

TECHNICAL REPORT 03

Updated flooding and hydrology assessment

Appendix N Assessment of local and regional flooding at Narrabri

(Part 11 of 25)

NARROMINE TO NARRABRI PROJECT



TECHNICAL REPORT 03

Updated flooding and hydrology assessment

Appendix A Existing and operational flooding

Appendix A10 Narrabri local (operational flooding 5%)

NARROMINE TO NARRABRI PROJECT





NARROMINE TO NARRABRI

Change in peak flood level (afflux) - 5% AEP - Narrabri Local

Appendix A - Figure 2.17.1

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 16/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:10,000

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

LEGEND

 The proposal site

Afflux

> 0.2m decrease
 0.01 m - 0.2 m decrease
 0 m - 0.01 m decrease
 0 m - 0.01 m increase
 0.01 m - 0.05 m increase

0.05 m - 0.1 m increase
 0.1 m - 0.2 m increase
 0.2 m - 0.5 m increase
 > 0.5 m 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 peak flood level (afflux) - 5% AEP - Narrabri Local

Appendix A - Figure 2.17.2

0 0.1 0.2
Km

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LEGEND

 The proposal site

Afflux

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 0.01 m - 0.2 m decrease
 0 m - 0.01 m decrease
 0 m - 0.01 m increase
 0.01 m - 0.05 m increase

0.05 m - 0.1 m increase
 0.1 m - 0.2 m increase
 0.2 m - 0.5 m increase
 > 0.5 m increase

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - 5% AEP - Narrabri Local

Appendix A - Figure 2.17.3

0 0.1 0.2
Km

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LEGEND

 The proposal site

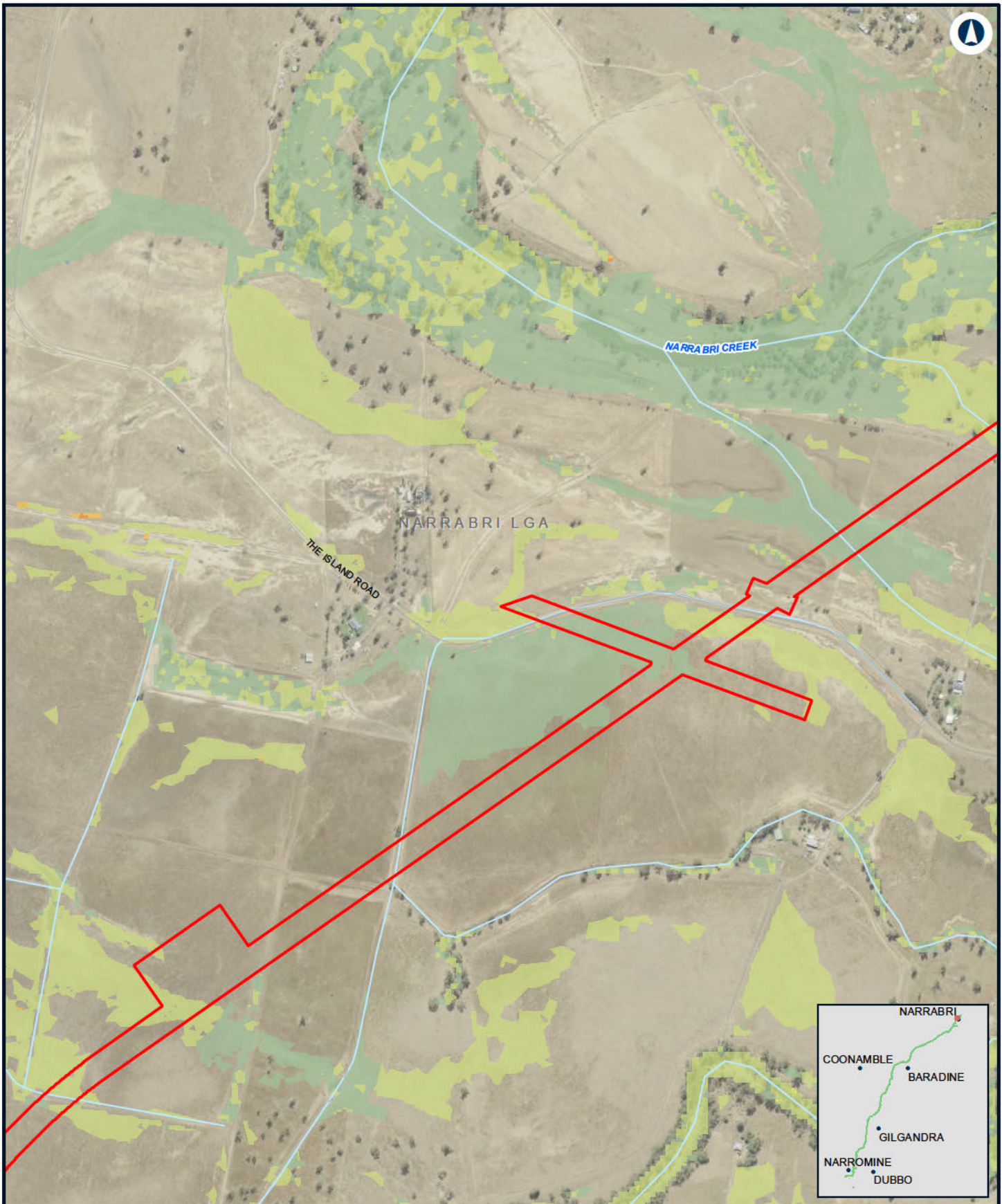
Afflux

> 0.2m decrease
 0.01 m - 0.2 m decrease
 0 m - 0.01 m decrease
 0 m - 0.01 m increase
 0.01 m - 0.05 m increase

0.05 m - 0.1 m increase
 0.1 m - 0.2 m increase
 0.2 m - 0.5 m increase
 > 0.5 m increase

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - 5% AEP - Narrabri Local

Appendix A - Figure 2.17.4

0 0.1 0.2
Km

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 The proposal site

Afflux

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 0.01 m - 0.2 m decrease
 0 m - 0.01 m decrease
 0 m - 0.01 m increase
 0.01 m - 0.05 m increase

0.05 m - 0.1 m increase
 0.1 m - 0.2 m increase
 0.2 m - 0.5 m increase
 > 0.5 m increase

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - 5% AEP - Narrabri Local

Appendix A - Figure 2.17.5

0 0.1 0.2
Km

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LEGEND

 The proposal site

Afflux

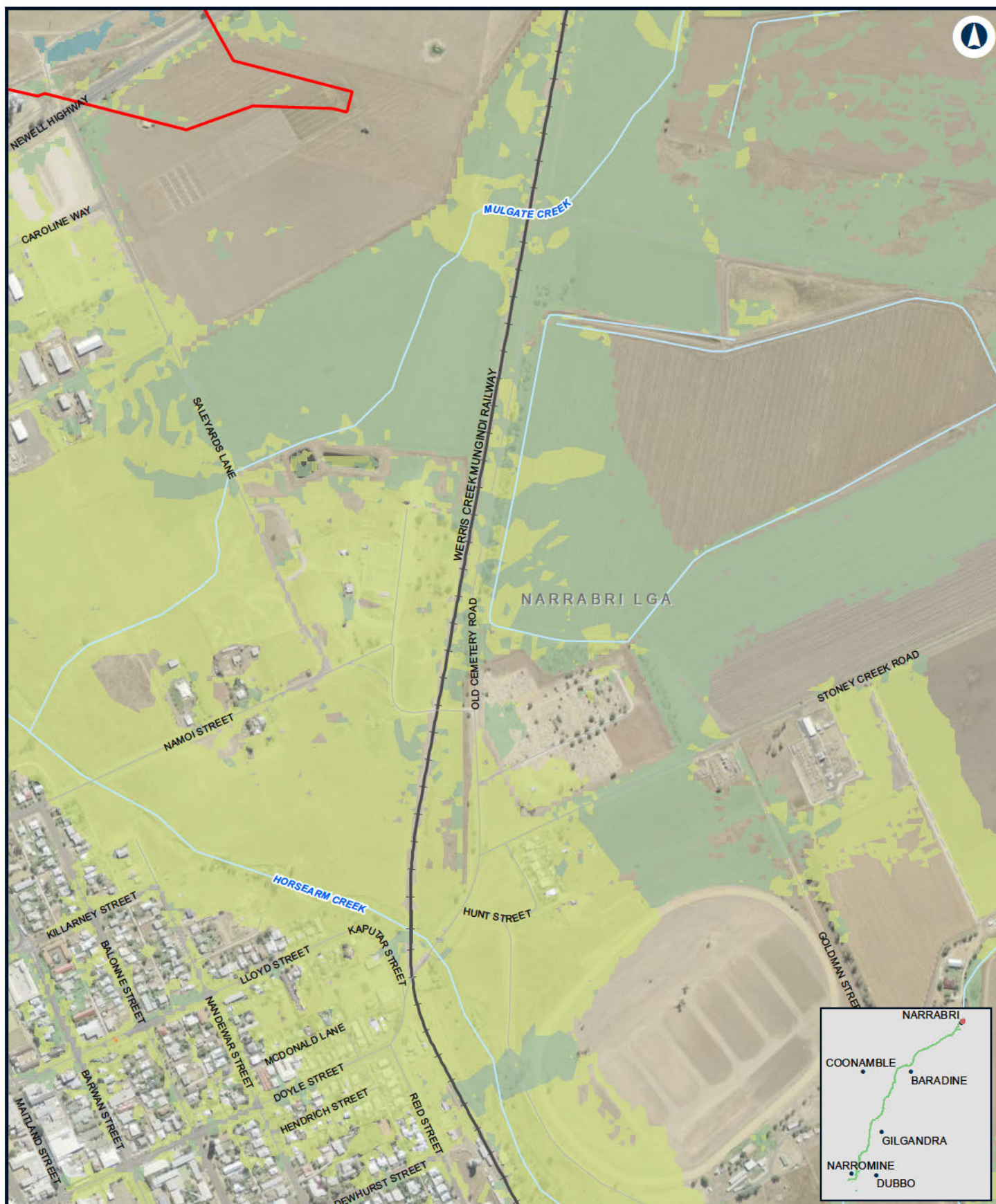
> 0.2m decrease
 0.01 m - 0.2 m decrease
 0 m - 0.01 m decrease
 0 m - 0.01 m increase
 0.01 m - 0.05 m increase

0.05 m - 0.1 m increase
 0.1 m - 0.2 m increase
 0.2 m - 0.5 m increase
 > 0.5 m increase

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - 5% AEP - Narrabri Local

Appendix A - Figure 2.17.6

0 0.1 0.2
Km

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LEGEND

 The proposal site

Afflux

> 0.2m decrease
 0.01 m - 0.2 m decrease
 0 m - 0.01 m decrease
 0 m - 0.01 m increase
 0.01 m - 0.05 m increase

0.05 m - 0.1 m increase
 0.1 m - 0.2 m increase
 0.2 m - 0.5 m increase
 > 0.5 m increase

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - 5% AEP - Narrabri Local

Appendix A - Figure 2.17.7

0 0.1 0.2
Km

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LEGEND

Afflux

> 0.2m decrease	0.1 m - 0.2 m increase
0.01 m - 0.2 m decrease	0.2 m - 0.5 m increase
0 m - 0.01 m decrease	> 0.5 m increase
0 m - 0.01 m increase	
0.01 m - 0.05 m increase	
0.05 m - 0.1 m increase	

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - 5% AEP - Narrabri Local

Appendix A - Figure 2.17.8

0 0.1 0.2
Km

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LEGEND

 The proposal site

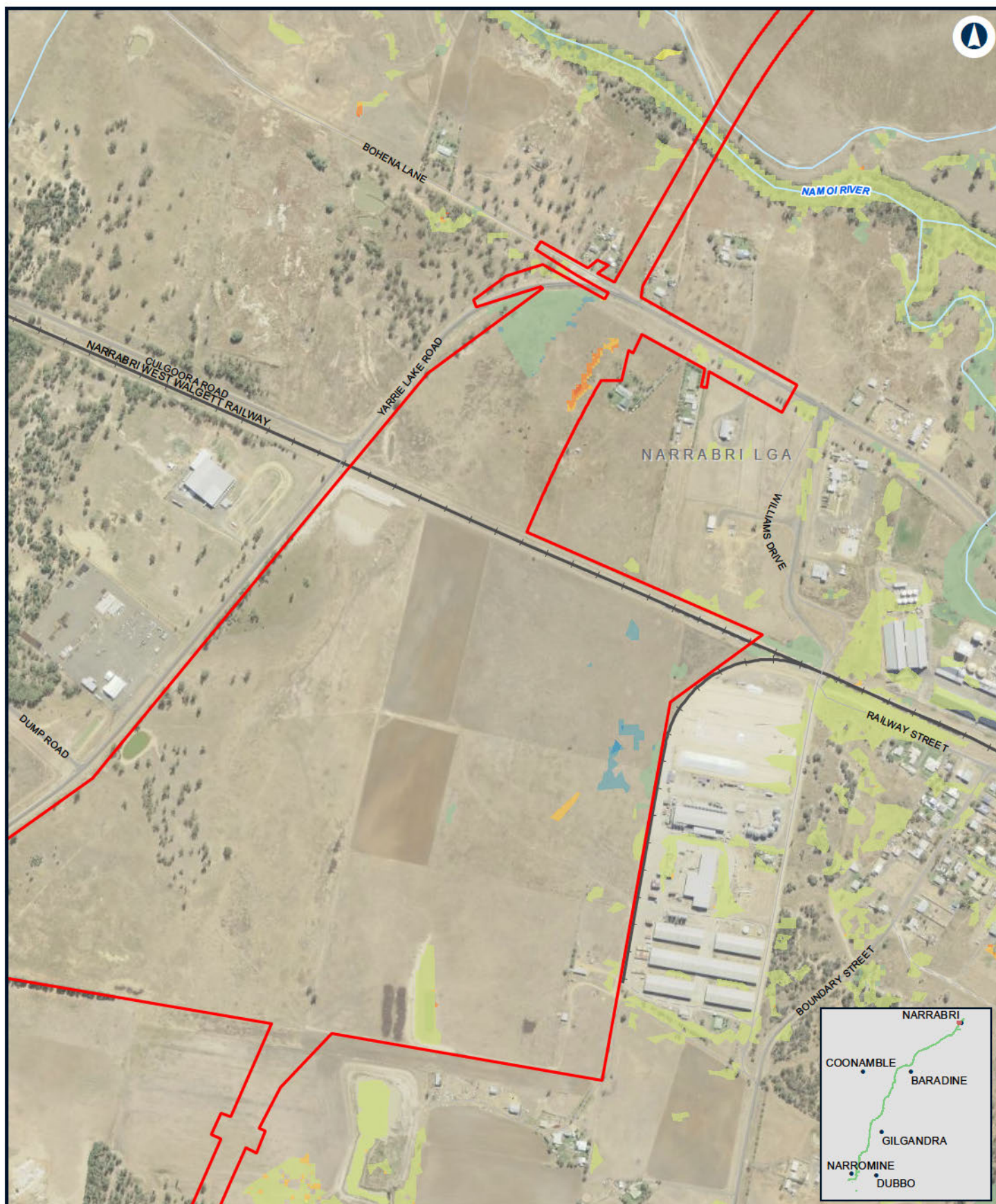
Afflux

> 0.2m decrease
 0.01 m - 0.2 m decrease
 0 m - 0.01 m decrease
 0 m - 0.01 m increase
 0.01 m - 0.05 m increase

0.05 m - 0.1 m increase
 0.1 m - 0.2 m increase
 0.2 m - 0.5 m increase
 > 0.5 m increase

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - 5% AEP - Narrabri Local

Appendix A - Figure 2.17.9

0 0.1 0.2
Km

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LEGEND

 The proposal site

Afflux

> 0.2m decrease
 0.01 m - 0.2 m decrease
 0 m - 0.01 m decrease
 0.01 m - 0.05 m increase

0.05 m - 0.1 m increase
 0.1 m - 0.2 m increase
 0.2 m - 0.5 m increase
 > 0.5 m increase

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - 5% AEP - Narrabri Local

Appendix A - Figure 2.17.10

0 0.1 0.2
Km

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LEGEND

Afflux

> 0.2m decrease	0.1 m - 0.2 m increase
0.01 m - 0.2 m decrease	0.2 m - 0.5 m increase
0 m - 0.01 m decrease	> 0.5 m increase
0 m - 0.01 m increase	
0.01 m - 0.05 m increase	
0.05 m - 0.1 m increase	

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - 5% AEP - Narrabri Local

Appendix A - Figure 2.17.11

0 0.1 0.2
Km

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LEGEND

Afflux

- > 0.2m decrease
- 0.01 m - 0.2 m decrease
- 0 m - 0.01 m decrease
- 0 m - 0.01 m increase
- 0.01 m - 0.05 m increase
- 0.05 m - 0.1 m increase
- 0.1 m - 0.2 m increase
- 0.2 m - 0.5 m increase
- > 0.5 m increase

