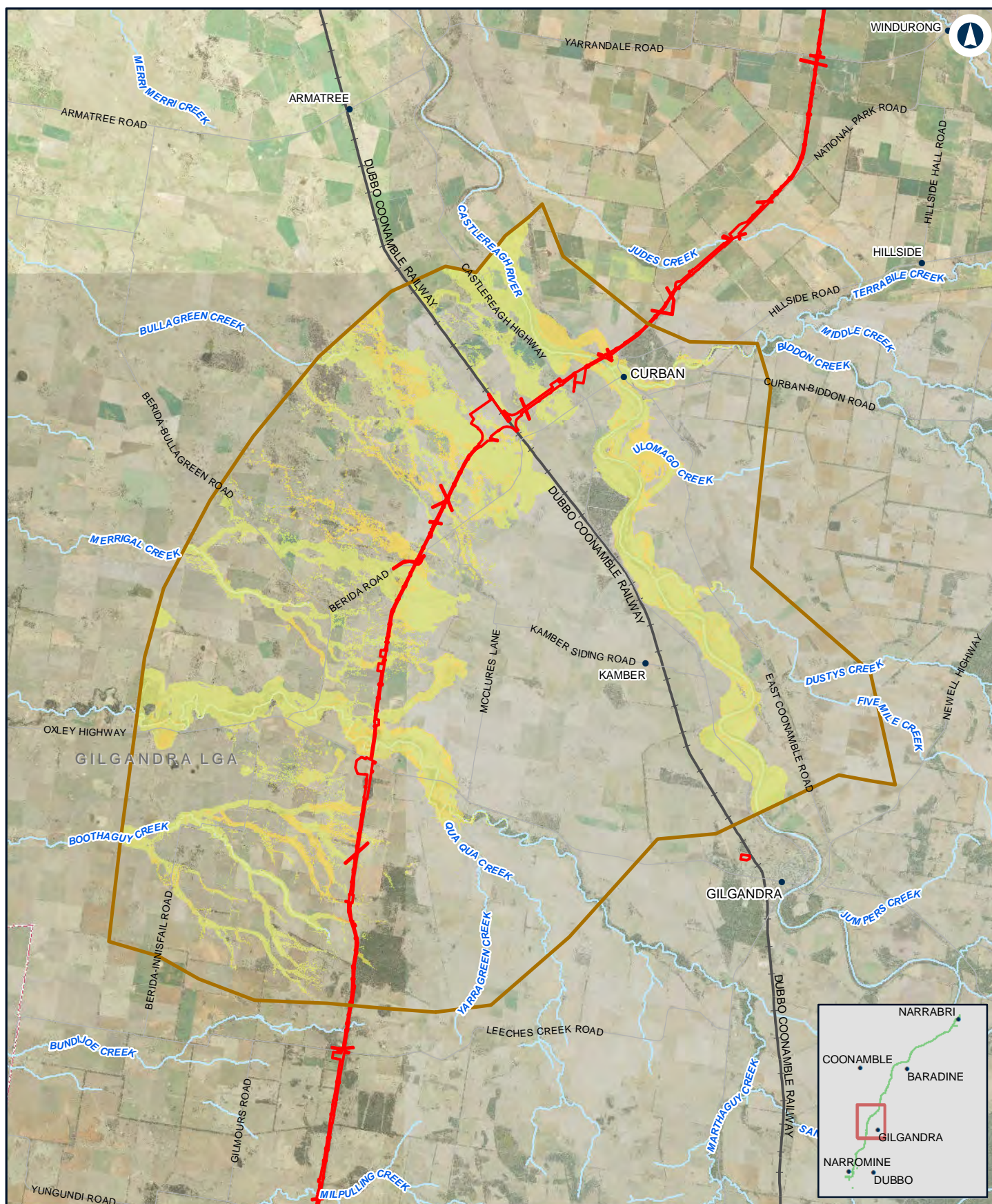
  0.5 m/s - 1 m/s increase

  > 1 m/s increase

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## NARROMINE TO NARRABRI

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

Appendix G - Figure 2.5d

0 2.5 5  
Km

Coordinate System: GDA 1994 MGA Zone 55

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### 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

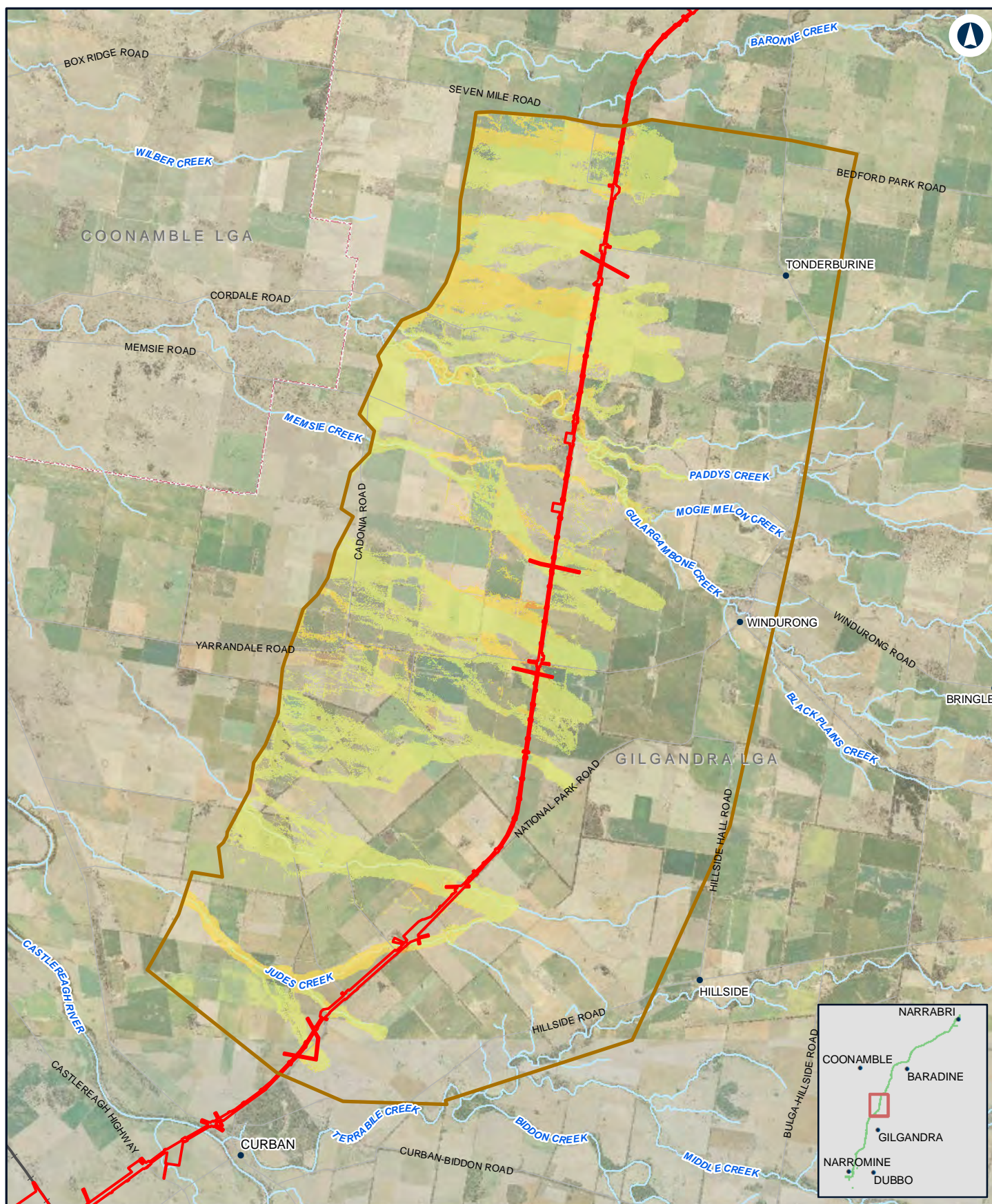
0.1 m/s - 0.5 m/s increase

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 - N2N10

Appendix G - Figure 2.5e

0 1.5 3  
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 28/10/2020  
Author: JacobsGHD

Paper: A4  
Scale: 1:130,000

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

### LEGEND

- The proposal site
- Model boundary

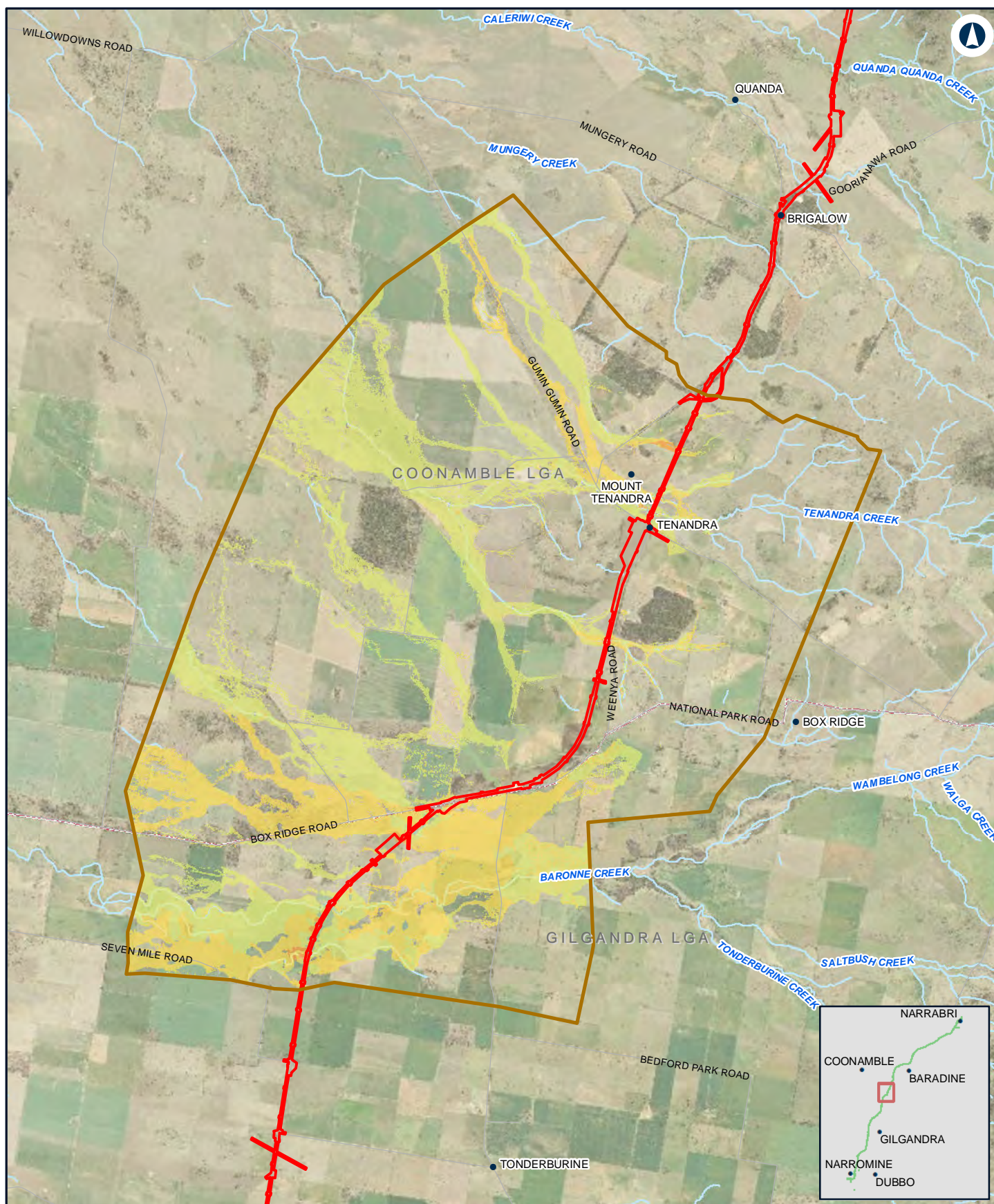
### Change in Flood Velocity

- > 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: 28/10/2020  
Author: JacobsGHD

Paper: A4  
Scale: 1:110,000

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

### LEGEND

- The proposal site
- Model boundary

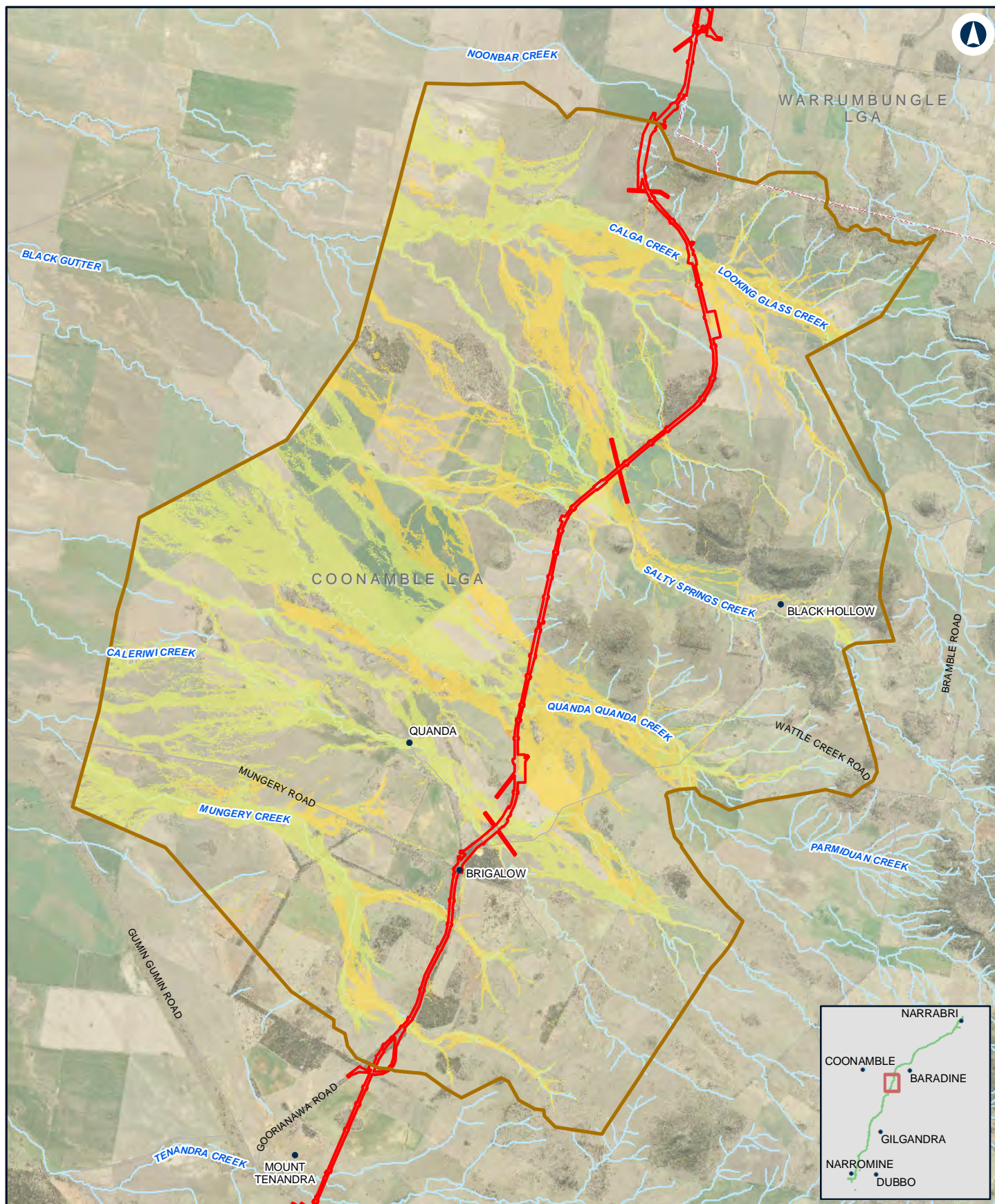
### Change in Flood Velocity

- > 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: 28/10/2020  
Author: JacobsGHD

Paper: A4  
Scale: 1:100,000

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

### LEGEND

  The proposal site

  Model boundary

#### 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

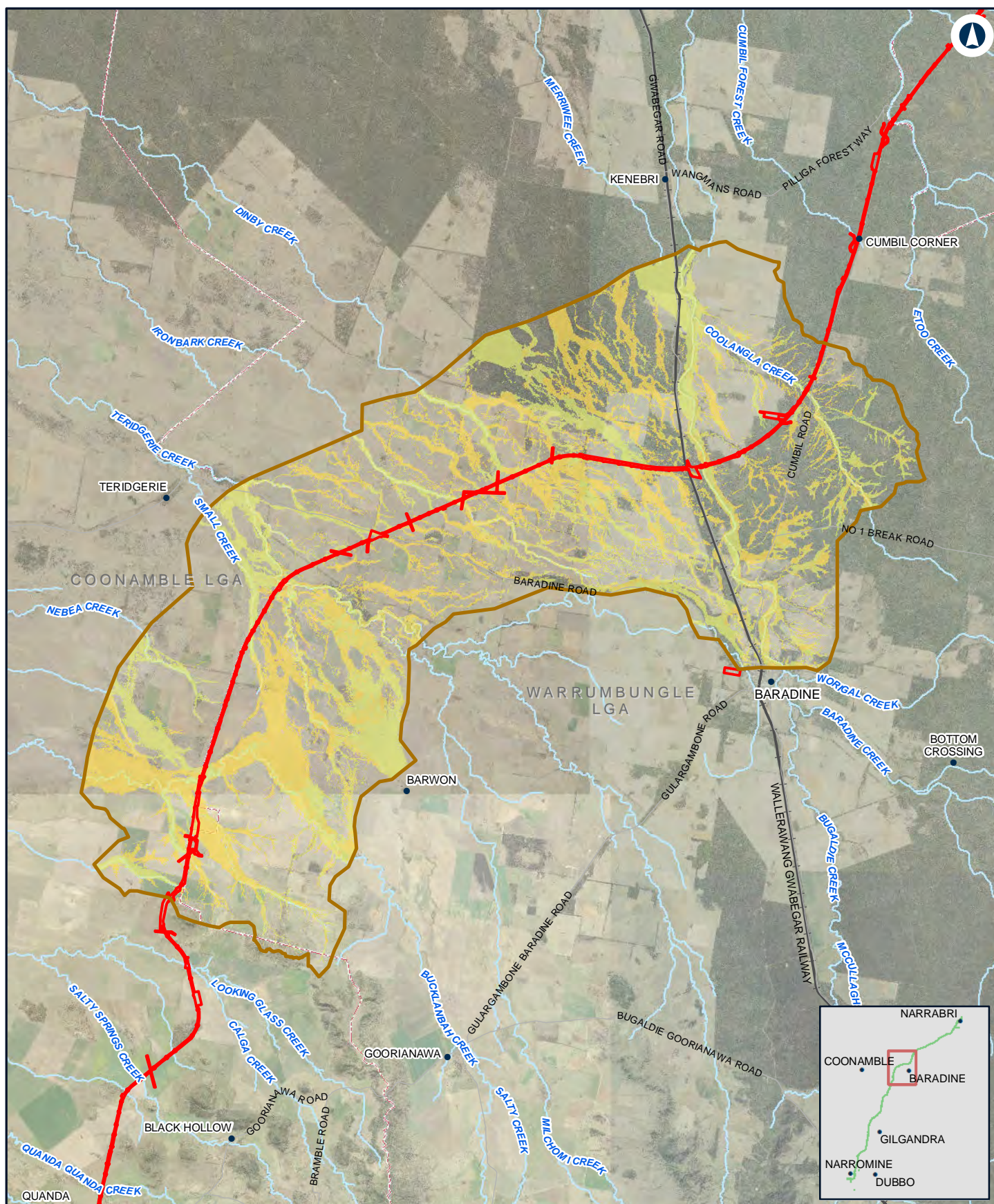
  0.5 m/s - 1 m/s increase

  > 1 m/s increase

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## NARROMINE TO NARRABRI

Change in velocity - 1% AEP with climate change - N2N7

Appendix G - Figure 2.5h

0 2.5 5  
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 28/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:200,000

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

### LEGEND

  The proposal site

  Model boundary

### 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

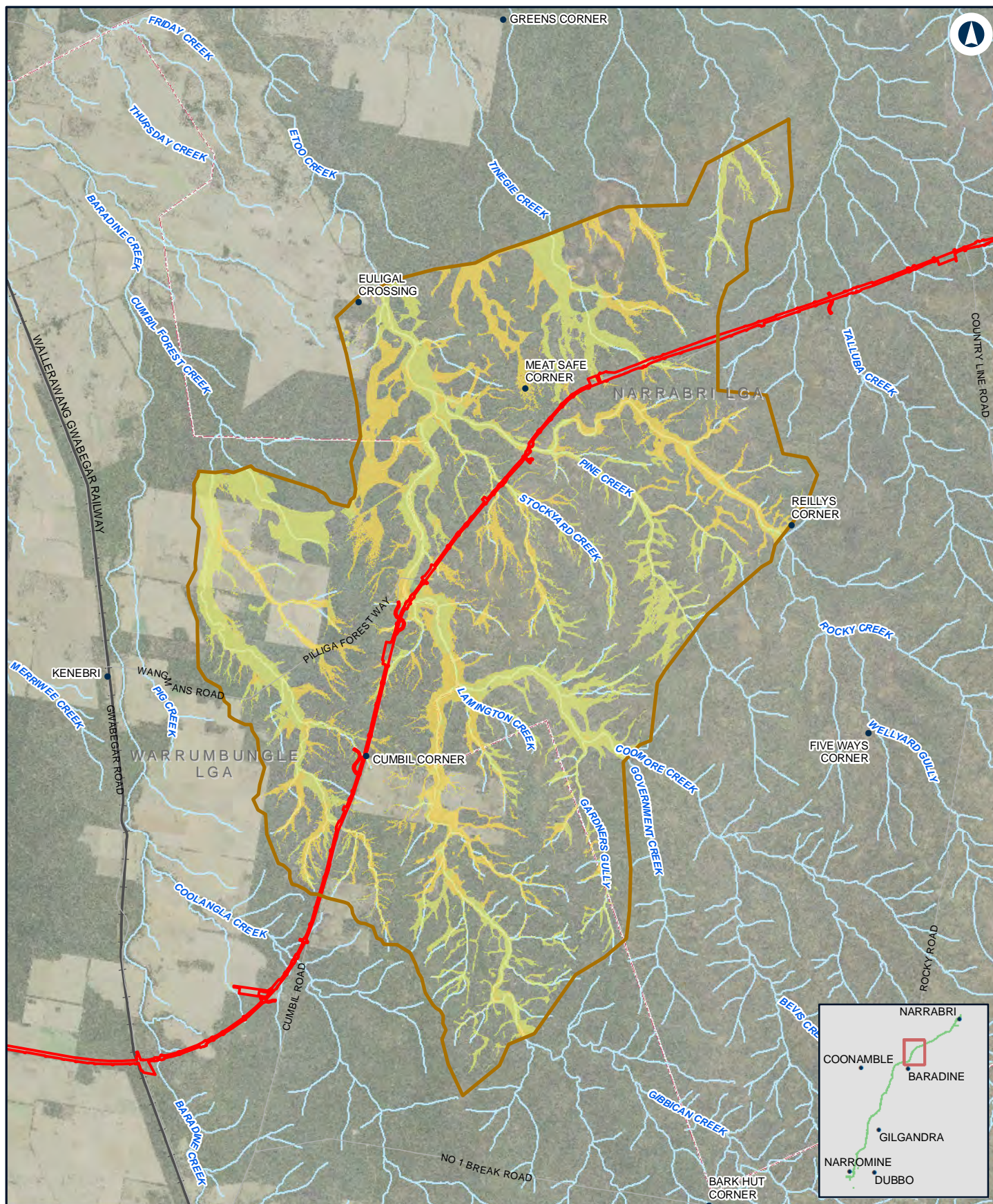
  0.1 m/s - 0.5 m/s increase

  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: 28/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:150,000

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

### LEGEND

  The proposal site

  Model boundary

### 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

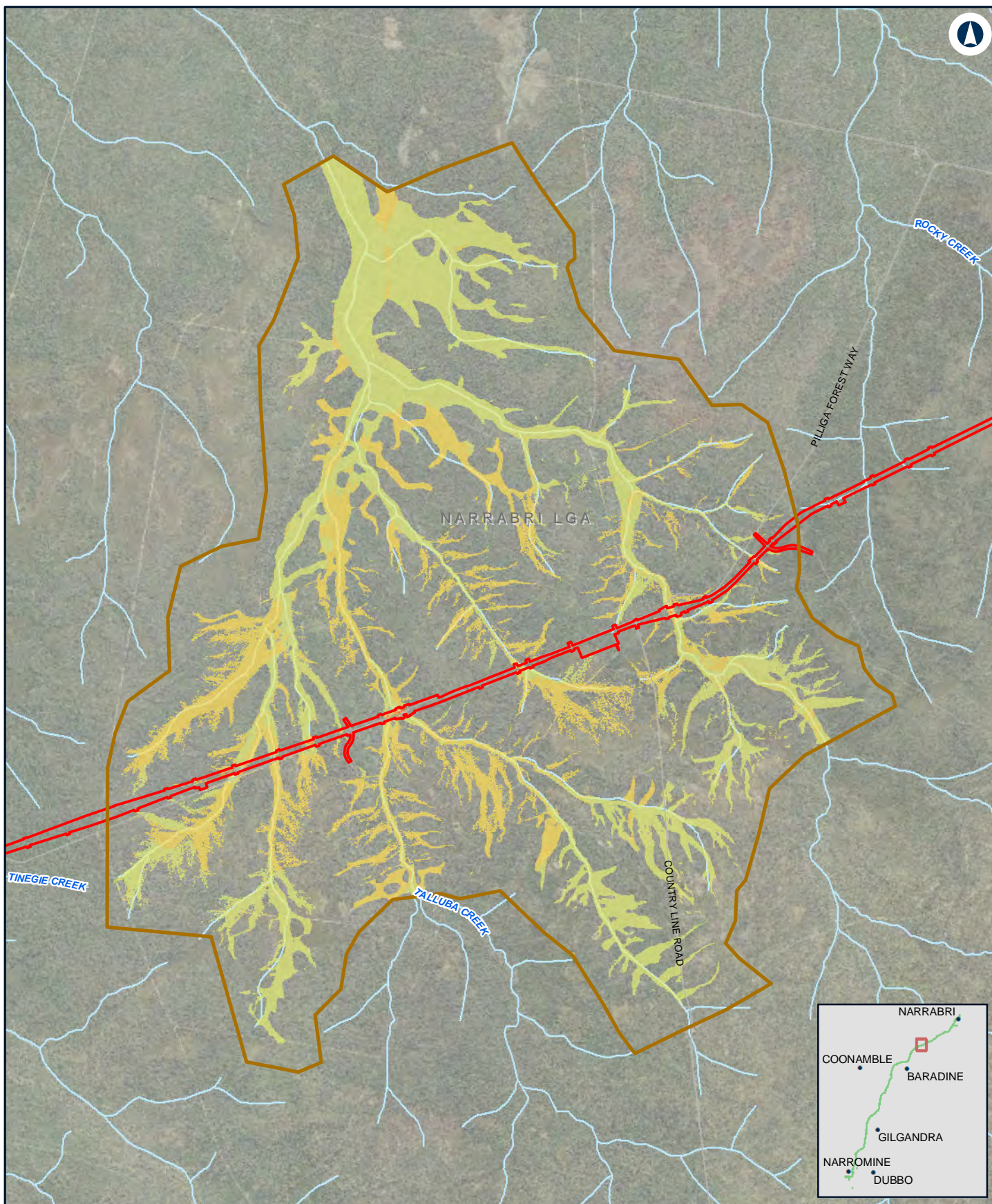
  0.1 m/s - 0.5 m/s increase

  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: 28/10/2020  
Author: JacobsGHD

Paper: A4  
Scale: 1:70,000

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

### LEGEND

  The proposal site

  Model boundary

### 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

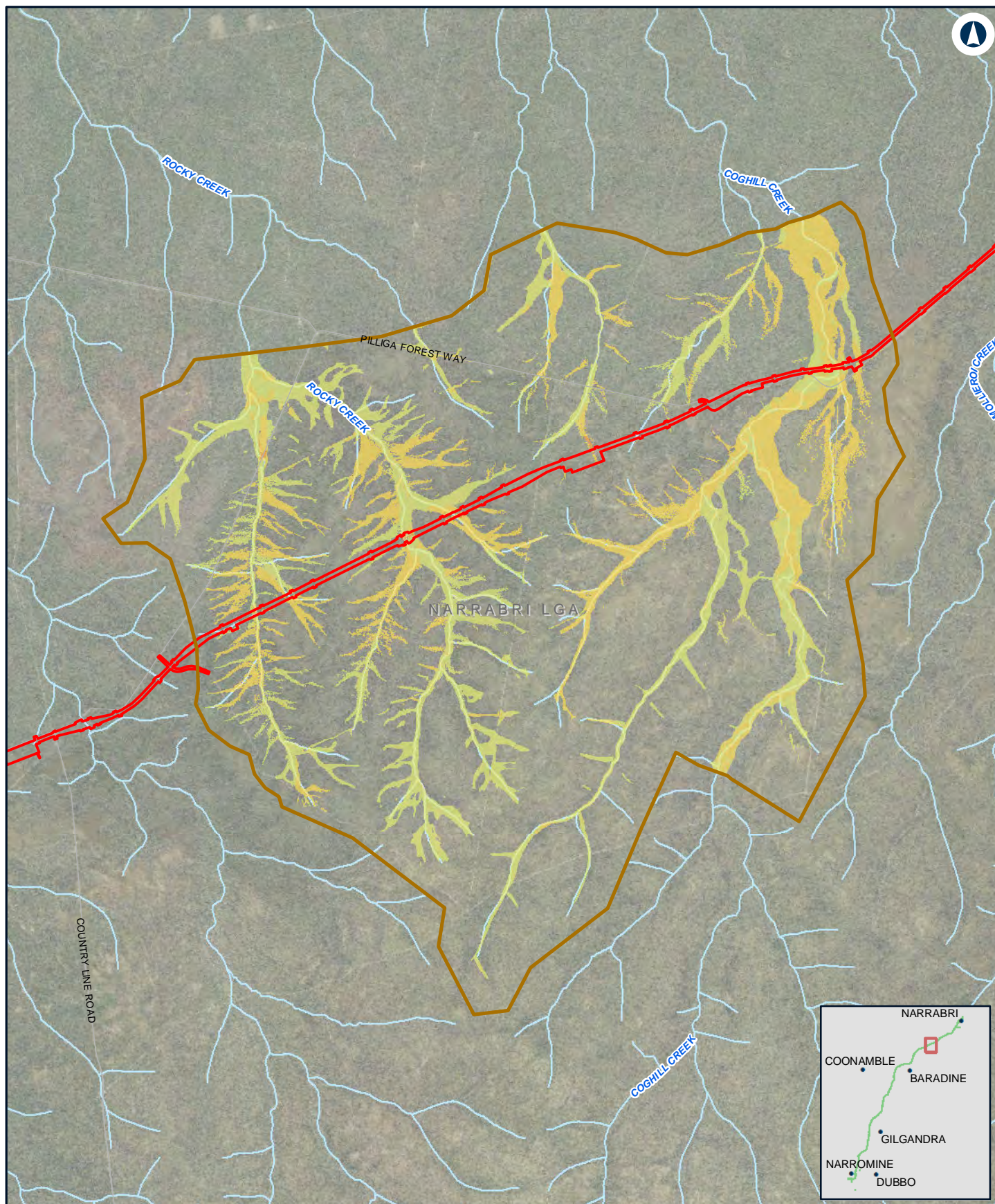
  0.5 m/s - 1 m/s increase

  > 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: 28/10/2020  
Author: JacobsGHD

