

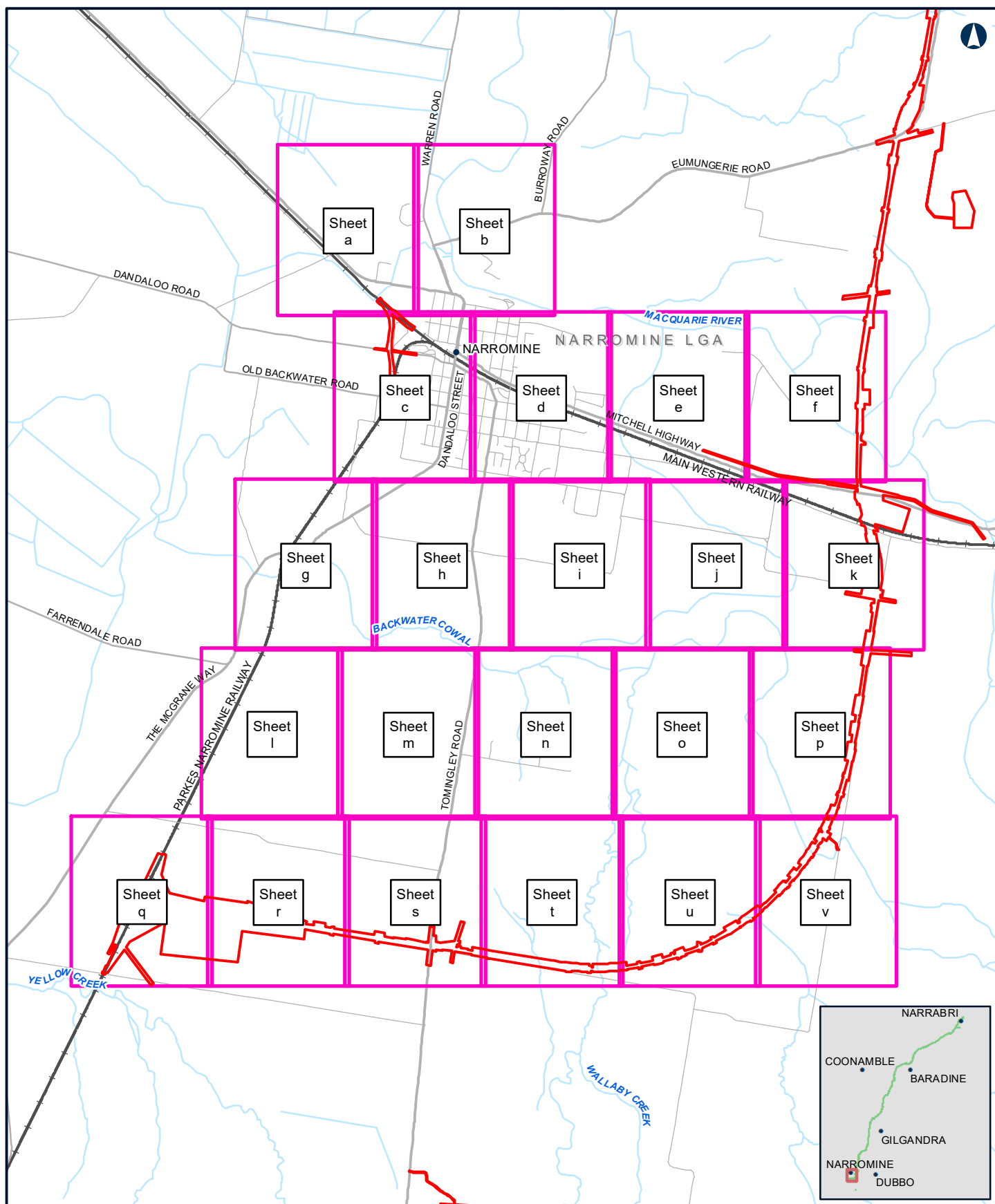
TECHNICAL REPORT 03

Updated flooding and hydrology assessment

Appendix H Detailed operational flood mapping for Narromine and Narrabri

NARROMINE TO NARRABRI PROJECT





NARROMINE TO NARRABRI

Map index sheet - Narromine

Appendix H - Index Sheet 1

0 0.95 1.9
Km

LEGEND

The proposal site

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/01/2022

Paper: A4

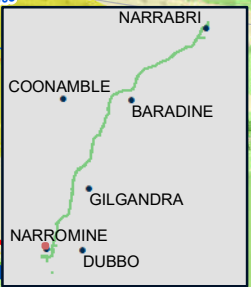
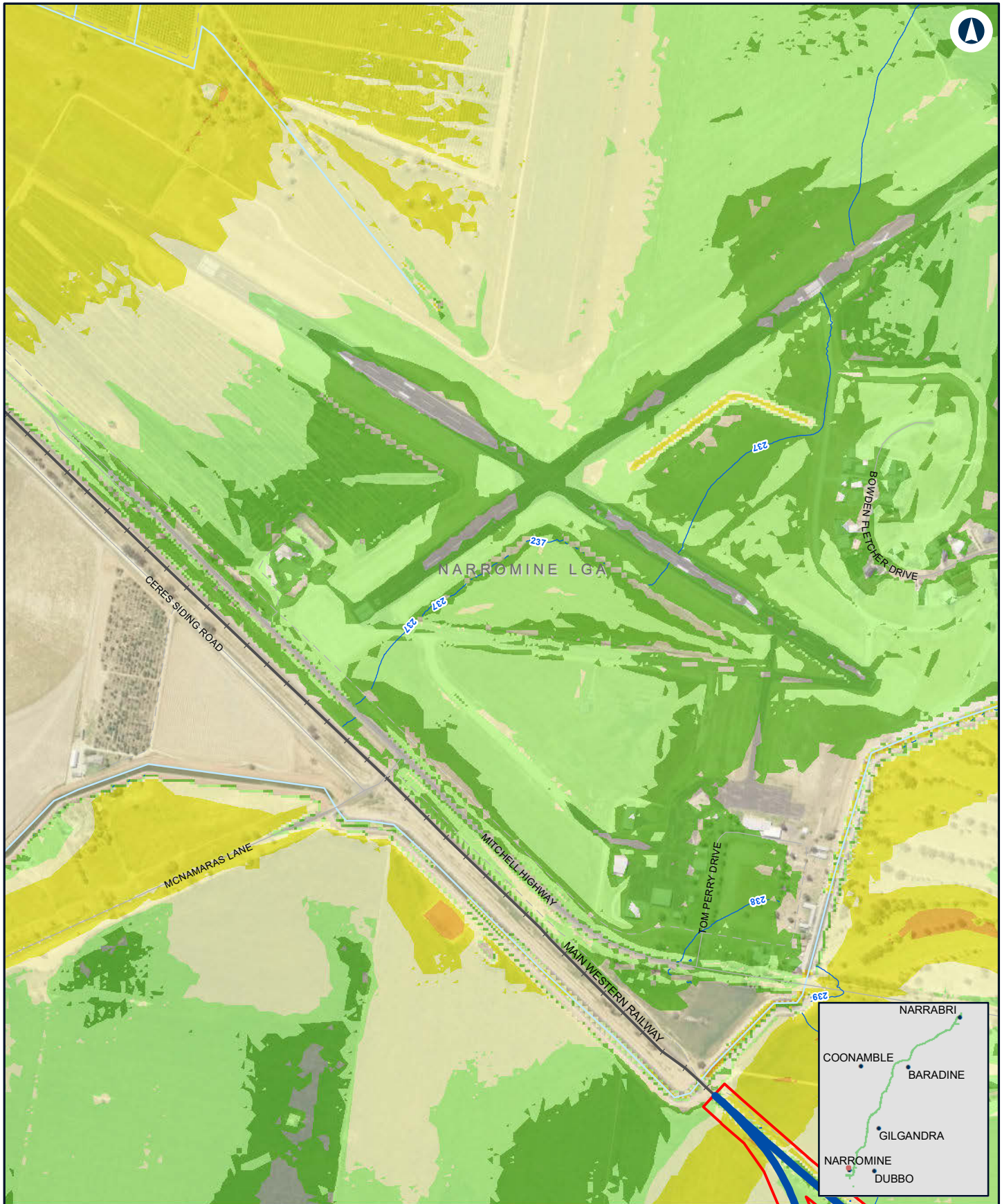
Author: JacobsGHD

Scale: 1:70,000

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

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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.1a



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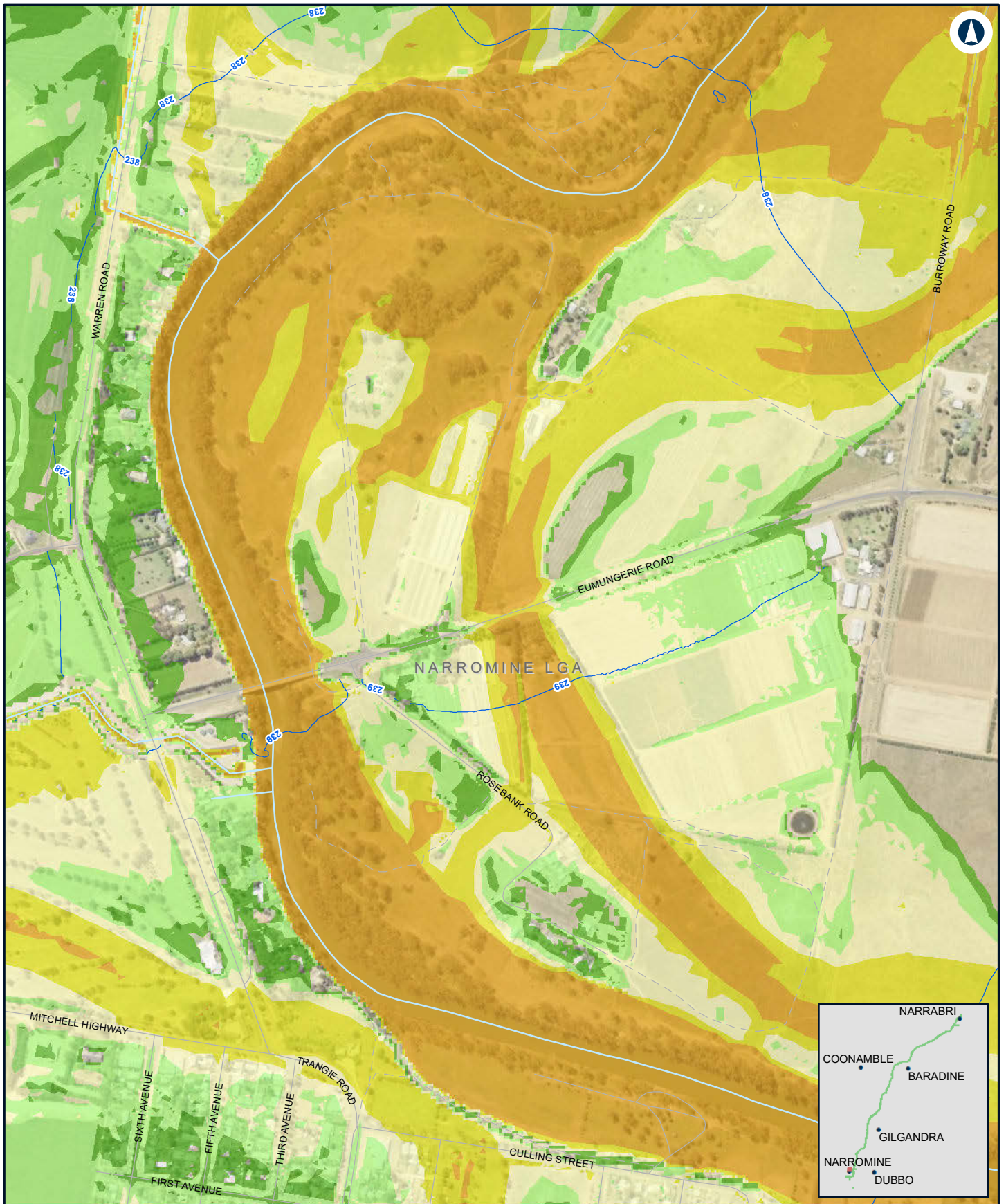
Date: 9/02/2022
 Author: JacobsGHD
 Data Sources: Basemap layers: NSWSS;

LEGEND

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



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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.1b

0 0.1 0.2
Km

LEGEND

— Flood level (mAHD)

Flood depth

- 0.0m - 0.25m
- 0.25m - 0.5m
- 0.5m - 1.0m
- 1.0m - 2.0m
- > 2.0m

Coordinate System: GDA 1994 MGA Zone 55

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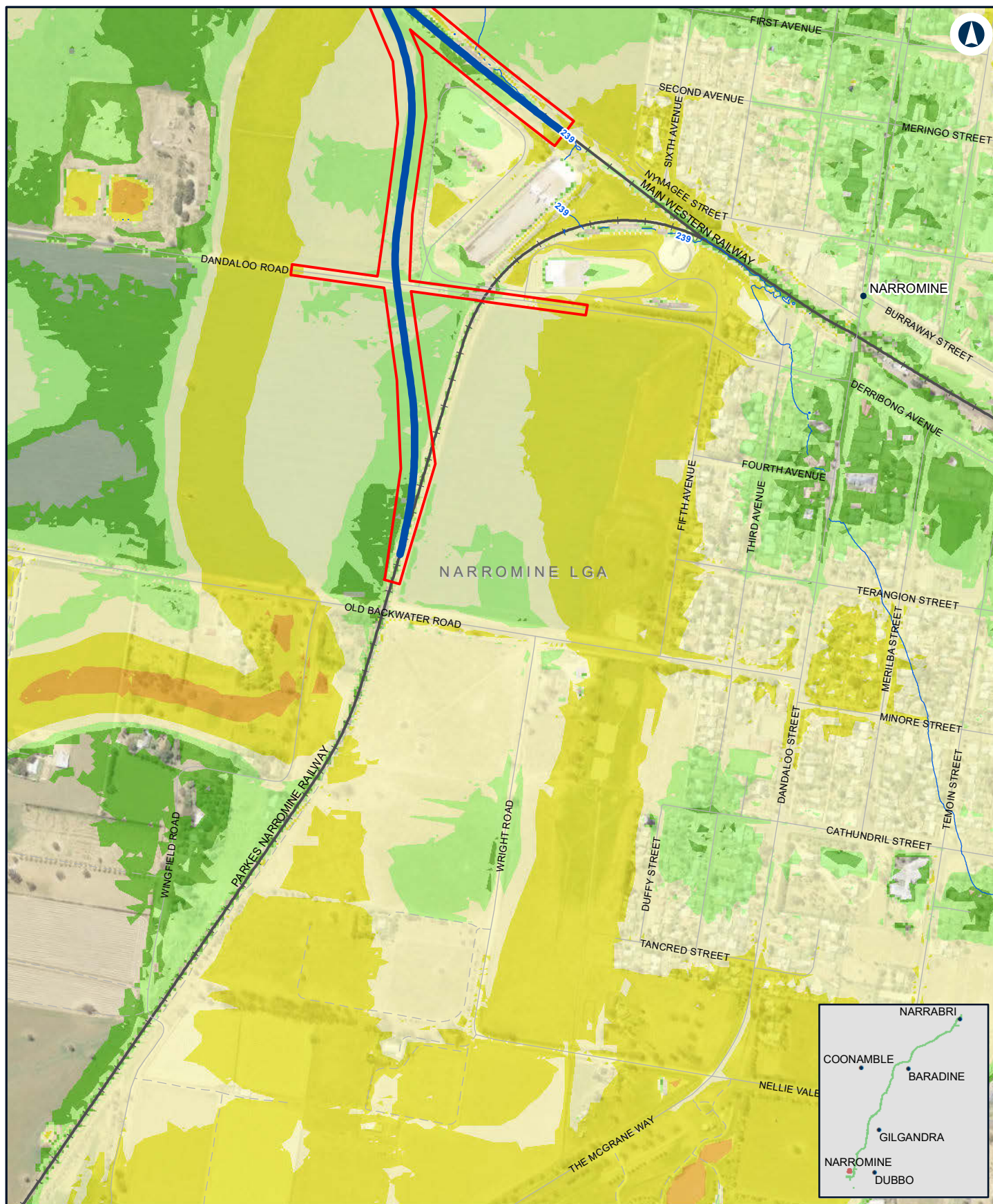
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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.1c

0 0.1 0.2
Km

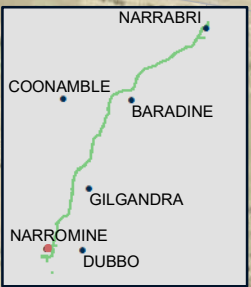
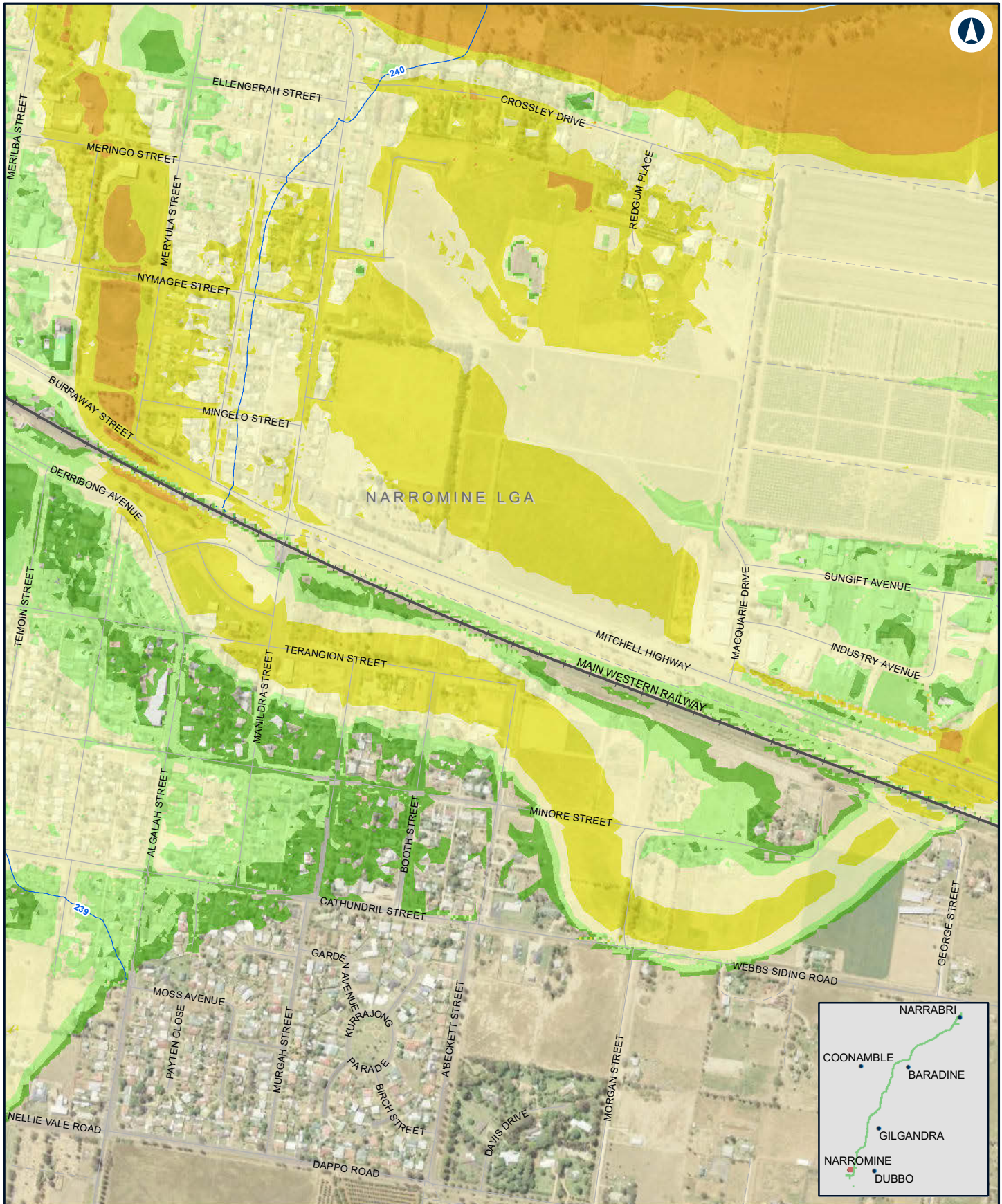
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Author: JacobsGHD
Data Sources: Basemap layers: NSWSS;

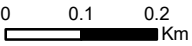
Paper: A4
Scale: 1:10,000



NARROMINE TO NARRABRI

Existing peak depth / level (contour) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.1d



LEGEND

Flood level (mAHD)	Flood depth
—	0.0m - 0.25m
—	0.25m - 0.5m
—	0.5m - 1.0m
—	1.0m - 2.0m
—	> 2.0m

Coordinate System: GDA 1994 MGA Zone 55

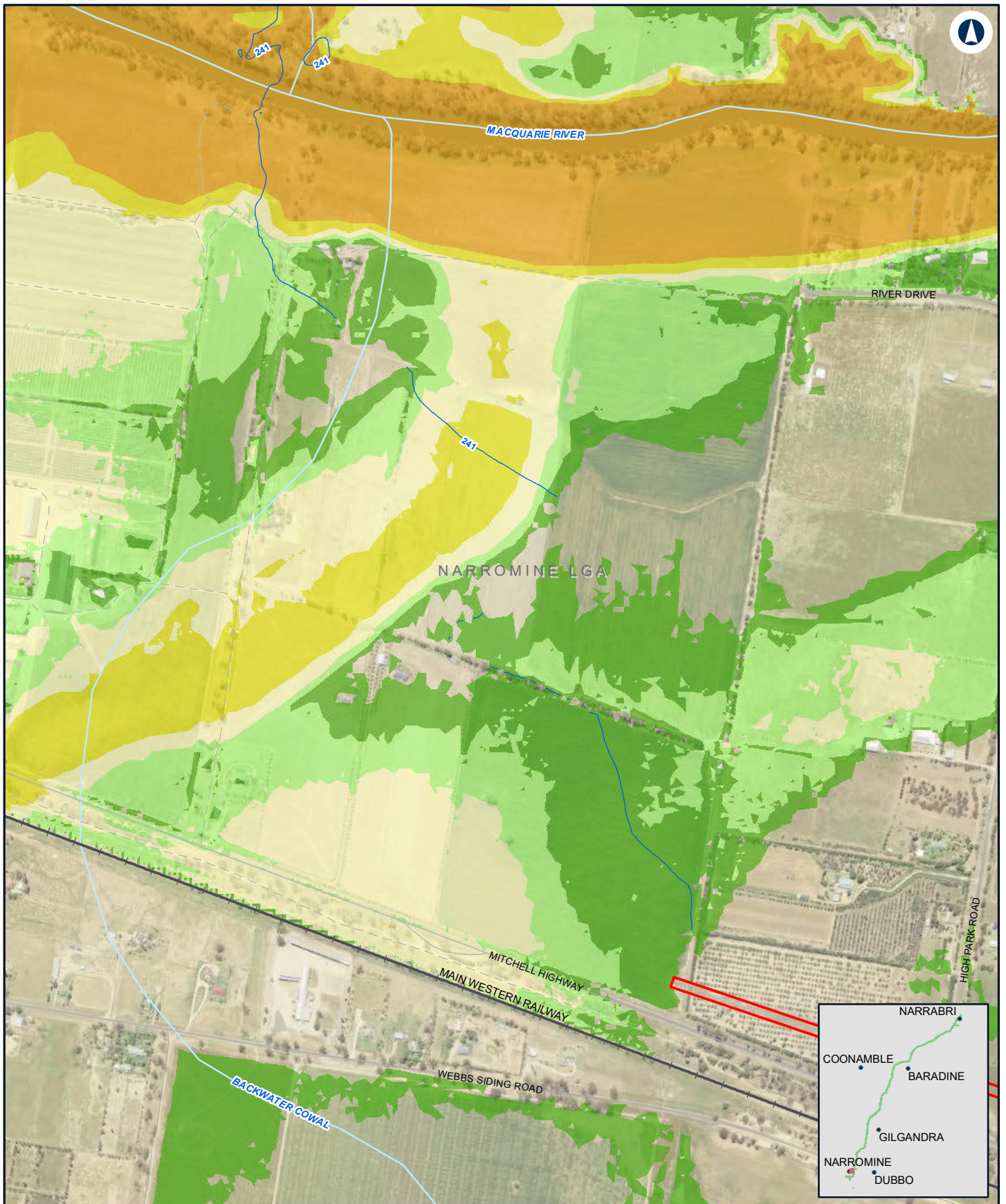
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 Author: JacobsGHD
 Data Sources: Basemap layers: NSWSS;



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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.1e

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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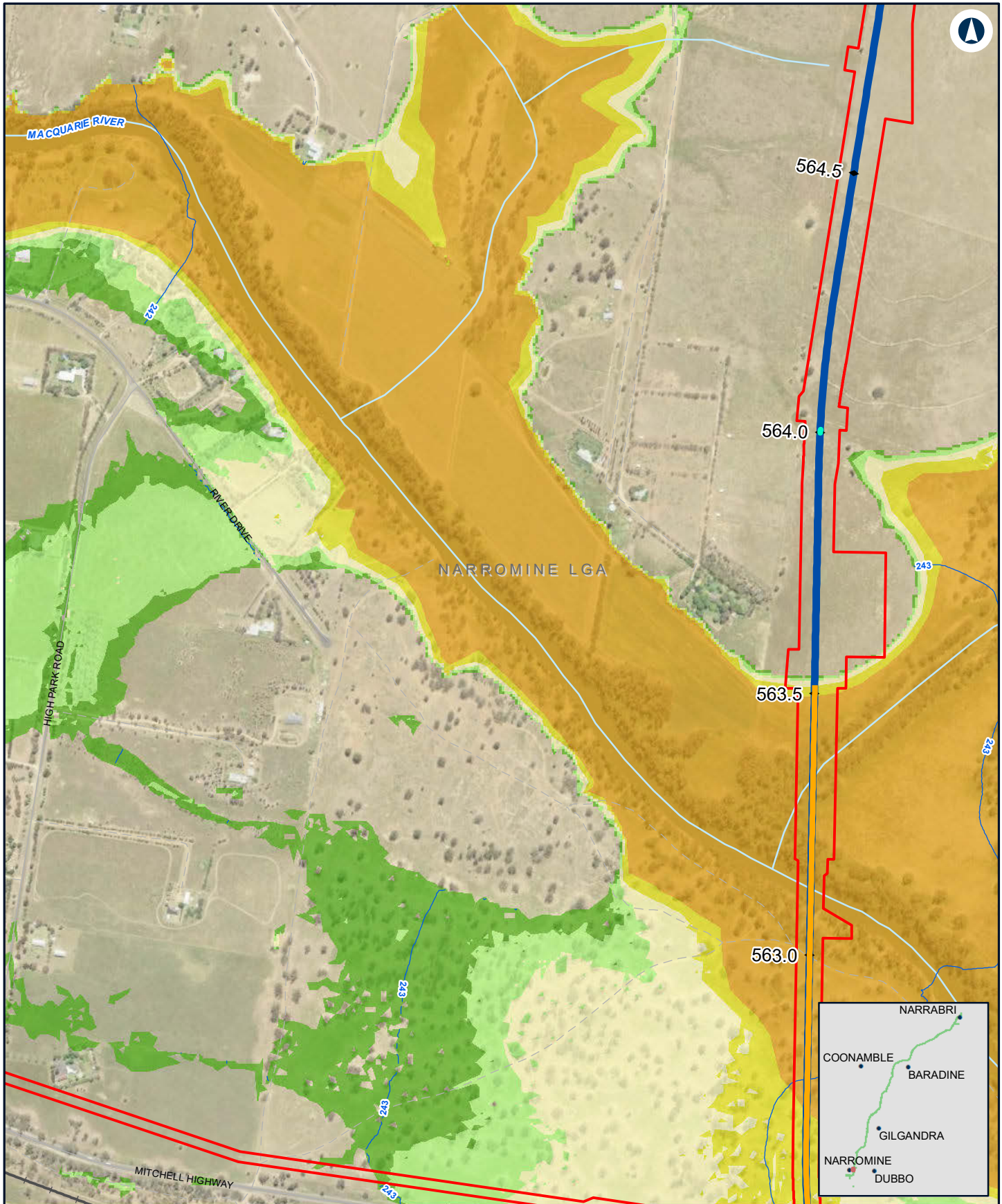
Date: 9/02/2022 Paper: A4
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS;

LEGEND

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

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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.1f

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 9/02/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

Data Sources: Basemap layers: NSWSS;

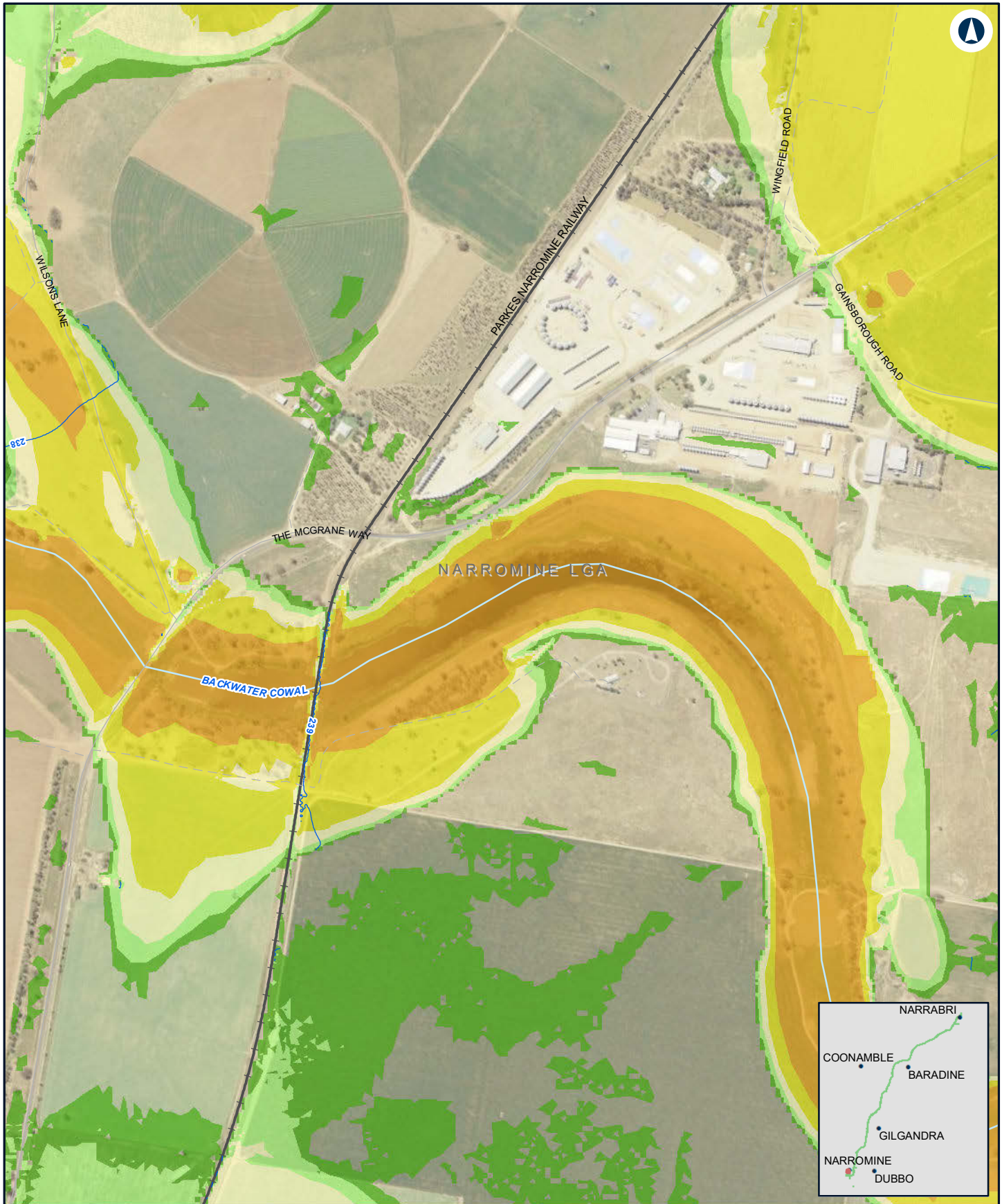
LEGEND

- | | |
|----------------------|--------------------|
| — Flood level (mAHD) | Flood depth |
| — Bridge | 0.0m - 0.25m |
| — Culvert | 0.25m - 0.5m |
| — Alignment | 0.5m - 1.0m |
| — The proposal | 1.0m - 2.0m |
| | > 2.0m |

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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.1g

0 0.1 0.2
Km

LEGEND

— Flood level (mAHD)

Flood depth

- 0.0m - 0.25m
- 0.25m - 0.5m
- 0.5m - 1.0m
- 1.0m - 2.0m
- > 2.0m

Coordinate System: GDA 1994 MGA Zone 55

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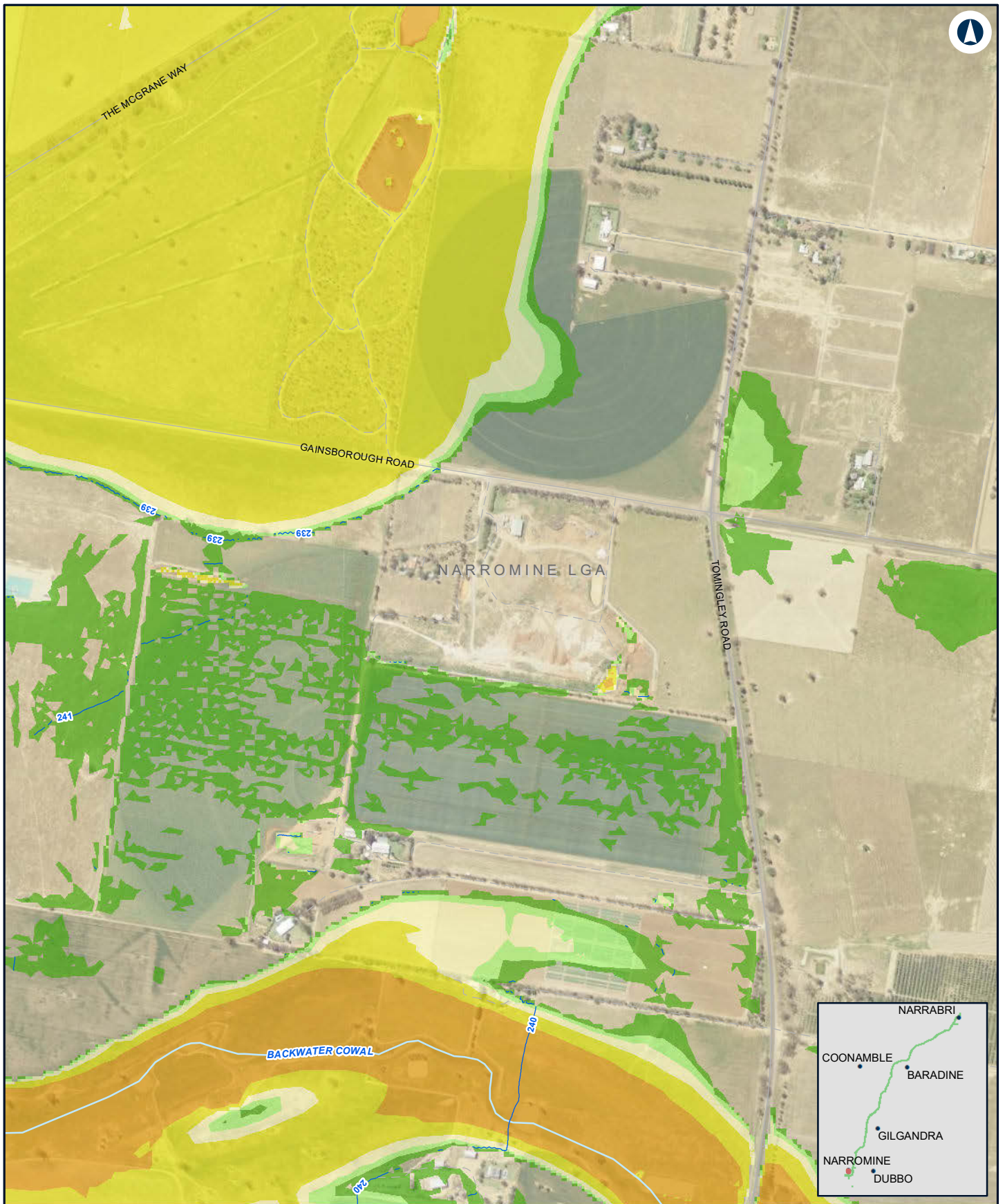
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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.1h