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NARRABRI TO NARRABRI

Change in peak flood level (afflux) - 5% AEP - Narrabri Local

Appendix A - Figure 2.17.12

0 0.1 0.2
Km

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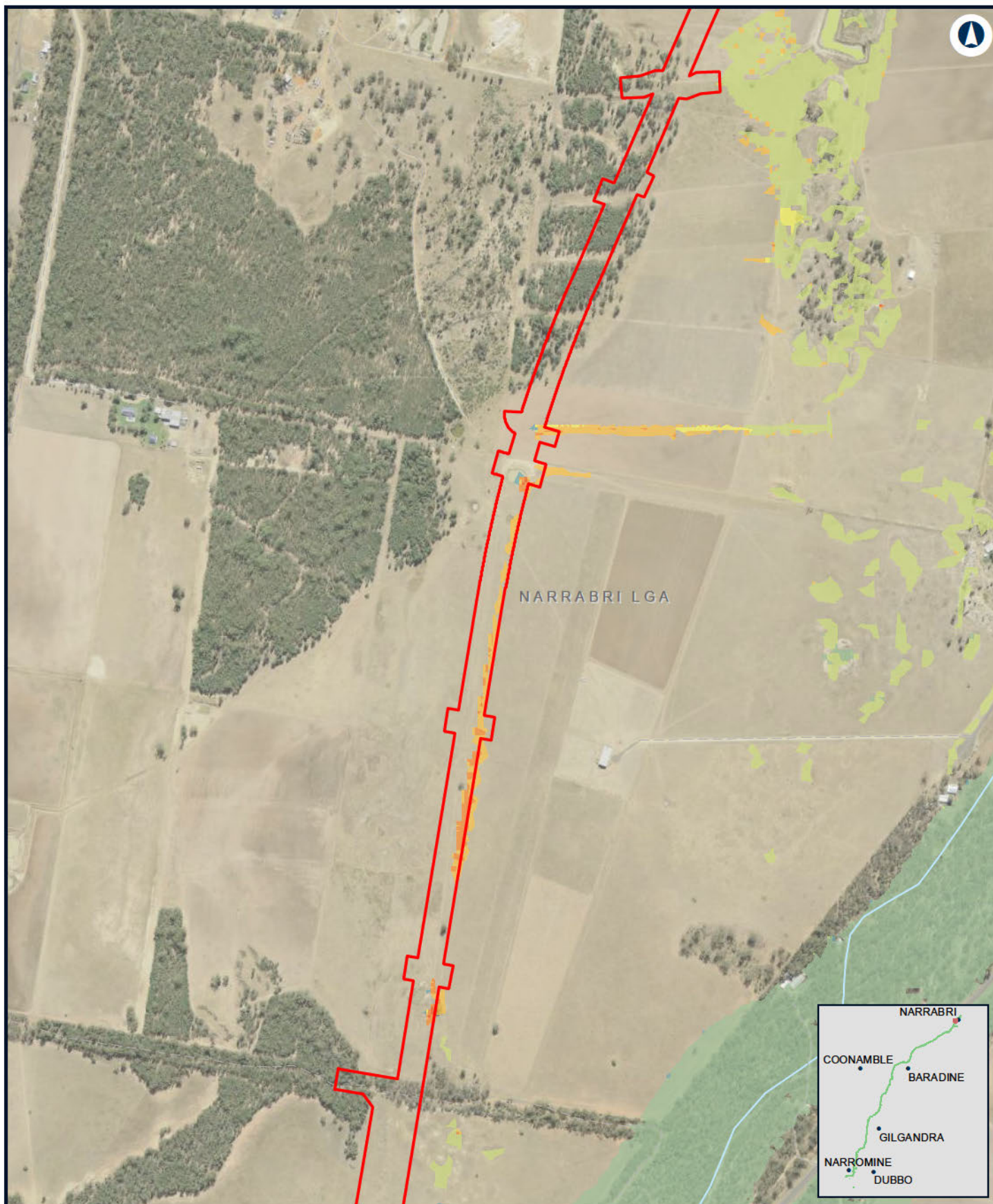
LEGEND

Afflux

> 0.2m decrease	0.1 m - 0.2 m increase
0.01 m - 0.2 m decrease	0.2 m - 0.5 m increase
0 m - 0.01 m decrease	> 0.5 m increase
0 m - 0.01 m increase	
0.01 m - 0.05 m increase	
0.05 m - 0.1 m increase	

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - 5% AEP - Narrabri Local

Appendix A - Figure 2.17.13

0 0.1 0.2
Km

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LEGEND

 The proposal site

Afflux

> 0.2m decrease
 0.01 m - 0.2 m decrease
 0 m - 0.01 m decrease
 0 m - 0.01 m increase
 0.01 m - 0.05 m increase

0.05 m - 0.1 m increase
 0.1 m - 0.2 m increase
 0.2 m - 0.5 m increase
 > 0.5 m increase

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - 5% AEP - Narrabri Local

Appendix A - Figure 2.17.14

0 0.1 0.2
Km

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LEGEND

Afflux

> 0.2m decrease	0.1 m - 0.2 m increase
0.01 m - 0.2 m decrease	0.2 m - 0.5 m increase
0 m - 0.01 m decrease	> 0.5 m increase
0 m - 0.01 m increase	
0.01 m - 0.05 m increase	
0.05 m - 0.1 m increase	

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - 5% AEP - Narrabri Local

Appendix A - Figure 2.17.15

0 0.1 0.2
Km

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LEGEND

Afflux

- > 0.2m decrease
- 0.01 m - 0.2 m decrease
- 0 m - 0.01 m decrease
- 0 m - 0.01 m increase
- 0.01 m - 0.05 m increase
- 0.05 m - 0.1 m increase

- 0.1 m - 0.2 m increase
- 0.2 m - 0.5 m increase
- > 0.5 m increase

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - 5% AEP - Narrabri Local

Appendix A - Figure 2.17.16

0 0.1 0.2
Km

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LEGEND

Afflux

> 0.2m decrease	0.1 m - 0.2 m increase
0.01 m - 0.2 m decrease	0.2 m - 0.5 m increase
0 m - 0.01 m decrease	> 0.5 m increase
0 m - 0.01 m increase	
0.01 m - 0.05 m increase	
0.05 m - 0.1 m increase	

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NARROMINE TO NARRABRI

Change in velocity - 5% AEP - Narrabri Local

Appendix A - Figure 2.18.1

0 0.1 0.2
Km

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LEGEND

The proposal site

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 Local

Appendix A - Figure 2.18.2

0 0.1 0.2
Km

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LEGEND

 The proposal site

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 Local

Appendix A - Figure 2.18.3

0 0.1 0.2
Km

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LEGEND

 The proposal site

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

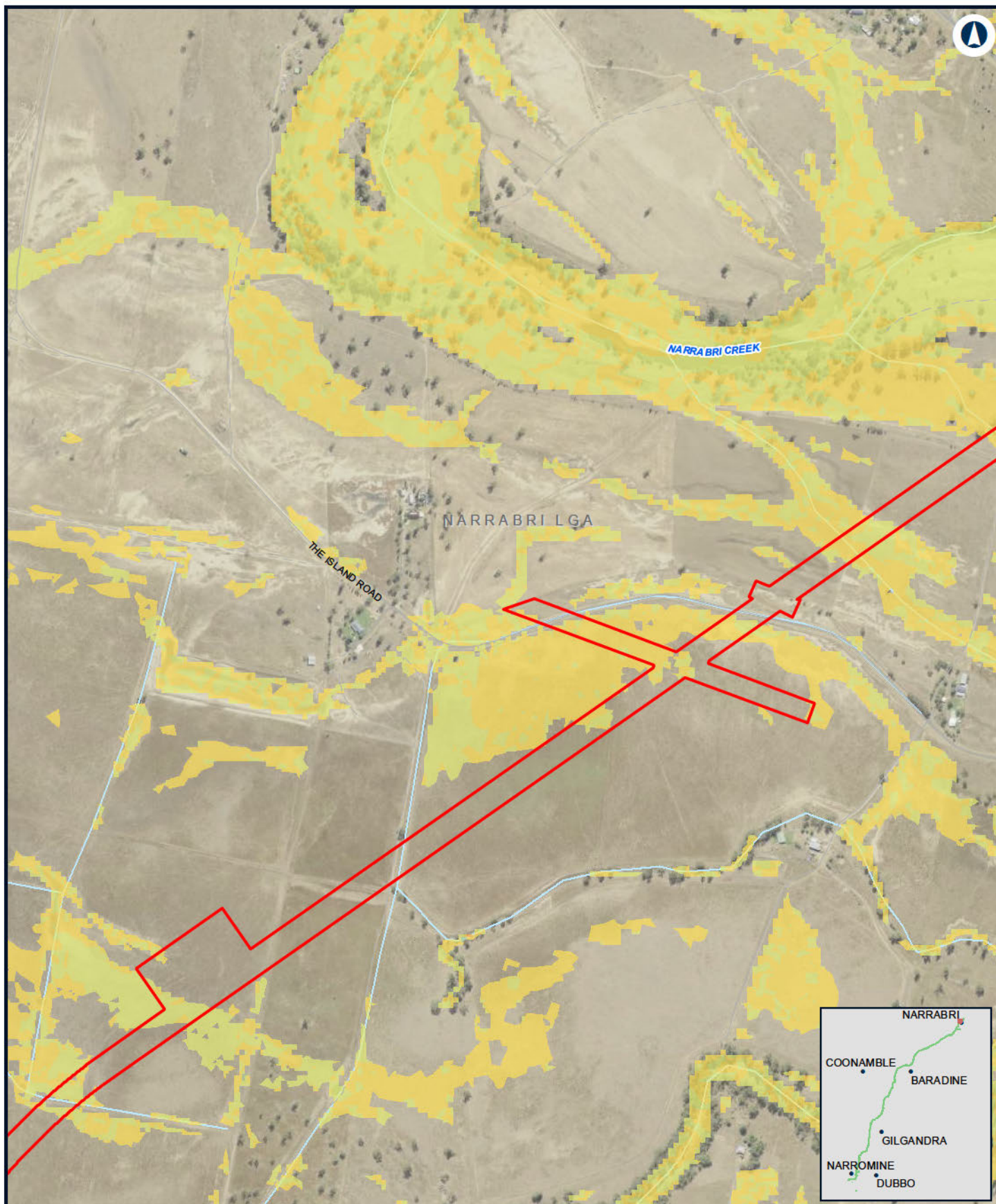
0.5 m/s - 1 m/s increase

> 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 5% AEP - Narrabri Local

Appendix A - Figure 2.18.4

0 0.1 0.2
Km

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LEGEND

 The proposal site

Change in Flood Velocity

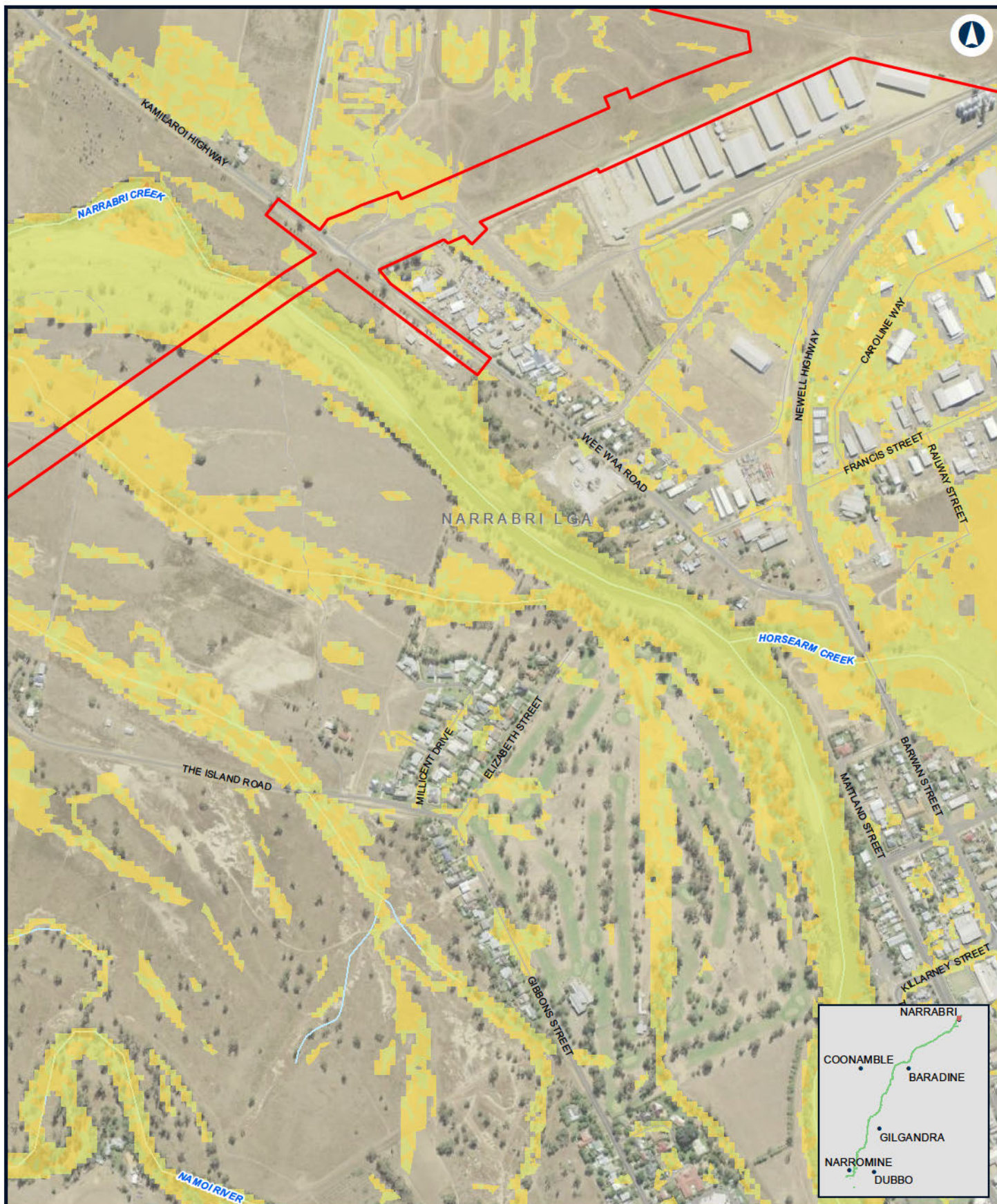
> 1 m/s decrease
 0.5 m/s - 1 m/s decrease
 0.1 m/s - 0.5 m/s decrease
 0 m/s - 0.1 m/s decrease
 0 m/s - 0.1 m/s increase

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 Local

Appendix A - Figure 2.18.5

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 16/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:10,000

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

LEGEND

 The proposal site

Change in Flood Velocity

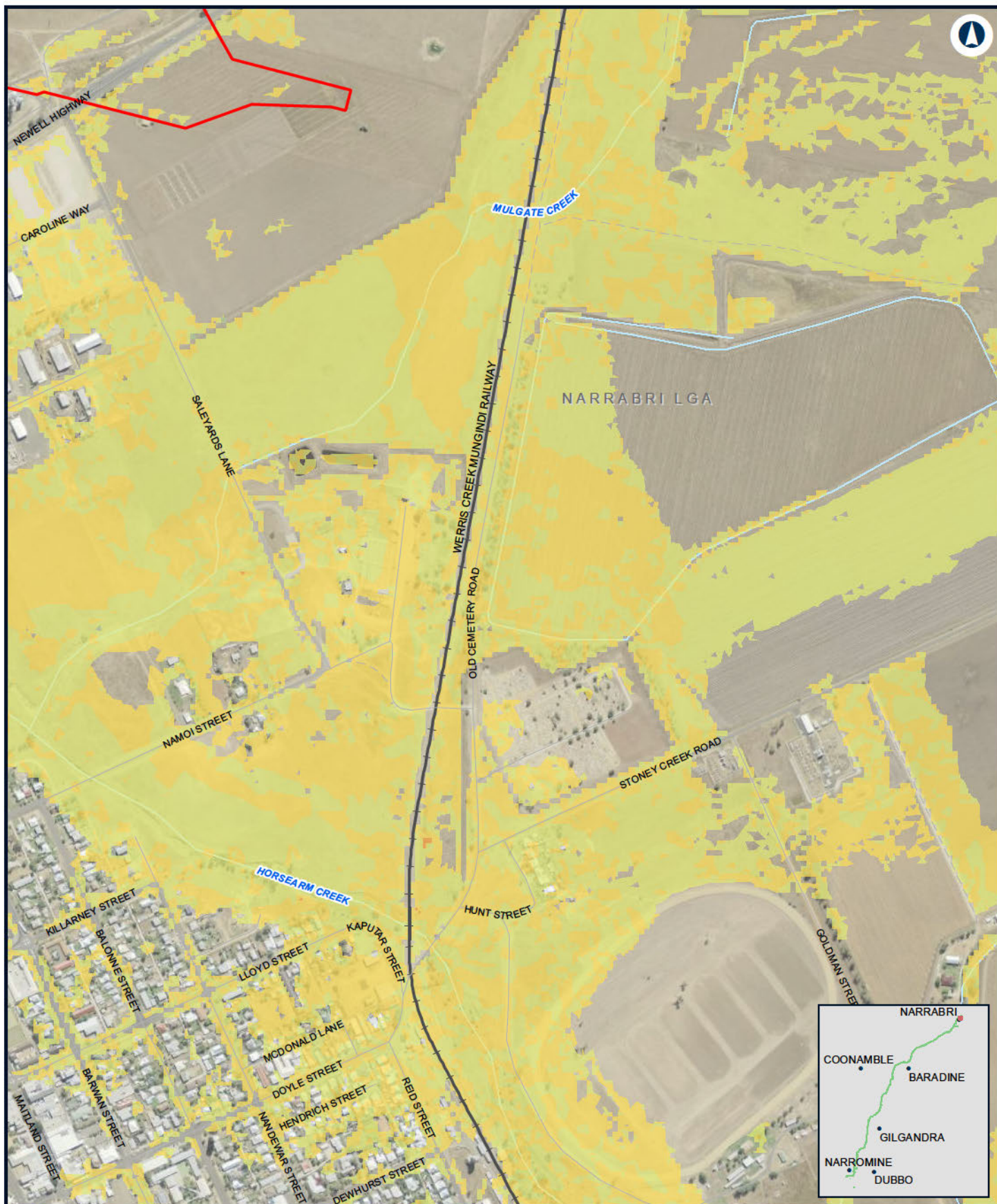
- > 1 m/s decrease
- 0.5 m/s - 1 m/s decrease
- 0.1 m/s - 0.5 m/s decrease
- 0 m/s - 0.1 m/s decrease
- 0 m/s - 0.1 m/s increase