Paper: A4  
Scale: 1:80,000

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

### LEGEND

  The proposal site

  Model boundary

### 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

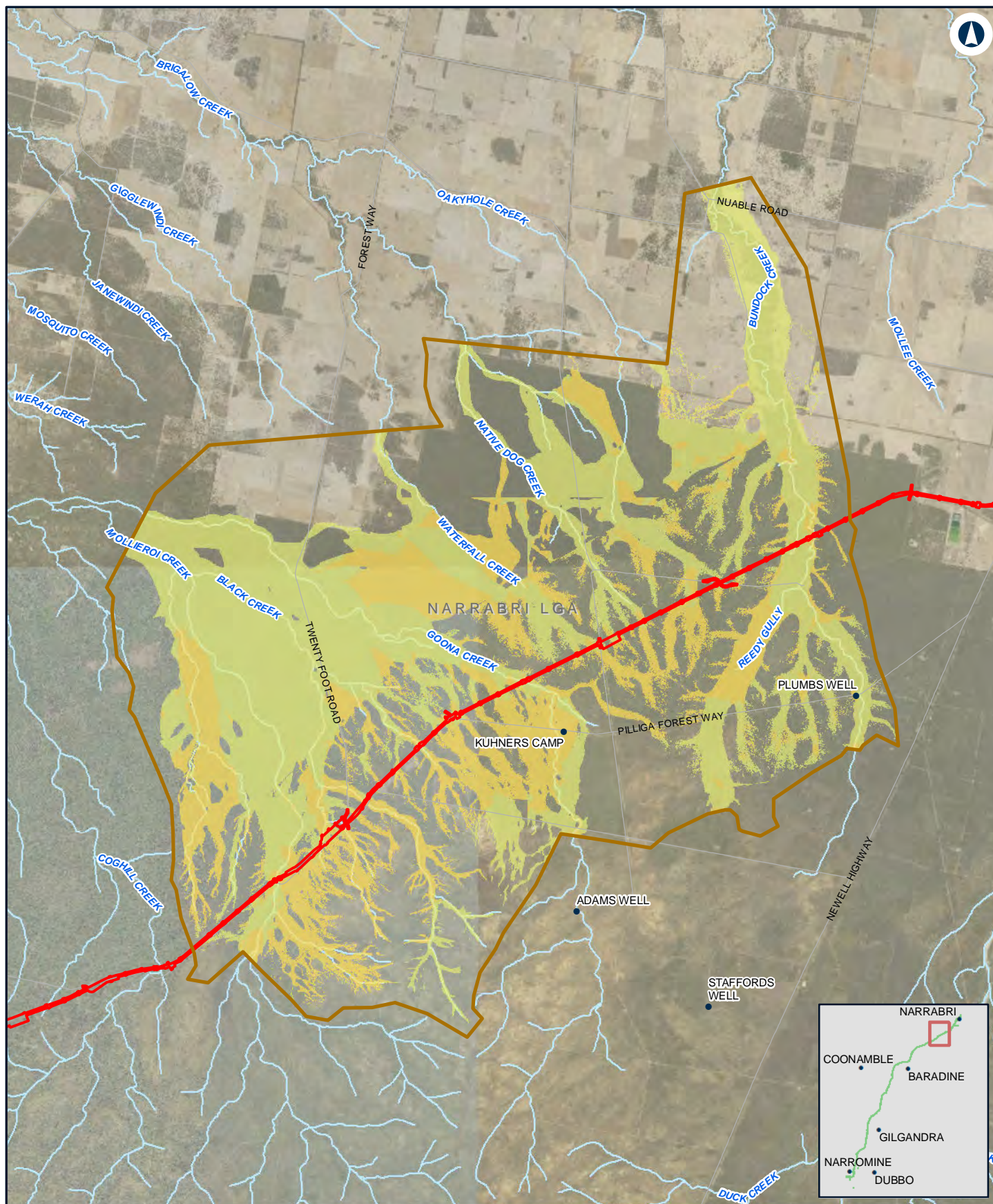
  0.5 m/s - 1 m/s increase

  > 1 m/s increase

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## NARROMINE TO NARRABRI

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

Appendix G - Figure 2.5I

0 1.5 3 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 28/10/2020  
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

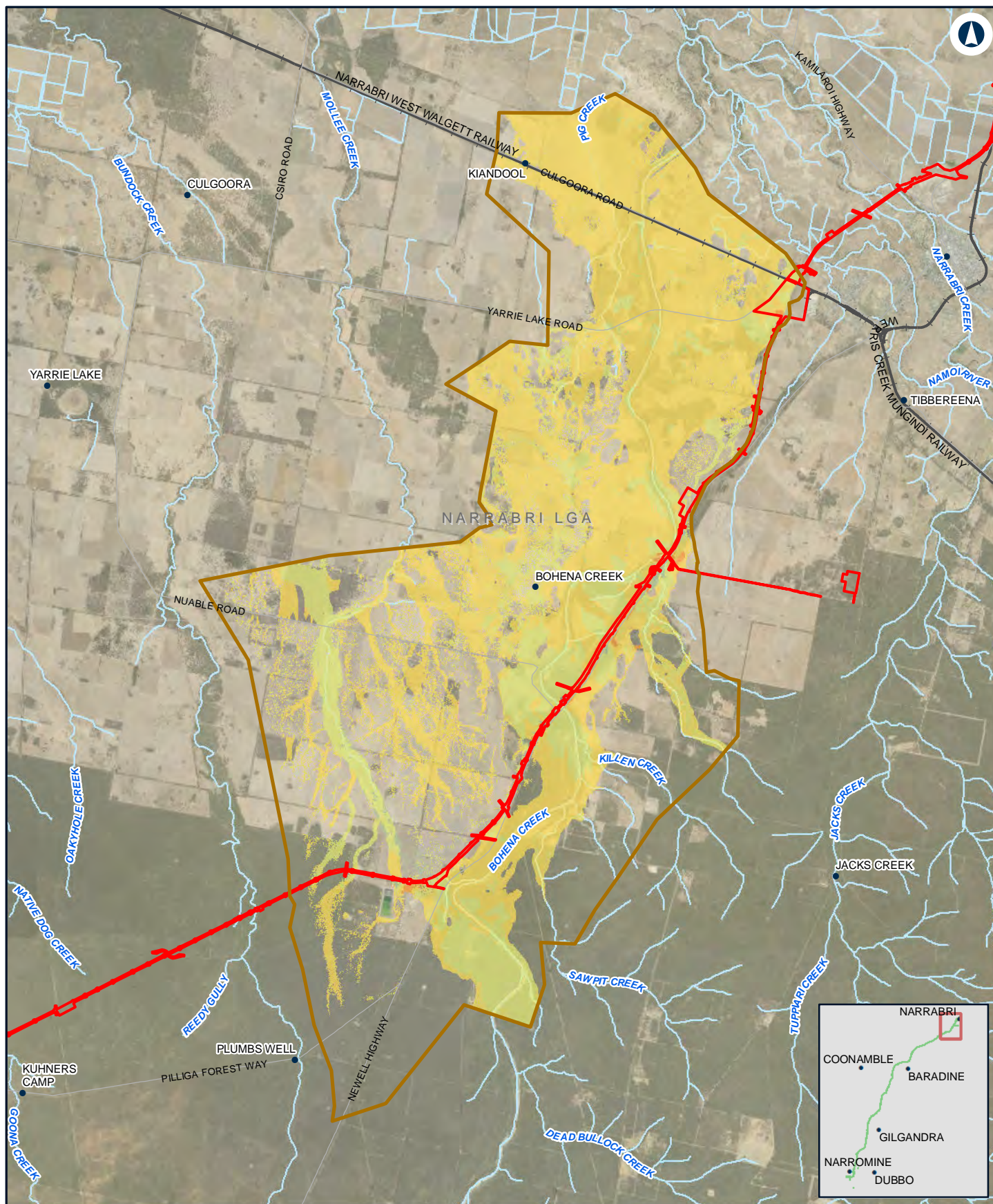
0.1 m/s - 0.5 m/s increase

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 - N2N1

Appendix G - Figure 2.5m

0 2 4 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 28/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:150,000

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

### LEGEND

The proposal site

Model boundary

### 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

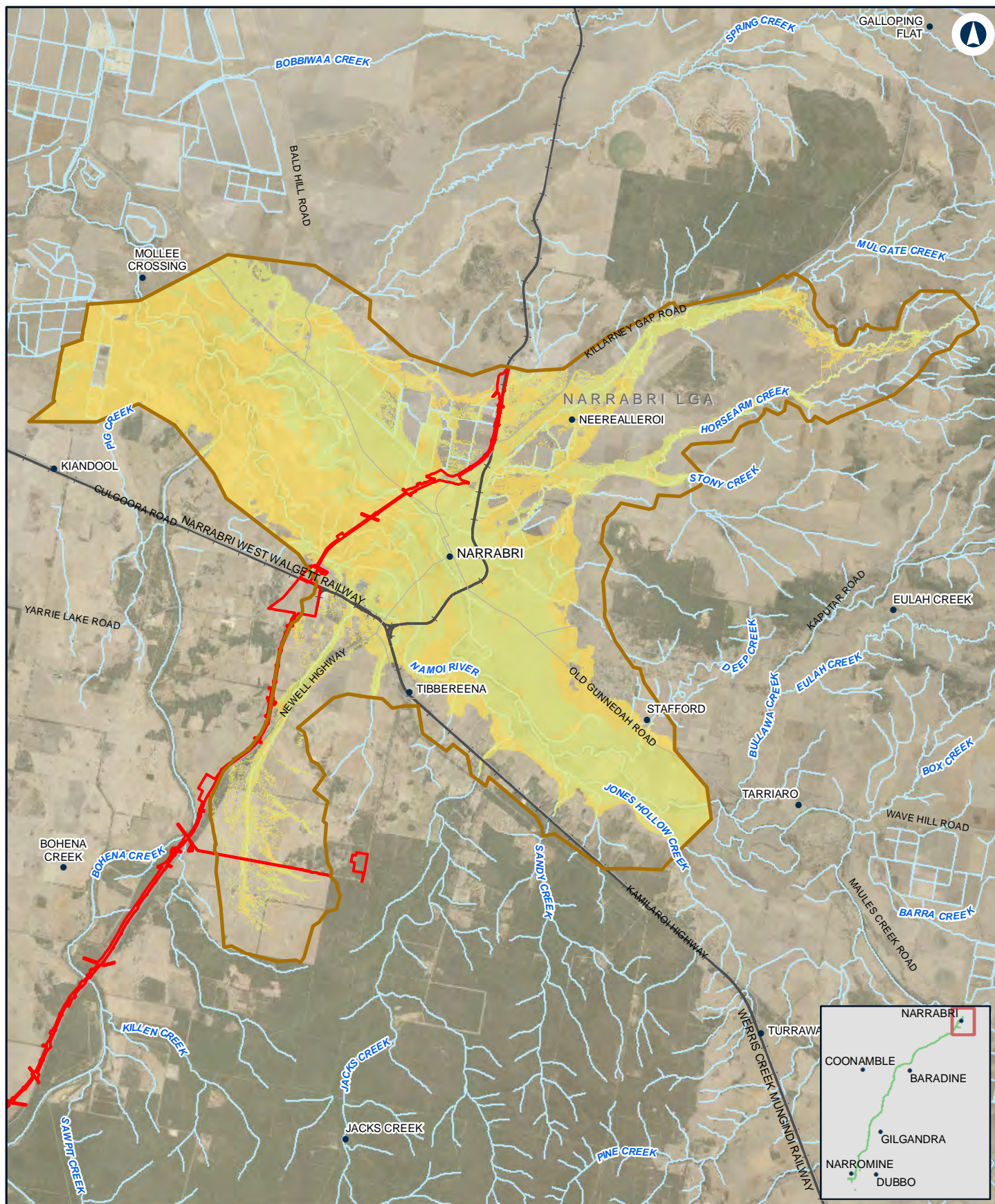
0.1 m/s - 0.5 m/s increase

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 - Narrabri

Appendix G - Figure 2.5n

0 2 4 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 28/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:160,000

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

### LEGEND

The proposal site

Model boundary

### 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

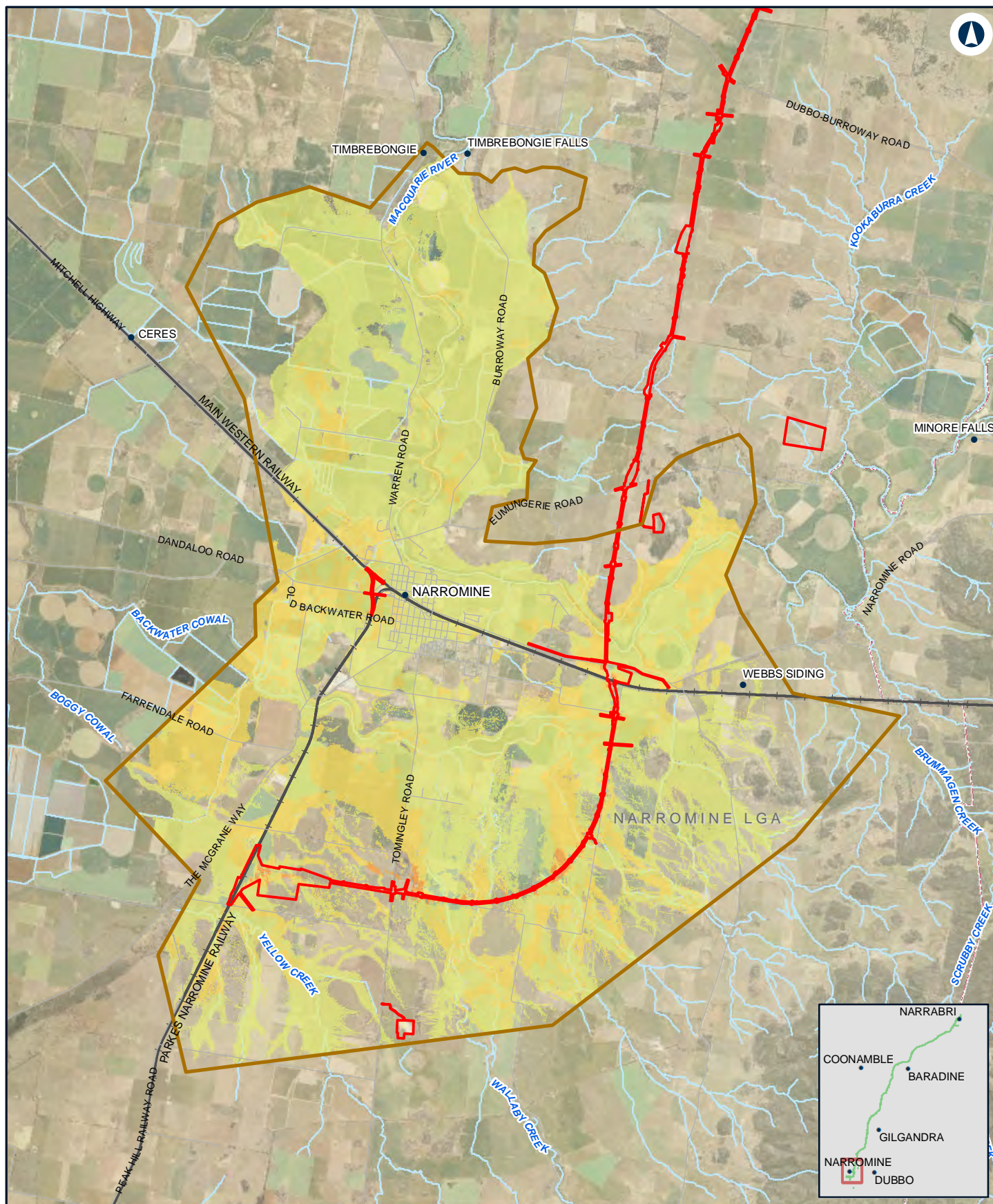
0.1 m/s - 0.5 m/s increase

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 - NFM

Appendix G Figure 2.6a

0 1.5 3 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020  
Author: JacobsGHD

Paper: A4  
Scale: 1:140,000

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

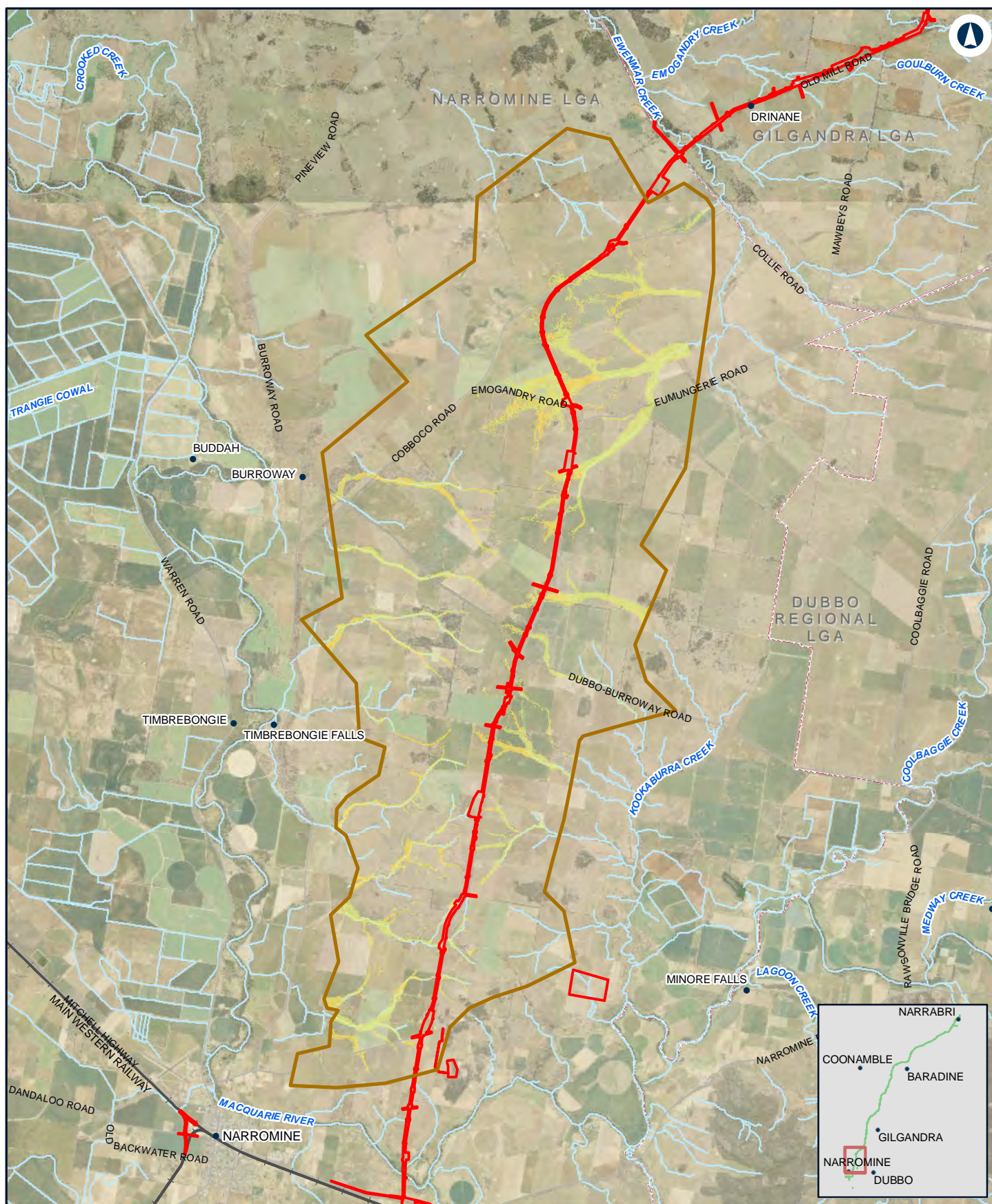
0.1 m/s - 0.5 m/s increase

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 2.6b

0 2 4 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:150,000

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

### LEGEND

The proposal site

Model boundary

### 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

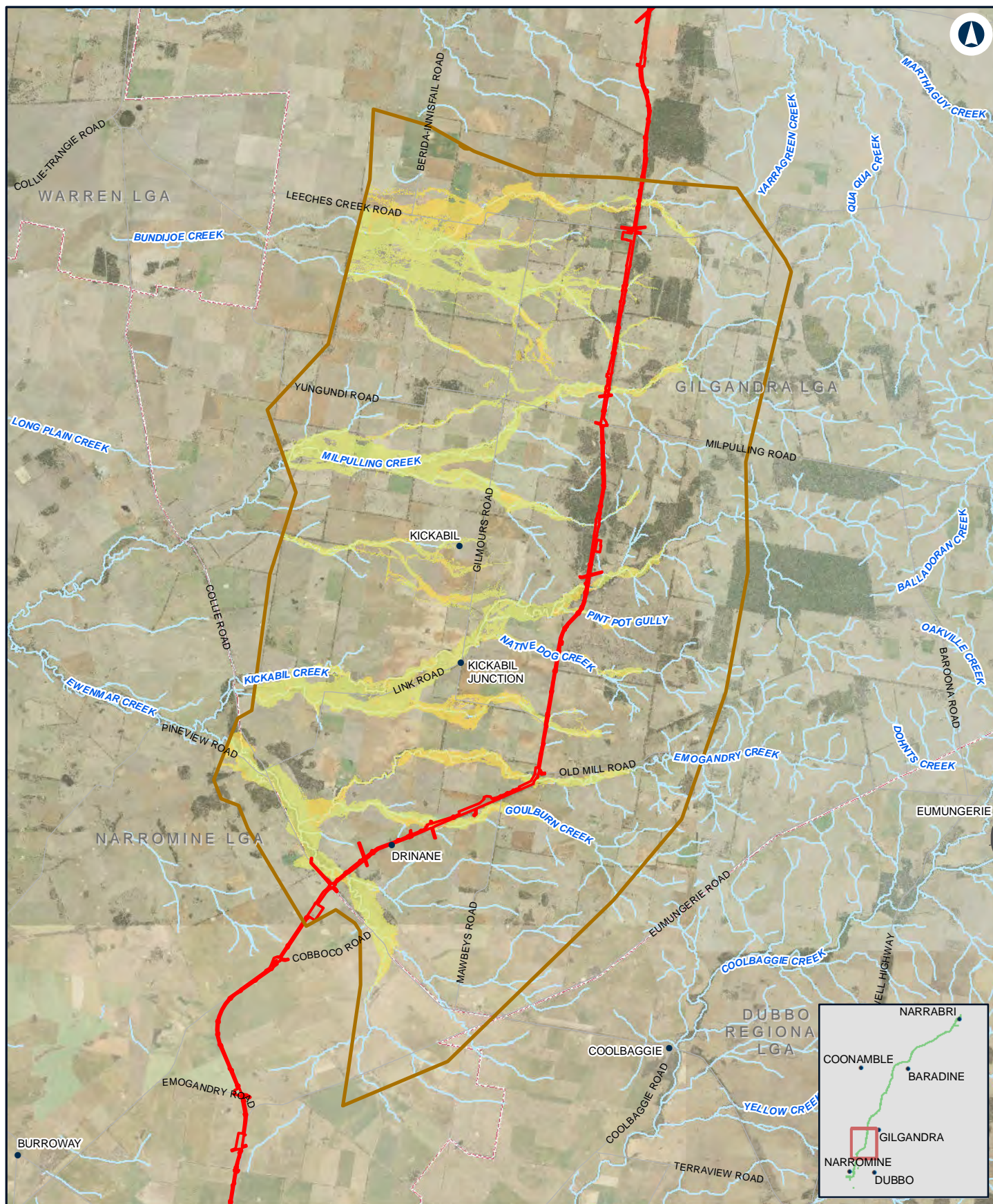
0.1 m/s - 0.5 m/s increase

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 - N2N13

Appendix G Figure 2.6c

0 2.5 5 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020  
Author: JacobsGHD

Paper: A4  
Scale: 1:180,000

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

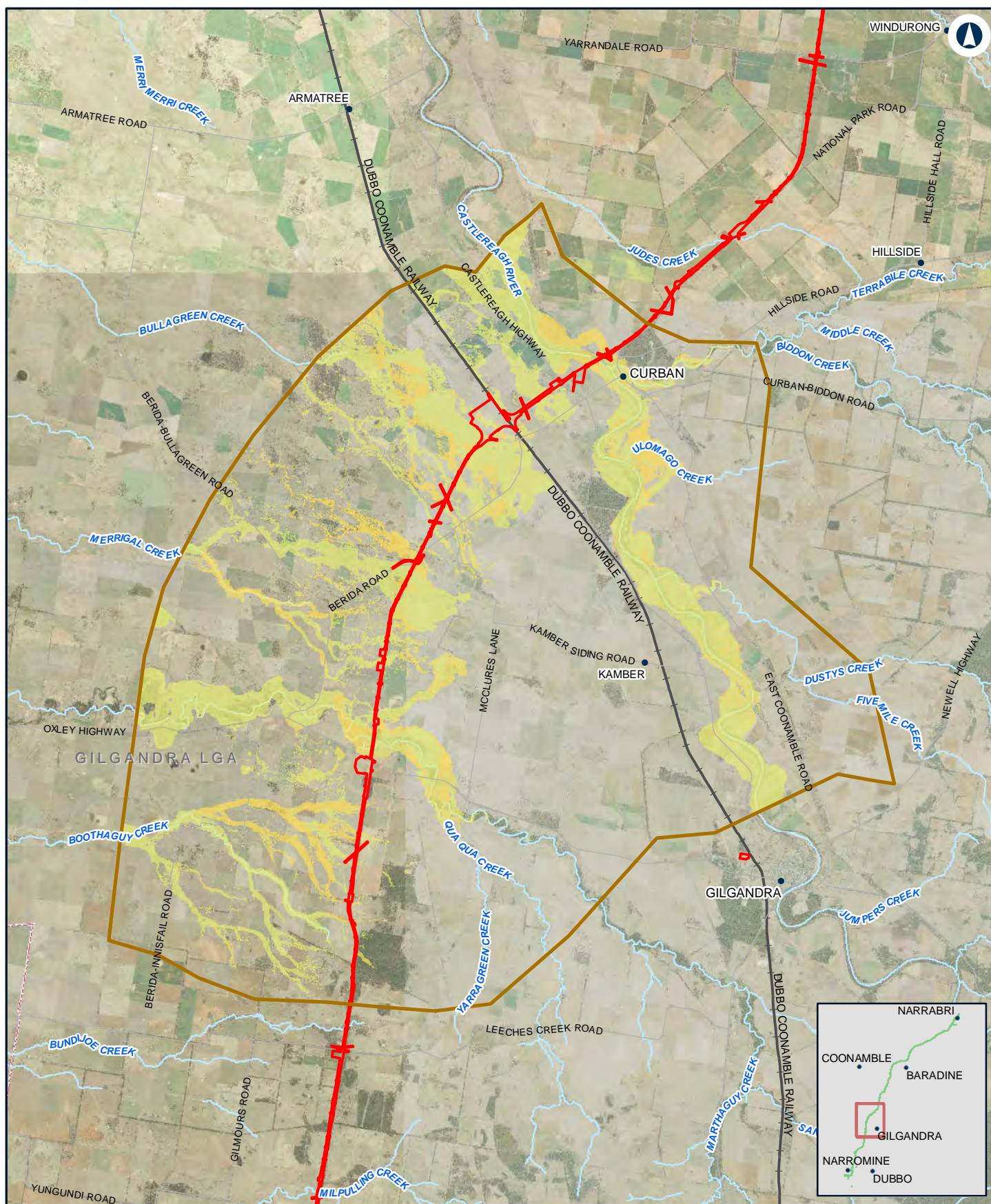
  0.1 m/s - 0.5 m/s increase

  0.5 m/s - 1 m/s increase

  > 1 m/s increase

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## NARROMINE TO NARRABRI

Change in velocity - 0.5% AEP - N2N11N12

Appendix G Figure 2.6d

0 2.5 5  
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:200,000

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

### LEGEND

  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

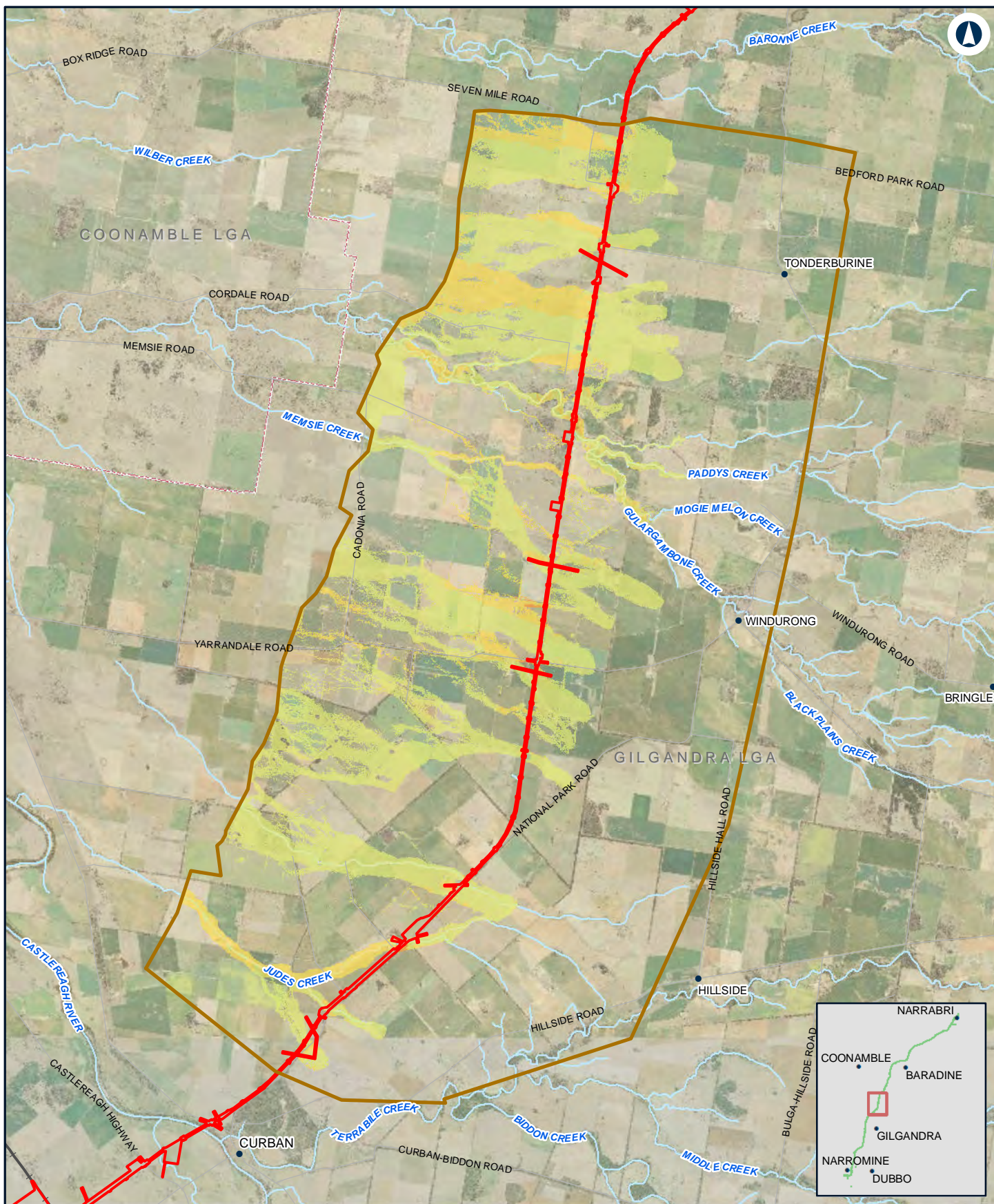
  0.1 m/s - 0.5 m/s increase

  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 2.6e

0 1.5 3 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020  
Author: JacobsGHD