0 0.1 0.2
Km

LEGEND

— Flood level (mAHD) Flood depth

- 0.0m - 0.25m
- 0.25m - 0.5m
- 0.5m - 1.0m
- 1.0m - 2.0m
- > 2.0m

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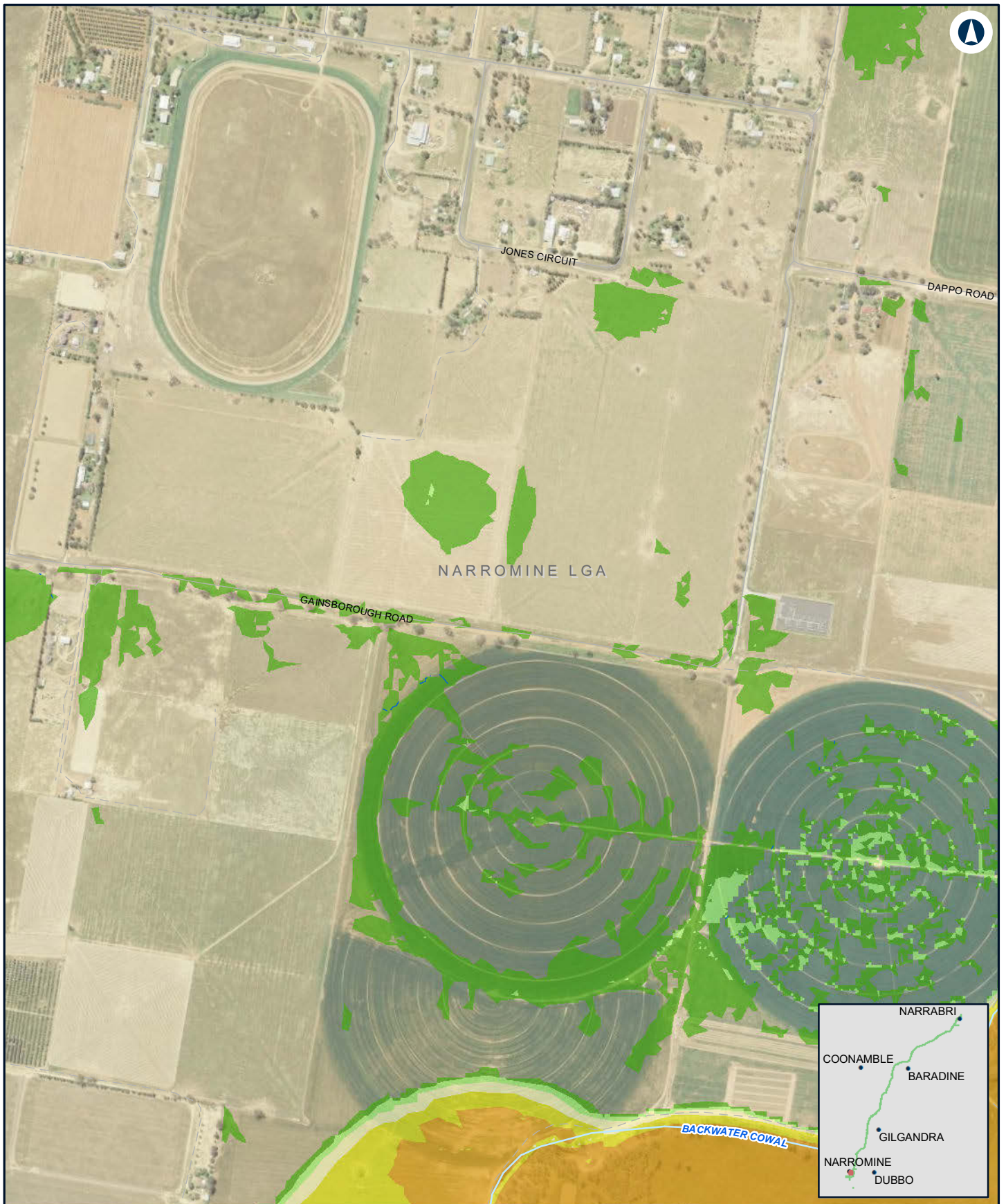
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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.1i

0 0.1 0.2
Km

LEGEND

— Flood level (mAHD) Flood depth

- 0.0m - 0.25m
- 0.25m - 0.5m
- 0.5m - 1.0m
- 1.0m - 2.0m
- > 2.0m

Coordinate System: GDA 1994 MGA Zone 55

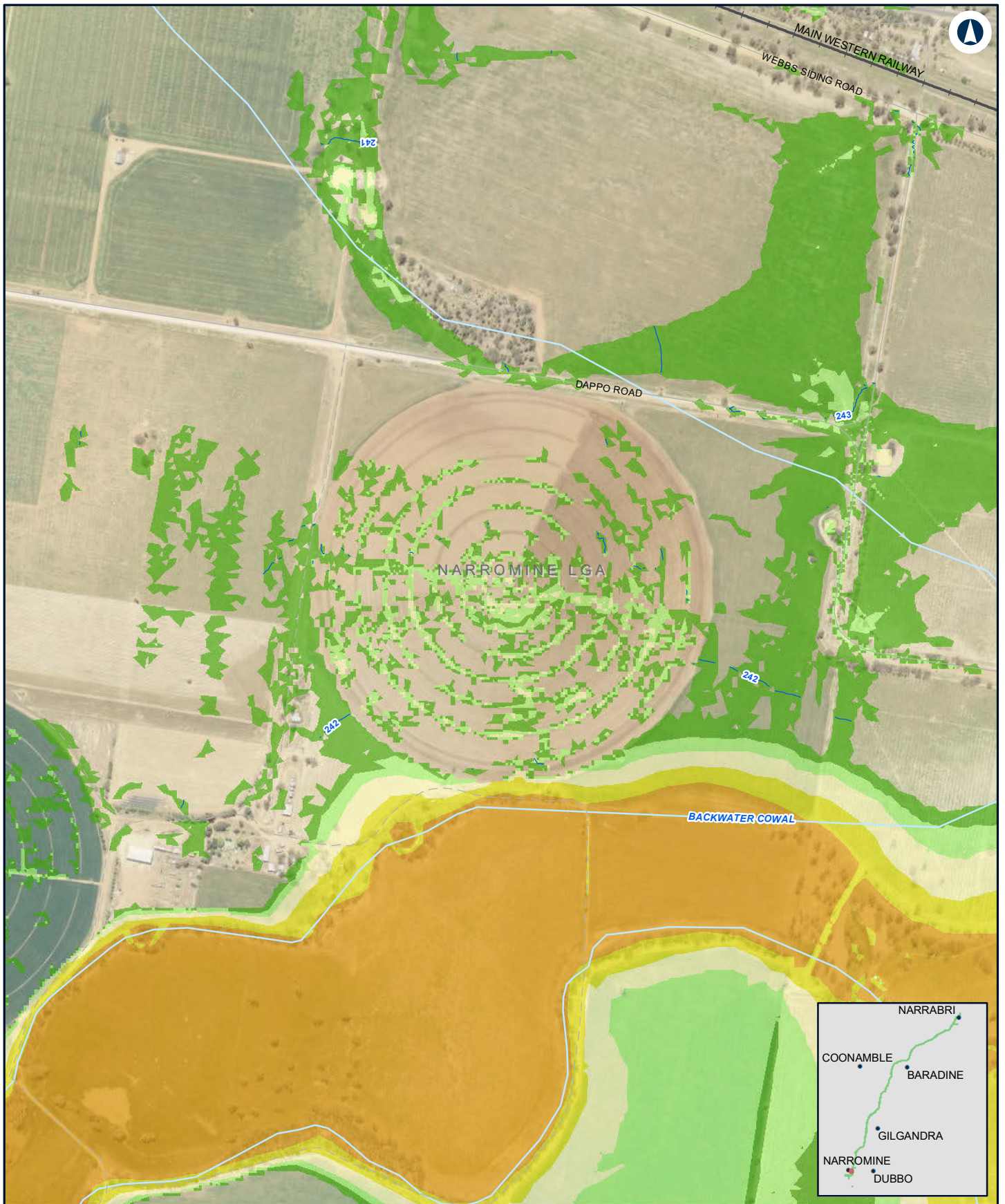
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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.1j

0 0.1 0.2
Km

LEGEND

— Flood level (mAHD)

Flood depth

- 0.0m - 0.25m
- 0.25m - 0.5m
- 0.5m - 1.0m
- 1.0m - 2.0m
- > 2.0m

Coordinate System: GDA 1994 MGA Zone 55

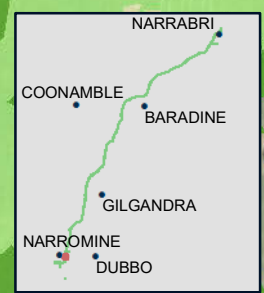
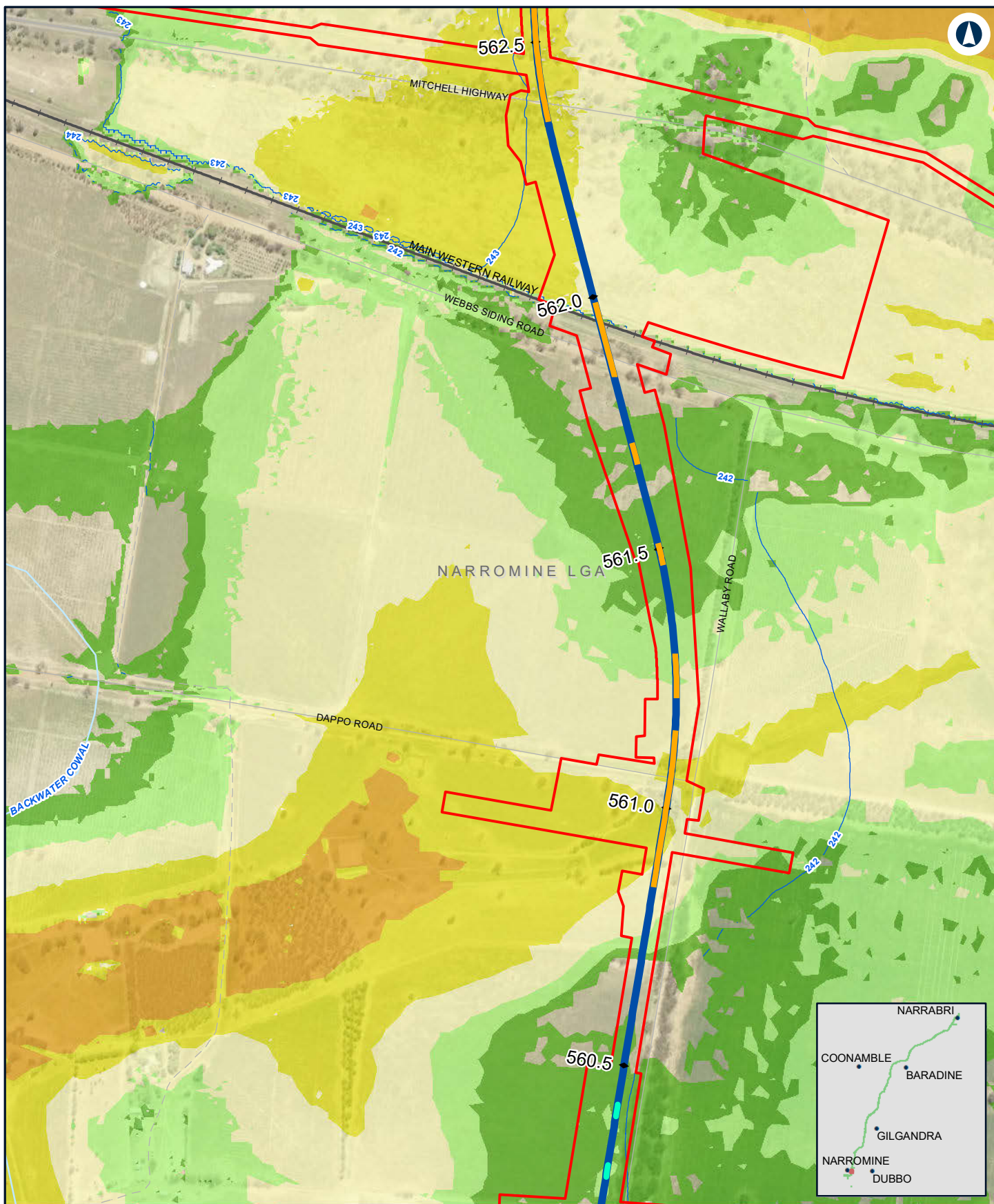
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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.1k

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4
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LEGEND

- | | |
|----------------------|--------------------|
| — Flood level (mAHD) | Flood depth |
| — Bridge | 0.0m - 0.25m |
| — Culvert | 0.25m - 0.5m |
| — Alignment | 0.5m - 1.0m |
| — The proposal | 1.0m - 2.0m |
| | > 2.0m |

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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.1f

0 0.1 0.2
Km

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Author: JacobsGHD
Data Sources: Basemap layers: NSWSS;

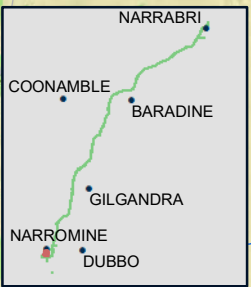
Paper: A4
Scale: 1:10,000

LEGEND

	Flood level (mAHD)	Flood depth
		0.0m - 0.25m
		0.25m - 0.5m
		0.5m - 1.0m
		1.0m - 2.0m
		> 2.0m

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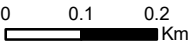
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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.1m



LEGEND

- Flood level (mAHD)
- Flood depth**
 - 0.0m - 0.25m
 - 0.25m - 0.5m
 - 0.5m - 1.0m
 - 1.0m - 2.0m
 - > 2.0m

Coordinate System: GDA 1994 MGA Zone 55

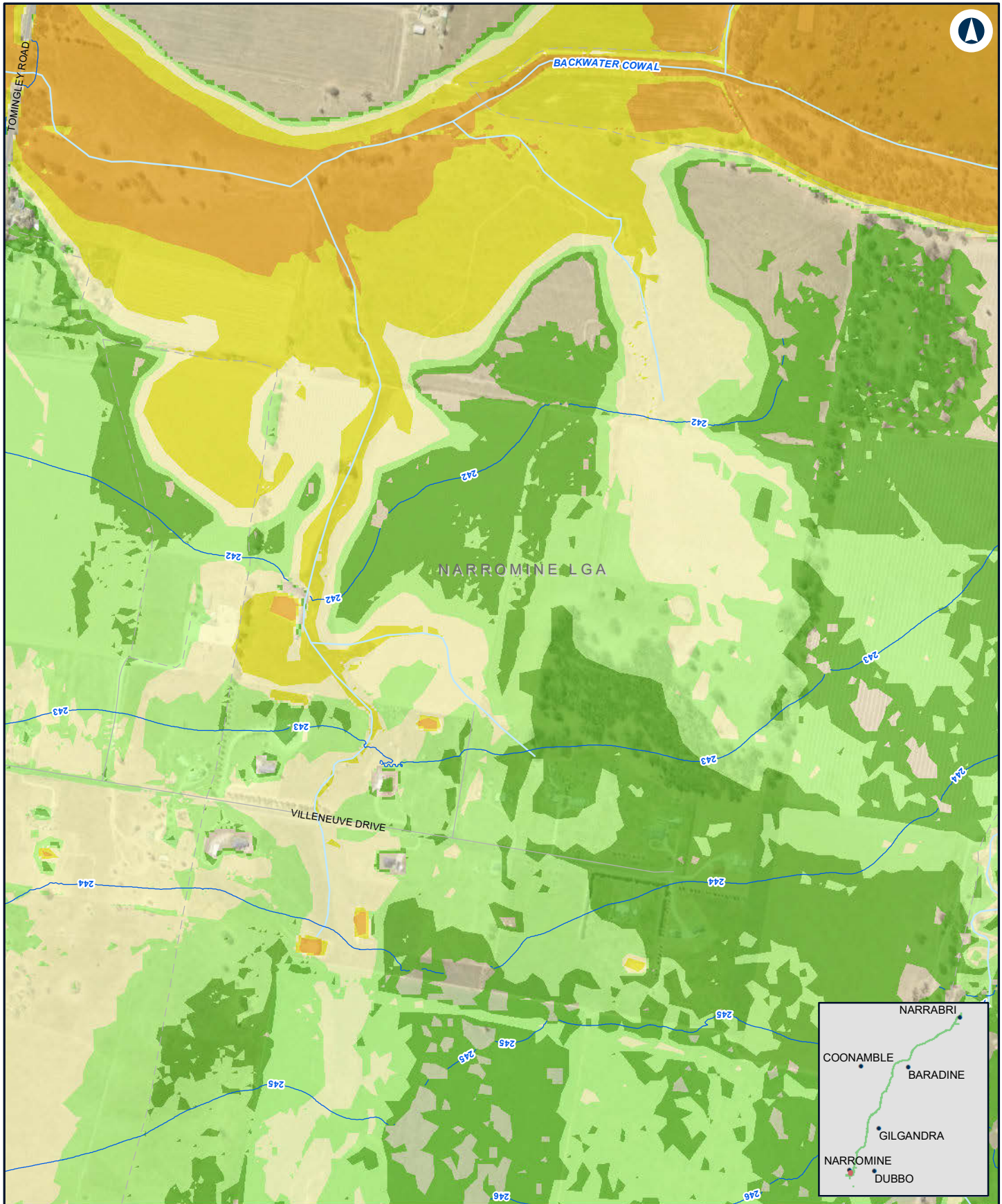
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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.1n



LEGEND

Flood level (mAHD)	Flood depth
—	0.0m - 0.25m
	0.25m - 0.5m
	0.5m - 1.0m
	1.0m - 2.0m
	> 2.0m

Coordinate System: GDA 1994 MGA Zone 55

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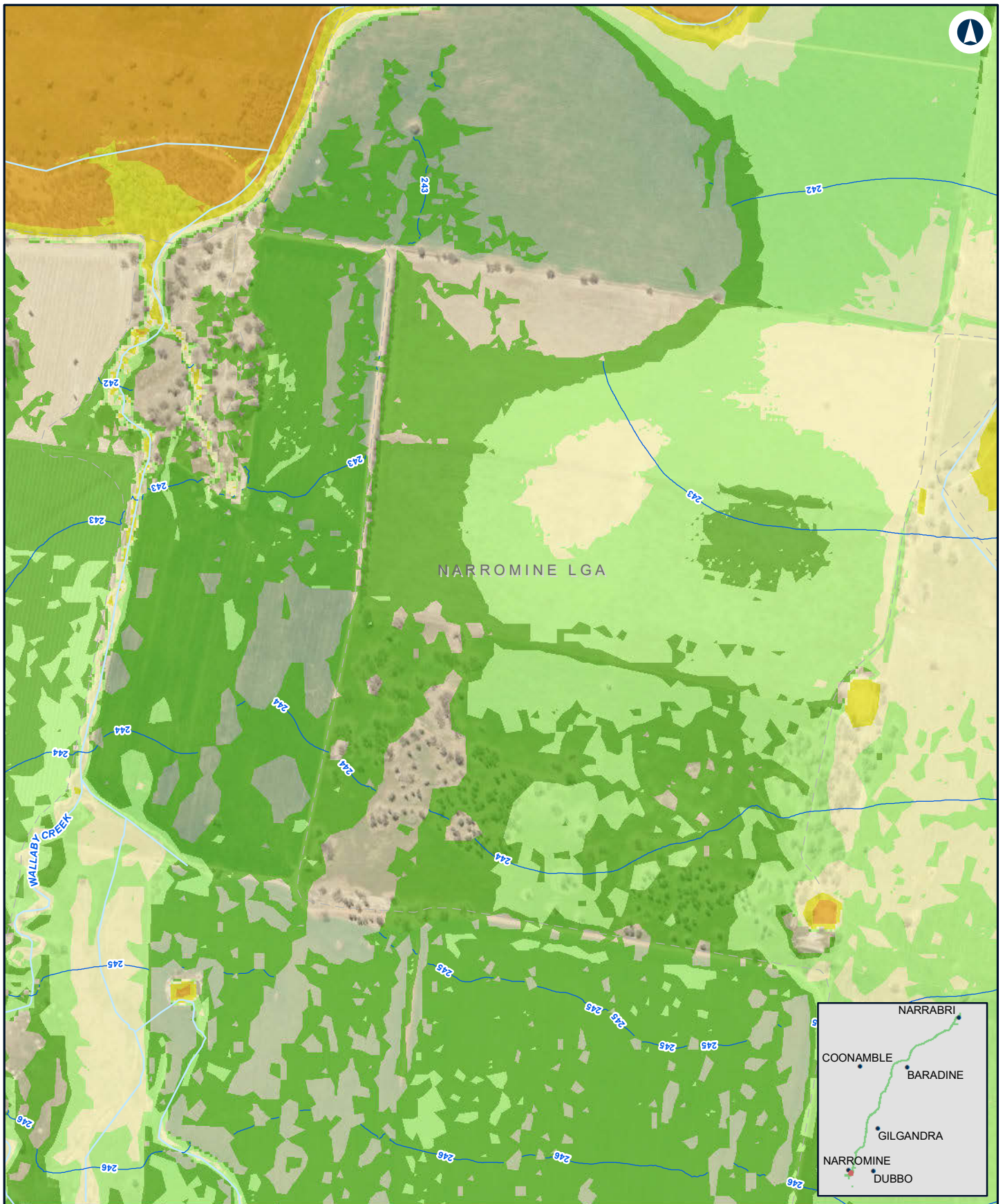
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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.1o

0 0.1 0.2
Km

LEGEND

— Flood level (mAHD)

Flood depth

- 0.0m - 0.25m
- 0.25m - 0.5m
- 0.5m - 1.0m
- 1.0m - 2.0m
- > 2.0m

Coordinate System: GDA 1994 MGA Zone 55

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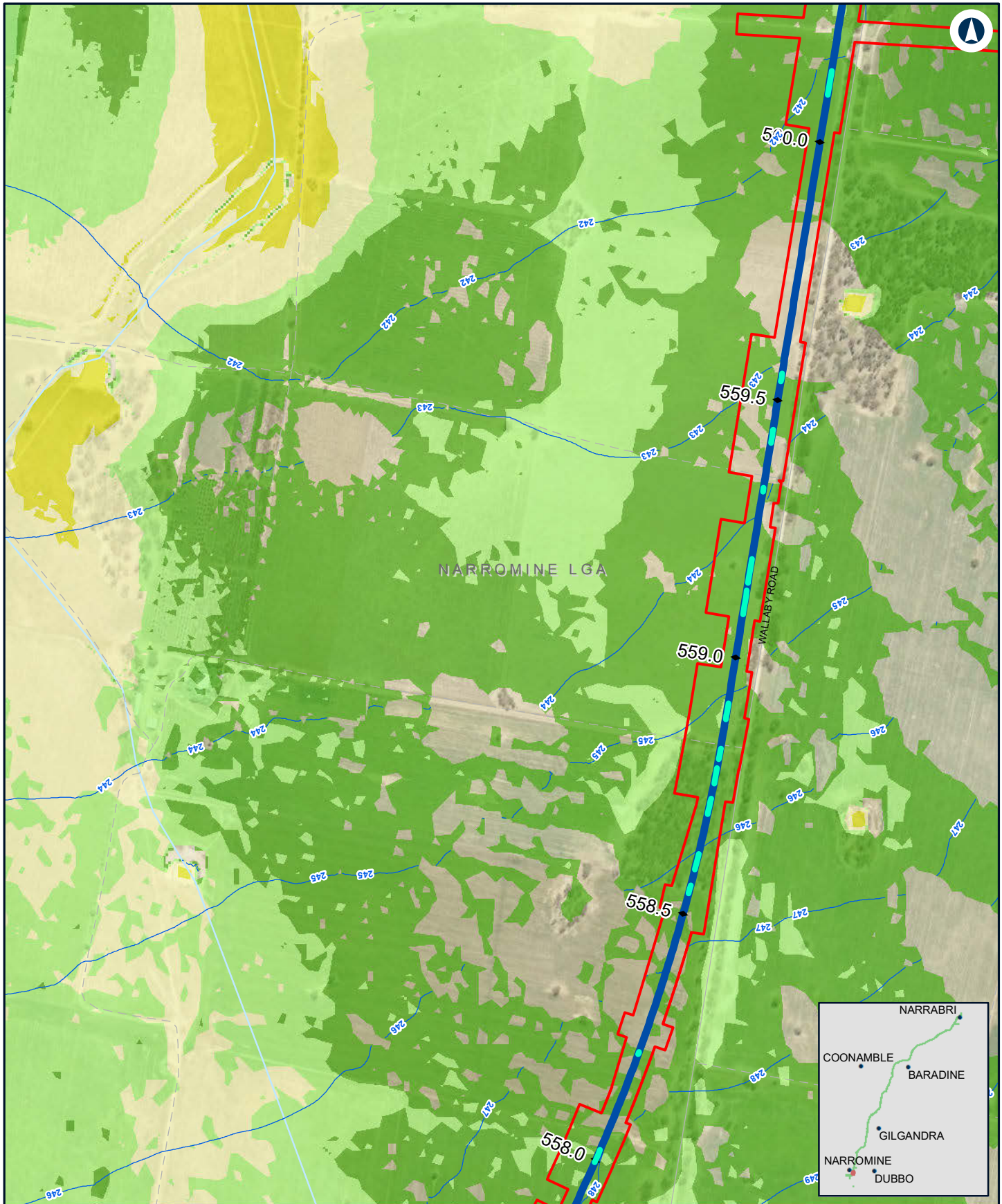
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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.1p

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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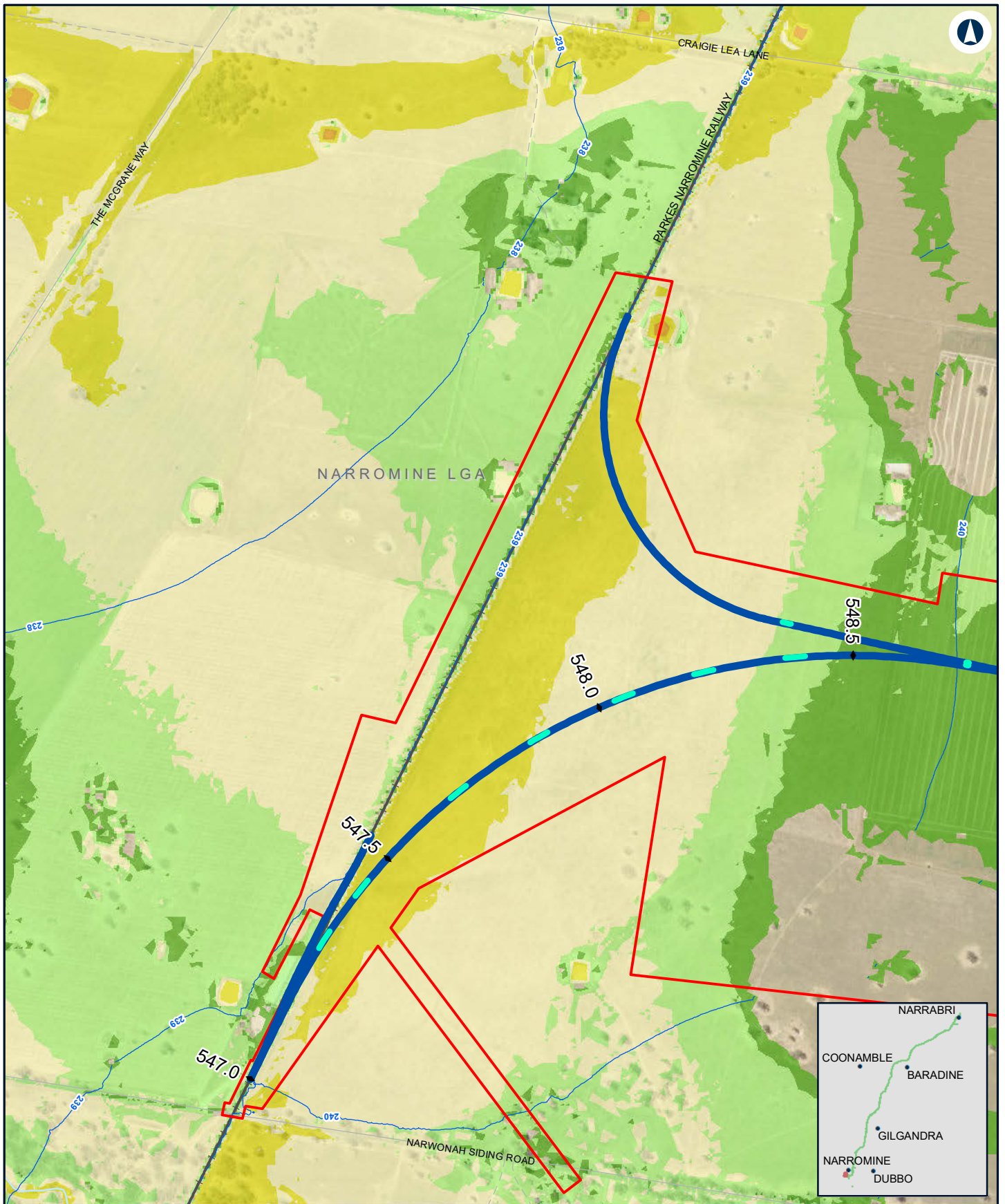
Date: 9/02/2022 Paper: A4
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS;

LEGEND

— Flood level (mAHD)	Flood depth
— Culvert	0.0m - 0.25m
— Alignment	0.25m - 0.5m
— The proposal	0.5m - 1.0m
	1.0m - 2.0m
	> 2.0m

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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.1q

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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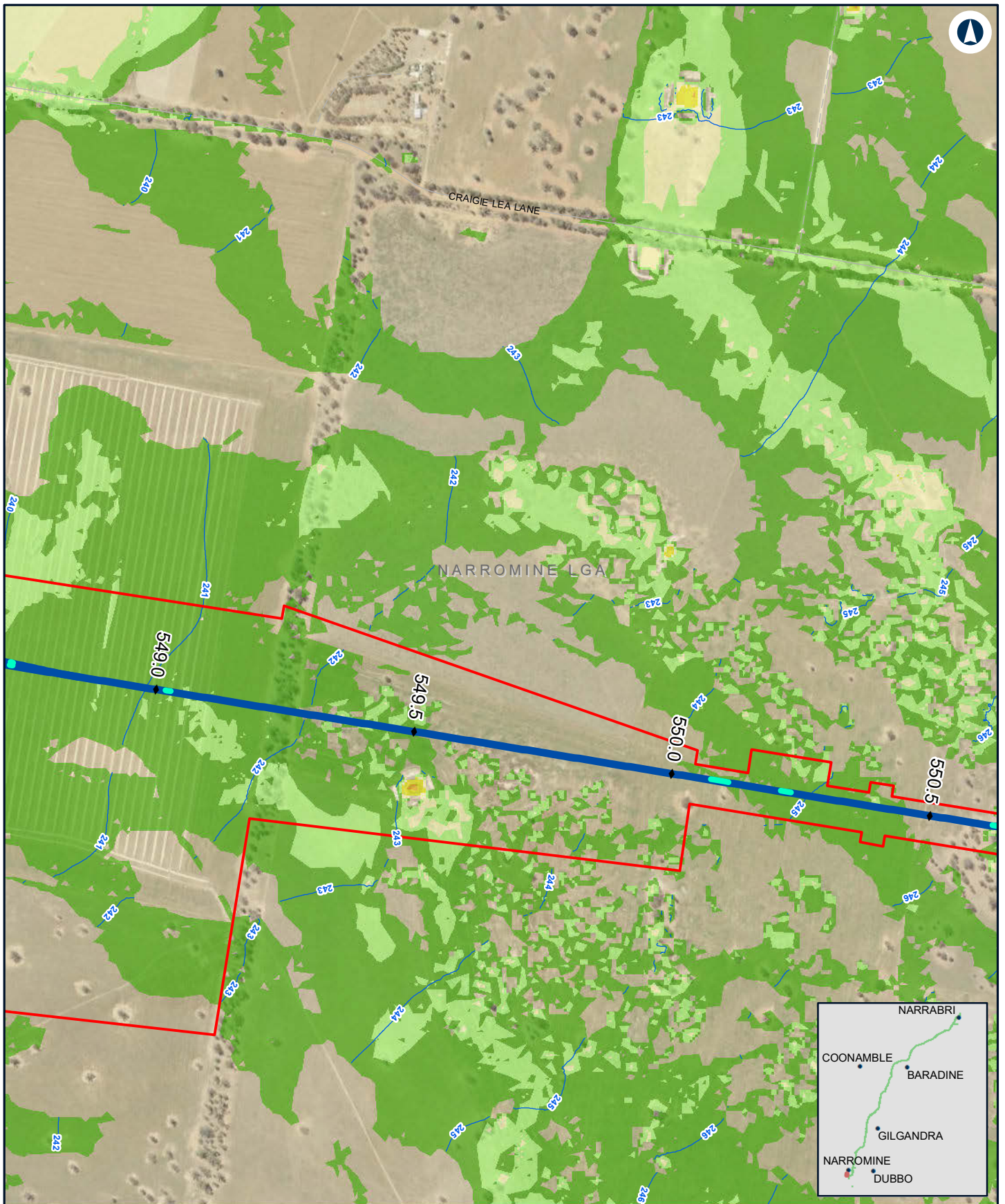
Date: 9/02/2022
Author: JacobsGHD
Scale: 1:10,000
Data Sources: Basemap layers: NSWSS;

LEGEND

- | | |
|----------------------|--------------------|
| — Flood level (mAHD) | Flood depth |
| — Culvert | 0.0m - 0.25m |
| — Alignment | 0.25m - 0.5m |
| □ The proposal | 0.5m - 1.0m |
| | 1.0m - 2.0m |
| | > 2.0m |

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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.1r

0 0.1 0.2
Km

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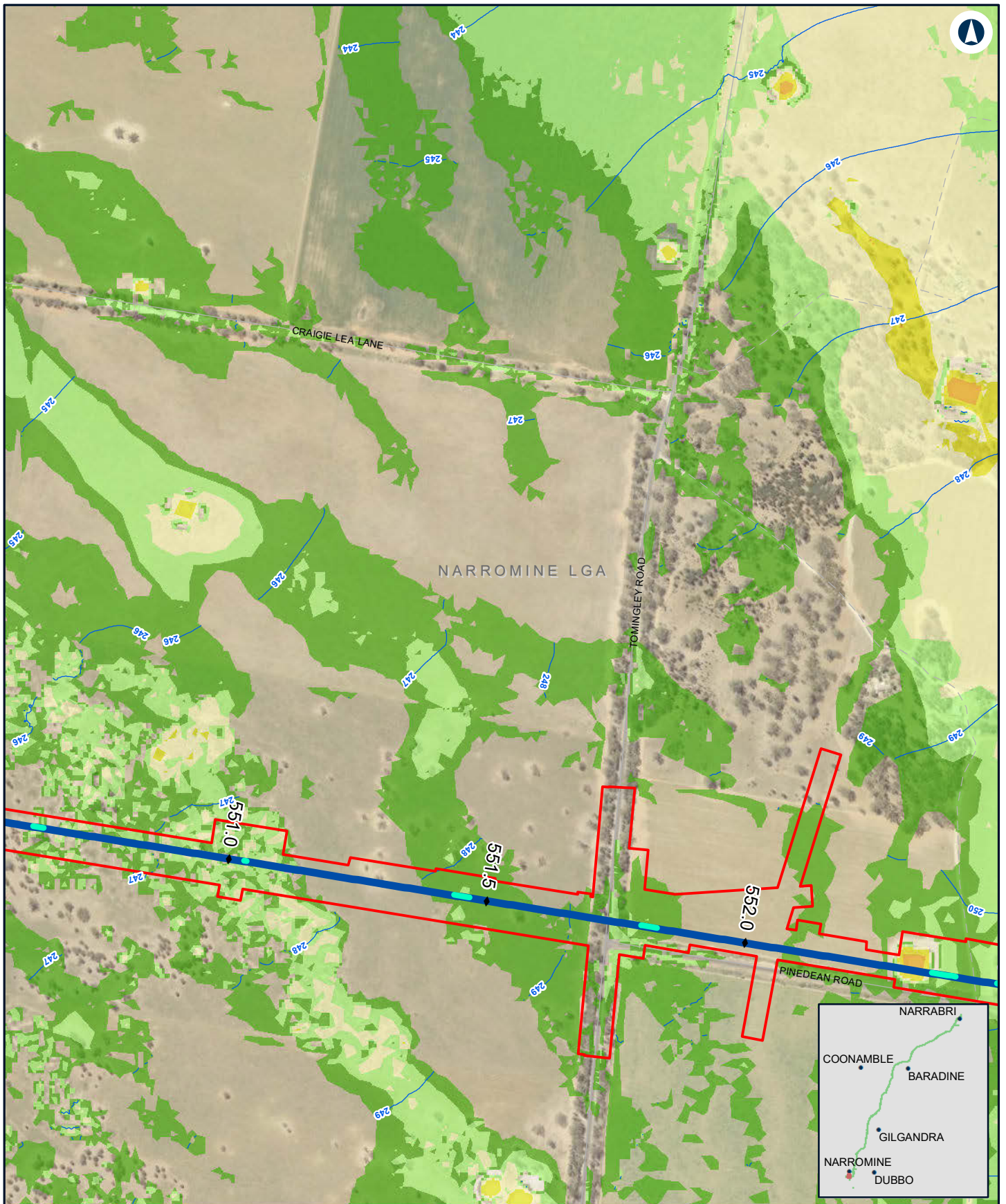
Paper: A4
Scale: 1:10,000

LEGEND

— Flood level (mAHD)	Flood depth
— Culvert	0.0m - 0.25m
— Alignment	0.25m - 0.5m
— The proposal	0.5m - 1.0m
	1.0m - 2.0m
	> 2.0m

INLAND RAIL **ARTC**

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



NARROMINE TO NARRABRI

Existing peak depth / level (contour) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.1s

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 9/02/2022
Author: JacobsGHD
Data Sources: Basemap layers: NSWSS;

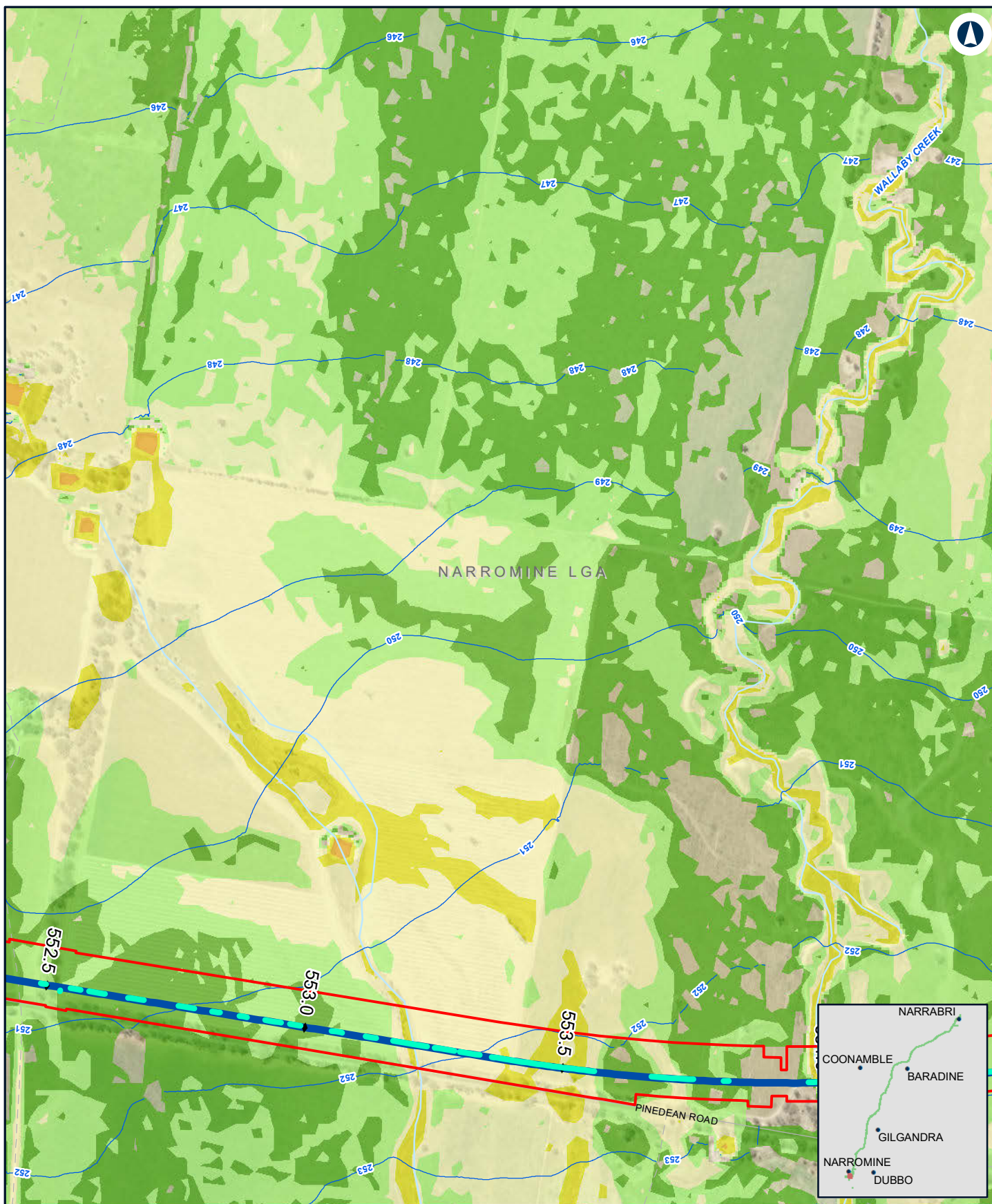
Paper: A4
Scale: 1:10,000

LEGEND

- | | |
|--|--------------------|
| — Flood level (mAHD) | Flood depth |
| — Culvert | 0.0m - 0.25m |
| — Alignment | 0.25m - 0.5m |
| — The proposal | 0.5m - 1.0m |
| | 1.0m - 2.0m |
| | > 2.0m |