- 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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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 - 5% AEP - Narrabri Local

Appendix A - Figure 2.18.6

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 16/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

 The proposal site

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 Local

Appendix A - Figure 2.18.7

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 16/08/2022 Paper: A4
Author: JacobsGHD Scale: 1:10,000

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

LEGEND

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 Local

Appendix A - Figure 2.18.8

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Author: JacobsGHD

Paper: A4
Scale: 1:10,000

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

LEGEND

 The proposal site

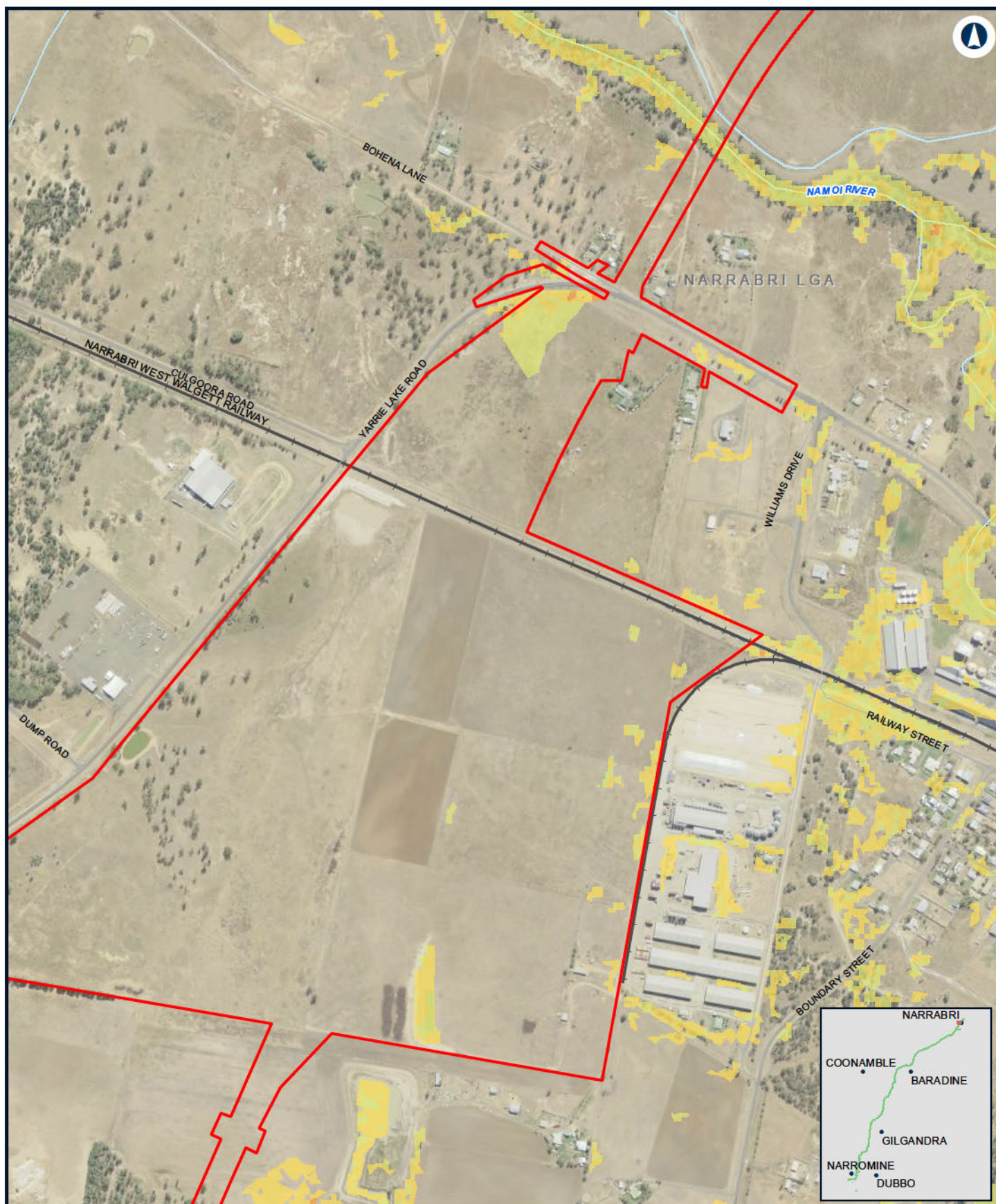
Change in Flood Velocity

- > 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 - Narrabri Local

Appendix A - Figure 2.18.9

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 16/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

 The proposal site

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

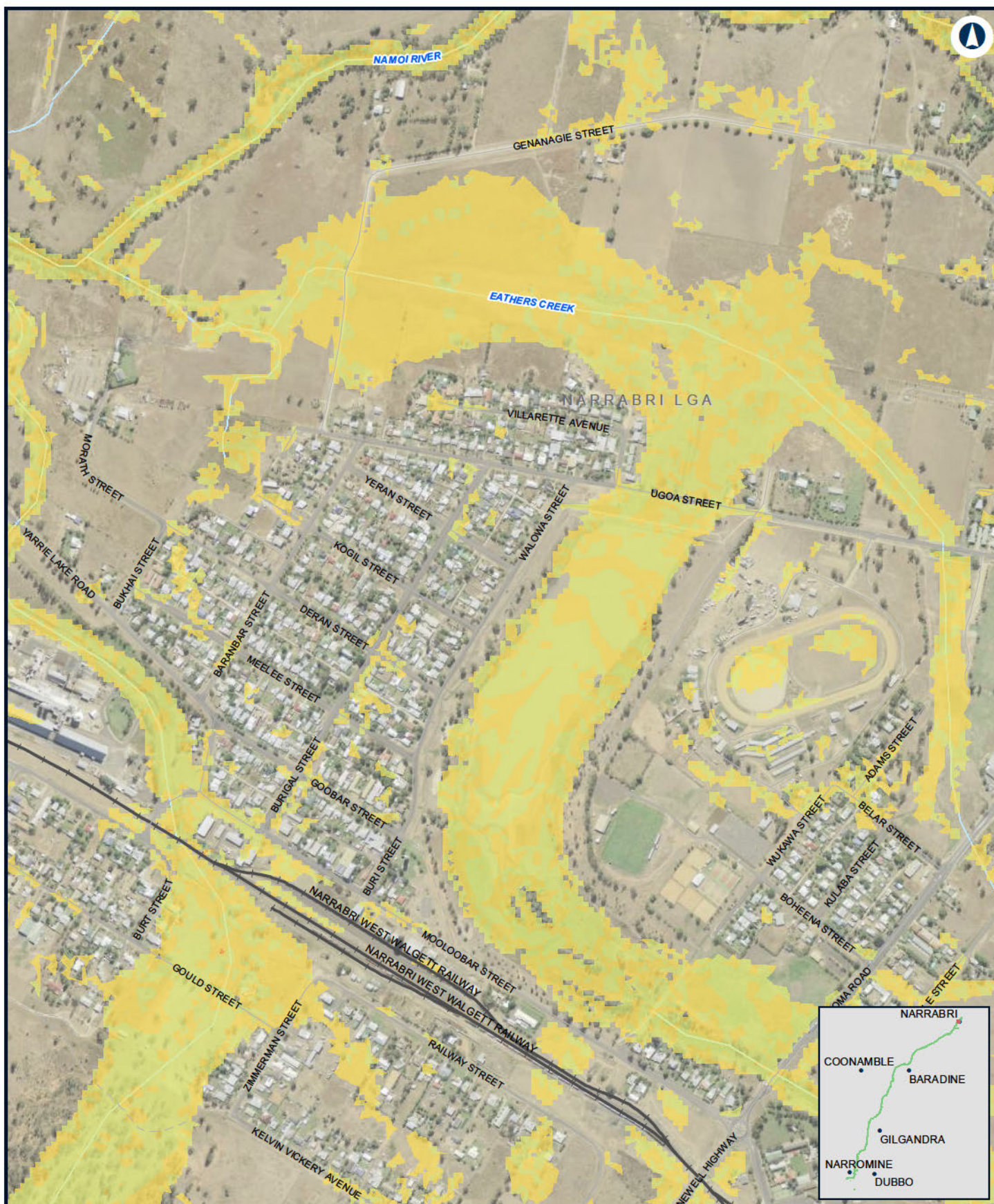
0.5 m/s - 1 m/s increase

> 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 5% AEP - Narrabri Local

Appendix A - Figure 2.18.10

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 16/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

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 Local

Appendix A - Figure 2.18.11

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 16/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

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

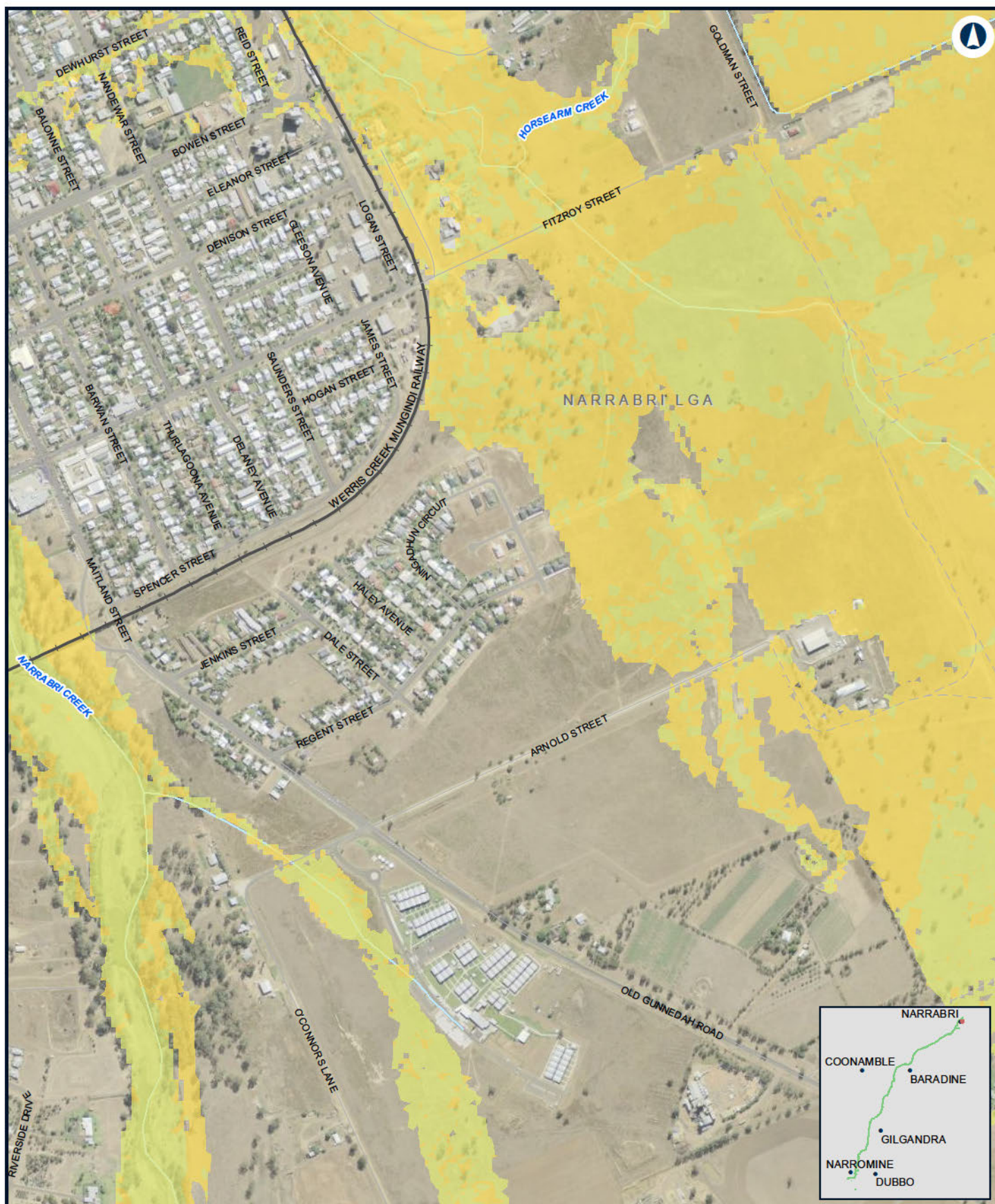
0.5 m/s - 1 m/s increase

> 1 m/s increase

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NARRABRI TO NARRABRI

Change in velocity - 5% AEP - Narrabri Local

Appendix A - Figure 2.18.12

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 16/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

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

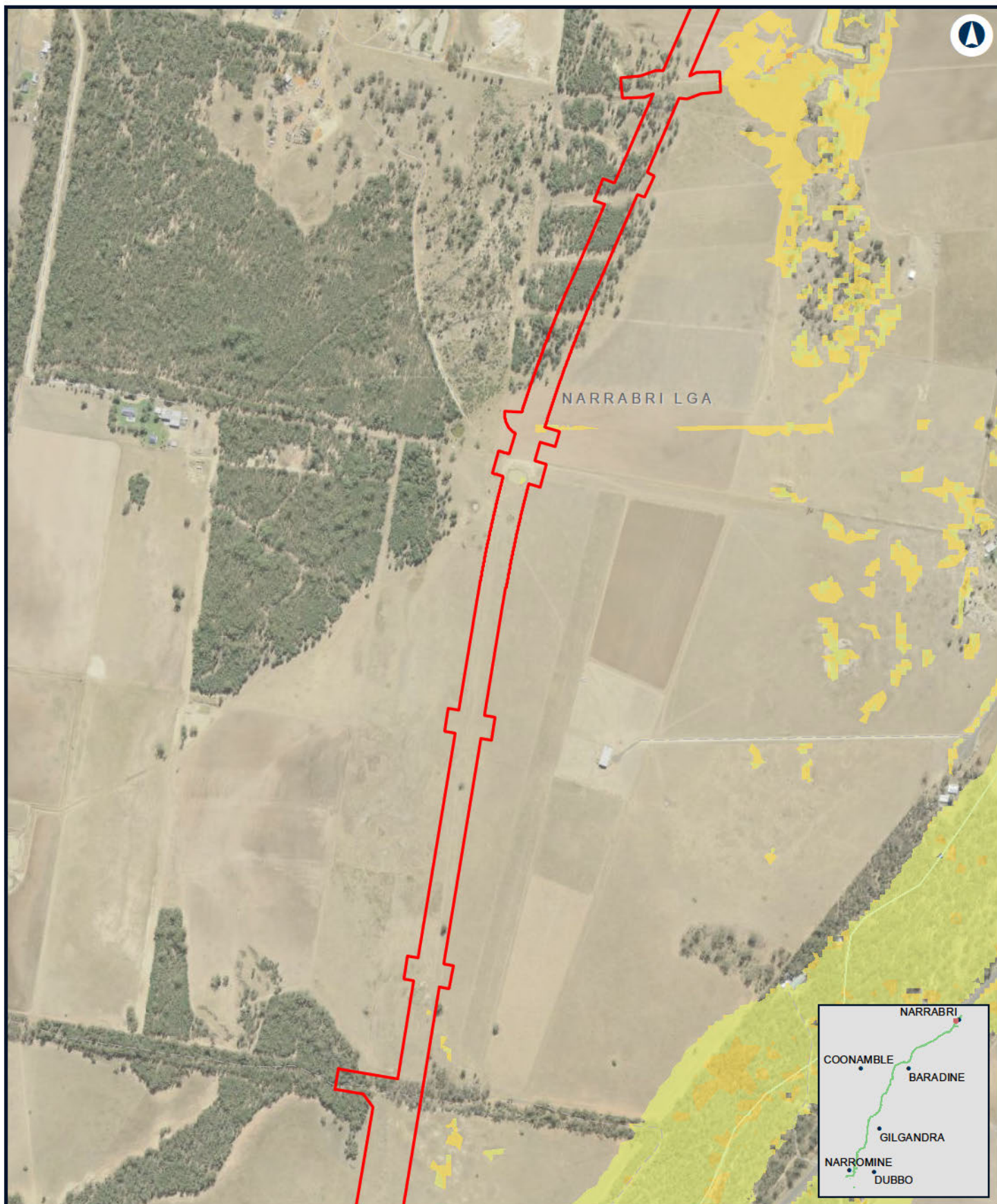
0.5 m/s - 1 m/s increase

> 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 5% AEP - Narrabri Local

Appendix A - Figure 2.18.13

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 16/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:10,000