Paper: A4  
Scale: 1:130,000

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

### LEGEND

  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

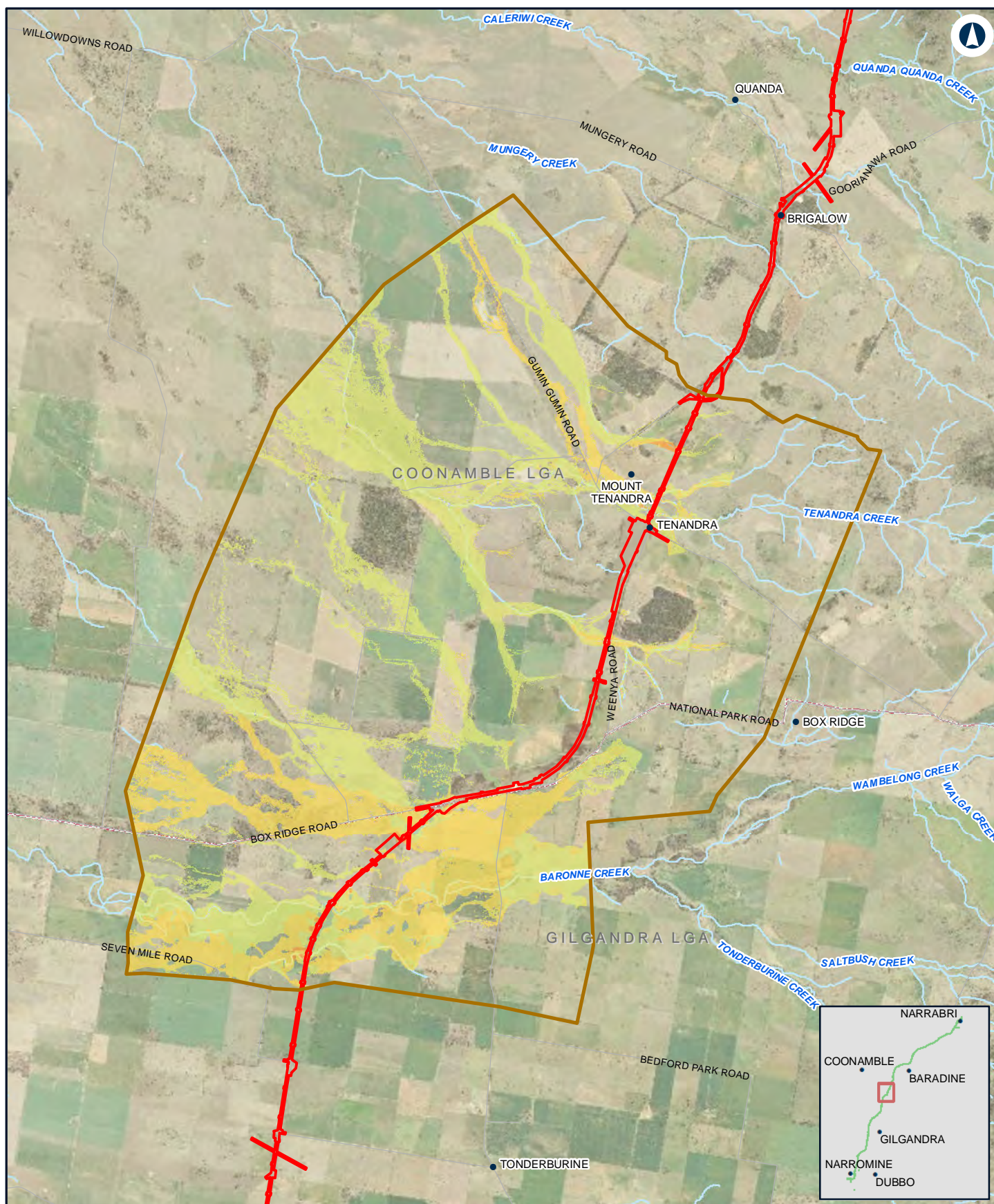
0.5 m/s - 1 m/s increase

> 1 m/s increase

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## NARROMINE TO NARRABRI

Change in velocity - 0.5% AEP - N2N9

Appendix G Figure 2.6f

0 1.5 3 Km

Coordinate System: GDA 1994 MGA Zone 55

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

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

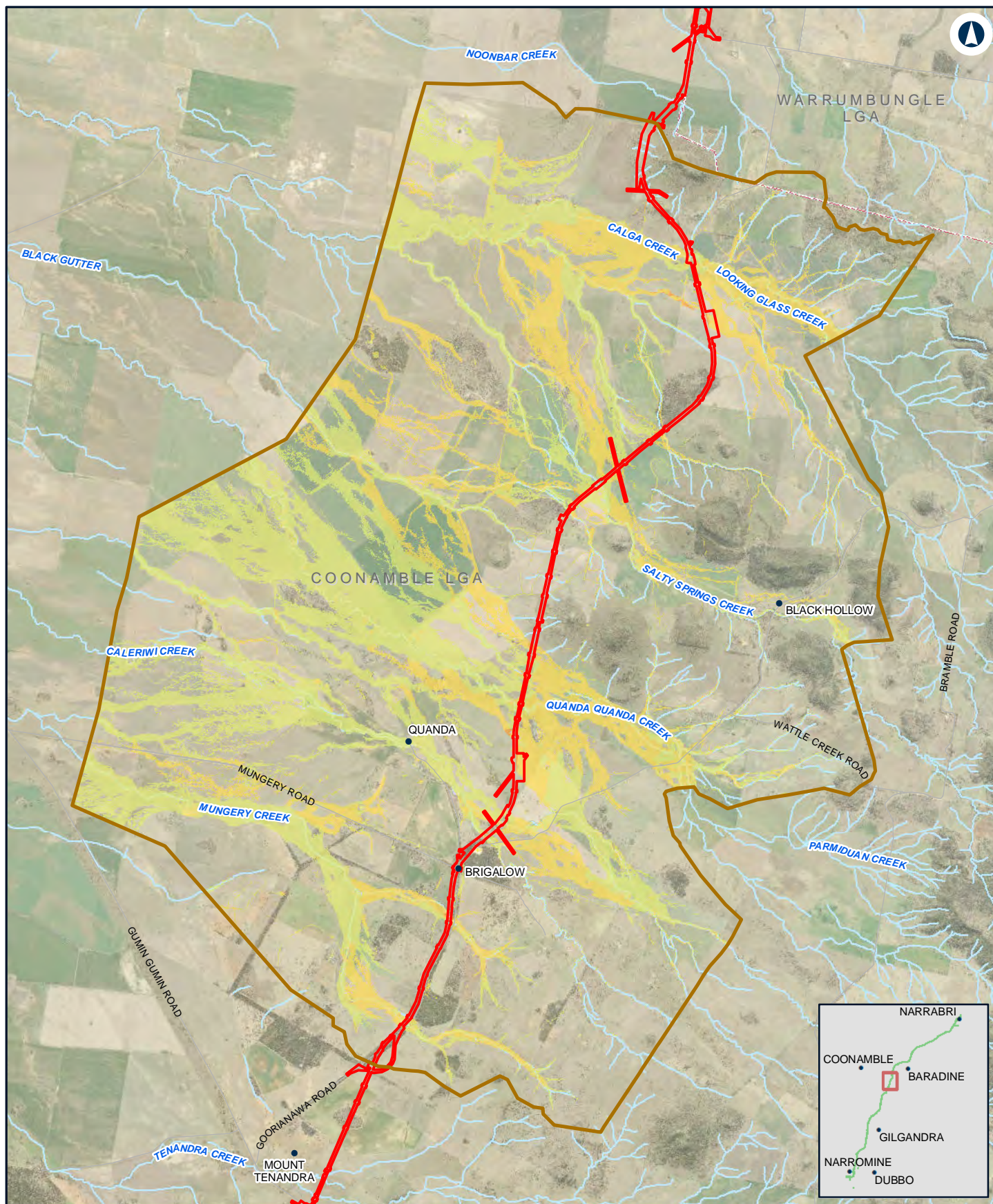
  0.1 m/s - 0.5 m/s increase

  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 2.6g

0 1 2 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020  
Author: JacobsGHD

Paper: A4  
Scale: 1:100,000

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

### LEGEND

  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

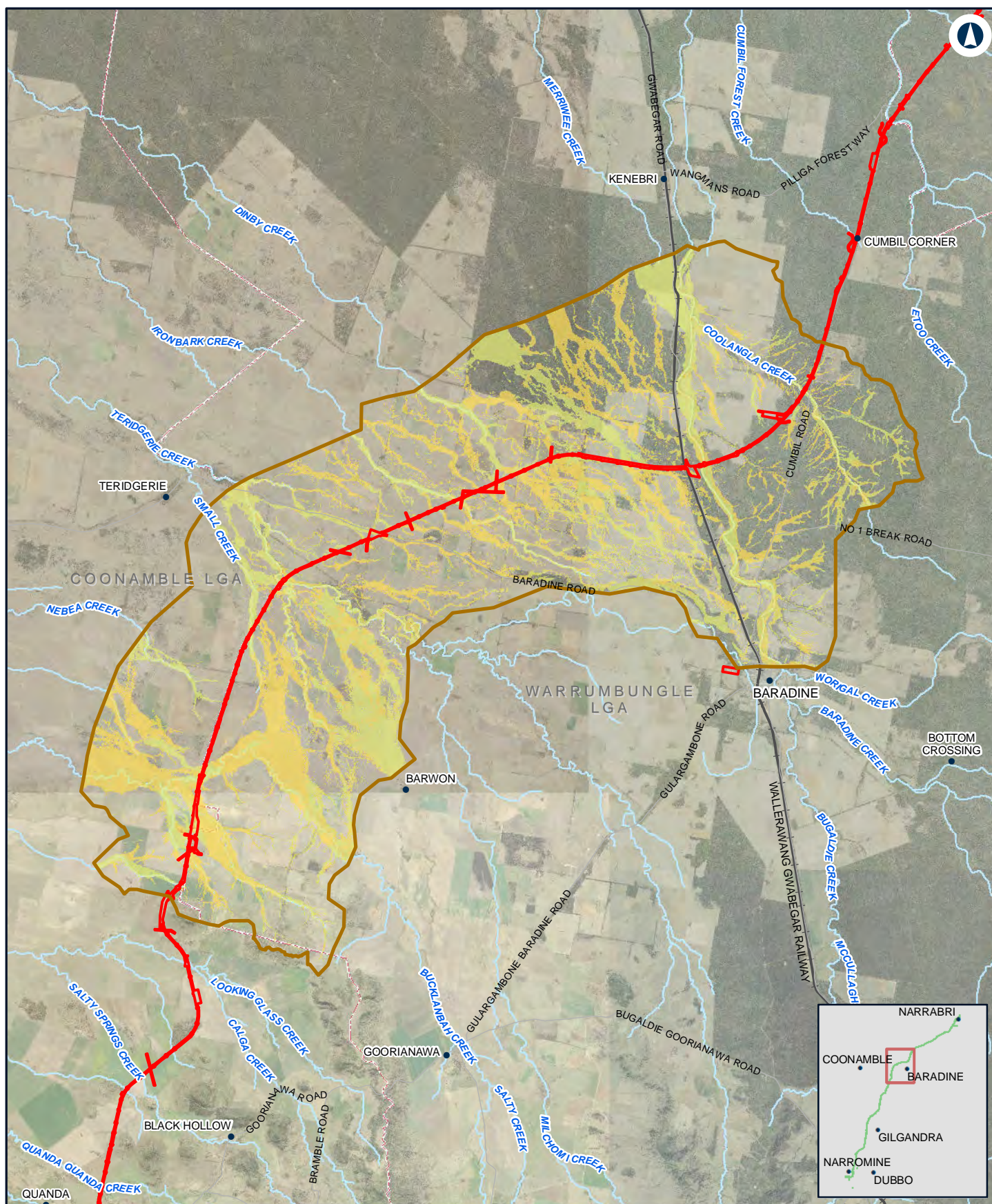
  0.5 m/s - 1 m/s increase

  > 1 m/s increase

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## NARROMINE TO NARRABRI

Change in velocity - 0.5% AEP - N2N7

Appendix G Figure 2.6h

0 2.5 5  
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:200,000

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

### LEGEND

  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

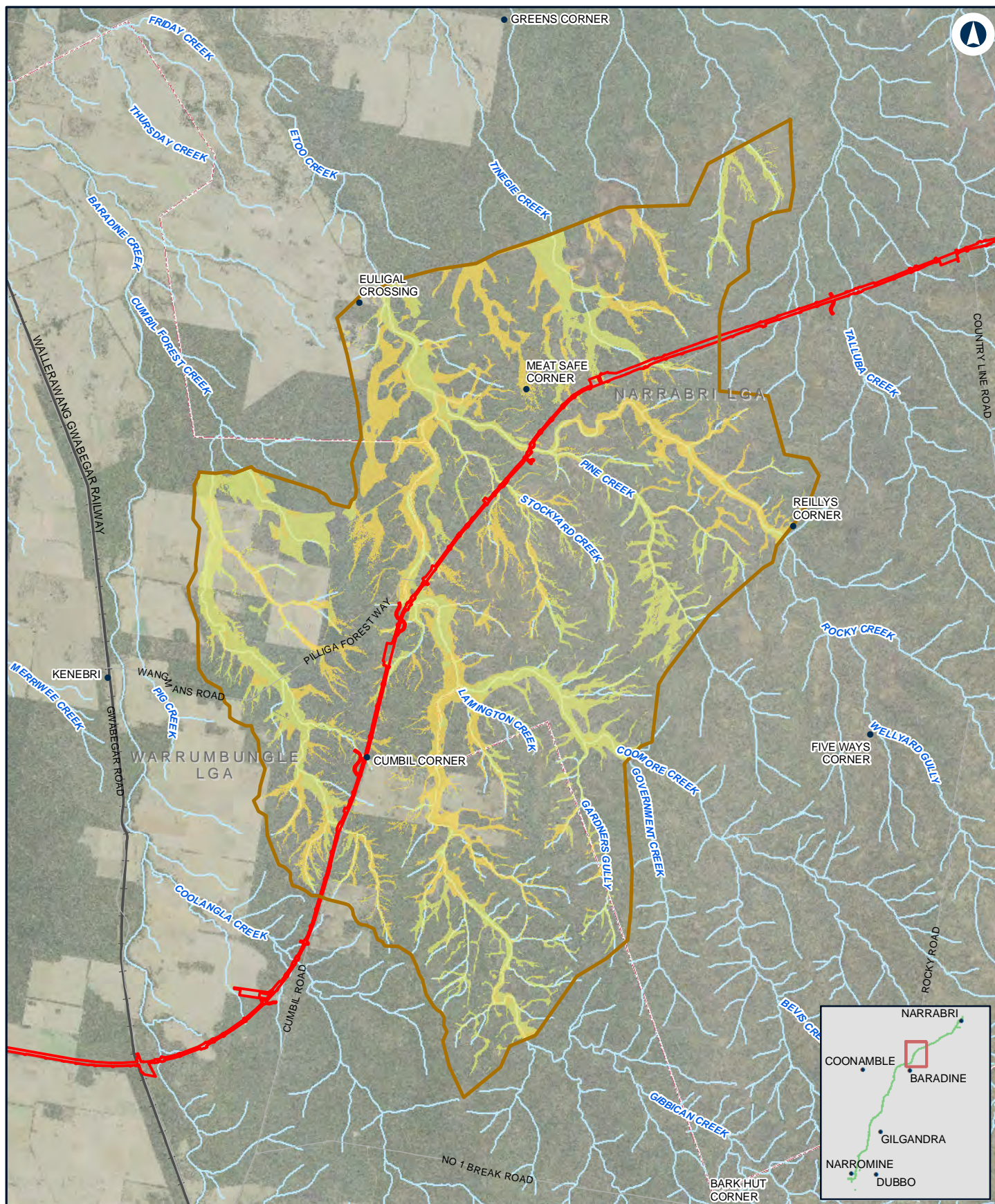
  0.1 m/s - 0.5 m/s increase

  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 - 0.5% AEP - N2N6

Appendix G Figure 2.6i

0 2 4 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:150,000

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

### LEGEND

  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

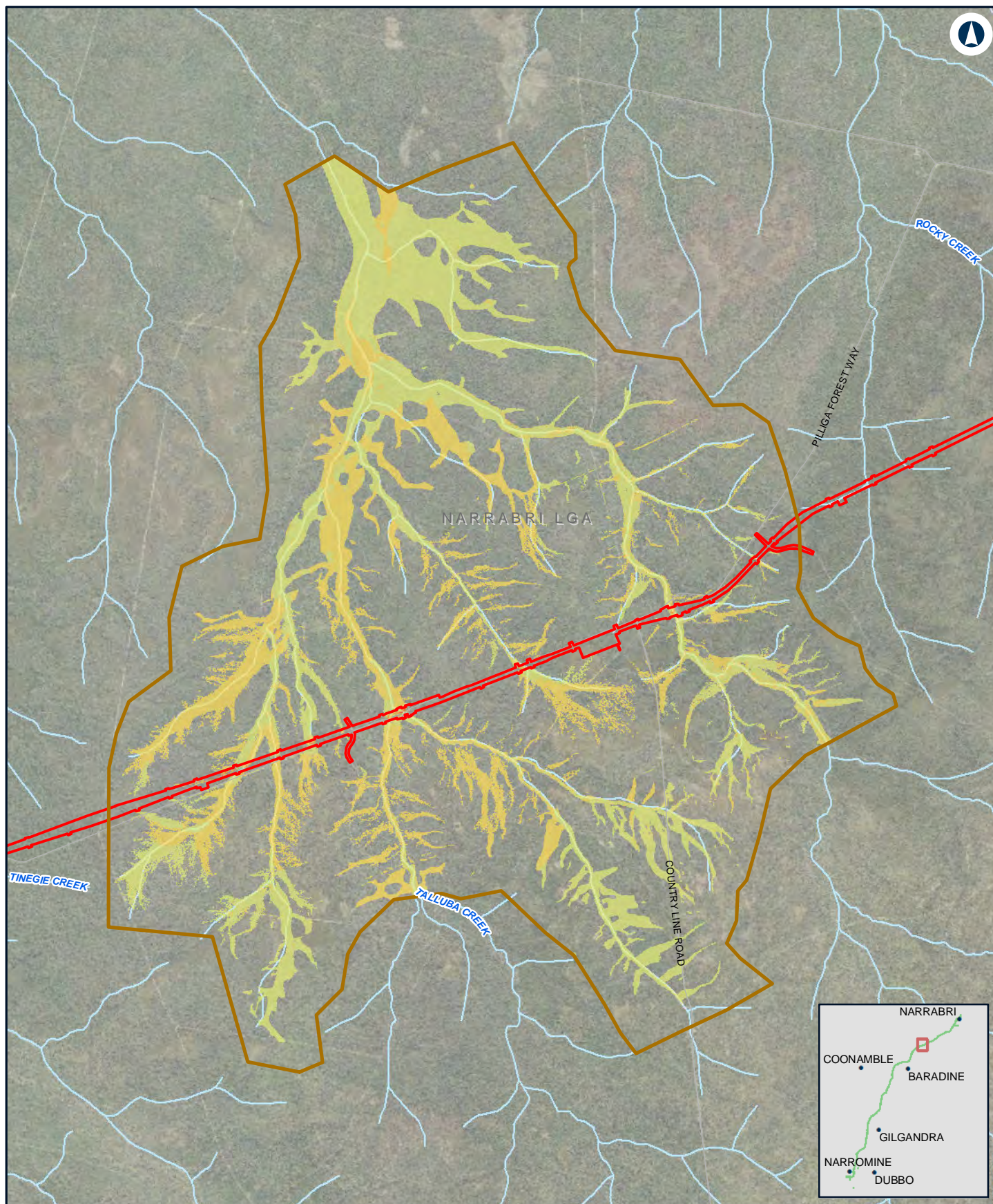
  0.1 m/s - 0.5 m/s increase

  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 2.6j

0 1 2 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020  
Author: JacobsGHD

Paper: A4  
Scale: 1:70,000

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

### LEGEND

  The proposal site

  Model boundary

### 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

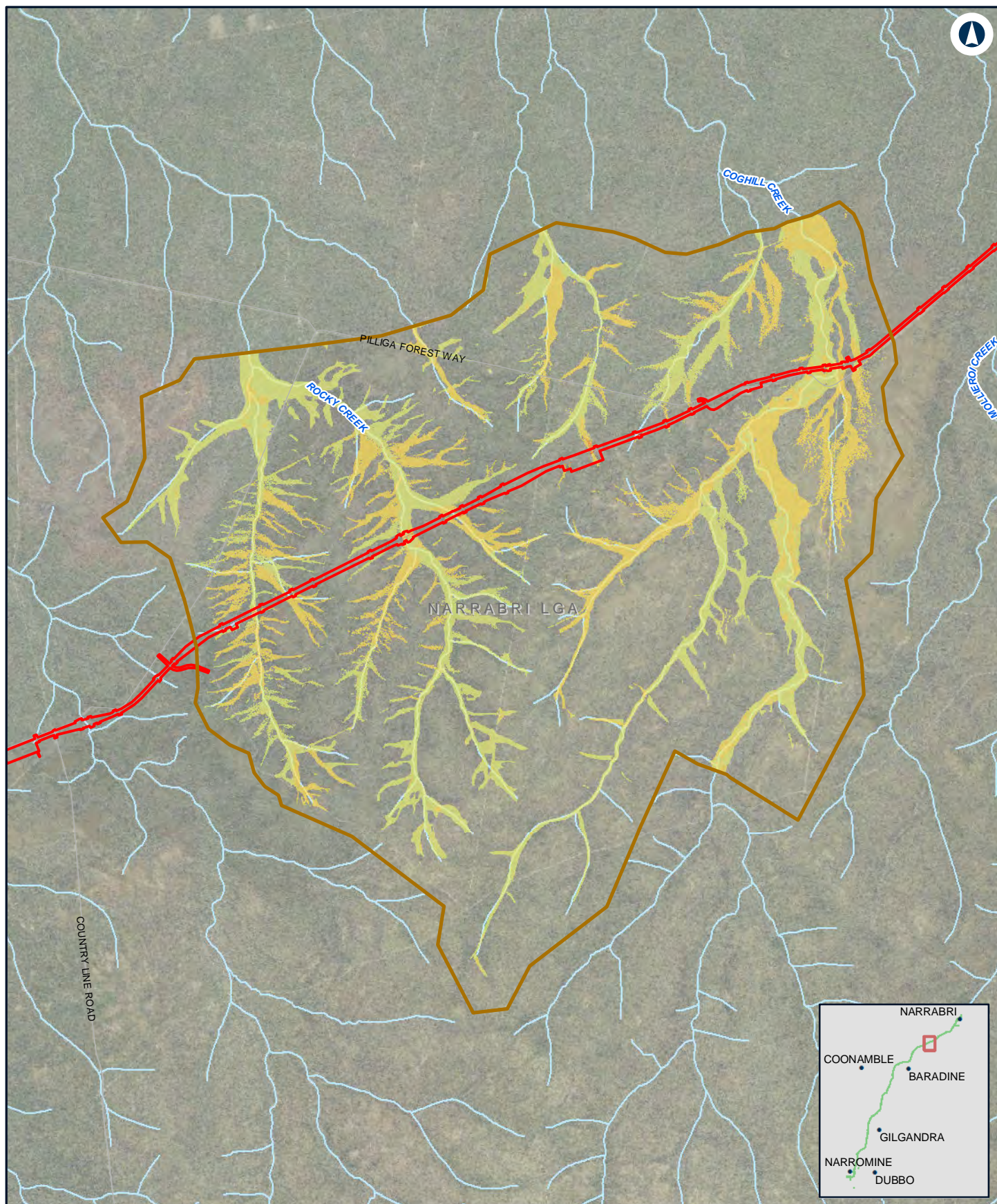
0.5 m/s - 1 m/s increase

> 1 m/s increase

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## NARROMINE TO NARRABRI

Change in velocity - 0.5% AEP - N2N4

Appendix G Figure 2.6k

0 1 2  
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020  
Author: JacobsGHD

Paper: A4  
Scale: 1:80,000

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

### LEGEND

  The proposal site

  Model boundary

### 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

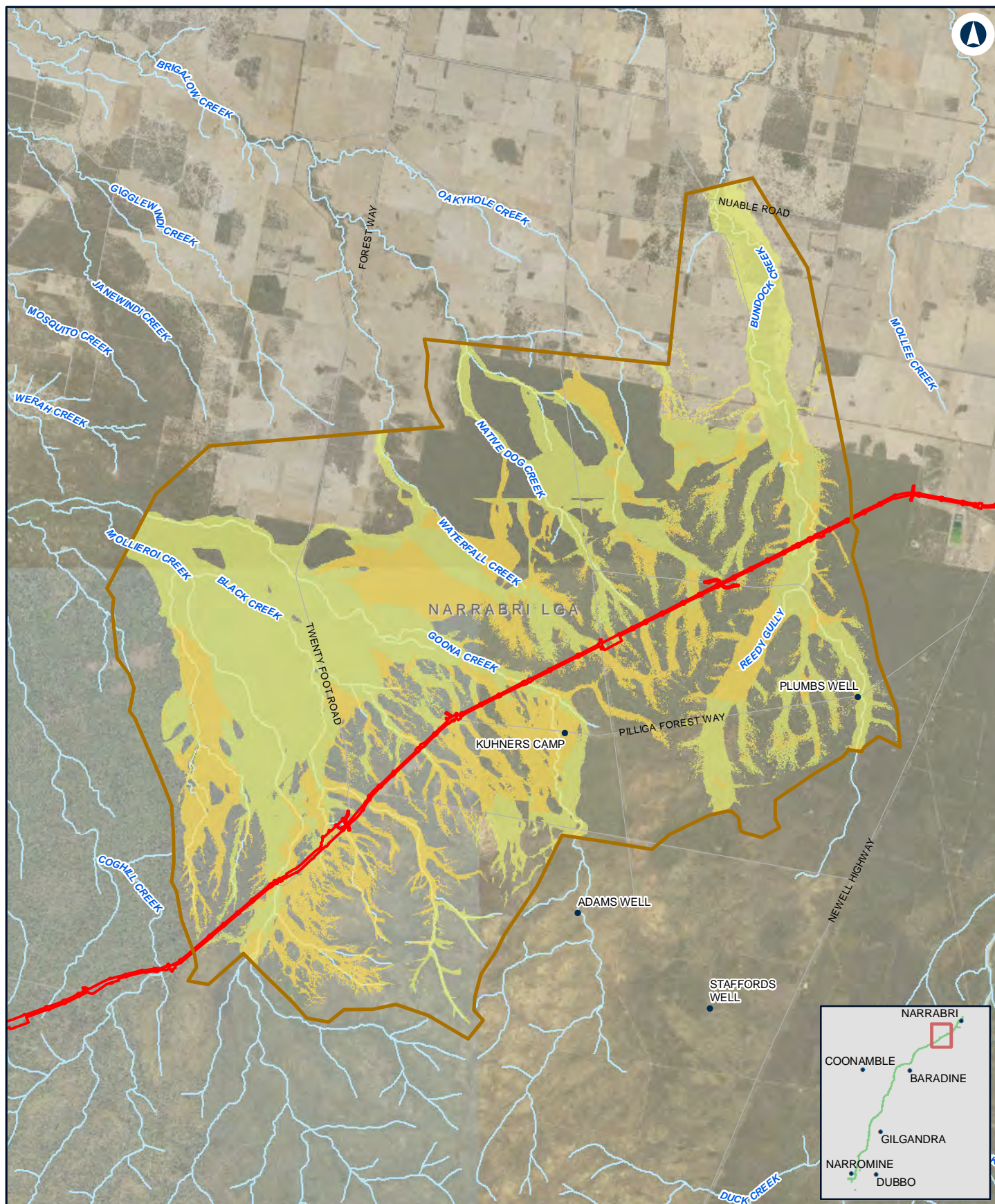
0.1 m/s - 0.5 m/s increase

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 2.6I

0 1.5 3 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020  
Author: JacobsGHD

