

TECHNICAL REPORT 03

Updated flooding and hydrology assessment

Appendix N Assessment of local and regional flooding at Narrabri

(Part 23 of 25)

NARROMINE TO NARRABRI PROJECT



TECHNICAL REPORT 03

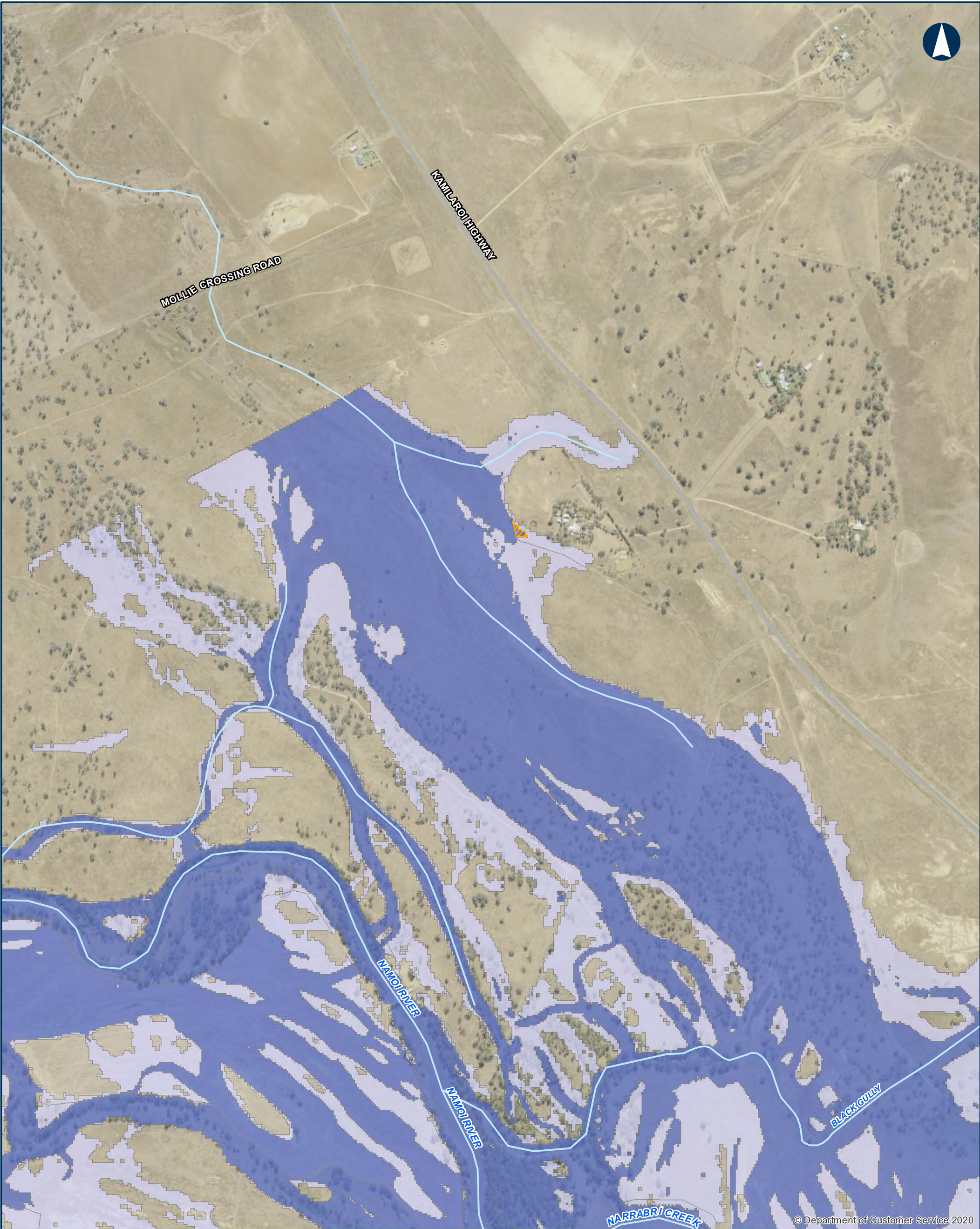
Updated flooding and hydrology assessment

Appendix B QDL compliance

Appendix B6 Narrabri regional QDL compliance (hazard)

NARROMINE TO NARRABRI PROJECT





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NARROMINE TO NARRABRI QDL departures - Hazard - 20% AEP - Narrabri Regional Appendix B - Figure 3.5.1

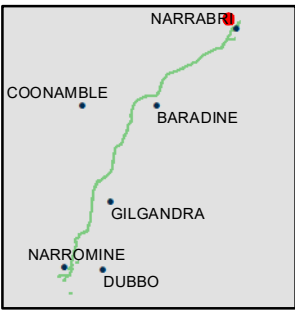
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Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Primary road
 - Local road
 - Watercourse
- Area of departure**
- Buildings and sealed surfaces, vd change >10%
- Percentage Change in dv**
- 0% - 10%
 - 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 20% AEP - Narrabri Regional

Appendix B - Figure 3.5.2

0200400Metres

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Date: 10/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

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

Primary road

Sub arterial road

Watercourse

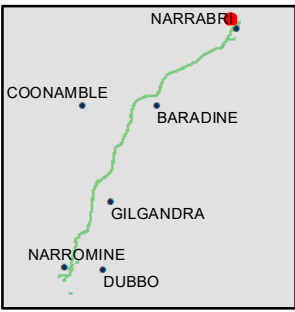
Area of departure

Buildings and sealed surfaces, vd change >10%

Percentage Change in dv

0% - 10%

10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 20% AEP - Narrabri Regional

Appendix B - Figure 3.5.3

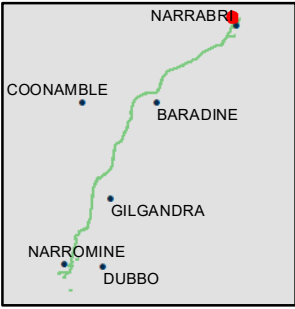
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Coordinate System: GDA 1994 MGA Zone 55

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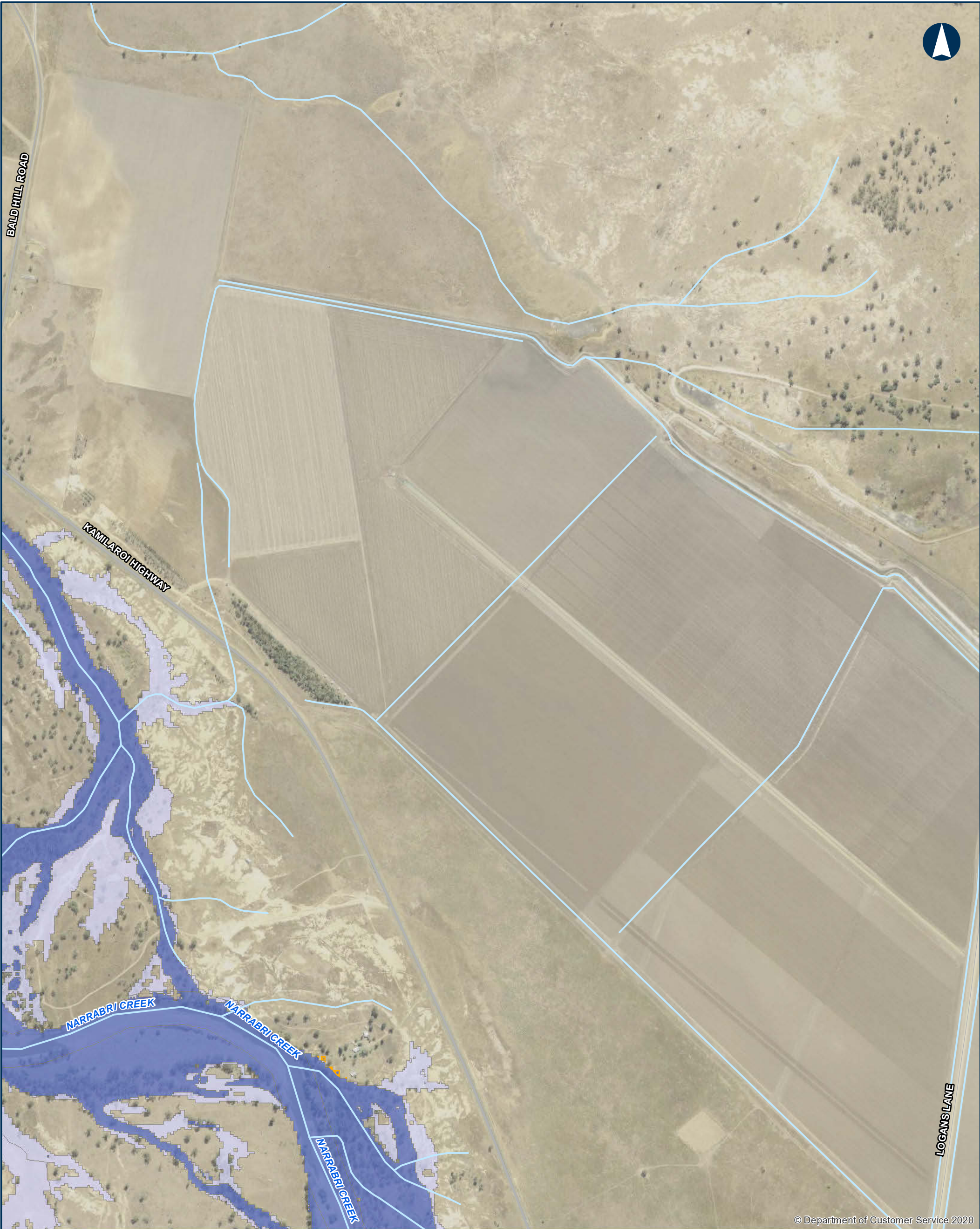
Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Primary road
 - Sub arterial road
 - Local road
 - Watercourse
- Percentage Change in dv
- 0% - 10%
 - 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 20% AEP - Narrabri Regional

Appendix B - Figure 3.5.4

0200400

Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

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

- Primary road

Sub arterial road

Local road

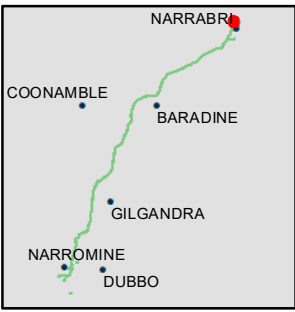
Watercourse
- Area of departure

Buildings and sealed surfaces, vd change >10%

Percentage Change in dv

0% - 10%

10% - 20%



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NARROMINE TO NARRABRI QDL departures - Hazard - 20% AEP - Narrabri Regional Appendix B - Figure 3.5.5

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

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

Bridge

Culvert

Alignment

Primary road

Local road

Watercourse

The proposal

Rail Corridor

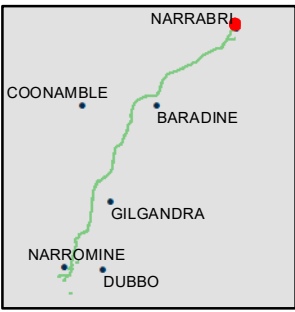
Area of departure

Buildings and sealed surfaces, vd change >10%

Percentage Change in dv

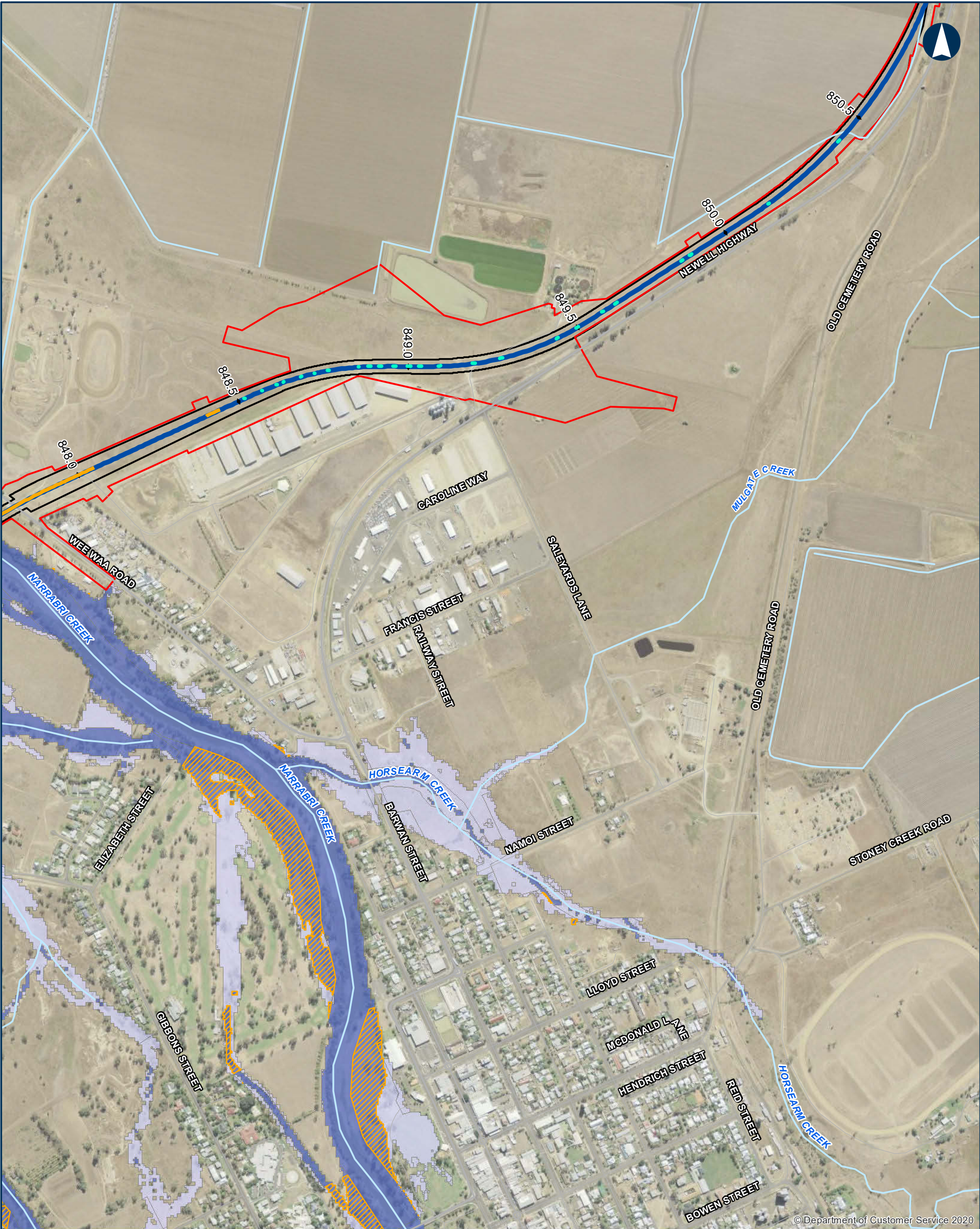
0% - 10%

10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 20% AEP - Narrabri Regional

Appendix B - Figure 3.5.6

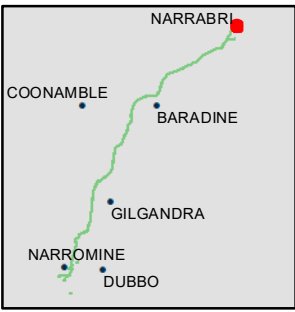
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Bridge
 - Culvert
 - Alignment
 - Primary road
 - Sub arterial road
 - Local road
 - Watercourse
 - The proposal
- Rail Corridor
- Area of departure
- Buildings and sealed surfaces, vd change >10%
 - 0% - 10%
 - 10% - 20%
- Percentage Change in dv



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NARROMINE TO NARRABRI

QDL departures - Hazard - 20% AEP - Narrabri Regional

Appendix B - Figure 3.5.7

0 200 400 Metres

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Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Sub arterial road

Local road

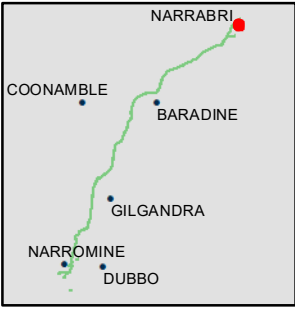
Watercourse
- Area of departure

Buildings and sealed surfaces, vd change >10%

Percentage Change in dv

0% - 10%

10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 20% AEP - Narrabri Regional

Appendix B - Figure 3.5.8

0200400

Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A3

Author: JacobsGHD

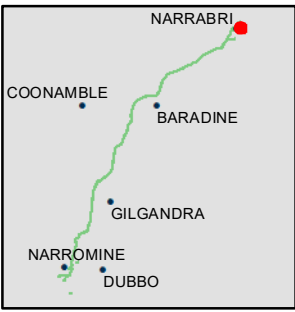
Scale: 1:10,000

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

Sub arterial road

Local road

Watercourse



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NARROMINE TO NARRABRI

QDL departures - Hazard - 20% AEP - Narrabri Regional

Appendix B - Figure 3.5.9

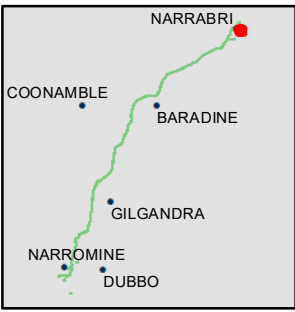
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Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Sub arterial road
 - Local road
 - Watercourse
- Percentage Change in dv
- 0% - 10%
 - 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 20% AEP - Narrabri Regional

Appendix B - Figure 3.5.10

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

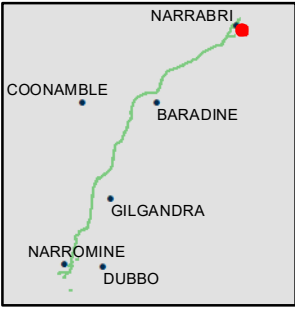
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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

Sub arterial road
Local road
Watercourse

Percentage Change in dv

0% - 10%
10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 20% AEP - Narrabri Regional

Appendix B - Figure 3.5.11

0200400

Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

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

Sub arterial road

Local road

Watercourse

Percentage Change in dv

0% - 10%

10% - 20%

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NARROMINE TO NARRABRI

QDL departures - Hazard - 20% AEP - Narrabri Regional

Appendix B - Figure 3.5.12

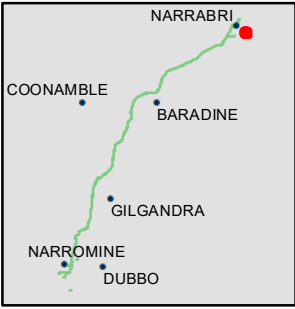
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

Sub arterial road
Watercourse
Percentage Change in dv
0% - 10%
10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 20% AEP - Narrabri Regional

Appendix B - Figure 3.5.13

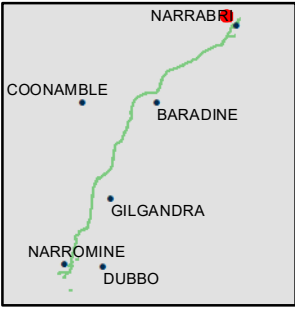
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Coordinate System: GDA 1994 MGA Zone 55

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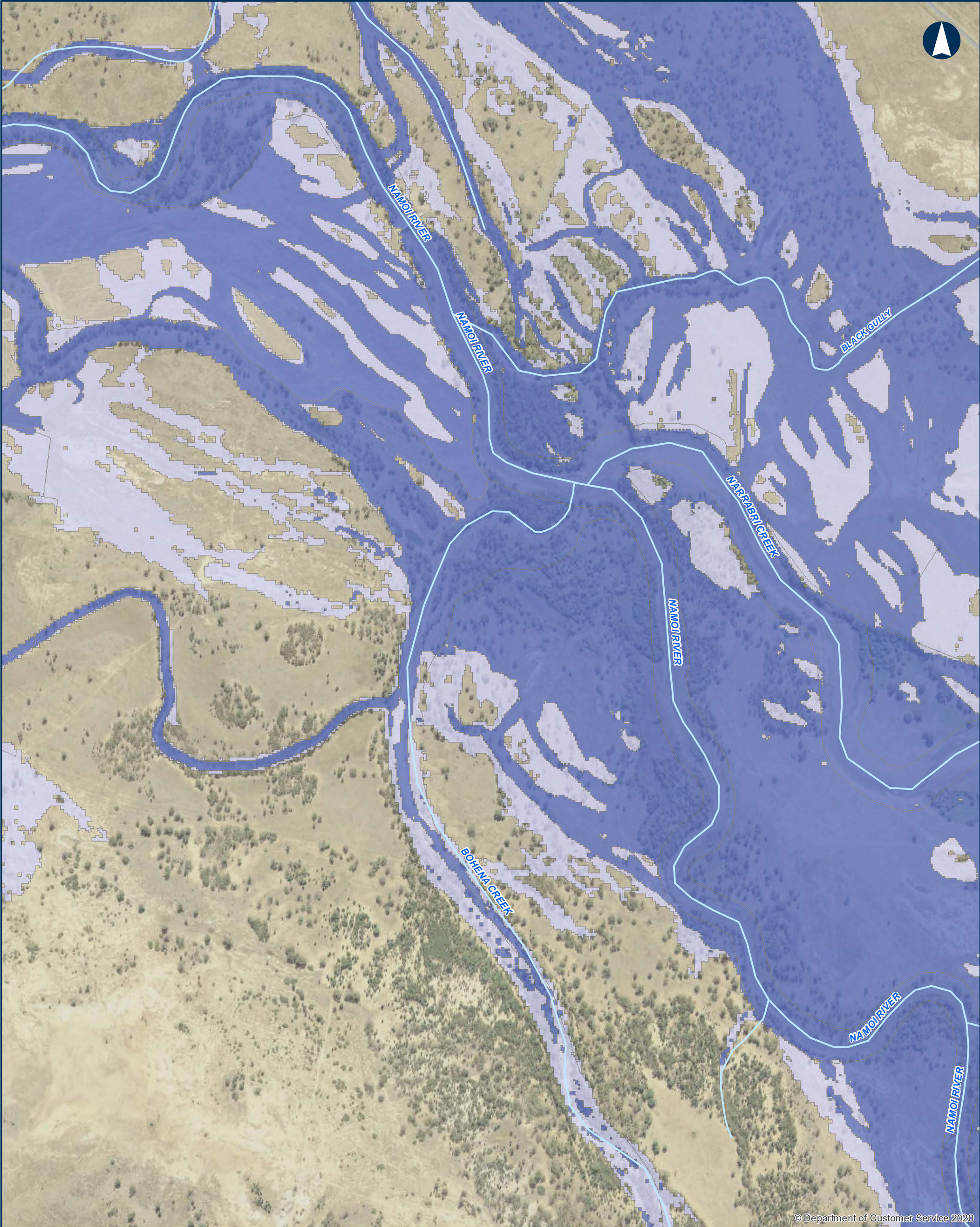
Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