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

LEGEND

 The proposal site

Change in Flood Velocity

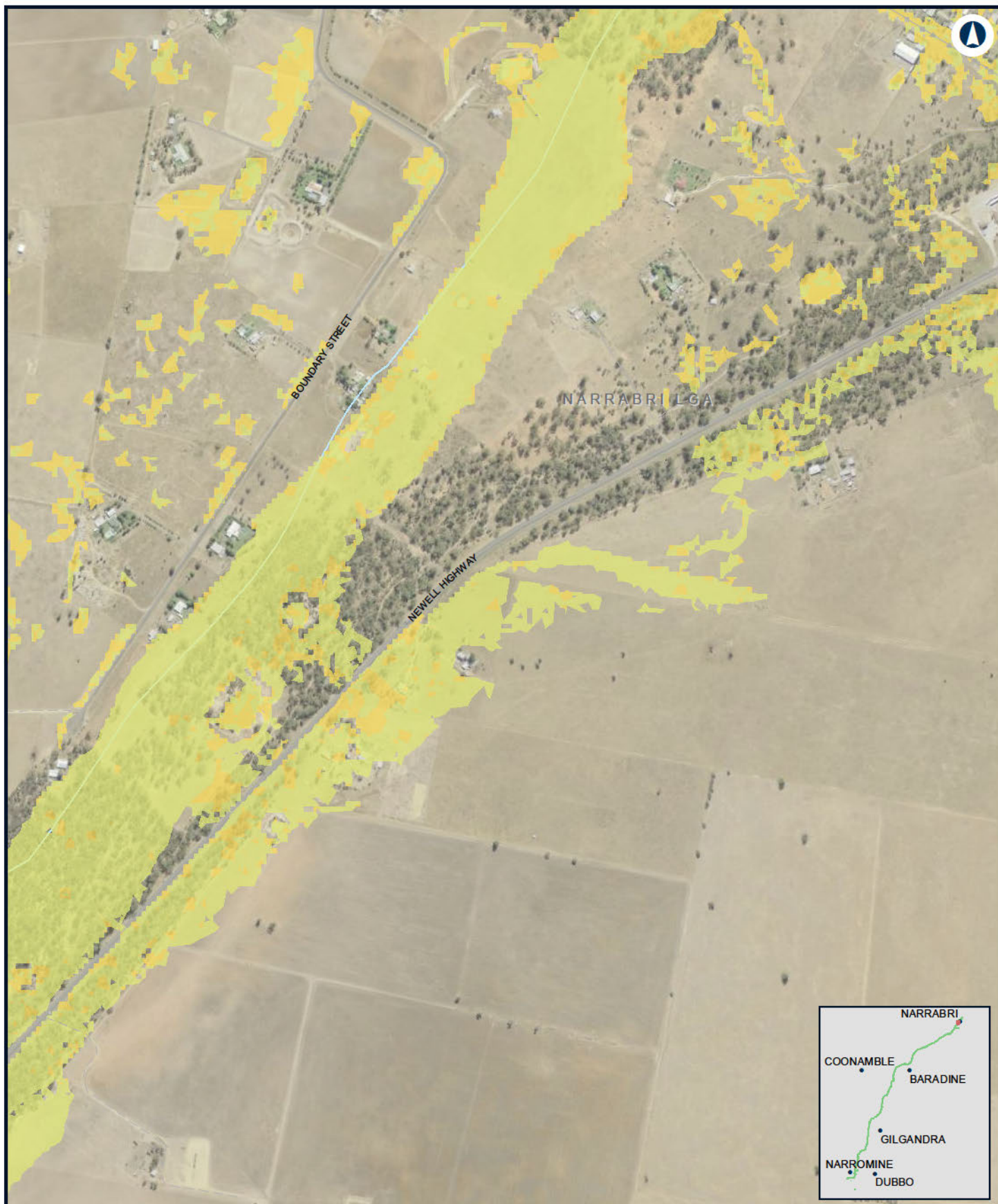
- > 1 m/s decrease
- 0.5 m/s - 1 m/s decrease
- 0.1 m/s - 0.5 m/s decrease
- 0 m/s - 0.1 m/s decrease
- 0 m/s - 0.1 m/s increase

- 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 Local

Appendix A - Figure 2.18.14

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 16/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:10,000

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

LEGEND

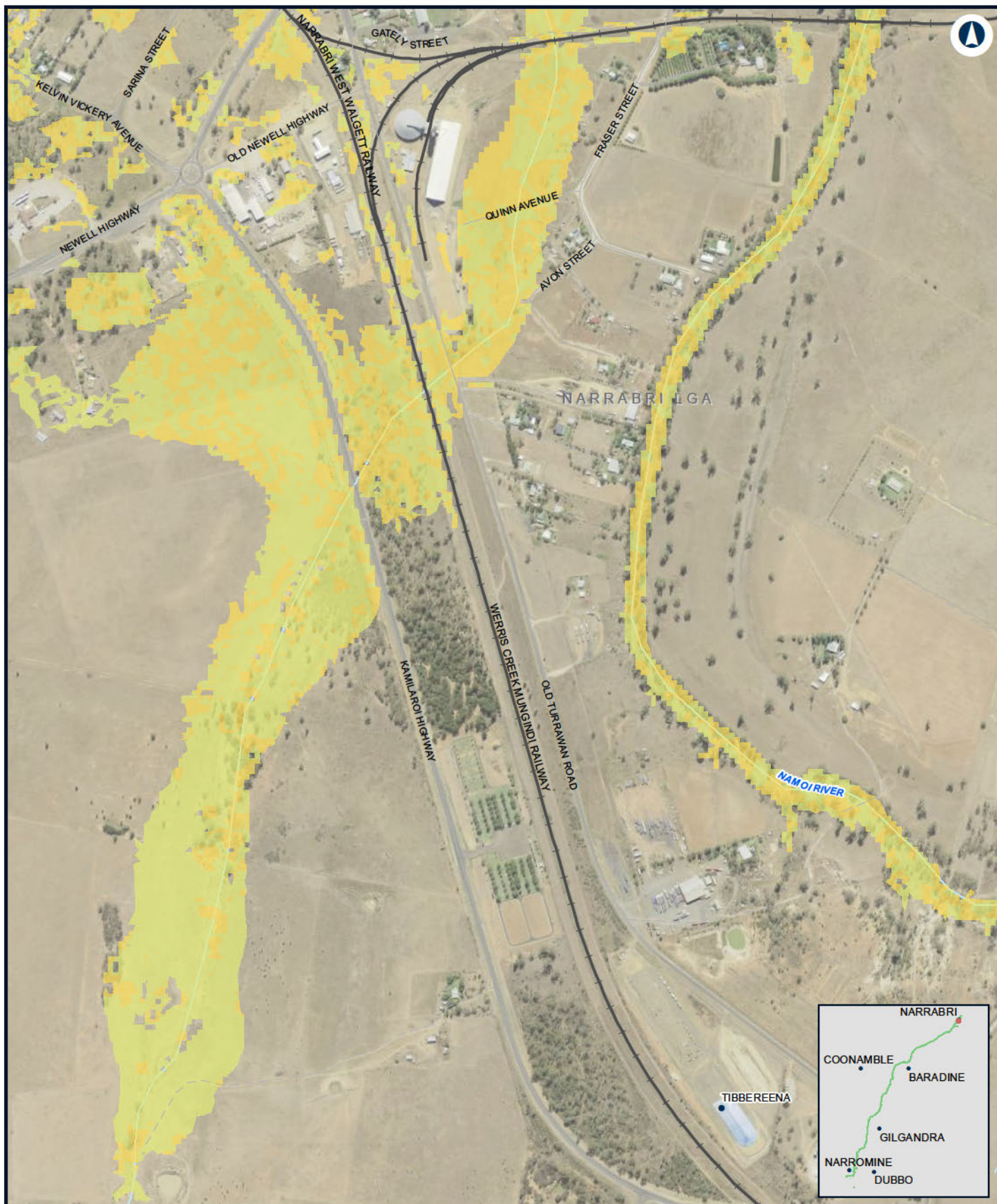
Change in Flood Velocity

- > 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 Local

Appendix A - Figure 2.18.15

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 16/08/2022 Paper: A4
Author: JacobsGHD Scale: 1:10,000

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

LEGEND

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 - Narrabri Local

Appendix A - Figure 2.18.16

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 16/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

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

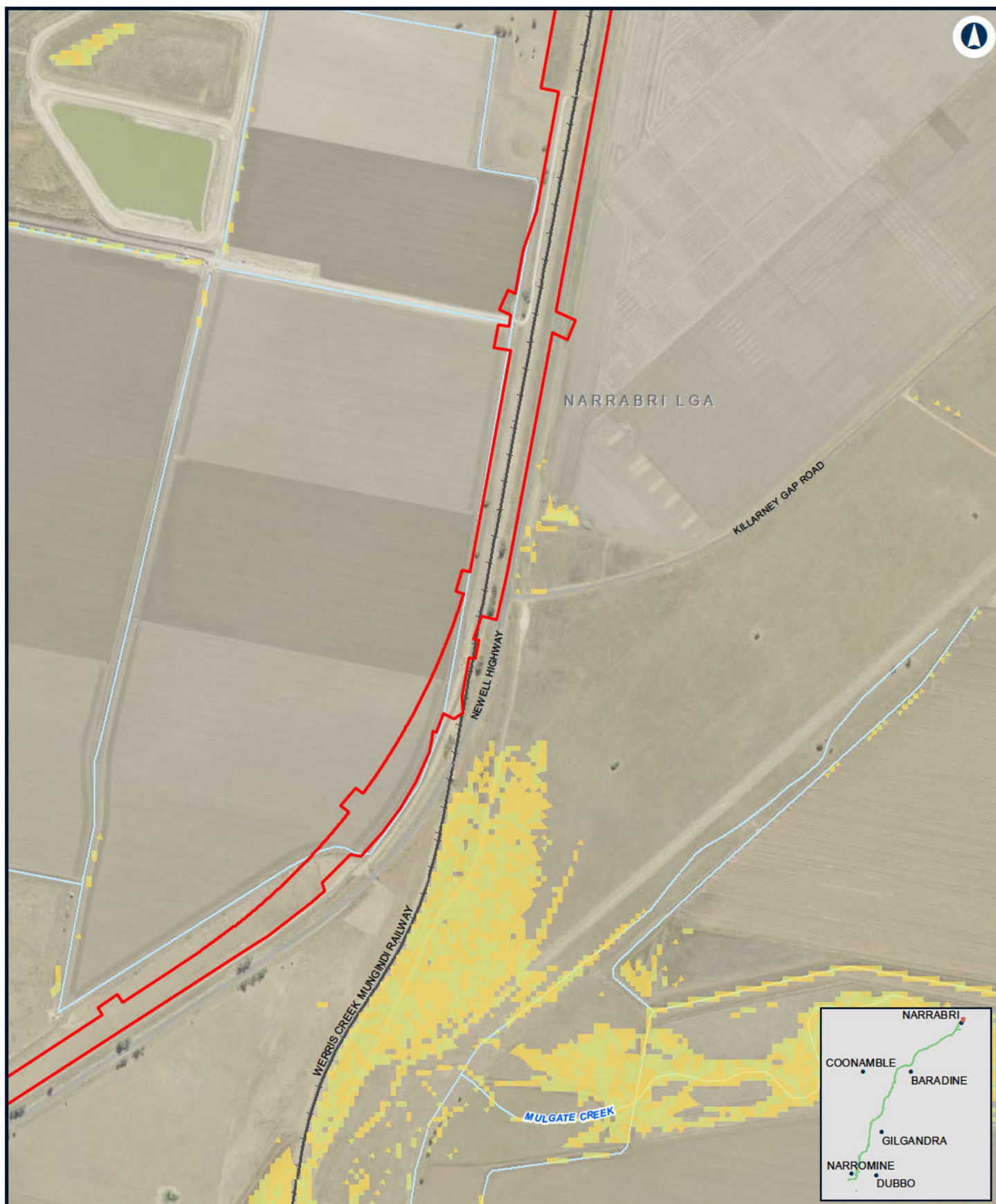
0.5 m/s - 1 m/s increase

> 1 m/s increase

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NARROMINE TO NARRABRI

Change in duration - 5% AEP - Narrabri Local

Appendix A - Figure 2.19.1

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 16/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

 The proposal site

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

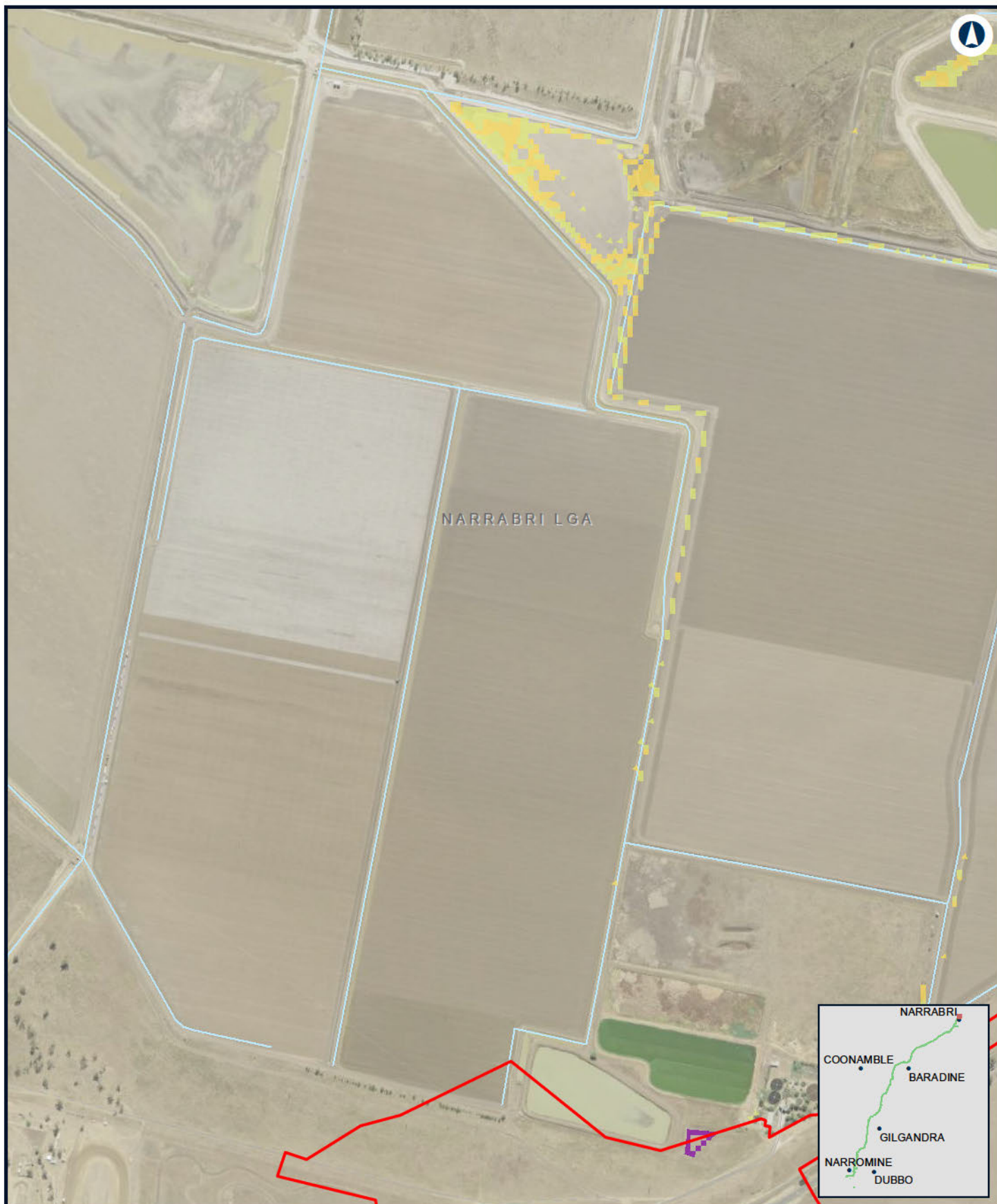
 12 hr - 24 hr increase

 > 24 hr increase

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NARROMINE TO NARRABRI

Change in duration - 5% AEP - Narrabri Local

Appendix A - Figure 2.19.2

0 0.1 0.2
Km

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Date: 16/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:10,000

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

LEGEND

 The proposal site

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 - 5% AEP - Narrabri Local

Appendix A - Figure 2.19.3

0 0.1 0.2
Km

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Date: 16/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:10,000