Paper: A4  
Scale: 1:140,000

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

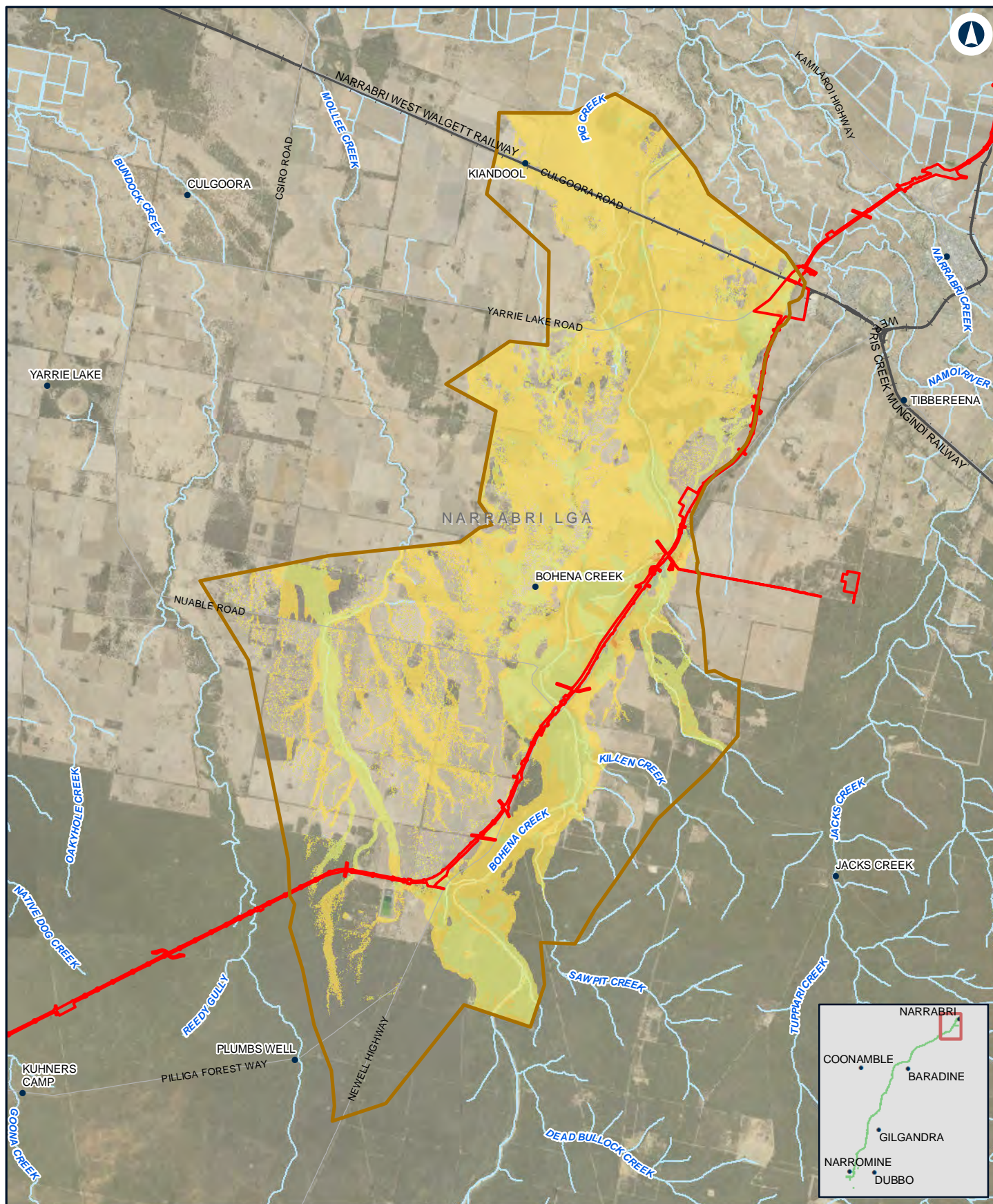
0.1 m/s - 0.5 m/s increase

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: 27/10/2020  
Author: JacobsGHD

Paper: A4  
Scale: 1:150,000

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

#### LEGEND

- The proposal site
- Model boundary

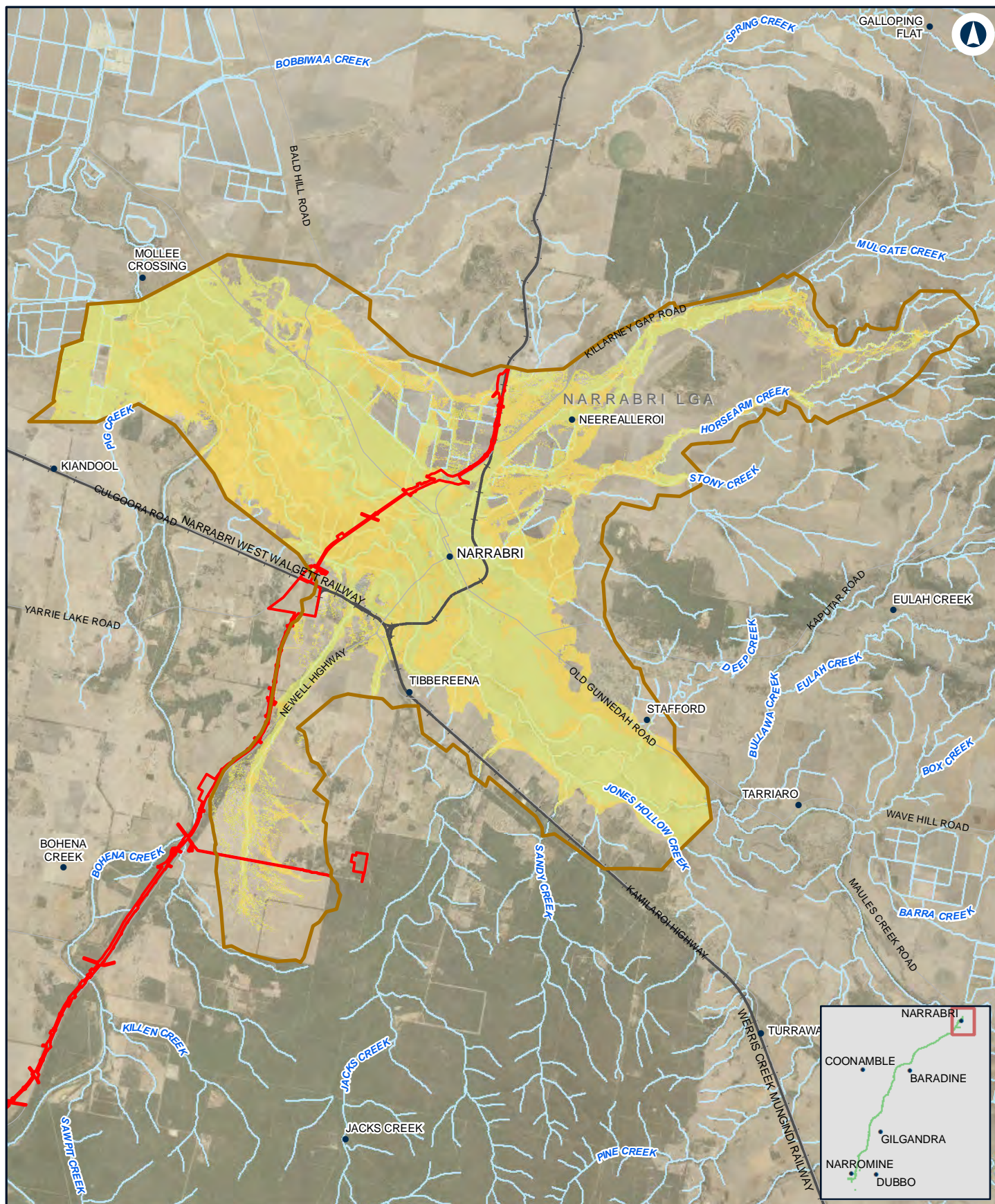
#### Change in Flood Velocity

- > 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 - Narrabri

Appendix G Figure 2.6n

0 2 4  
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:160,000

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

### LEGEND

  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

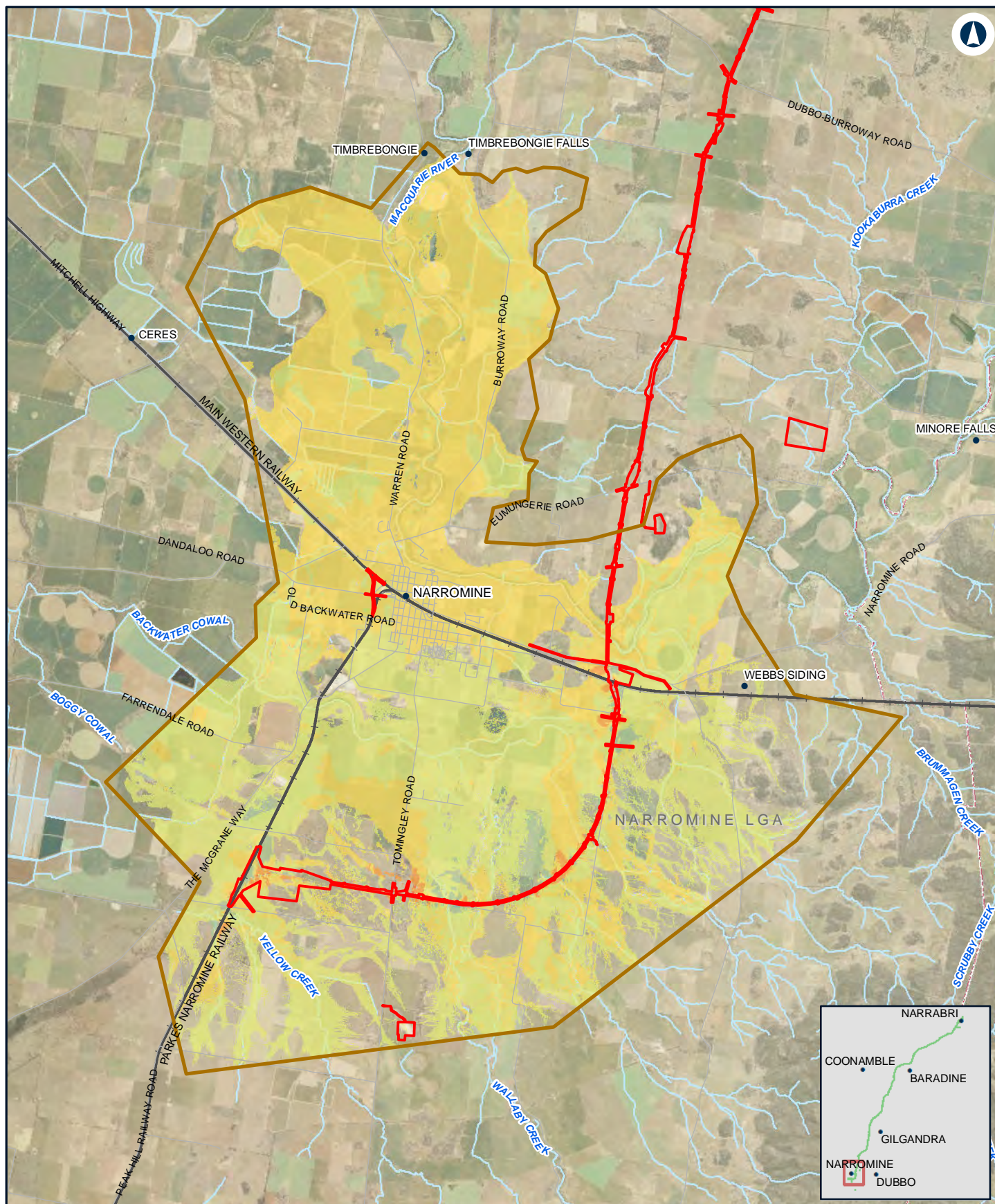
  0.1 m/s - 0.5 m/s increase

  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 - NFM

Appendix G Figure 2.7a

0 1.5 3 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020  
Author: JacobsGHD

Paper: A4  
Scale: 1:140,000

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

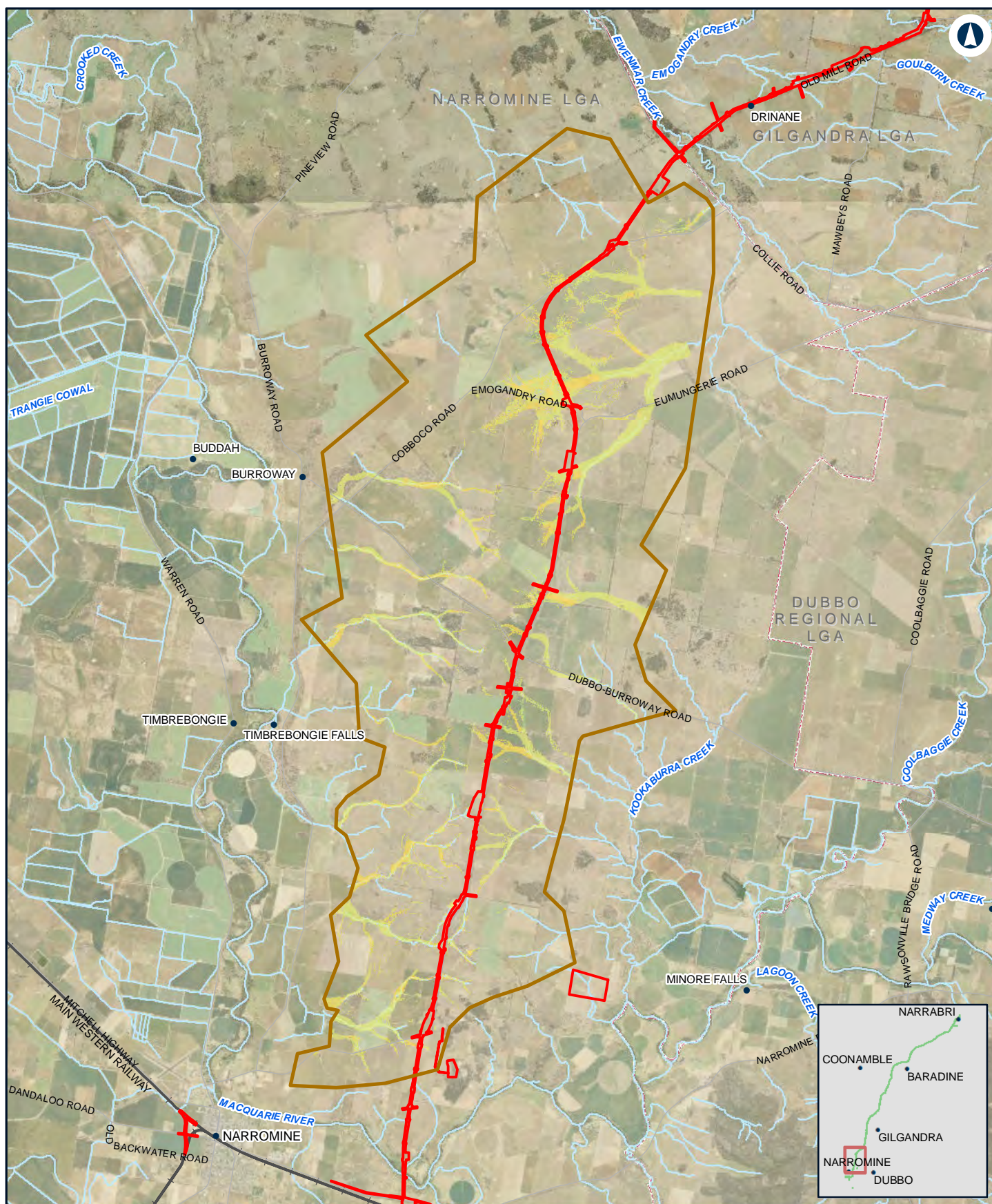
  0.1 m/s - 0.5 m/s increase

  0.5 m/s - 1 m/s increase

  > 1 m/s increase

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## NARROMINE TO NARRABRI

Change in velocity - 0.2% AEP - N2N14

Appendix G Figure 2.7b

0 2 4 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:150,000

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

### LEGEND

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

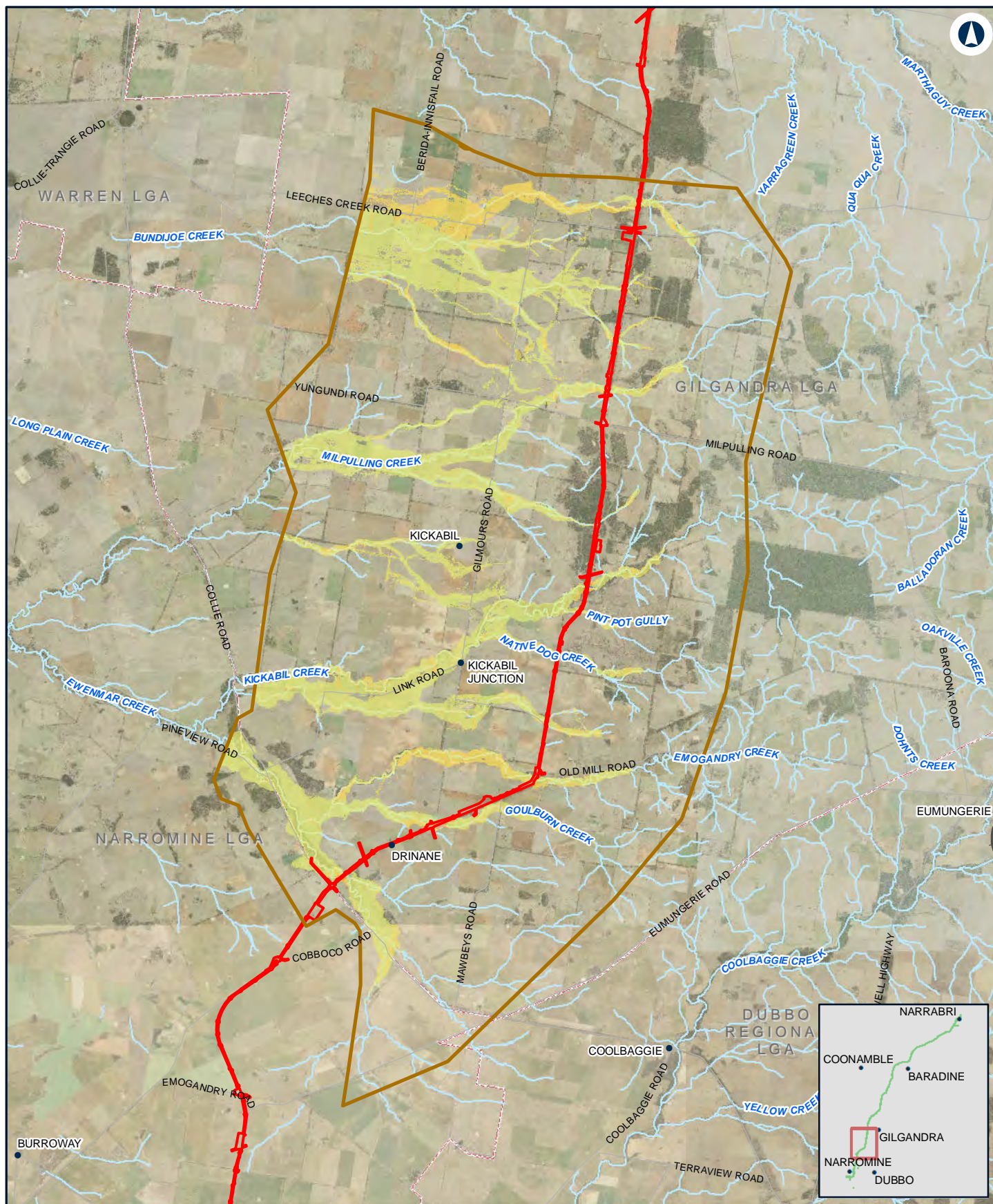
0.1 m/s - 0.5 m/s increase

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 2.7c

0 2.5 5 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:180,000

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

### LEGEND

  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

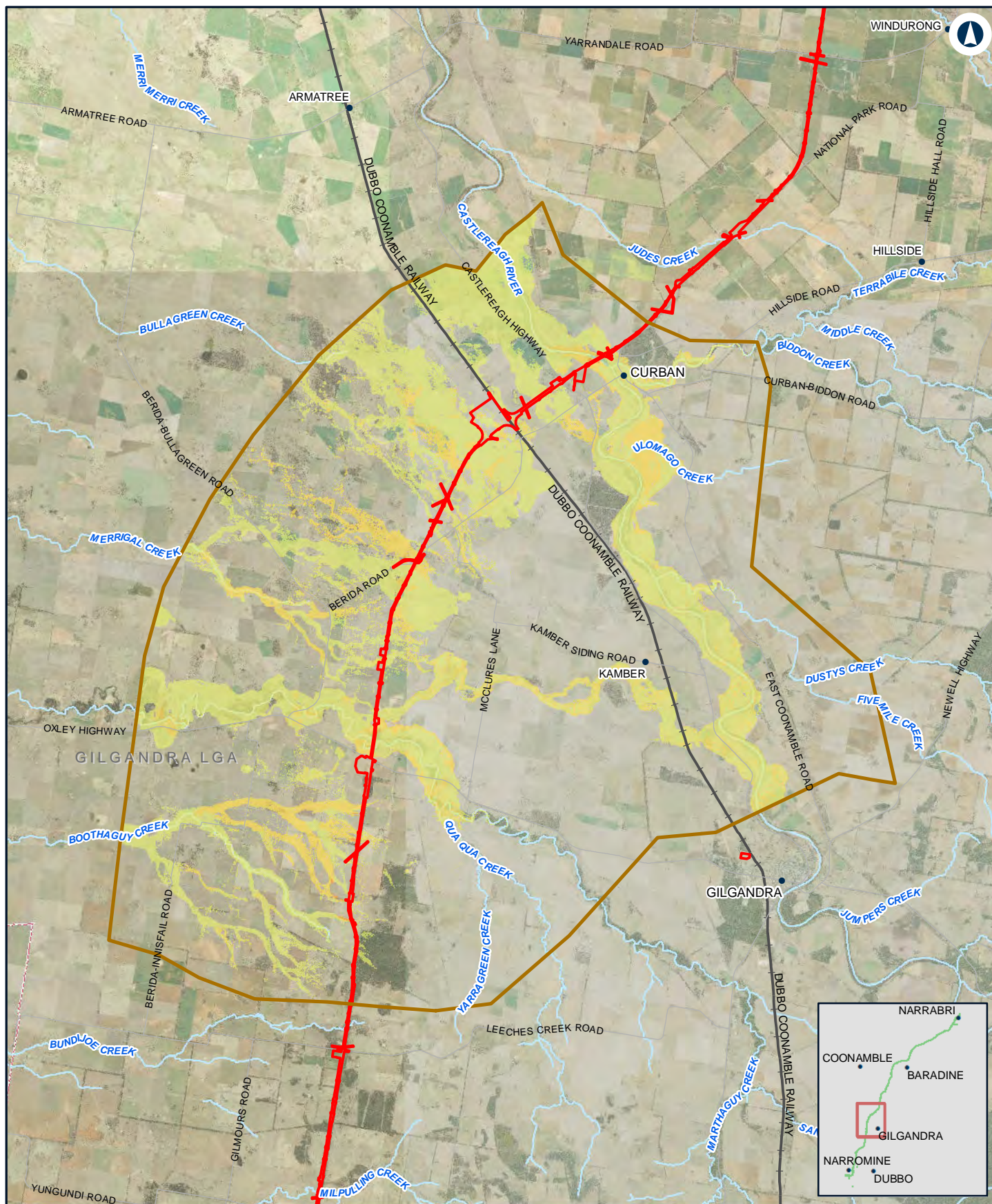
  0.5 m/s - 1 m/s increase

  > 1 m/s increase

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## NARROMINE TO NARRABRI

Change in velocity - 0.2% AEP - N2N11N12

Appendix G Figure 2.7d

0 2.5 5  
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:200,000

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

### LEGEND

  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

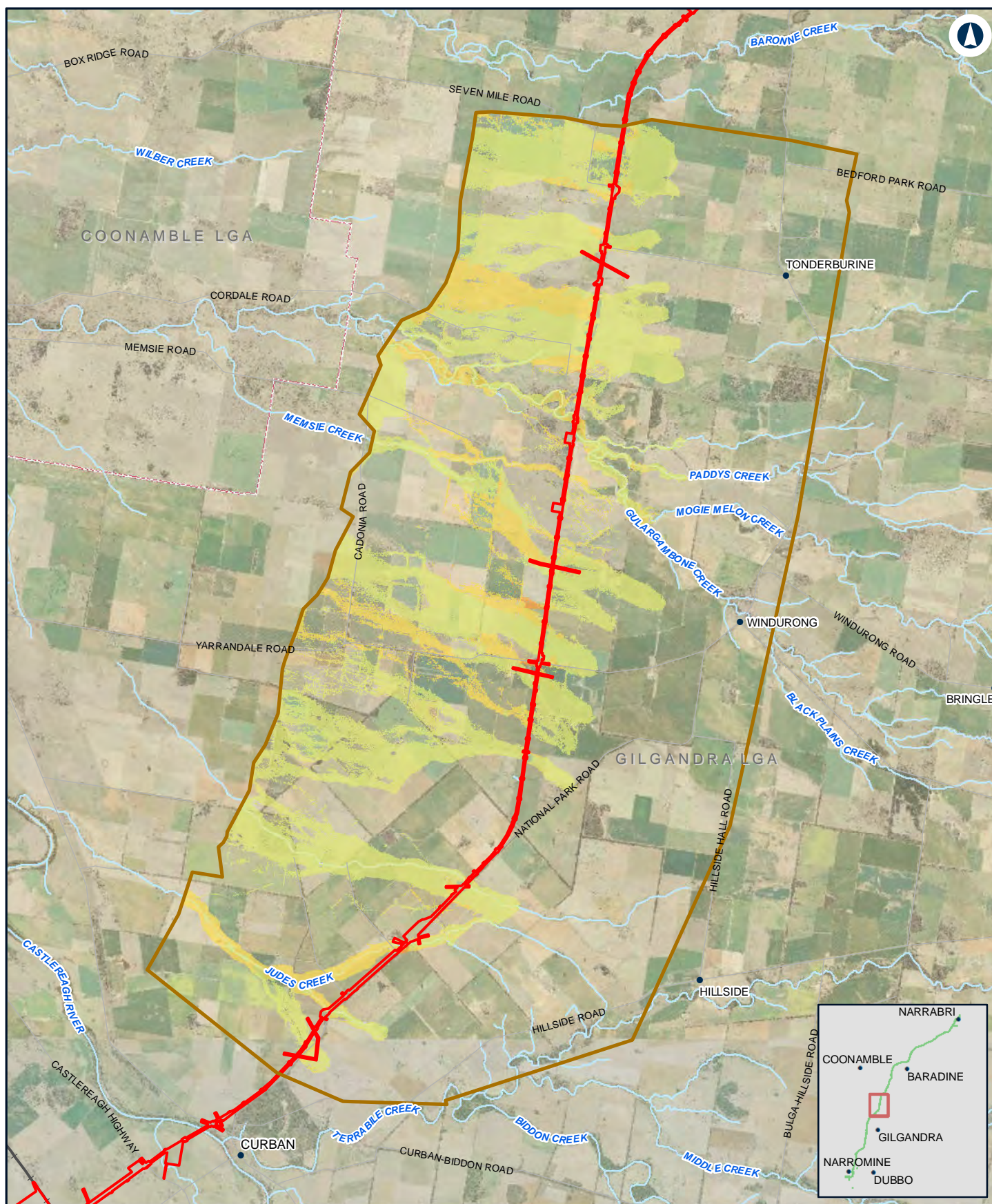
  0.1 m/s - 0.5 m/s increase

  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 2.7e

0 1.5 3 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020  
Author: JacobsGHD