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.1t

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 9/02/2022









Paper: A4

Author: JacobsGHD

Scale: 1:10,000

Data Sources: Basemap layers: NSWSS;

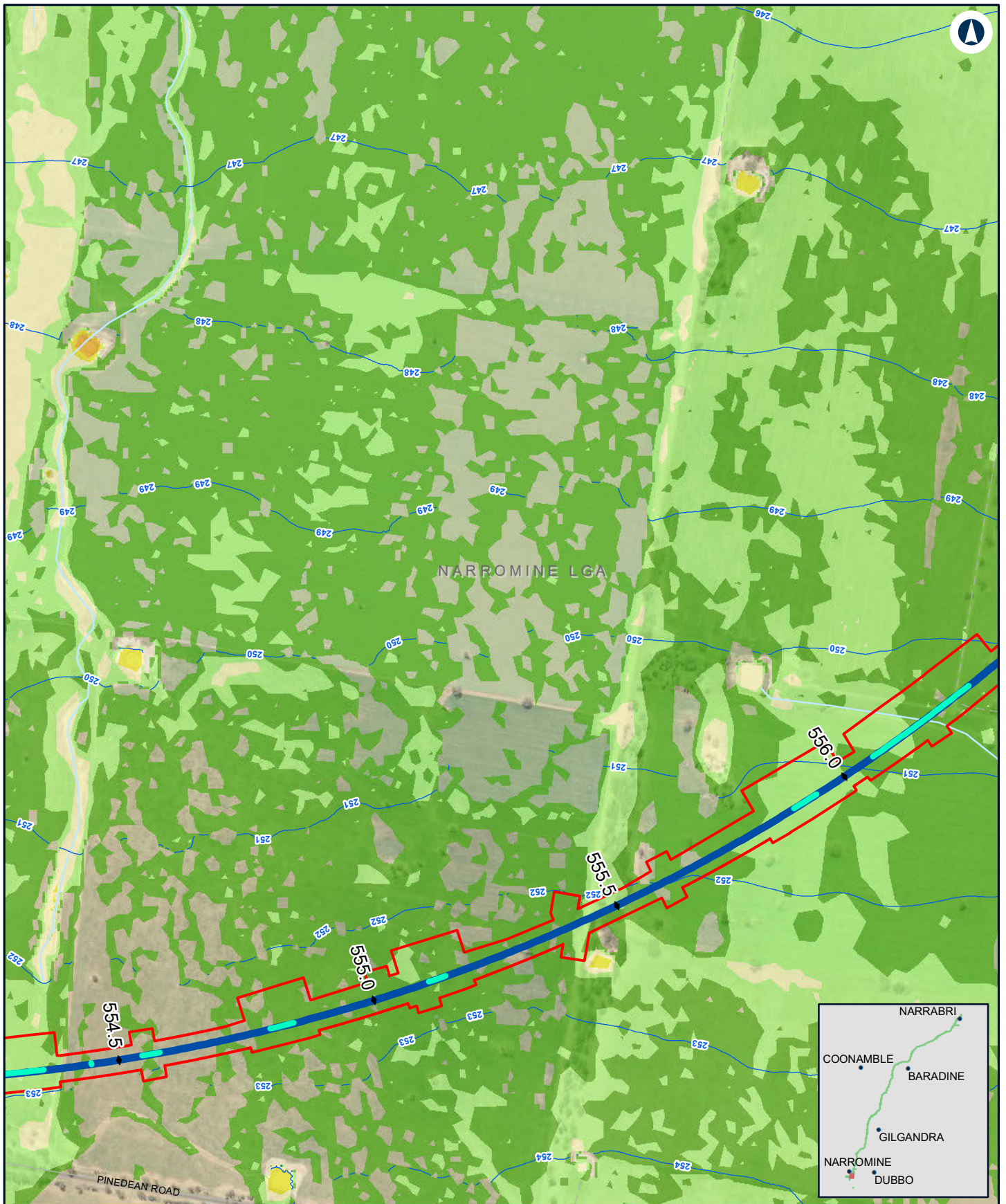
LEGEND

	Flood level (mAHD)	Flood depth
	Culvert	 0.0m - 0.25m
	Alignment	 0.25m - 0.5m
	The proposal	 0.5m - 1.0m
		 1.0m - 2.0m
		 > 2.0m

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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.1u

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 9/02/2022
Author: JacobsGHD
Data Sources: Basemap layers: NSWSS;

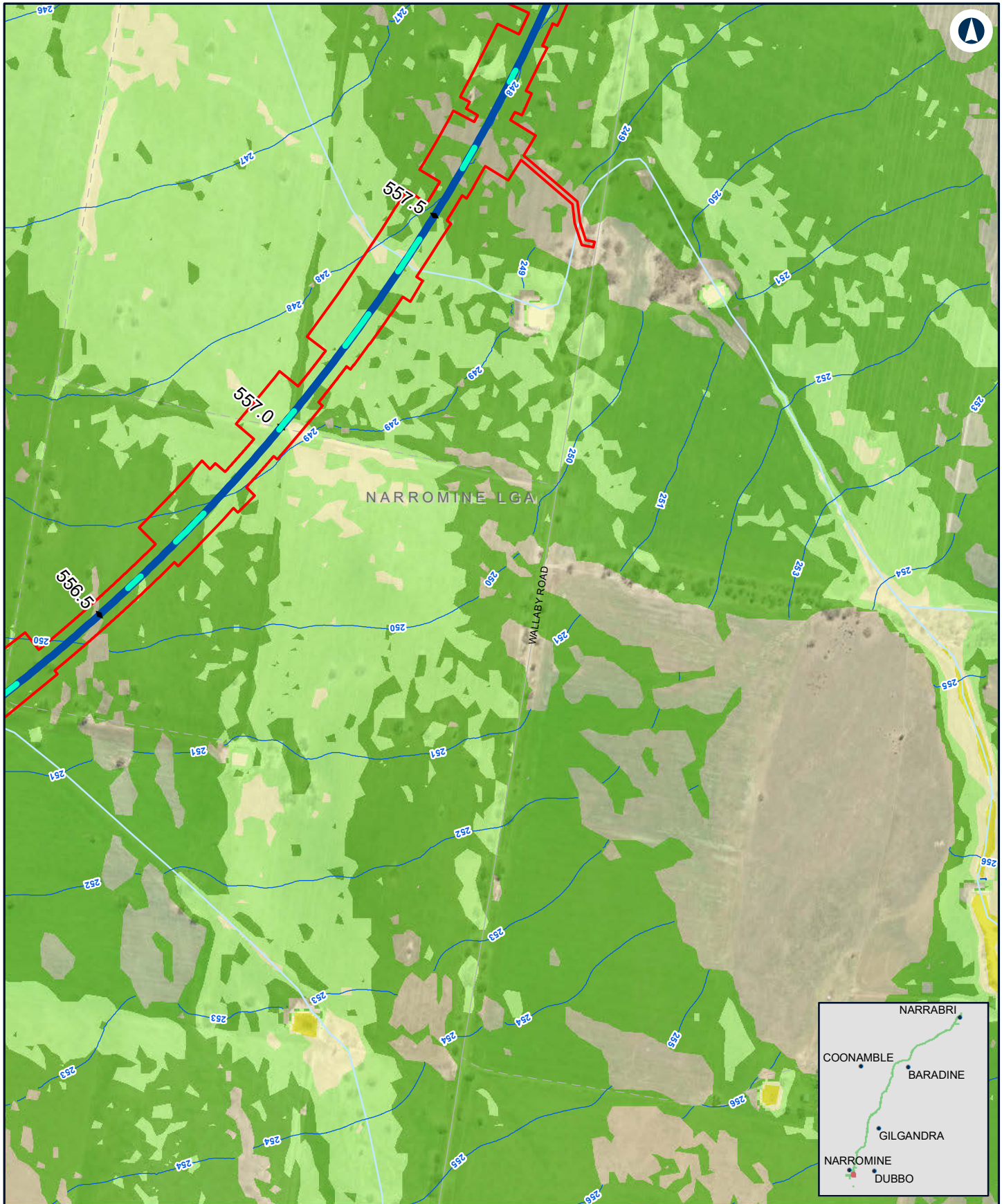
Paper: A4
Scale: 1:10,000

LEGEND

— Flood level (mAHD)	Flood depth
— Culvert	0.0m - 0.25m
— Alignment	0.25m - 0.5m
— The proposal	0.5m - 1.0m
	1.0m - 2.0m
	> 2.0m

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.1v

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 9/02/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

Data Sources: Basemap layers: NSWSS;

LEGEND

	Flood level (mAHD)	Flood depth
	Culvert	0.0m - 0.25m
	Alignment	0.25m - 0.5m
	The proposal	0.5m - 1.0m
		1.0m - 2.0m

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.2a

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:10,000

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

LEGEND

Alignment

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

Was dry now wet

Was wet now dry

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.2b

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

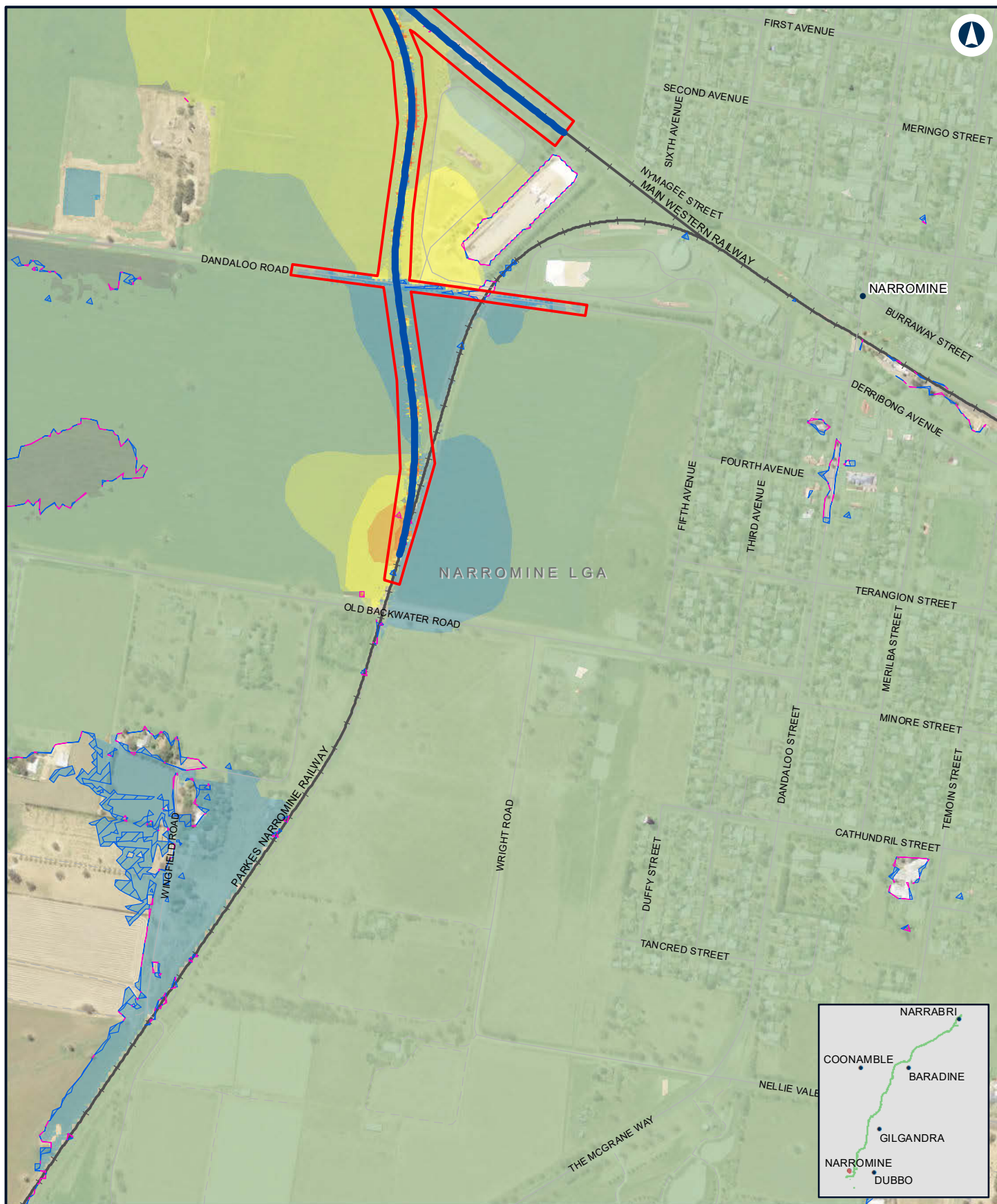
LEGEND

Afflux

- > 0.2m decrease
- 0.01 m - 0.2 m decrease
- 0 m - 0.01 m decrease
- 0 m - 0.01 m increase
- Was dry now wet
- Was wet now dry

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.2c

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

Alignment

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

Was dry now wet

Was wet now dry

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.2d

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

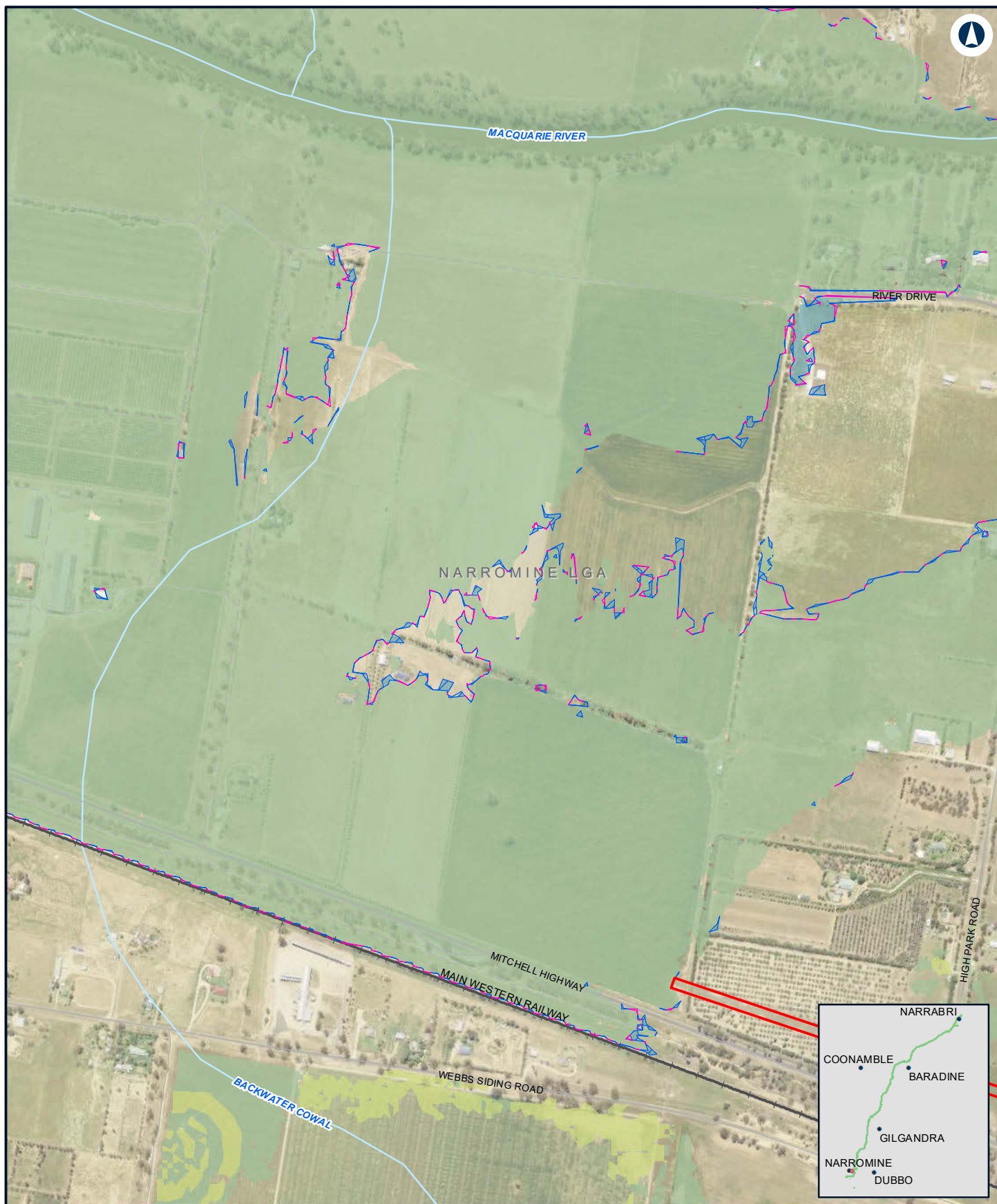
LEGEND

Afflux

- > 0.2m decrease
- 0.01 m - 0.2 m decrease
- 0 m - 0.01 m decrease
- Was dry now wet
- Was wet now dry

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.2e

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022 Paper: A4
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

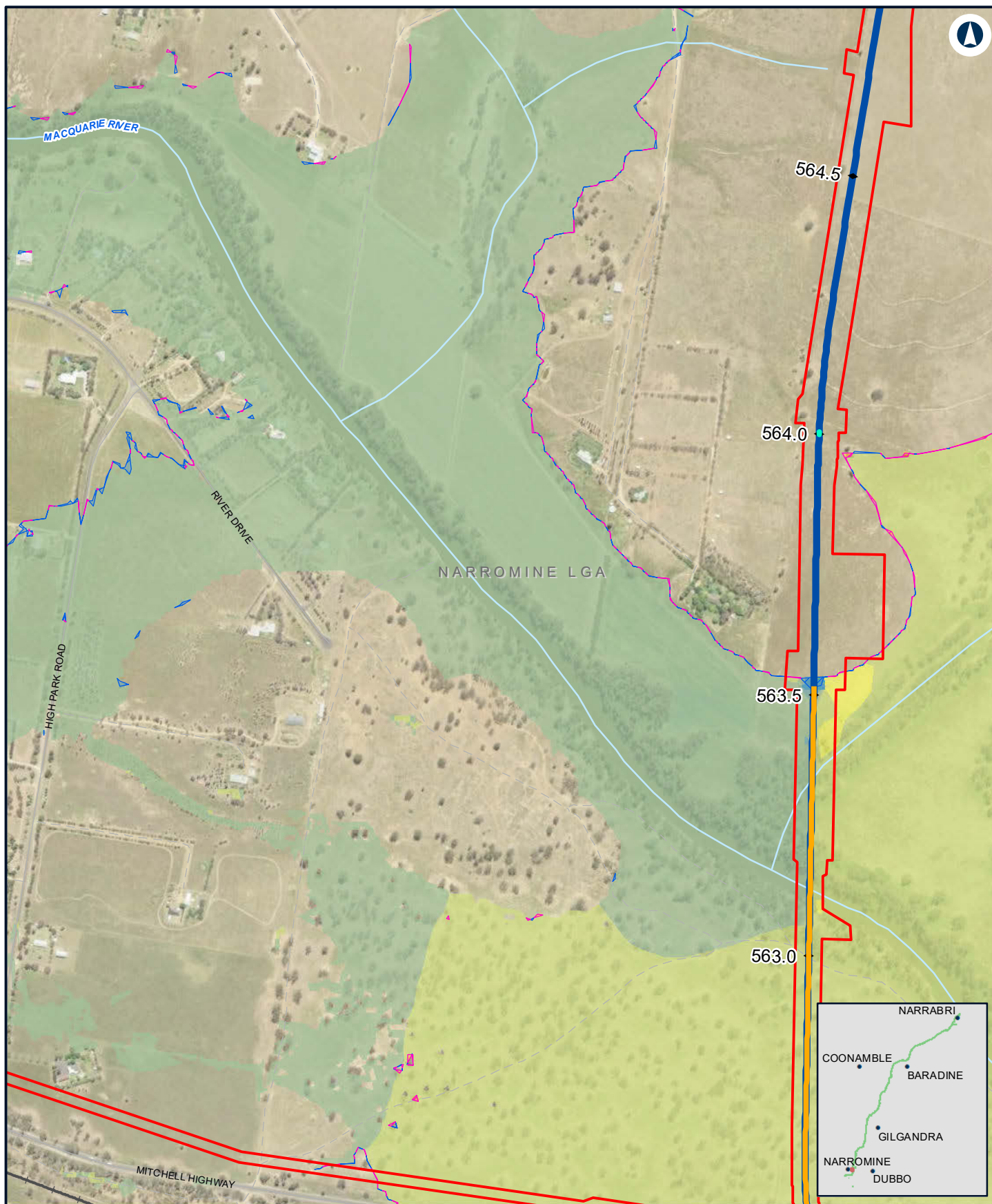
 The proposal site

Afflux

- > 0.2m decrease
- 0.01 m - 0.2 m decrease
- 0 m - 0.01 m decrease
- 0 m - 0.01 m increase
- Was dry now wet
- Was wet now dry

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.2f

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

Bridge

Culvert

Alignment

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

Was dry now wet

Was wet now dry

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.2g

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

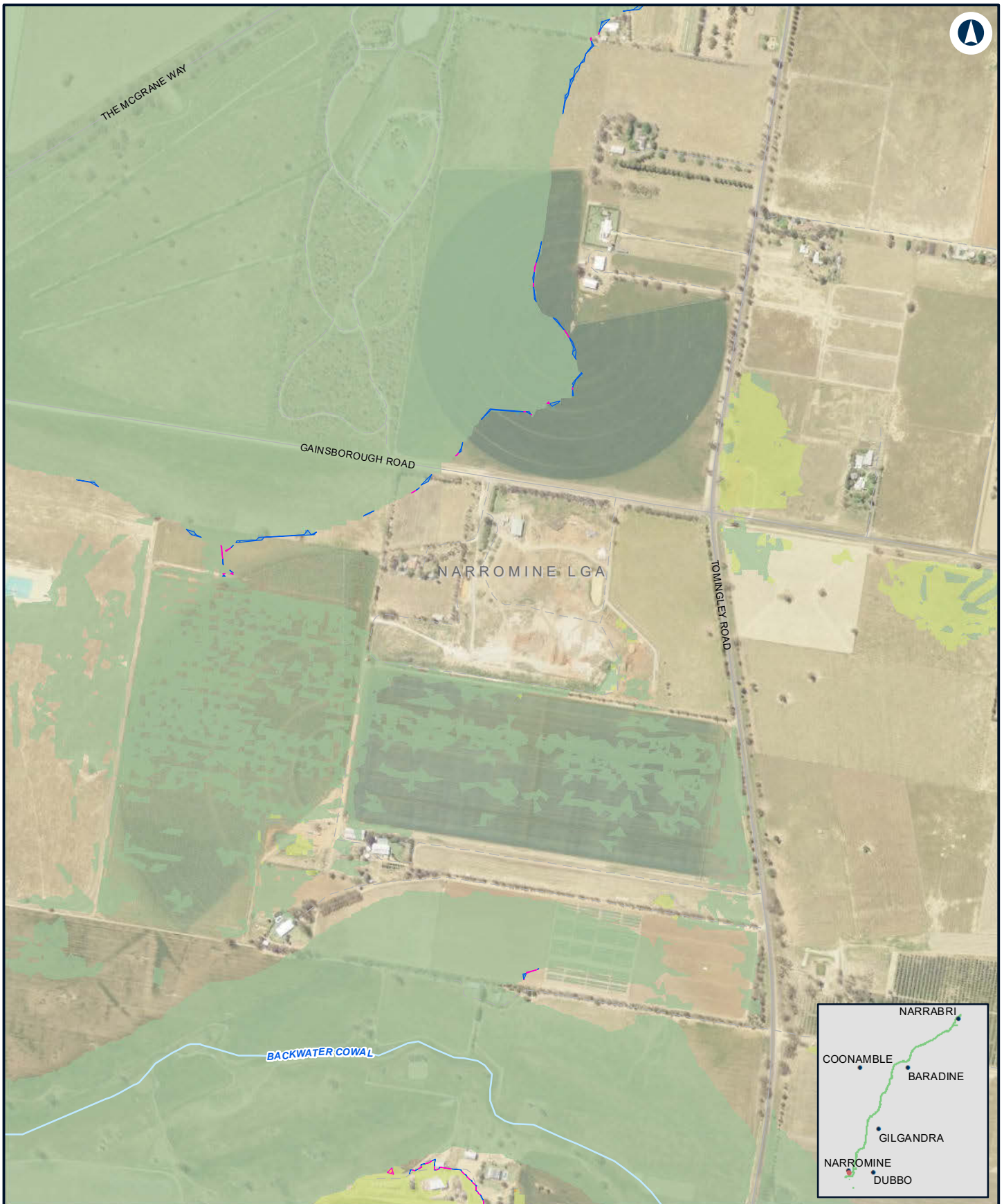
LEGEND

Afflux

- 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
- Was dry now wet
- Was wet now dry

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.2h

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022 Paper: A4
Author: JacobsGHD Scale: 1:10,000

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

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

Was dry now wet

Was wet now dry

**INLAND
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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.2i

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

Afflux

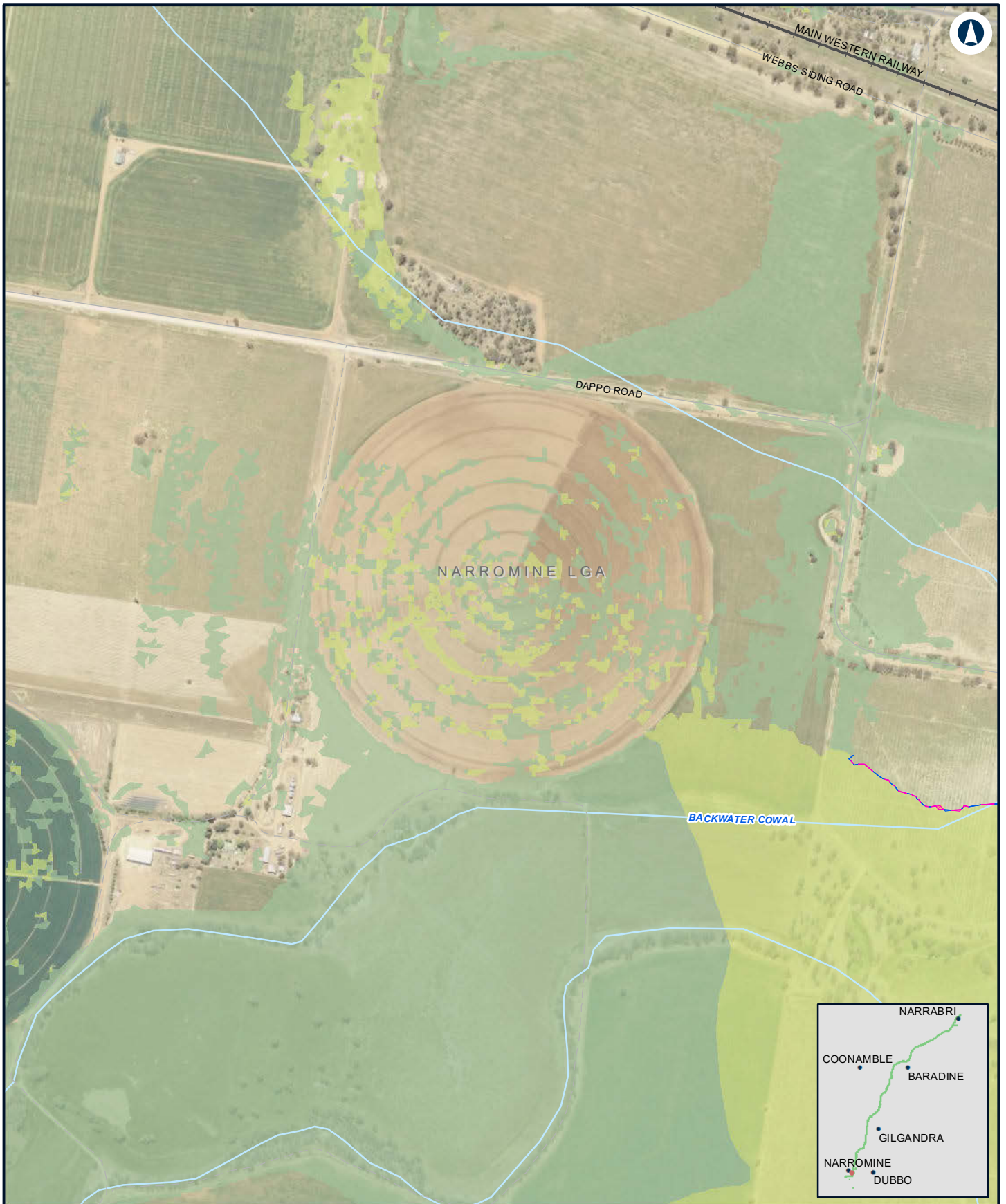
- 0.01 m - 0.2 m decrease
- 0 m - 0.01 m decrease
- 0 m - 0.01 m increase
- 0.01 m - 0.05 m increase

Was dry now wet

Was wet now dry

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.2j

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

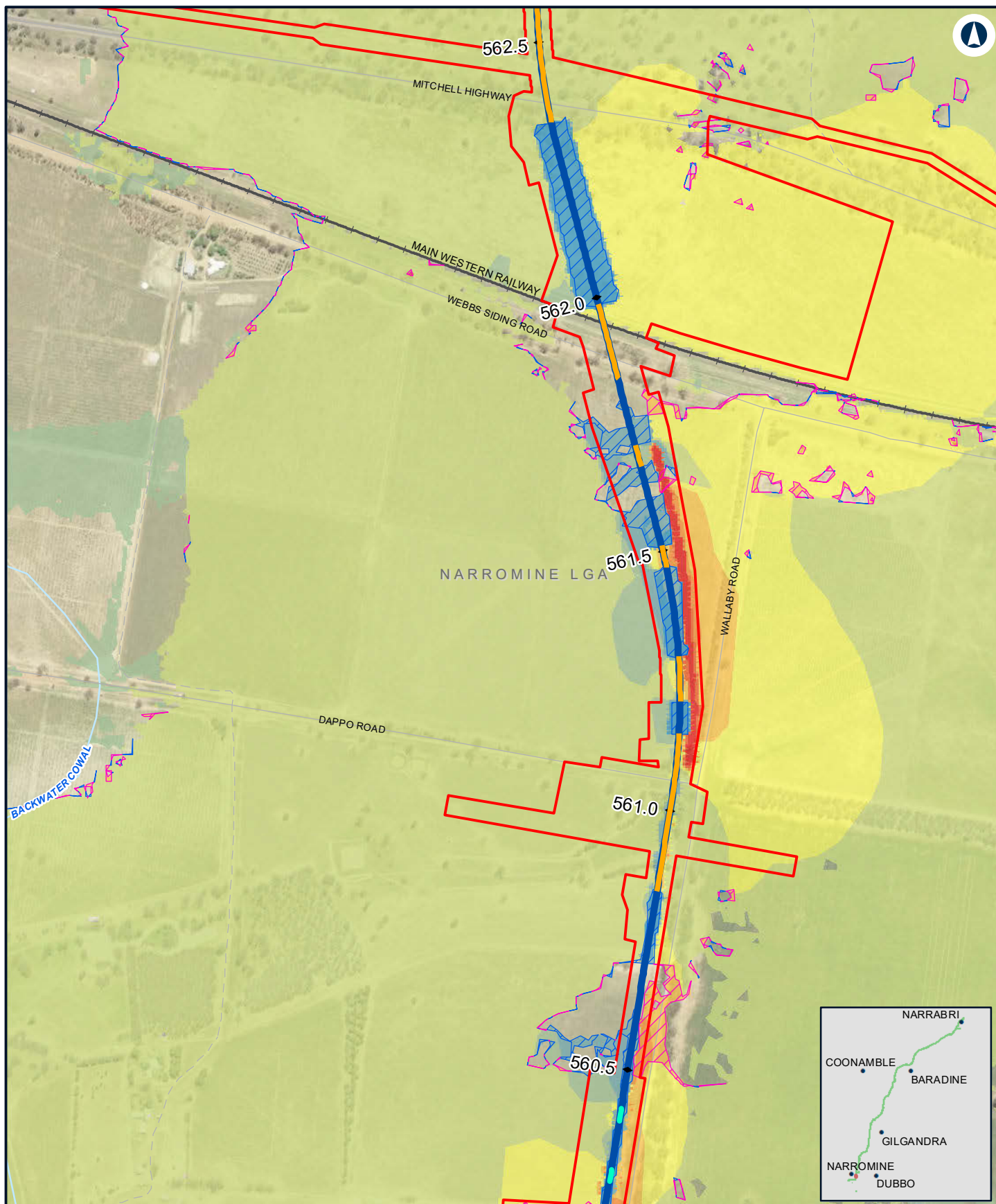
LEGEND

Afflux

- 0 m - 0.01 m decrease
- 0 m - 0.01 m increase
- 0.05 m - 0.1 m increase
- Was dry now wet
- Was wet now dry