Local road
Watercourse
Percentage Change in dv
0% - 10%
10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 20% AEP - Narrabri Regional

Appendix B - Figure 3.5.14

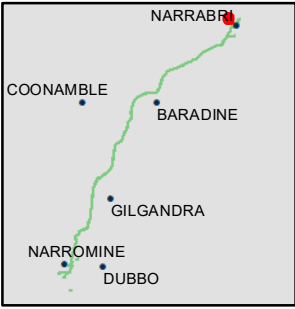
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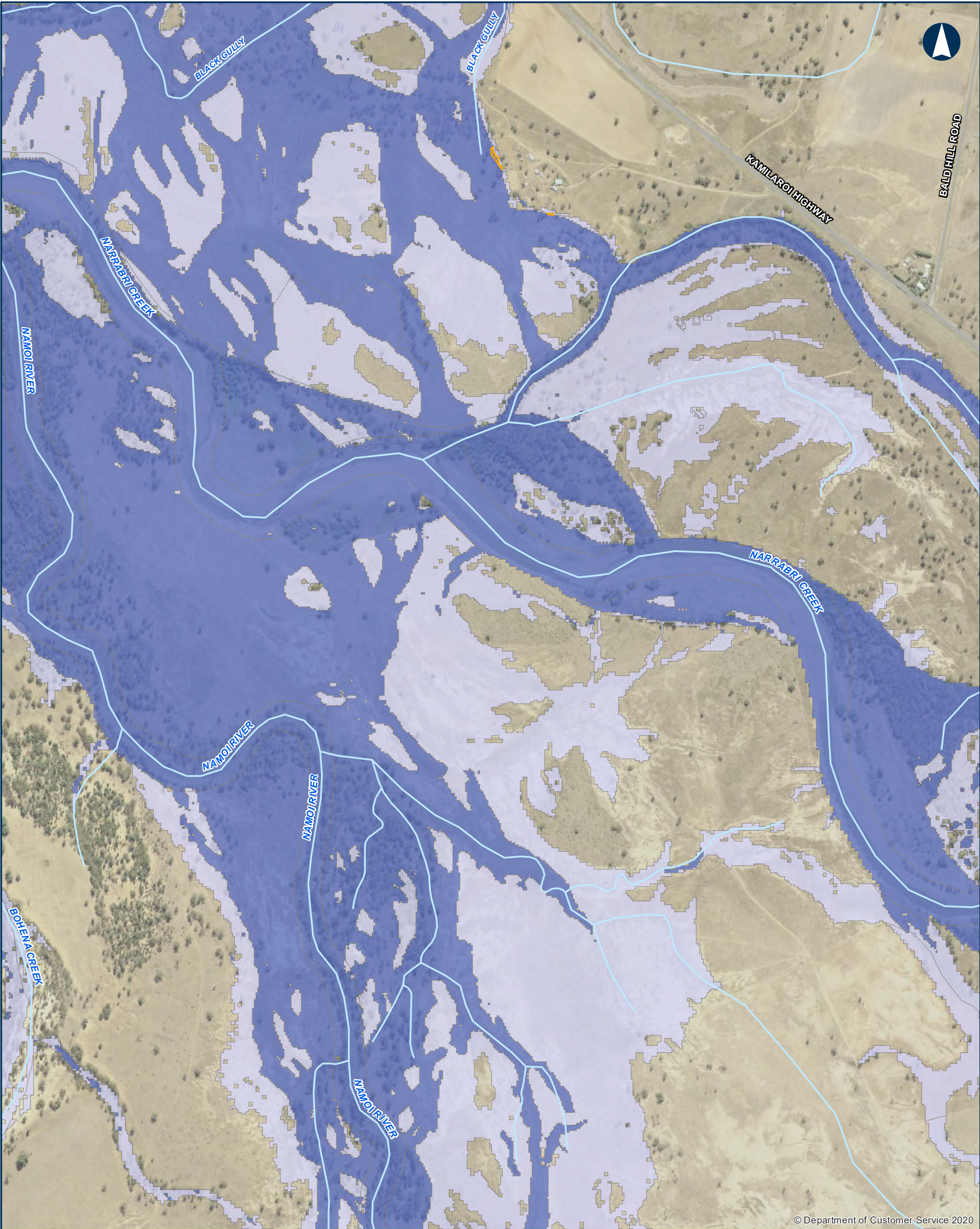
Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Primary road
- Watercourse
- Percentage Change in dv
 - 0% - 10%
 - 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 20% AEP - Narrabri Regional

Appendix B - Figure 3.5.15

0200400

Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

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

- Primary road

Sub arterial road

Local road

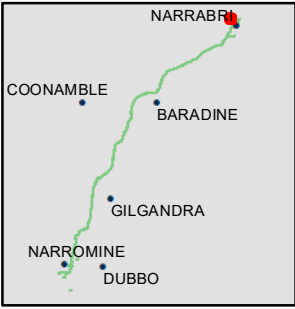
Watercourse
- Area of departure

Buildings and sealed surfaces, vd change >10%

Percentage Change in dv

0% - 10%

10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 20% AEP - Narrabri Regional

Appendix B - Figure 3.5.16

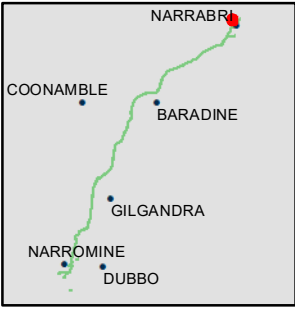
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Primary road
Sub arterial road
Local road
Watercourse
- Area of departure**
Buildings and sealed surfaces, vd change >10%
- Percentage Change in dv**
0% - 10%
10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 20% AEP - Narrabri Regional

Appendix B - Figure 3.5.17

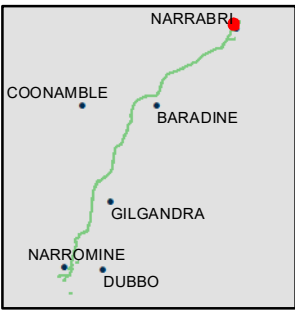
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Bridge
 - Alignment
 - Primary road
 - Local road
 - Watercourse
 - The proposal
- Area of departure**
- Buildings and sealed surfaces, vd change >10%
 - Percentage Change in dv
 - 0% - 10%
 - 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 20% AEP - Narrabri Regional

Appendix B - Figure 3.5.18

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022Paper: A3

Author: JacobsGHDScale: 1:10,000

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

Bridge

Culvert

Alignment

Primary road

Local road

Watercourse

The proposal

Rail Corridor

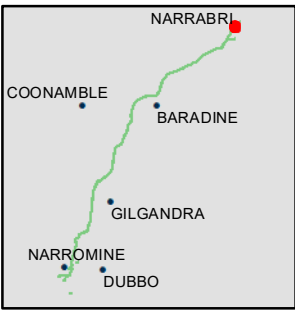
Area of departure

Buildings and sealed surfaces, vd change >10%

Percentage Change in dv

0% - 10%

10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 20% AEP - Narrabri Regional

Appendix B - Figure 3.5.20

0200400

Metres

Coordinate System: GDA 1994 MGA Zone 55

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

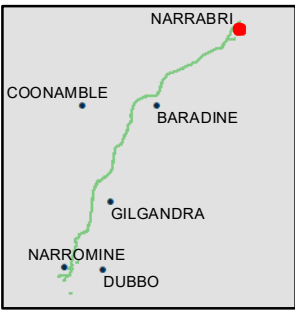
- Sub arterial road

Local road

Watercourse
- Percentage Change in dv

0% - 10%

10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 20% AEP - Narrabri Regional

Appendix B - Figure 3.5.21

0200400

Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

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

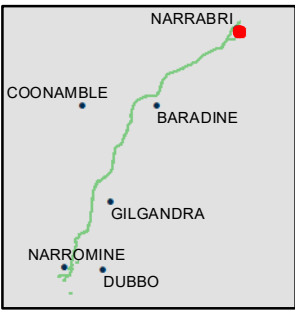
- Sub arterial road

Local road

Watercourse
- Percentage Change in dv

0% - 10%

10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 20% AEP - Narrabri Regional

Appendix B - Figure 3.5.22

0200400

Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

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

Primary road

Sub arterial road

Local road

Watercourse

Area of departure

Buildings and sealed surfaces, vd change >10%

Percentage Change in dv

0% - 10%

10% - 20%

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N:\AU\Newcastle\Projects\22\19593\GIS\GIS_2500_N2N_v2\Maps\Deliverables_SPIR\EIS\Flooding_Hydrology\Appendices\2500_EISFWAPP129_QDL_Regional_Hazard_20pc_revA.mxd



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NARROMINE TO NARRABRI

QDL departures - Hazard - 20% AEP - Narrabri Regional

Appendix B - Figure 3.5.23

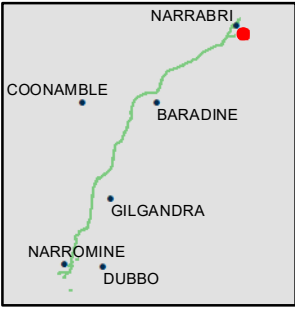
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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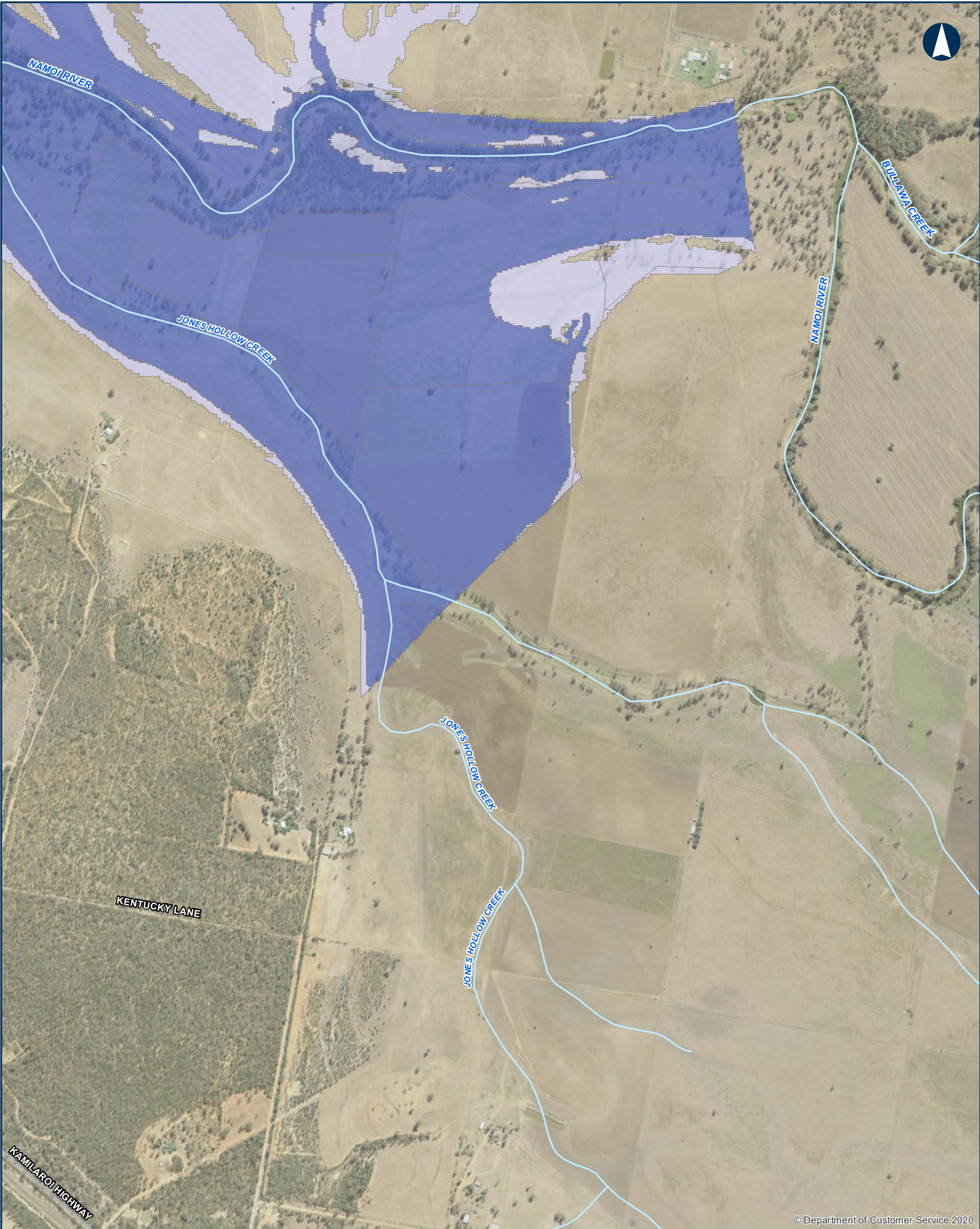
Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Primary road
- Sub arterial road
- Watercourse
- Percentage Change in dv
 - 0% - 10%
 - 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 20% AEP - Narrabri Regional

Appendix B - Figure 3.5.24

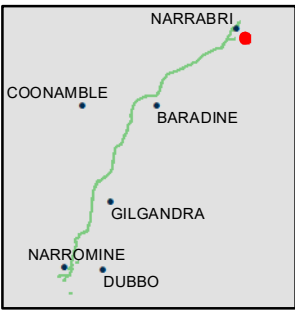
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Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Primary road
 - Sub arterial road
 - Local road
 - Watercourse
- Percentage Change in dv
- 0% - 10%
 - 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 20% AEP - Narrabri Regional

Appendix B - Figure 3.5.25

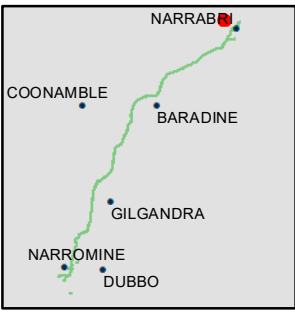
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Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Local road
- Watercourse
- Percentage Change in dv
 - 0% - 10%
 - 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 20% AEP - Narrabri Regional

Appendix B - Figure 3.5.26

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

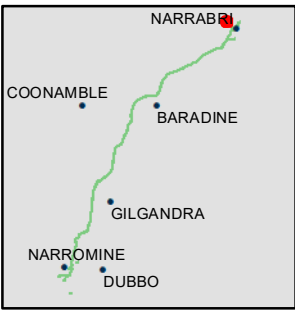
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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

Local road
Watercourse

Percentage Change in dv

0% - 10%
10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 20% AEP - Narrabri Regional

Appendix B - Figure 3.5.27

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

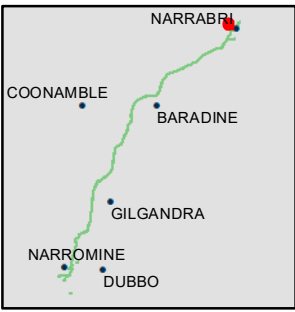
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

Watercourse

Percentage Change in dv

0% - 10%

10% - 20%



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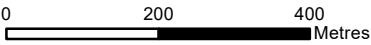


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NARROMINE TO NARRABRI

QDL departures - Hazard - 20% AEP - Narrabri Regional

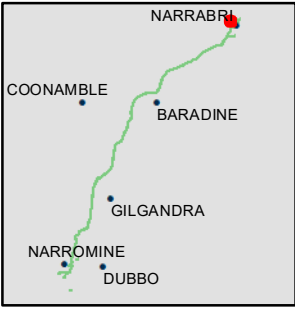
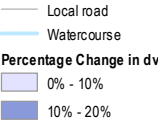
Appendix B - Figure 3.5.28



Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD



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NARROMINE TO NARRABRI QDL departures - Hazard - 20% AEP - Narrabri Regional Appendix B - Figure 3.5.29

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Primary road

Local road

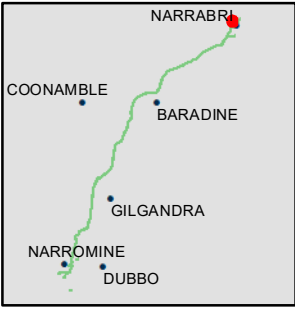
Watercourse
- Area of departure

Buildings and sealed surfaces, vd change >10%

Percentage Change in dv

0% - 10%

10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 20% AEP - Narrabri Regional

Appendix B - Figure 3.5.30

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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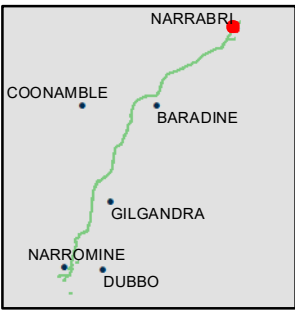
Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Bridge
- Alignment
- Primary road
- Sub arterial road
- Local road
- Watercourse
- The proposal

Rail Corridor

Area of departure

- Buildings and sealed surfaces, vd change >10%
- 0% - 10%
- 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 20% AEP - Narrabri Regional

Appendix B - Figure 3.5.31

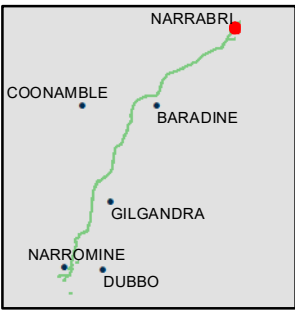
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Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Bridge
 - Alignment
 - Primary road
 - Sub arterial road
 - Local road
 - Watercourse
 - The proposal
- Area of departure
- Buildings and sealed surfaces, vd change >10%
 - 0% - 10%
 - 10% - 20%
- Percentage Change in dv



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NARROMINE TO NARRABRI

QDL departures - Hazard - 20% AEP - Narrabri Regional

Appendix B - Figure 3.5.32

0200400

Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

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

Primary road

Sub arterial road

Local road

Watercourse

Area of departure

Buildings and sealed surfaces, vd change >10%

Percentage Change in dv

0% - 10%

10% - 20%

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N:\AU\Newcastle\Projects\2219593\GIS\GIS_2500_N2N_v2\Maps\Deliverables_SPIR\EIS\Flooding_Hydrology\Appendices\2500_EISFWAPP129_QDL_Regional_Hazard_20pc_revA.mxd



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NARROMINE TO NARRABRI

QDL departures - Hazard - 20% AEP - Narrabri Regional

Appendix B - Figure 3.5.33

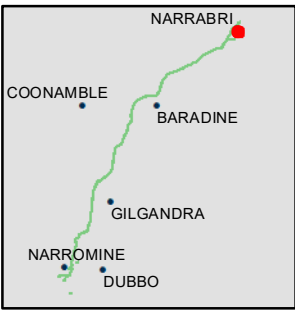
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Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Primary road
Local road
Watercourse
- Area of departure**
Buildings and sealed surfaces, vd change >10%
- Percentage Change in dv**
0% - 10%
10% - 20%



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NARROMINE TO NARRABRI QDL departures - Hazard - 20% AEP - Narrabri Regional Appendix B - Figure 3.5.34

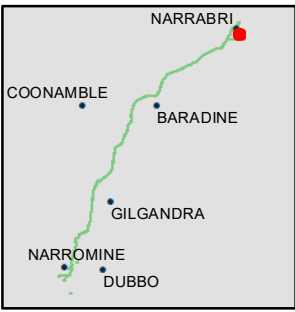
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Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Primary road
Local road
Watercourse
- Area of departure**
Buildings and sealed surfaces, vd change >10%
- Percentage Change in dv**
0% - 10%
10% - 20%



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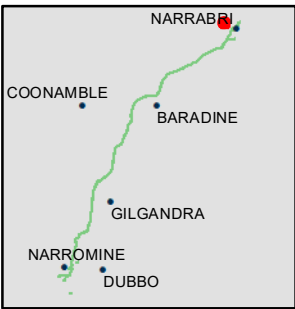
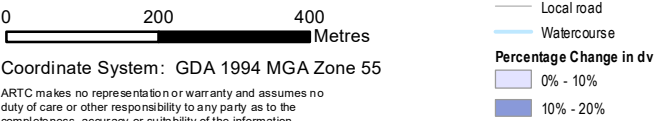