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

LEGEND

 The proposal site

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

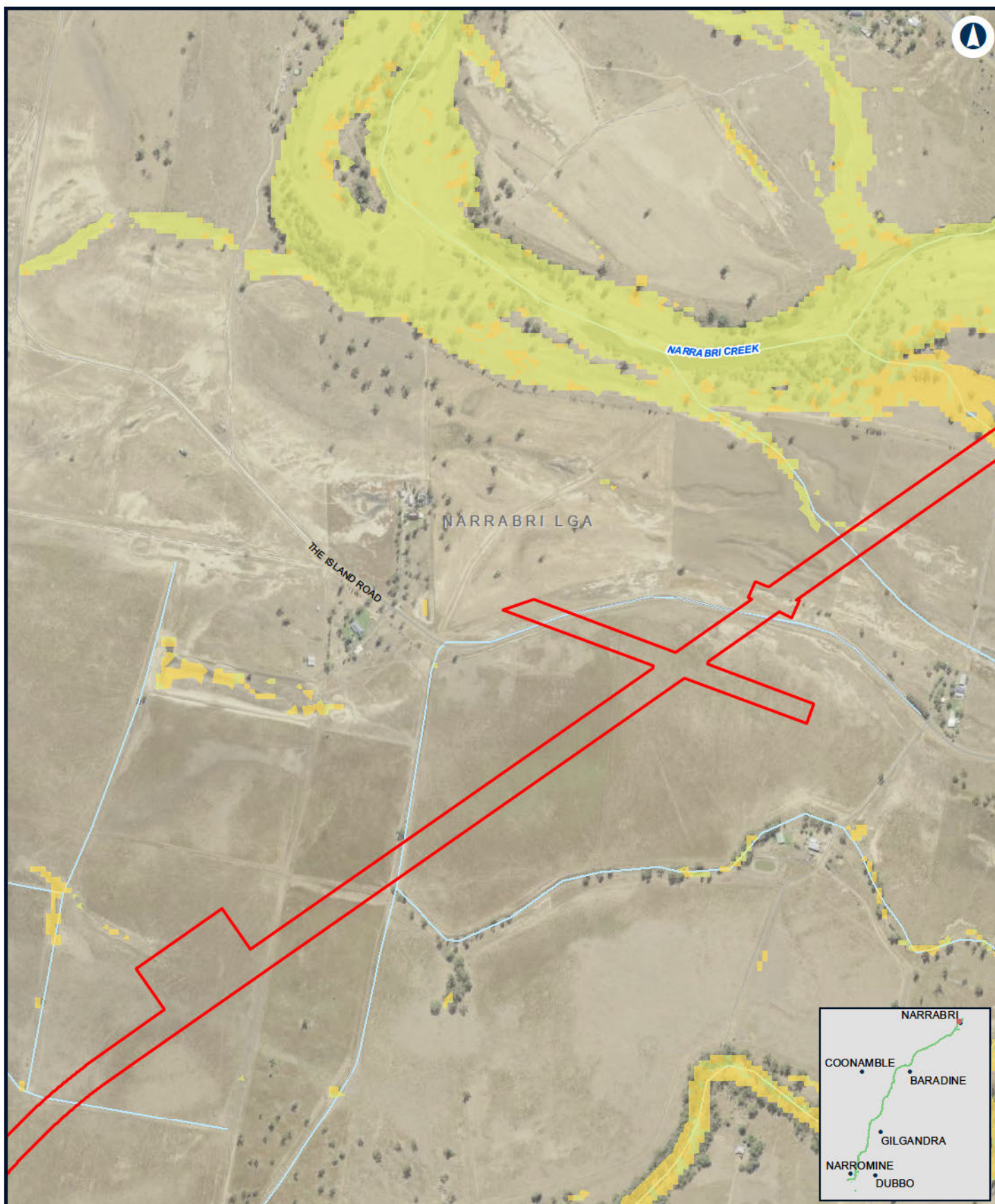
 12 hr - 24 hr increase

 > 24 hr increase

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NARROMINE TO NARRABRI

Change in duration - 5% AEP - Narrabri Local

Appendix A - Figure 2.19.4

0 0.1 0.2
Km

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Date: 16/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:10,000

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

LEGEND

 The proposal site

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

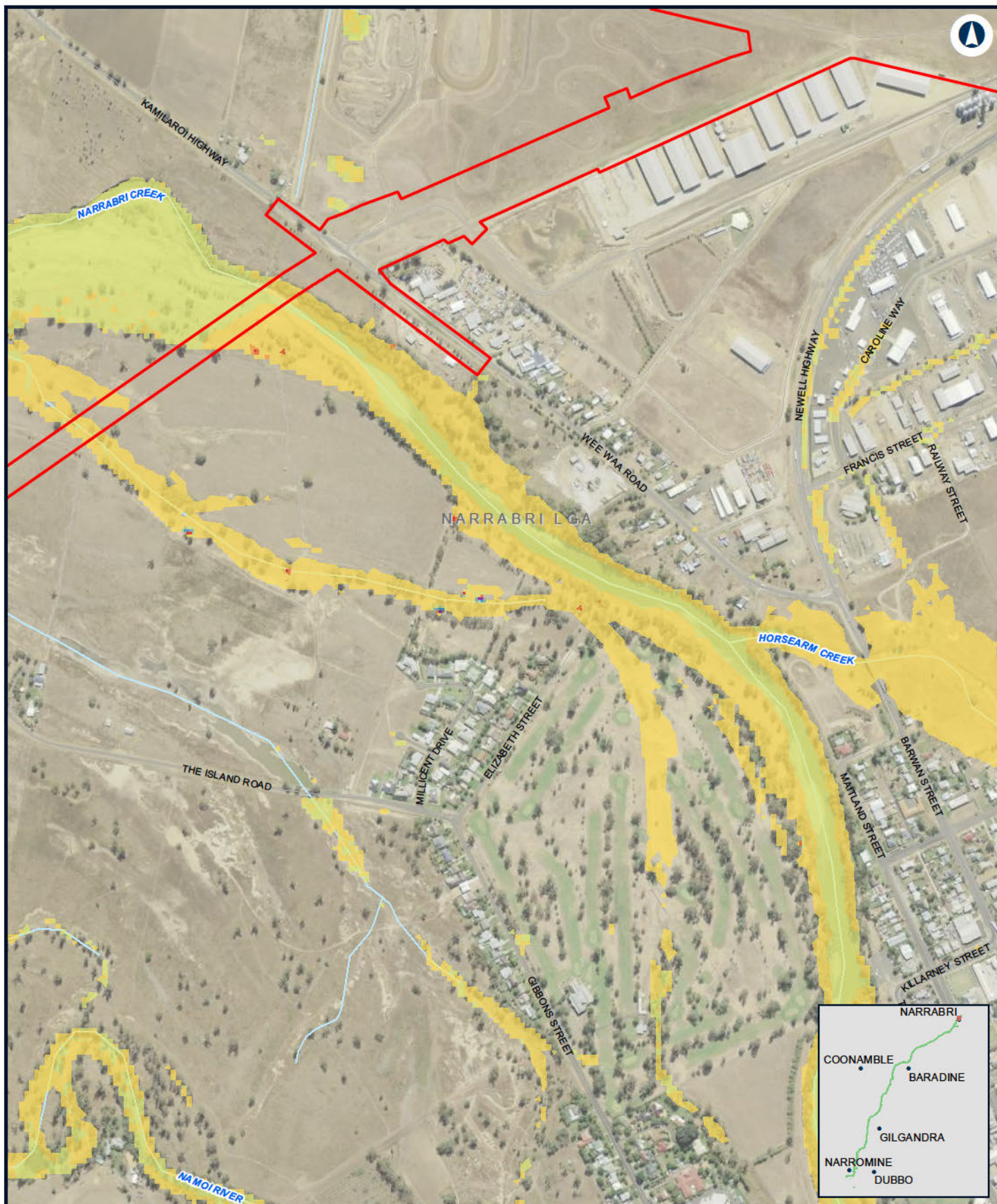
 12 hr - 24 hr increase

 > 24 hr increase

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NARROMINE TO NARRABRI

Change in duration - 5% AEP - Narrabri Local

Appendix A - Figure 2.19.5

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 16/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

 The proposal site

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 - 5% AEP - Narrabri Local

Appendix A - Figure 2.19.6

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 16/08/2022
Author: JacobsGHD

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

LEGEND

 The proposal site

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 - 5% AEP - Narrabri Local

Appendix A - Figure 2.19.7

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 16/08/2022 Paper: A4
Author: JacobsGHD Scale: 1:10,000

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

LEGEND

Duration Change

> 24 hr decrease	3 hr - 6 hr increase
12 hr - 24 hr decrease	6 hr - 12 hr increase
6 hr - 12 hr decrease	12 hr - 24 hr increase
3 hr - 6 hr decrease	> 24 hr increase
0 hr - 3 hr decrease	
0 hr - 3 hr increase	

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NARROMINE TO NARRABRI

Change in duration - 5% AEP - Narrabri Local

Appendix A - Figure 2.19.8

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 16/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:10,000

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

LEGEND

 The proposal site

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

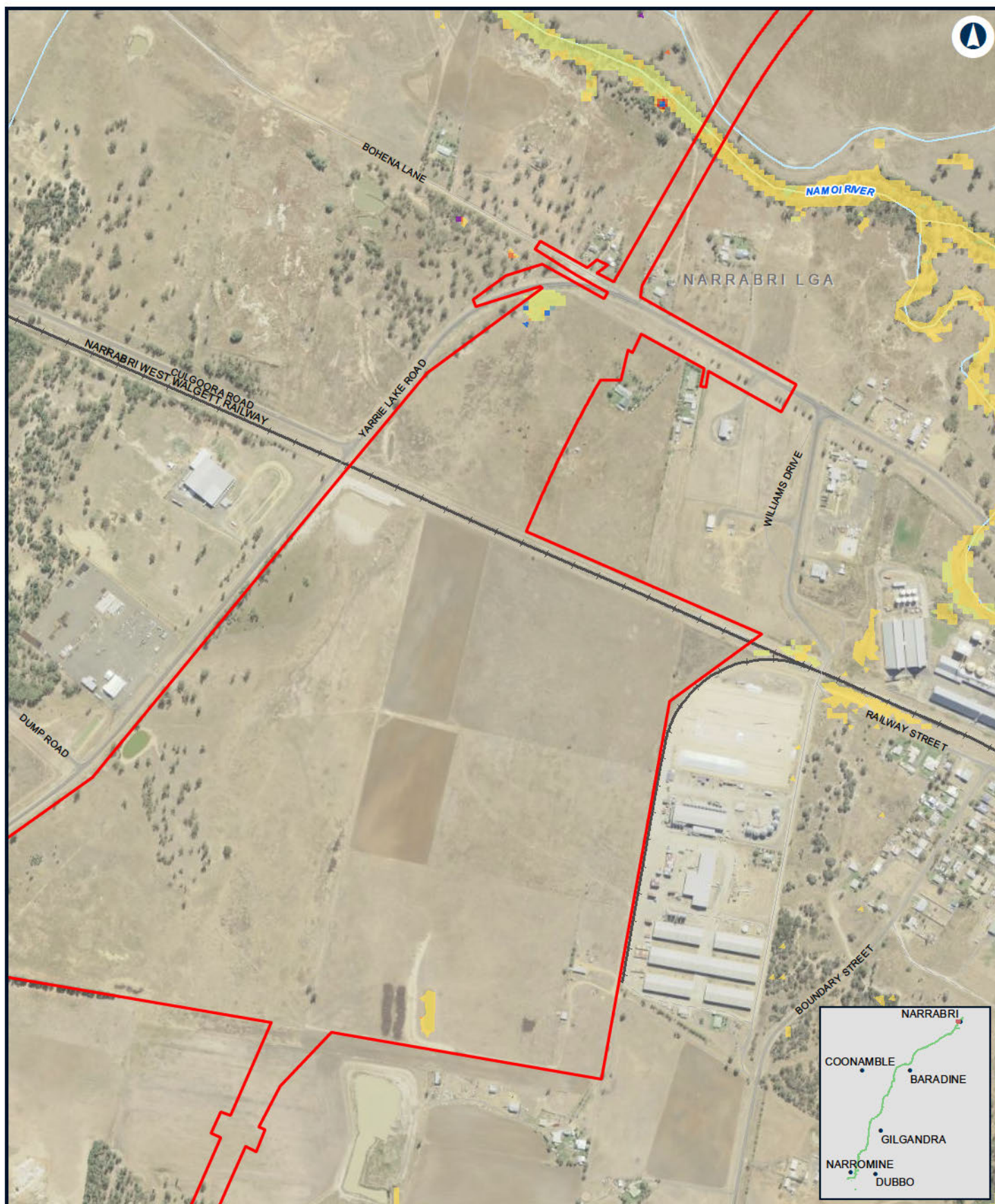
 6 hr - 12 hr increase

 12 hr - 24 hr increase

 > 24 hr increase

INLAND RAIL **ARTC**

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 duration - 5% AEP - Narrabri Local

Appendix A - Figure 2.19.9

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 16/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:10,000

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

LEGEND

 The proposal site

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

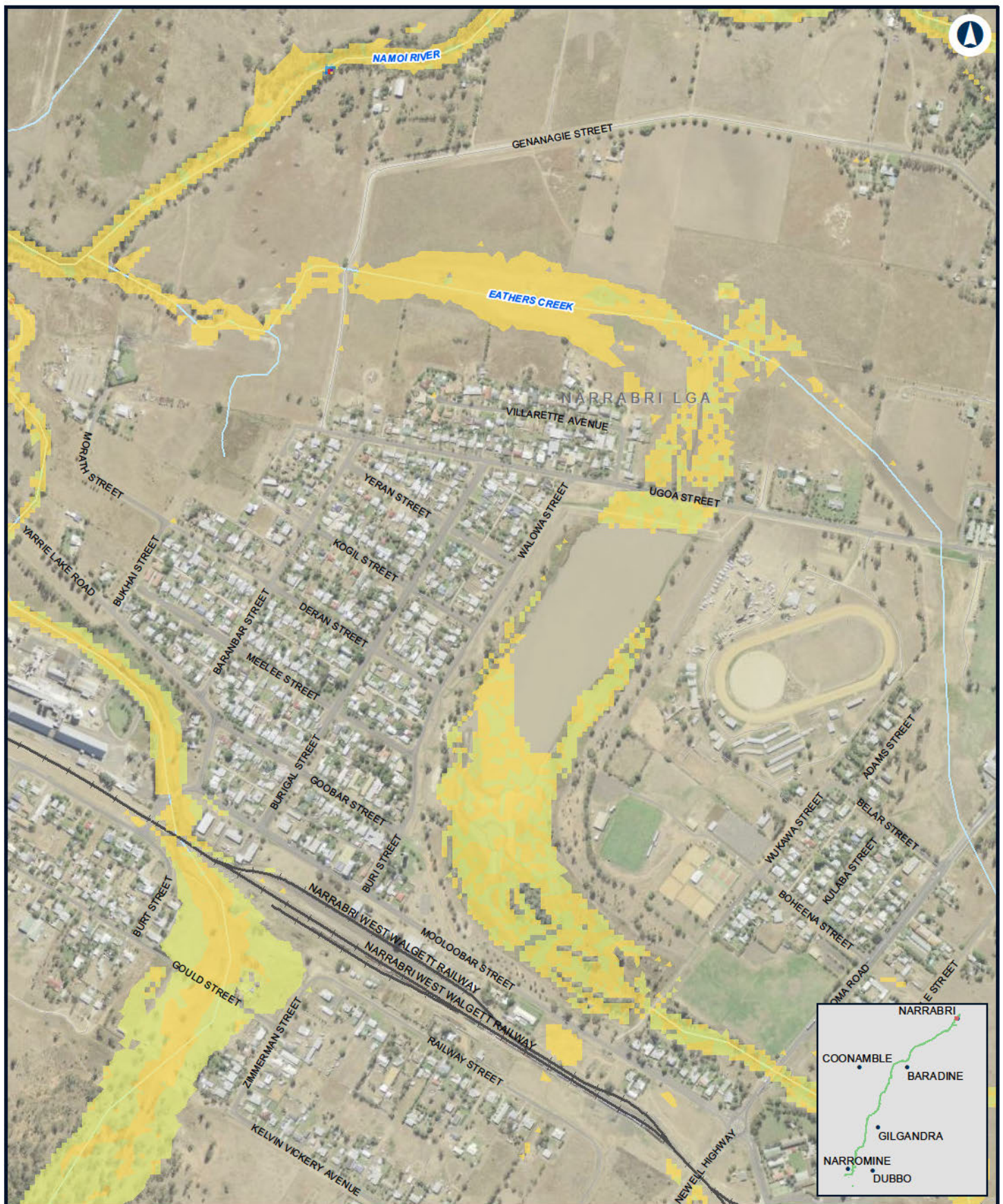
 12 hr - 24 hr increase

 > 24 hr increase

**INLAND
RAIL**

ARTC

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 duration - 5% AEP - Narrabri Local

Appendix A - Figure 2.19.10

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 16/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

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 - 5% AEP - Narrabri Local

Appendix A - Figure 2.19.11

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 16/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

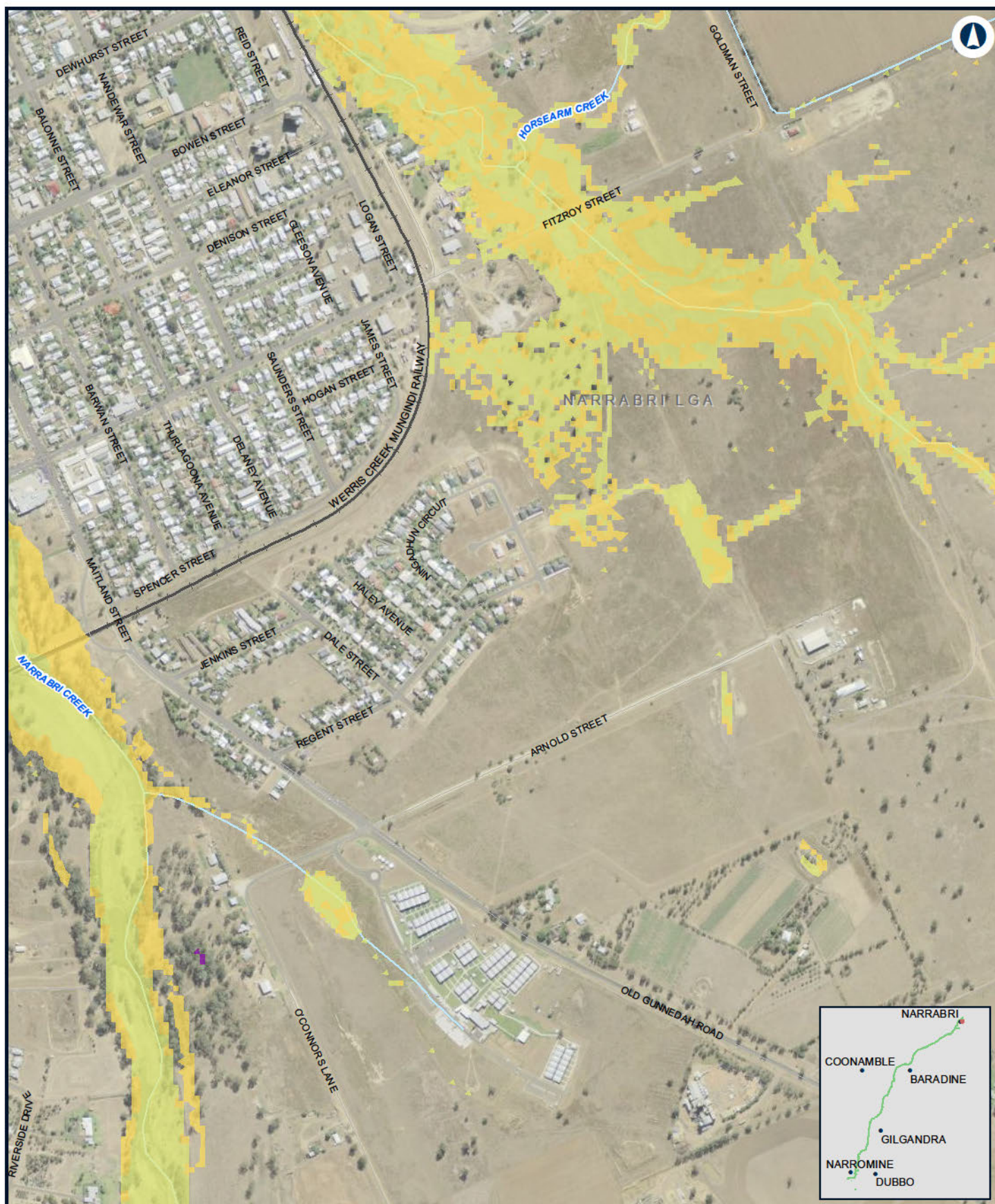
Duration Change

- > 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 - 5% AEP - Narrabri Local