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.2k

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022

Author: JacobsGHD

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

Paper: A4

Scale: 1:10,000

LEGEND

Bridge

Culvert

Alignment

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

Was dry now wet

Was wet now dry

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.2I

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:10,000

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

LEGEND

Afflux

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

- Was dry now wet
- Was wet now dry

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.2m

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:10,000

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

LEGEND

Afflux

- 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

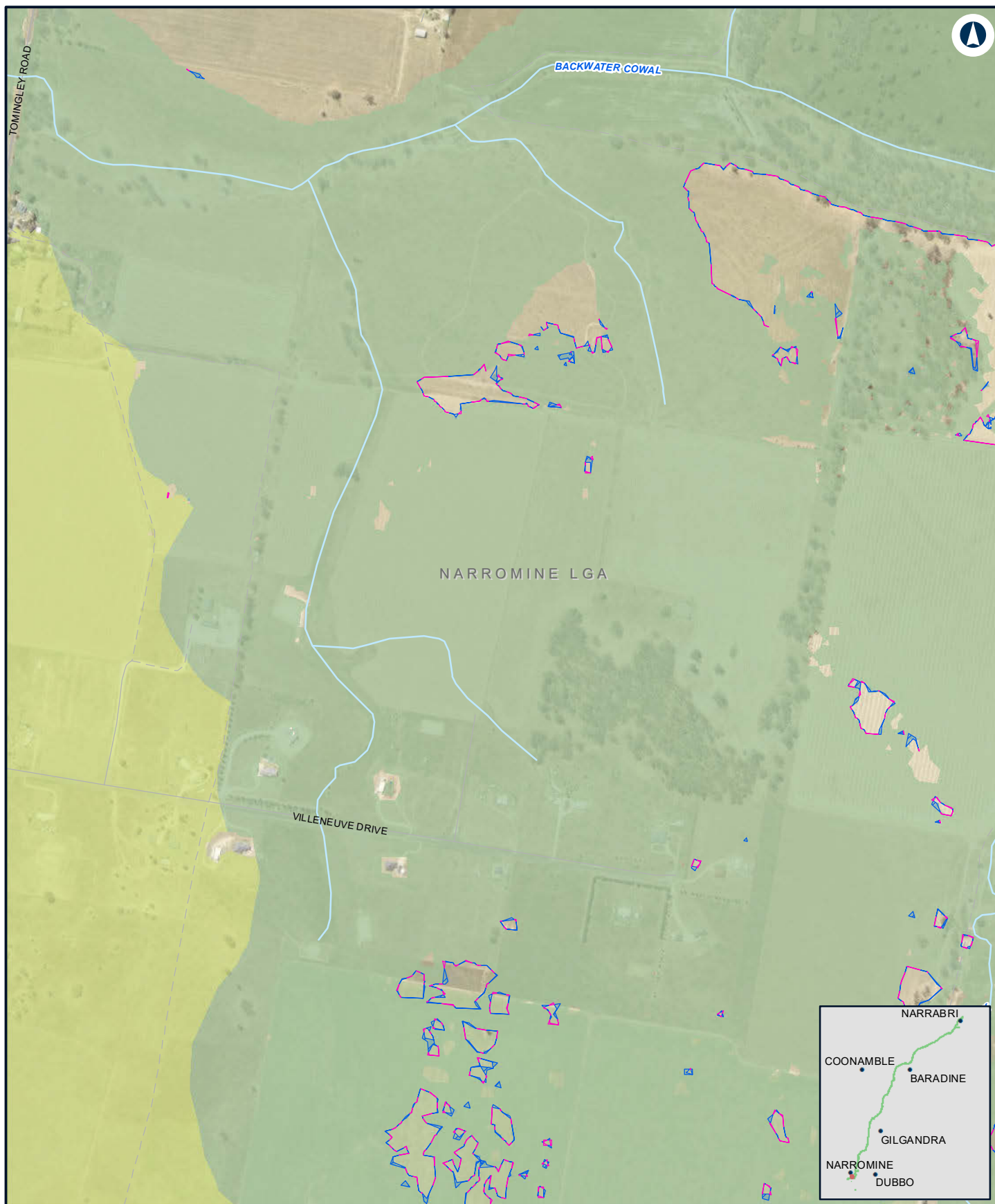
Was dry now wet

Was wet now dry

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.2n

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

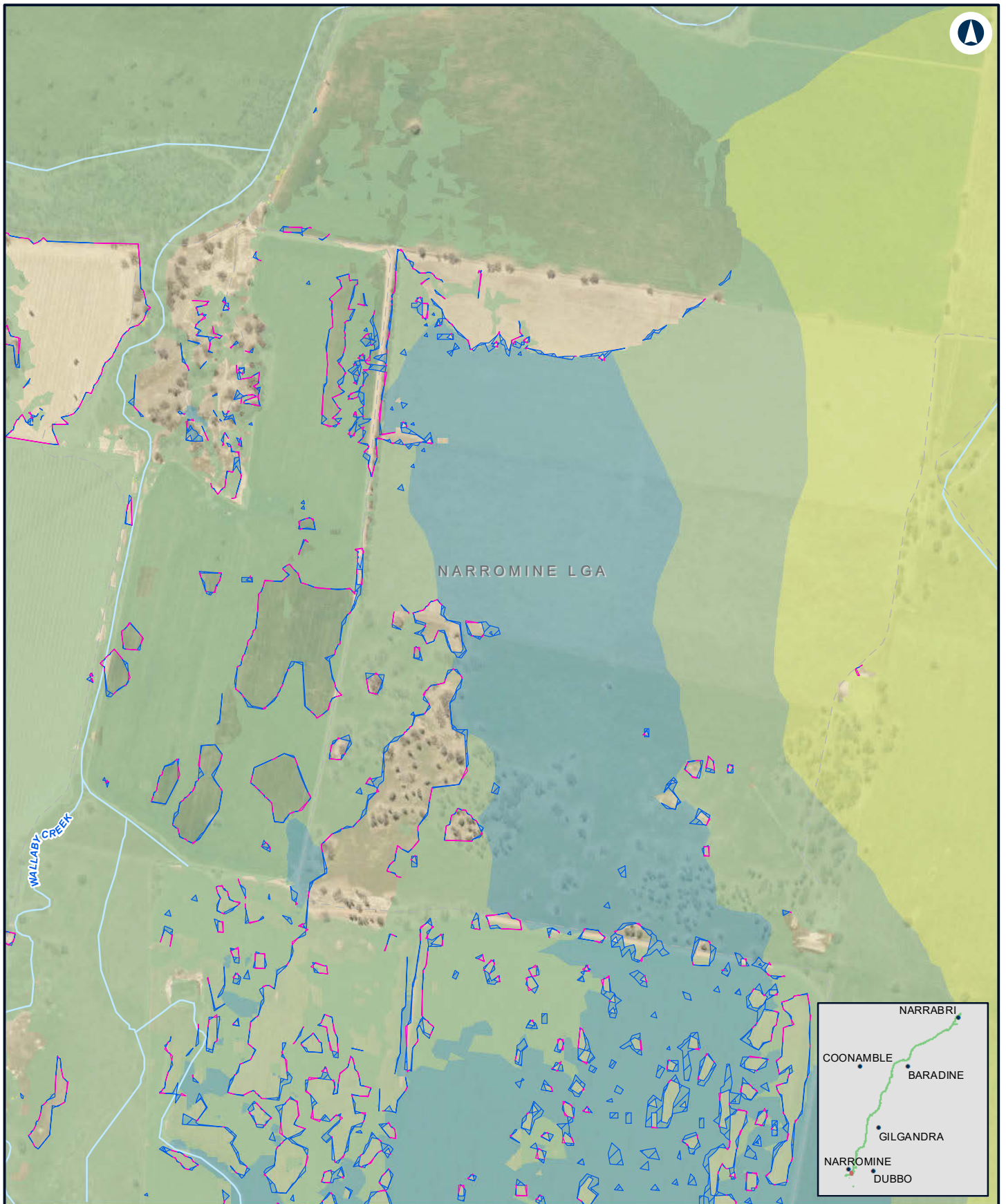
LEGEND

Afflux

- > 0.2m decrease
- 0.01 m - 0.2 m decrease
- 0 m - 0.01 m decrease
- 0 m - 0.01 m increase
- 0.05 m - 0.1 m increase
- Was dry now wet
- Was wet now dry

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.2o

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022 Paper: A4
Author: JacobsGHD Scale: 1:10,000

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

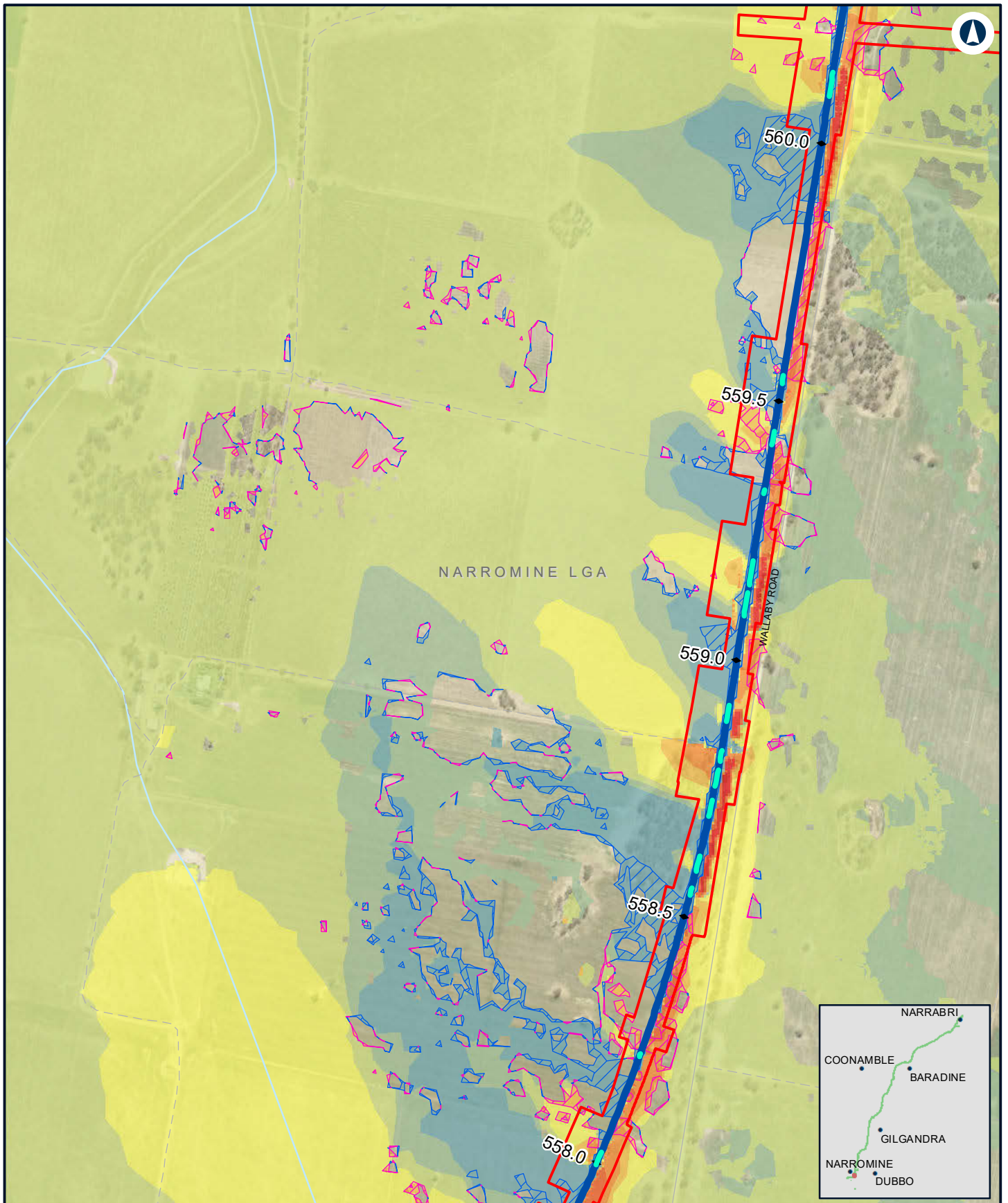
LEGEND

Afflux

- > 0.2m decrease
- 0.01 m - 0.2 m decrease
- 0 m - 0.01 m decrease
- 0 m - 0.01 m increase
- 0.05 m - 0.1 m increase
- Was dry now wet
- Was wet now dry

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.2p

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022

Author: JacobsGHD

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

Paper: A4
Scale: 1:10,000

LEGEND

Culvert

Alignment

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

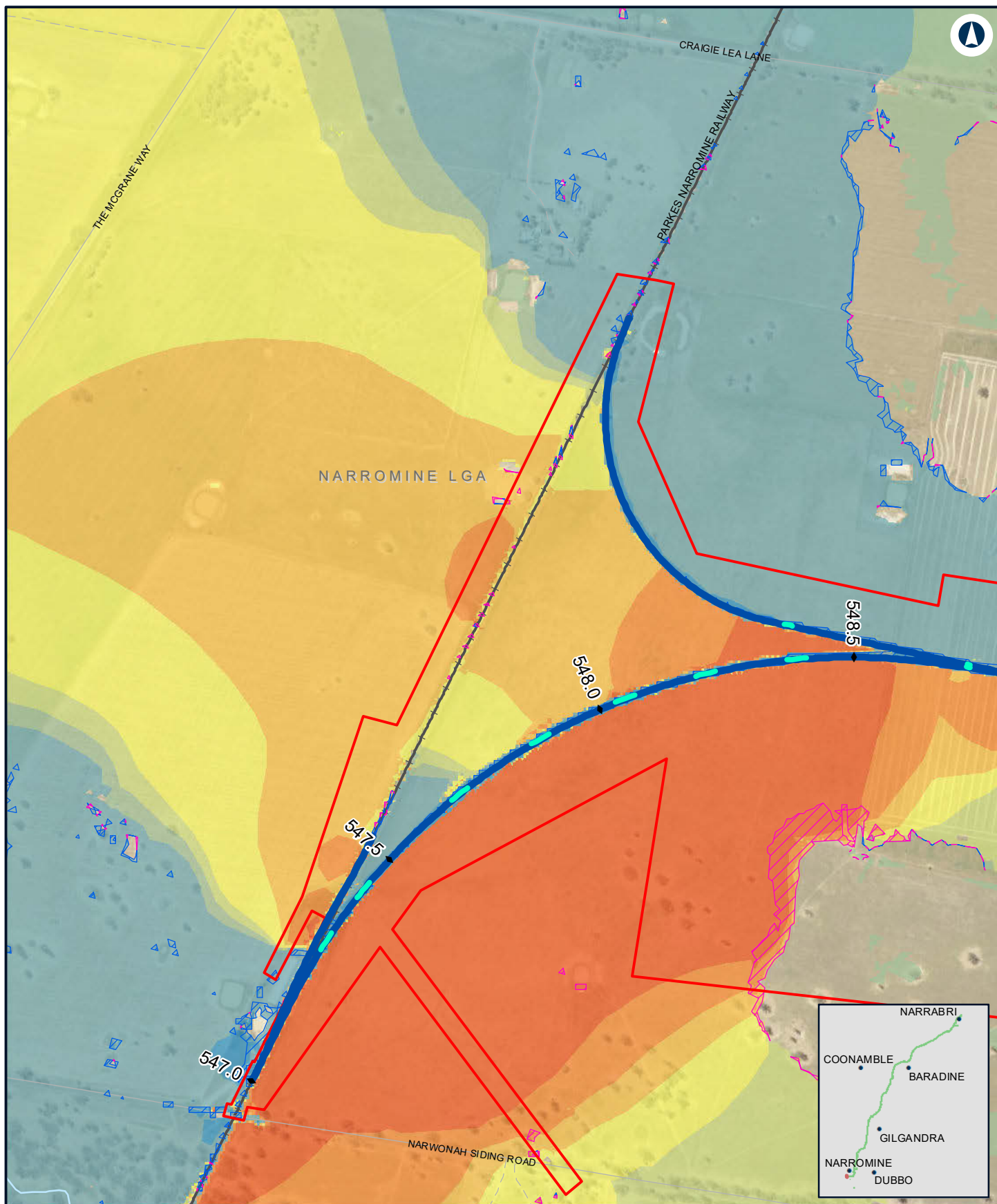
Was dry now wet

Was wet now dry

**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) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.2q

0 0.1 0.2
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: 8/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:10,000

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

LEGEND

Culvert

Alignment

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

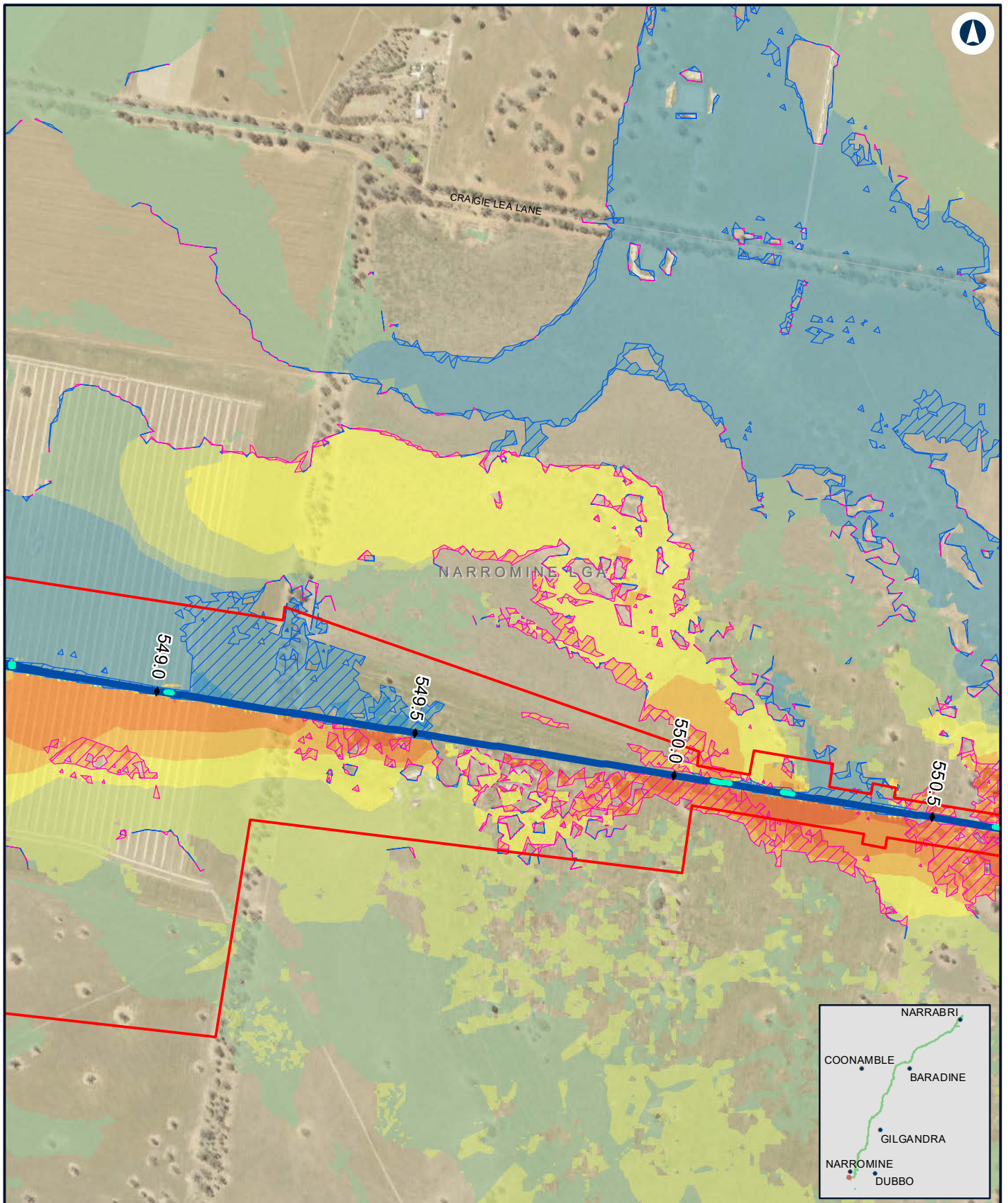
Was dry now wet

Was wet now dry

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ARTC

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.2r

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:10,000

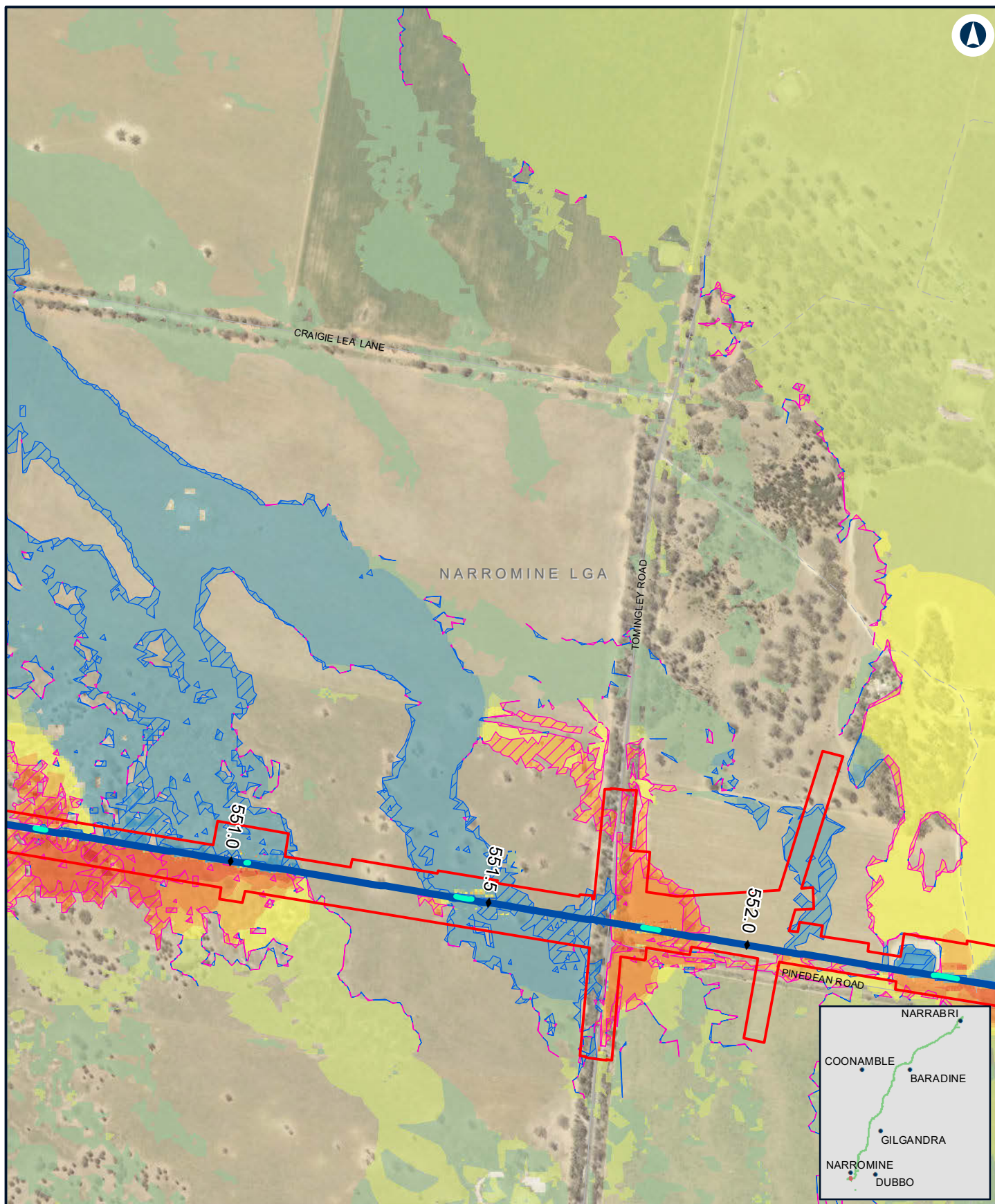
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

	Culvert		0.01 m - 0.05 m increase
	Alignment		0.05 m - 0.1 m increase
	The proposal site		0.1 m - 0.2 m increase
Afflux			0.2 m - 0.5 m increase
	> 0.2m decrease		> 0.5 m increase
	0.01 m - 0.2 m decrease		Was dry now wet
	0 m - 0.01 m decrease		Was wet now dry
	0 m - 0.01 m increase		

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.2s

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

Culvert

Alignment

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

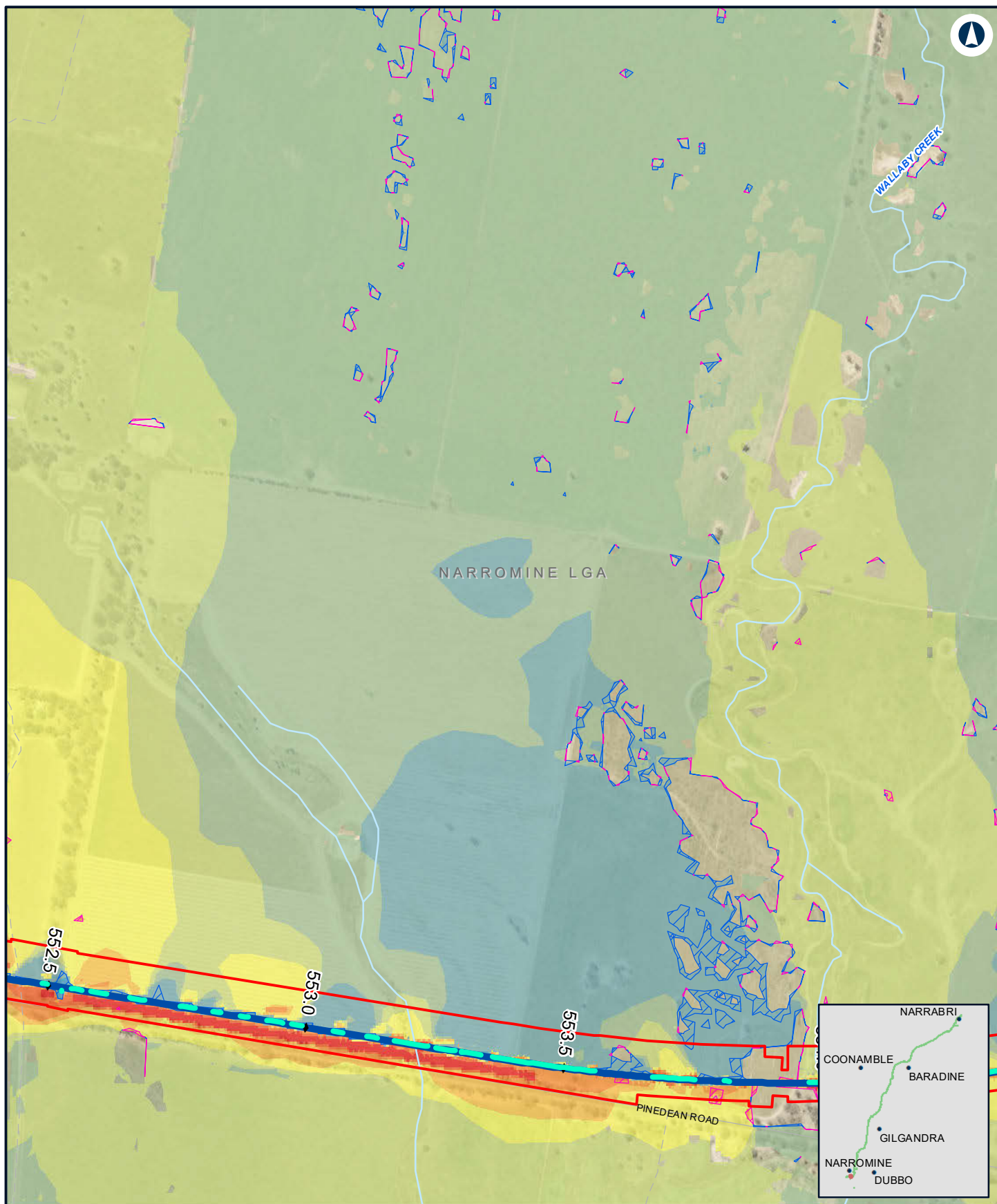
Was dry now wet

Was wet now dry

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.2t

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022

Author: JacobsGHD

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

Paper: A4

Scale: 1:10,000

LEGEND

Culvert

Alignment

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

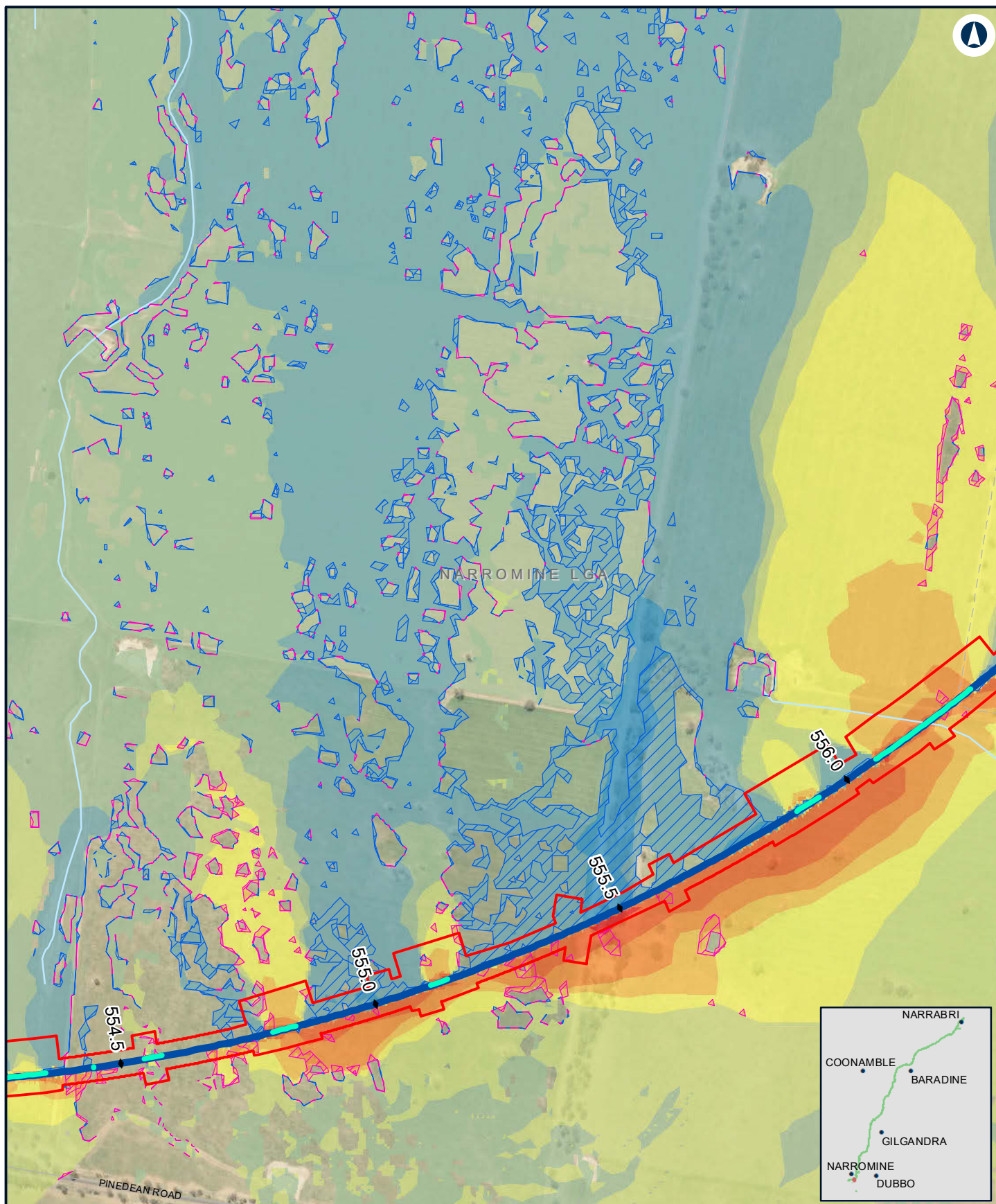
Was dry now wet

Was wet now dry

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.2u

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:10,000

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

LEGEND

Culvert

Alignment

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

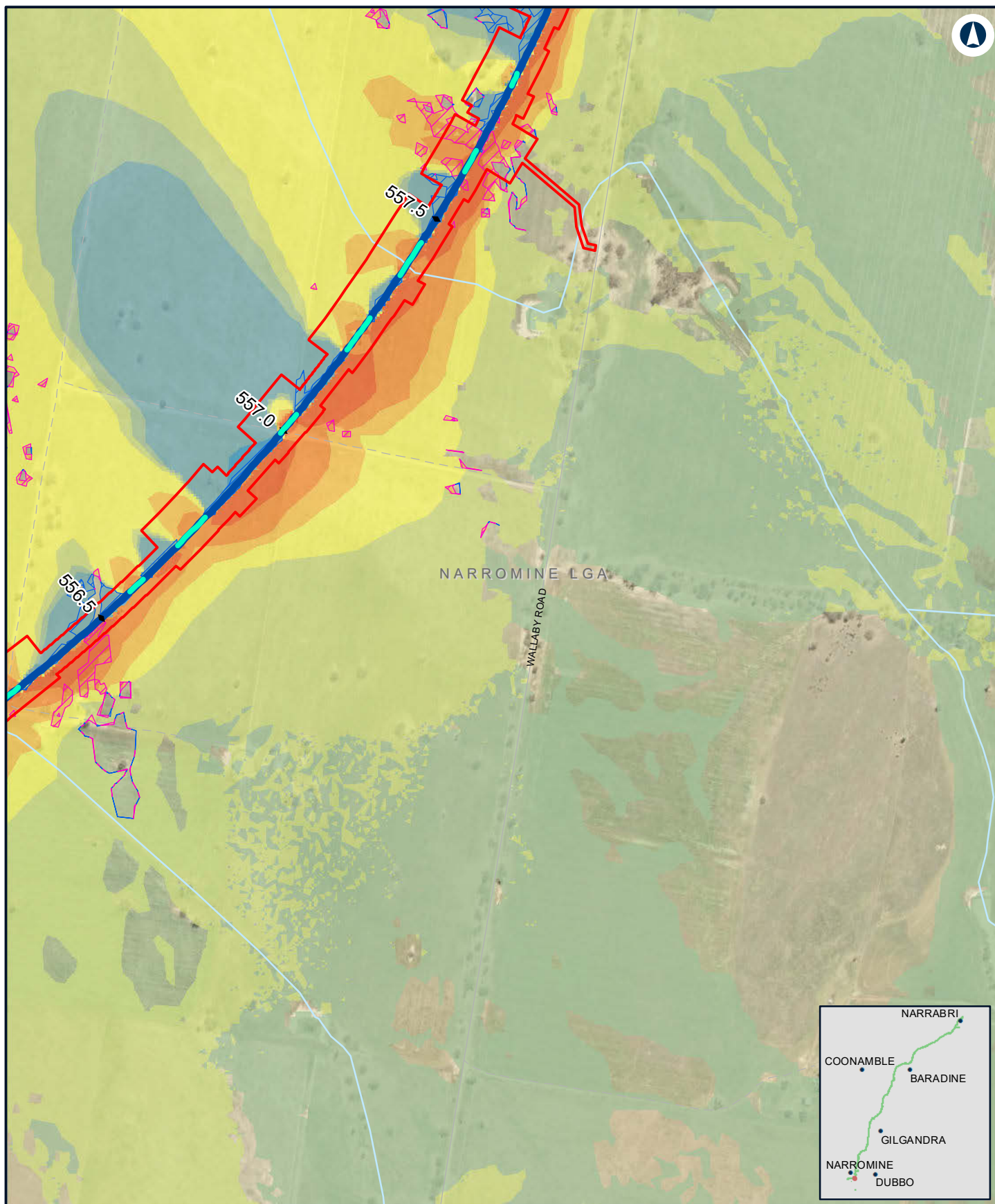
Was dry now wet

Was wet now dry

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.2v

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:10,000

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

LEGEND

	Culvert		0.01 m - 0.05 m increase
	Alignment		0.05 m - 0.1 m increase
	The proposal site		0.1 m - 0.2 m increase
	Afflux		0.2 m - 0.5 m increase
	> 0.2m decrease		> 0.5 m increase
	0.01 m - 0.2 m decrease		Was dry now wet
	0 m - 0.01 m decrease		Was wet now dry
	0 m - 0.01 m increase		

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP with Blockage - Narromine Appendix H - Figure 1.3a

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:10,000

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

LEGEND

Alignment

The proposal

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

Was dry now wet

Was wet now dry

**INLAND
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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP with Blockage - Narromine Appendix H - Figure 1.3b

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

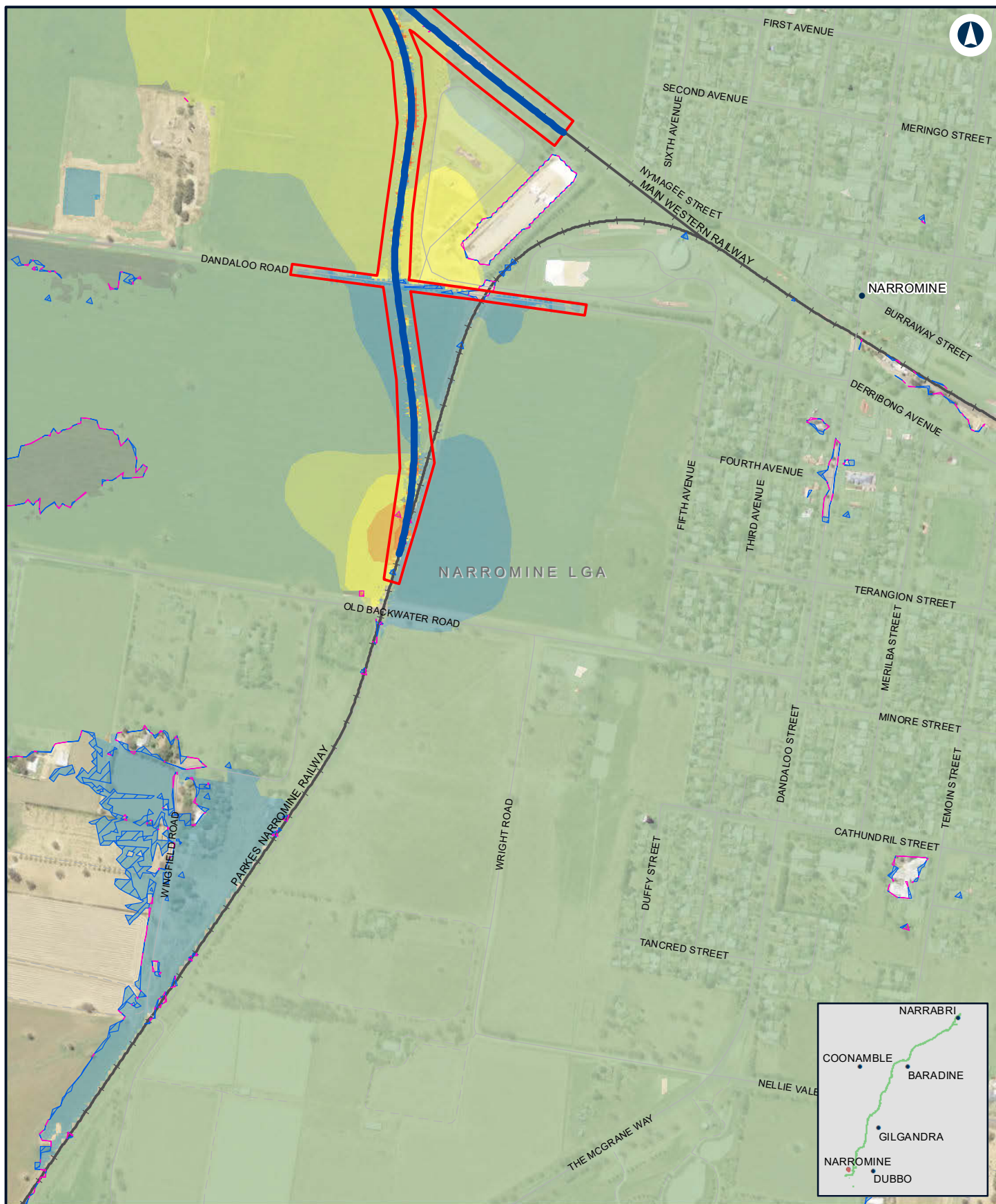
LEGEND

Afflux

- > 0.2m decrease
- 0.01 m - 0.2 m decrease
- 0 m - 0.01 m decrease
- 0 m - 0.01 m increase
- Was dry now wet
- Was wet now dry

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP with Blockage - Narromine Appendix H - Figure 1.3c

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

Alignment

The proposal

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

Was dry now wet

Was wet now dry

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP with Blockage - Narromine Appendix H - Figure 1.3d