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NARROMINE TO NARRABRI

QDL departures - Hazard - 20% AEP - Narrabri Regional

Appendix B - Figure 3.5.35



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NARROMINE TO NARRABRI

QDL departures - Hazard - 20% AEP - Narrabri Regional

Appendix B - Figure 3.5.36

0 200 400 Metres

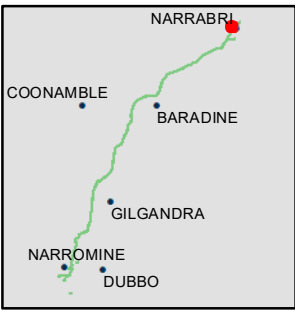
Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

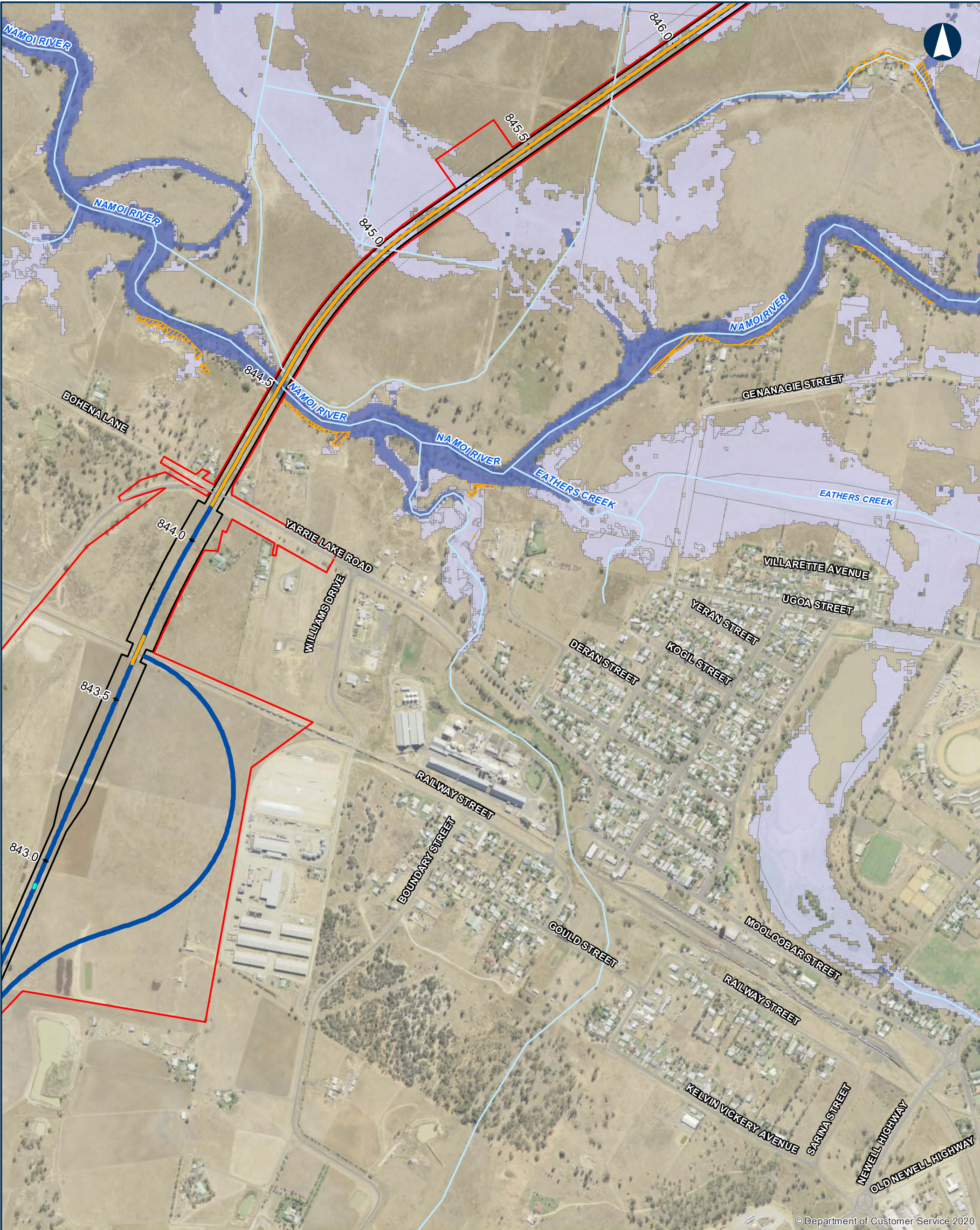
Legend

- Bridge
- Alignment
- Sub arterial road
- Local road
- Watercourse
- The proposal
- Rail Corridor
- Area of departure
 - Buildings and sealed surfaces, vd change >10%
 - Percentage Change in dv
 - 0% - 10%
 - 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 20% AEP - Narrabri Regional

Appendix B - Figure 3.5.37

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

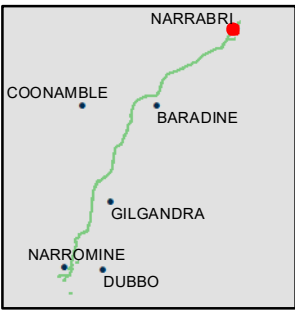
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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Bridge
- Culvert
- Alignment
- Primary road
- Sub arterial road
- Local road
- Watercourse
- The proposal

Rail Corridor

Area of departure
Buildings and sealed surfaces, vd change >10%
Percentage Change in dv
0% - 10%
10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 20% AEP - Narrabri Regional

Appendix B - Figure 3.5.38

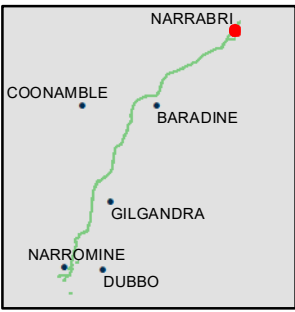
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Primary road
Sub arterial road
Local road
Watercourse
- Area of departure**
Buildings and sealed surfaces, vd change >10%
- Percentage Change in dv**
0% - 10%
10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 20% AEP - Narrabri Regional

Appendix B - Figure 3.5.39

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

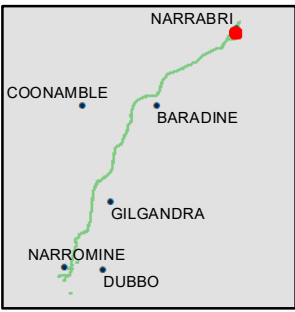
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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

Primary road
Local road
Watercourse

Area of departure
Buildings and sealed surfaces, vd change >10%

Percentage Change in dv
0% - 10%
10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 20% AEP - Narrabri Regional

Appendix B - Figure 3.5.40

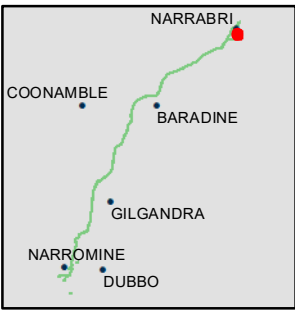
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Primary road
- Local road
- Watercourse
- Percentage Change in dv
 - 0% - 10%
 - 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 5% AEP - Narrabri Regional

Appendix B - Figure 3.6.1

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

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

Primary road

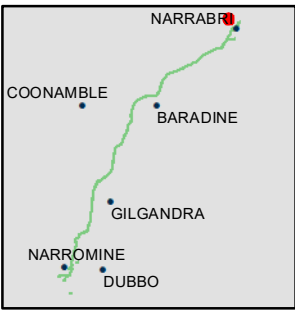
Local road

Watercourse

Percentage Change in dv

0% - 10%

10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 5% AEP - Narrabri Regional

Appendix B - Figure 3.6.2

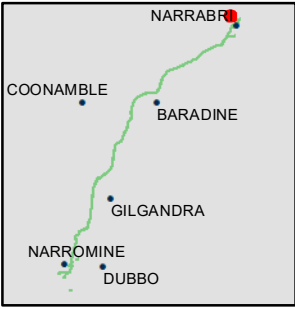
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Primary road
- Sub arterial road
- Watercourse
- Percentage Change in dv
 - 0% - 10%
 - 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 5% AEP - Narrabri Regional

Appendix B - Figure 3.6.3

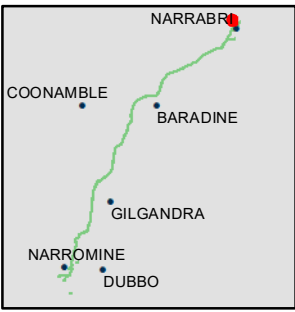
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

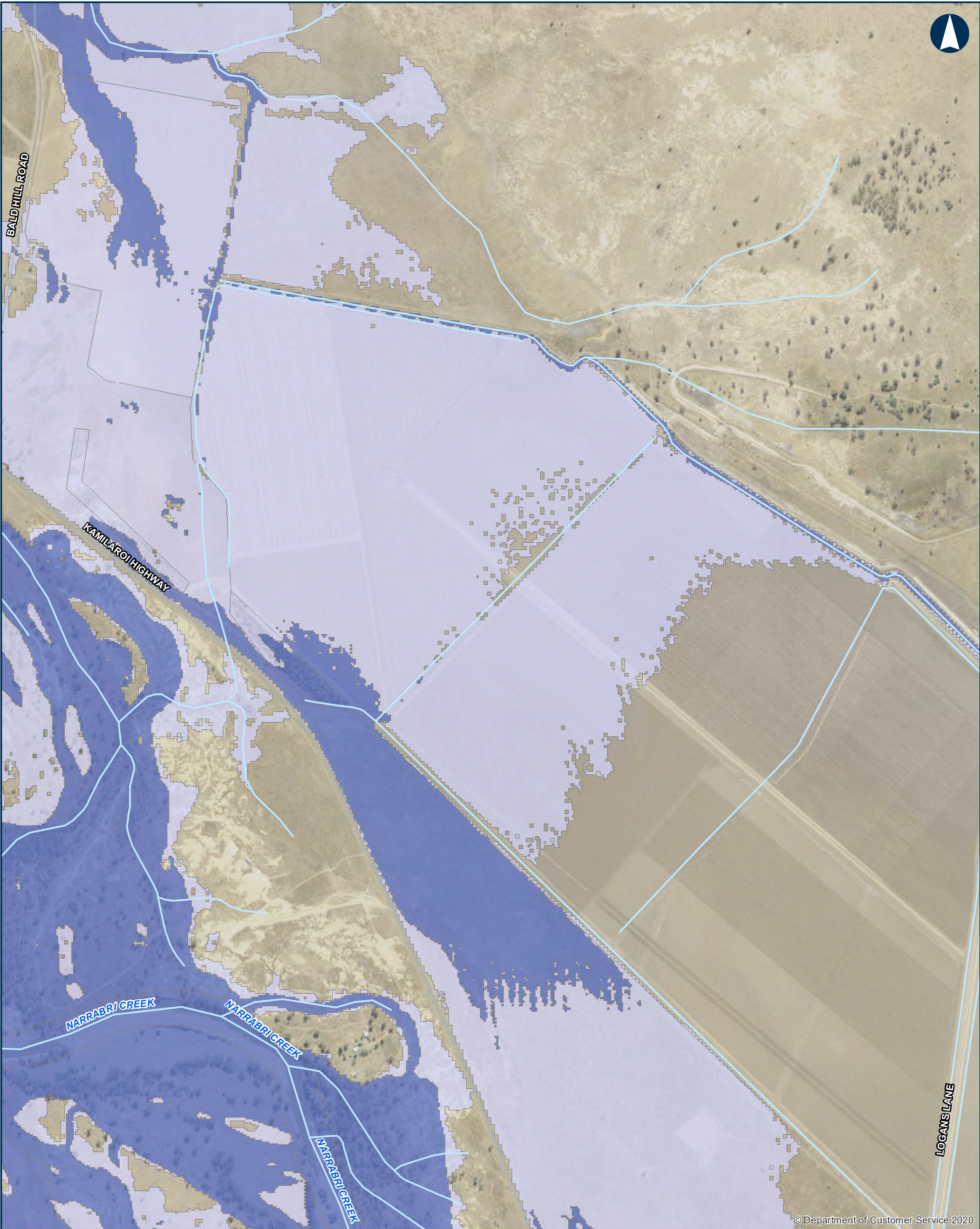
- Primary road
 - Sub arterial road
 - Local road
 - Watercourse
- Percentage Change in dv
- 0% - 10%
 - 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 5% AEP - Narrabri Regional

Appendix B - Figure 3.6.4

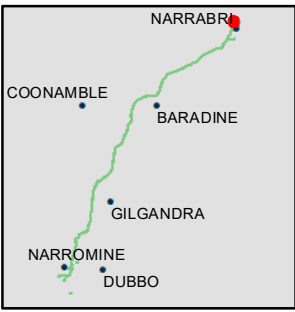
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Primary road
 - Sub arterial road
 - Local road
 - Watercourse
- Percentage Change in dv
- 0% - 10%
 - 10% - 20%



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NARROMINE TO NARRABRI QDL departures - Hazard - 5% AEP - Narrabri Regional Appendix B - Figure 3.6.5

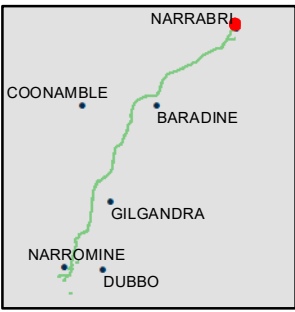
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Coordinate System: GDA 1994 MGA Zone 55

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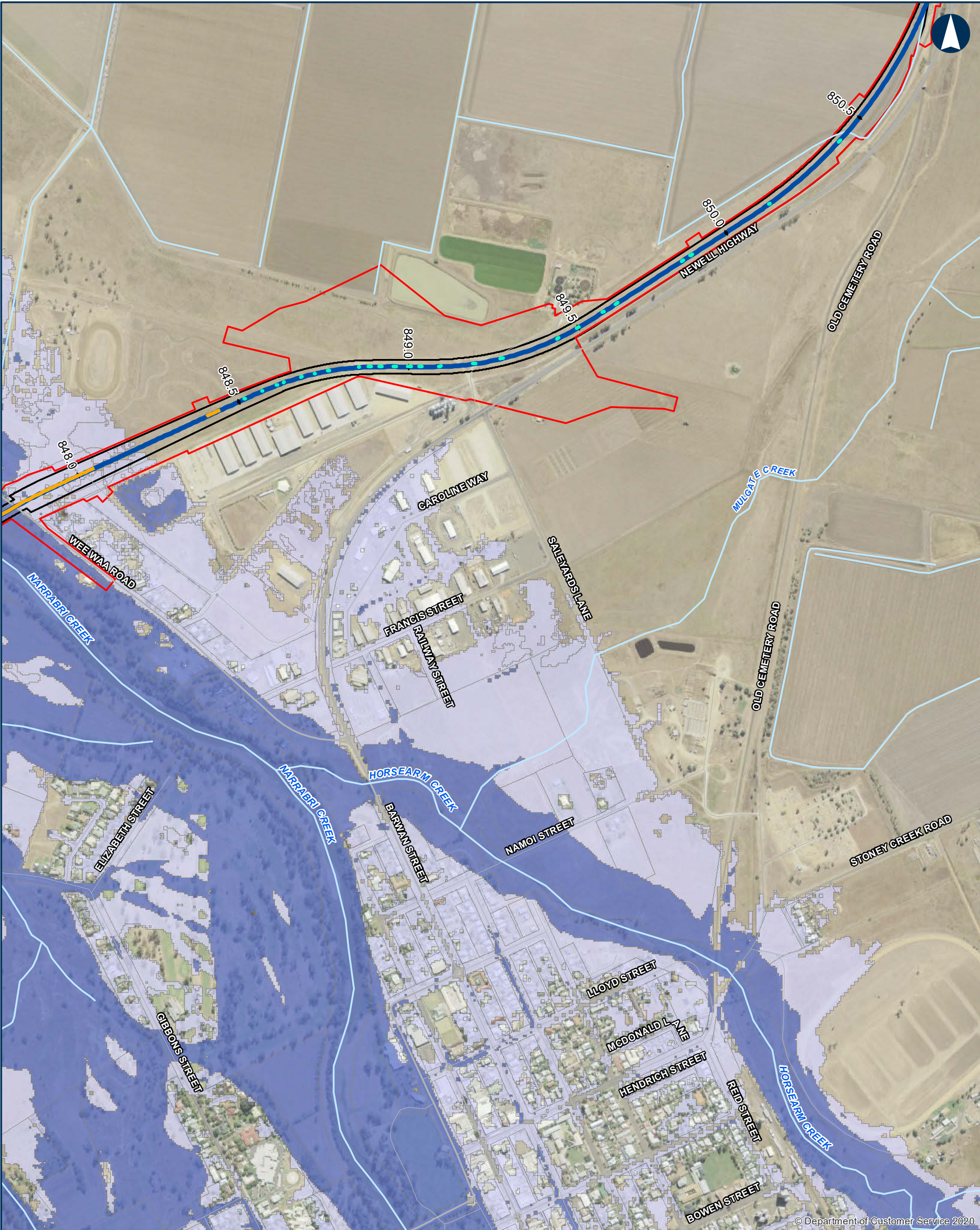
Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Bridge
- Culvert
- Alignment
- Primary road
- Local road
- Watercourse
- The proposal
- Rail Corridor
- Percentage Change in dv
 - 0% - 10%
 - 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 5% AEP - Narrabri Regional

Appendix B - Figure 3.6.6

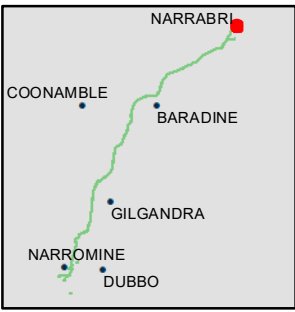
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Bridge
- Culvert
- Alignment
- Primary road
- Sub arterial road
- Local road
- Watercourse
- The proposal
- Rail Corridor
- Percentage Change in dv
 - 0% - 10%
 - 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 5% AEP - Narrabri Regional

Appendix B - Figure 3.6.7

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

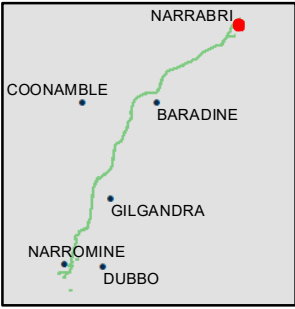
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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

Sub arterial road
Local road
Watercourse

Percentage Change in dv

0% - 10%
10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 5% AEP - Narrabri Regional

Appendix B - Figure 3.6.8

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

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

Sub arterial road

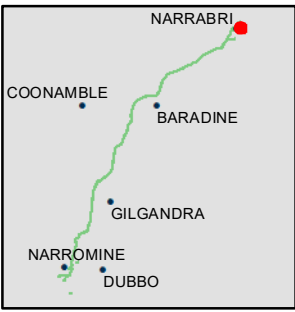
Local road

Watercourse

Percentage Change in dv

0% - 10%

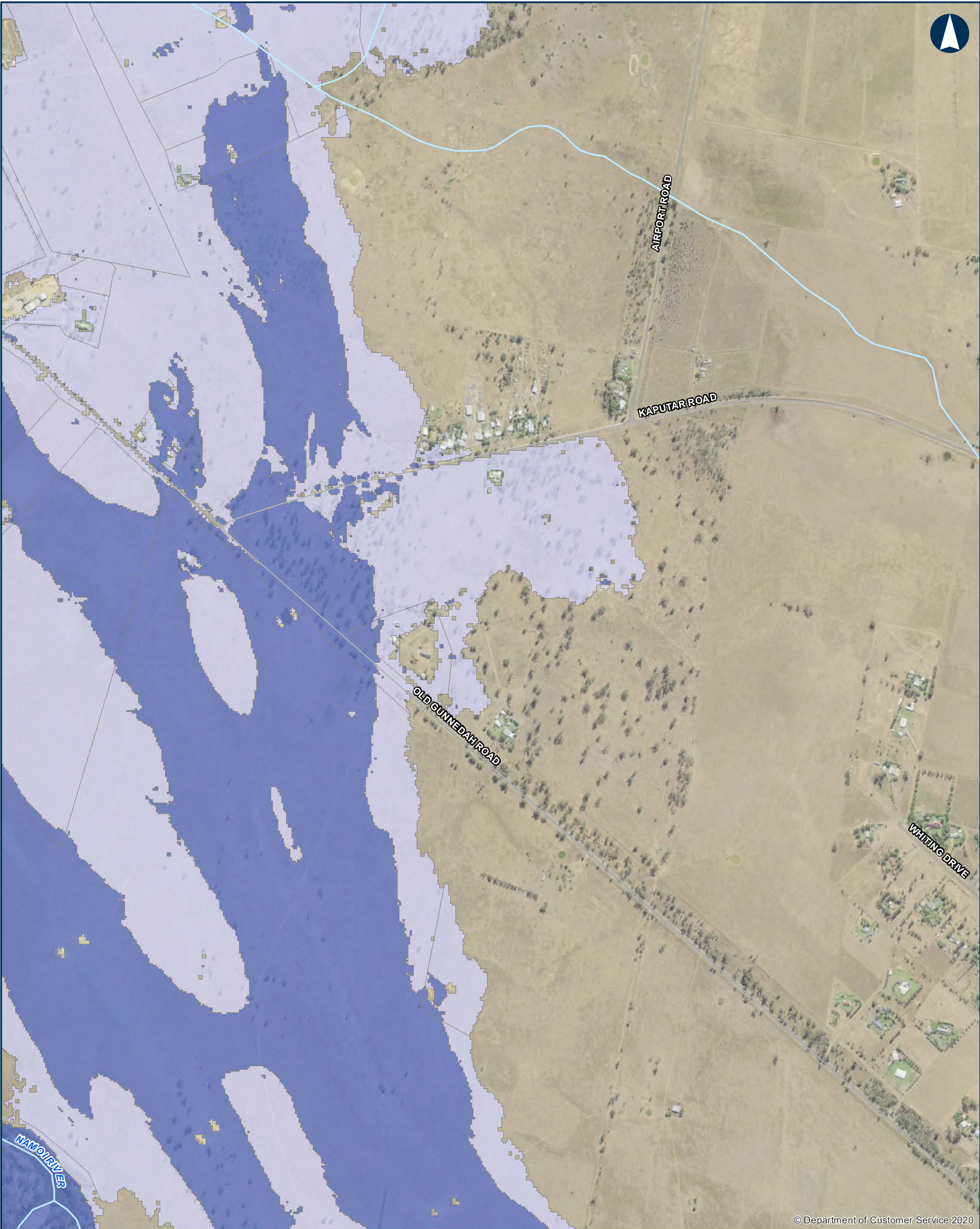
10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 5% AEP - Narrabri Regional