Appendix A - Figure 2.19.12

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 16/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

Duration Change

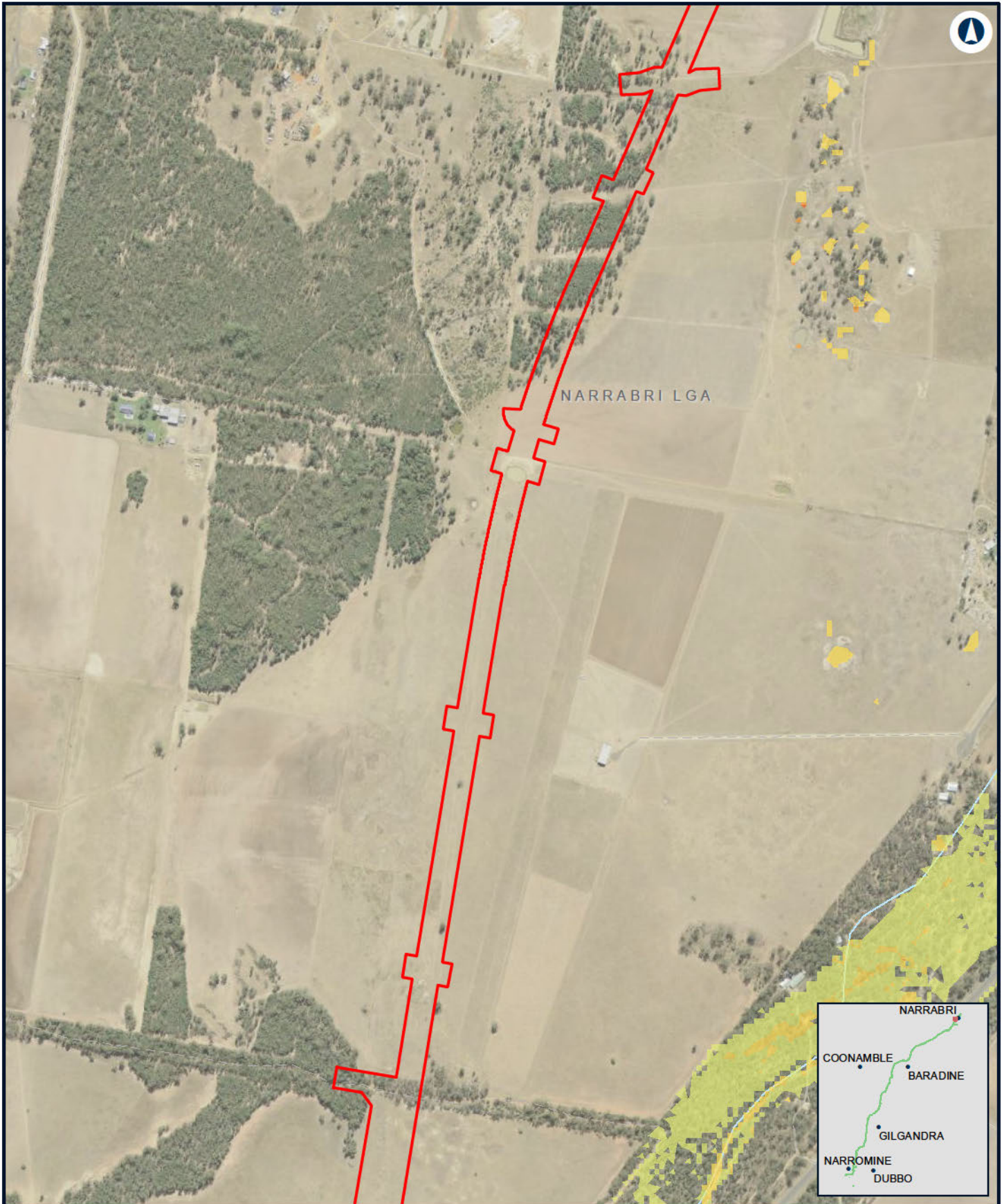
- > 24 hr decrease
- 12 hr - 24 hr decrease
- 6 hr - 12 hr decrease
- 3 hr - 6 hr decrease
- 0 hr - 3 hr decrease
- 0 hr - 3 hr increase

- 3 hr - 6 hr increase
- 6 hr - 12 hr increase
- 12 hr - 24 hr increase
- > 24 hr increase

**INLAND
RAIL**

ARTC

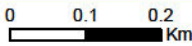
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NARROMINE TO NARRABRI

Change in duration - 5% AEP - Narrabri Local

Appendix A - Figure 2.19.13



Coordinate System: GDA 1994 MGA Zone 55
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 Date: 16/08/2022 Paper: A4
 Author: JacobsGHD Scale: 1:10,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND	
	The proposal site
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 - 5% AEP - Narrabri Local

Appendix A - Figure 2.19.14

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 16/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

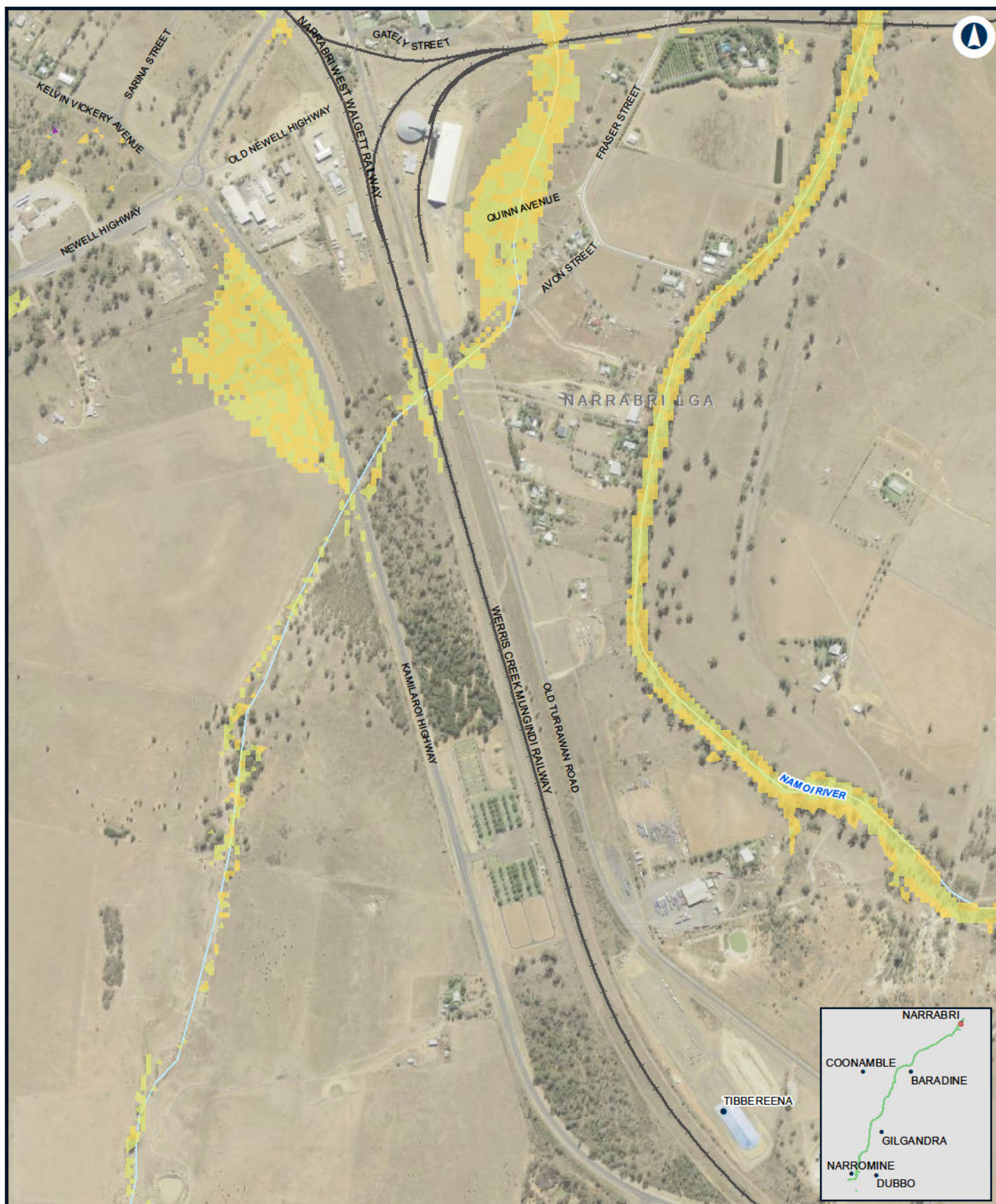
Duration Change

- > 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 - 5% AEP - Narrabri Local

Appendix A - Figure 2.19.15

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 16/08/2022 Paper: A4
Author: JacobsGHD Scale: 1:10,000

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

LEGEND

Duration Change

> 24 hr decrease	3 hr - 6 hr increase
12 hr - 24 hr decrease	6 hr - 12 hr increase
6 hr - 12 hr decrease	12 hr - 24 hr increase
3 hr - 6 hr decrease	> 24 hr increase
0 hr - 3 hr decrease	
0 hr - 3 hr increase	

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Change in duration - 5% AEP - Narrabri Local

Appendix A - Figure 2.19.16

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 16/08/2022 Paper: A4
Author: JacobsGHD Scale: 1:10,000

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

LEGEND

Duration Change

> 24 hr decrease	3 hr - 6 hr increase
12 hr - 24 hr decrease	6 hr - 12 hr increase
6 hr - 12 hr decrease	12 hr - 24 hr increase
3 hr - 6 hr decrease	> 24 hr increase
0 hr - 3 hr decrease	
0 hr - 3 hr increase	

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Change in flood hazard - 5% AEP - Narrabri Local

Appendix A - Figure 2.20.1

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 16/08/2022 Paper: A4
Author: JacobsGHD Scale: 1:10,000

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

LEGEND

 The proposal site

Hazard Change

- Was dry, now high
- Was low, now high
- Was dry, now low
- Unchanged
- Was low, now dry

- Was high, now low
- Was high, now dry

Low hazard includes hazard categories 1 and 2.
High hazard includes hazard categories 3, 4, 5 and 6.

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Change in flood hazard - 5% AEP - Narrabri Local

Appendix A - Figure 2.20.2

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 16/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

 The proposal site

Hazard Change

- Was dry, now high
- Was low, now high
- Was dry, now low
- Unchanged
- Was low, now dry

- Was high, now low
- Was high, now dry

Low hazard includes hazard categories 1 and 2.
High hazard includes hazard categories 3, 4, 5 and 6.

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NARRABRI TO NARRABRI

Change in flood hazard - 5% AEP - Narrabri Local

Appendix A - Figure 2.20.3

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 16/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

 The proposal site

Hazard Change

Was dry, now high

Was low, now high

Was dry, now low

Unchanged

Was low, now dry

Was high, now low

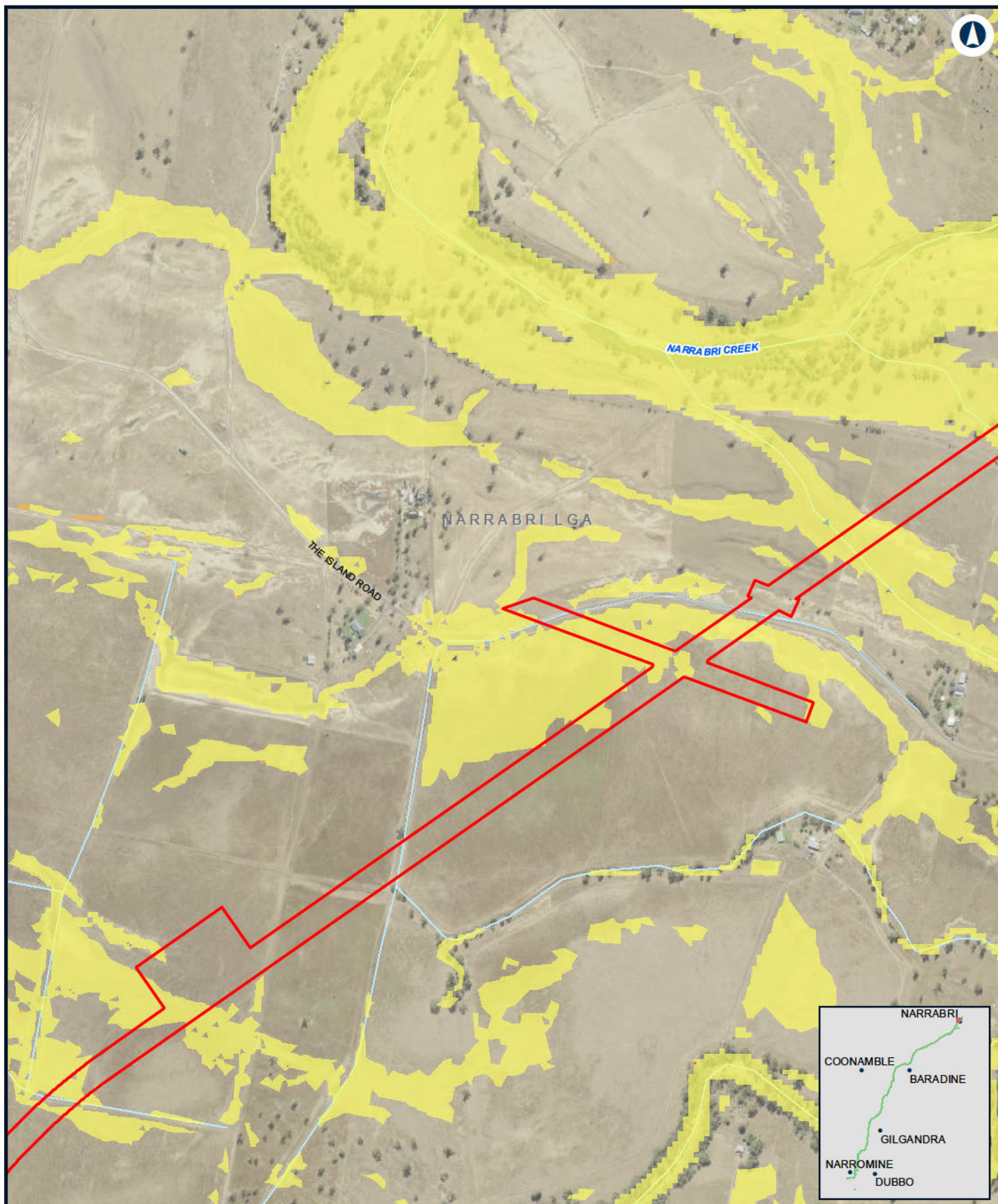
Was high, now dry

Low hazard includes hazard categories 1 and 2.
High hazard includes hazard categories 3, 4, 5 and 6.