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

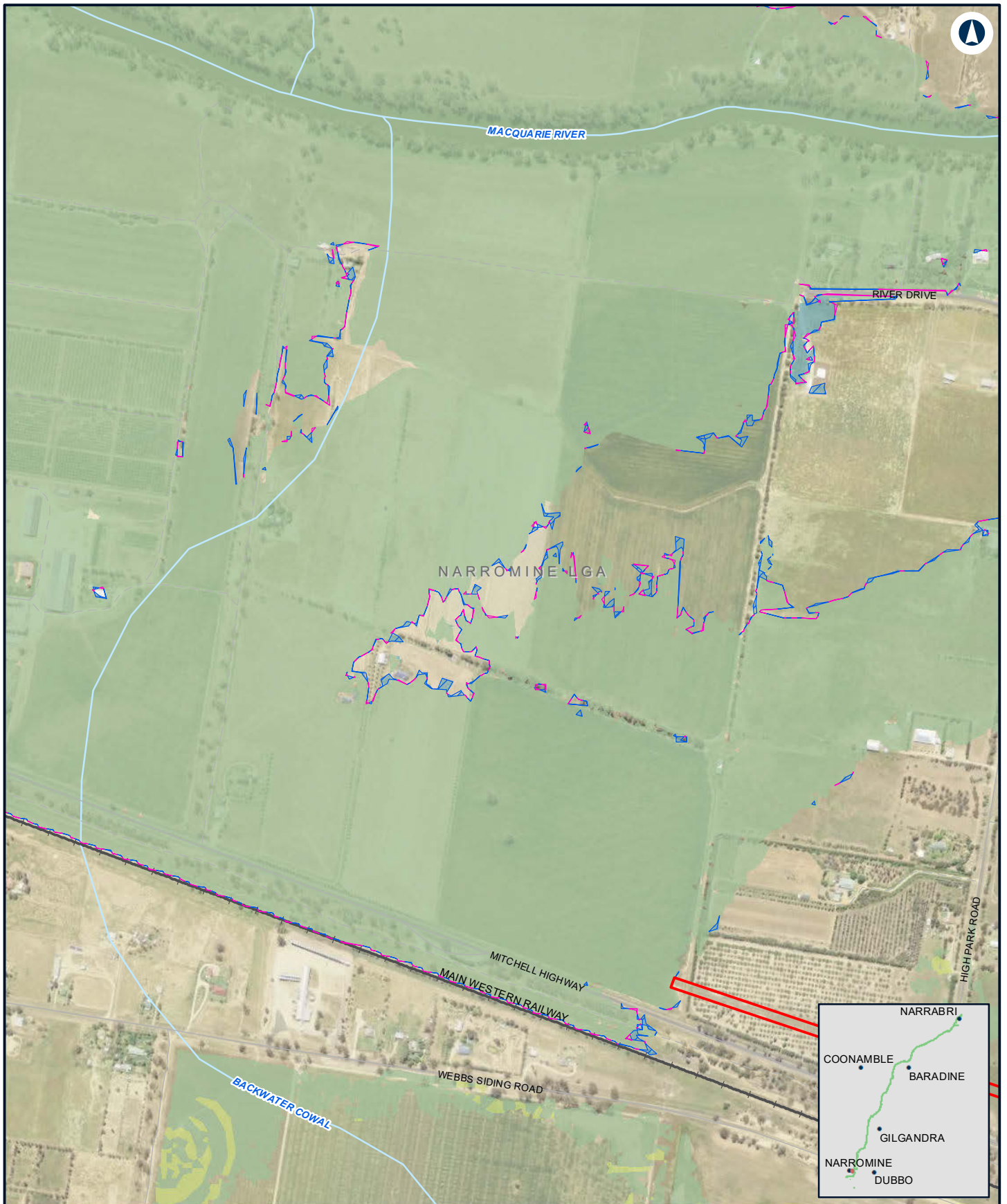
LEGEND

Afflux

- > 0.2m decrease
- 0.01 m - 0.2 m decrease
- 0 m - 0.01 m decrease
- Was dry now wet
- Was wet now dry

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP with Blockage - Narromine Appendix H - Figure 1.3e

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022 Paper: A4
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

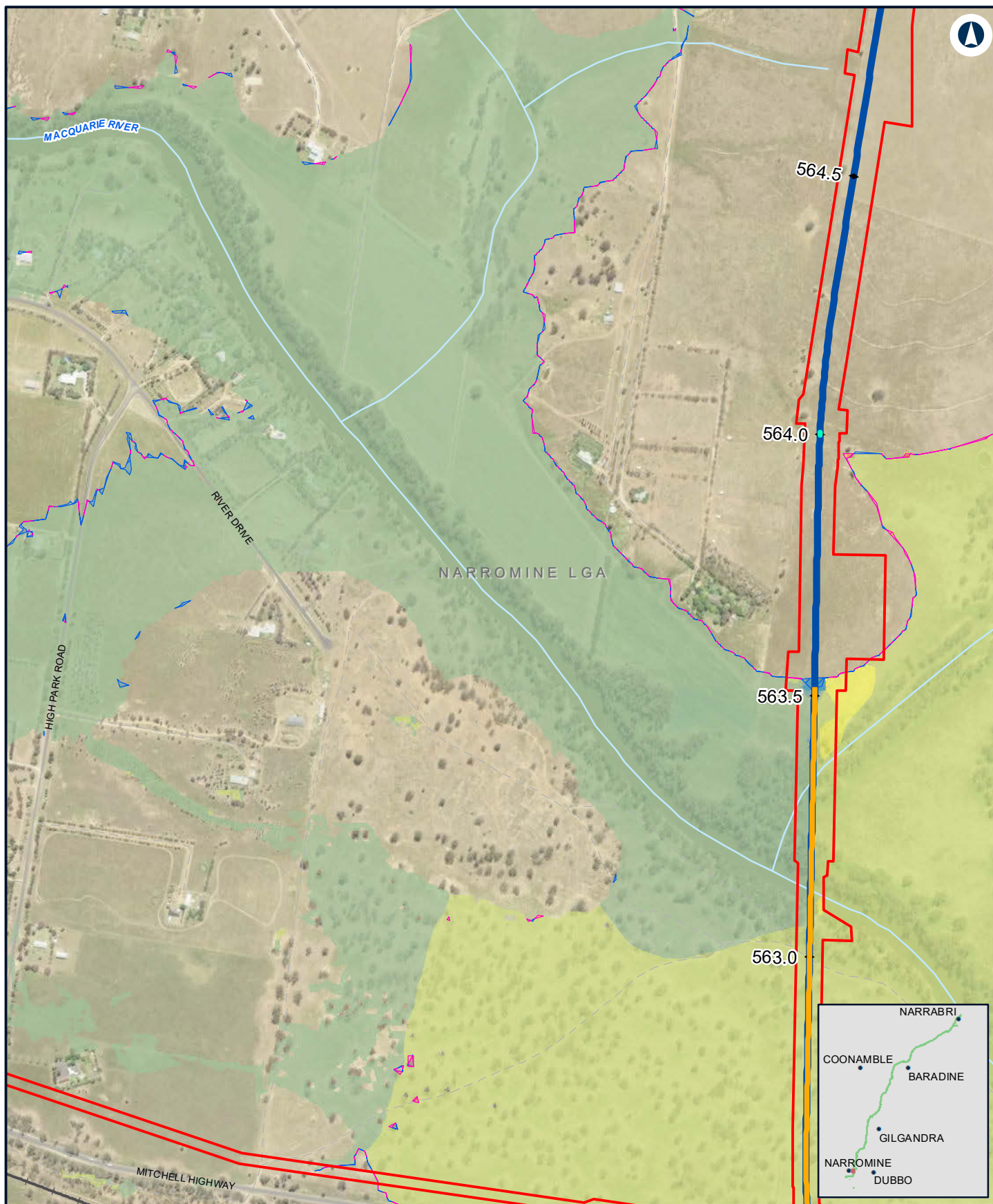
 The proposal

Afflux

- > 0.2m decrease
- 0.01 m - 0.2 m decrease
- 0 m - 0.01 m decrease
- 0 m - 0.01 m increase
- Was dry now wet
- Was wet now dry

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP with Blockage - Narromine Appendix H - Figure 1.3f

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

Bridge

Culvert

Alignment

The proposal

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

Was dry now wet

Was wet now dry

**INLAND
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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP with Blockage - Narromine Appendix H - Figure 1.3g

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

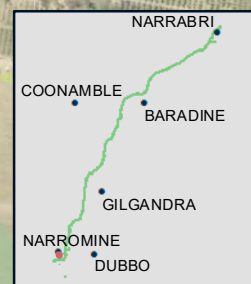
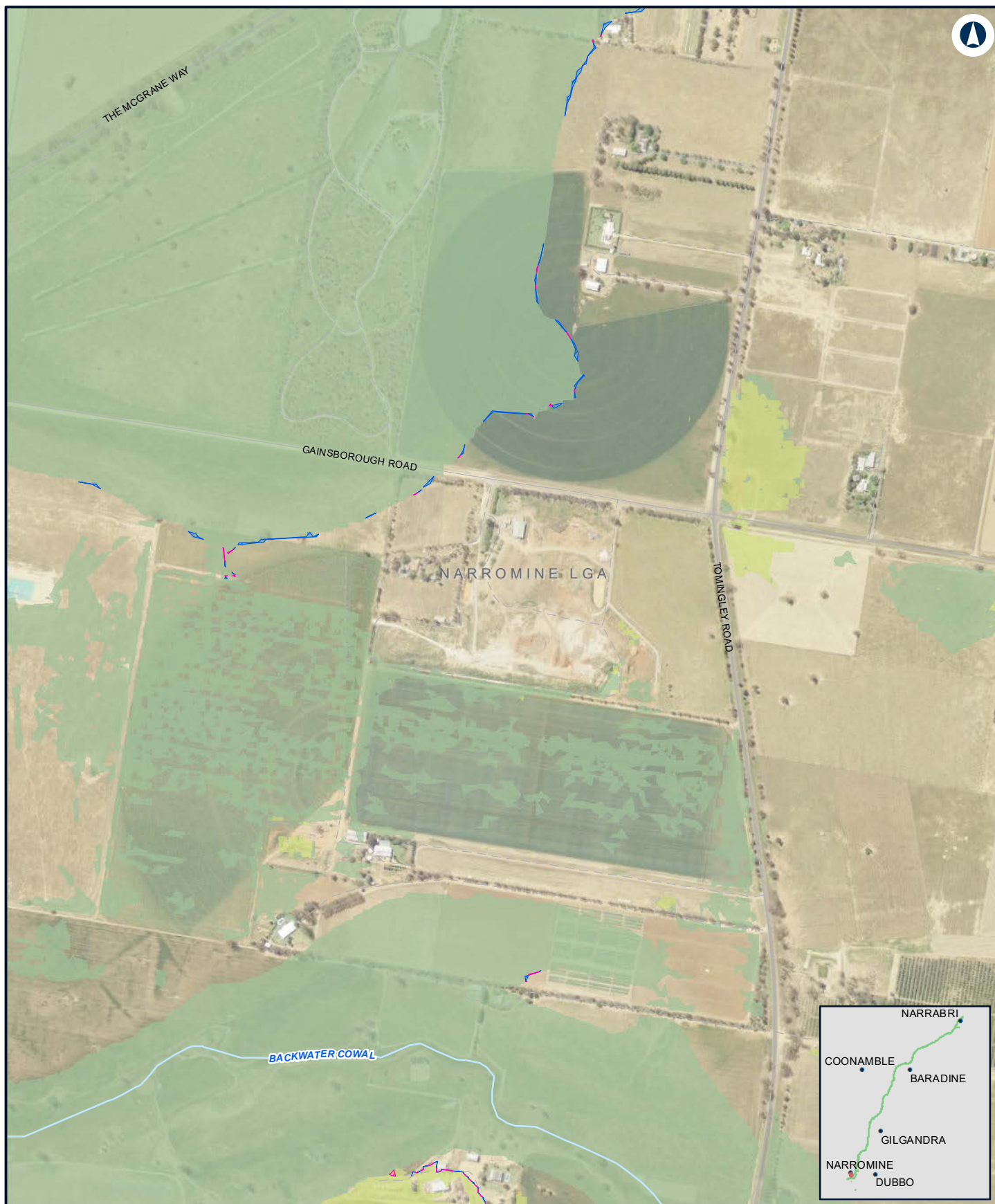
LEGEND

Afflux

- 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
- Was dry now wet
- Was wet now dry

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP with Blockage - Narromine Appendix H - Figure 1.3h

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022 Paper: A4
Author: JacobsGHD Scale: 1:10,000

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

LEGEND

Afflux

- > 0.2m decrease
- 0.01 m - 0.2 m decrease
- 0 m - 0.01 m decrease
- 0 m - 0.01 m increase
- 0.05 m - 0.1 m increase
- Was dry now wet
- Was wet now dry

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP with Blockage - Narromine Appendix H - Figure 1.3i

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

Afflux

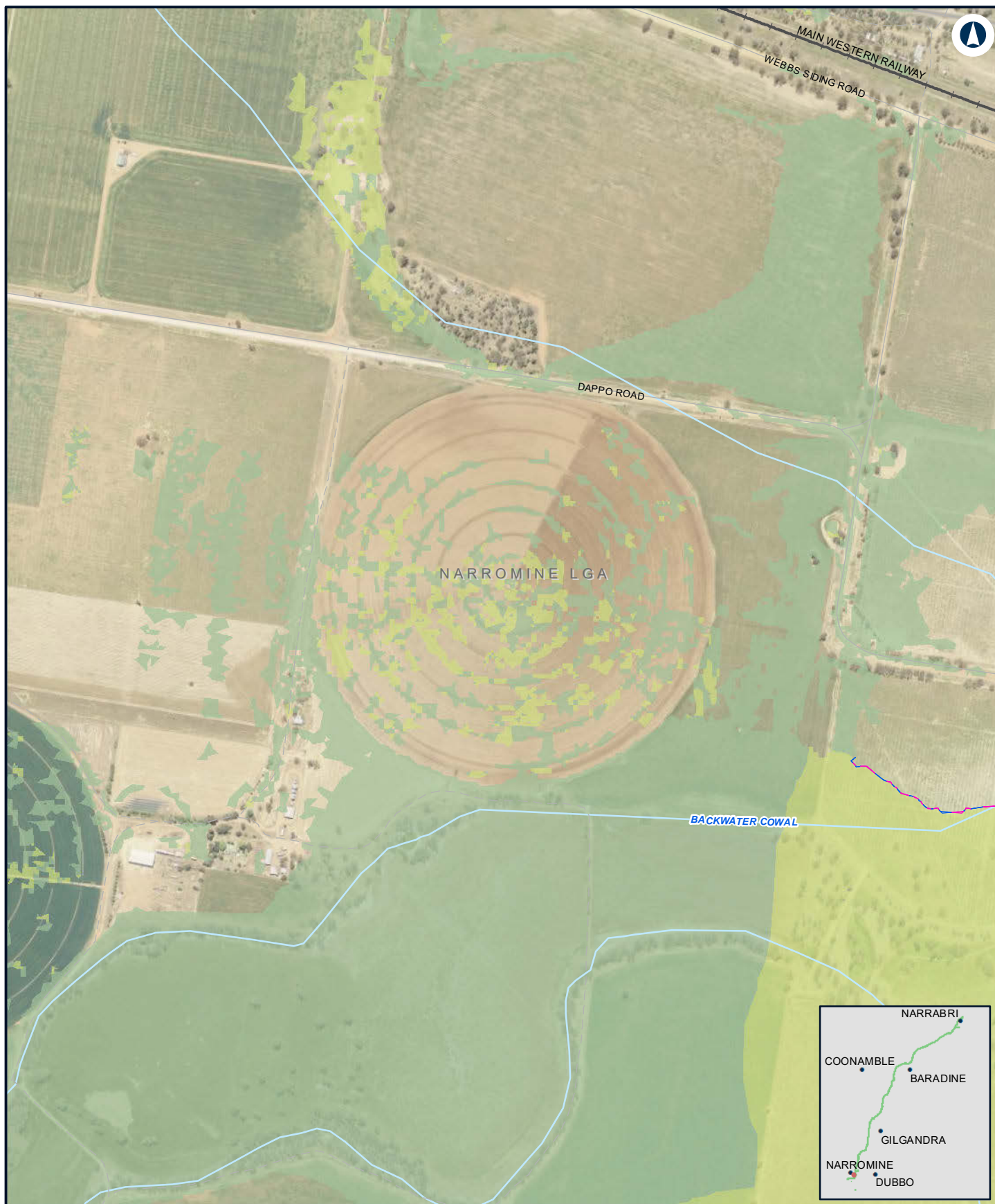
- 0.01 m - 0.2 m decrease
- 0 m - 0.01 m decrease
- 0 m - 0.01 m increase
- 0.01 m - 0.05 m increase

Was dry now wet

Was wet now dry

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP with Blockage - Narromine Appendix H - Figure 1.3j

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

Afflux

0 m - 0.01 m decrease

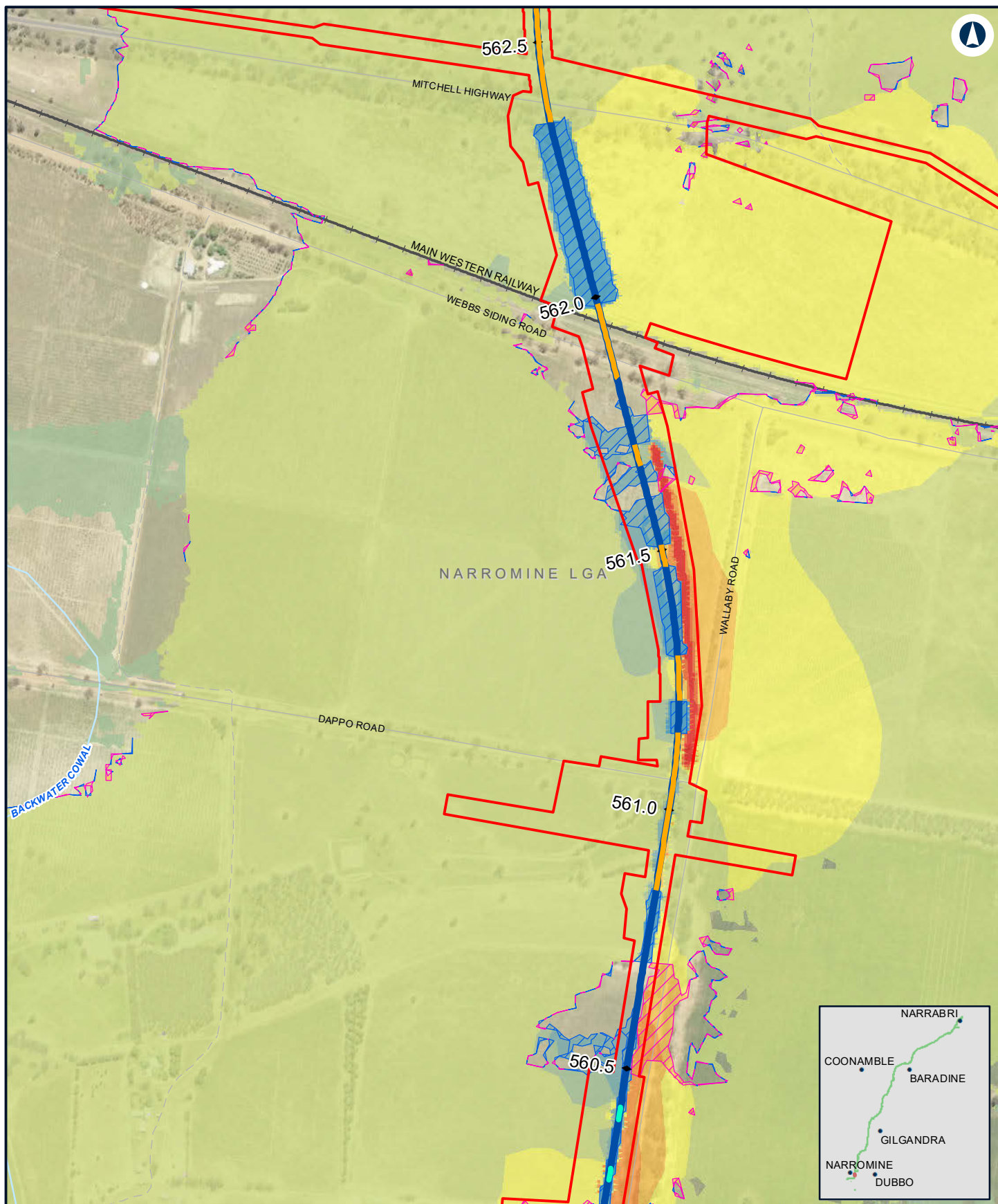
0 m - 0.01 m increase

Was dry now wet

Was wet now dry

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NARROMINE TO NARRABRI Change in peak flood level (afflux) - Detail - 1% AEP with Blockage - Narromine Appendix H - Figure 1.3k

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:10,000

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

LEGEND

Bridge	0 m - 0.01 m increase
Culvert	0.01 m - 0.05 m increase
Alignment	0.05 m - 0.1 m increase
The proposal	0.1 m - 0.2 m increase
Afflux	0.2 m - 0.5 m increase
> 0.2m decrease	> 0.5 m increase
0.01 m - 0.2 m decrease	Was dry now wet
0 m - 0.01 m decrease	Was wet now dry

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP with Blockage - Narromine Appendix H - Figure 1.3I

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022 Paper: A4
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

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

Was dry now wet

Was wet now dry

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP with Blockage - NarromineAppendix H - Figure 1.3m

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

Afflux

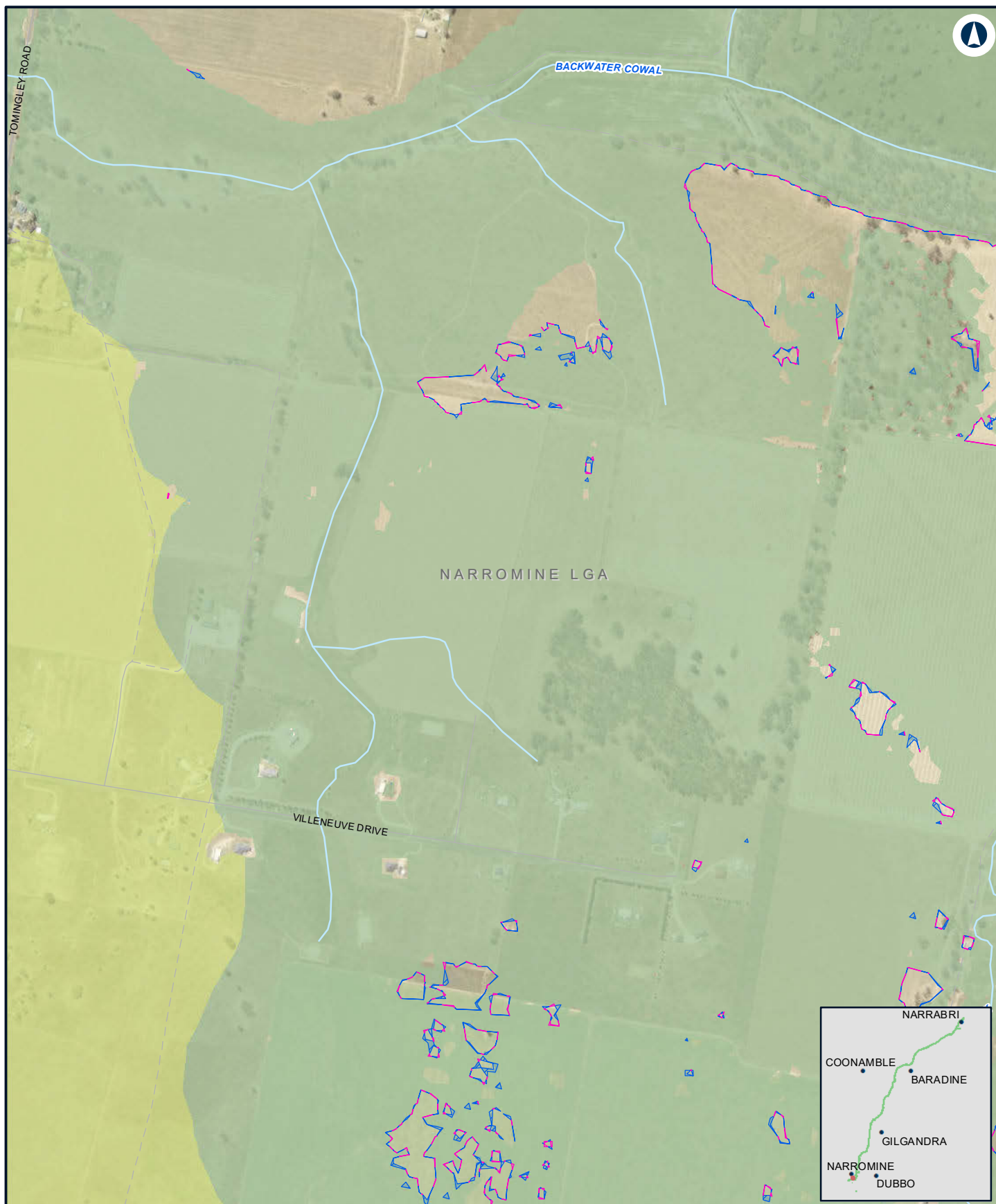
- 0 m - 0.01 m decrease
- 0 m - 0.01 m increase
- 0.01 m - 0.05 m increase
- 0.05 m - 0.1 m increase
- 0.1 m - 0.2 m increase
- 0.2 m - 0.5 m increase

Was dry now wet

Was wet now dry

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP with Blockage - Narromine Appendix H - Figure 1.3n

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

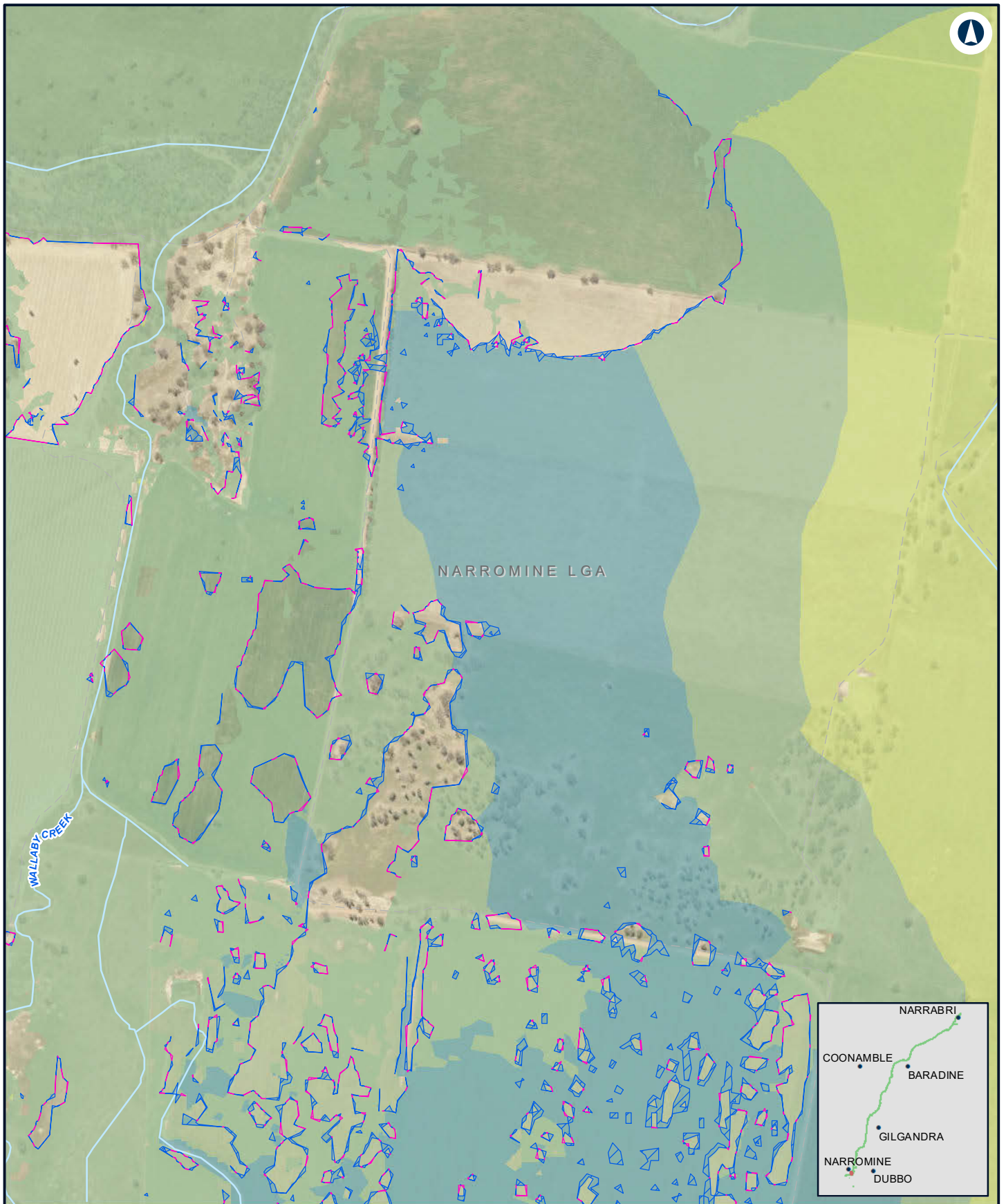
LEGEND

Afflux

- > 0.2m decrease
- 0.01 m - 0.2 m decrease
- 0 m - 0.01 m decrease
- 0 m - 0.01 m increase
- 0.05 m - 0.1 m increase
- Was dry now wet
- Was wet now dry

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP with Blockage - Narromine Appendix H - Figure 1.3a

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

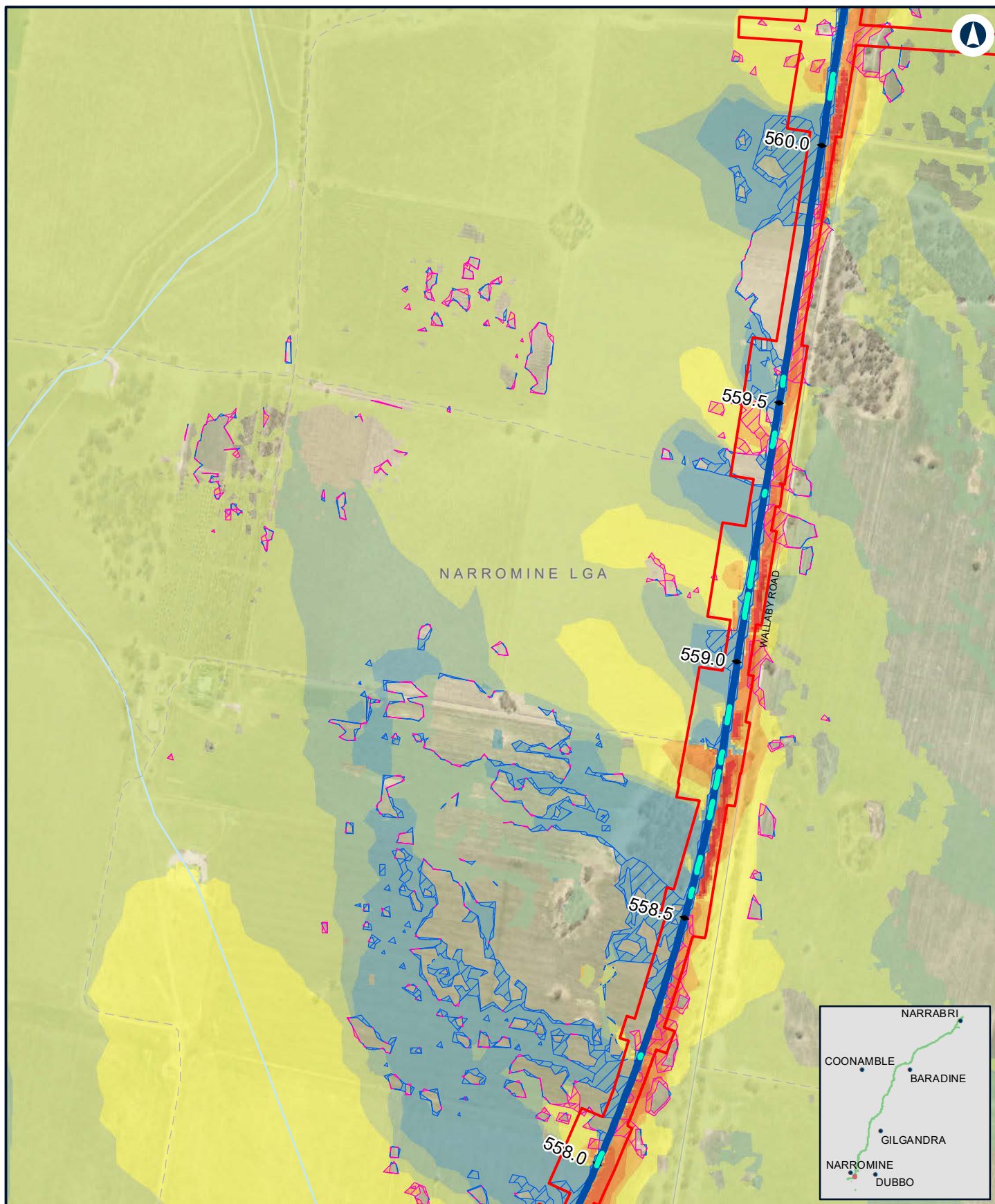
LEGEND

Afflux

- > 0.2m decrease
- 0.01 m - 0.2 m decrease
- 0 m - 0.01 m decrease
- 0 m - 0.01 m increase
- Was dry now wet
- Was wet now dry

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP with Blockage - Narromine Appendix H - Figure 1.3p

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

Culvert

Alignment

The proposal

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

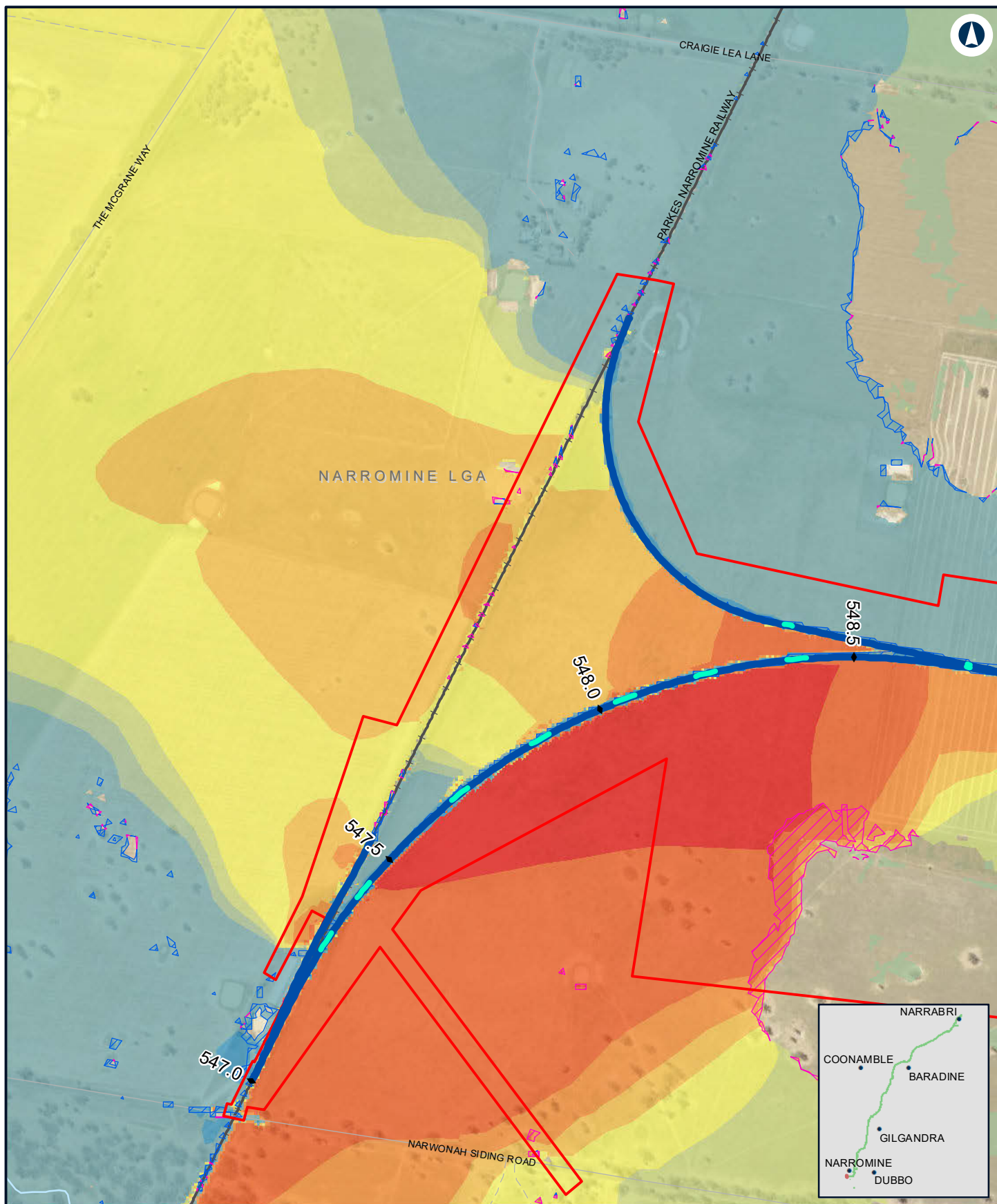
Was dry now wet

Was wet now dry

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP with Blockage - Narromine Appendix H - Figure 1.3q

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:10,000

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

LEGEND

Culvert

Alignment

The proposal

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

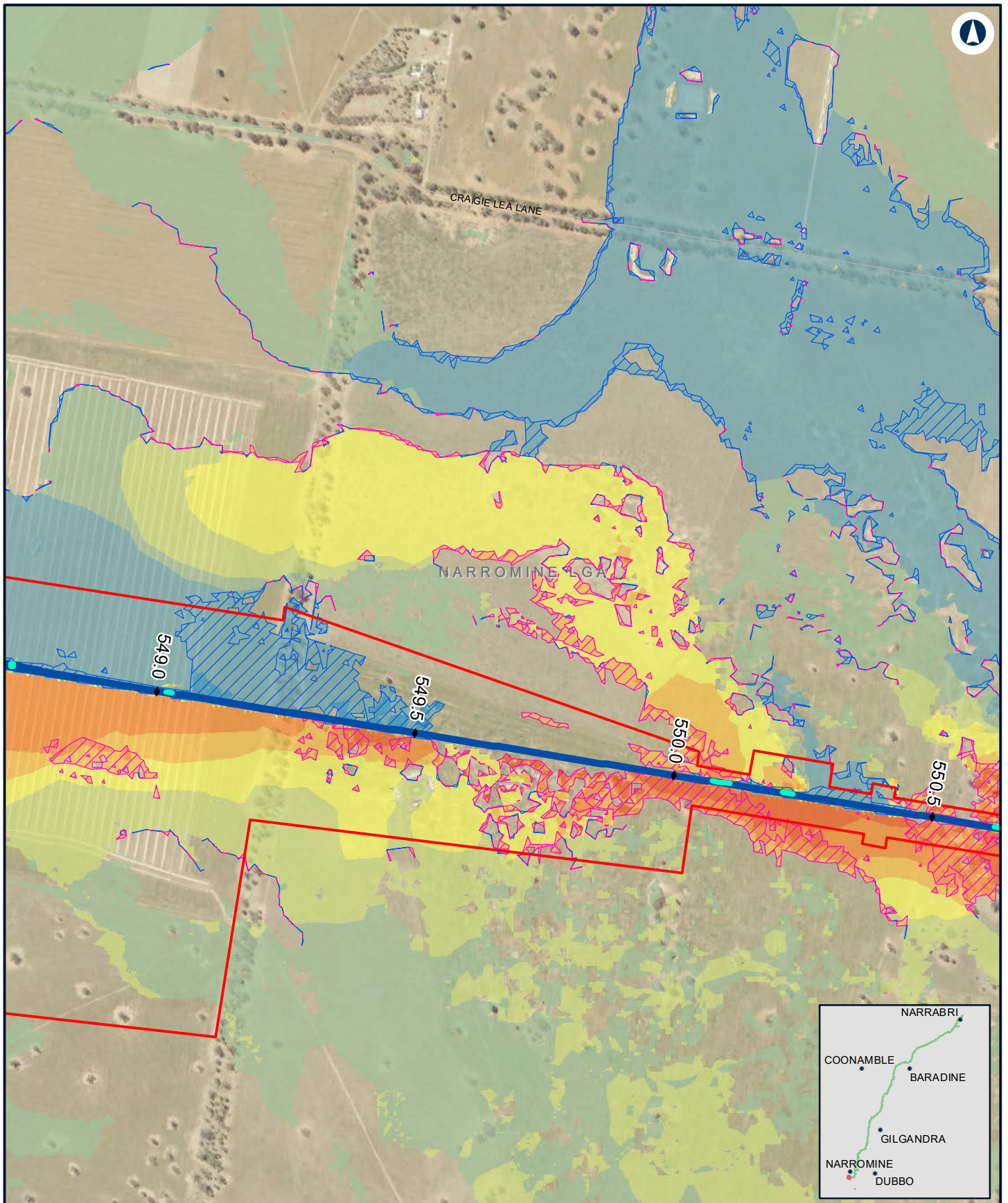
Was dry now wet

Was wet now dry

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP with Blockage - Narromine Appendix H - Figure 1.3r