Paper: A4  
Scale: 1:130,000

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

### LEGEND

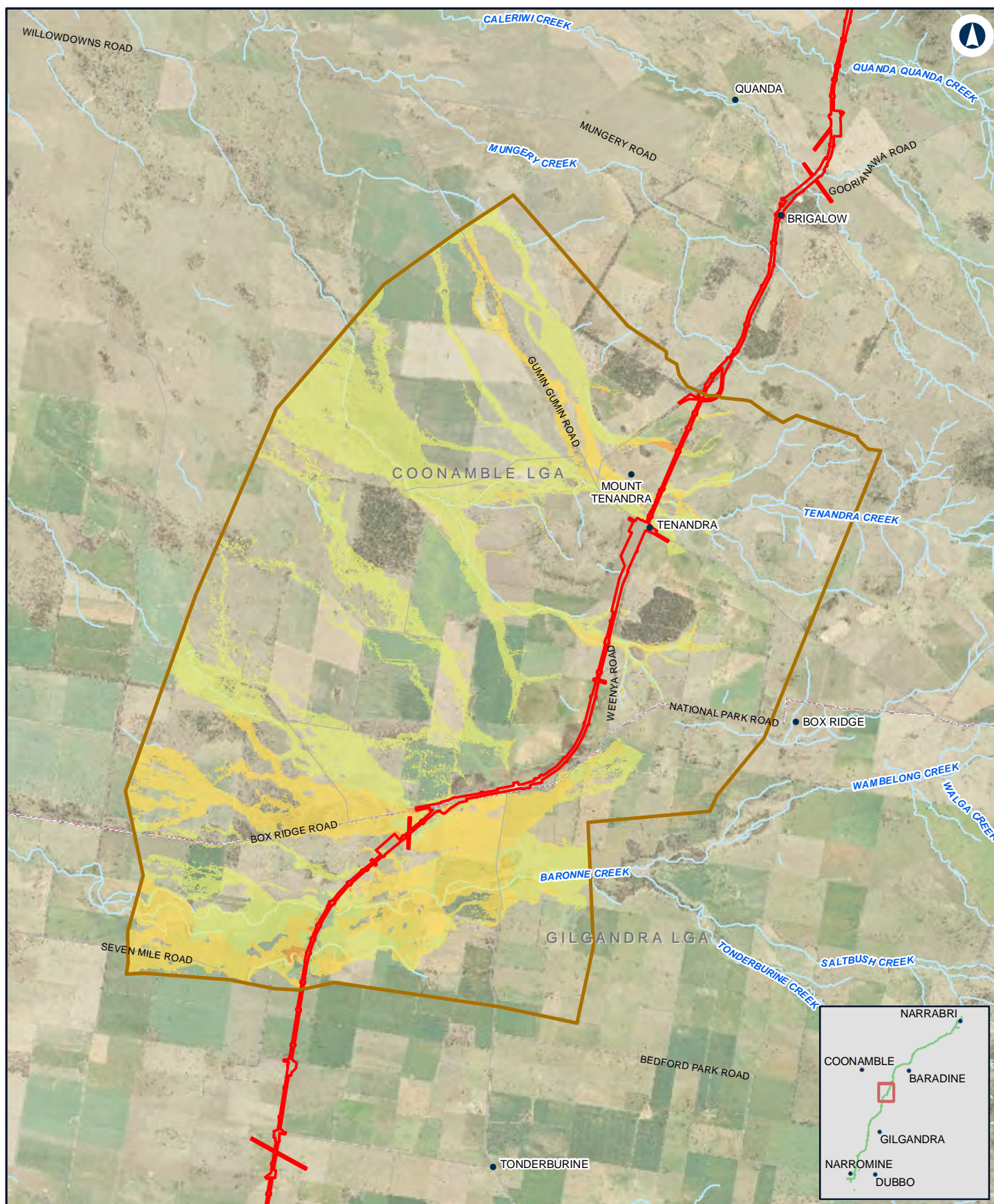
- The proposal site
- Model boundary

### 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 2.7f

0 1.5 3 Km

Coordinate System: GDA 1994 MGA Zone 55

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

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

### LEGEND

- The proposal site
- Model boundary

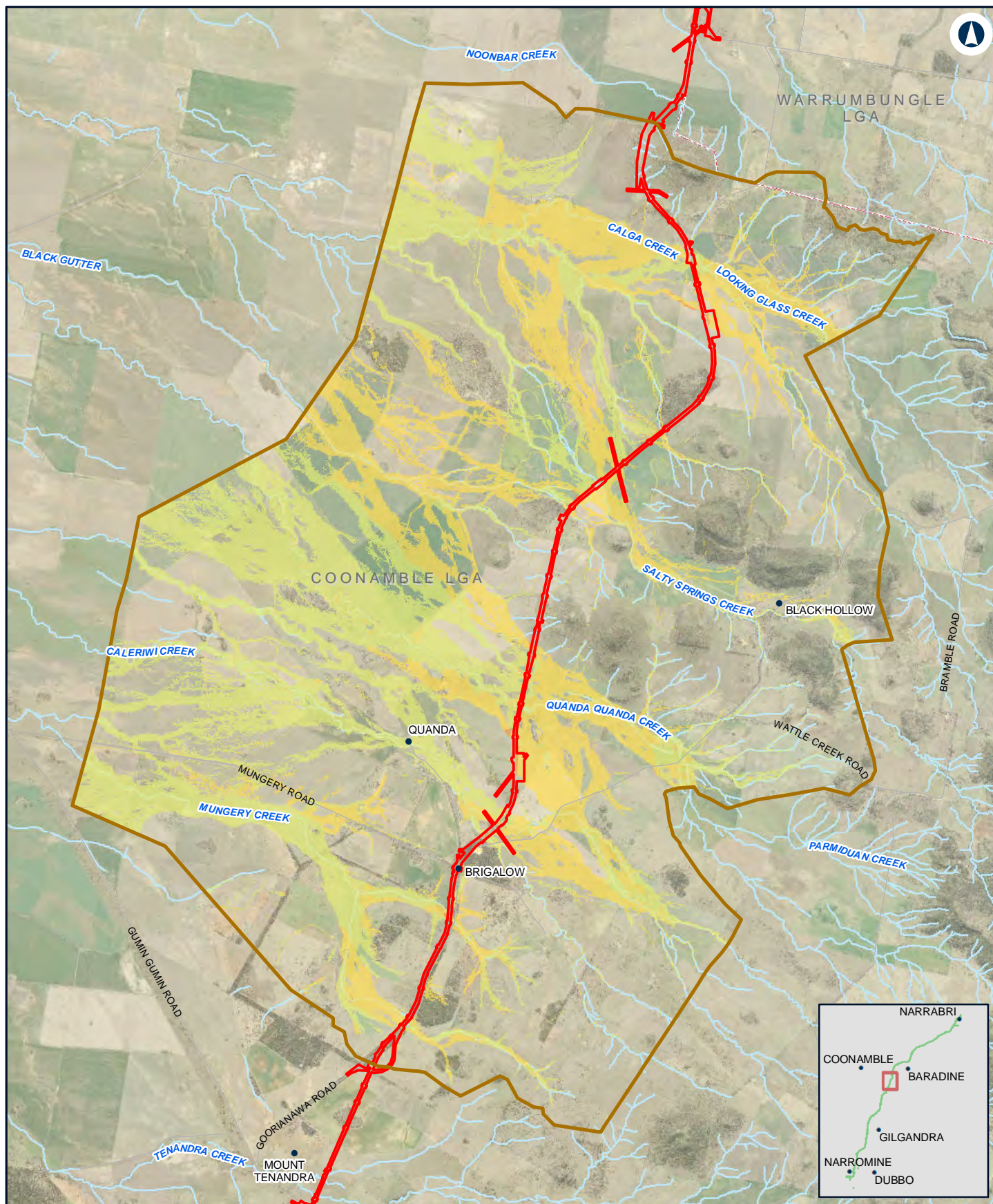
### Change in Flood Velocity

- > 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 2.7g

0 1 2  
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020  
Author: JacobsGHD

Paper: A4  
Scale: 1:100,000

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

### 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

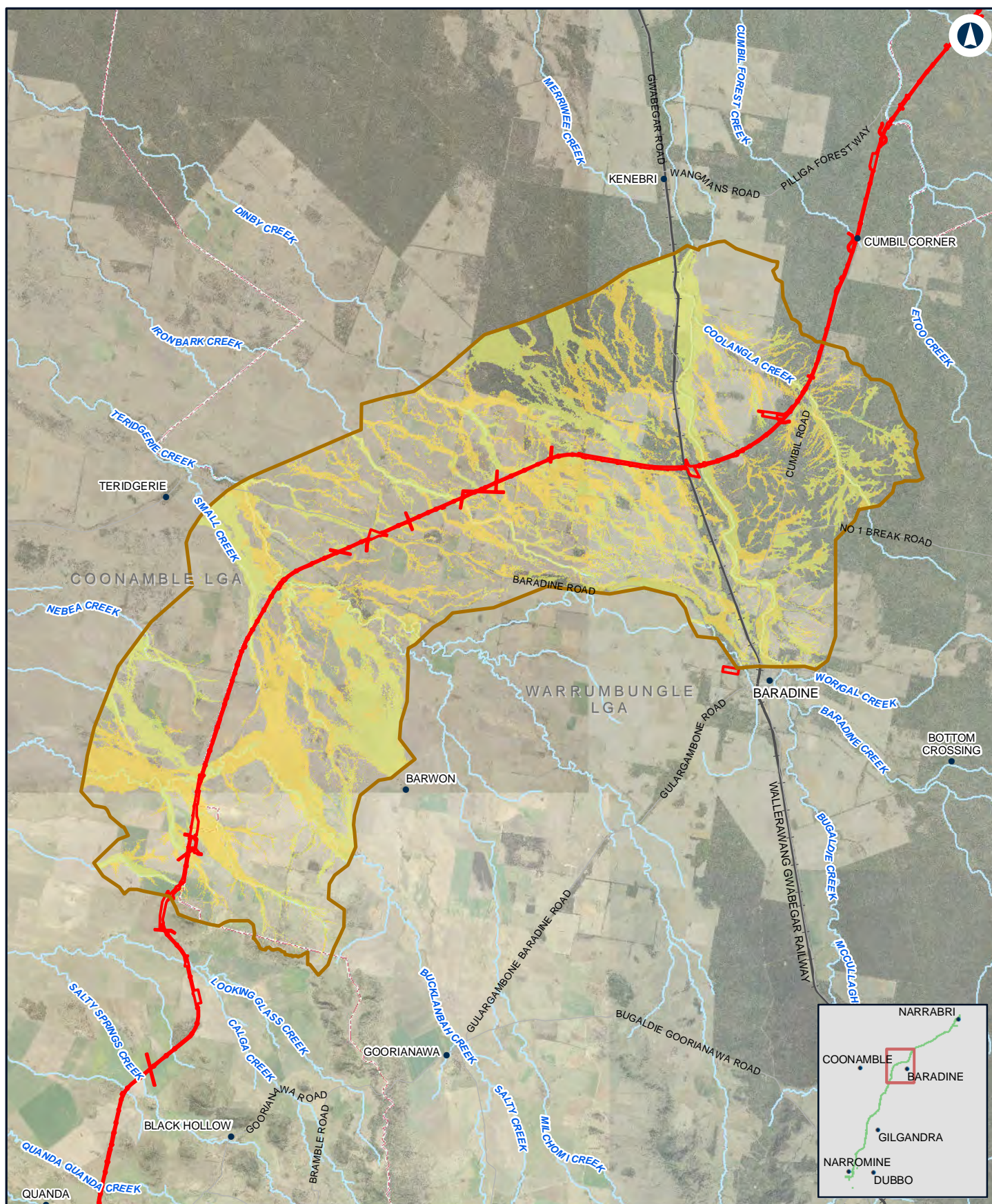
0.1 m/s - 0.5 m/s increase

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 2.7h

0 2.5 5  
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:200,000

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

### 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

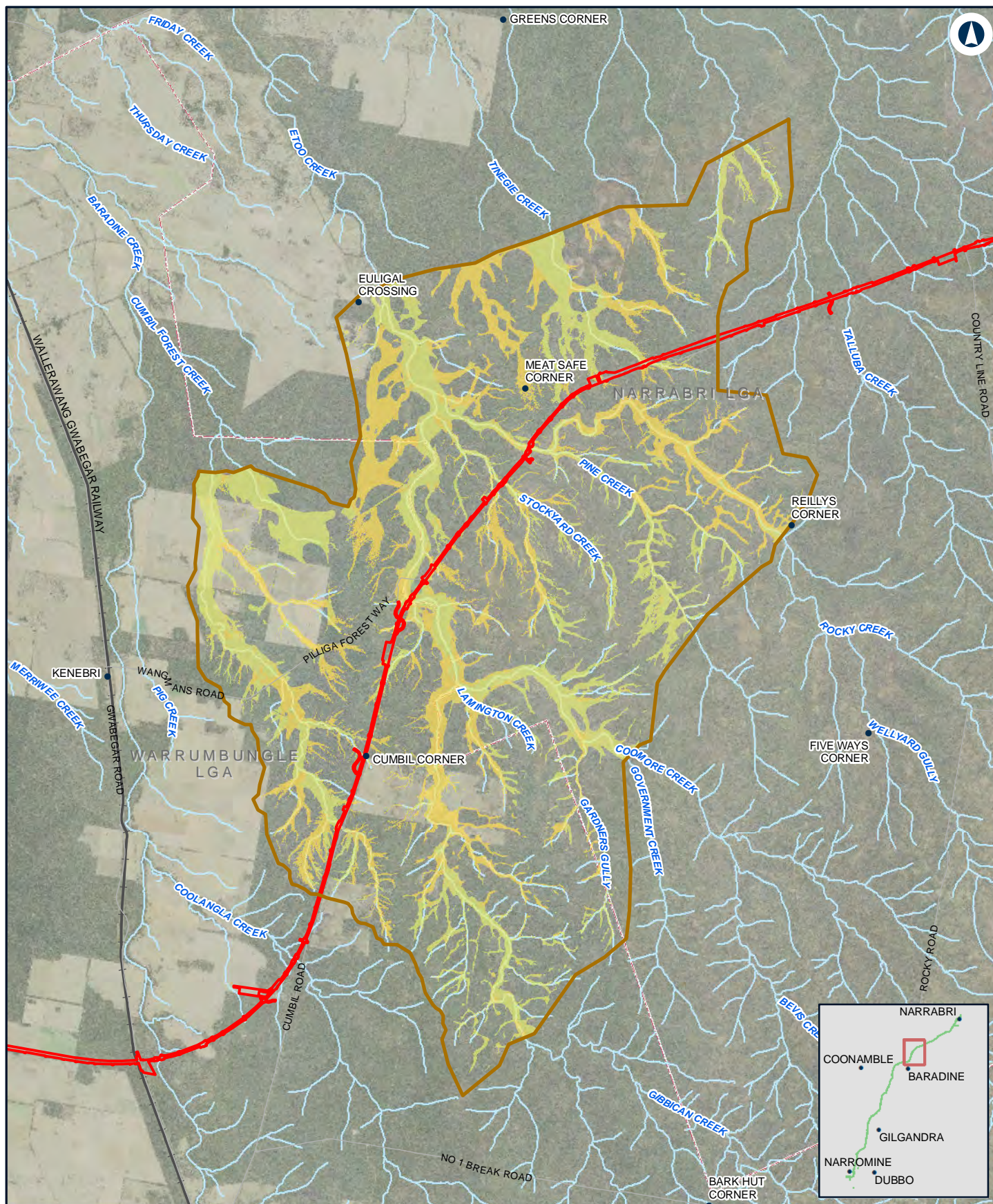
  0.1 m/s - 0.5 m/s increase

  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 2.7i

0 2 4  
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:150,000

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

### 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

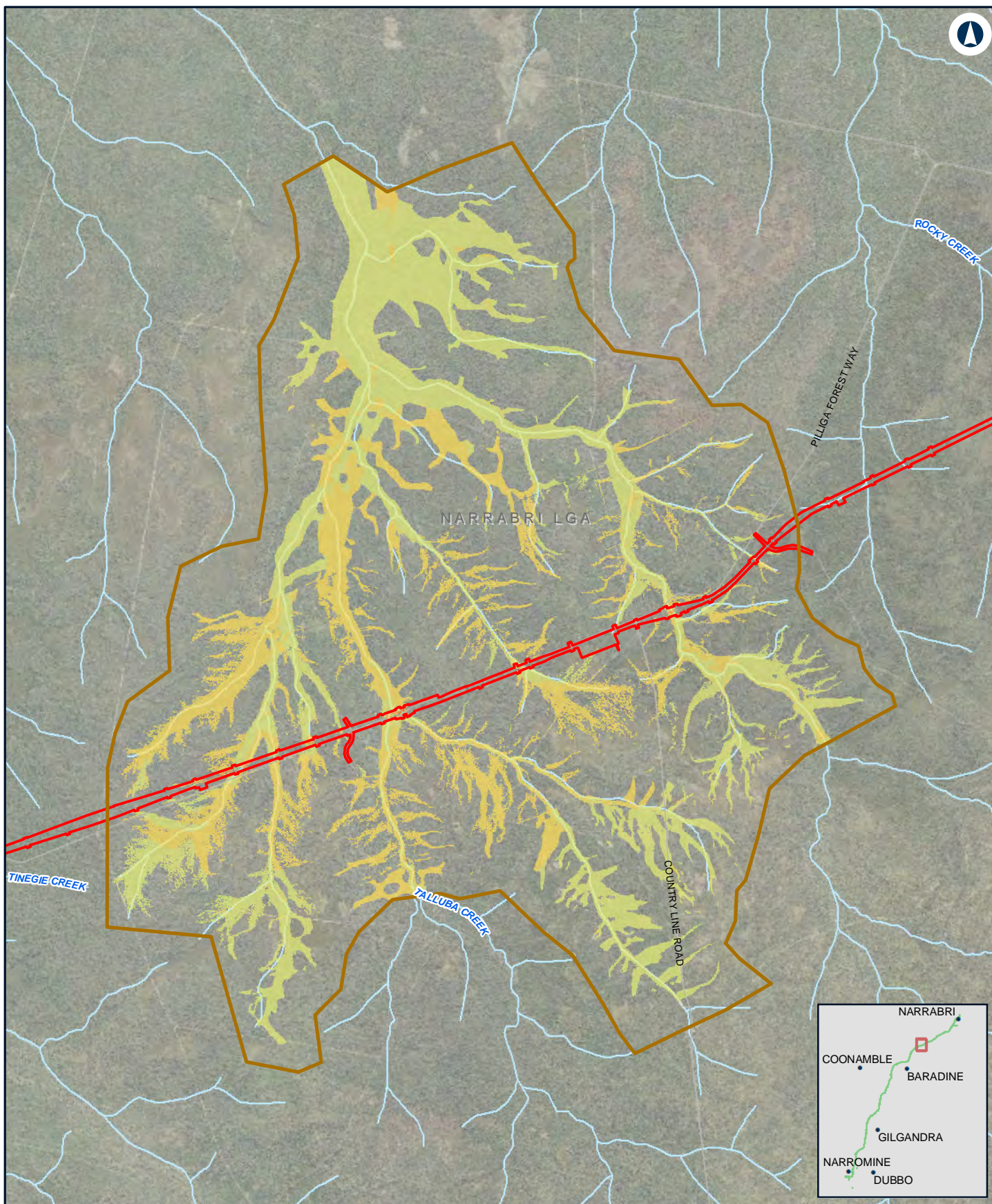
  0.1 m/s - 0.5 m/s increase

  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 2.7j

0 1 2 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020  
Author: JacobsGHD

Paper: A4  
Scale: 1:70,000

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

### LEGEND

  The proposal site

  Model boundary

### 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

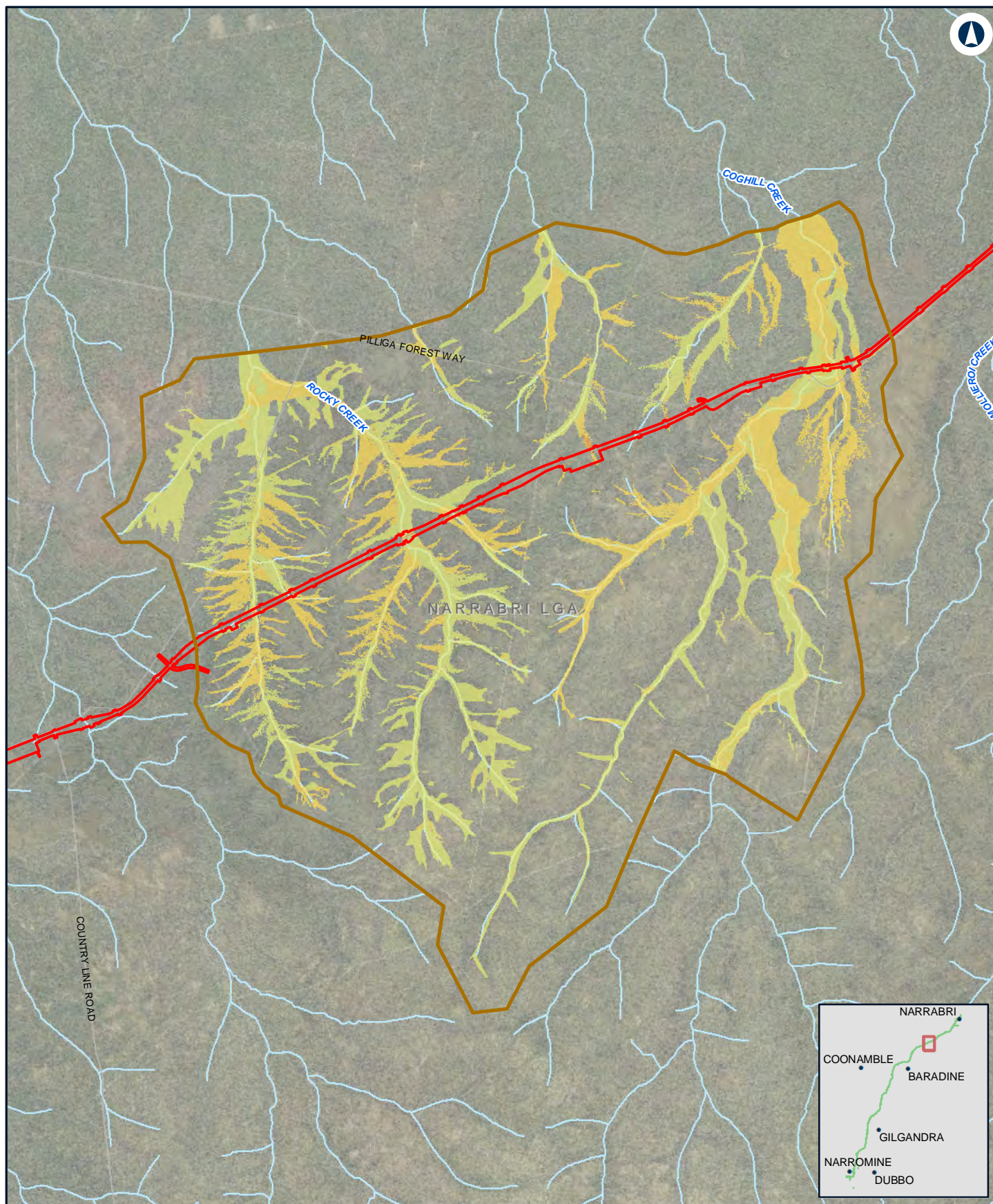
0.1 m/s - 0.5 m/s increase

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 2.7k

0 1 2 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020  
Author: JacobsGHD

Paper: A4  
Scale: 1:80,000

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

### LEGEND

  The proposal site

  Model boundary

### 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

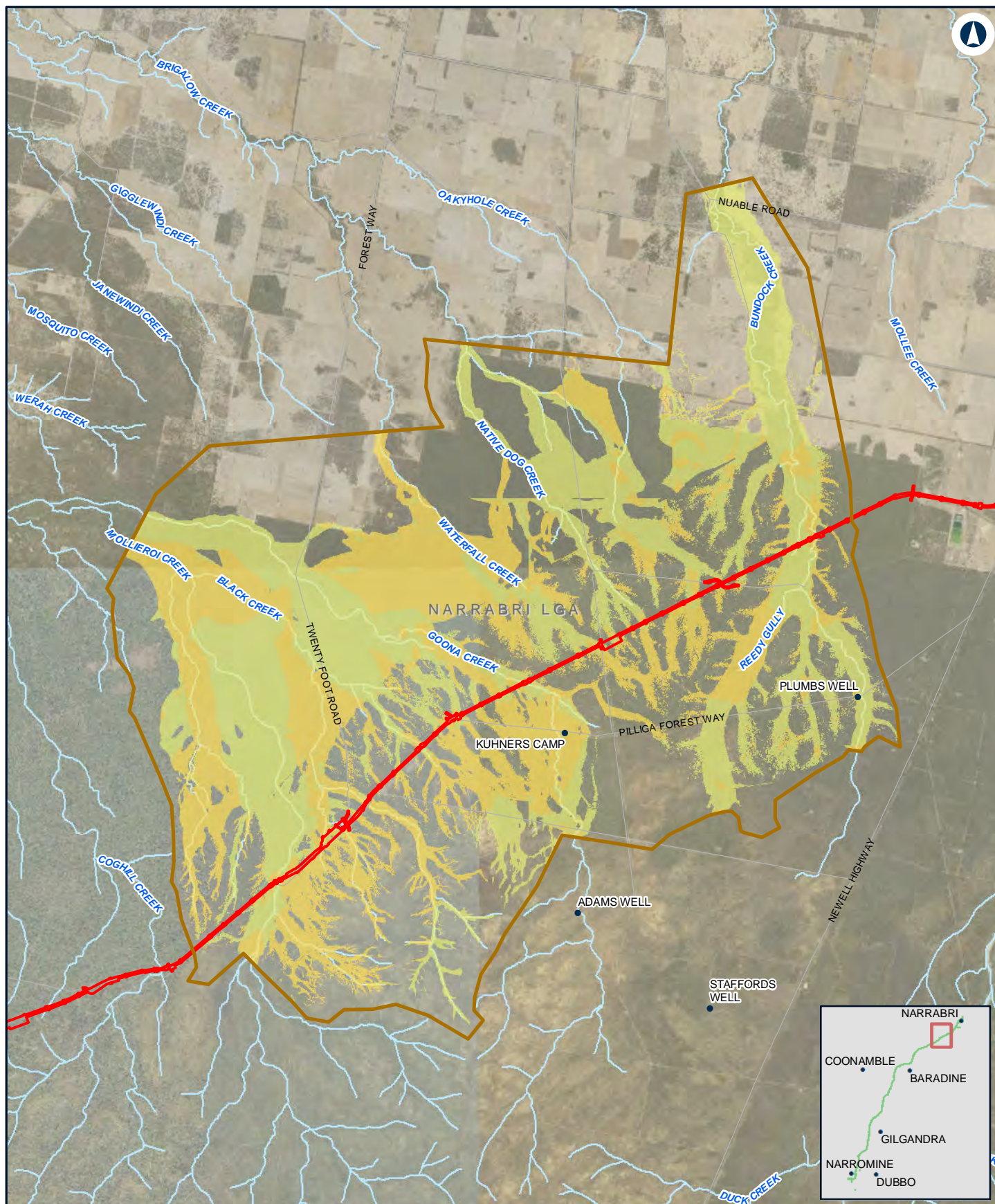
  0.1 m/s - 0.5 m/s increase

  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 - N2N23

Appendix G Figure 2.71

0 1.5 3 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020  
Author: JacobsGHD

Paper: A4  
Scale: 1:140,000

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

### LEGEND

- The proposal site
- Model boundary

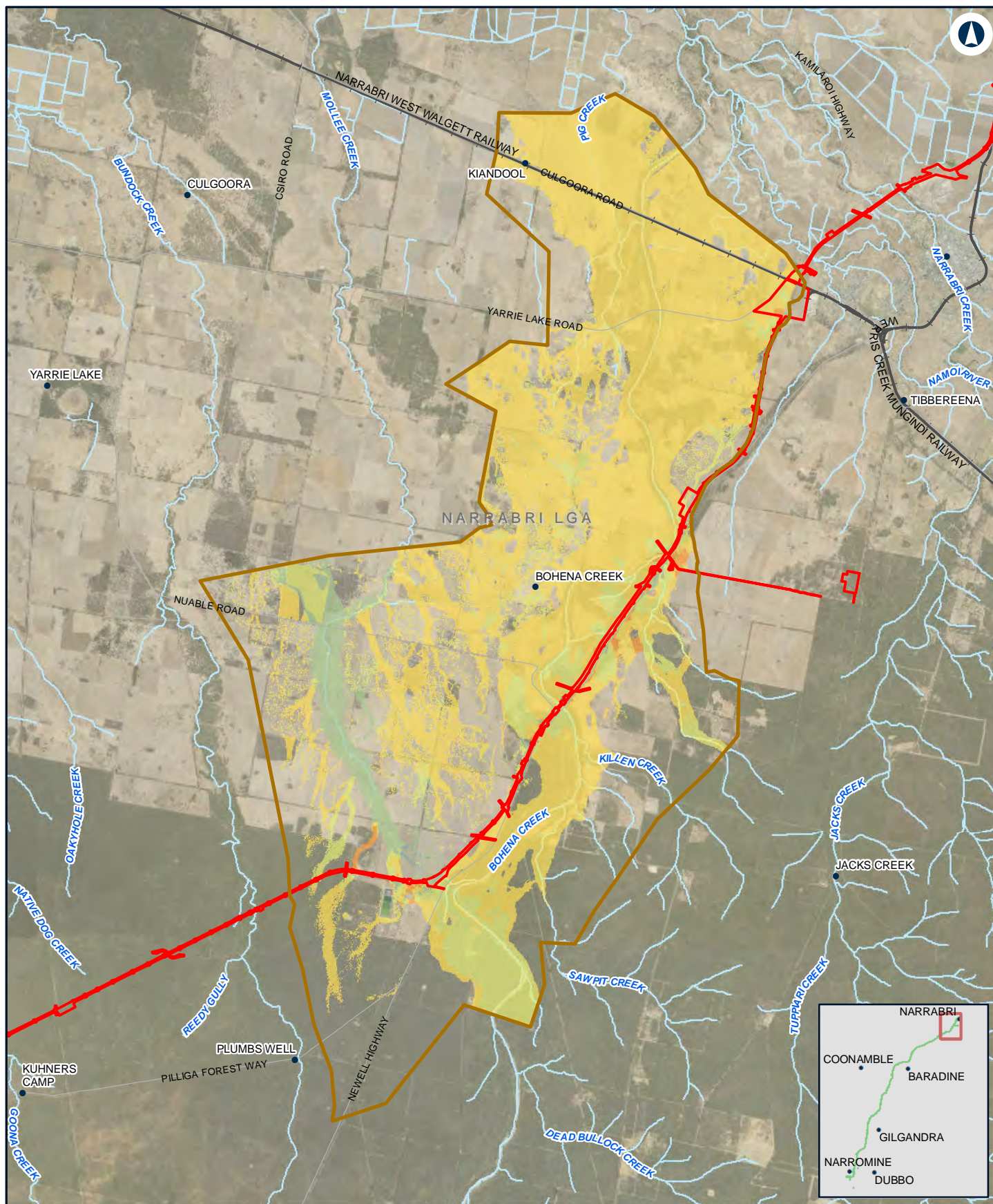
### Change in Flood Velocity

- > 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 - 0.2% AEP - N2N1

Appendix G Figure 2.7m

0 2 4 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020  
Author: JacobsGHD