Appendix B - Figure 3.6.9

0200400

Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

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

Sub arterial road

Local road

Watercourse

Percentage Change in dv

0% - 10%

10% - 20%

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N:\AU\Newcastle\Projects\22\19593\GIS\GIS_2500_N2N_v2\Maps\Deliverables_SPIR\EIS\Flooding_Hydrology\Appendices\2500_EISFWPAPP132_QDL_Regional_Hazard_5pc_revA.mxd



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NARROMINE TO NARRABRI

QDL departures - Hazard - 5% AEP - Narrabri Regional

Appendix B - Figure 3.6.10

0200400

Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

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

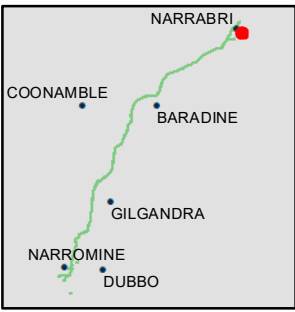
- Sub arterial road

Local road

Watercourse
- Percentage Change in dv

0% - 10%

10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 5% AEP - Narrabri Regional

Appendix B - Figure 3.6.11

0200400

Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

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

Sub arterial road

Local road

Watercourse

Percentage Change in dv

0% - 10%

10% - 20%

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N:\AU\Newcastle\Projects\22\19593\GIS\GIS_2500_N2N_v2\Maps\Deliverables_SPIR\EIS\Flooding_Hydrology\Appendices\2500_EISFWPAPP132_QDL_Regional_Hazard_5pc_revA.mxd



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NARROMINE TO NARRABRI

QDL departures - Hazard - 5% AEP - Narrabri Regional

Appendix B - Figure 3.6.12

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

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

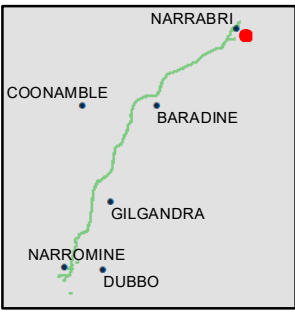
Sub arterial road

Watercourse

Percentage Change in dv

0% - 10%

10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 5% AEP - Narrabri Regional

Appendix B - Figure 3.6.13

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

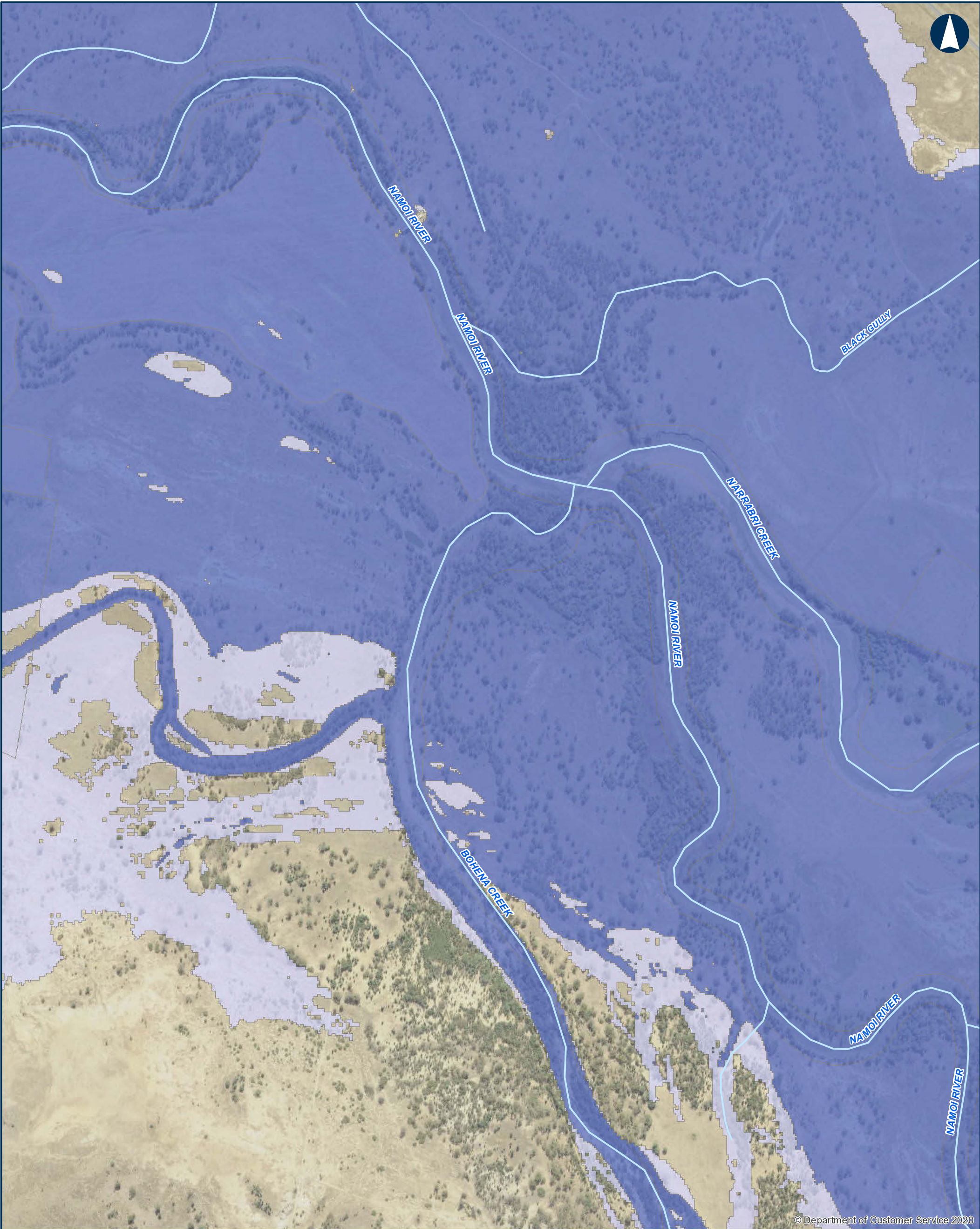
Local road
Watercourse

Percentage Change in dv

0% - 10%
10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 5% AEP - Narrabri Regional

Appendix B - Figure 3.6.14

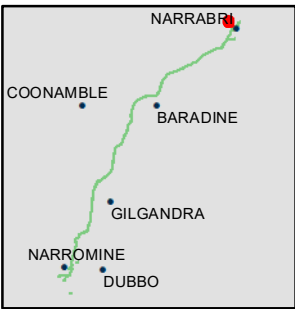
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Coordinate System: GDA 1994 MGA Zone 55

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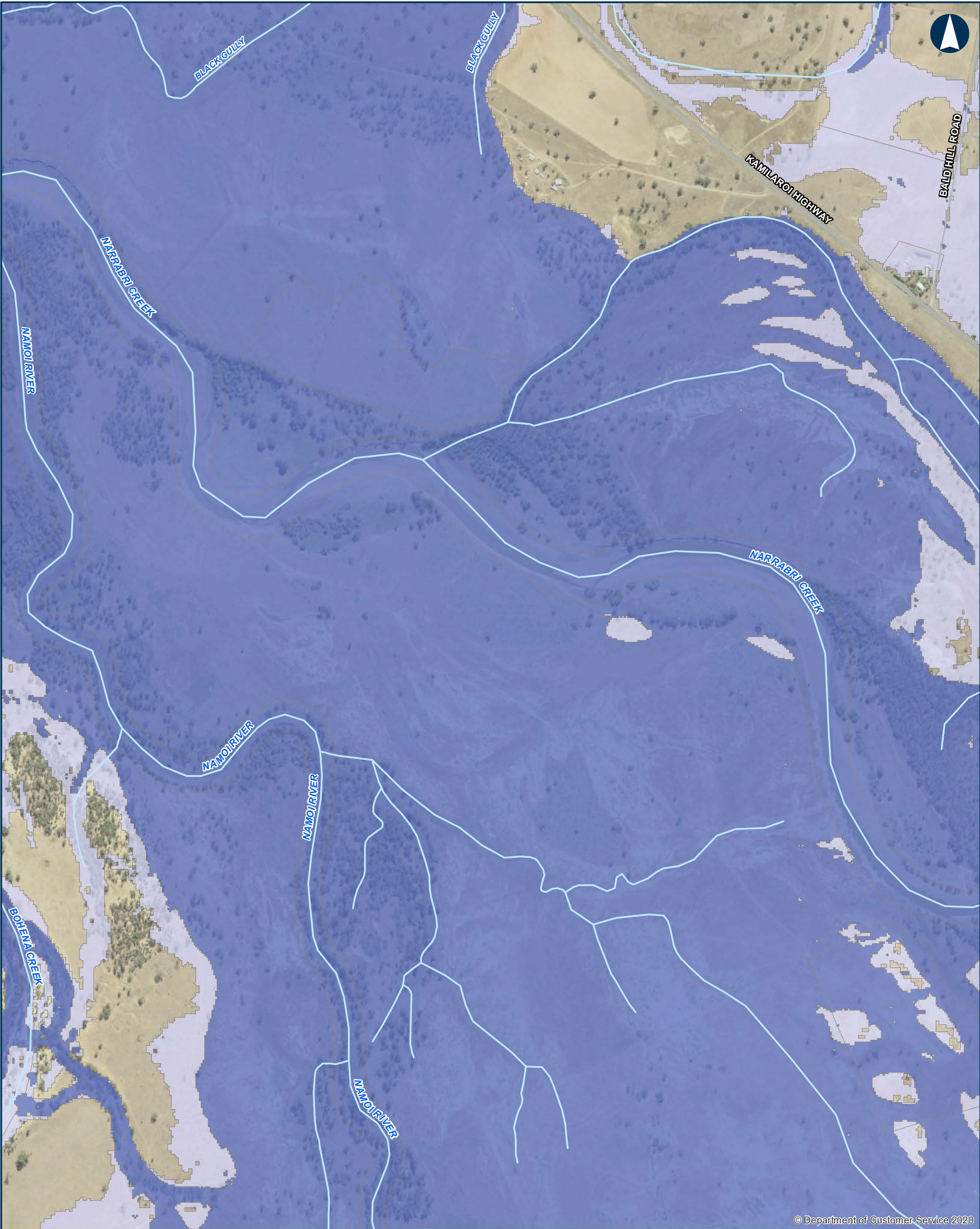
Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

Primary road
Watercourse
Percentage Change in dv
0% - 10%
10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 5% AEP - Narrabri Regional

Appendix B - Figure 3.6.15

0200400

Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

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

Primary road

Sub arterial road

Local road

Watercourse

Percentage Change in dv

0% - 10%

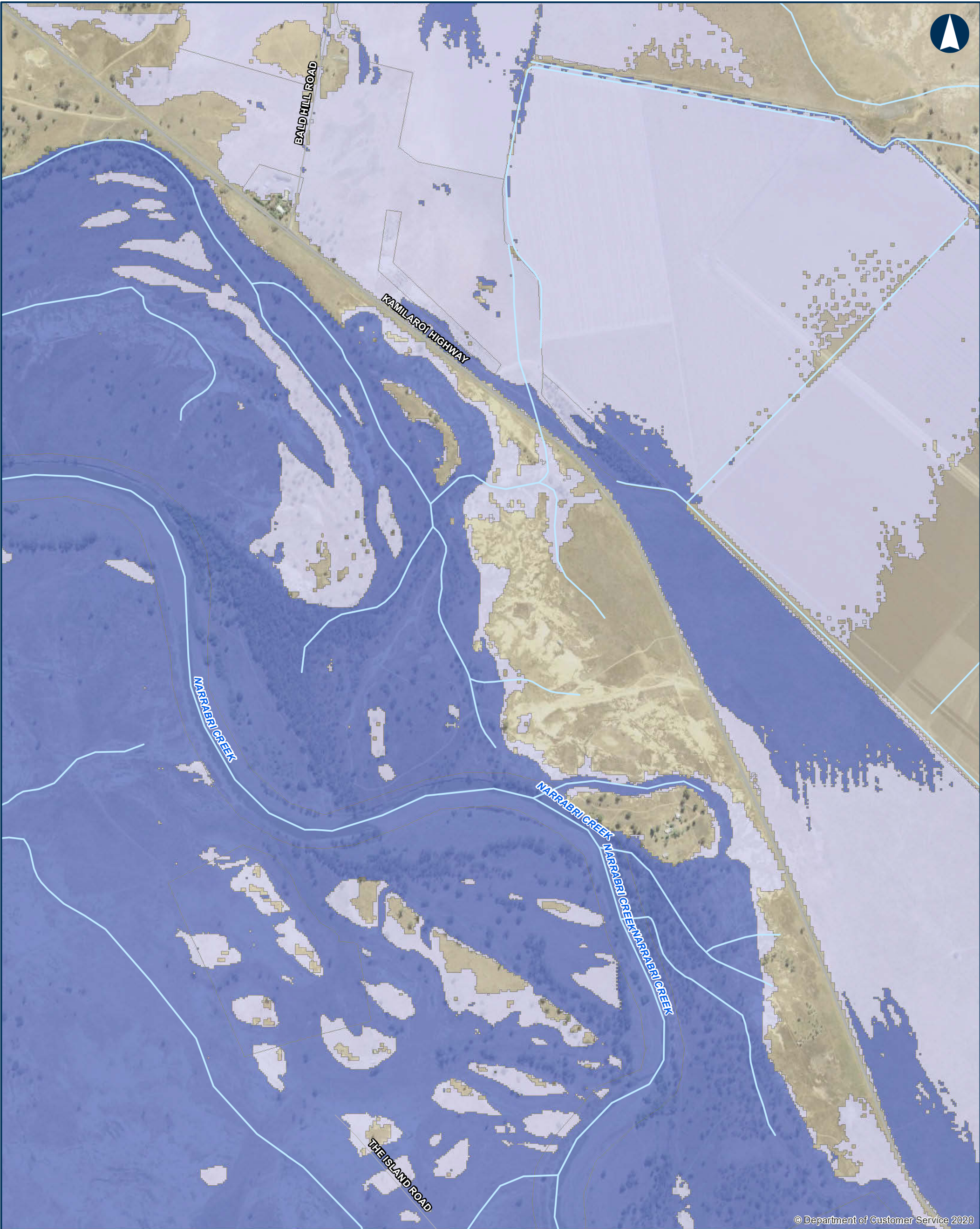
10% - 20%

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NARROMINE TO NARRABRI

QDL departures - Hazard - 5% AEP - Narrabri Regional

Appendix B - Figure 3.6.16

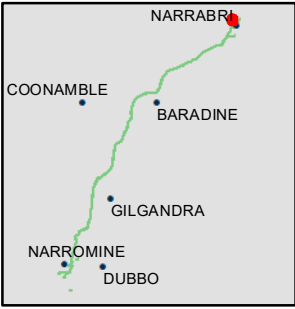
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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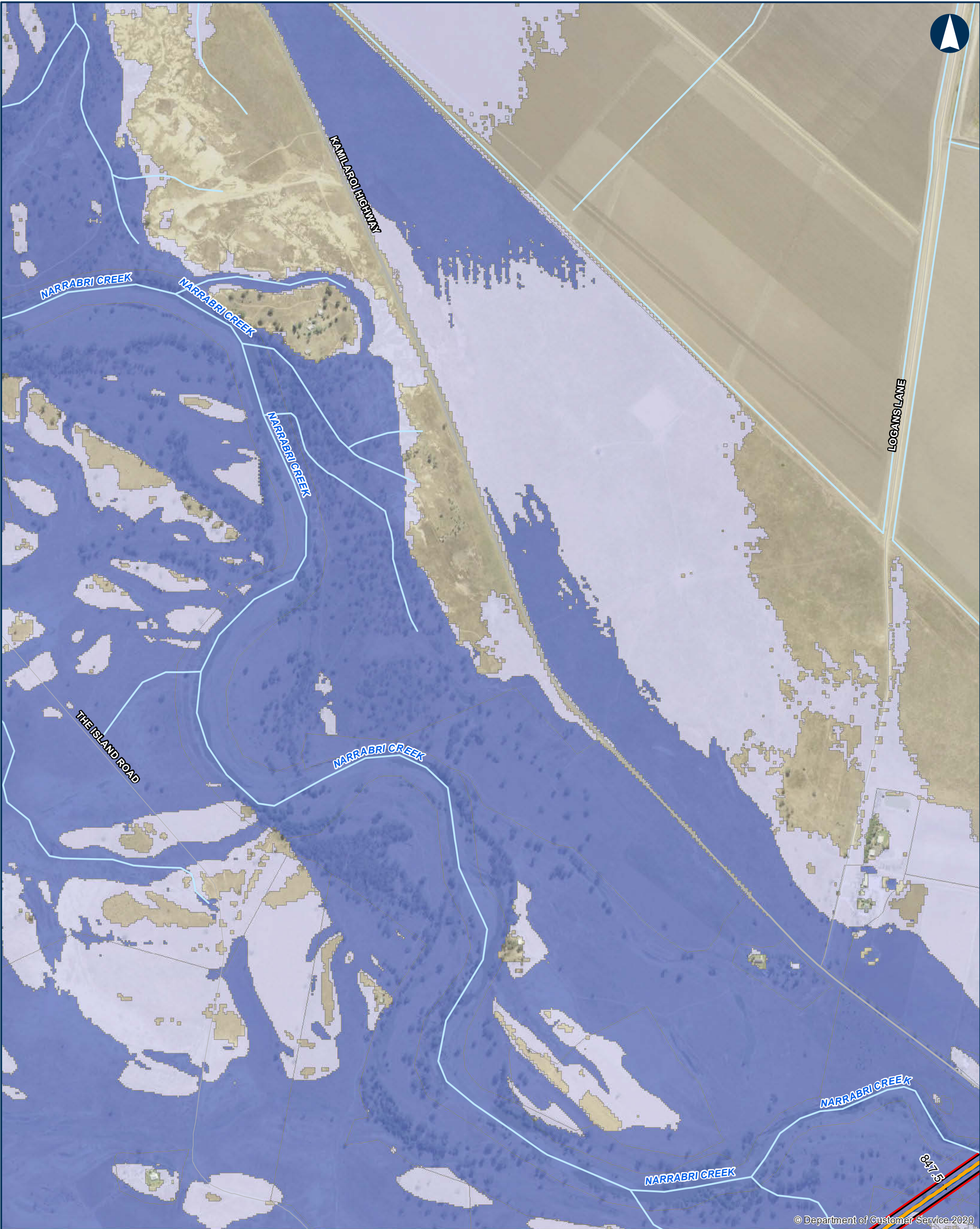
Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Primary road
- Sub arterial road
- Local road
- Watercourse
- Percentage Change in dv
 - 0% - 10%
 - 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 5% AEP - Narrabri Regional