**INLAND
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NARROMINE TO NARRABRI

Change in flood hazard - 5% AEP - Narrabri Local

Appendix A - Figure 2.20.4

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 16/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

 The proposal site

Hazard Change

- Was dry, now high
- Was low, now high
- Was dry, now low
- Unchanged
- Was low, now dry

Was high, now low

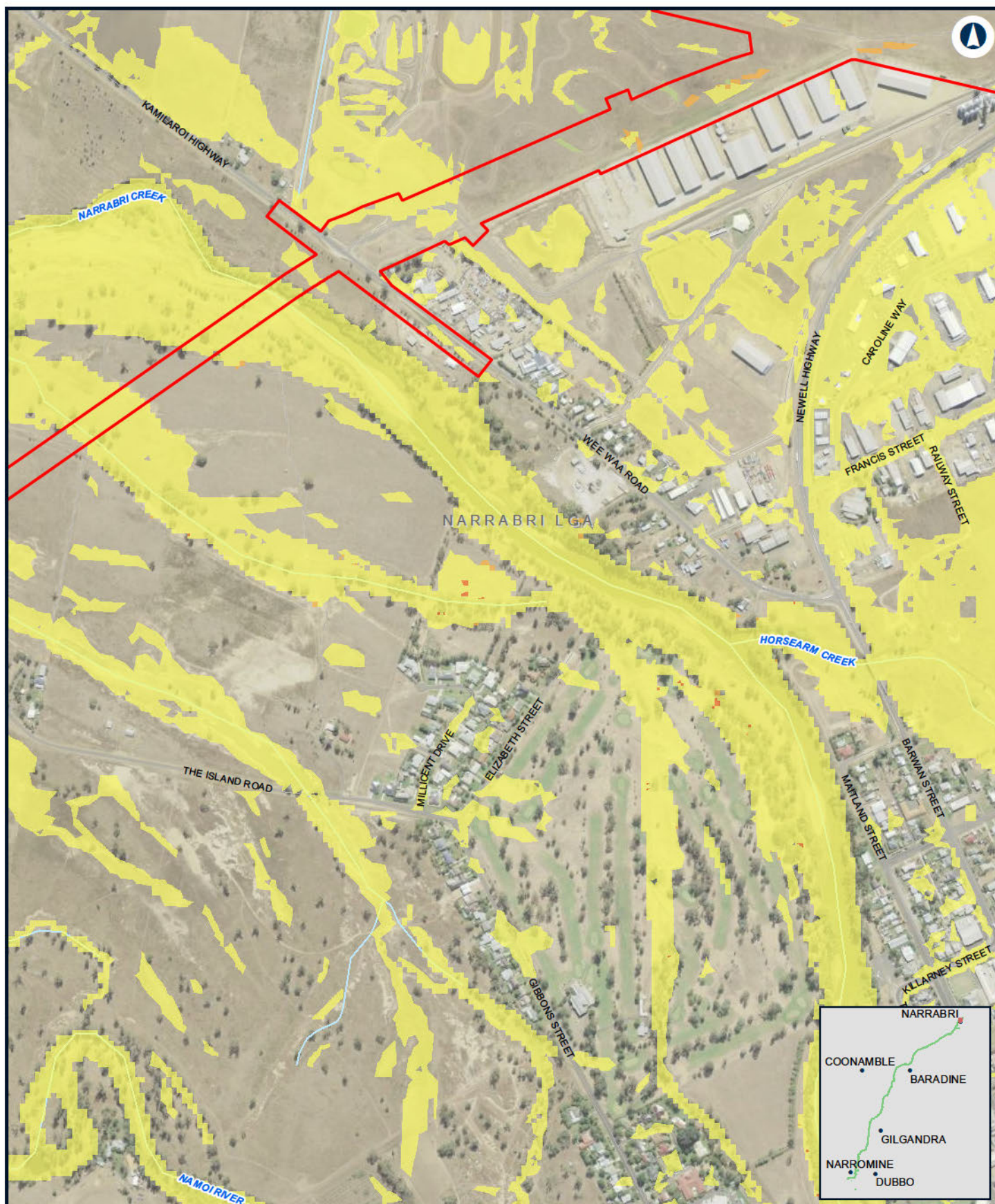
Was high, now dry

Low hazard includes hazard categories 1 and 2.
High hazard includes hazard categories 3, 4, 5 and 6.

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NARROMINE TO NARRABRI

Change in flood hazard - 5% AEP - Narrabri Local

Appendix A - Figure 2.20.5

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 16/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

 The proposal site

Hazard Change

Was dry, now high

Was low, now high

Was dry, now low

Unchanged

Was low, now dry

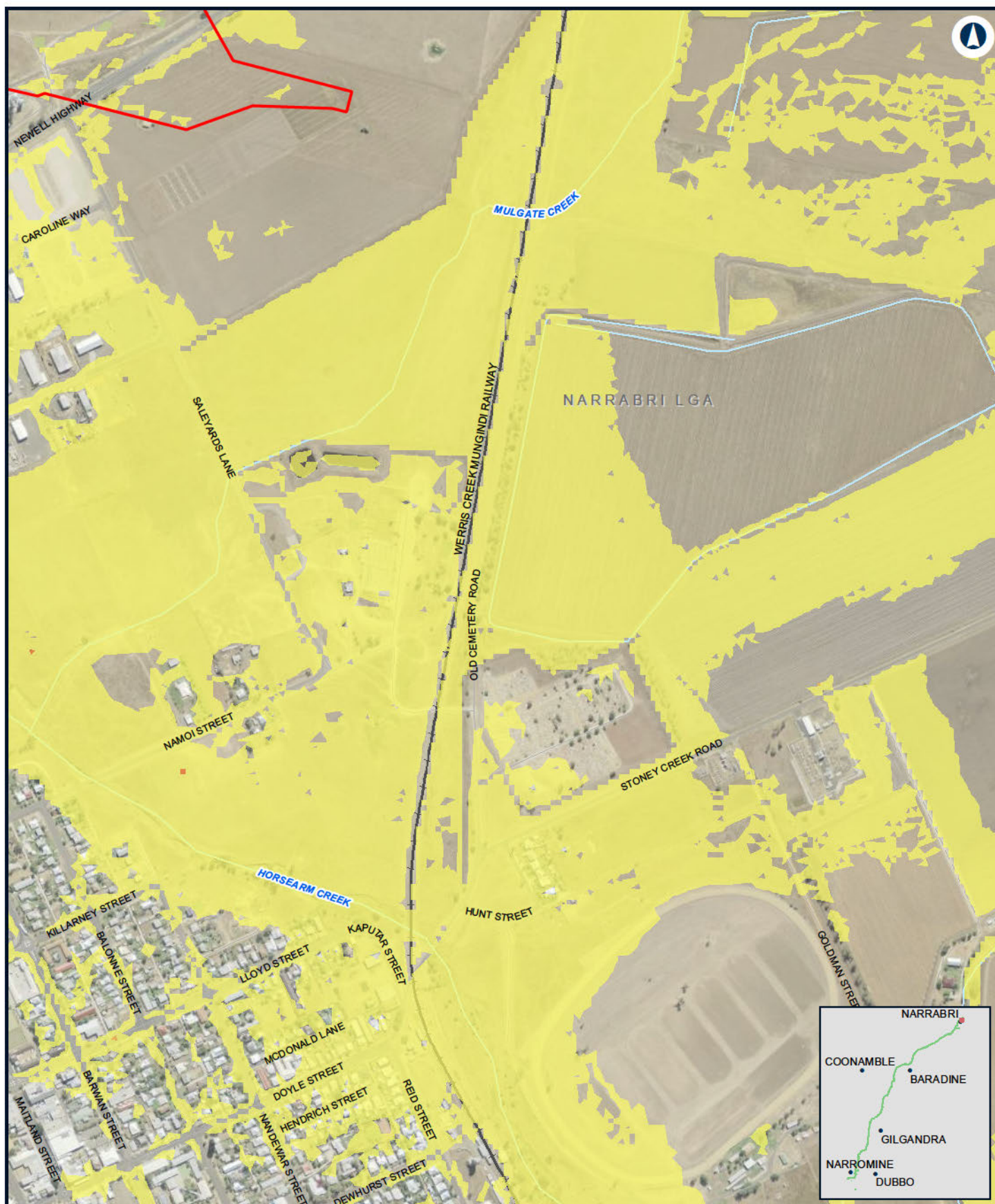
Was high, now low

Was high, now dry

Low hazard includes hazard categories 1 and 2.
High hazard includes hazard categories 3, 4, 5 and 6.

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Change in flood hazard - 5% AEP - Narrabri Local

Appendix A - Figure 2.20.6

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 16/08/2022 Paper: A4
Author: JacobsGHD Scale: 1:10,000

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

LEGEND

 The proposal site

Hazard Change

- Was dry, now high
- Was low, now high
- Was dry, now low
- Unchanged
- Was low, now dry

- Was high, now low
- Was high, now dry

Low hazard includes hazard categories 1 and 2.
High hazard includes hazard categories 3, 4, 5 and 6.

**INLAND
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NARROMINE TO NARRABRI

Change in flood hazard - 5% AEP - Narrabri Local

Appendix A - Figure 2.20.7

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 16/08/2022 Paper: A4
Author: JacobsGHD Scale: 1:10,000

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

LEGEND

Hazard Change

- Was dry, now high
- Was low, now high
- Was dry, now low
- Unchanged
- Was low, now dry
- Was high, now low

Was high, now dry

Low hazard includes hazard categories 1 and 2.
High hazard includes hazard categories 3, 4, 5 and 6.

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Change in flood hazard - 5% AEP - Narrabri Local

Appendix A - Figure 2.20.8

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 16/08/2022 Paper: A4
Author: JacobsGHD Scale: 1:10,000

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

LEGEND

 The proposal site

Hazard Change

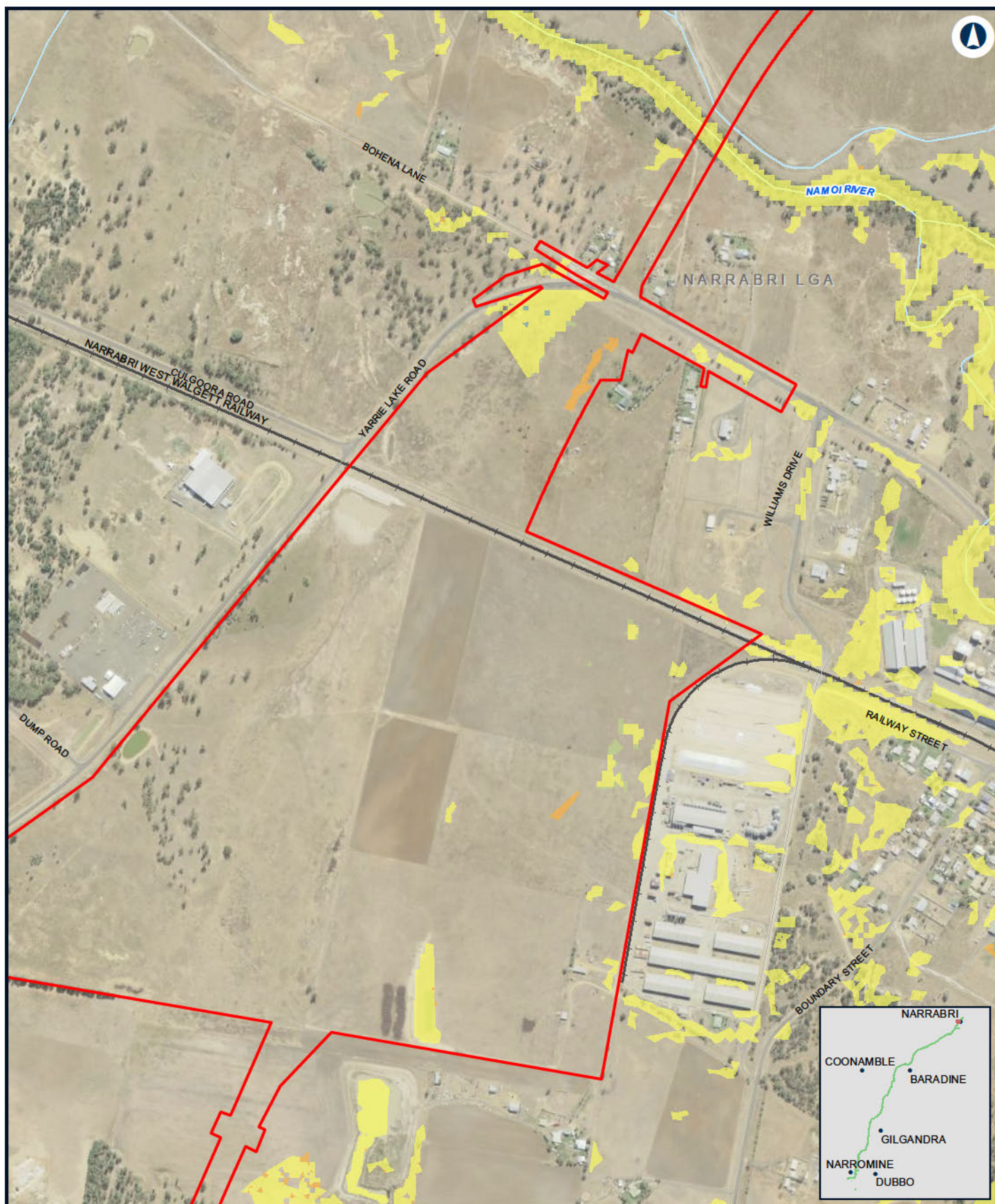
- Was dry, now high
- Was low, now high
- Was dry, now low
- Unchanged
- Was low, now dry

- Was high, now low
- Was high, now dry

Low hazard includes hazard categories 1 and 2.
High hazard includes hazard categories 3, 4, 5 and 6.

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Change in flood hazard - 5% AEP - Narrabri Local

Appendix A - Figure 2.20.9

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 16/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

 The proposal site

Hazard Change

Was dry, now high

Was low, now high

Was dry, now low

Unchanged

Was low, now dry

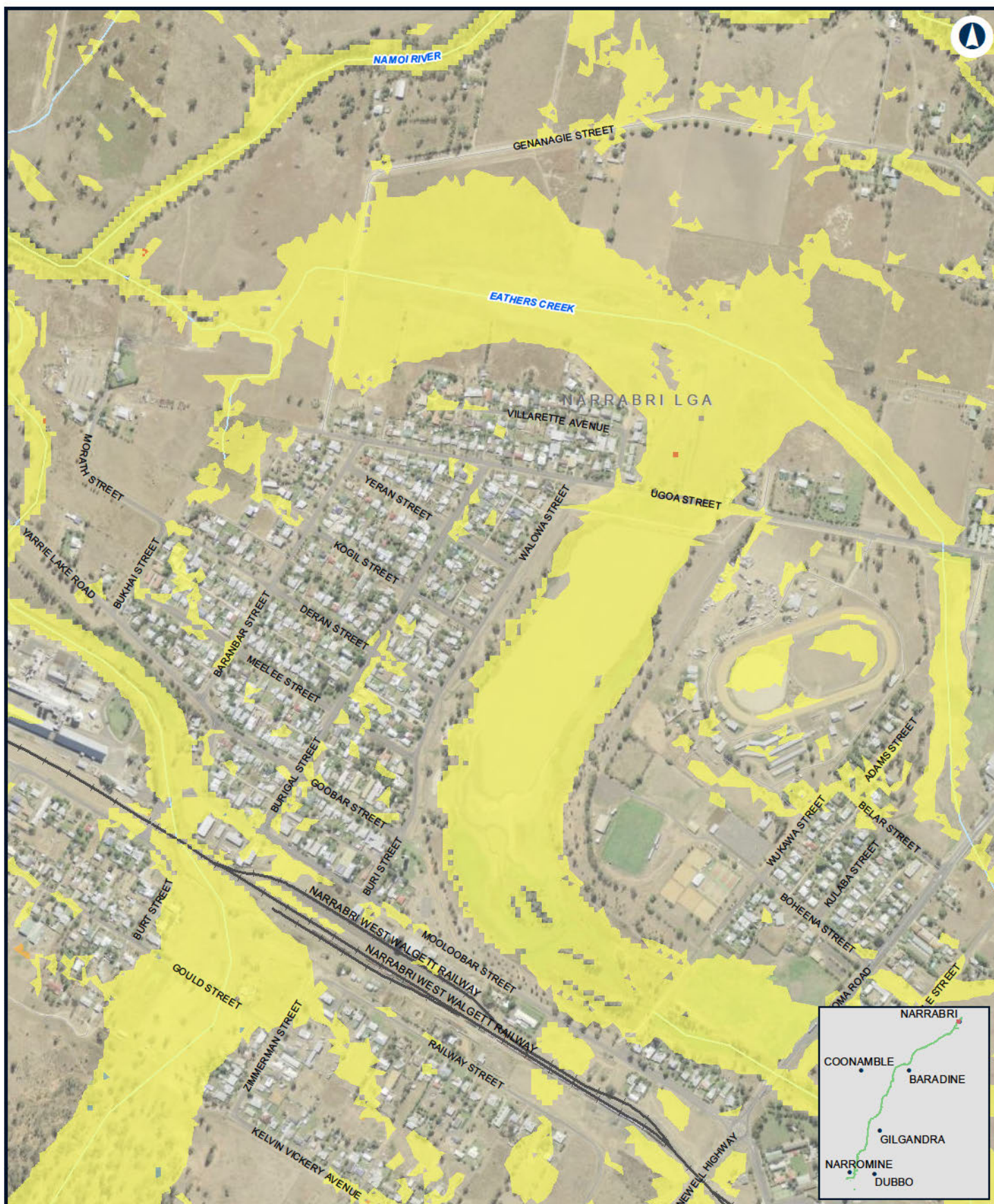
Was high, now low

Was high, now dry

Low hazard includes hazard categories 1 and 2.
High hazard includes hazard categories 3, 4, 5 and 6.

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Change in flood hazard - 5% AEP - Narrabri Local

Appendix A - Figure 2.20.10

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 16/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

Hazard Change

- Was dry, now high
- Was low, now high
- Was dry, now low
- Unchanged
- Was low, now dry
- Was high, now low

Was high, now dry

Low hazard includes hazard categories 1 and 2.
High hazard includes hazard categories 3, 4, 5 and 6.