Paper: A4  
Scale: 1:150,000

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

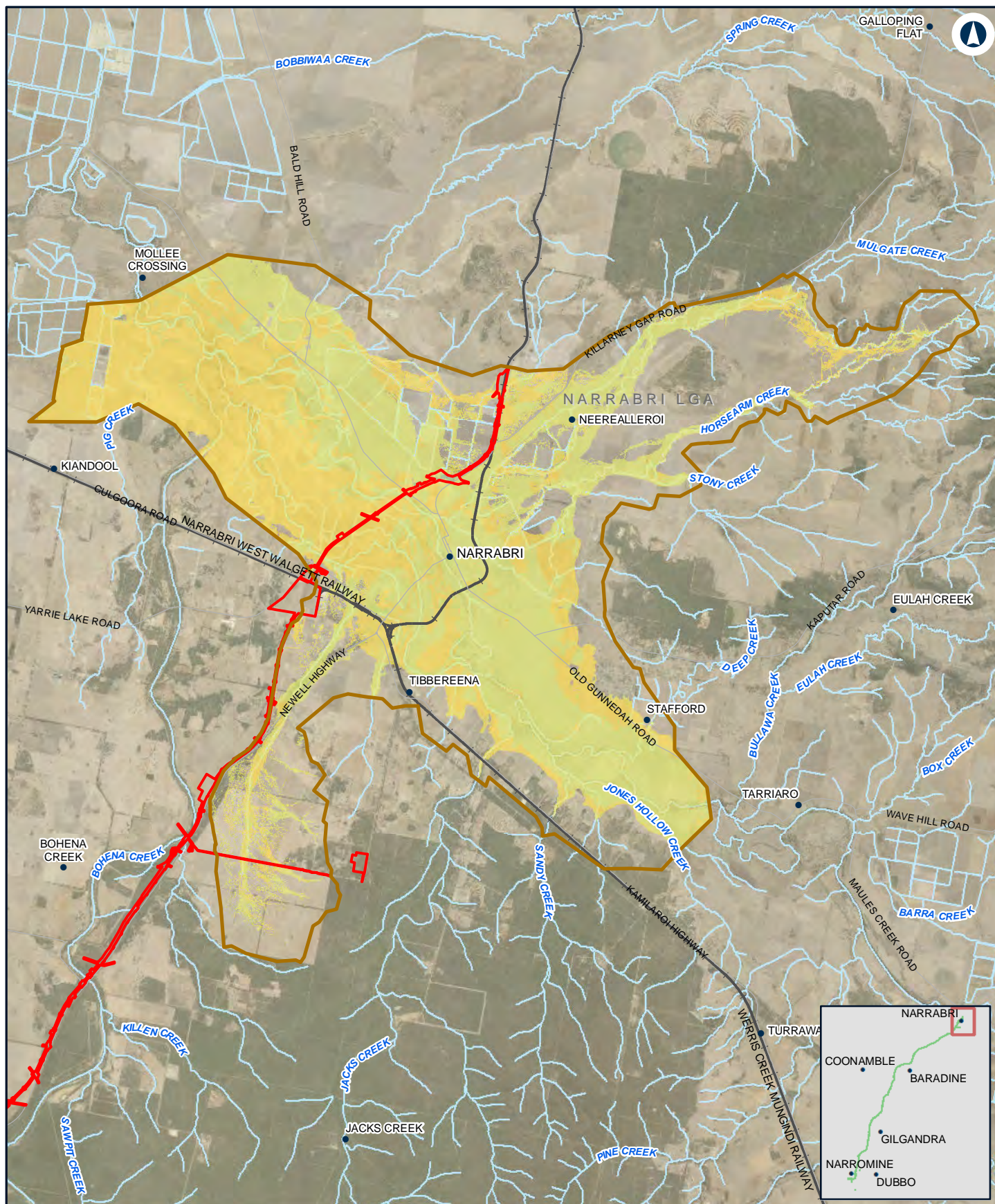
  0.1 m/s - 0.5 m/s increase

  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 - Narrabri

Appendix G Figure 2.7n

0 2 4  
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:160,000

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

### LEGEND

  The proposal site

  Model boundary

#### 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

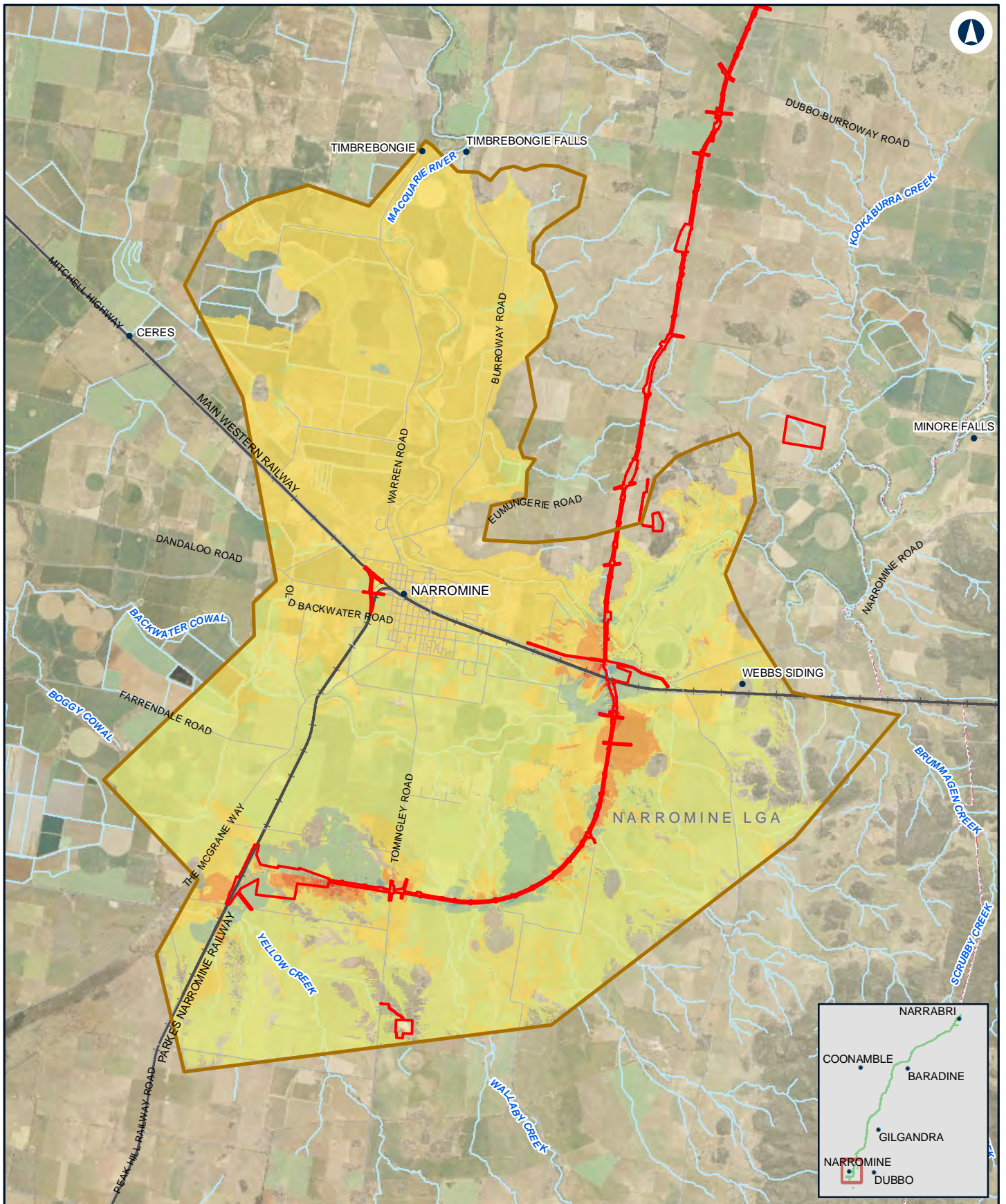
  0.1 m/s - 0.5 m/s increase

  0.5 m/s - 1 m/s increase

  > 1 m/s increase

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## NARROMINE TO NARRABRI

## Change in velocity - PMF - NFM

Appendix G - Figure 2.8a

0 1.5 3 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020  
Author: JacobsGHD

Paper: A4  
Scale: 1:140,000

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

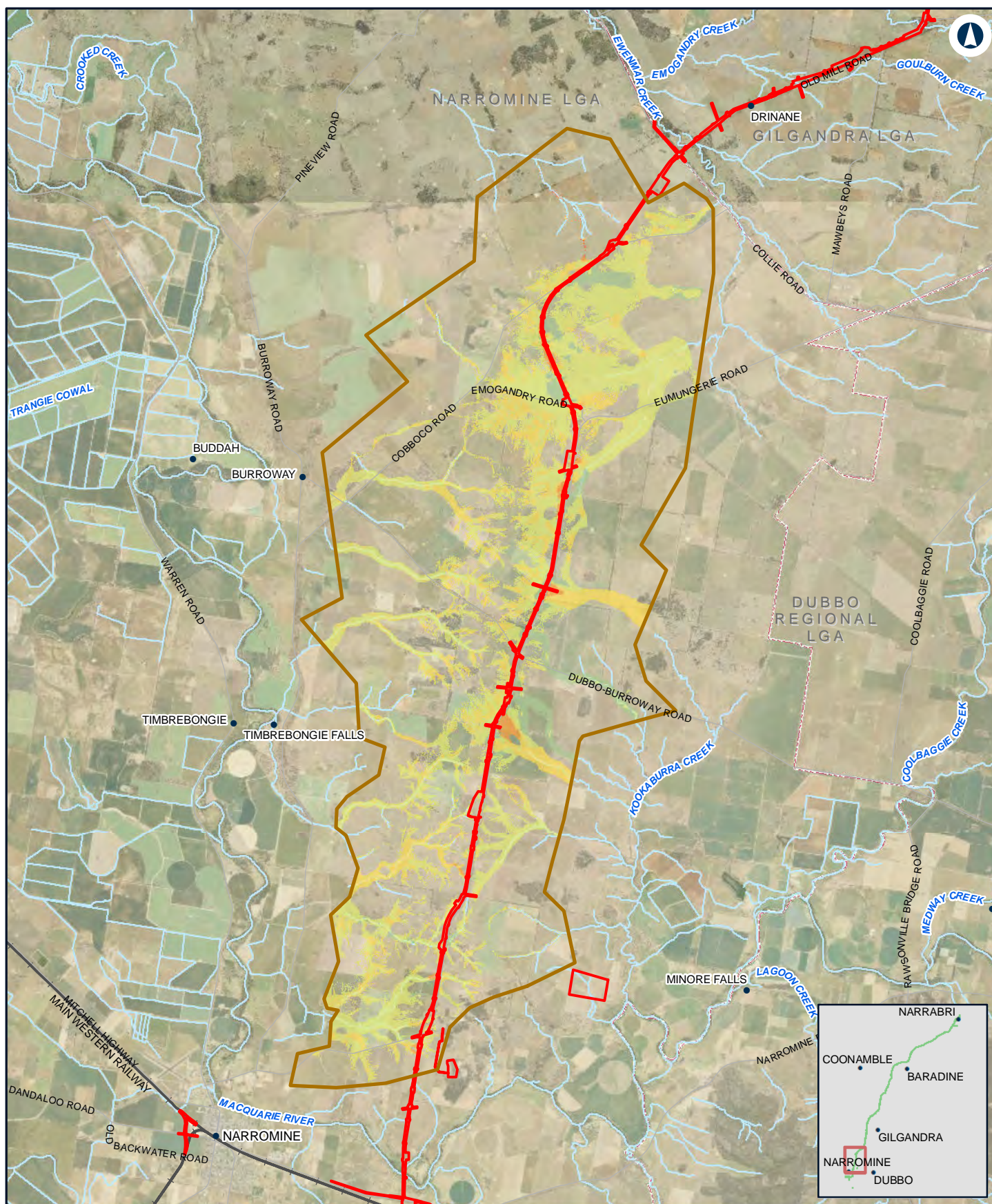
  0.1 m/s - 0.5 m/s increase

  0.5 m/s - 1 m/s increase

  > 1 m/s increase

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## NARROMINE TO NARRABRI

Change in velocity - PMF - N2N14

Appendix G - Figure 2.8b

0 2 4 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020  
Author: JacobsGHD

Paper: A4  
Scale: 1:150,000

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

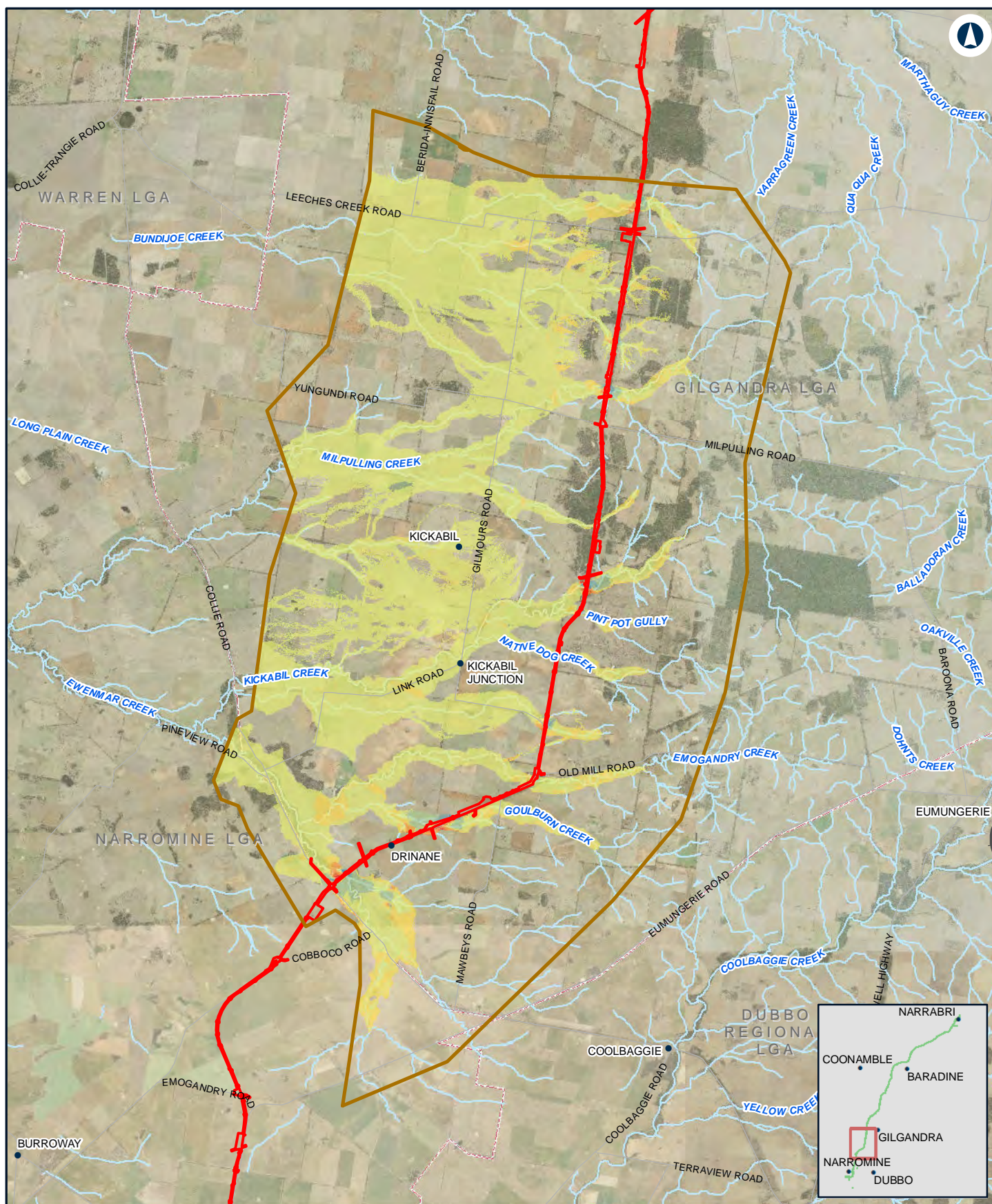
0.1 m/s - 0.5 m/s increase

0.5 m/s - 1 m/s increase

> 1 m/s increase

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## NARROMINE TO NARRABRI

Change in velocity - PMF - N2N13

Appendix G - Figure 2.8c

0 2.5 5 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:180,000

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

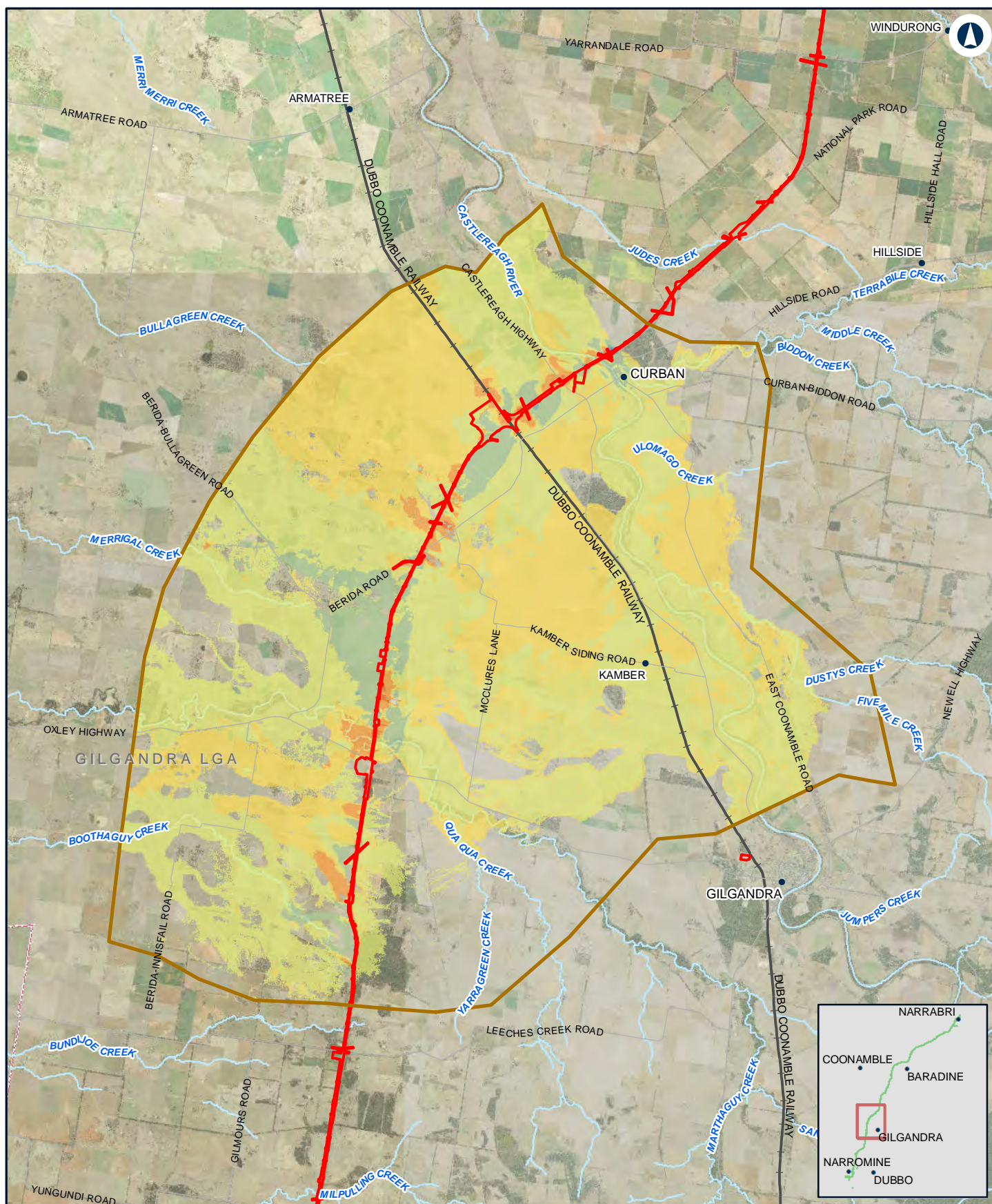
  0.1 m/s - 0.5 m/s increase

  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 2.8d

0 2.5 5 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:200,000

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

### LEGEND

  The proposal site

  Model boundary

### 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

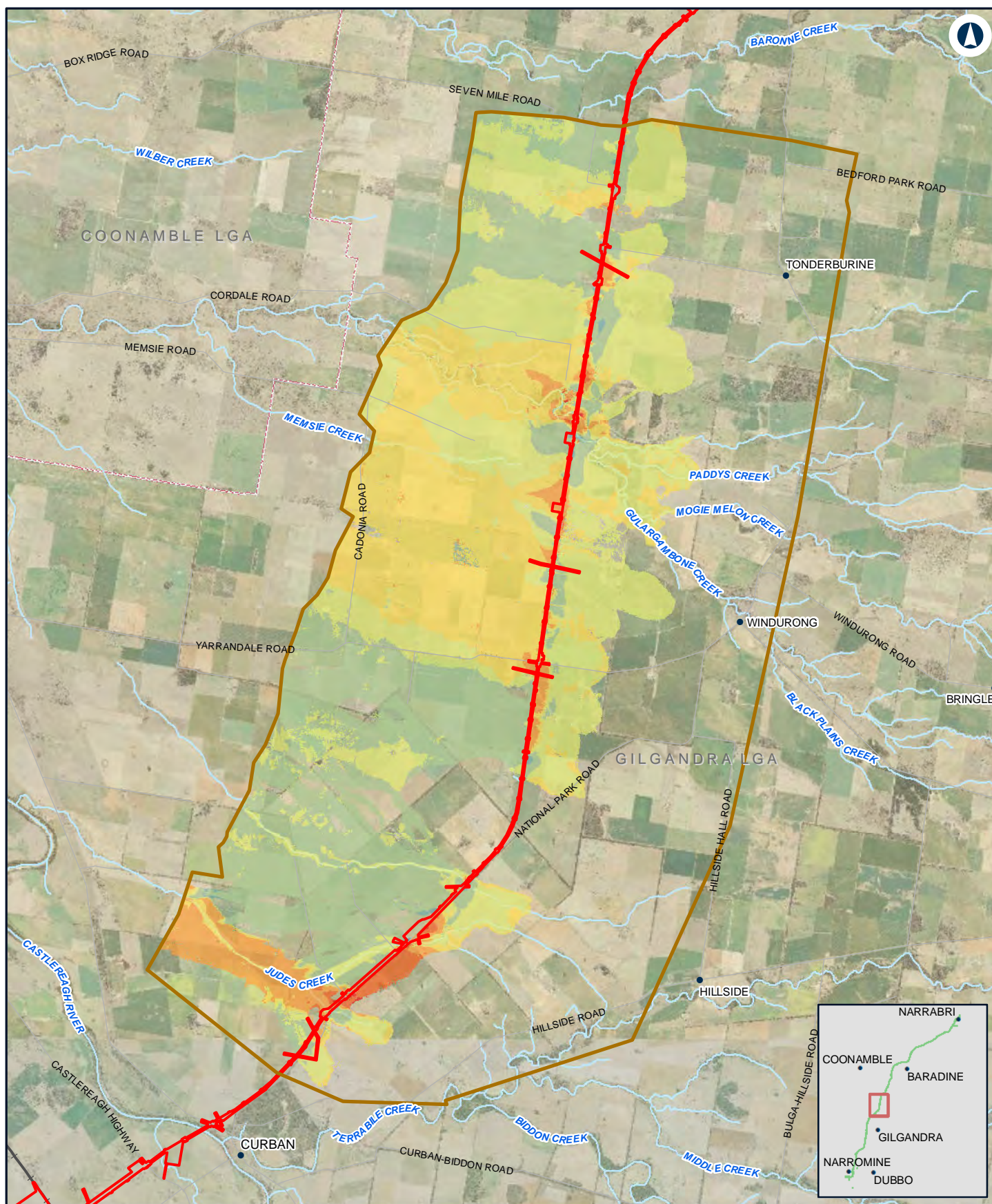
  0.1 m/s - 0.5 m/s increase

  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 2.8e

0 1.5 3  
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020  
Author: JacobsGHD

Paper: A4  
Scale: 1:130,000

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

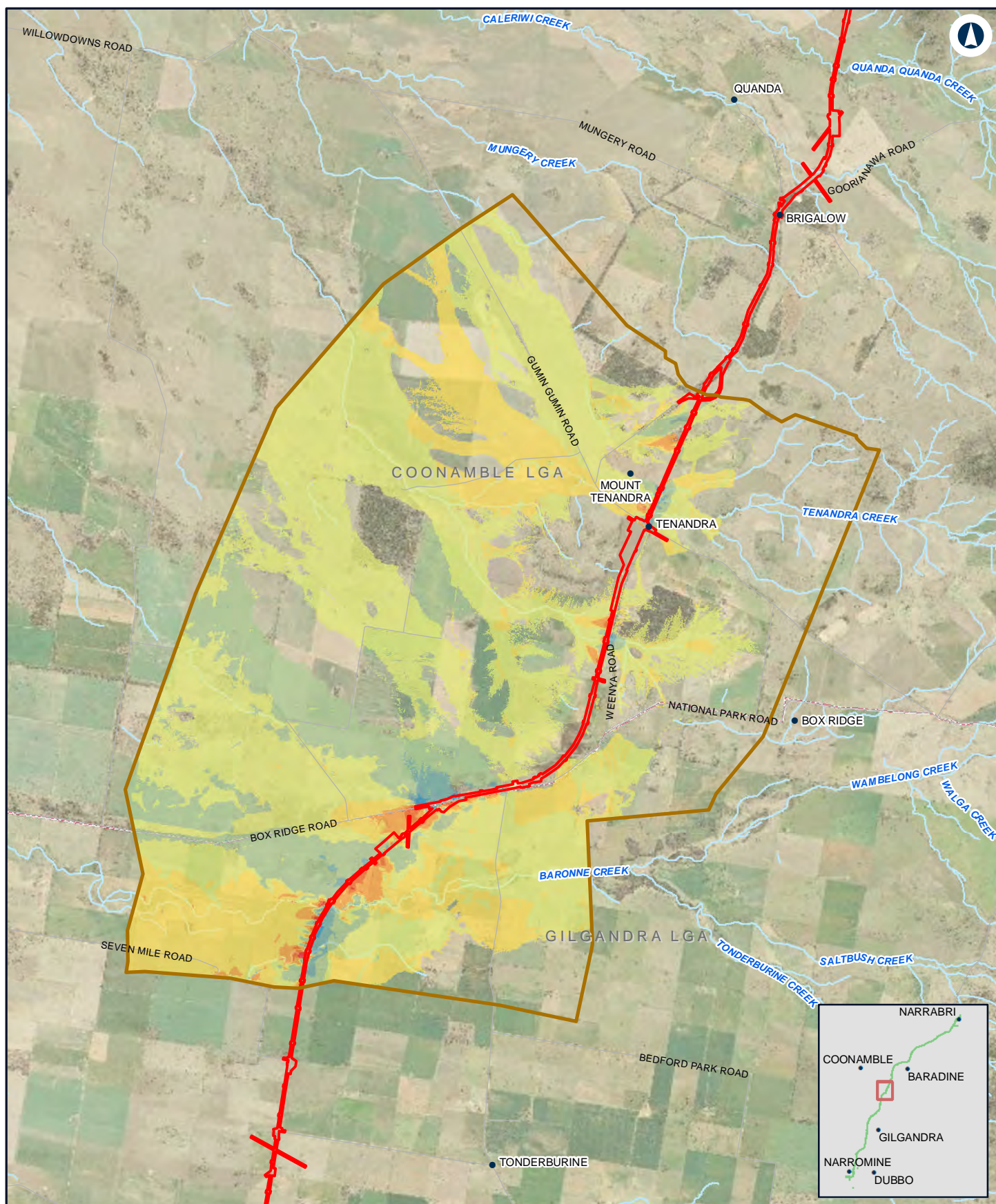
  0.1 m/s - 0.5 m/s increase

  0.5 m/s - 1 m/s increase

  > 1 m/s increase

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## NARROMINE TO NARRABRI

Change in velocity - PMF - N2N9

Appendix G - Figure 2.8f

0 1.5 3 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020  
Author: JacobsGHD

Paper: A4  
Scale: 1:110,000

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

### LEGEND

- The proposal site
- Model boundary

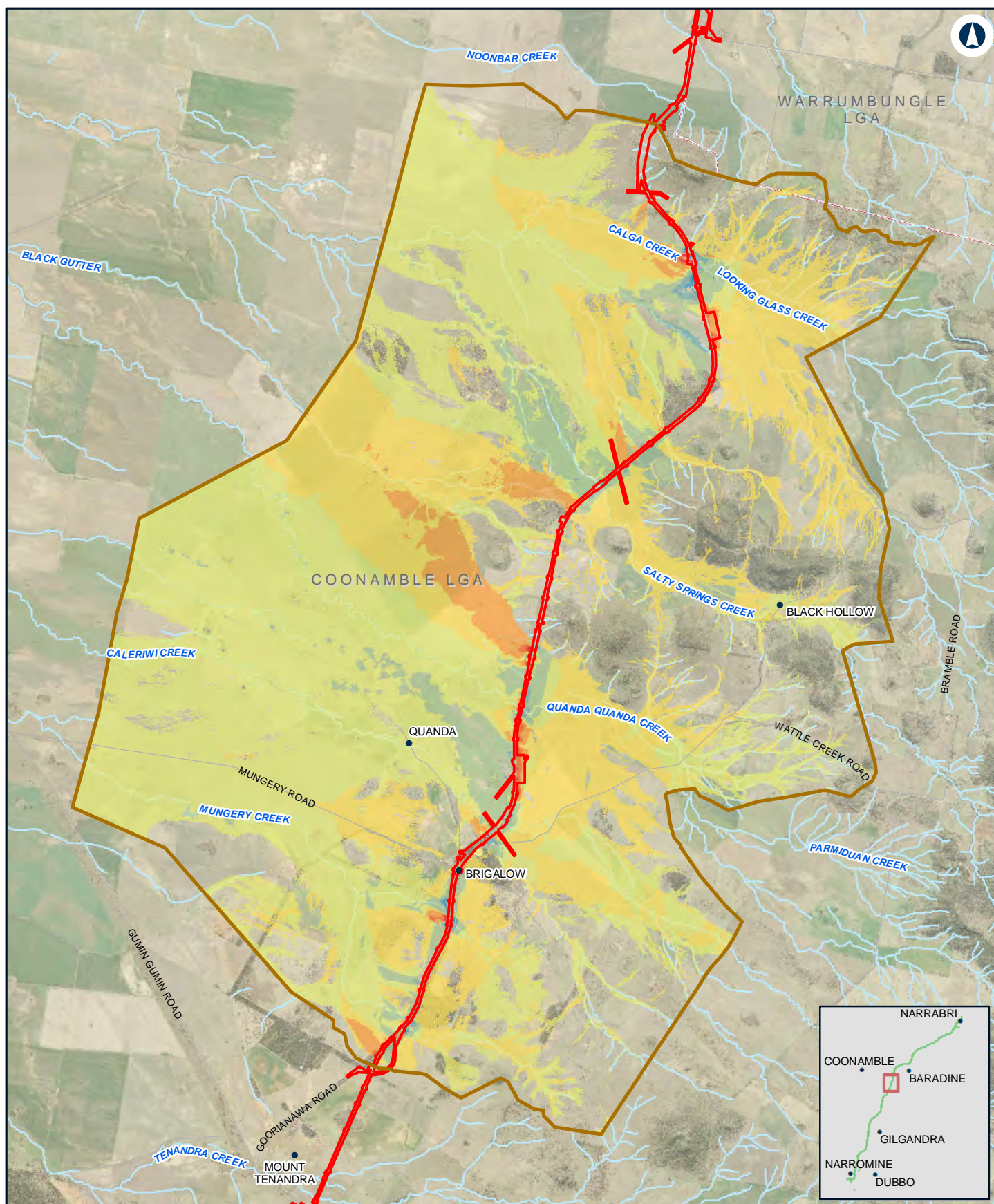
### Change in Flood Velocity

- > 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 2.8g

0 1 2 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020  
Author: JacobsGHD