Appendix B - Figure 3.6.17

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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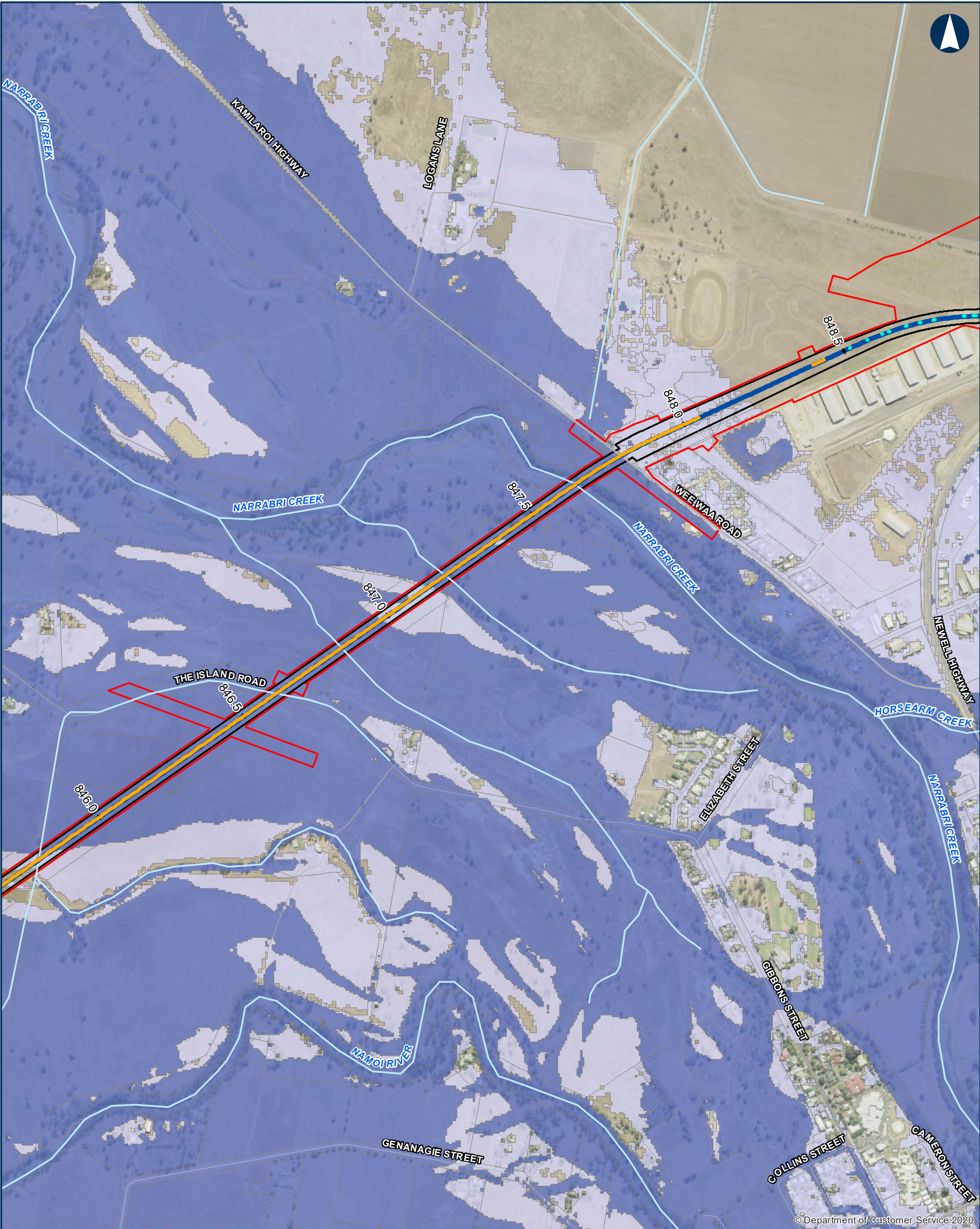
Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Bridge
- Alignment
- Primary road
- Local road
- Watercourse
- The proposal
- Rail Corridor
- Percentage Change in dv
 - 0% - 10%
 - 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 5% AEP - Narrabri Regional

Appendix B - Figure 3.6.18

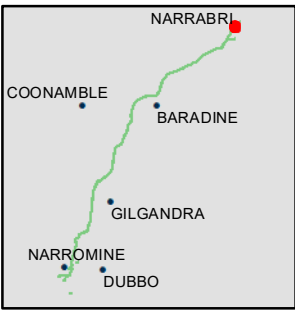
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Coordinate System: GDA 1994 MGA Zone 55

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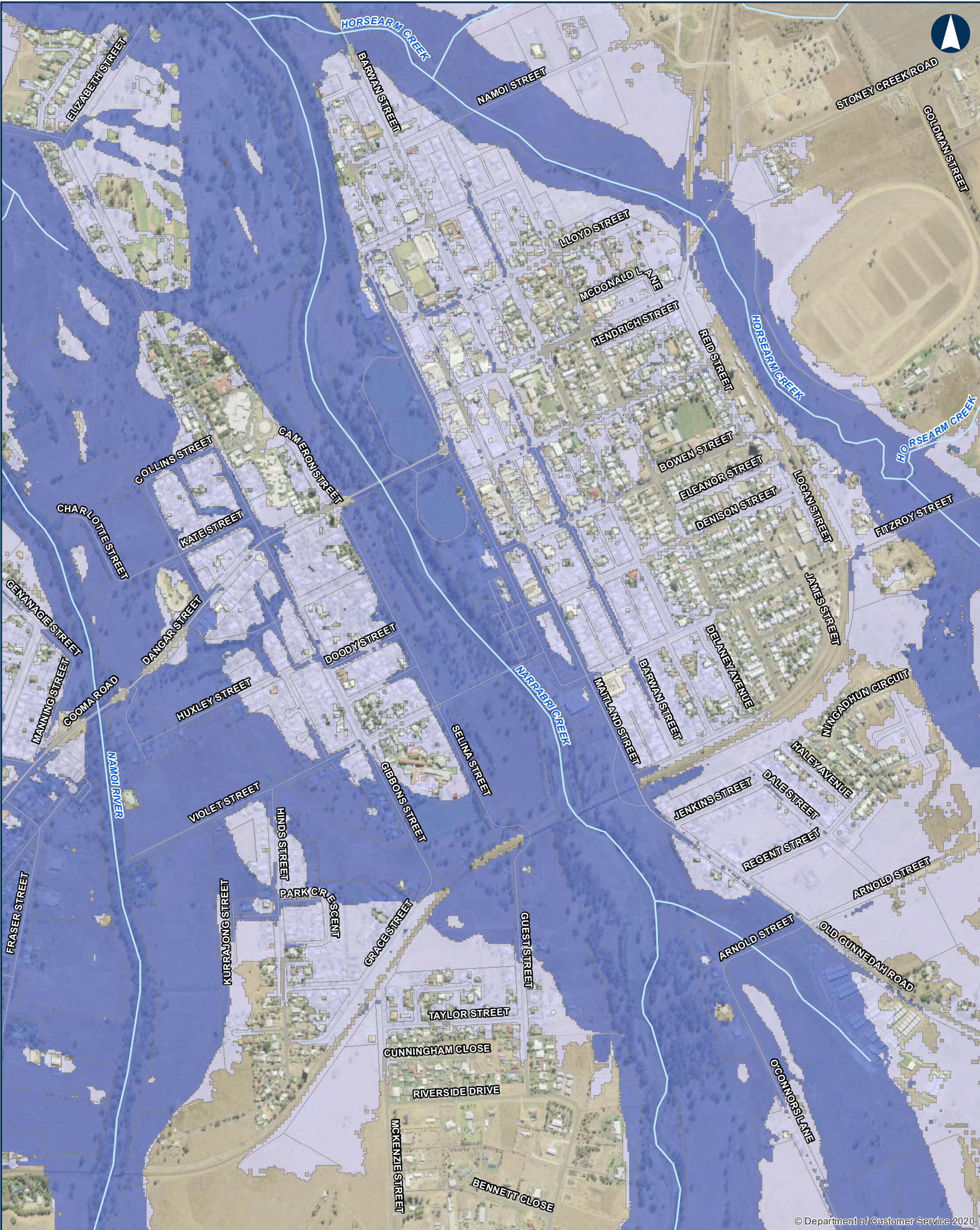
Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Bridge
- Culvert
- Alignment
- Primary road
- Local road
- Watercourse
- The proposal
- Rail Corridor
- Percentage Change in dv
 - 0% - 10%
 - 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 5% AEP - Narrabri Regional

Appendix B - Figure 3.6.19

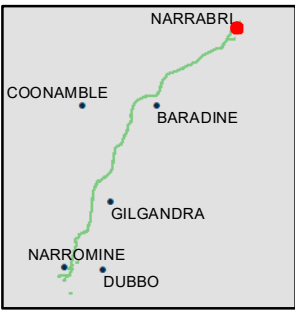
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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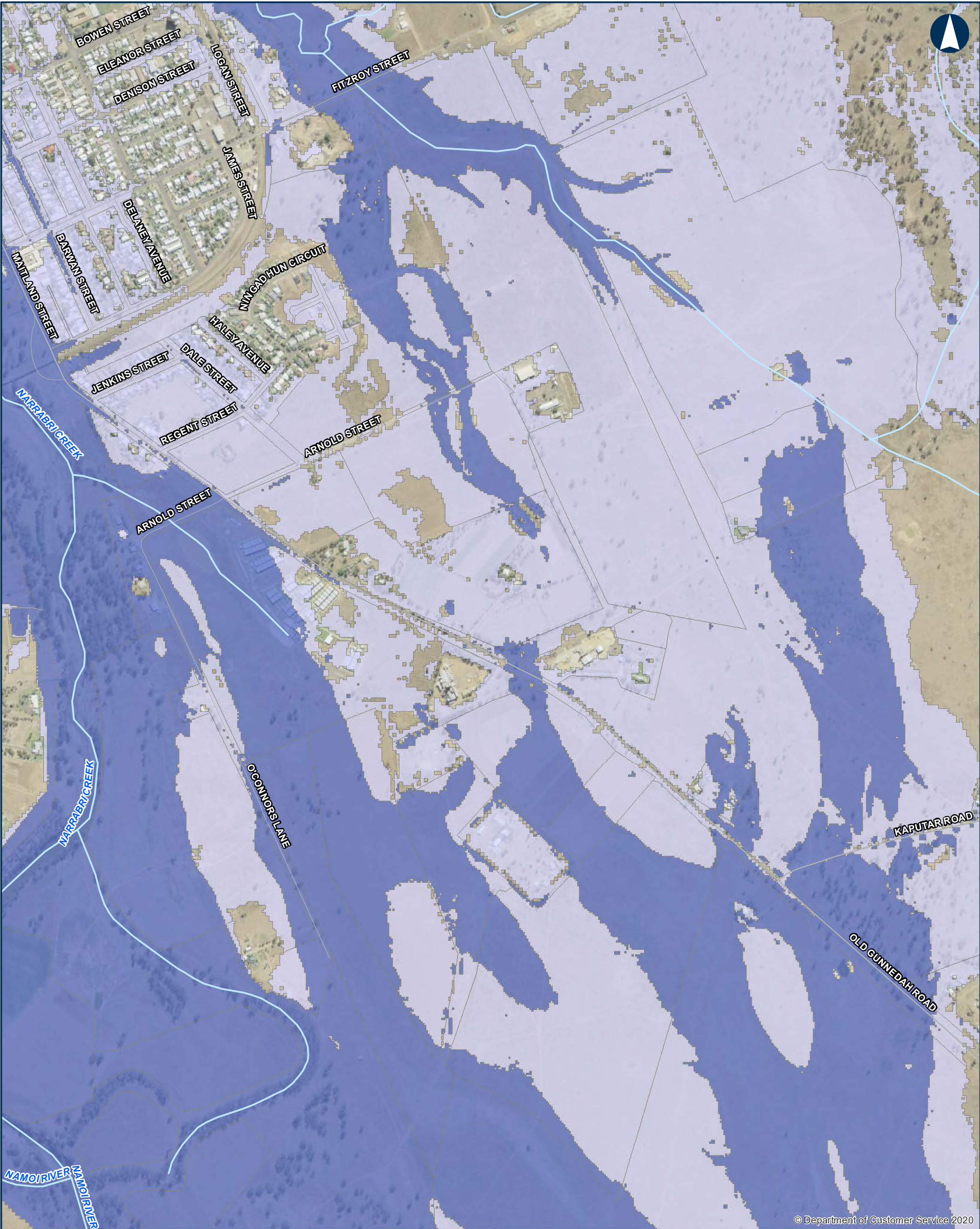
Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Primary road
 - Sub arterial road
 - Local road
 - Watercourse
- Percentage Change in dv
- 0% - 10%
 - 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 5% AEP - Narrabri Regional

Appendix B - Figure 3.6.20

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

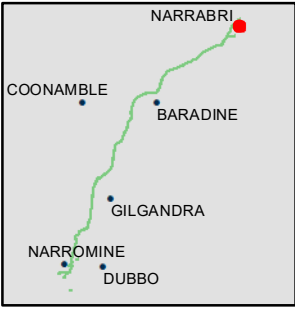
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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

Sub arterial road
Local road
Watercourse

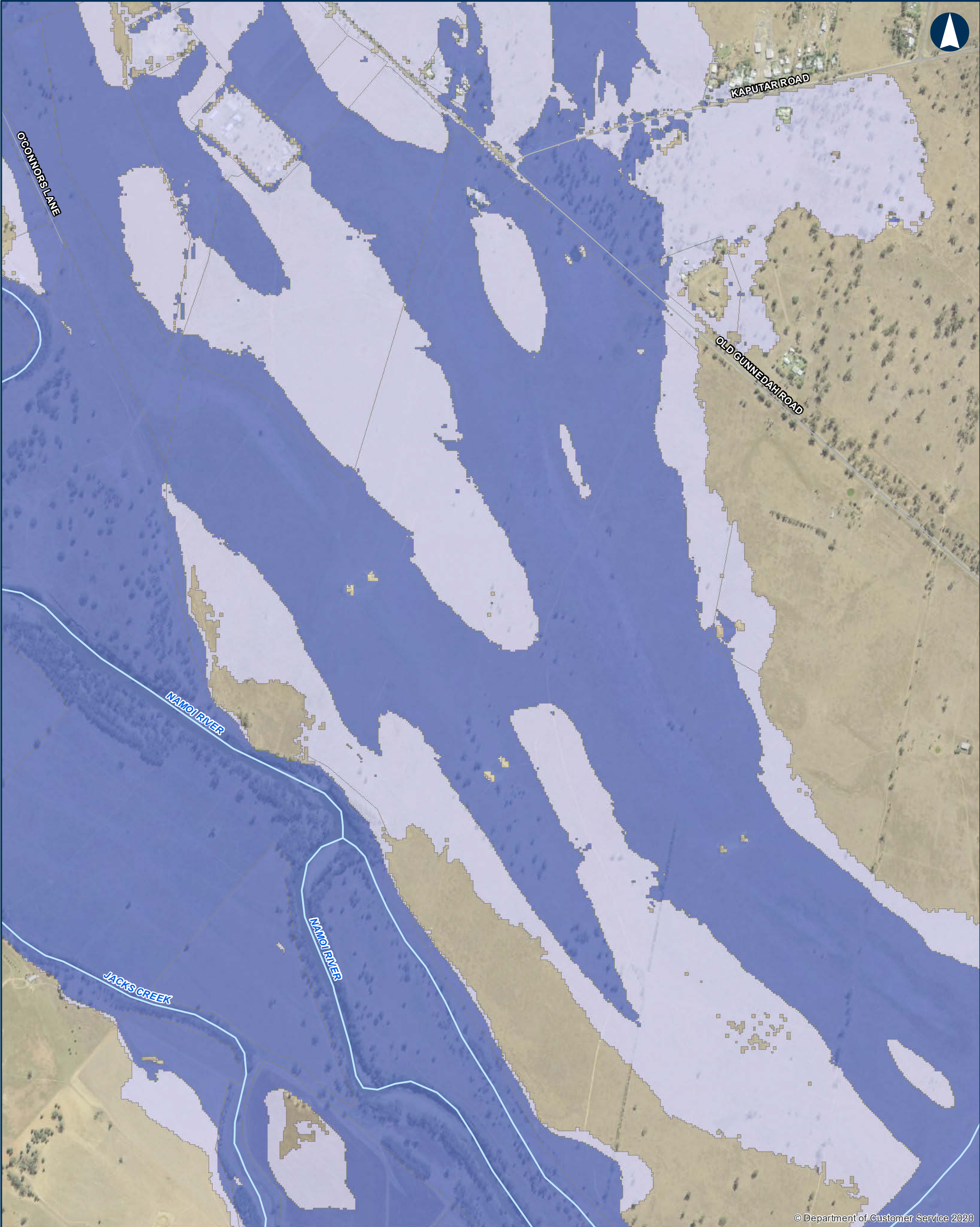
Percentage Change in dv

0% - 10%
10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 5% AEP - Narrabri Regional

Appendix B - Figure 3.6.21

0200400

Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

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

Sub arterial road

Local road

Watercourse

Percentage Change in dv

0% - 10%

10% - 20%

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NARROMINE TO NARRABRI

QDL departures - Hazard - 5% AEP - Narrabri Regional

Appendix B - Figure 3.6.22

0 200 400 Metres

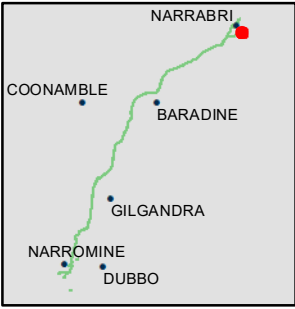
Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

Primary road
Sub arterial road
Local road
Watercourse

Percentage Change in dv
0% - 10%
10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 5% AEP - Narrabri Regional

Appendix B - Figure 3.6.23

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

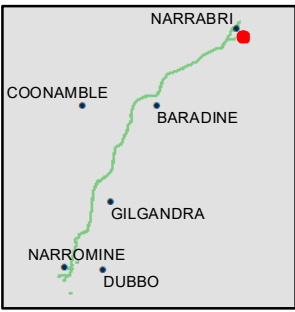
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Primary road

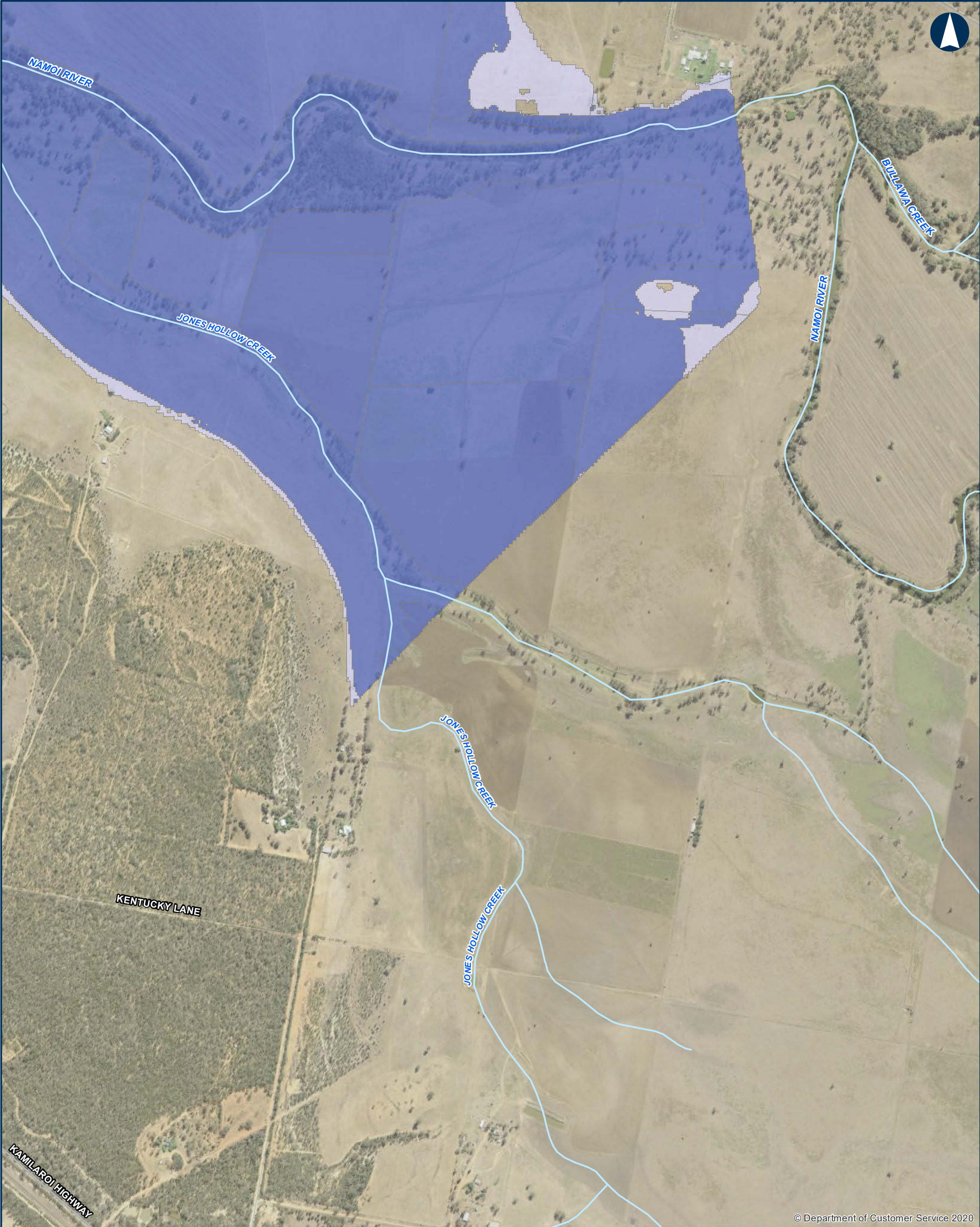
Sub arterial road

Watercourse
- Percentage Change in dv
- 0% - 10%

10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 5% AEP - Narrabri Regional