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NARROMINE TO NARRABRI

Change in flood hazard - 5% AEP - Narrabri Local

Appendix A - Figure 2.20.11

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 16/08/2022 Paper: A4
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

Hazard Change

- Was dry, now high
- Was low, now high
- Was dry, now low
- Unchanged
- Was low, now dry
- Was high, now low

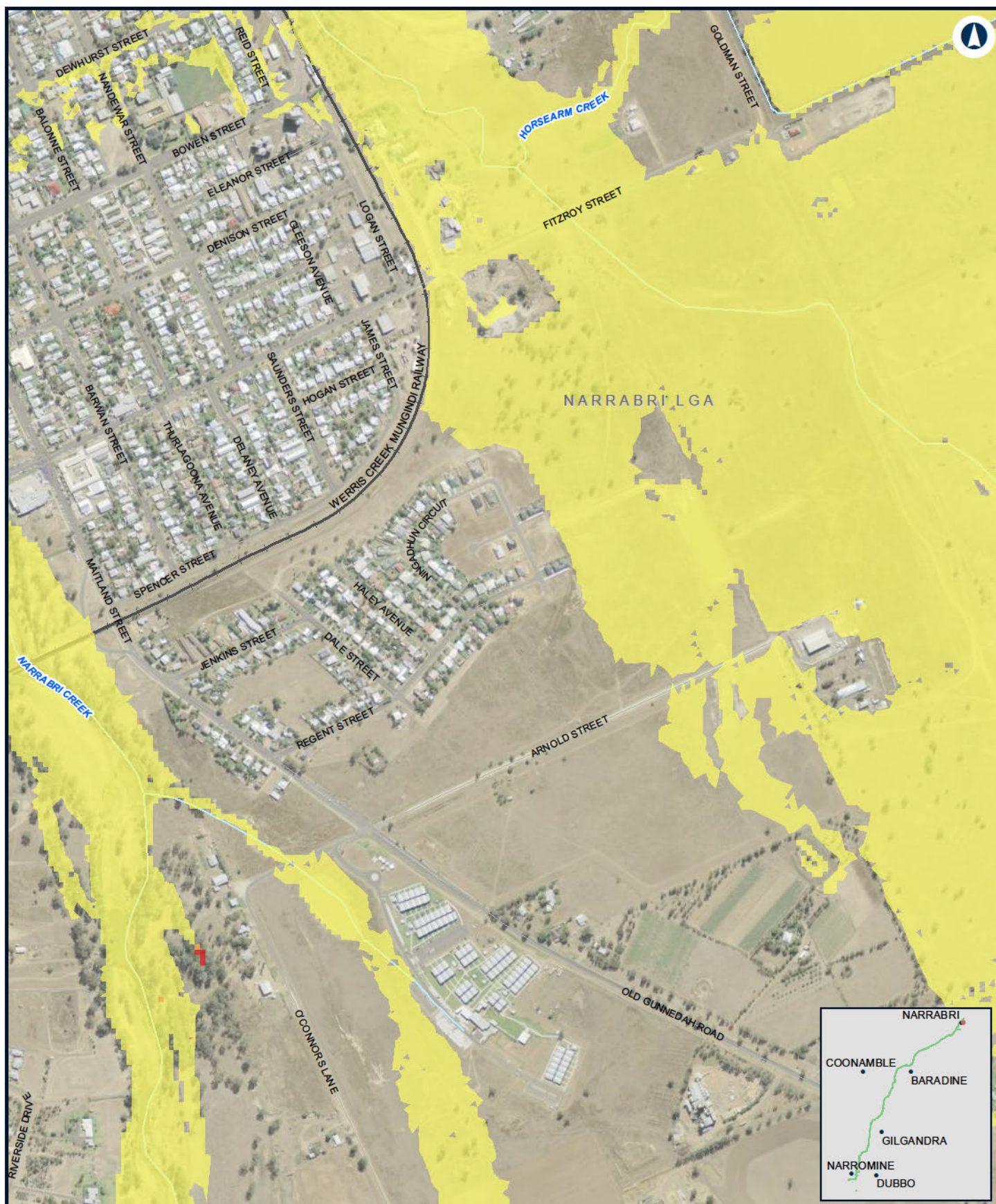
Was high, now dry

Low hazard includes hazard categories 1 and 2.
High hazard includes hazard categories 3, 4, 5 and 6.

**INLAND
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NARROMINE TO NARRABRI

Change in flood hazard - 5% AEP - Narrabri Local

Appendix A - Figure 2.20.12

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 16/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

Hazard Change

- Was dry, now high
- Was low, now high
- Was dry, now low
- Unchanged
- Was low, now dry
- Was high, now low

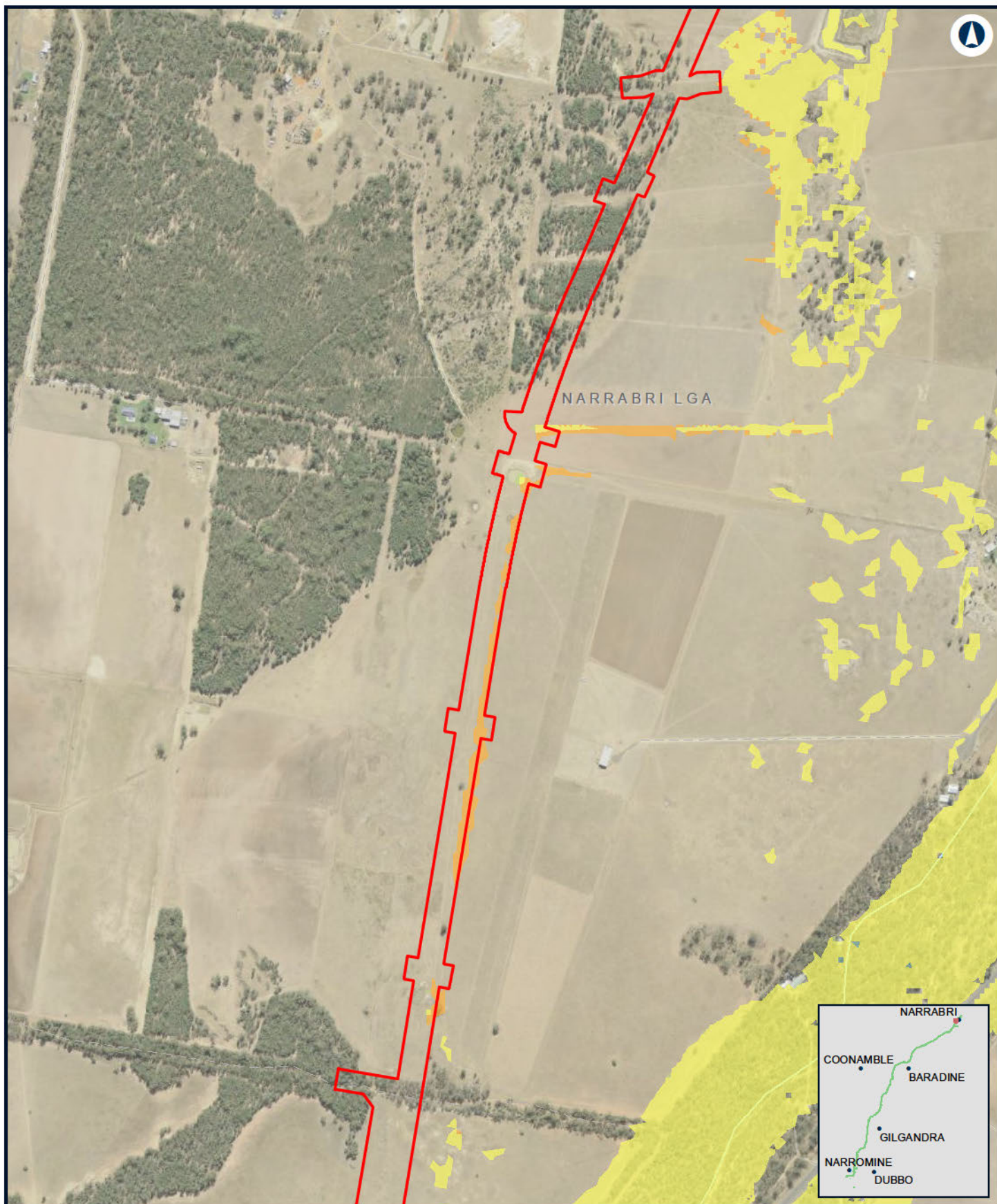
Was high, now dry

Low hazard includes hazard categories 1 and 2.
High hazard includes hazard categories 3, 4, 5 and 6.

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NARROMINE TO NARRABRI

Change in flood hazard - 5% AEP - Narrabri Local

Appendix A - Figure 2.20.13

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 16/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

 The proposal site

Hazard Change

Was dry, now high

Was low, now high

Was dry, now low

Unchanged

Was low, now dry

Was high, now low

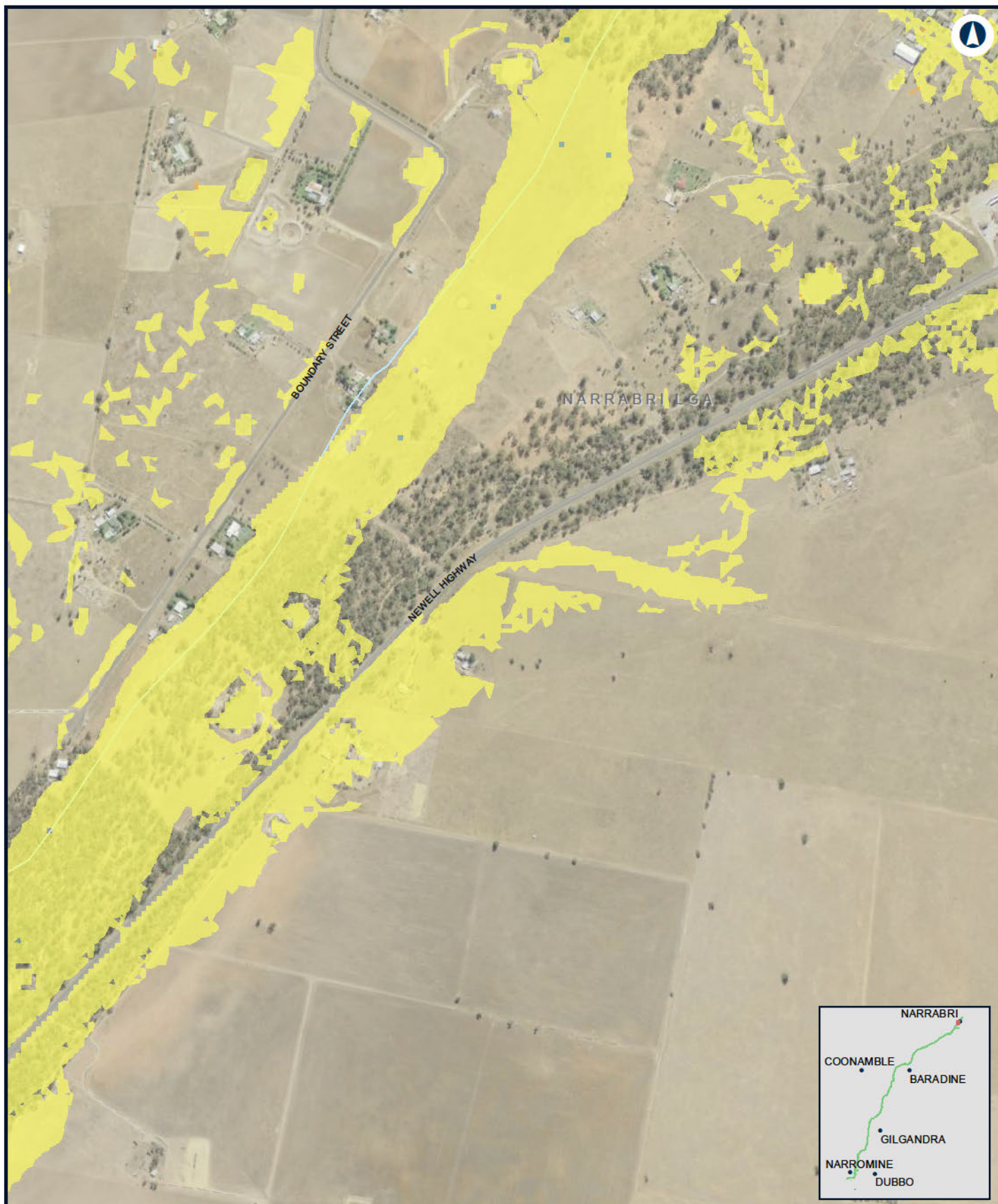
Was high, now dry

Low hazard includes hazard categories 1 and 2.
High hazard includes hazard categories 3, 4, 5 and 6.

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NARROMINE TO NARRABRI

Change in flood hazard - 5% AEP - Narrabri Local

Appendix A - Figure 2.20.14

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 16/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

Hazard Change

- Was dry, now high
- Was low, now high
- Was dry, now low
- Unchanged
- Was low, now dry
- Was high, now low

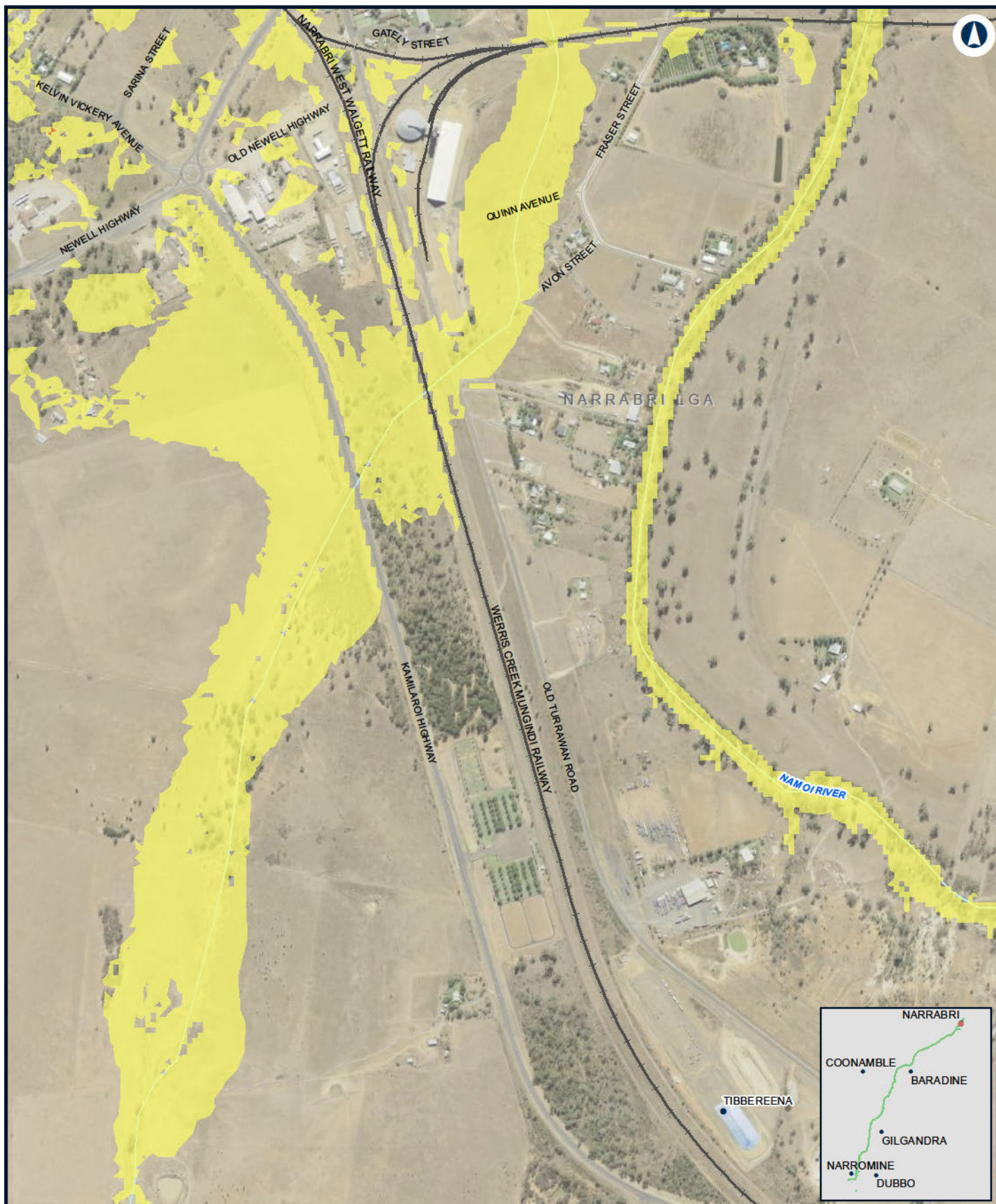
■ Was high, now dry

Low hazard includes hazard categories 1 and 2.
High hazard includes hazard categories 3, 4, 5 and 6.

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NARROMINE TO NARRABRI

Change in flood hazard - 5% AEP - Narrabri Local

Appendix A - Figure 2.20.15

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 16/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

Hazard Change

- Was dry, now high
- Was low, now high
- Was dry, now low
- Unchanged
- Was low, now dry
- Was high, now low

Was high, now dry

Low hazard includes hazard categories 1 and 2.
High hazard includes hazard categories 3, 4, 5 and 6.

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NARRABRI TO NARRABRI

Change in flood hazard - 5% AEP - Narrabri Local

Appendix A - Figure 2.20.16

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 16/08/2022 Paper: A4
Author: JacobsGHD Scale: 1:10,000

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

LEGEND

Hazard Change

- Was dry, now high
- Was low, now high
- Was dry, now low
- Unchanged
- Was low, now dry
- Was high, now low

Was high, now dry

Low hazard includes hazard categories 1 and 2.
High hazard includes hazard categories 3, 4, 5 and 6.

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