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:10,000

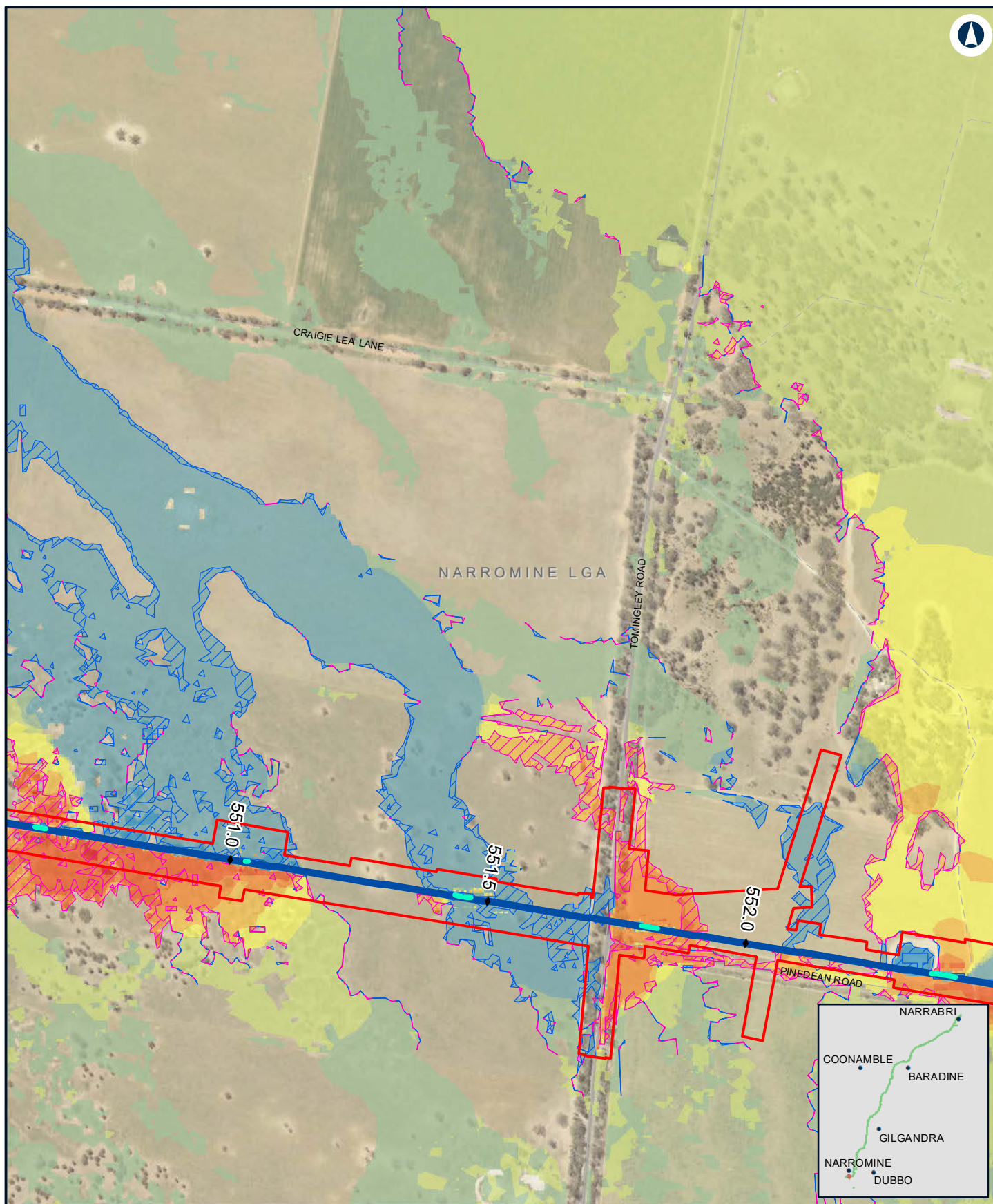
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

	Culvert		0.01 m - 0.05 m increase
	Alignment		0.05 m - 0.1 m increase
	The proposal		0.1 m - 0.2 m increase
	Afflux		0.2 m - 0.5 m increase
	> 0.2m decrease		> 0.5 m increase
	0.01 m - 0.2 m decrease		Was dry now wet
	0 m - 0.01 m decrease		Was wet now dry
	0 m - 0.01 m increase		

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP with Blockage - Narromine Appendix H - Figure 1.3s

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

Culvert

Alignment

The proposal

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

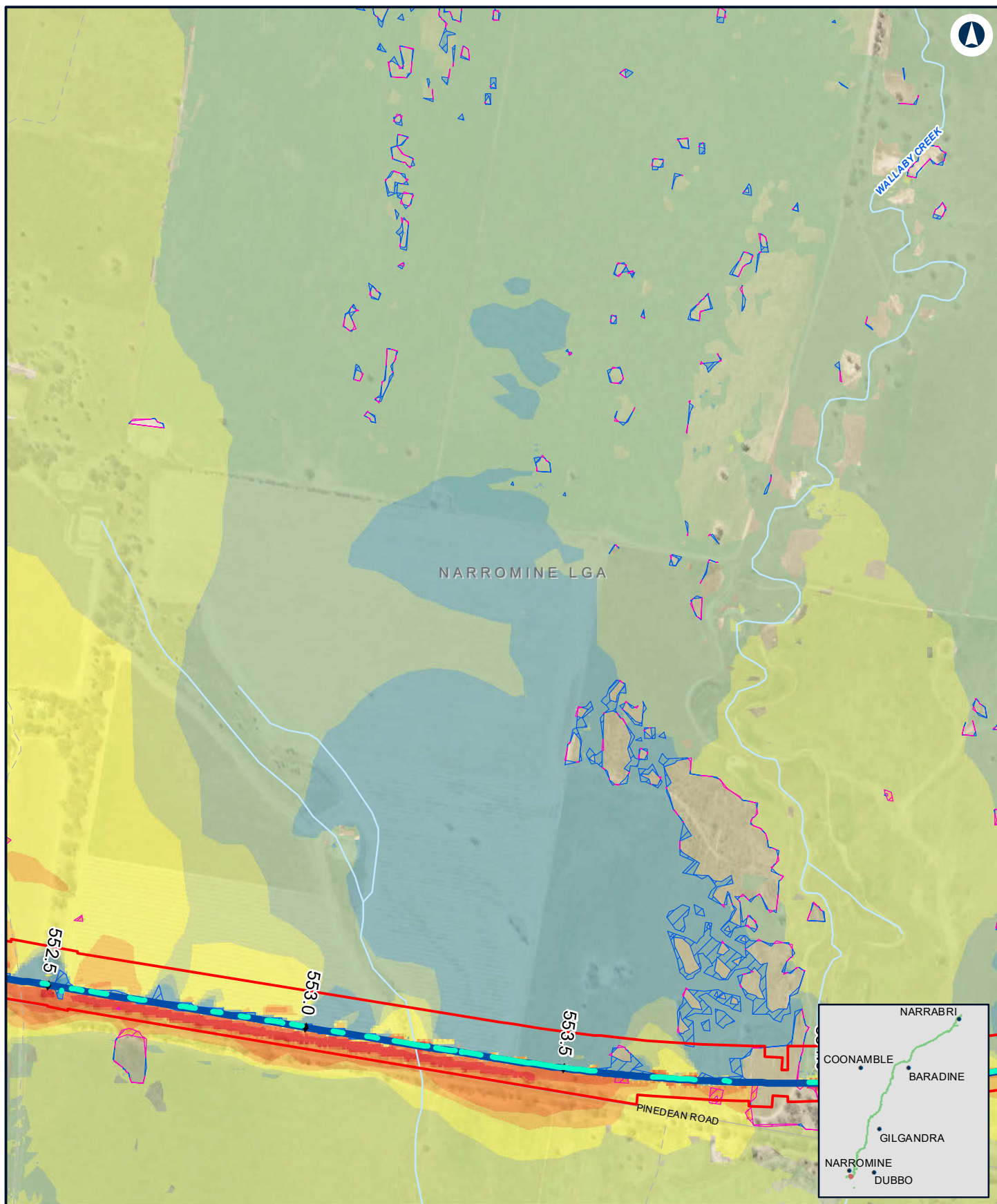
Was dry now wet

Was wet now dry

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP with Blockage - Narromine Appendix H - Figure 1.3t

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022 Paper: A4
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

Culvert

Alignment

The proposal

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

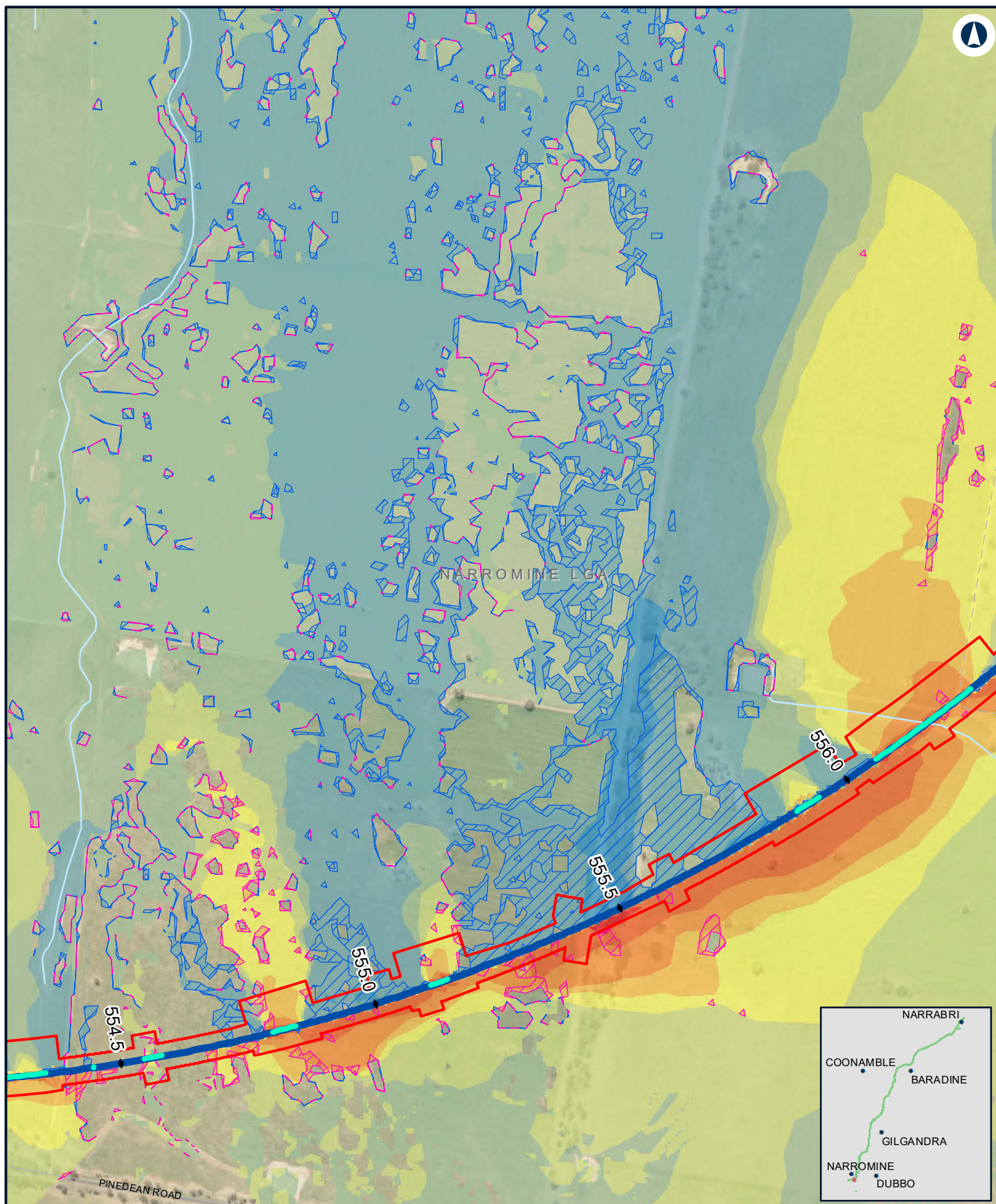
Was dry now wet

Was wet now dry

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP with Blockage - Narromine Appendix H - Figure 1.3u

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

Culvert

Alignment

The proposal

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

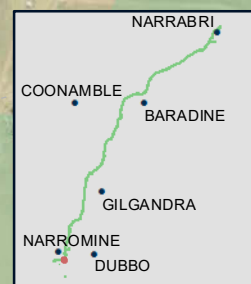
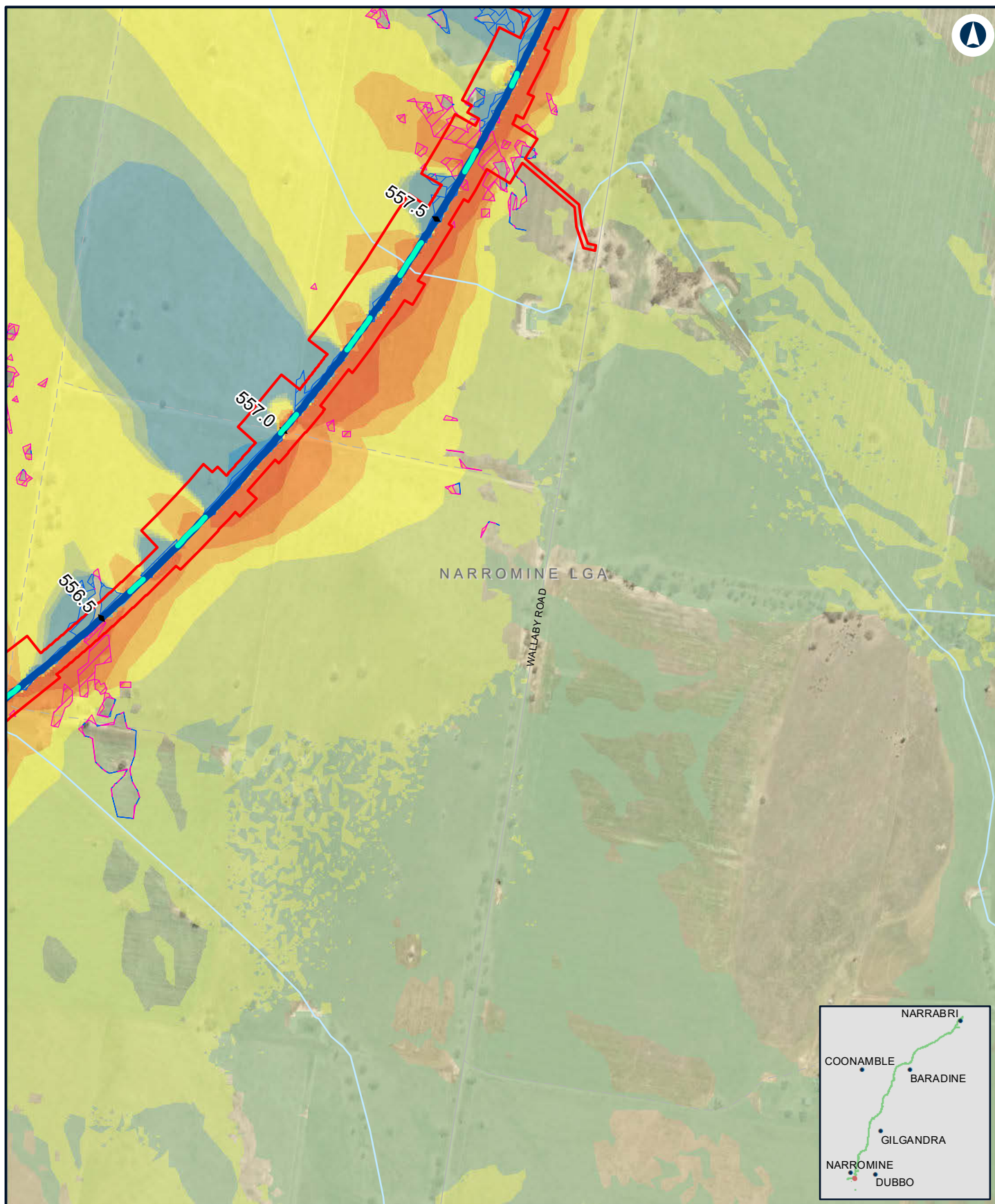
Was dry now wet

Was wet now dry

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP with Blockage - Narromine Appendix H - Figure 1.3v

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:10,000

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

LEGEND

Culvert

Alignment

The proposal

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

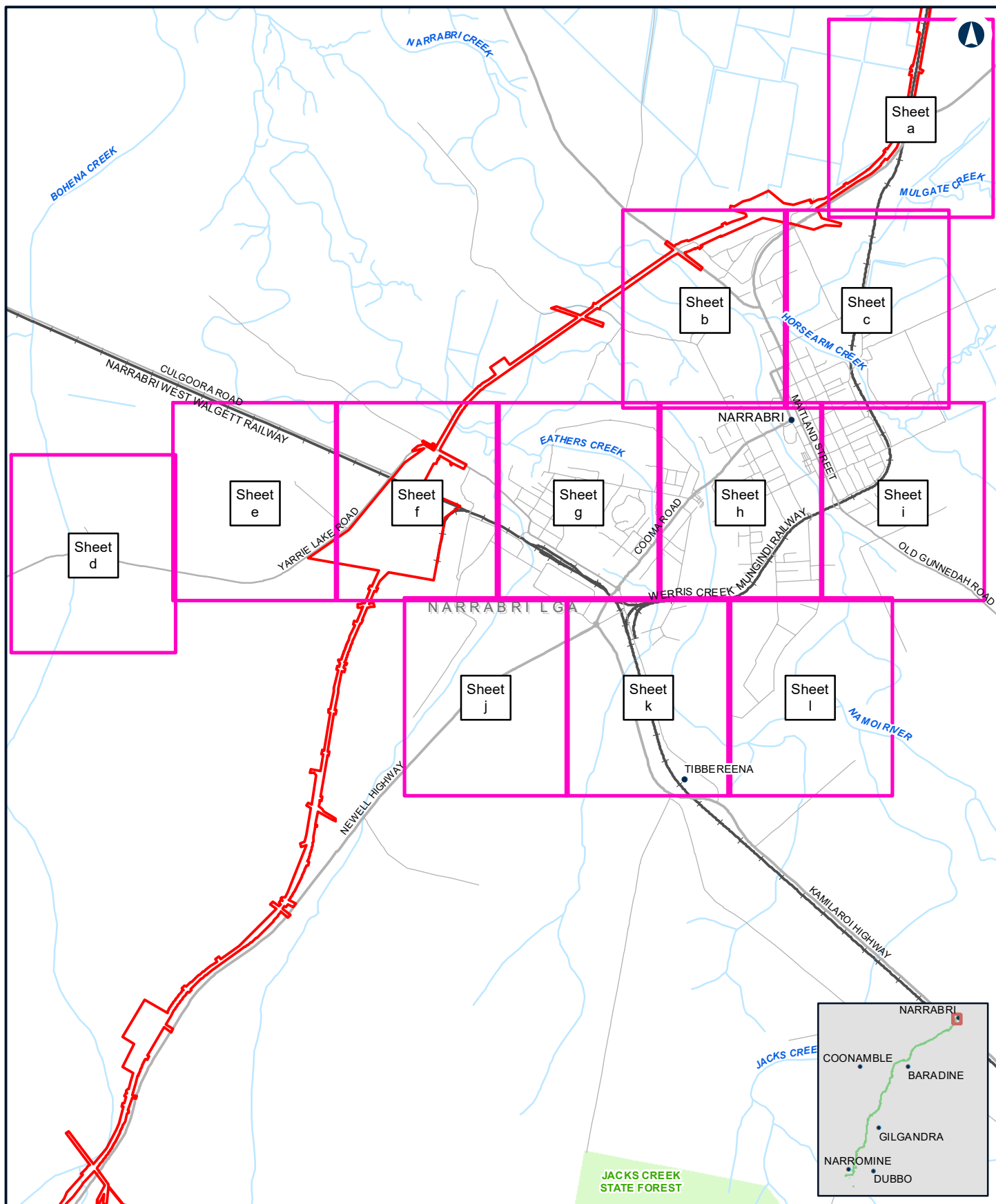
Was dry now wet

Was wet now dry

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NARROMINE TO NARRABRI

Map index sheet - Narrabri

Appendix H - Index Sheet 2

0 0.8 1.6
Km

LEGEND

The proposal site

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/01/2022

Paper: A4

Author: JacobsGHD

Scale: 1:60,000

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

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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - Detail - 1% AEP - Narrabri

Appendix H - Figure 2.1a

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022
Author: JacobsGHD
Data Sources: Basemap layers: NSWSS;

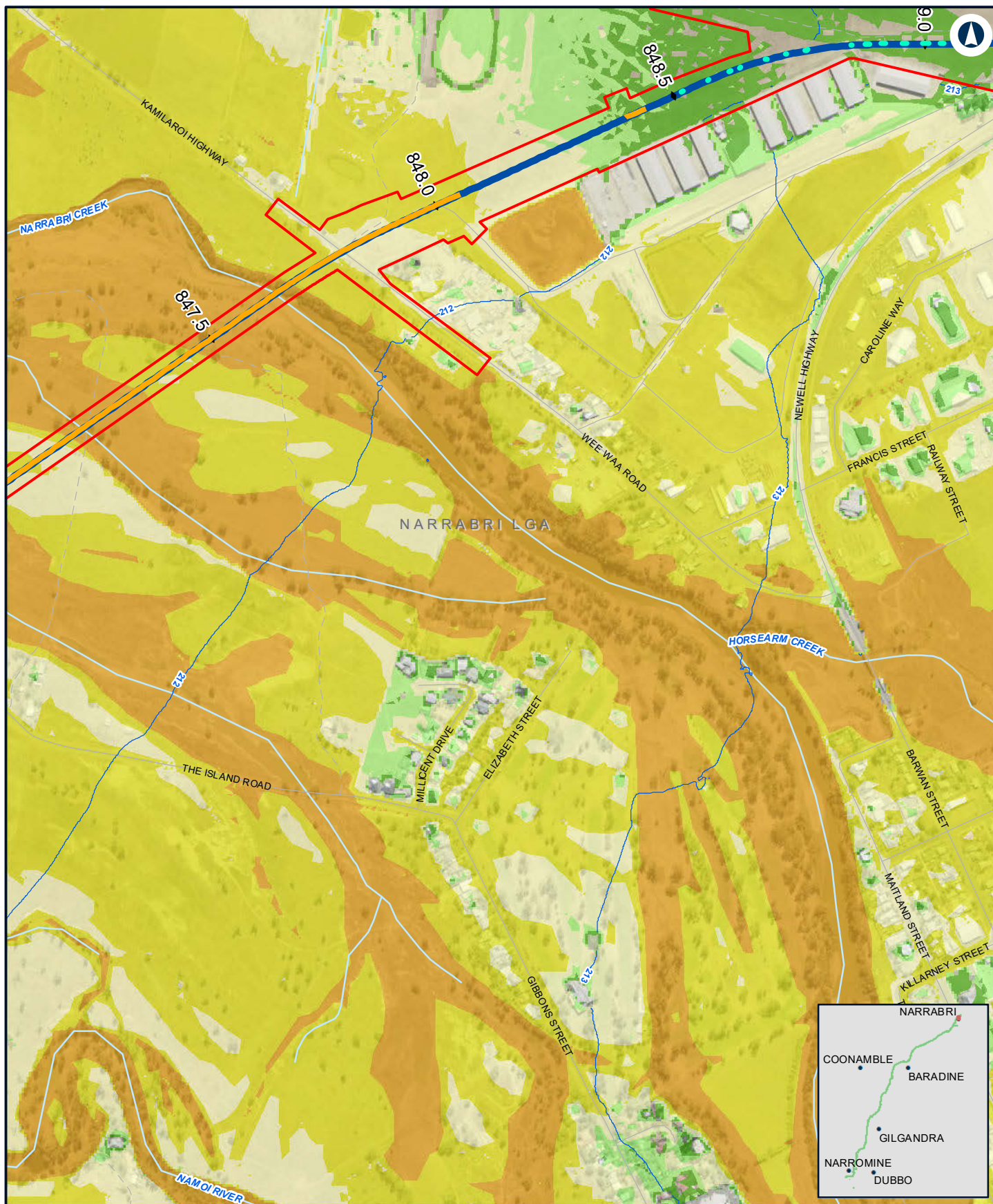
Paper: A4
Scale: 1:10,000

LEGEND

— Flood level (maHD)	Flood depth
— Culvert	0.0m - 0.25m
— Alignment	0.25m - 0.5m
— The proposal	0.5m - 1.0m
	1.0m - 2.0m
	> 2.0m

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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - Detail - 1% AEP - Narrabri

Appendix H - Figure 2.1b

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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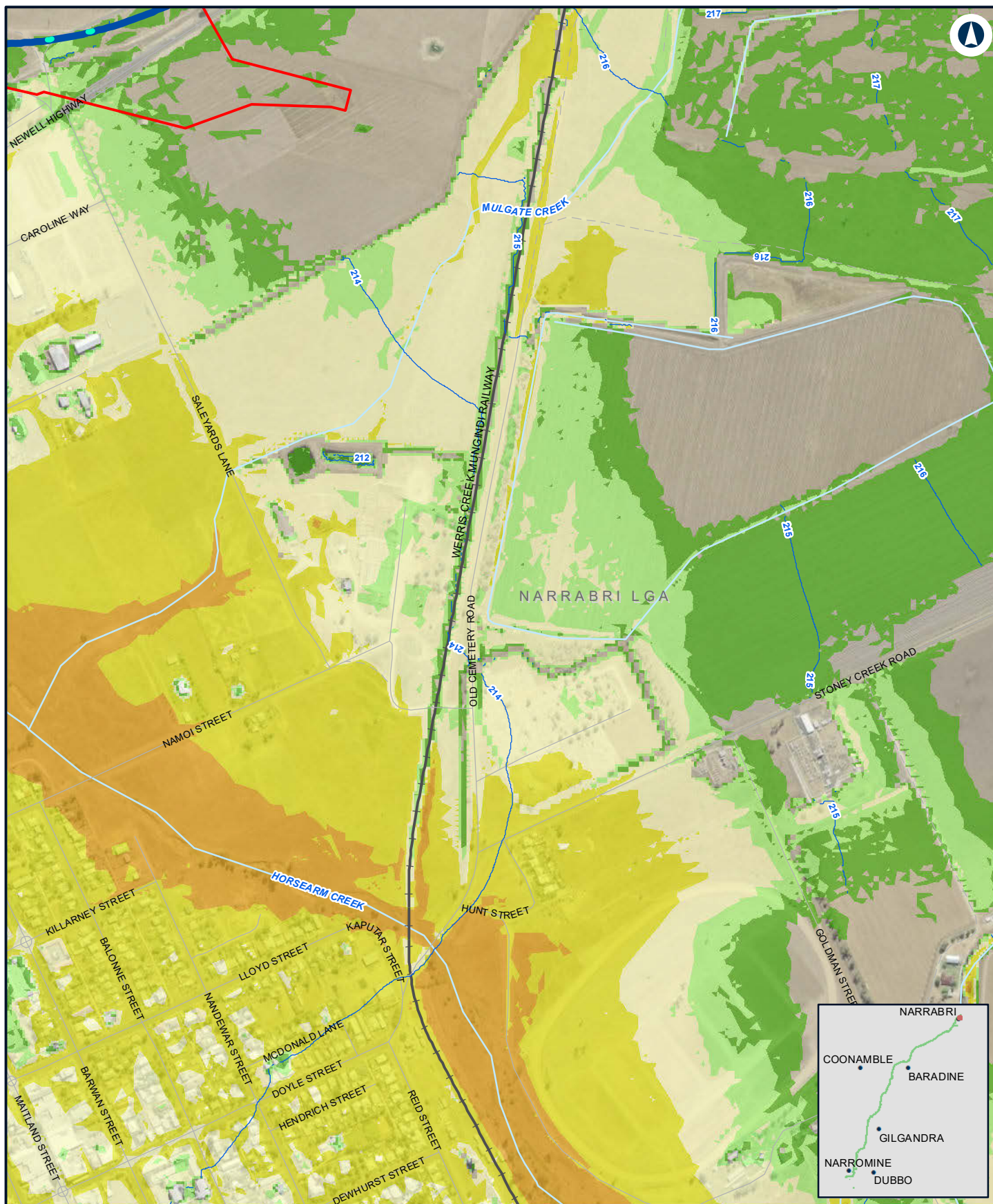
Date: 8/08/2022 Paper: A4
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS;

LEGEND

— Flood level (mAHD)	Flood depth
— Bridge	0.0m - 0.25m
— Culvert	0.25m - 0.5m
— Alignment	0.5m - 1.0m
— The proposal	1.0m - 2.0m
	> 2.0m

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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - Detail - 1% AEP - Narrabri

Appendix H - Figure 2.1c

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022
Author: JacobsGHD
Data Sources: Basemap layers: NSWSS;

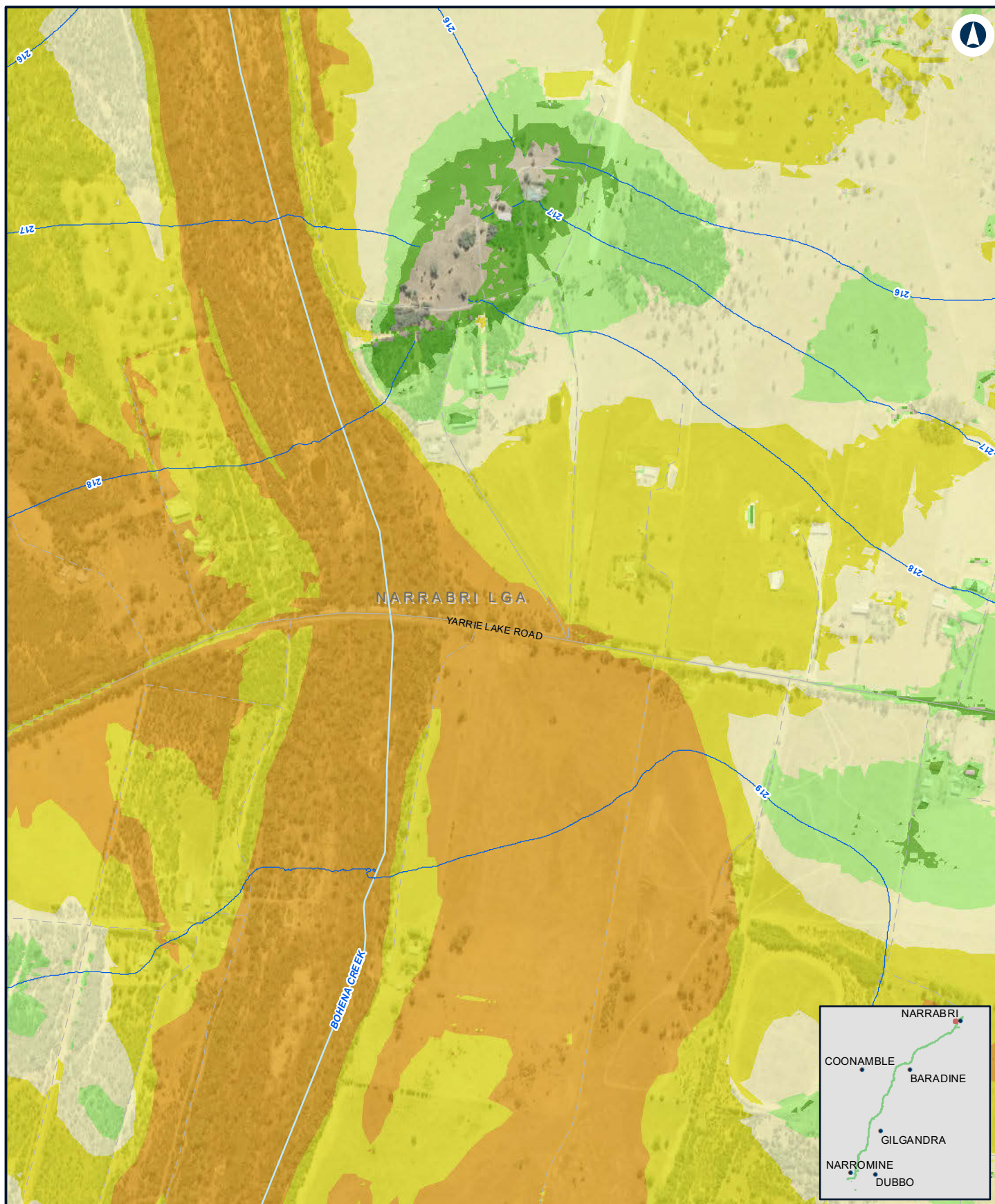
Paper: A4
Scale: 1:10,000

LEGEND

- | | |
|----------------------|--------------------|
| — Flood level (mAHD) | Flood depth |
| — Culvert | 0.0m - 0.25m |
| — Alignment | 0.25m - 0.5m |
| — The proposal | 0.5m - 1.0m |
| | 1.0m - 2.0m |
| | > 2.0m |

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NARRABRI TO NARRABRI

Existing peak depth / level (contour) - Detail - 1% AEP - Narrabri

Appendix H - Figure 2.1d

0 0.1 0.2
Km

LEGEND

— Flood level (mAHD) Flood depth

0.0m - 0.25m
0.25m - 0.5m
0.5m - 1.0m
1.0m - 2.0m
> 2.0m

Coordinate System: GDA 1994 MGA Zone 55

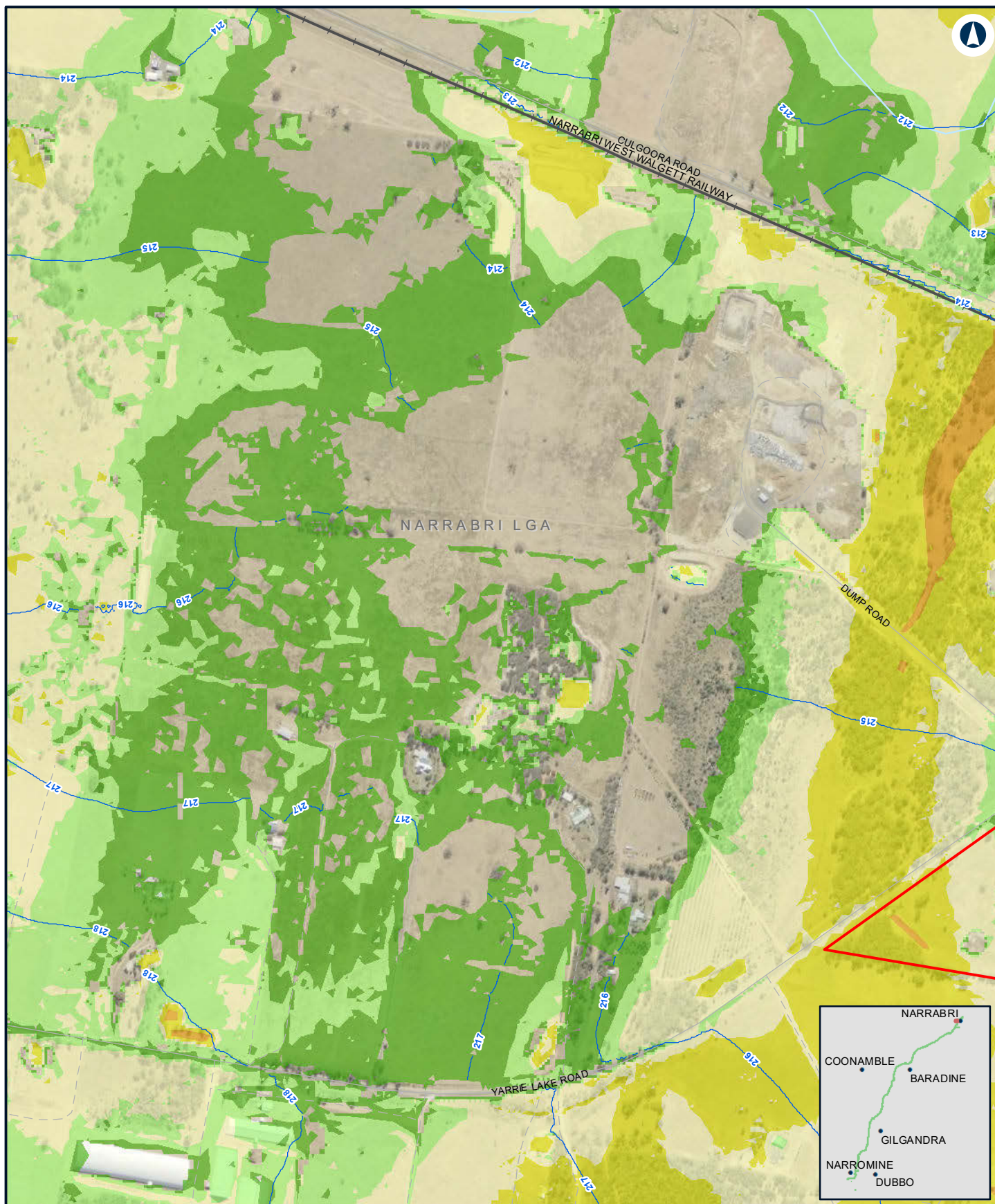
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Date: 8/08/2022 Paper: A4
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS;