Appendix B - Figure 3.6.24

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

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

Primary road

Sub arterial road

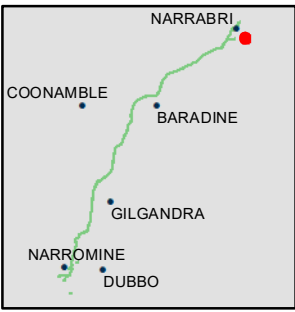
Local road

Watercourse

Percentage Change in dv

0% - 10%

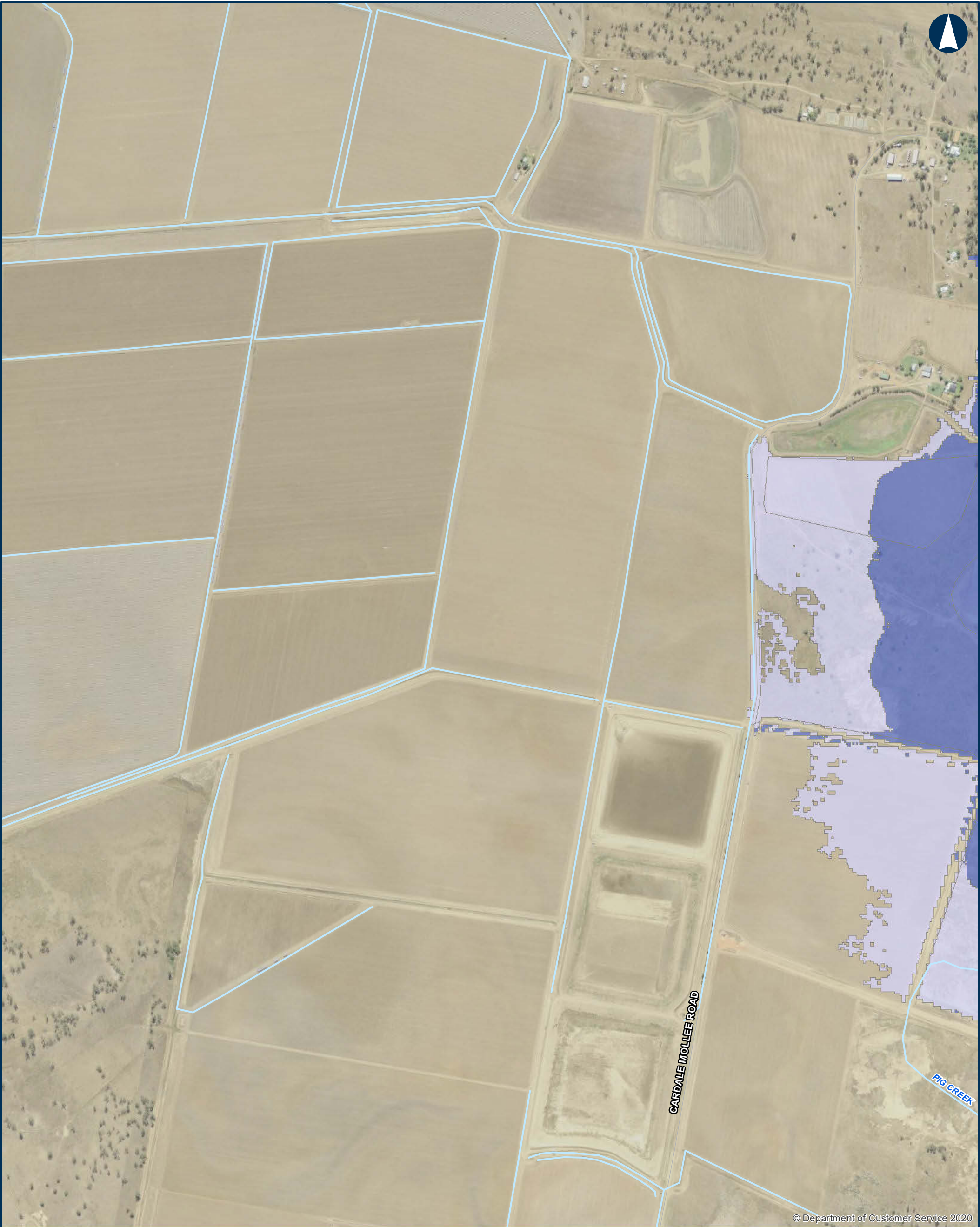
10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 5% AEP - Narrabri Regional

Appendix B - Figure 3.6.25

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

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

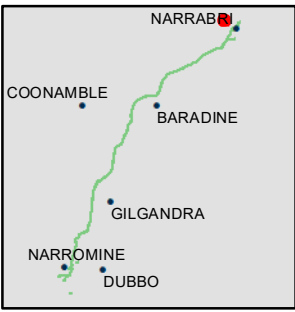
Local road

Watercourse

Percentage Change in dv

0% - 10%

10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 5% AEP - Narrabri Regional

Appendix B - Figure 3.6.26

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

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

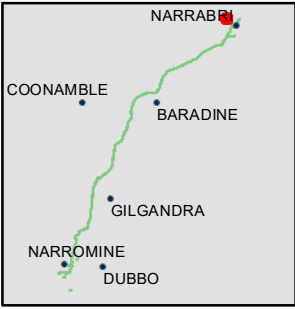
Local road

Watercourse

Percentage Change in dv

0% - 10%

10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 5% AEP - Narrabri Regional

Appendix B - Figure 3.6.27

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

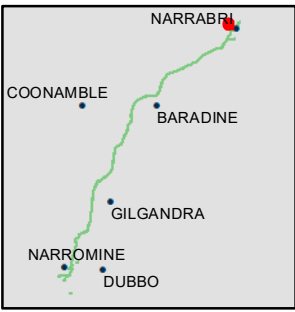
Paper: A3

Author: JacobsGHD

Scale: 1:10,000

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

- Watercourse
- Percentage Change in dv
- 0% - 10%
- 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 5% AEP - Narrabri Regional

Appendix B - Figure 3.6.28

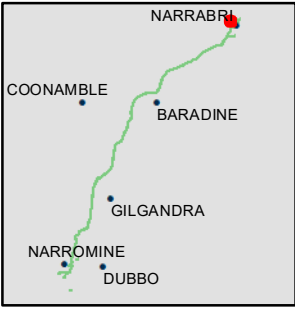
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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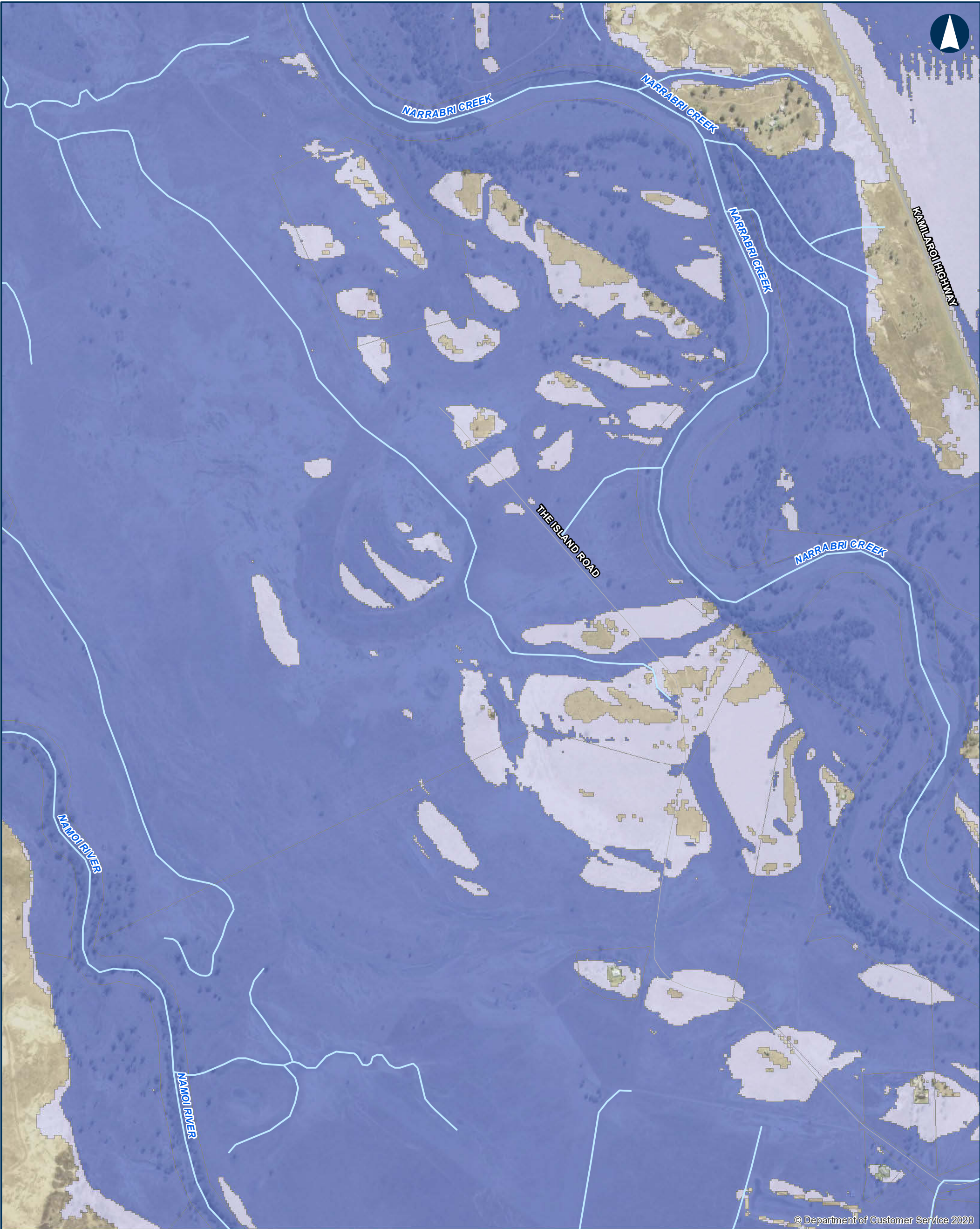
Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Local road
- Watercourse
- Percentage Change in dv
 - 0% - 10%
 - 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 5% AEP - Narrabri Regional

Appendix B - Figure 3.6.29

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

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

Primary road

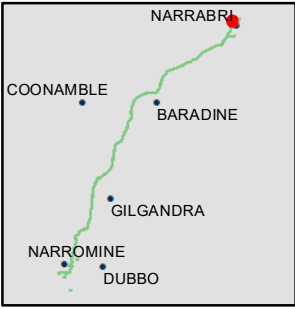
Local road

Watercourse

Percentage Change in dv

0% - 10%

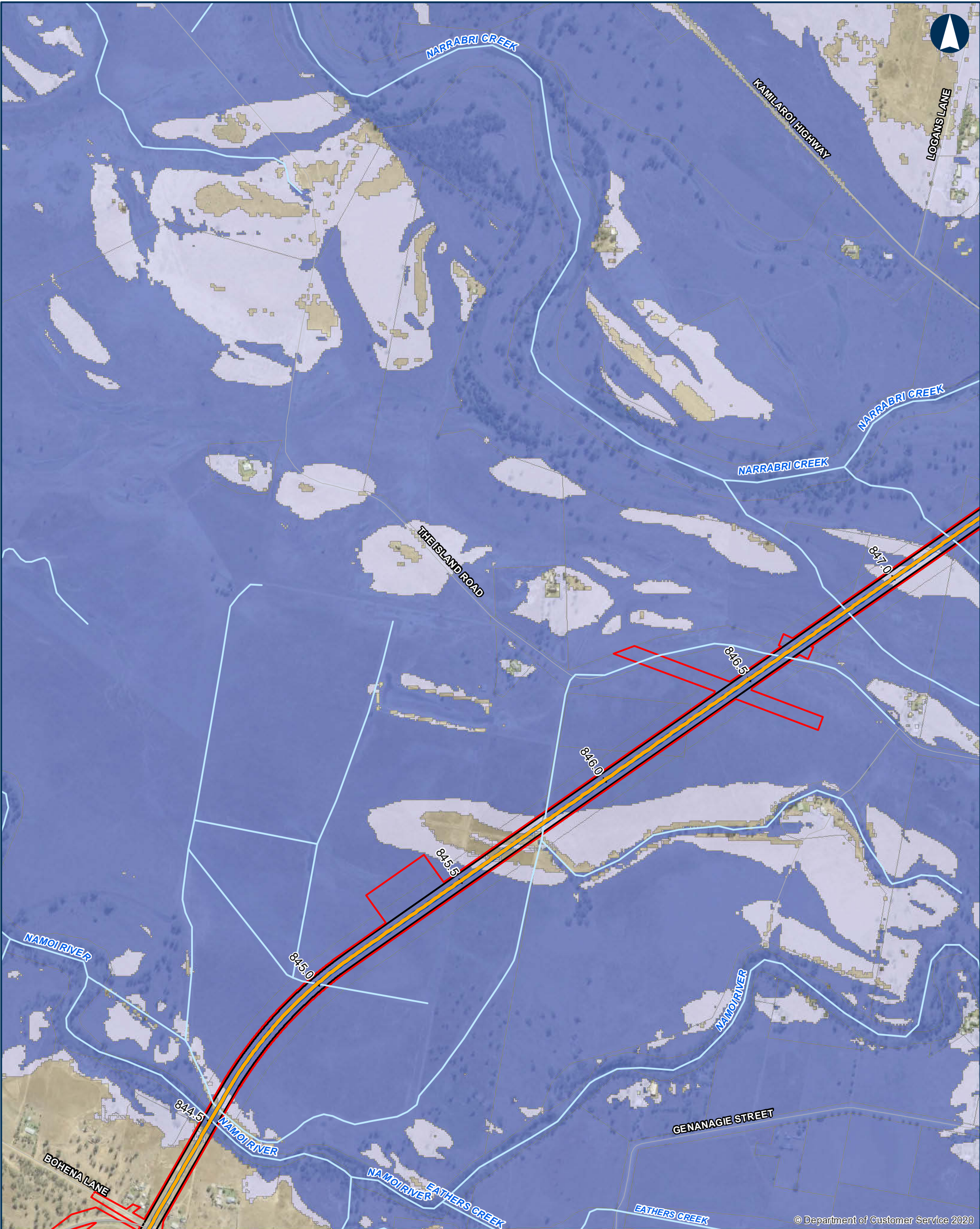
10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 5% AEP - Narrabri Regional

Appendix B - Figure 3.6.30

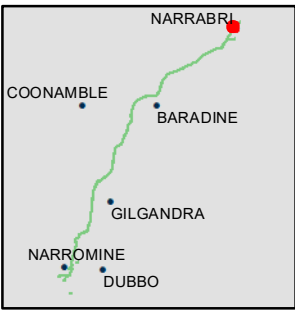
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Coordinate System: GDA 1994 MGA Zone 55

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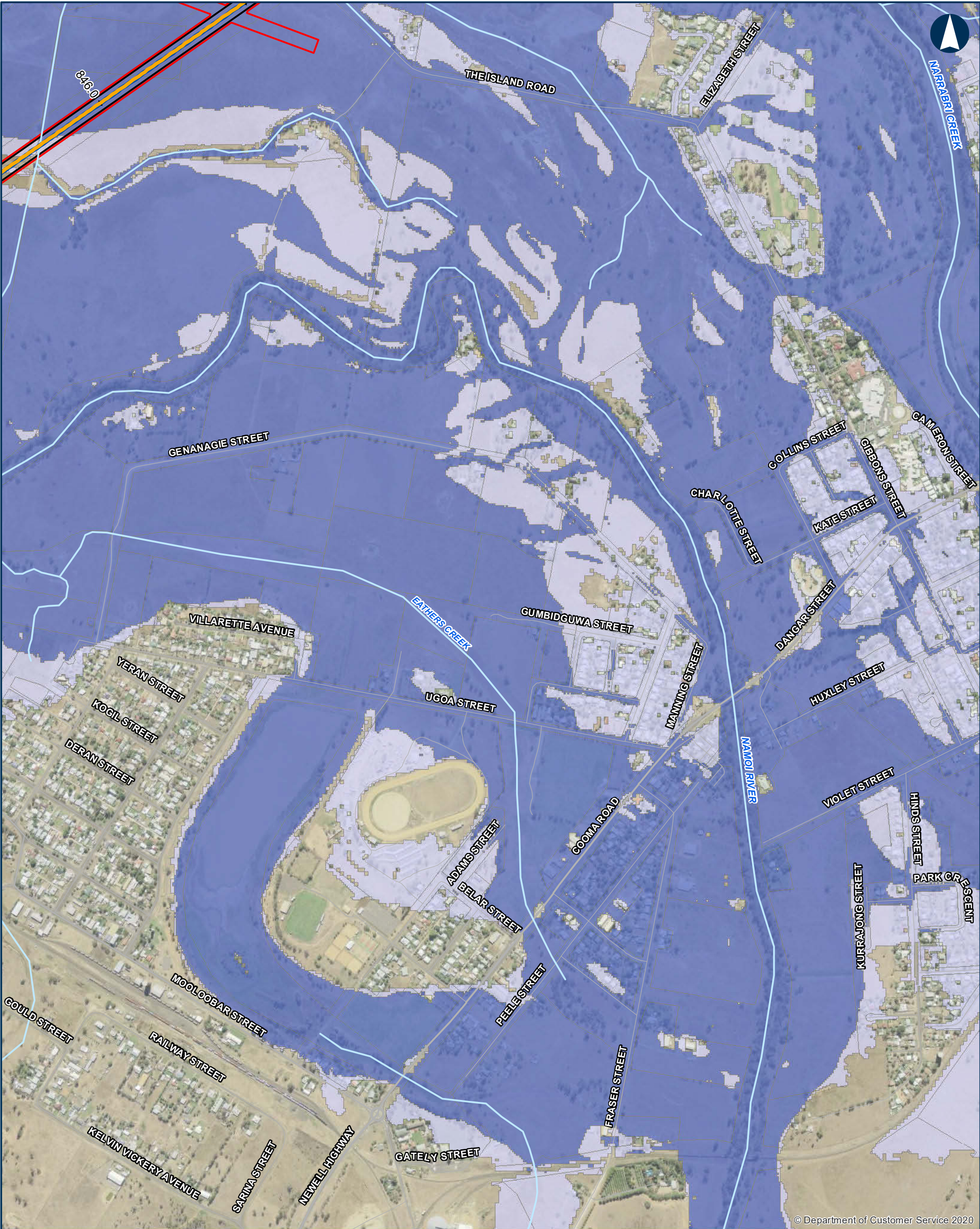
Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Bridge
- Alignment
- Primary road
- Sub arterial road
- Local road
- Watercourse
- The proposal
- Rail Corridor
- Percentage Change in dv
 - 0% - 10%
 - 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 5% AEP - Narrabri Regional

Appendix B - Figure 3.6.31

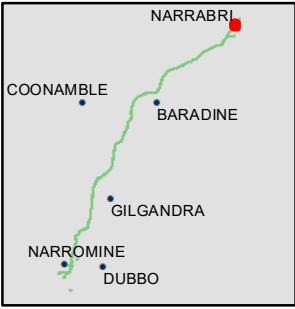
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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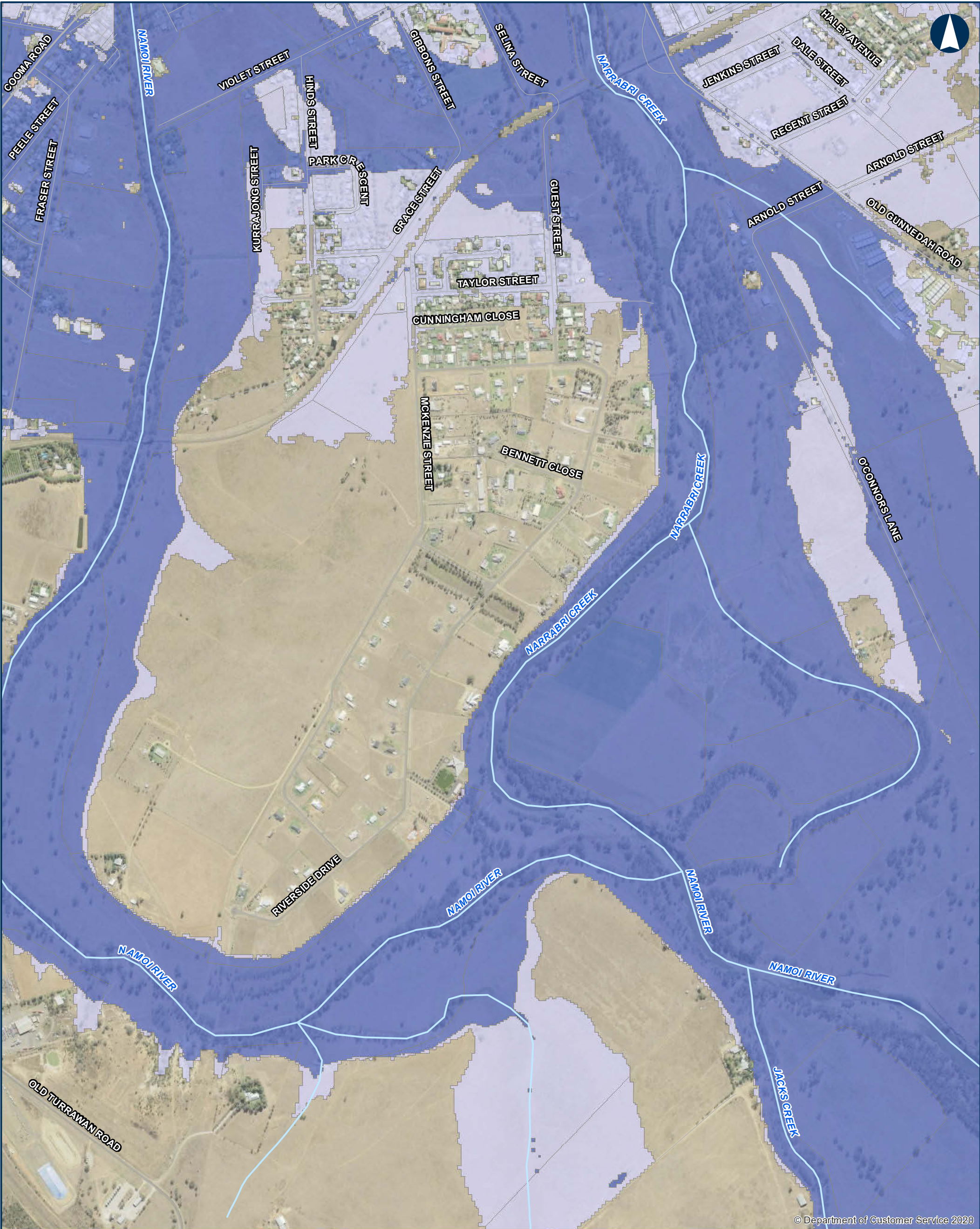
Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Bridge
- Alignment
- Primary road
- Sub arterial road
- Local road
- Watercourse
- The proposal
- Rail Corridor
- Percentage Change in dv
 - 0% - 10%
 - 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 5% AEP - Narrabri Regional