Paper: A4  
Scale: 1:100,000

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

### LEGEND

  The proposal site

  Model boundary

### 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

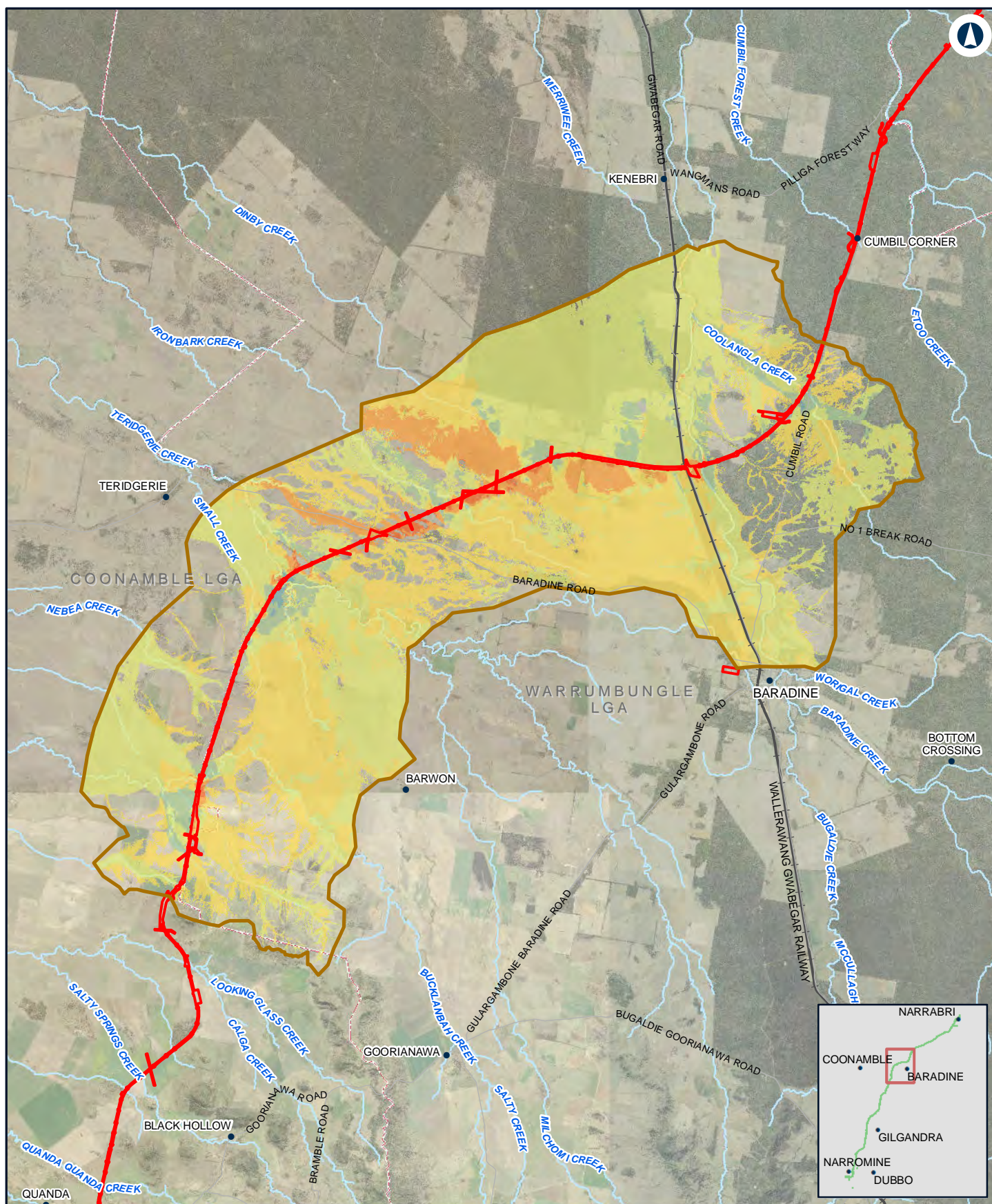
  0.1 m/s - 0.5 m/s increase

  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 2.8h

0 2.5 5  
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:200,000

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

### LEGEND

  The proposal site

  Model boundary

### 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

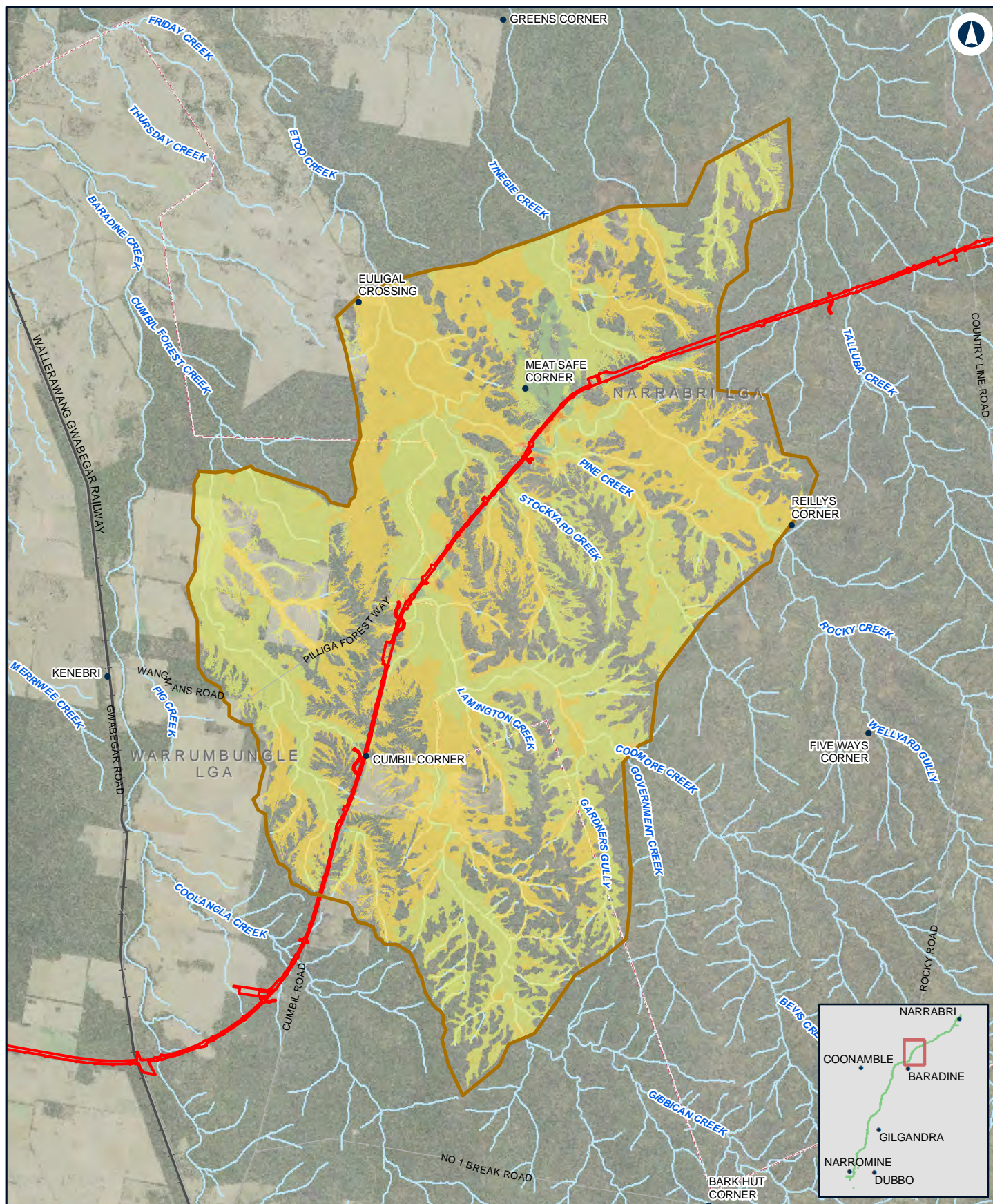
  0.1 m/s - 0.5 m/s increase

  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 2.8i

0 2 4  
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:150,000

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

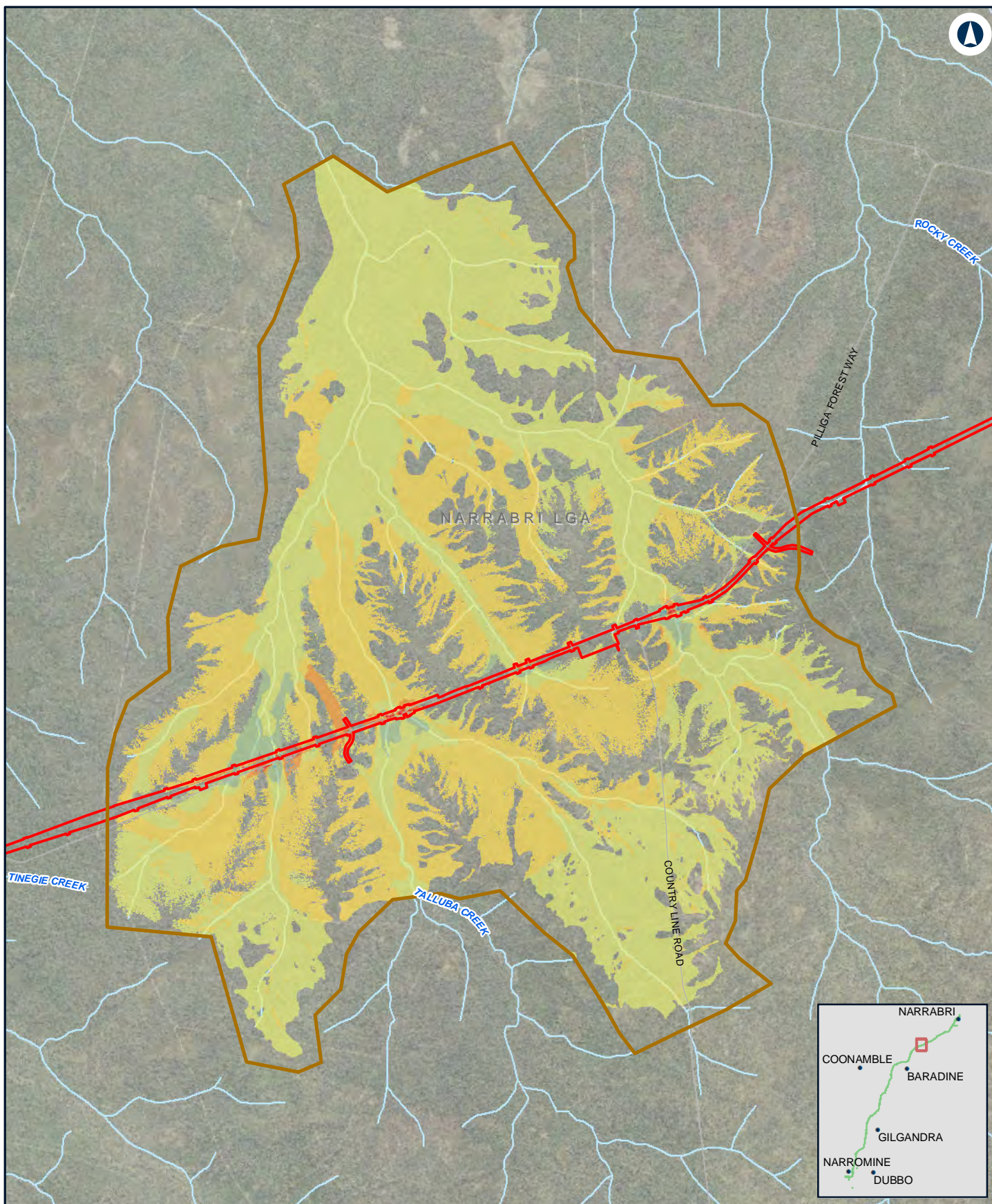
  0.5 m/s - 1 m/s increase

  > 1 m/s increase

**INLAND  
RAIL**

**ARTC**

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## NARROMINE TO NARRABRI

Change in velocity - PMF - N2N5

Appendix G - Figure 2.8j

0 1 2 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020  
Author: JacobsGHD

Paper: A4  
Scale: 1:70,000

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

### LEGEND

  The proposal site

  Model boundary

### 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

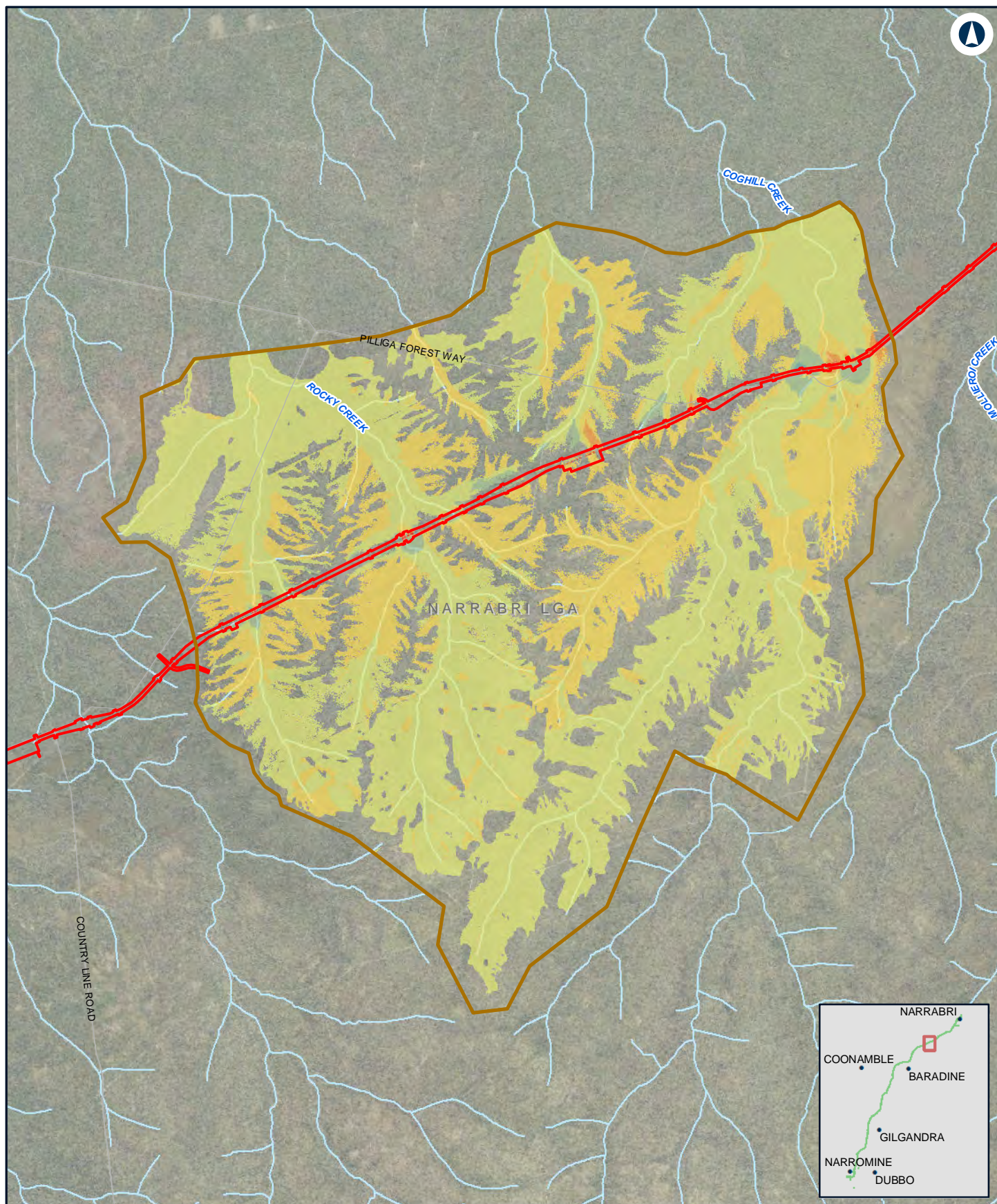
  0.5 m/s - 1 m/s increase

  > 1 m/s increase

**INLAND  
RAIL**

**ARTC**

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## NARROMINE TO NARRABRI

Change in velocity - PMF - N2N4

Appendix G - Figure 2.8k

0 1 2 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020  
Author: JacobsGHD

Paper: A4  
Scale: 1:80,000

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

### LEGEND

  The proposal site

  Model boundary

### 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

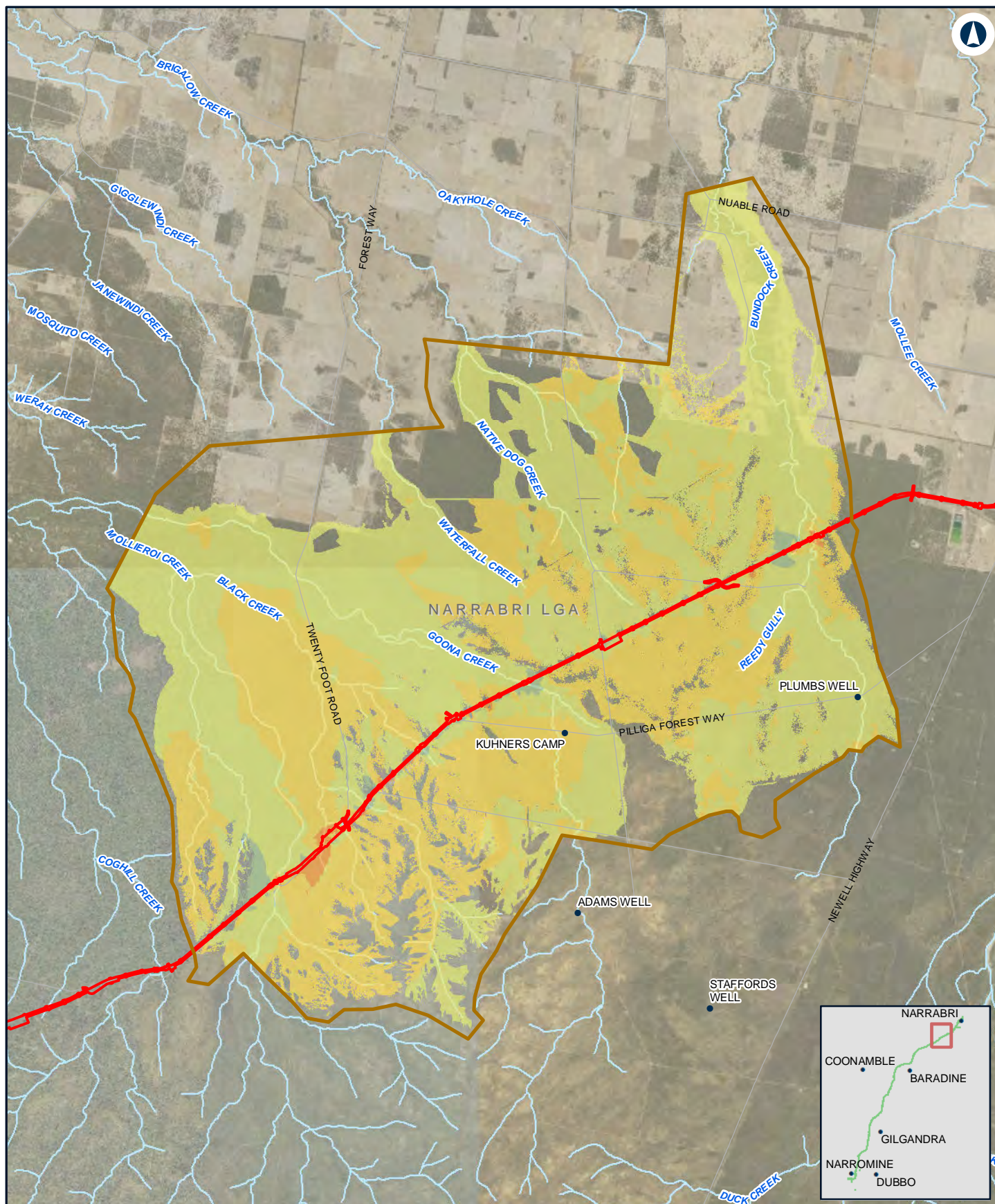
0.1 m/s - 0.5 m/s increase

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 2.8I

0 1.5 3 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:140,000

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

### LEGEND

The proposal site

Model boundary

### 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

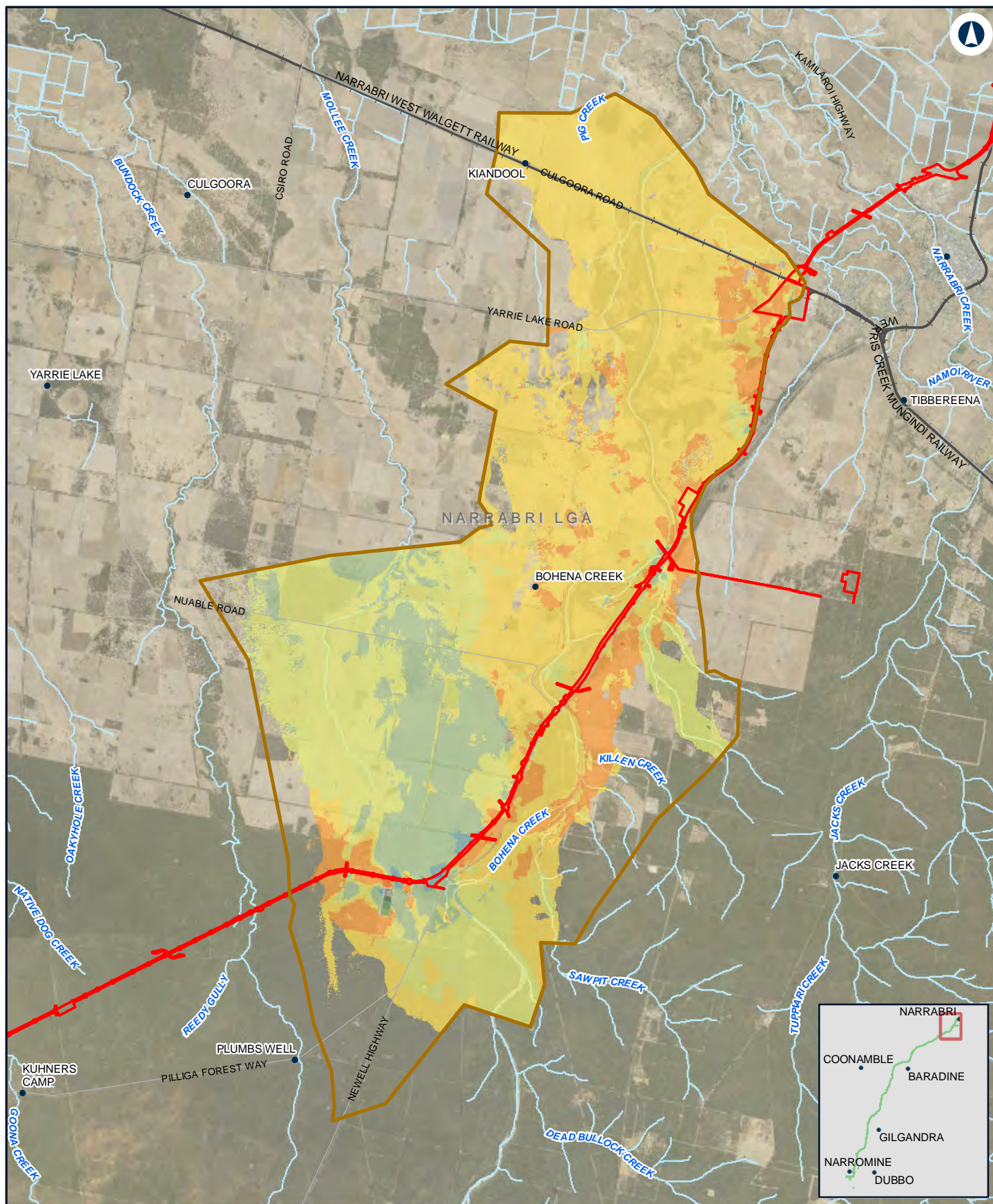
0.1 m/s - 0.5 m/s increase

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

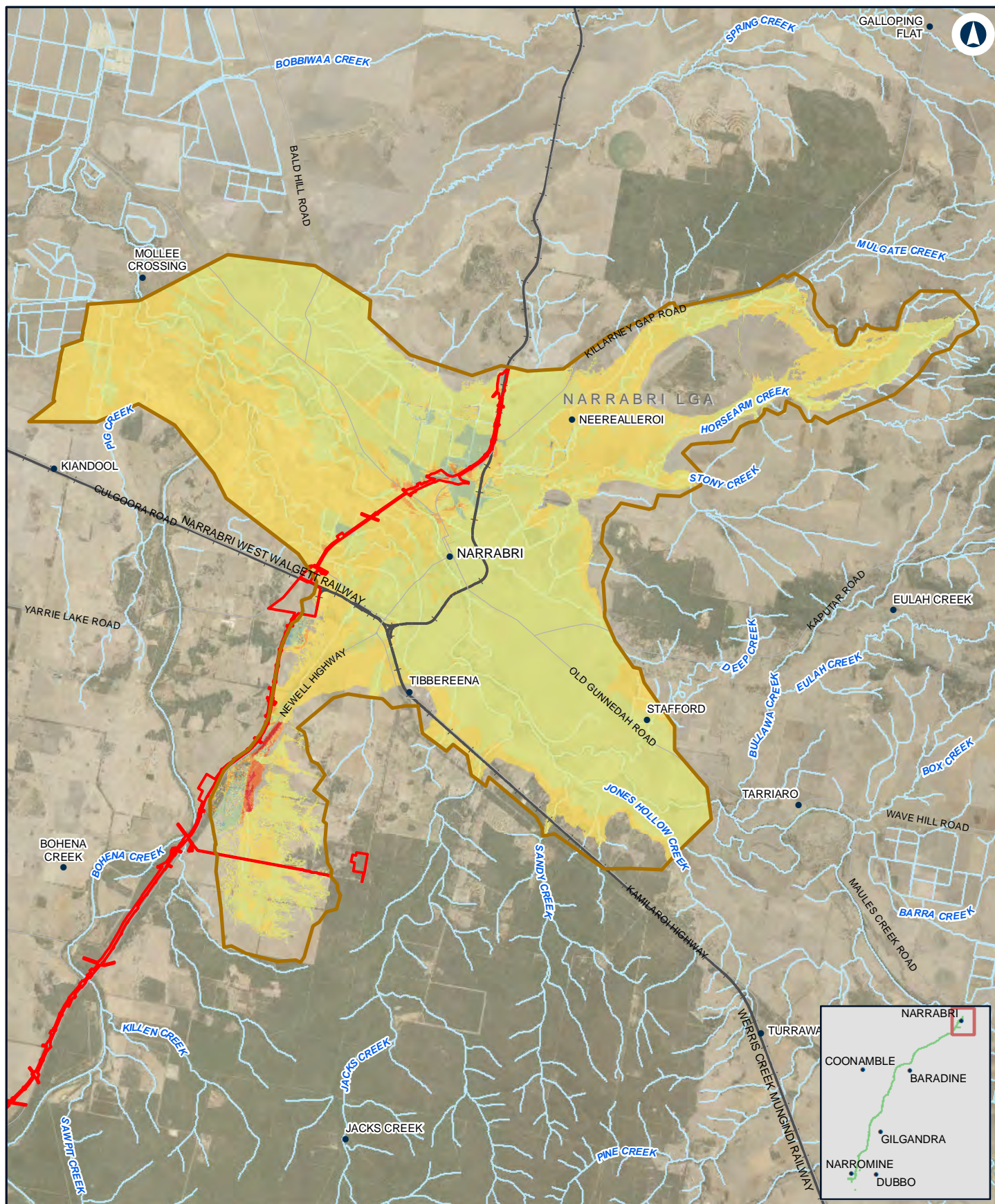
ARTC makes no representation or warranty and assumes no duty of care or other responsibility to any party as to the completeness, accuracy or suitability of the information contained in this GIS map. The GIS map has been prepared from material provided to ARTC by an external source and ARTC has not taken 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: 27/10/2020  
Author: JacobsGHD

Paper: A4  
Scale: 1:150,000

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



## Narromine to Narrabri

## Change in velocity - PMF - Narrabri

Appendix G - Figure 2.8n

0 2 4  
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:160,000

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

### LEGEND

  The proposal site

  Model boundary

### 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

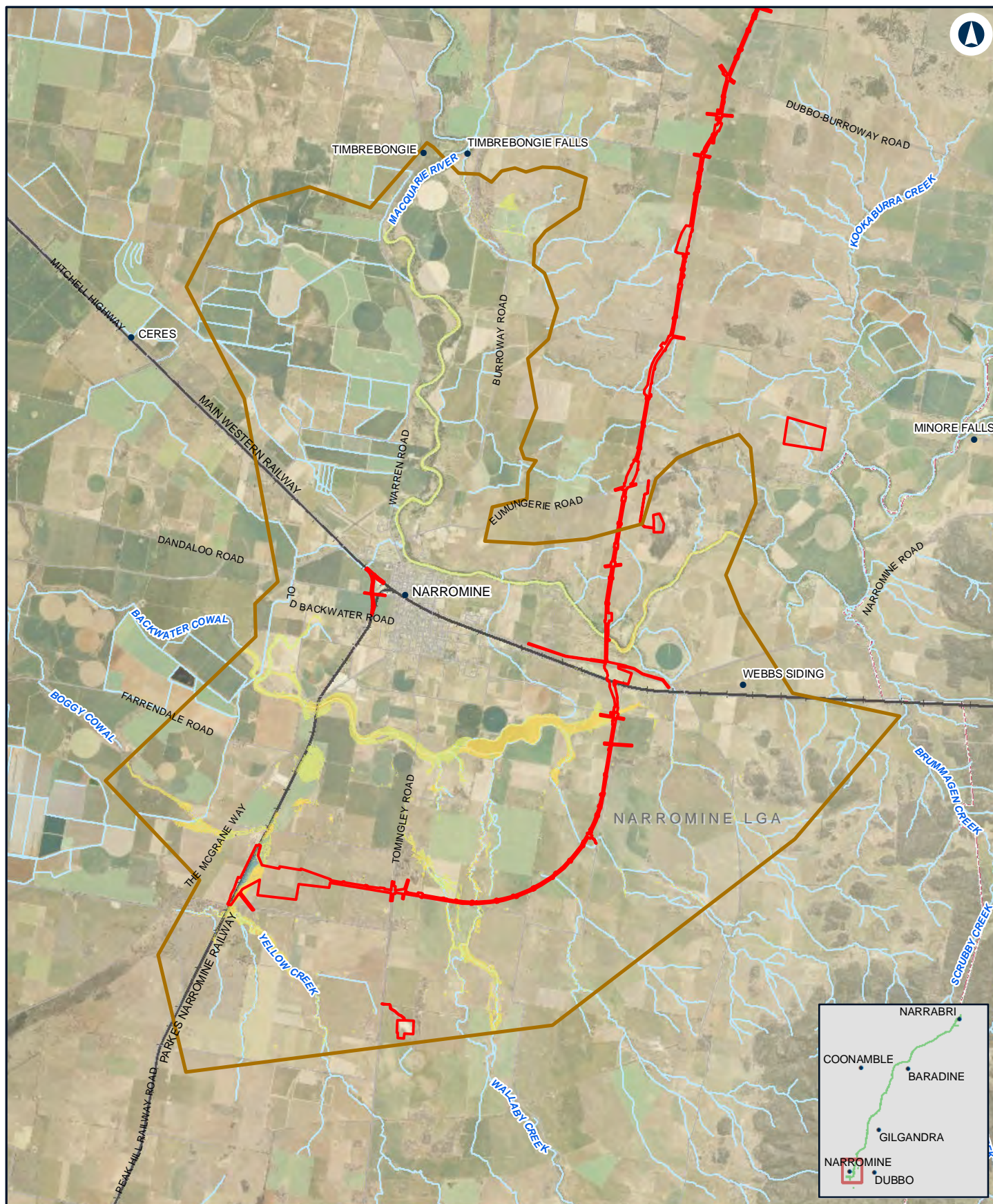
  0.1 m/s - 0.5 m/s increase

  0.5 m/s - 1 m/s increase

  > 1 m/s increase

**INLAND RAIL** **ARTC**

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0 1.5 3 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:140,000