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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - Detail - 1% AEP - Narrabri

Appendix H - Figure 2.1e

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022 Paper: A4
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS;

LEGEND

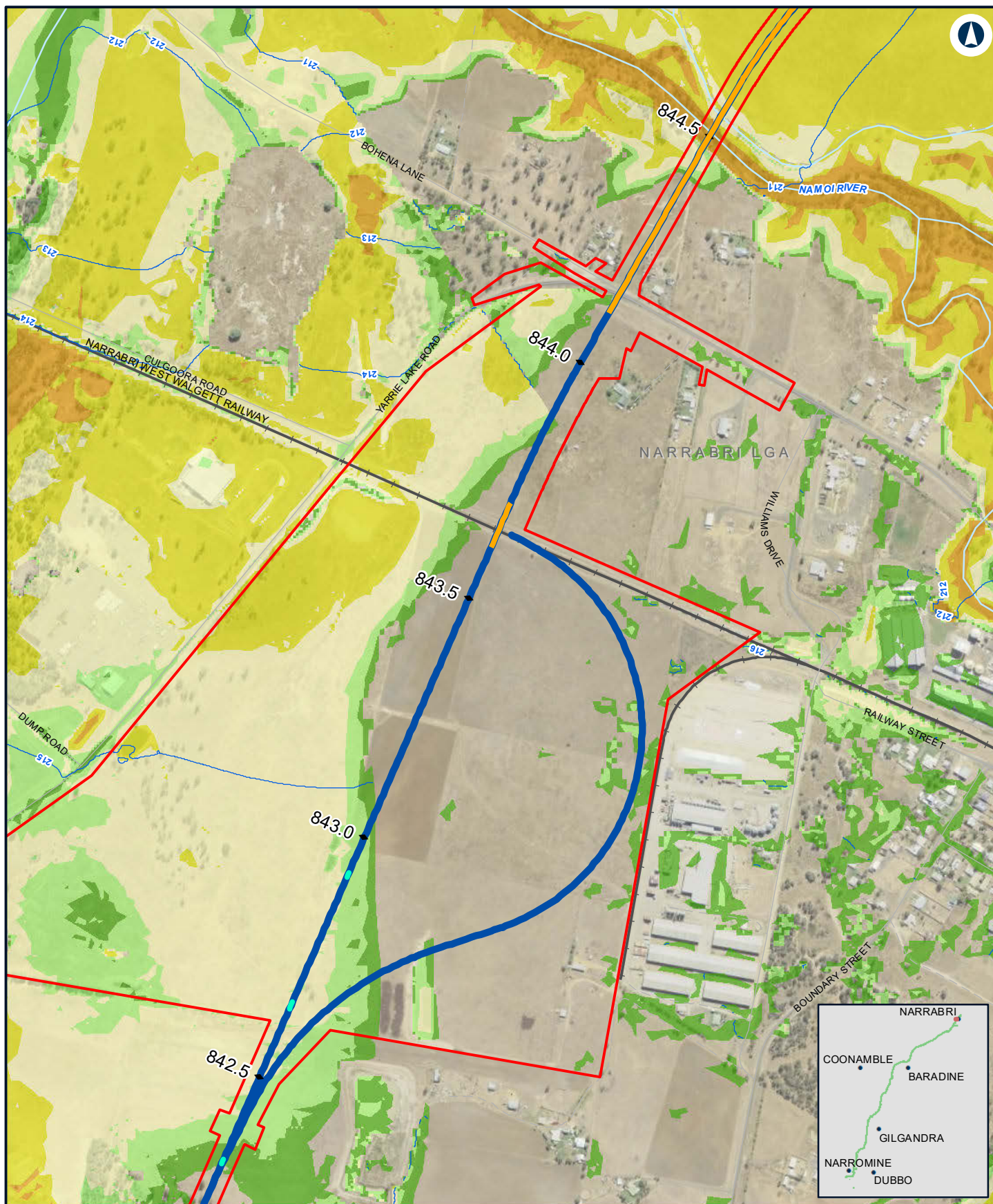
- Flood level (mAHD)
- The proposal

Flood depth

- 0.0m - 0.25m
- 0.25m - 0.5m
- 0.5m - 1.0m
- 1.0m - 2.0m
- > 2.0m

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NARRABRI TO NARRABRI

Existing peak depth / level (contour) - Detail - 1% AEP - Narrabri

Appendix H - Figure 2.1f

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022
Author: JacobsGHD
Data Sources: Basemap layers: NSWSS;

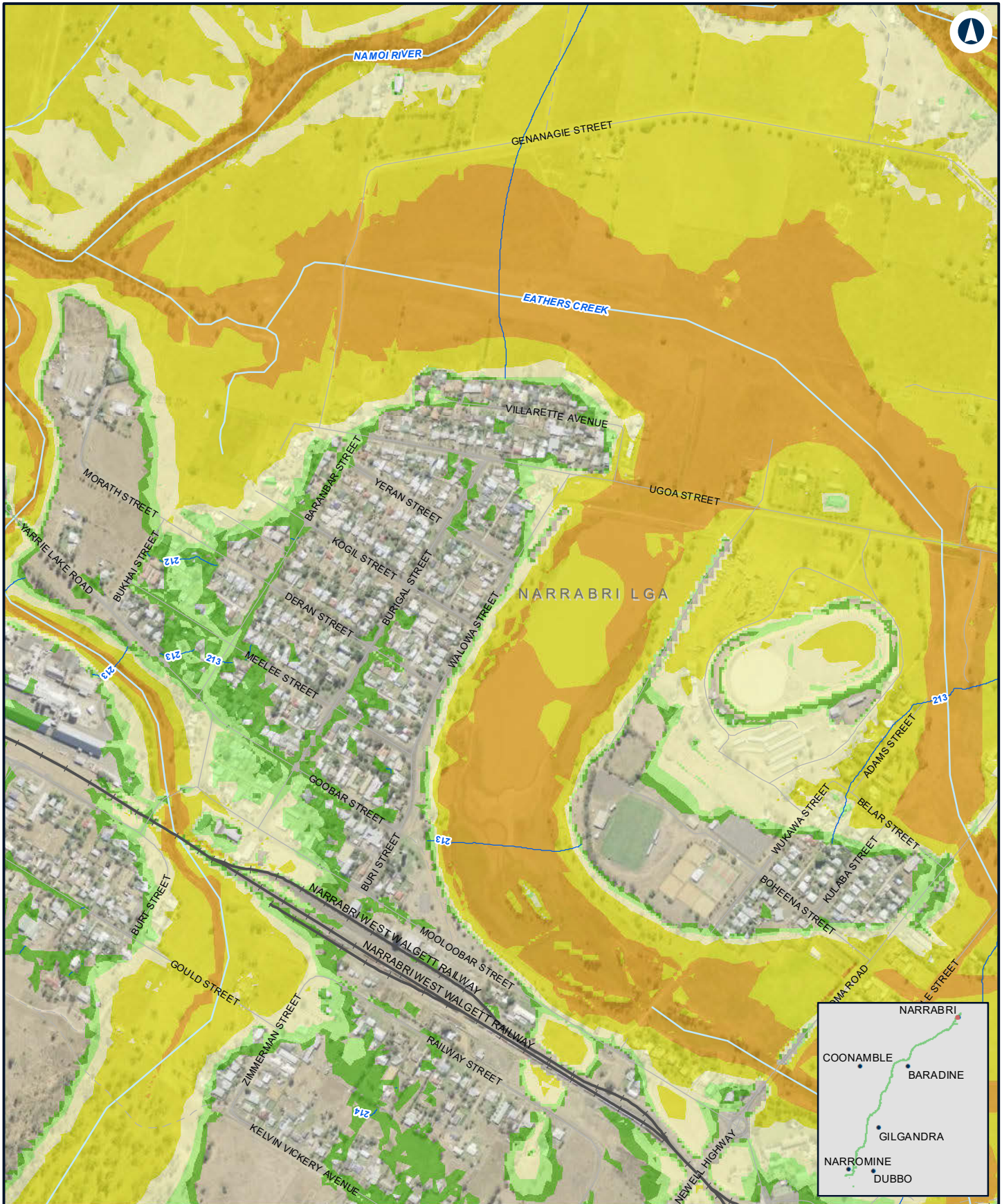
Paper: A4
Scale: 1:10,000

LEGEND

— Flood level (mAHD)	Flood depth
— Bridge	0.0m - 0.25m
— Culvert	0.25m - 0.5m
— Alignment	0.5m - 1.0m
— The proposal	1.0m - 2.0m
	> 2.0m

INLAND RAIL **ARTC**

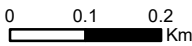
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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - Detail - 1% AEP - Narrabri

Appendix H - Figure 2.1g



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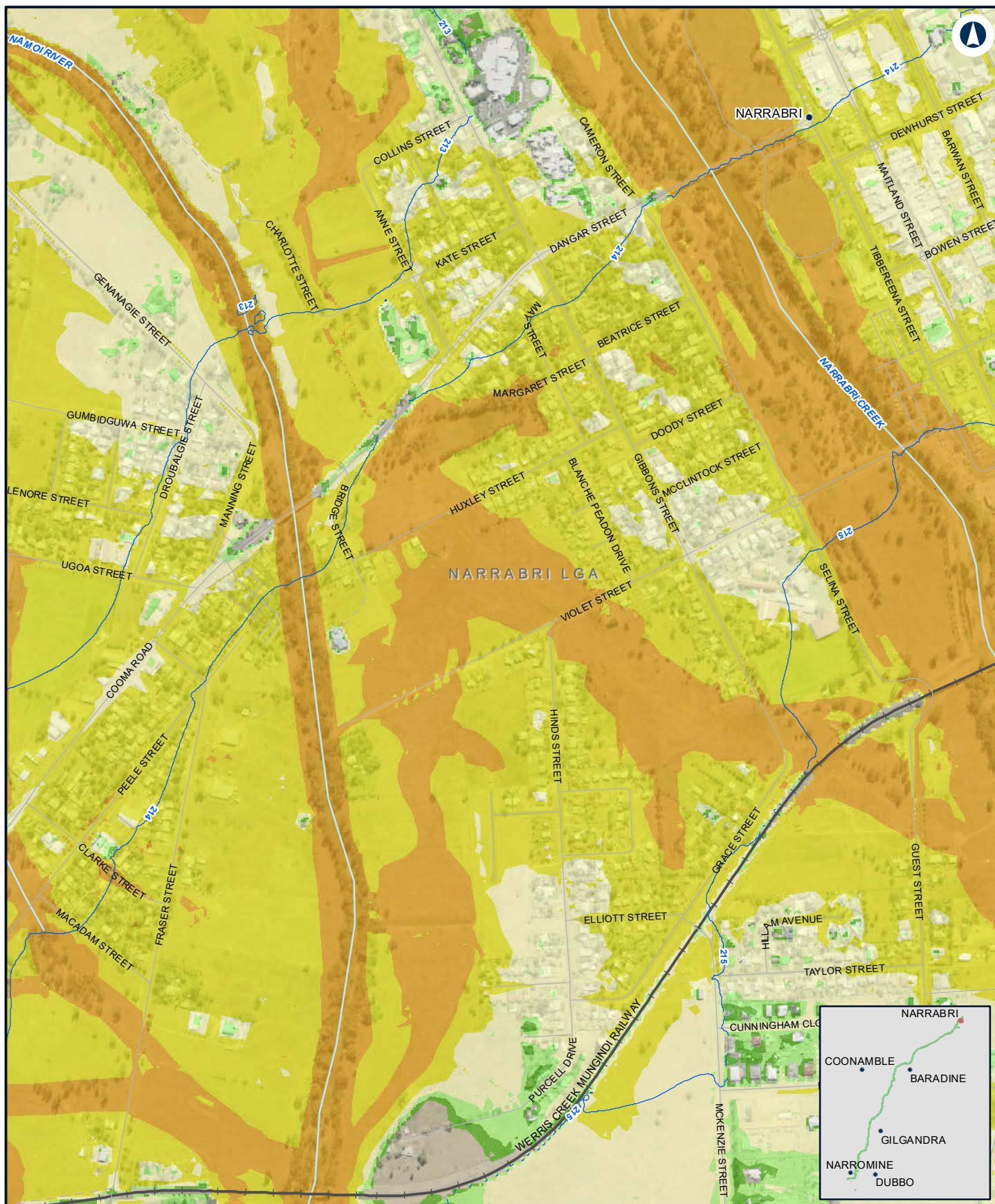
Date: 8/08/2022
 Author: JacobsGHD
 Data Sources: Basemap layers: NSWSS;

LEGEND

- Flood level (mAHD)
- Flood depth**
 - 0.0m - 0.25m
 - 0.25m - 0.5m
 - 0.5m - 1.0m
 - 1.0m - 2.0m
 - > 2.0m



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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - Detail - 1% AEP - Narrabri

Appendix H - Figure 2.1h

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022
Author: JacobsGHD
Data Sources: Basemap layers: NSWSS;

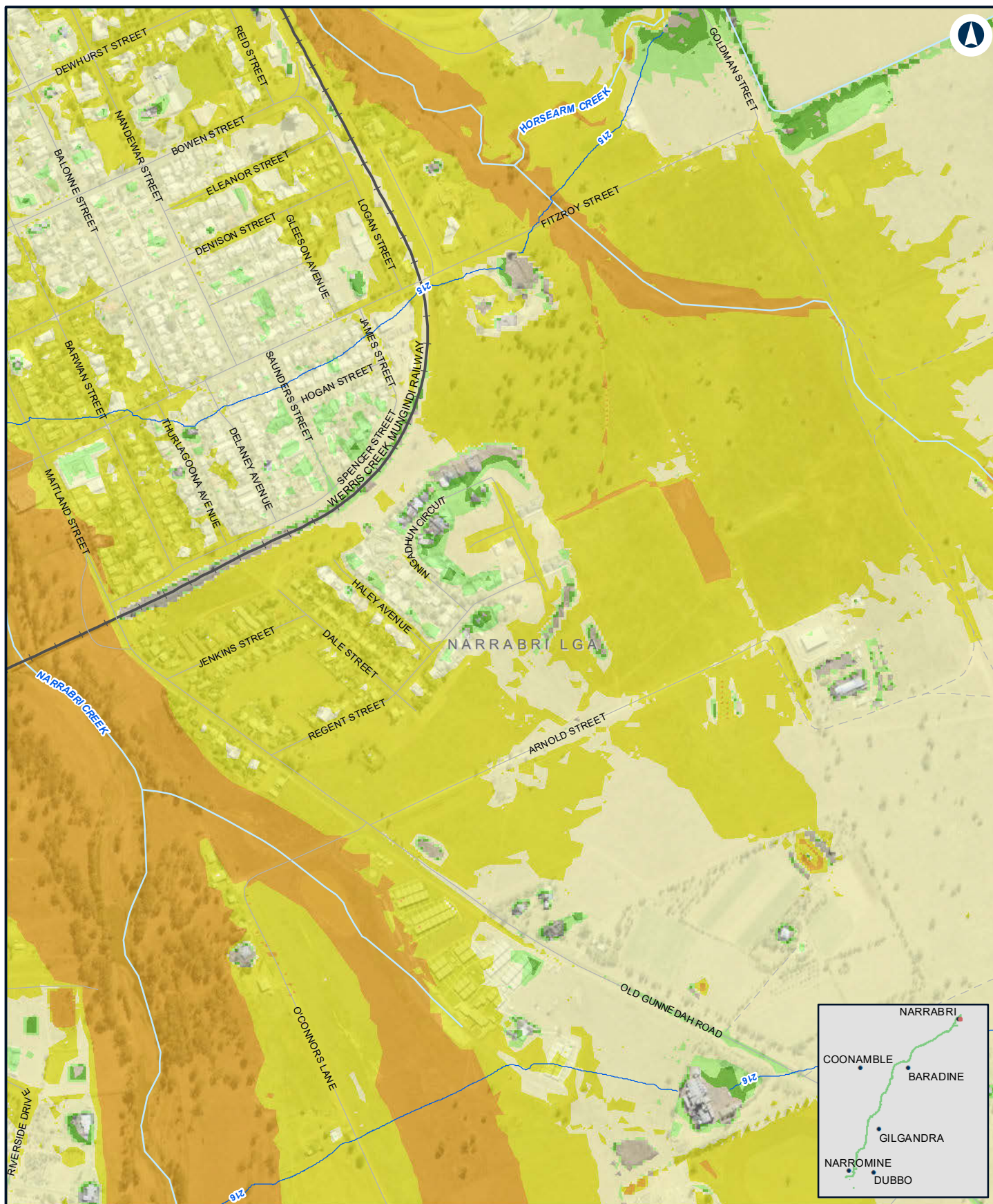
Paper: A4
Scale: 1:10,000

LEGEND

Flood level (mAHD)	Flood depth
	0.0m - 0.25m
	0.25m - 0.5m
	0.5m - 1.0m
	1.0m - 2.0m
	> 2.0m

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - Detail - 1% AEP - Narrabri

Appendix H - Figure 2.1i

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022
Author: JacobsGHD
Data Sources: Basemap layers: NSWSS;

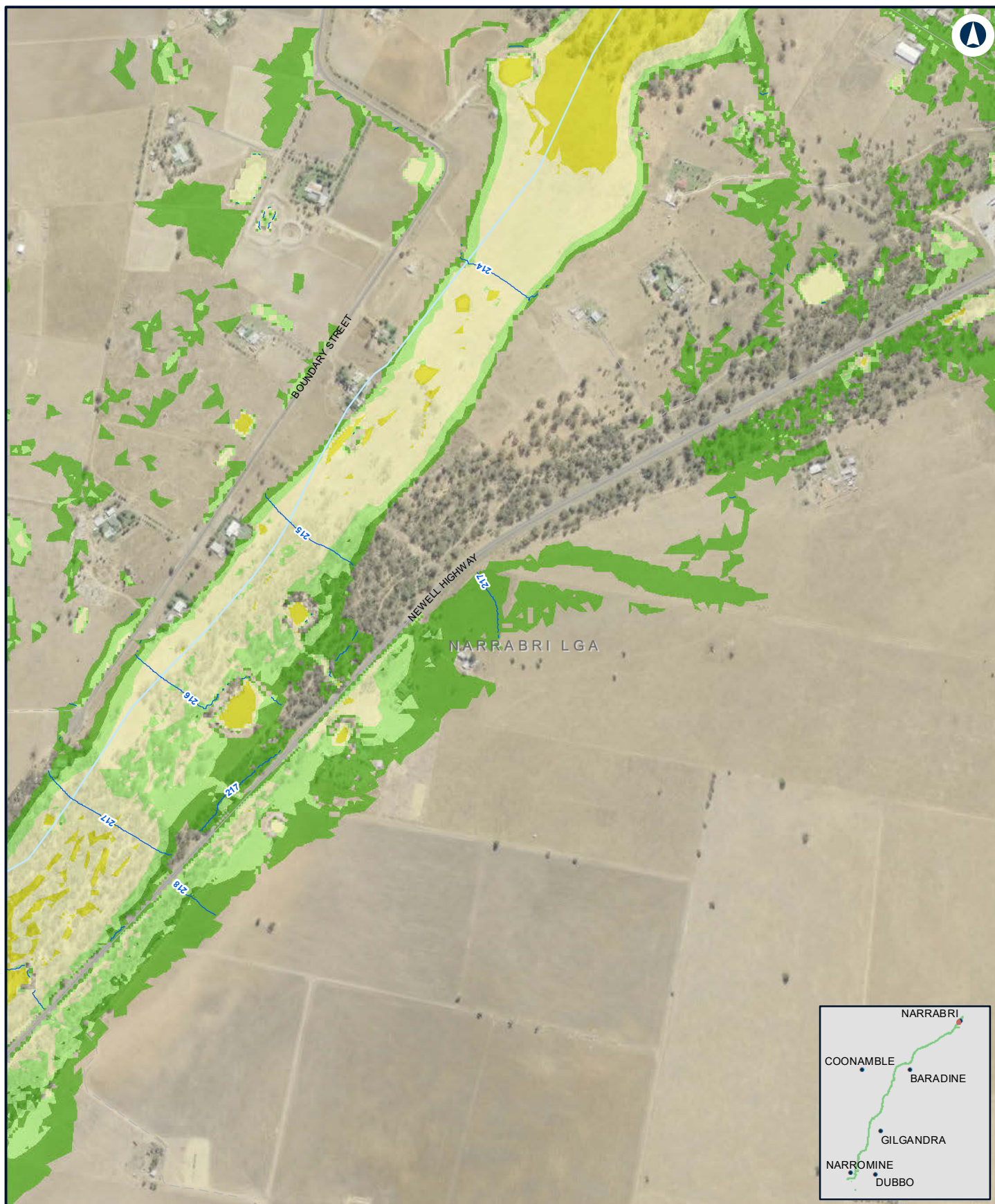
Paper: A4
Scale: 1:10,000

LEGEND

	Flood level (mAHD)	Flood depth
		0.0m - 0.25m
		0.25m - 0.5m
		0.5m - 1.0m
		1.0m - 2.0m
		> 2.0m

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - Detail - 1% AEP - Narrabri

Appendix H - Figure 2.1j

0 0.1 0.2
Km

LEGEND

— Flood level (mAHD) Flood depth

0.0m - 0.25m
0.25m - 0.5m
0.5m - 1.0m
1.0m - 2.0m

Coordinate System: GDA 1994 MGA Zone 55

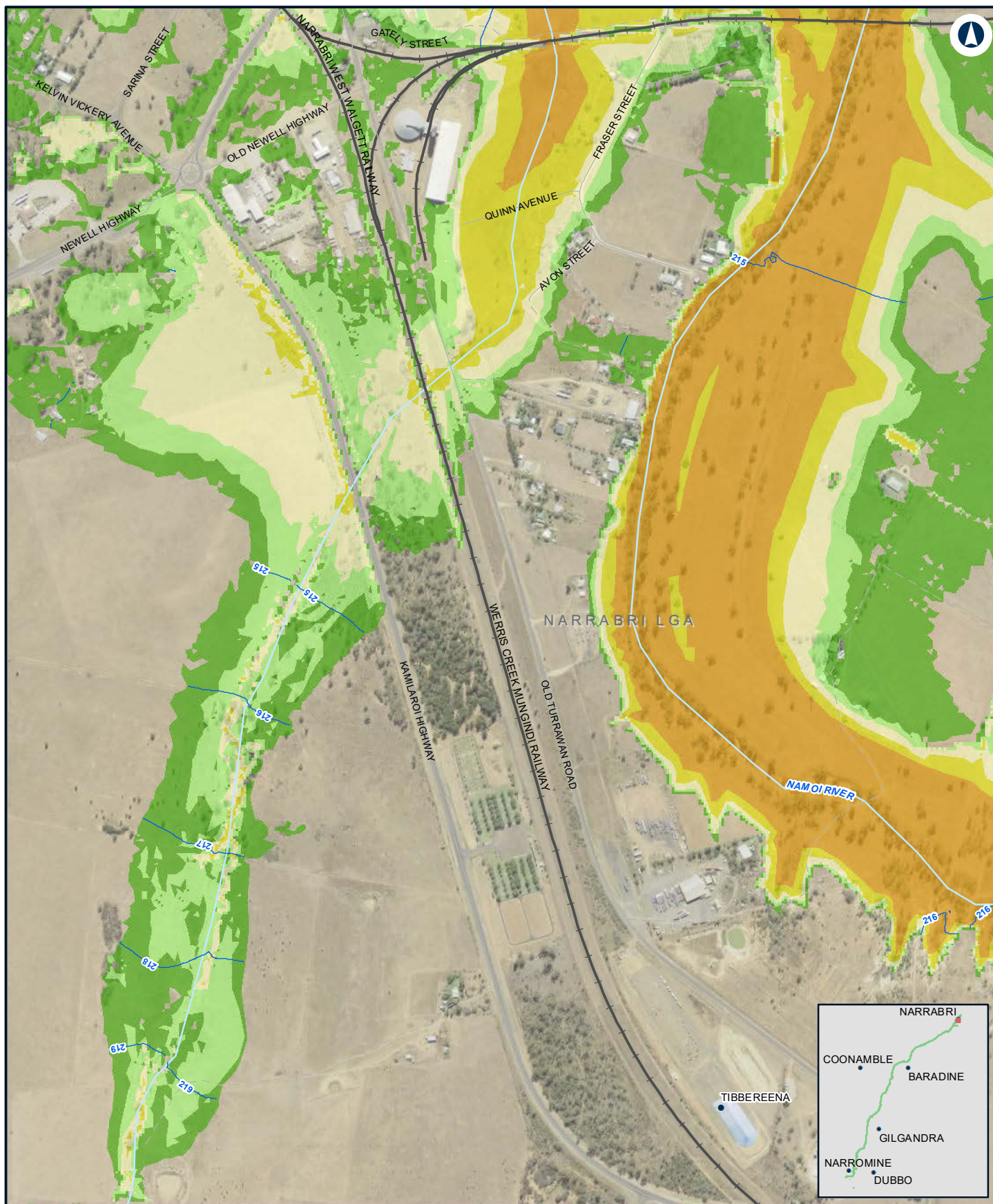
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Date: 8/08/2022 Paper: A4
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS;

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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - Detail - 1% AEP - Narrabri

Appendix H - Figure 2.1k

0 0.1 0.2
Km

LEGEND

— Flood level (mAHD)

Flood depth

- 0.0m - 0.25m
- 0.25m - 0.5m
- 0.5m - 1.0m
- 1.0m - 2.0m
- > 2.0m

Coordinate System: GDA 1994 MGA Zone 55

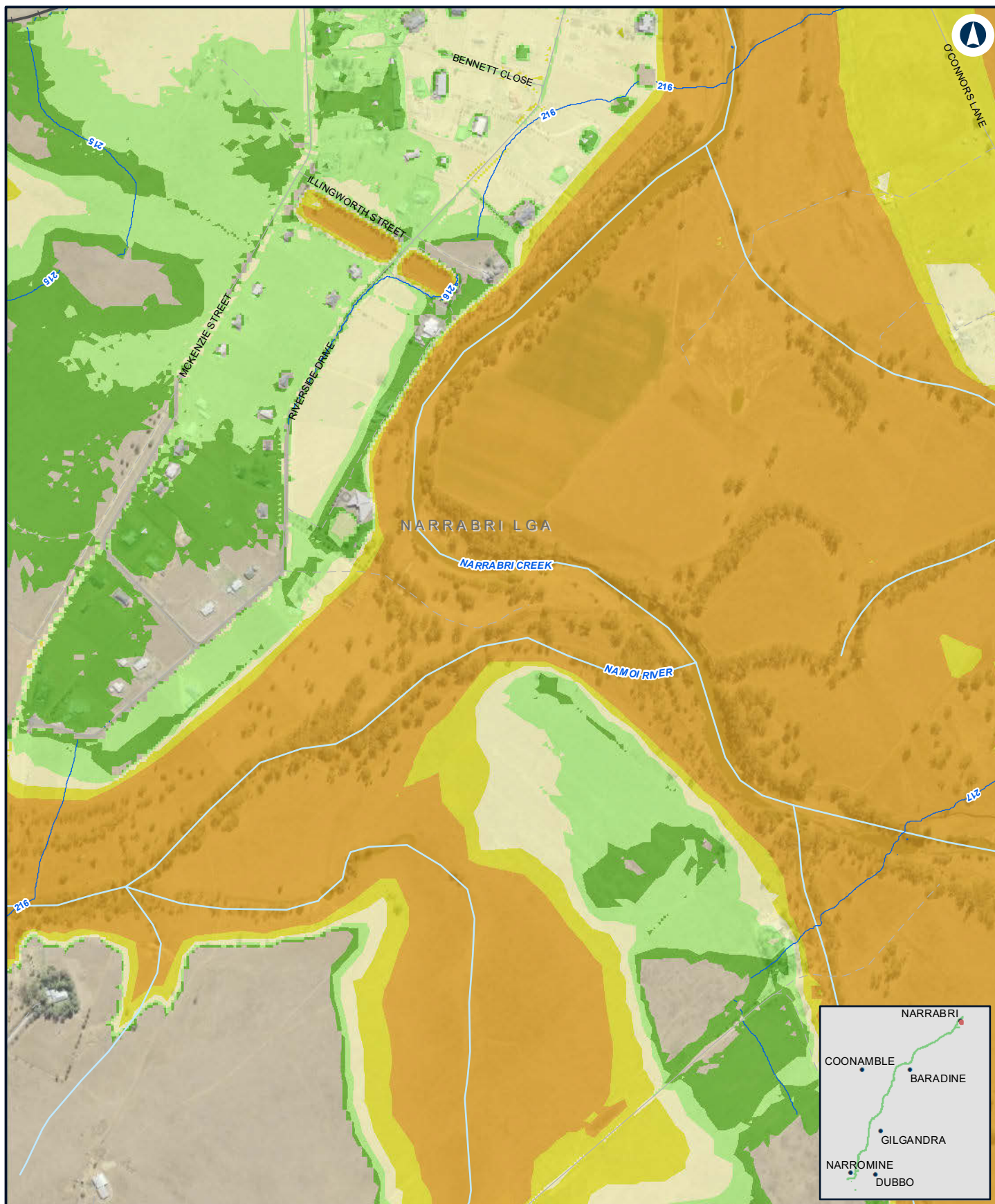
ARTC makes no representation or warranty and assumes no duty of care or other responsibility to any party as to the completeness, accuracy or suitability of the information contained in this GIS map. The GIS map has been prepared from material provided to ARTC by an external source and ARTC has not taken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

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Date: 8/08/2022 Paper: A4
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS;

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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - Detail - 1% AEP - Narrabri

Appendix H - Figure 2.11

0 0.1 0.2
Km

LEGEND

— Flood level (mAHD)

Flood depth

- 0.0m - 0.25m
- 0.25m - 0.5m
- 0.5m - 1.0m
- 1.0m - 2.0m
- > 2.0m

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

Data Sources: Basemap layers: NSWSS;

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narrabri

Appendix H - Figure 2.2a

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:10,000

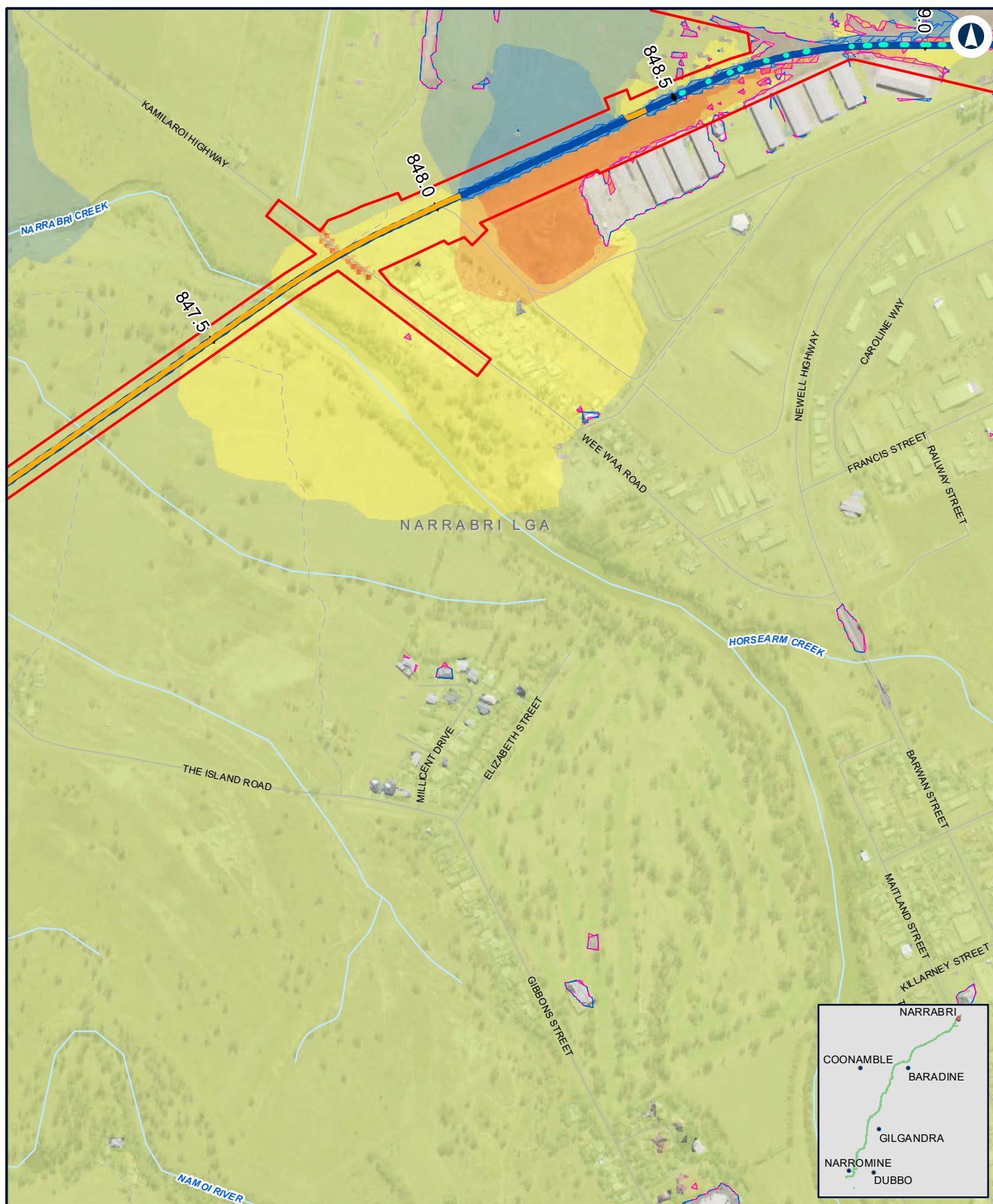
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

	Culvert		0.05 m - 0.1 m increase
	Alignment		0.1 m - 0.2 m increase
	The proposal site		0.2 m - 0.5 m increase
Afflux			Was dry now wet
	0.01 m - 0.2 m decrease		Was wet now dry
	0 m - 0.01 m decrease		
	0 m - 0.01 m increase		
	0.01 m - 0.05 m increase		

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narrabri

Appendix H - Figure 2.2b

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

Bridge

Culvert

Alignment

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

Was dry now wet

Was wet now dry

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NARRABRI TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narrabri

Appendix H - Figure 2.2c

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

Culvert

Alignment

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

Was dry now wet

Was wet now dry

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1 % AEP - Narrabri

Appendix H - Figure 2.2d

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

Afflux

0.01 m - 0.2 m decrease

0 m - 0.01 m decrease

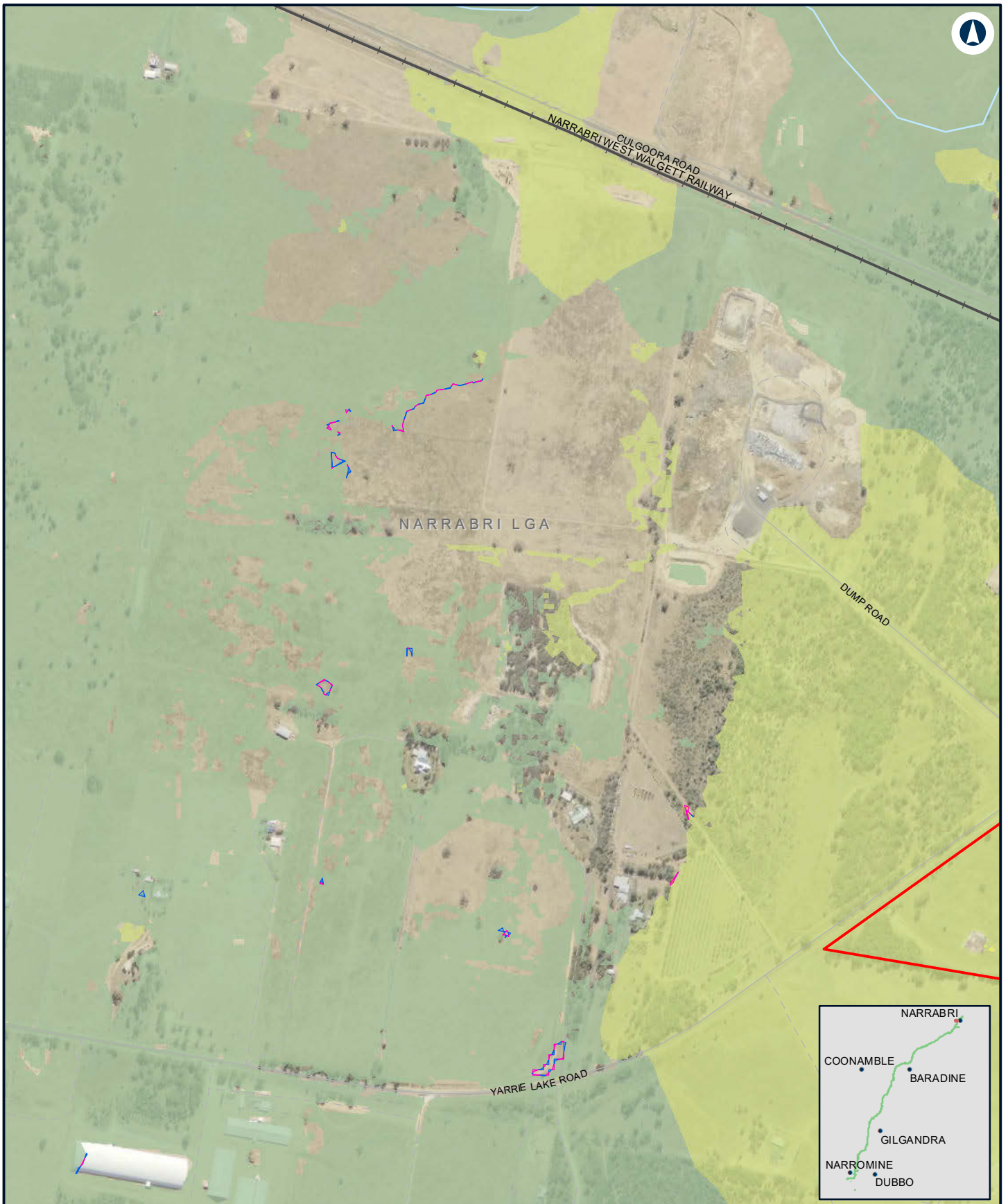
Was dry now wet

Was wet now dry

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NARRABRI TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narrabri