Appendix B - Figure 3.6.32

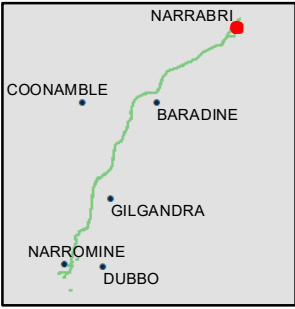
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Coordinate System: GDA 1994 MGA Zone 55

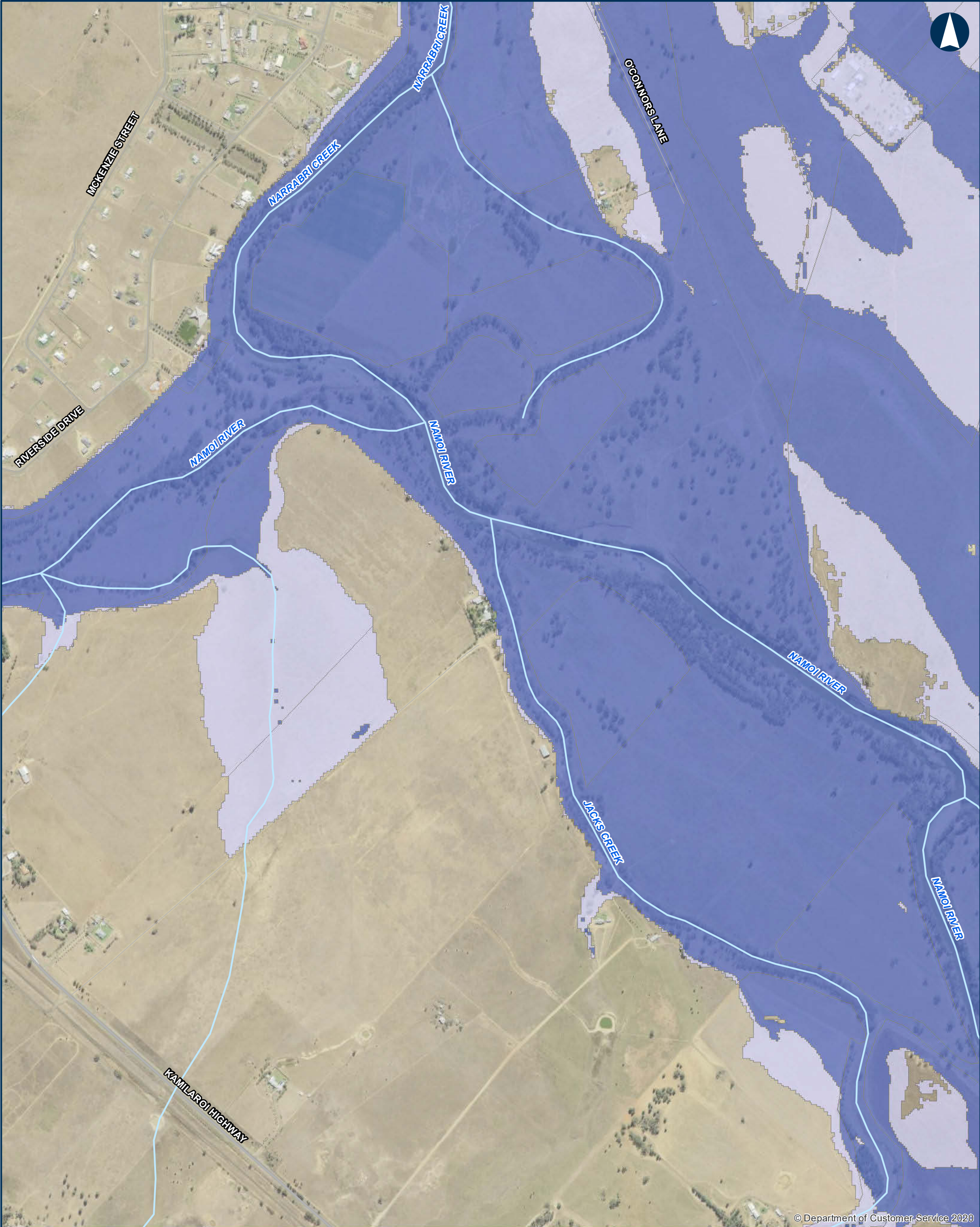
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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Primary road
 - Sub arterial road
 - Local road
 - Watercourse
- Percentage Change in dv
- 0% - 10%
 - 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 5% AEP - Narrabri Regional

Appendix B - Figure 3.6.33

0200400

Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

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

Primary road

Local road

Watercourse

Percentage Change in dv

0% - 10%

10% - 20%

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NARROMINE TO NARRABRI

QDL departures - Hazard - 5% AEP - Narrabri Regional

Appendix B - Figure 3.6.34

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

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

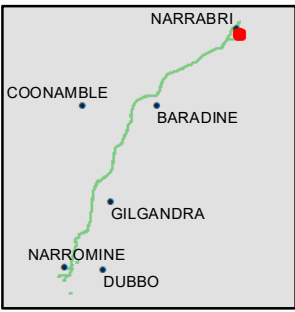
- Primary road

Local road

Watercourse
- Percentage Change in dv

0% - 10%

10% - 20%



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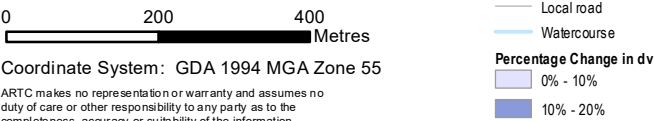


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NARROMINE TO NARRABRI

QDL departures - Hazard - 5% AEP - Narrabri Regional

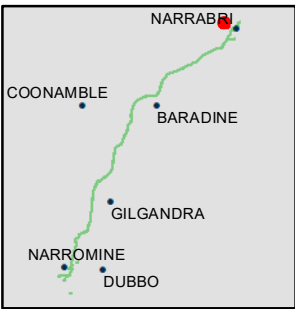
Appendix B - Figure 3.6.35



Coordinate System: GDA 1994 MGA Zone 55

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Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD



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NARROMINE TO NARRABRI

QDL departures - Hazard - 5% AEP - Narrabri Regional

Appendix B - Figure 3.6.36

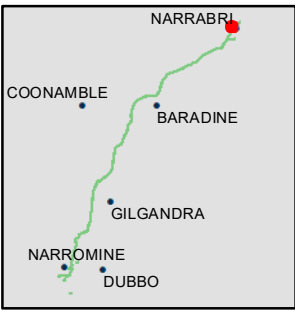
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Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Bridge
- Alignment
- Sub arterial road
- Local road
- Watercourse
- The proposal
- Rail Corridor
- Percentage Change in dv
 - 0% - 10%
 - 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 5% AEP - Narrabri Regional

Appendix B - Figure 3.6.37

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022Paper: A3

Author: JacobsGHDScale: 1:10,000

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

Bridge

Culvert

Alignment

Primary road

Sub arterial road

Local road

Watercourse

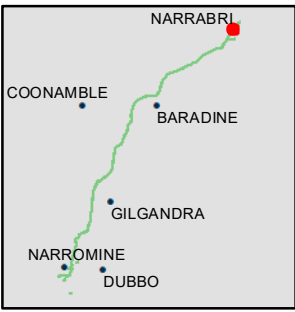
The proposal

Rail Corridor

Percentage Change in dv

0% - 10%

10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 5% AEP - Narrabri Regional

Appendix B - Figure 3.6.38

0 200 400 Metres

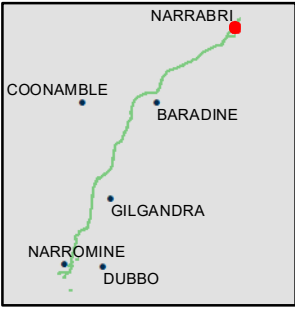
Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

Primary road
Sub arterial road
Local road
Watercourse

Percentage Change in dv
0% - 10%
10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 5% AEP - Narrabri Regional

Appendix B - Figure 3.6.39

0200400

Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

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

Primary road


Local road

Watercourse

Percentage Change in dv

0% - 10%

10% - 20%

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NARROMINE TO NARRABRI

QDL departures - Hazard - 5% AEP - Narrabri Regional

Appendix B - Figure 3.6.40

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

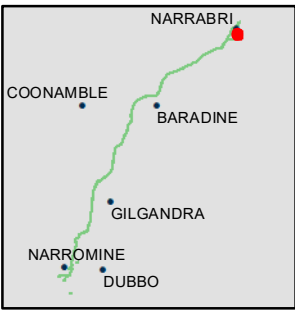
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Primary road

Local road

Watercourse
- Percentage Change in dv
- 0% - 10%

10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 2% AEP - Narrabri Regional

Appendix B - Figure 3.7.1

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

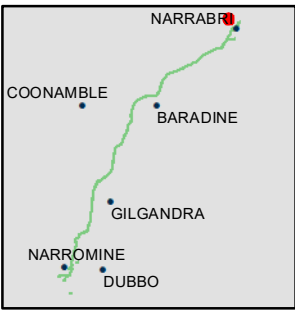
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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

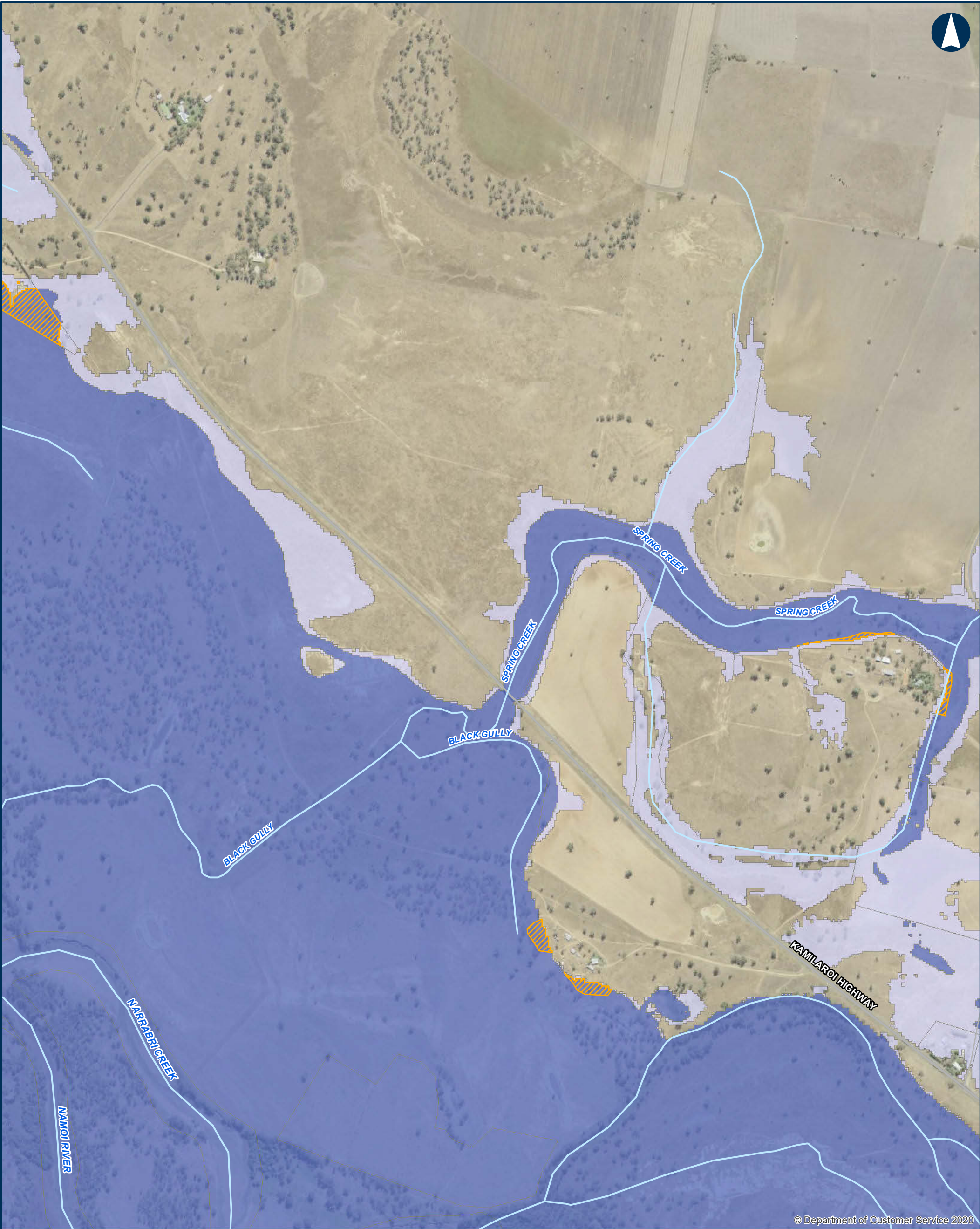
Primary road
Local road
Watercourse

Area of departure
Buildings and sealed surfaces, vd change >10%

Percentage Change in dv
0% - 10%
10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 2% AEP - Narrabri Regional

Appendix B - Figure 3.7.2

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

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

Primary road

Sub arterial road

Watercourse

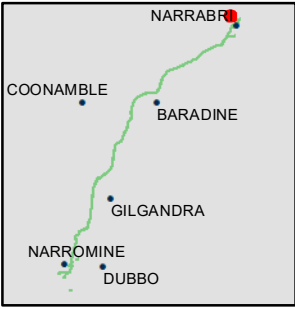
Area of departure

Buildings and sealed surfaces, dv change >10%

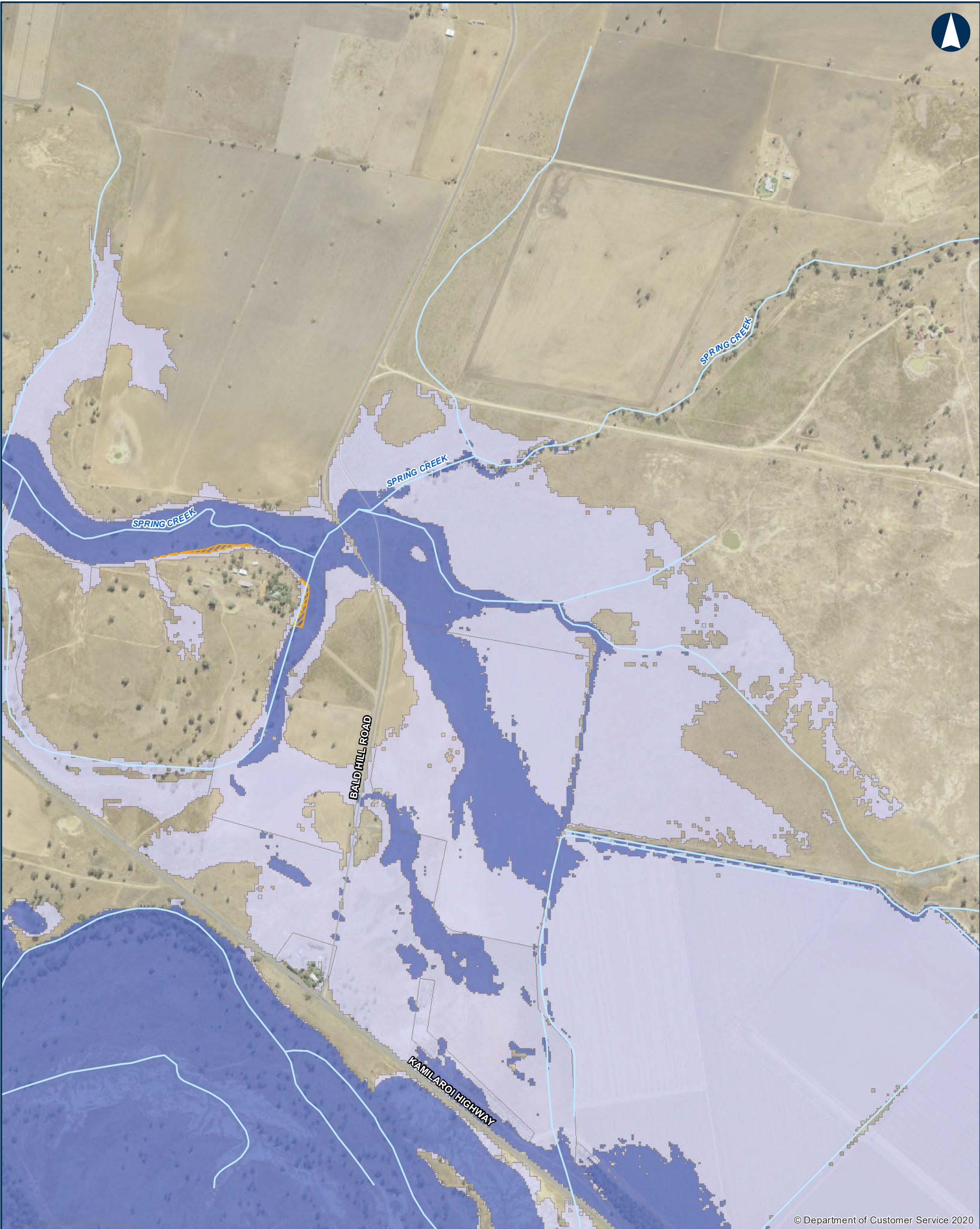
Percentage Change in dv

0% - 10%

10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 2% AEP - Narrabri Regional

Appendix B - Figure 3.7.3

0200400

Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

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

- Primary road

Sub arterial road

Local road

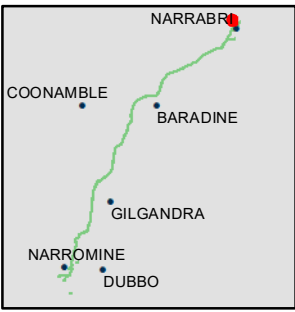
Watercourse
- Area of departure

Buildings and sealed surfaces, vd change >10%

Percentage Change in dv

0% - 10%

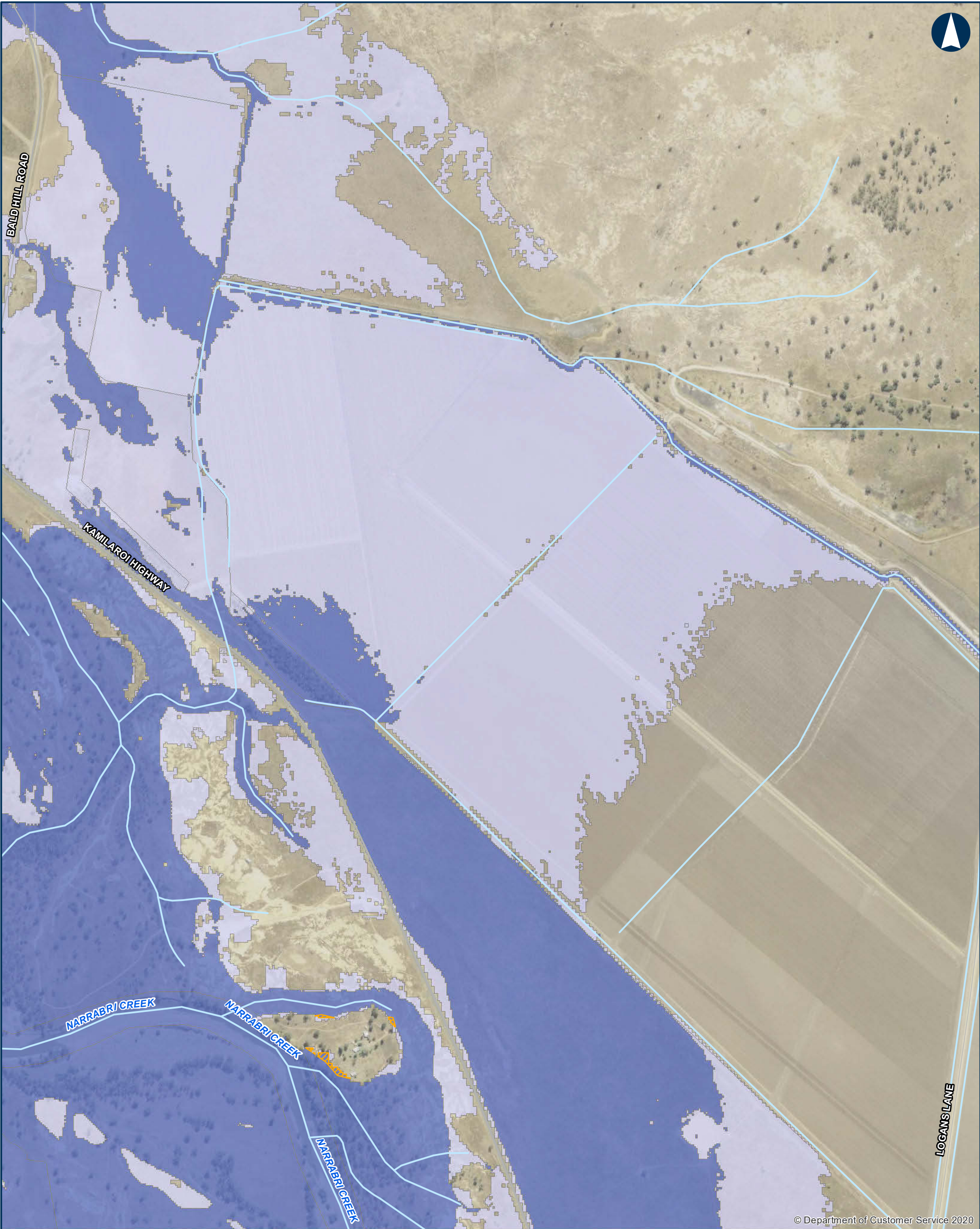
10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 2% AEP - Narrabri Regional