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

#### LEGEND

  The proposal site

  Model boundary

#### Duration Change

  > 24 hr decrease

  12 hr - 24 hr decrease

  6 hr - 12 hr decrease

  3 hr - 6 hr decrease

  0 hr - 3 hr decrease

  0 hr - 3 hr increase

  3 hr - 6 hr increase

  6 hr - 12 hr increase

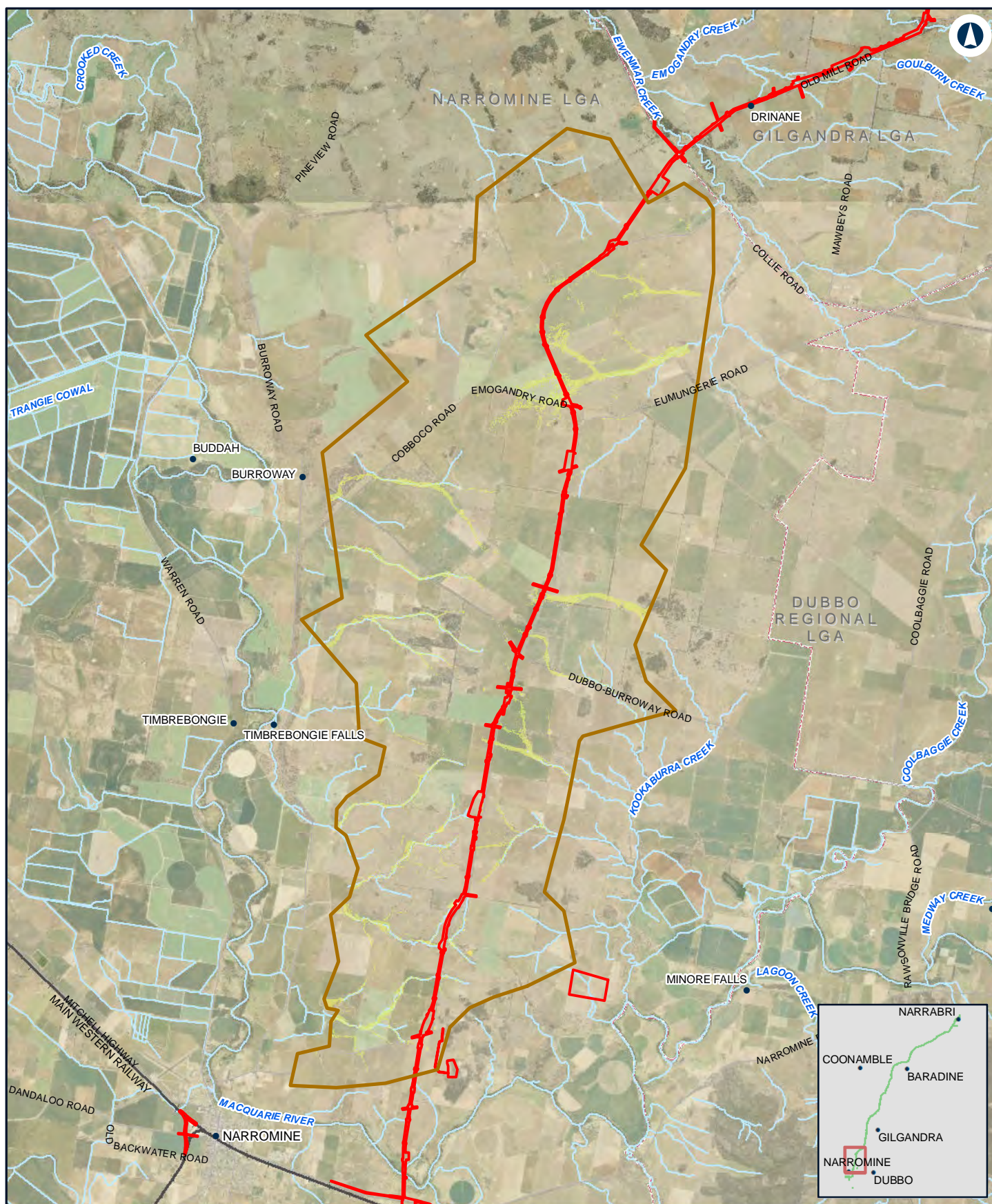
  12 hr - 24 hr increase

  > 24 hr increase

**INLAND  
RAIL**

**ARTC**

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0 2 4 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:150,000

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

#### LEGEND

The proposal site

Model boundary

#### Duration Change

> 24 hr decrease

12 hr - 24 hr decrease

6 hr - 12 hr decrease

3 hr - 6 hr decrease

0 hr - 3 hr decrease

0 hr - 3 hr increase

3 hr - 6 hr increase

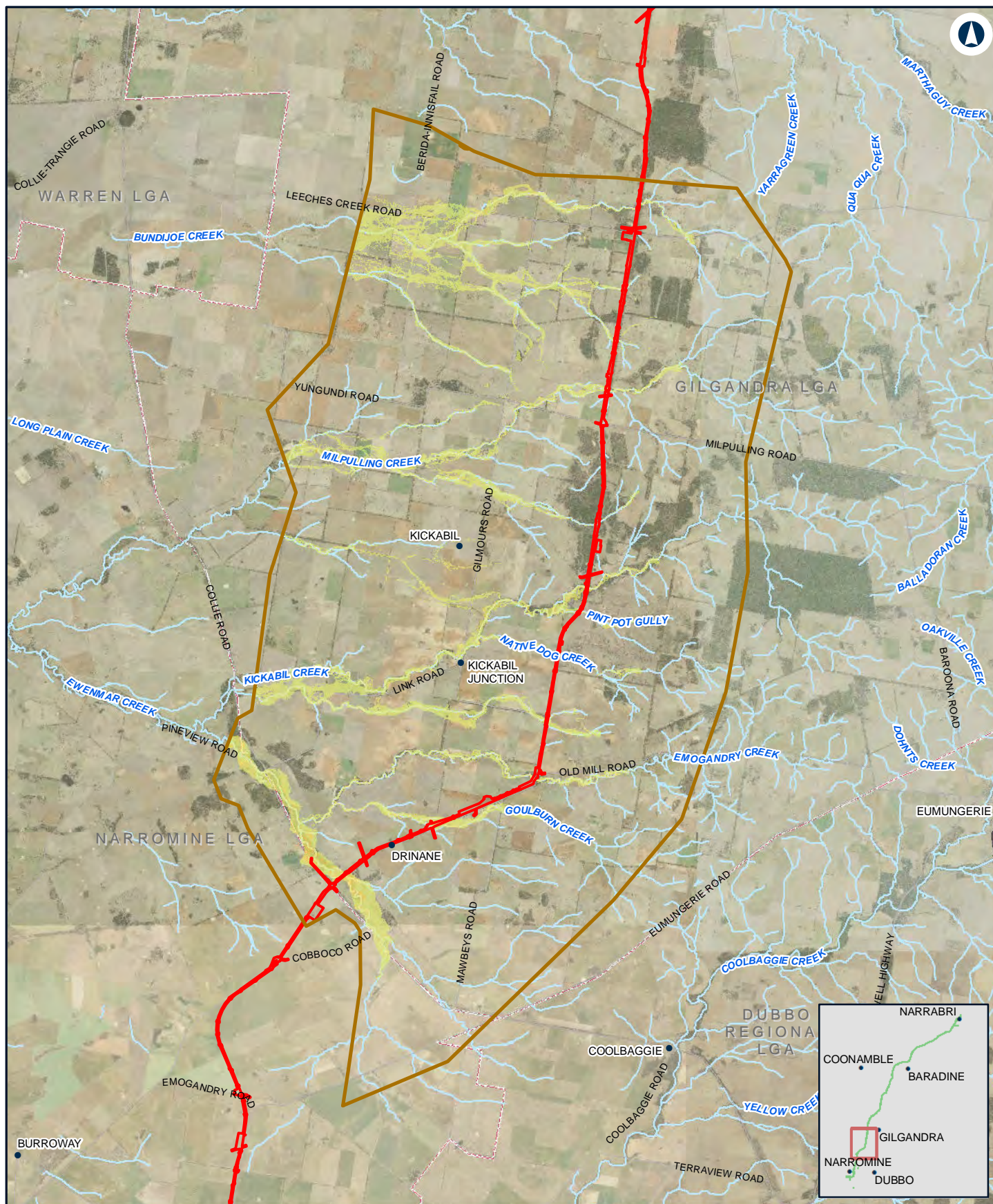
6 hr - 12 hr increase

12 hr - 24 hr increase

> 24 hr increase

**INLAND RAIL** **ARTC**

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## NARROMINE TO NARRABRI

Change in duration - 20% AEP - N2N13

Appendix G - Figure 3.1c

0 2.5 5 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:180,000

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

### LEGEND

The proposal site

Model boundary

#### Duration Change

> 24 hr decrease

12 hr - 24 hr decrease

6 hr - 12 hr decrease

3 hr - 6 hr decrease

0 hr - 3 hr decrease

0 hr - 3 hr increase

3 hr - 6 hr increase

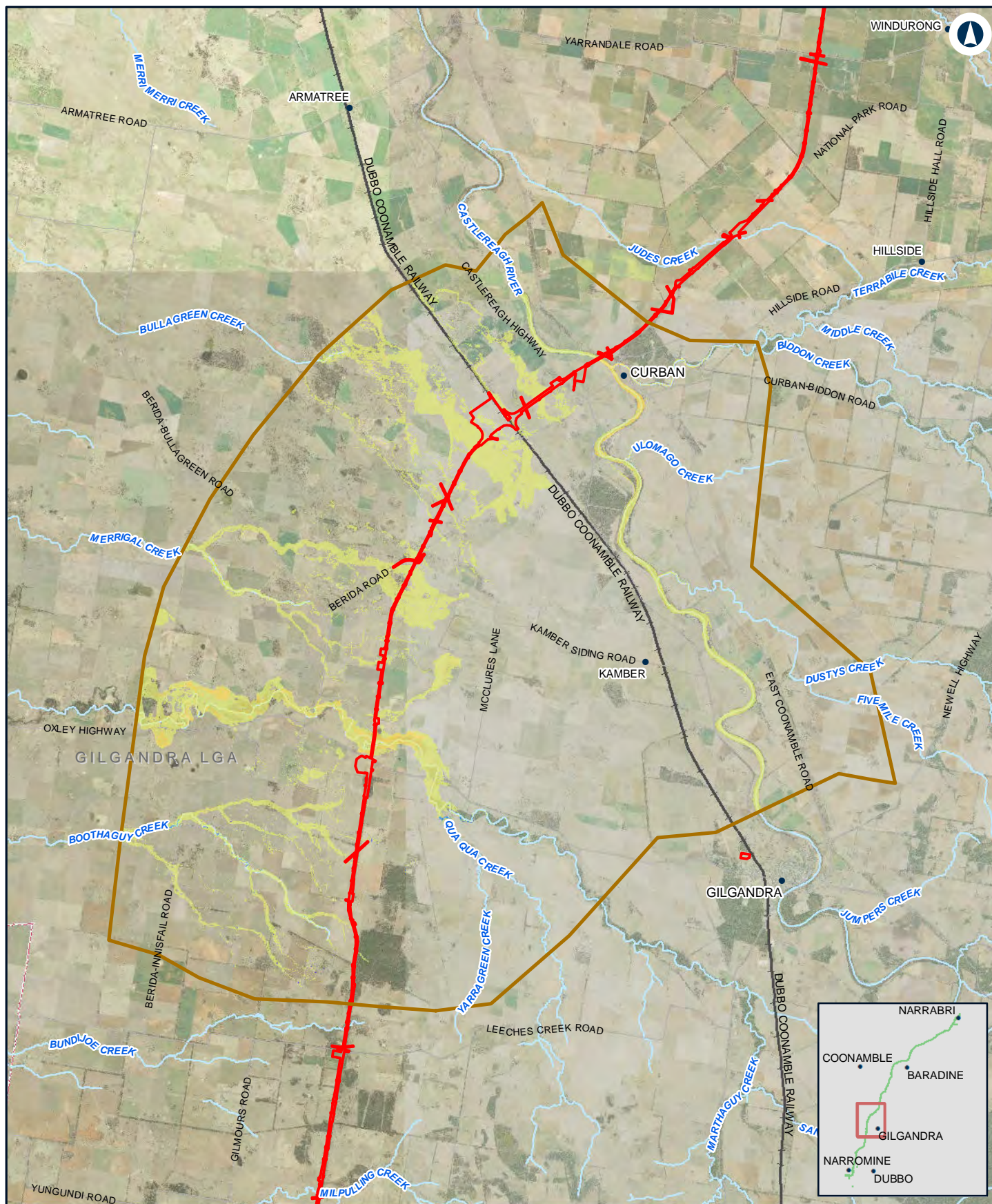
6 hr - 12 hr increase

12 hr - 24 hr increase

> 24 hr increase

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## NARROMINE TO NARRABRI

Change in duration - 20% AEP - N2N11N12

Appendix G - Figure 3.1d

0 2.5 5  
Km

Coordinate System: GDA 1994 MGA Zone 55

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

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

### LEGEND

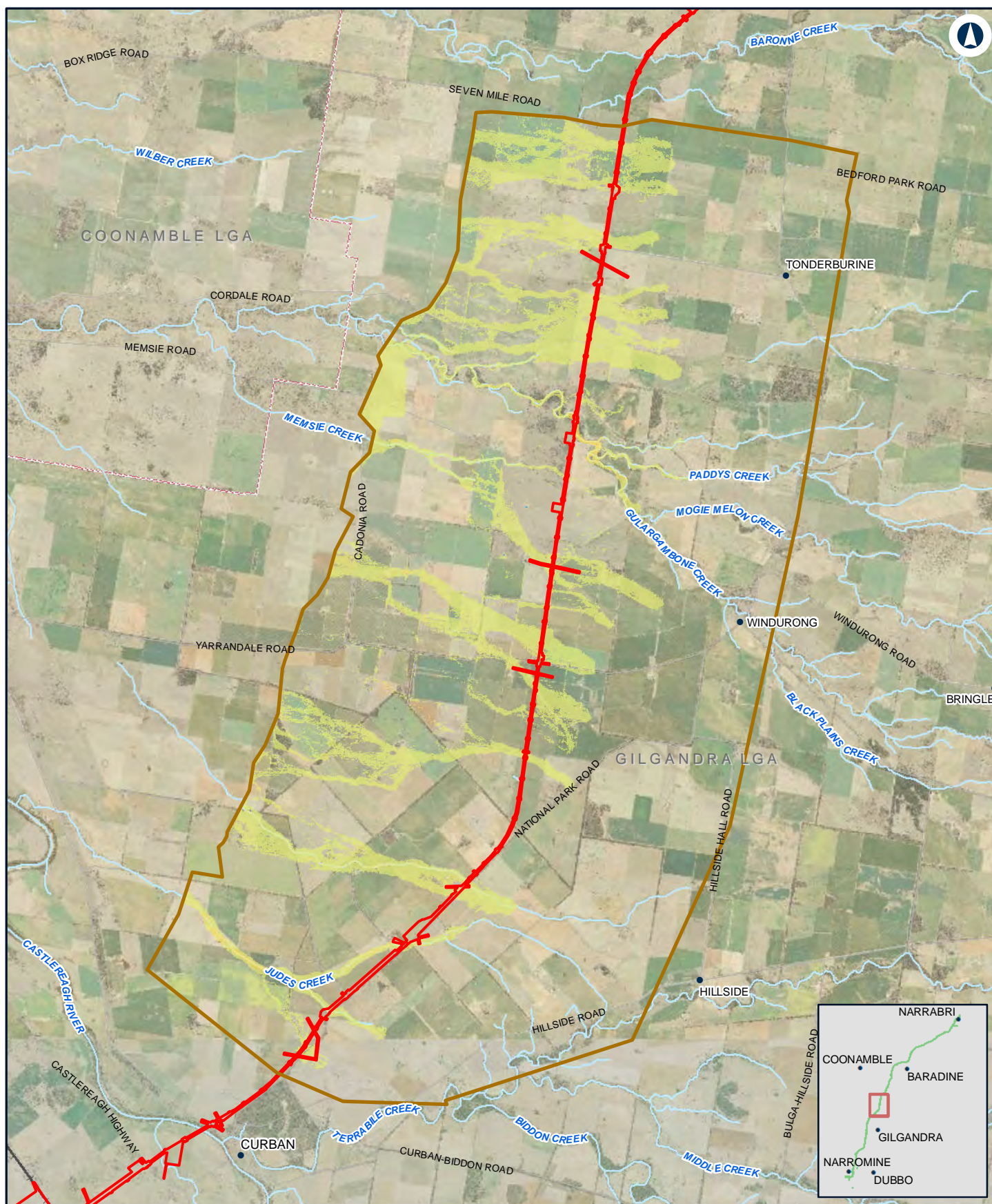
- The proposal site
- Model boundary

### Duration Change

- |  |  |
|--|--|
| <span style="background-color: #e0f0ff; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> > 24 hr decrease       | <span style="background-color: #ffe0e0; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> 0 hr - 3 hr decrease   |
| <span style="background-color: #e0ffe0; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> 12 hr - 24 hr decrease | <span style="background-color: #fff0e0; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> 0 hr - 3 hr increase   |
| <span style="background-color: #e0e0ff; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> 6 hr - 12 hr decrease  | <span style="background-color: #ffe0ff; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> 3 hr - 6 hr increase   |
| <span style="background-color: #e0ffe0; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> 3 hr - 6 hr decrease   | <span style="background-color: #ff0000; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> 6 hr - 12 hr increase  |
|  | <span style="background-color: #ff00ff; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> 12 hr - 24 hr increase |
|  | <span style="background-color: #ff00ff; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> > 24 hr increase       |

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## NARROMINE TO NARRABRI

Change in duration - 20% AEP - N2N10

Appendix G - Figure 3.1e

0 1.5 3  
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:130,000

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

### LEGEND

The proposal site

Model boundary

### Duration Change

> 24 hr decrease

12 hr - 24 hr decrease

6 hr - 12 hr decrease

3 hr - 6 hr decrease

0 hr - 3 hr decrease

0 hr - 3 hr increase

3 hr - 6 hr increase

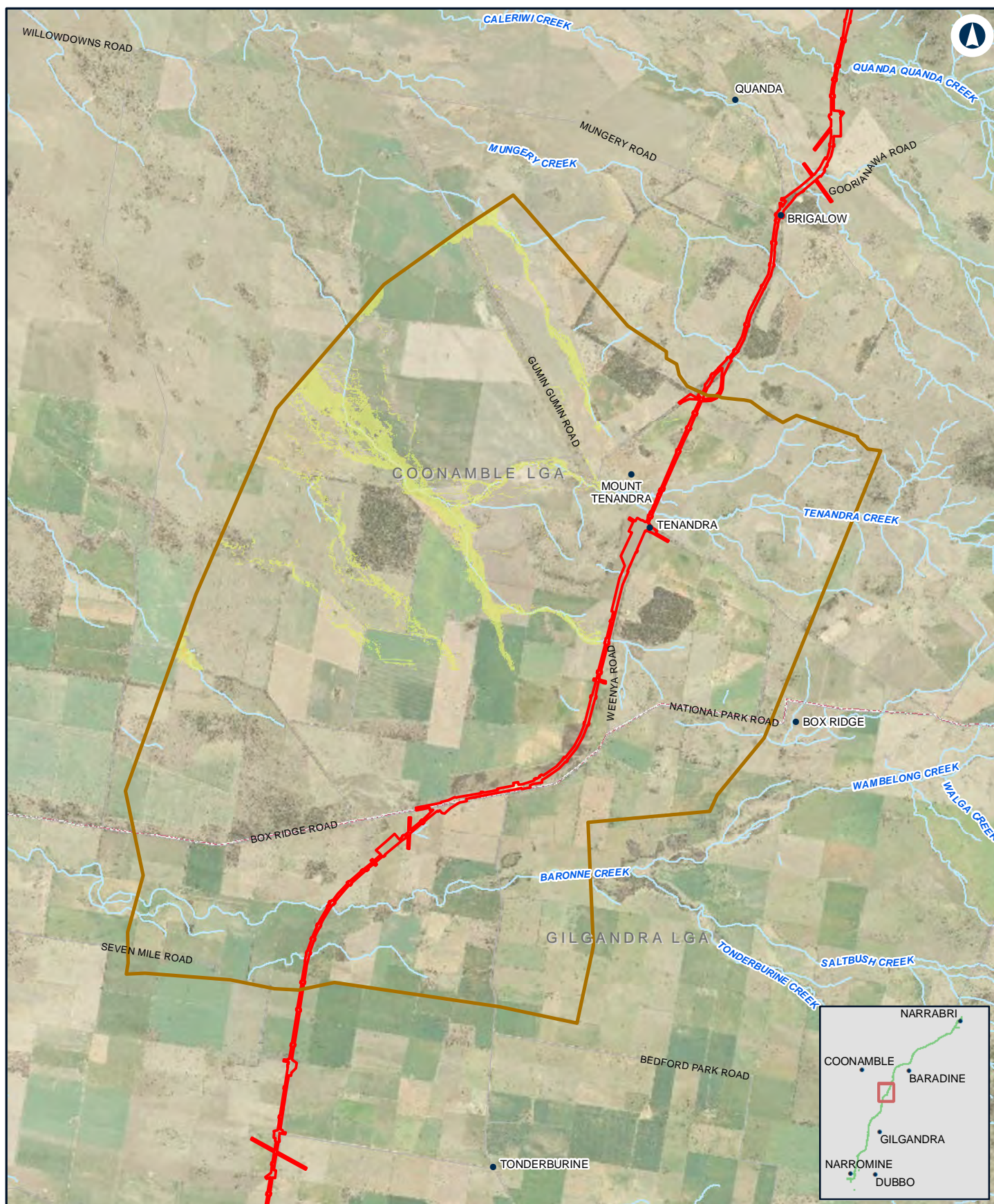
6 hr - 12 hr increase

12 hr - 24 hr increase

> 24 hr increase

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## NARROMINE TO NARRABRI

Change in duration - 20% AEP - N2N9

Appendix G - Figure 3.1f

0 1.5 3 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:110,000

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

### LEGEND

  The proposal site

  Model boundary

#### Duration Change

  > 24 hr decrease

  12 hr - 24 hr decrease

  6 hr - 12 hr decrease

  3 hr - 6 hr decrease

  0 hr - 3 hr decrease

  0 hr - 3 hr increase

  3 hr - 6 hr increase

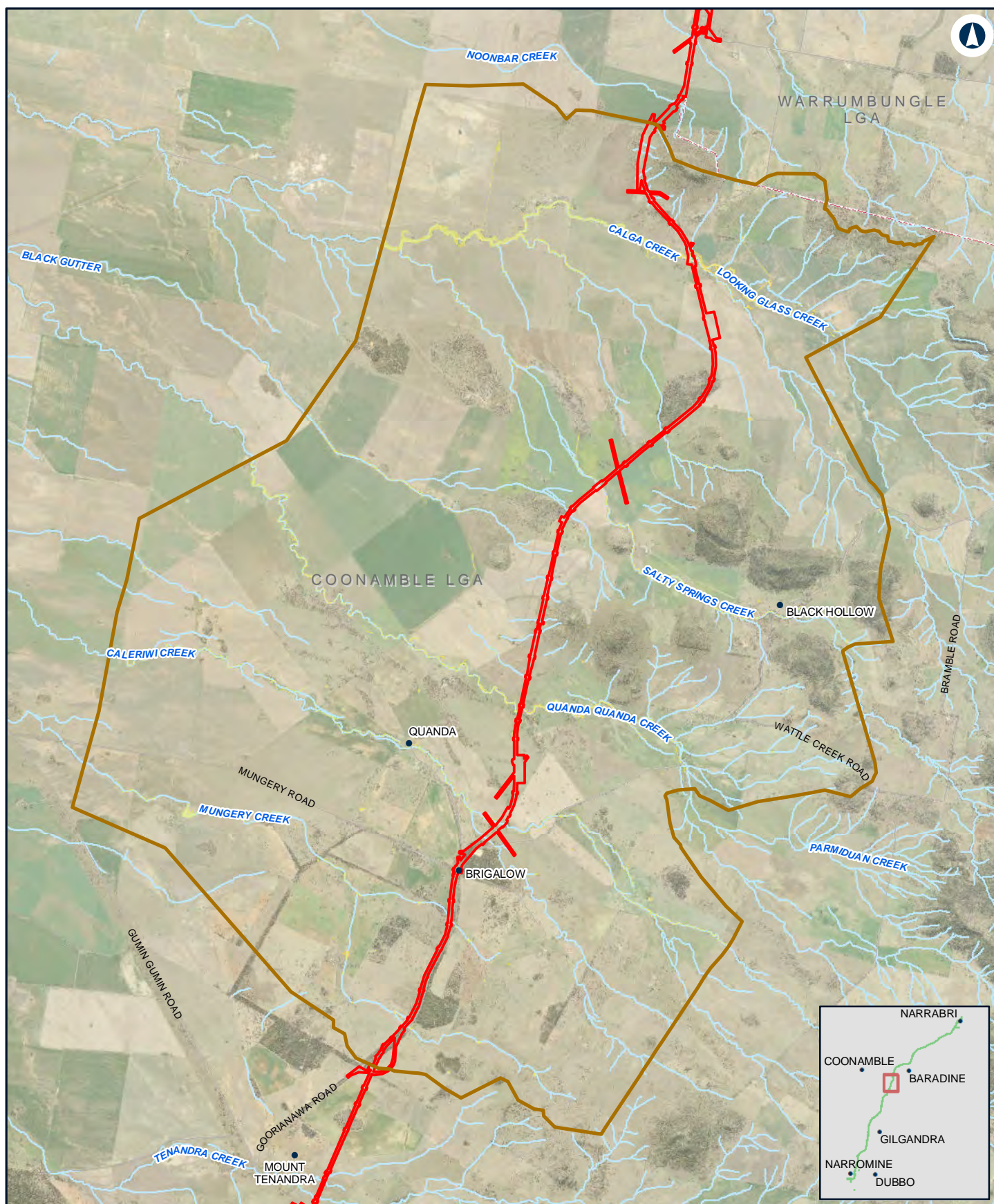
  6 hr - 12 hr increase

  12 hr - 24 hr increase

  > 24 hr increase

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# NARROMINE TO NARRABRI

Change in duration - 20% AEP - N2N8

Appendix G - Figure 3.1g

0 1 2 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:100,000

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

## LEGEND

  The proposal site

  Model boundary

### Duration Change

  > 24 hr decrease

  12 hr - 24 hr decrease

  6 hr - 12 hr decrease

  3 hr - 6 hr decrease

  0 hr - 3 hr decrease

  0 hr - 3 hr increase

  3 hr - 6 hr increase

  6 hr - 12 hr increase

  12 hr - 24 hr increase

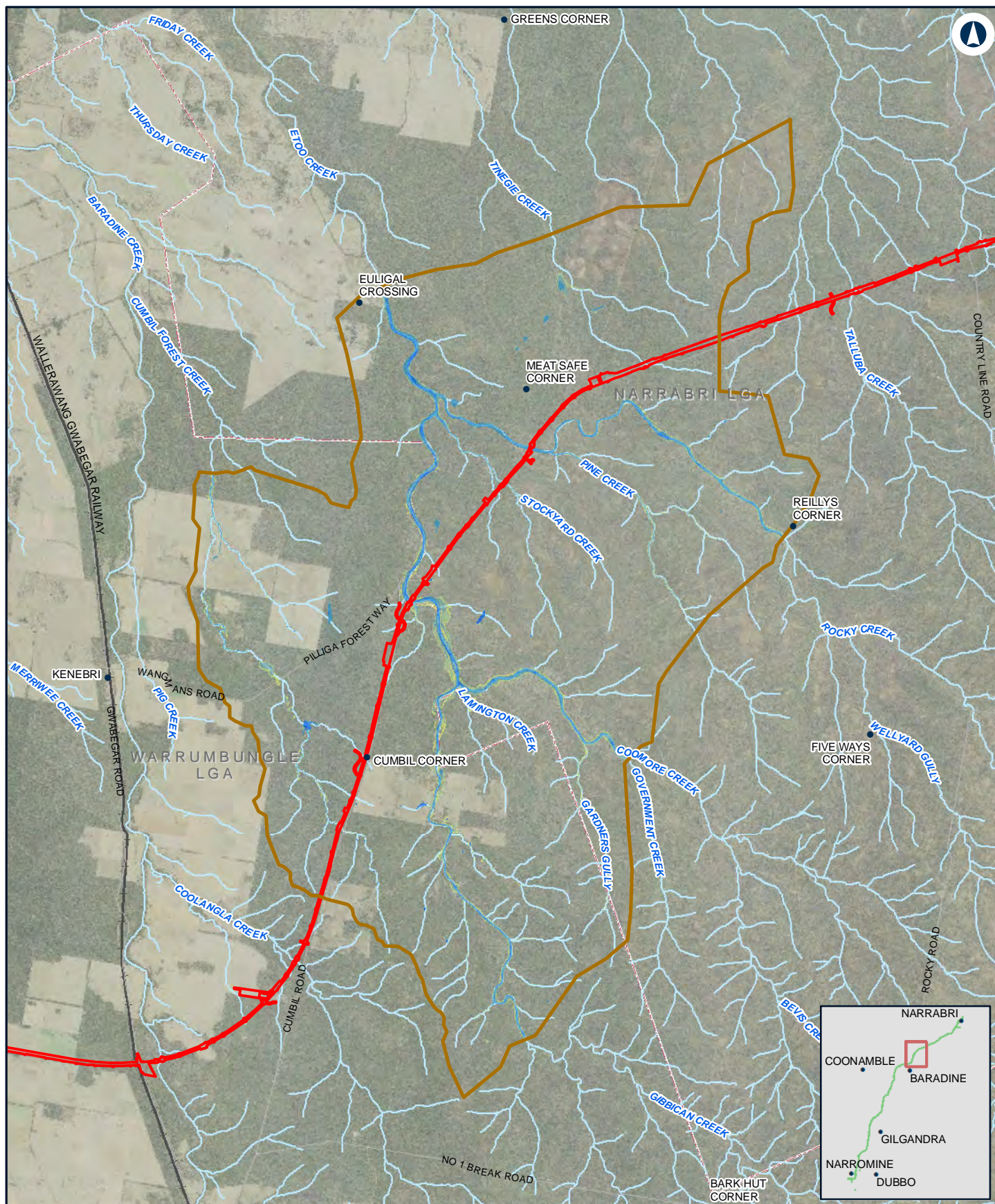
  > 24 hr increase

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## NARROMINE TO NARRABRI

Change in duration - 20% AEP - N2N6

Appendix G - Figure 3.1i

0 2 4 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020

Paper: A4

Author: JacobsGHD

Scale: 1:150,000

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

### LEGEND

  The proposal site

  Model boundary

#### Duration Change

  > 24 hr decrease

  12 hr - 24 hr decrease

  6 hr - 12 hr decrease

  3 hr - 6 hr decrease

  0 hr - 3 hr decrease

  0 hr - 3 hr increase

  3 hr - 6 hr increase

  6 hr - 12 hr increase

  12 hr - 24 hr increase

  > 24 hr increase

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