Appendix H - Figure 2.2e

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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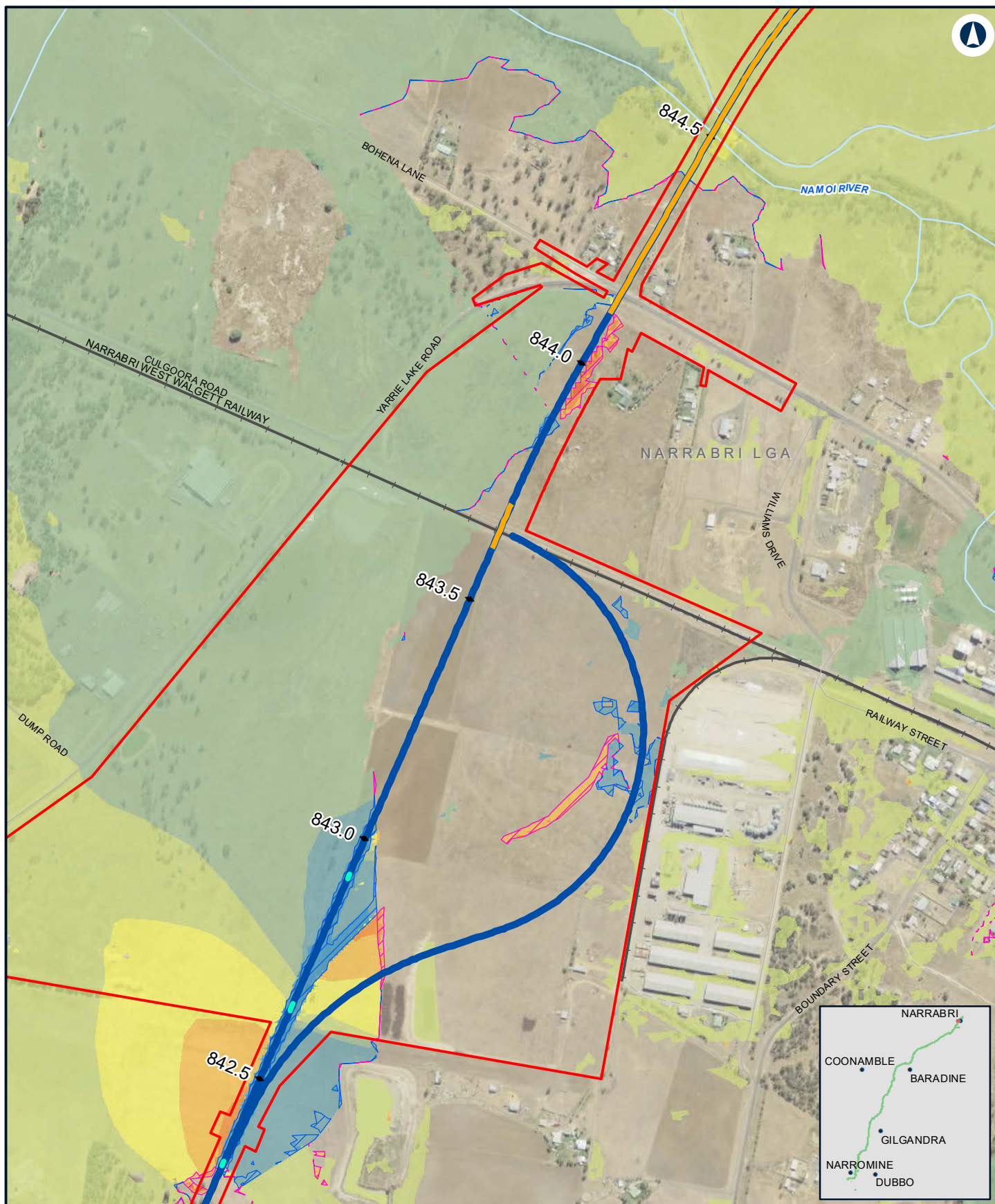
Date: 8/08/2022 Paper: A4
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
 - Was dry now wet
 - Was wet now dry
- Afflux**
- 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

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narrabri

Appendix H - Figure 2.2f

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:10,000

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

LEGEND

Bridge

Culvert

Alignment

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

Was dry now wet

Was wet now dry

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narrabri

Appendix H - Figure 2.2g

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022 Paper: A4
Author: JacobsGHD Scale: 1:10,000

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

LEGEND

Afflux

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

- Was dry now wet
- Was wet now dry

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narrabri

Appendix H - Figure 2.2h

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

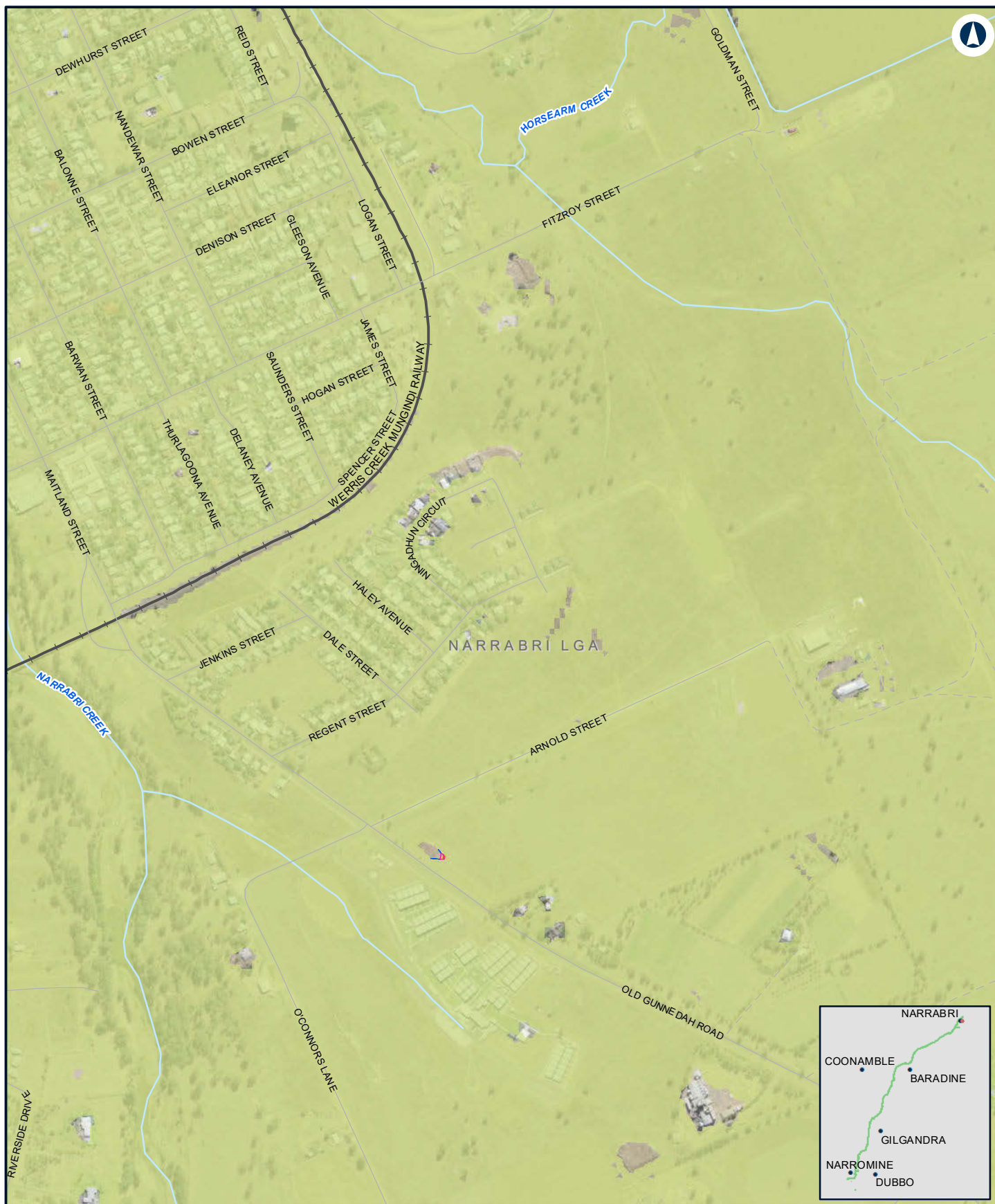
LEGEND

Afflux

- 0 m - 0.01 m decrease
- 0 m - 0.01 m increase
- 0.05 m - 0.1 m increase
- 0.1 m - 0.2 m increase
- 0.2 m - 0.5 m increase
- Was dry now wet
- Was wet now dry

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narrabri

Appendix H - Figure 2.2i

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

Afflux

- 0 m - 0.01 m decrease
- 0 m - 0.01 m increase
- 0.05 m - 0.1 m increase
- 0.2 m - 0.5 m increase
- Was dry now wet
- Was wet now dry

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narrabri

Appendix H - Figure 2.2j

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:10,000

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

LEGEND

Afflux

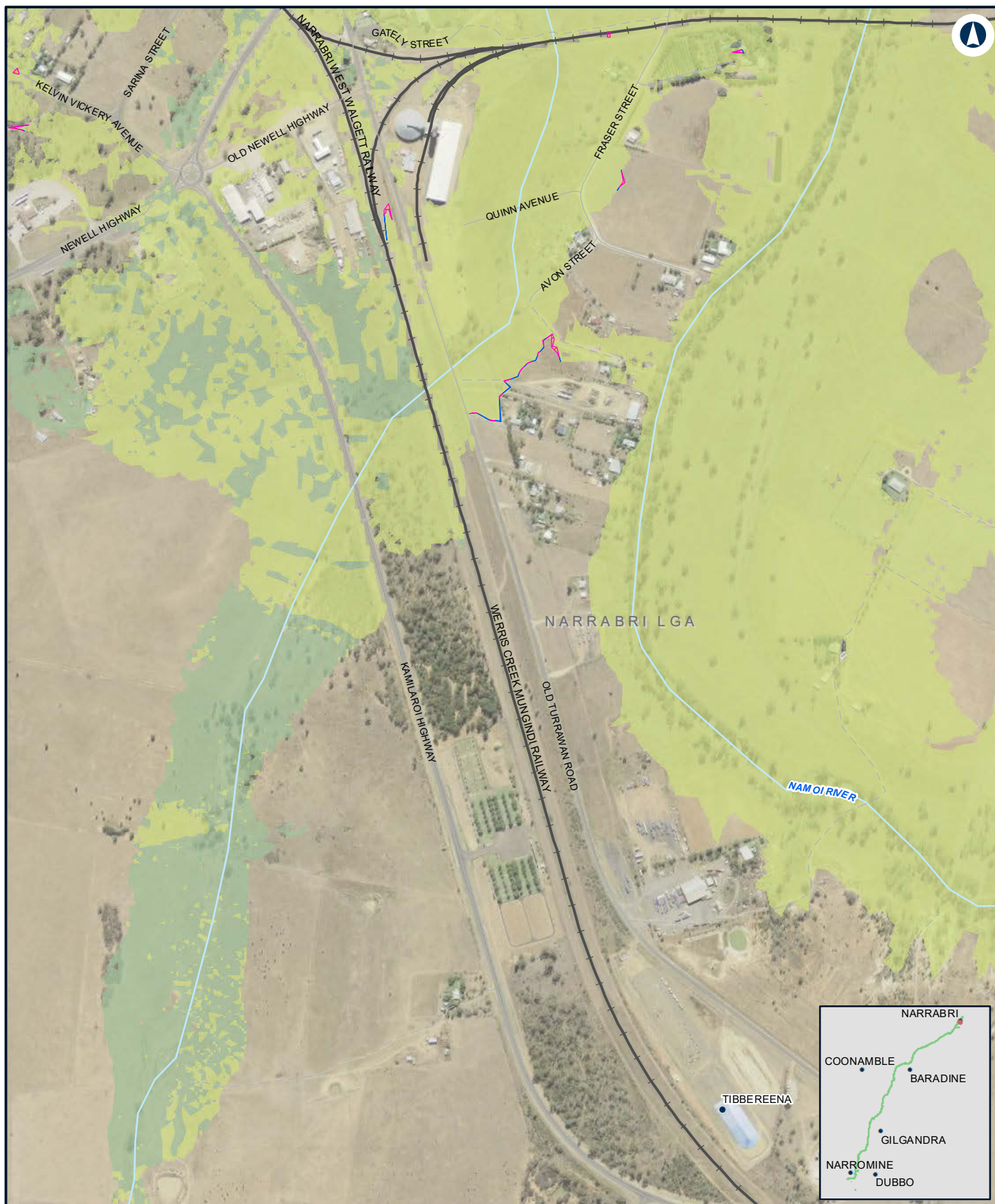
- 0.01 m - 0.2 m decrease
- 0 m - 0.01 m decrease
- 0 m - 0.01 m increase
- 0.01 m - 0.05 m increase
- 0.05 m - 0.1 m increase
- 0.1 m - 0.2 m increase
- 0.2 m - 0.5 m increase

- > 0.5 m increase
- Was dry now wet
- Was wet now dry

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narrabri

Appendix H - Figure 2.2k

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

Afflux

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

Was dry now wet

Was wet now dry

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narrabri

Appendix H - Figure 2.21

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

Afflux

0 m - 0.01 m decrease

0 m - 0.01 m increase

Was dry now wet

Was wet now dry

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP with Blockage - Narrabri

Appendix H - Figure 2.3a

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

Culvert

Alignment

The proposal

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

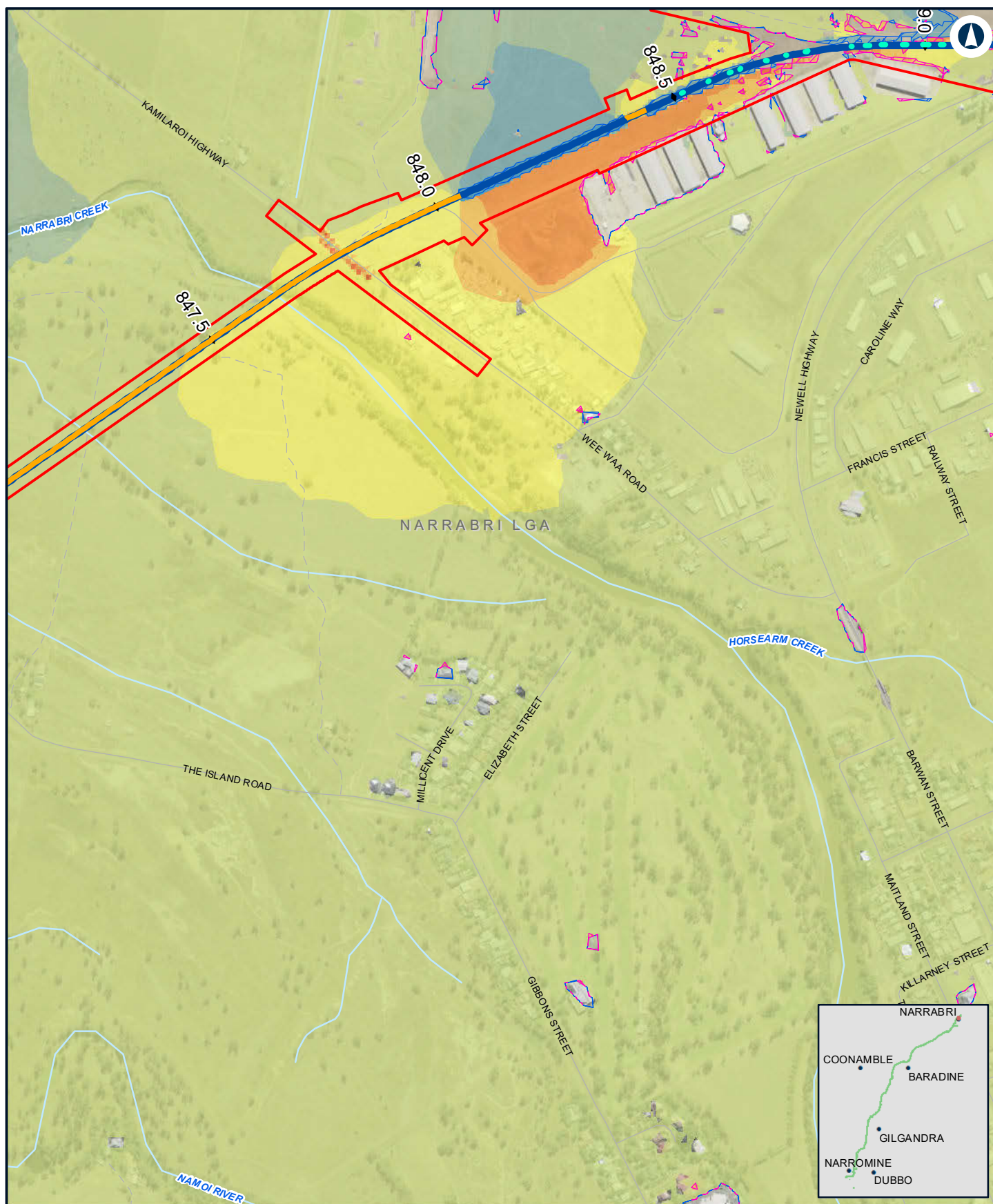
Was dry now wet

Was wet now dry

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP with Blockage - Narrabri

Appendix H - Figure 2.3b

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

Bridge

Culvert

Alignment

The proposal

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

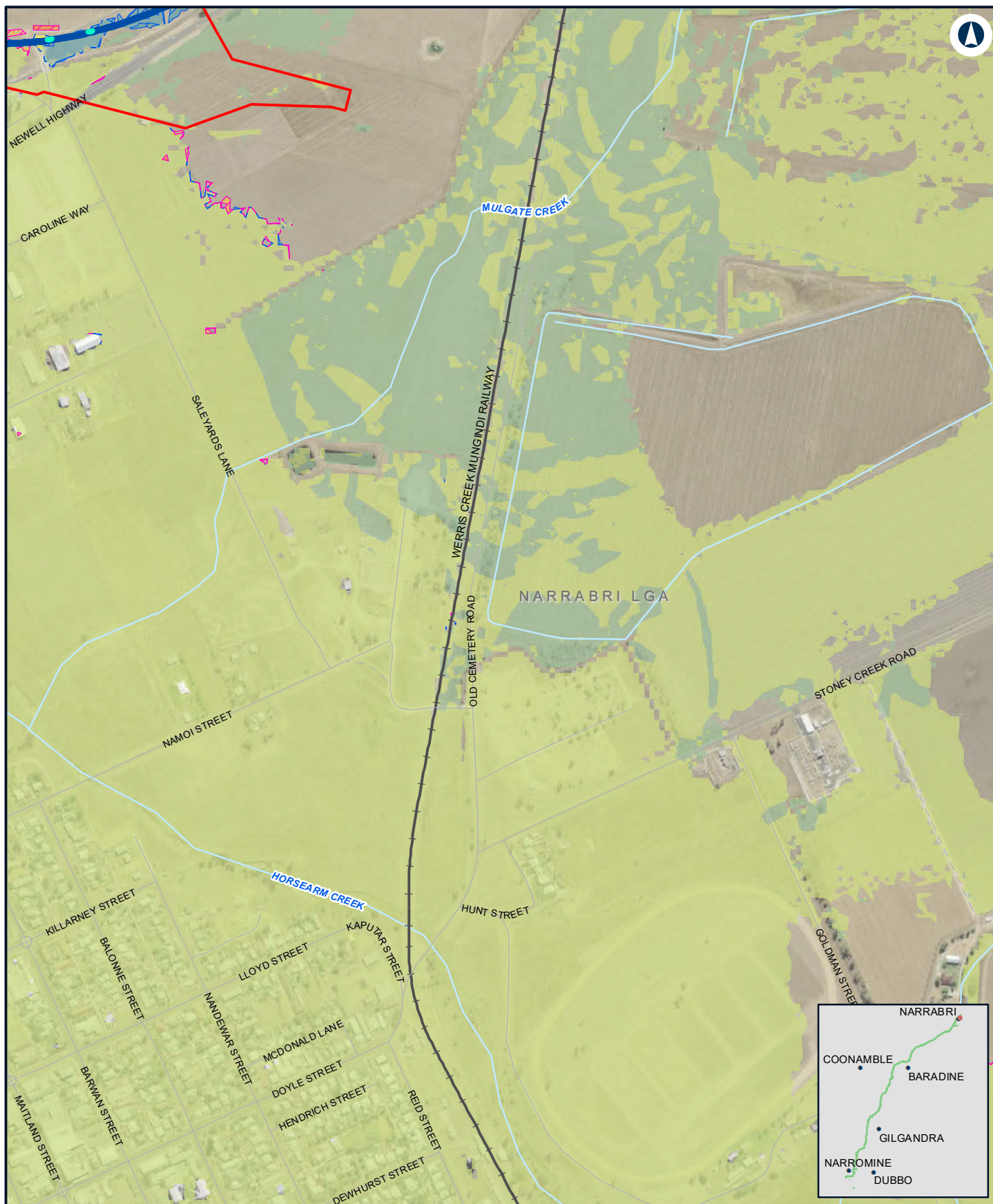
Was dry now wet

Was wet now dry

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP with Blockage - Narrabri

Appendix H - Figure 2.3c

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:10,000

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

LEGEND

Culvert

Alignment

The proposal

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

Was dry now wet

Was wet now dry

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP with Blockage - Narrabri

Appendix H - Figure 2.3d

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

Afflux

0.01 m - 0.2 m decrease

0 m - 0.01 m decrease

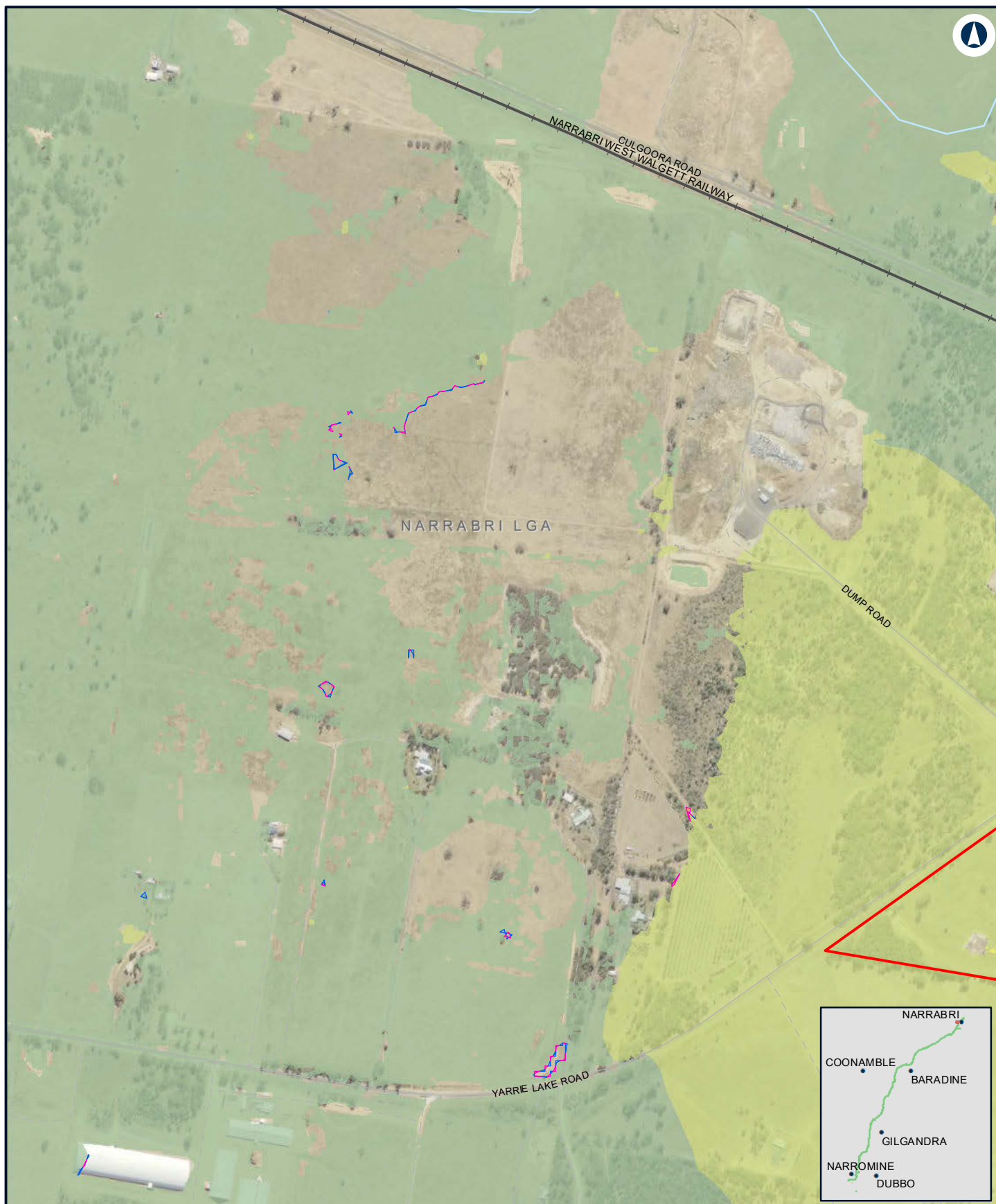
Was dry now wet

Was wet now dry

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP with Blockage - Narrabri

Appendix H - Figure 2.3e

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

 The proposal

Afflux

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

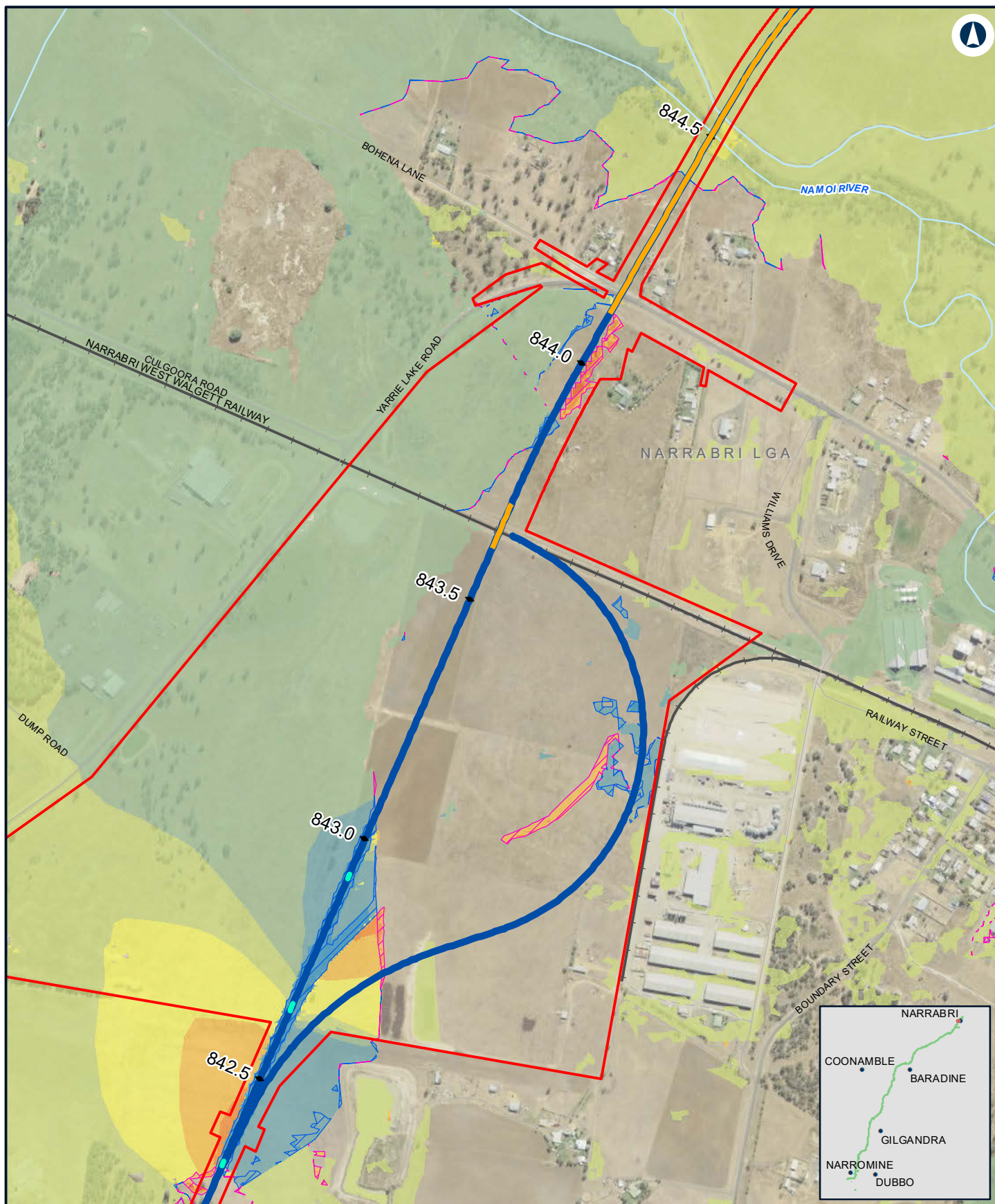
 Was dry now wet

 Was wet now dry

**INLAND
RAIL**

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP with Blockage - Narrabri

Appendix H - Figure 2.3f

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:10,000

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

LEGEND

Bridge

Culvert

Alignment

The proposal

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

Was dry now wet

Was wet now dry

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP with Blockage - Narrabri

Appendix H - Figure 2.3g

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022 Paper: A4
Author: JacobsGHD Scale: 1:10,000

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

LEGEND

Afflux

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

- Was dry now wet
- Was wet now dry

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP with Blockage - Narrabri

Appendix H - Figure 2.3h

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

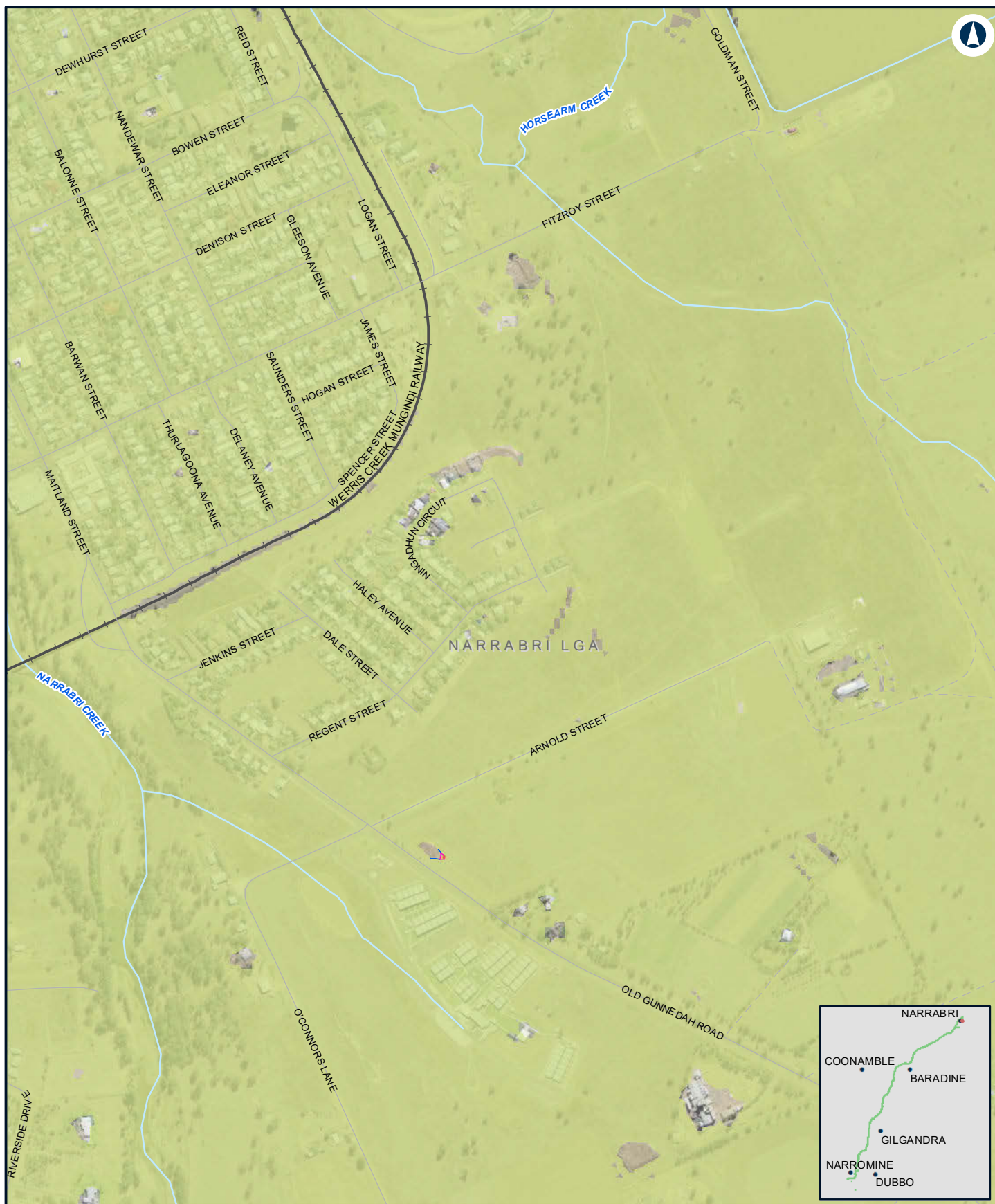
LEGEND

Afflux

- 0 m - 0.01 m decrease
- 0 m - 0.01 m increase
- 0.05 m - 0.1 m increase
- 0.1 m - 0.2 m increase
- 0.2 m - 0.5 m increase
- Was dry now wet
- Was wet now dry

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP with Blockage - Narrabri

Appendix H - Figure 2.3i

0 0.1 0.2
Km

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Date: 8/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

Afflux

- 0 m - 0.01 m decrease
- 0 m - 0.01 m increase
- 0.05 m - 0.1 m increase
- 0.2 m - 0.5 m increase
- Was dry now wet
- Was wet now dry

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP with Blockage - Narrabri

Appendix H - Figure 2.3j

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:10,000

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

LEGEND

Afflux

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

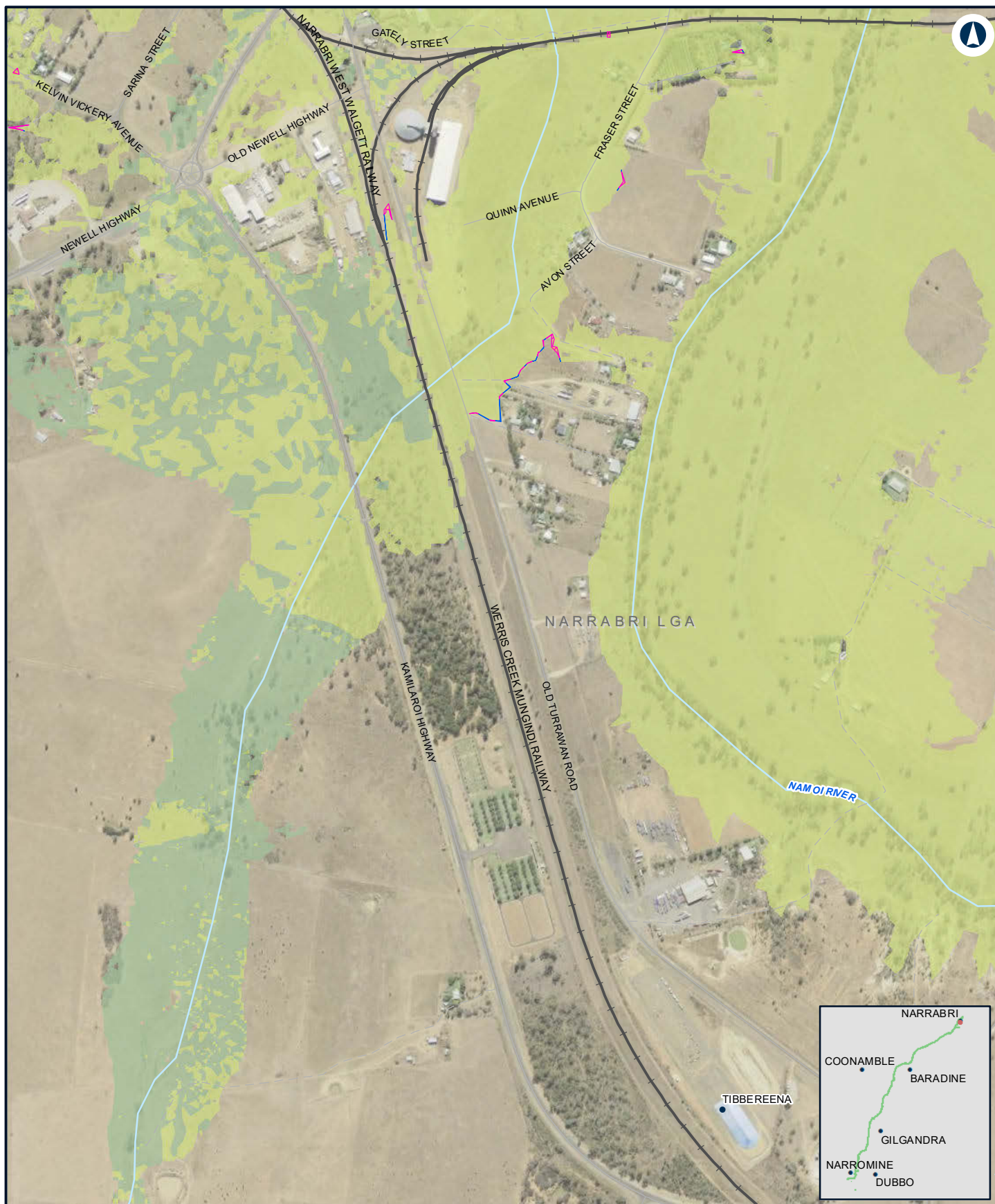
Was dry now wet

Was wet now dry

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP with Blockage - Narrabri

Appendix H - Figure 2.3k

0 0.1 0.2
Km

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Date: 8/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

Afflux

- 0 m - 0.01 m decrease
- 0 m - 0.01 m increase
- 0.05 m - 0.1 m increase
- 0.1 m - 0.2 m increase
- Was dry now wet
- Was wet now dry

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP with Blockage - Narrabri

Appendix H - Figure 2.3I

0 0.1 0.2
Km

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LEGEND

Afflux

0 m - 0.01 m decrease

0 m - 0.01 m increase

Was dry now wet

Was wet now dry

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