Appendix B - Figure 3.7.4

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Primary road

Sub arterial road

Local road

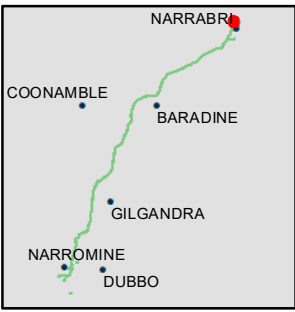
Watercourse
- Area of departure

Buildings and sealed surfaces, vd change >10%

Percentage Change in dv

0% - 10%

10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 2% AEP - Narrabri Regional

Appendix B - Figure 3.7.5

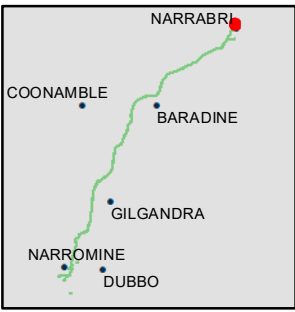
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Bridge
 - Culvert
 - Alignment
 - Primary road
 - Local road
 - Watercourse
 - The proposal
 - Rail Corridor
- Area of departure
- Buildings and sealed surfaces, vd change >10%
- Percentage Change in dv
- 0% - 10%
 - 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 2% AEP - Narrabri Regional

Appendix B - Figure 3.7.6

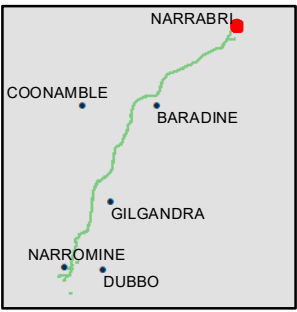
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Bridge
 - Culvert
 - Alignment
 - Primary road
 - Sub arterial road
 - Local road
 - Watercourse
 - The proposal
 - Rail Corridor
- Area of departure
- Buildings and sealed surfaces, vd change >10%
- Percentage Change in dv
- 0% - 10%
 - 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 2% AEP - Narrabri Regional

Appendix B - Figure 3.7.7

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

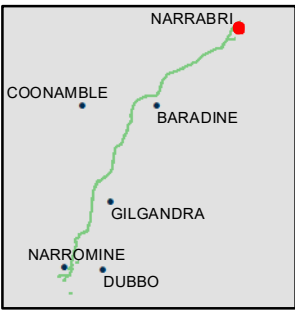
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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

— Sub arterial road
— Local road
— Watercourse

Area of departure
Buildings and sealed surfaces, vd change >10%

Percentage Change in dv
0% - 10%
10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 2% AEP - Narrabri Regional

Appendix B - Figure 3.7.8

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

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

Sub arterial road

Local road

Watercourse

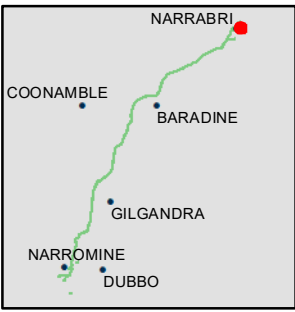
Area of departure

Buildings and sealed surfaces, vd change >10%

Percentage Change in dv

0% - 10%

10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 2% AEP - Narrabri Regional

Appendix B - Figure 3.7.9

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

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

Sub arterial road

Local road

Watercourse

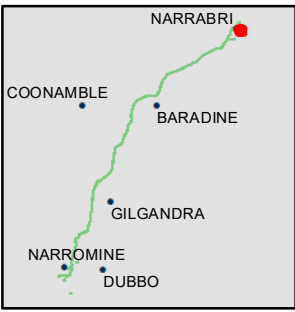
Area of departure

Buildings and sealed surfaces, vd change >10%

Percentage Change in dv

0% - 10%

10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 2% AEP - Narrabri Regional

Appendix B - Figure 3.7.10

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Sub arterial road

— Local road

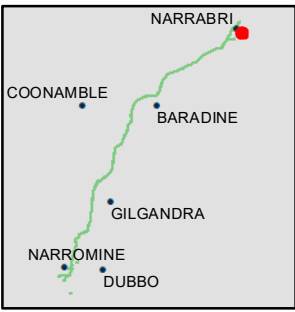
— Watercourse
- Area of departure**

Buildings and sealed surfaces, vd change >10%

Percentage Change in dv

0% - 10%

10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 2% AEP - Narrabri Regional

Appendix B - Figure 3.7.11

0200400

Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

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

Sub arterial road

Local road

Watercourse

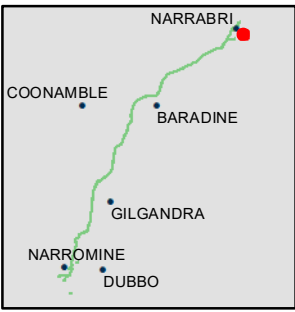
Area of departure

Buildings and sealed surfaces, vd change >10%

Percentage Change in dv

0% - 10%

10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 2% AEP - Narrabri Regional

Appendix B - Figure 3.7.12

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

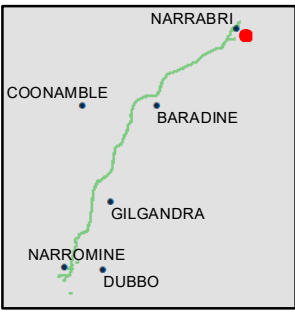
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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

Sub arterial road
Watercourse

Area of departure
Buildings and sealed surfaces, vd change >10%

Percentage Change in dv
0% - 10%
10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 2% AEP - Narrabri Regional

Appendix B - Figure 3.7.13

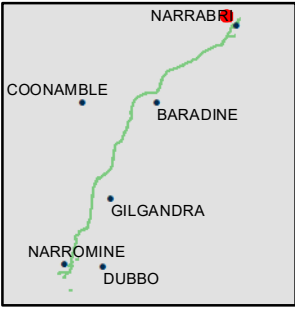
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Local road
Watercourse
- Area of departure**
Buildings and sealed surfaces, vd change >10%
- Percentage Change in dv**
0% - 10%
10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 2% AEP - Narrabri Regional

Appendix B - Figure 3.7.14

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

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

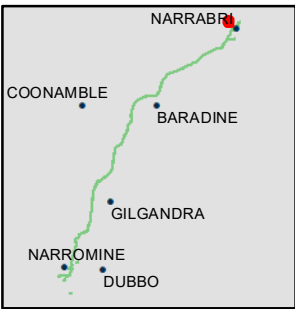
Primary road

Watercourse

Percentage Change in dv

0% - 10%

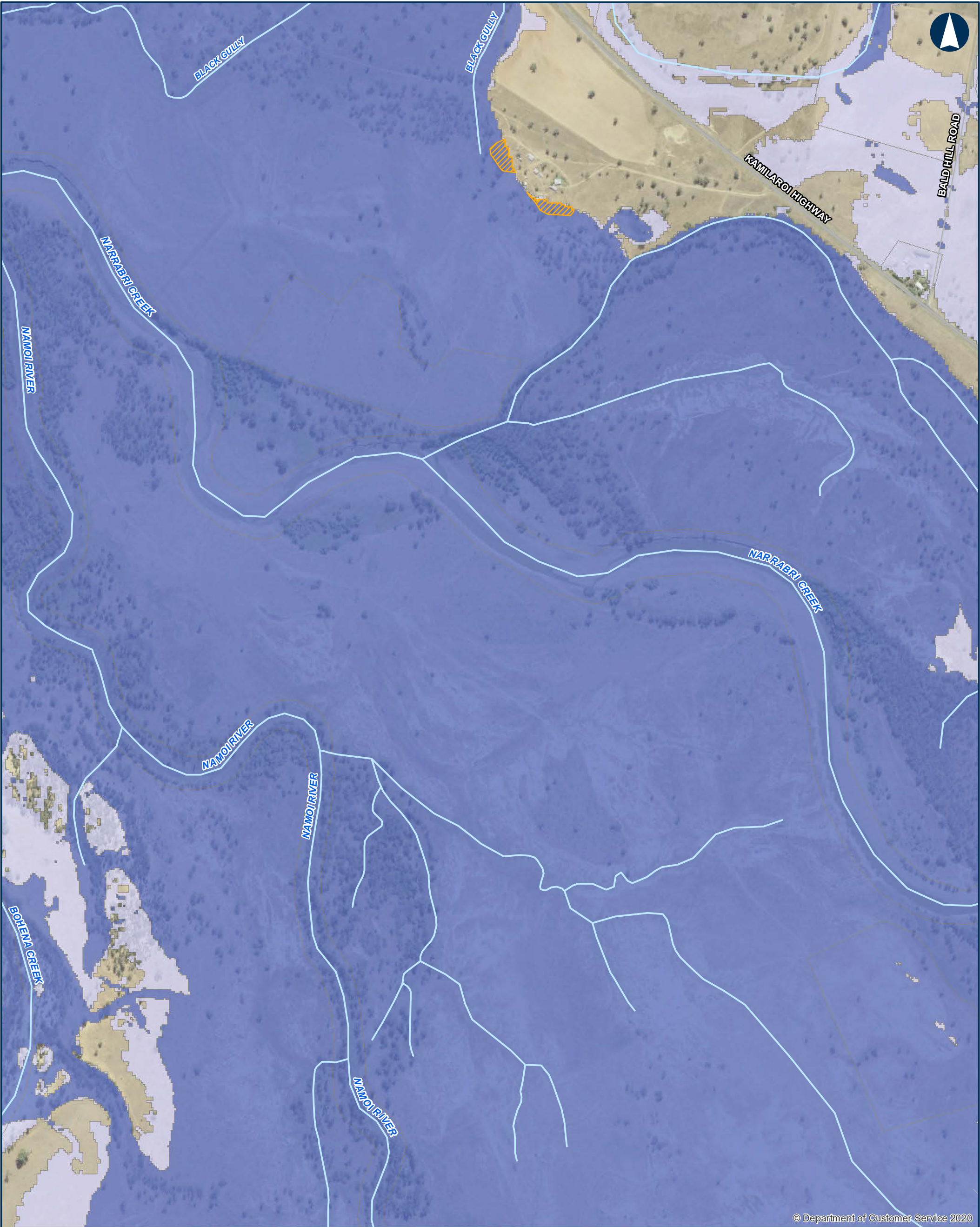
10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 2% AEP - Narrabri Regional

Appendix B - Figure 3.7.15

0200400

Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

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

Primary road

Sub arterial road

Local road

Watercourse

Area of departure

Buildings and sealed surfaces, vd change >10%

Percentage Change in dv

0% - 10%

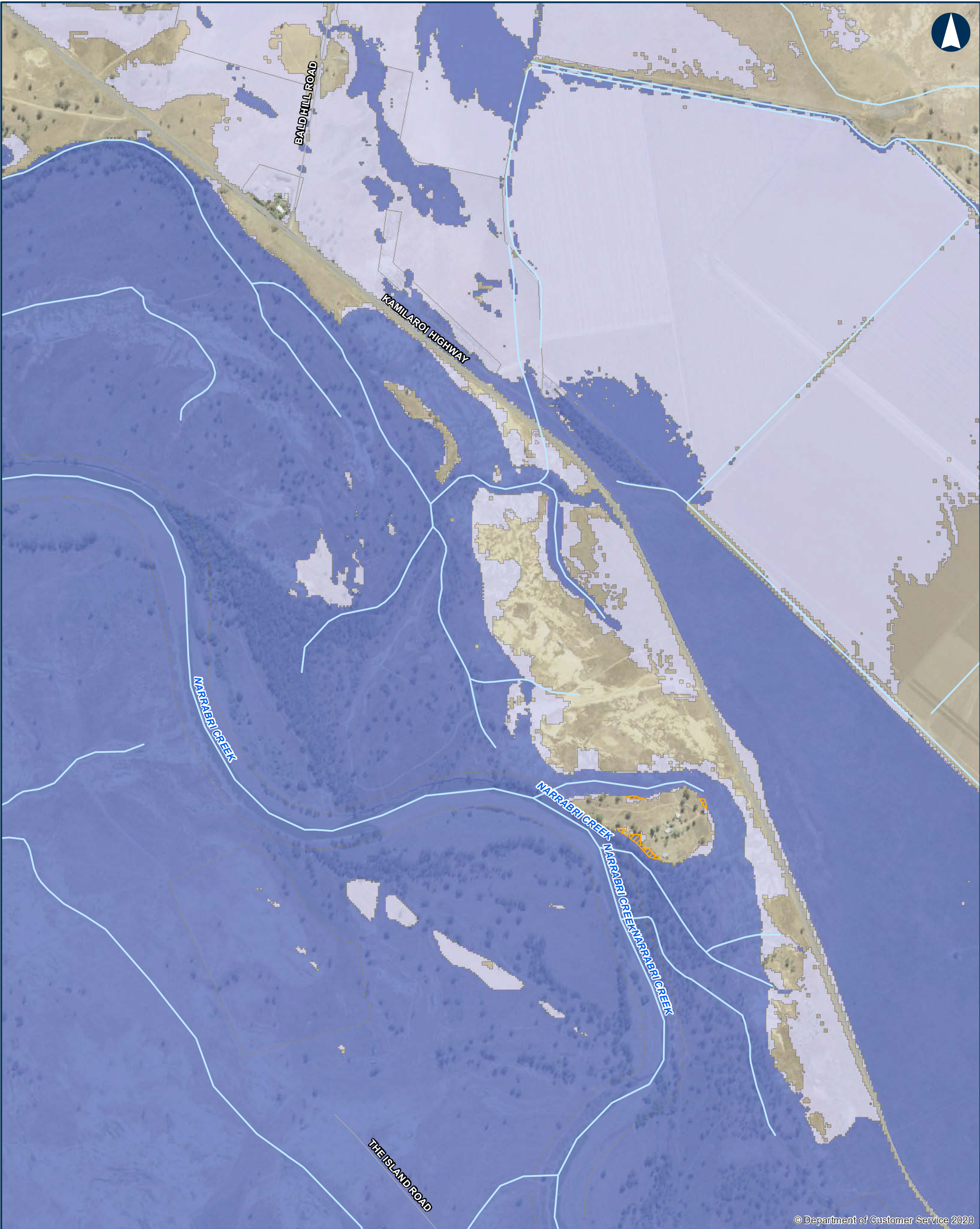
10% - 20%

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N:\AU\Newcastle\Projects\22\19593\GIS\GIS_2500_N2N_v2\Maps\Deliverables_SPIR\EIS\Flooding_Hydrology\Appendices\2500_EISFWPAPP136_QDL_Regional_Hazard_2pc_revA.mxd



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NARROMINE TO NARRABRI

QDL departures - Hazard - 2% AEP - Narrabri Regional

Appendix B - Figure 3.7.16

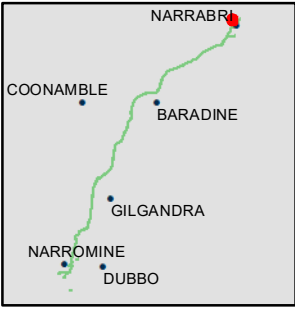
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Primary road
 - Sub arterial road
 - Local road
 - Watercourse
- Area of departure**
- Buildings and sealed surfaces, vd change >10%
- Percentage Change in dv**
- 0% - 10%
 - 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 2% AEP - Narrabri Regional

Appendix B - Figure 3.7.17

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Bridge
 - Alignment
 - Primary road
 - Local road
 - Watercourse
 - The proposal
 - Rail Corridor
- Area of departure**
- Buildings and sealed surfaces, vd change >10%
- Percentage Change in dv**
- 0% - 10%
 - 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 2% AEP - Narrabri Regional

Appendix B - Figure 3.7.18

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Bridge
 - Culvert
 - Alignment
 - Primary road
 - Local road
 - Watercourse
 - The proposal
 - Rail Corridor
- Area of departure**
- Buildings and sealed surfaces, vd change >10%
- Percentage Change in dv**
- 0% - 10%
 - 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 2% AEP - Narrabri Regional

Appendix B - Figure 3.7.19

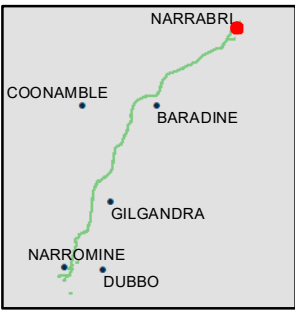
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Primary road
Sub arterial road
Local road
Watercourse
- Area of departure**
Buildings and sealed surfaces, vd change >10%
- Percentage Change in dv**
0% - 10%
10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 2% AEP - Narrabri Regional

Appendix B - Figure 3.7.20

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

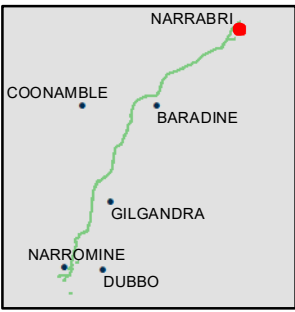
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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

Sub arterial road
Local road
Watercourse

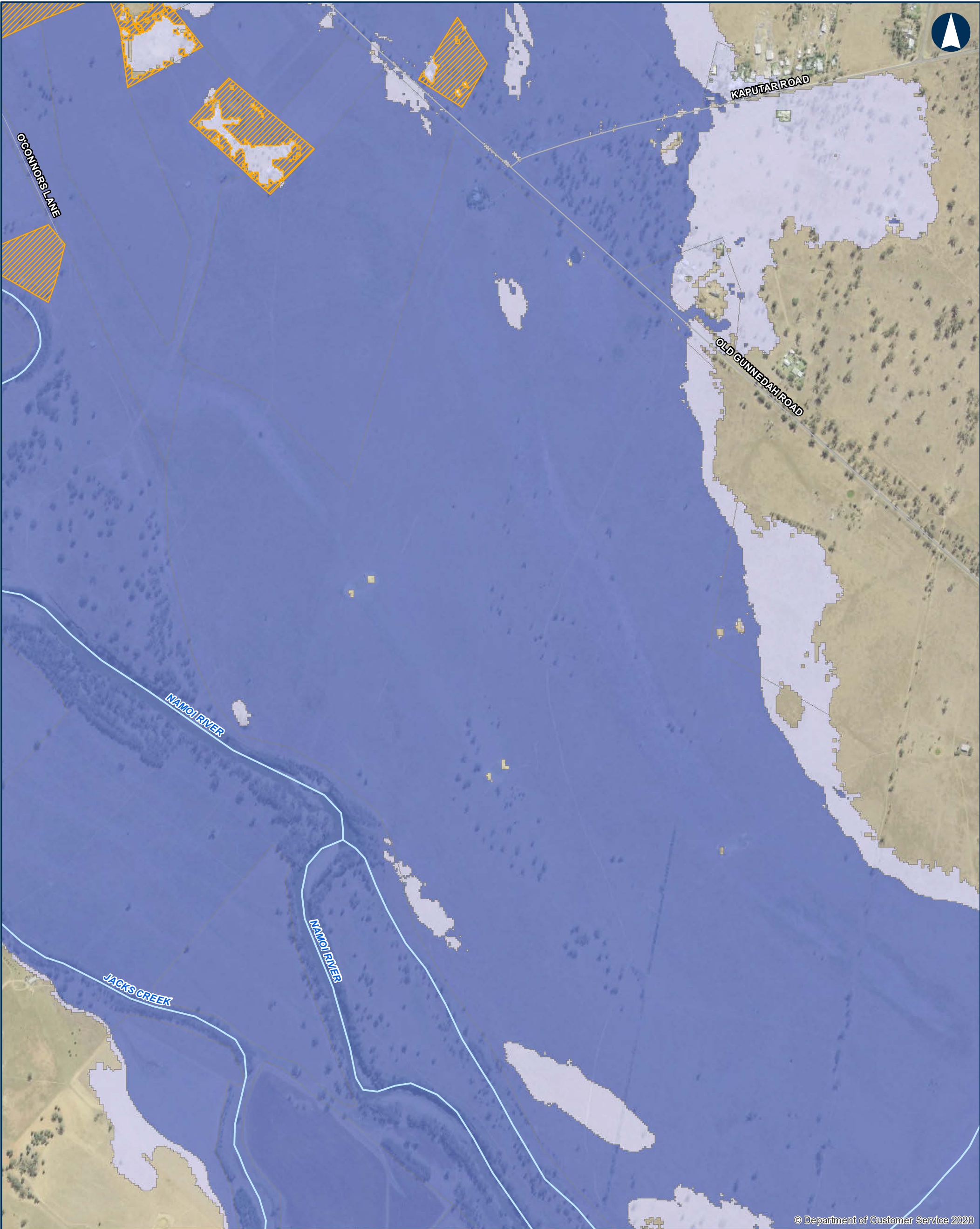
Area of departure
Buildings and sealed surfaces, vd change >10%

Percentage Change in dv
0% - 10%
10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 2% AEP - Narrabri Regional

Appendix B - Figure 3.7.21

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

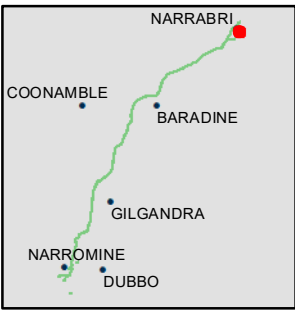
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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

Sub arterial road
Local road
Watercourse

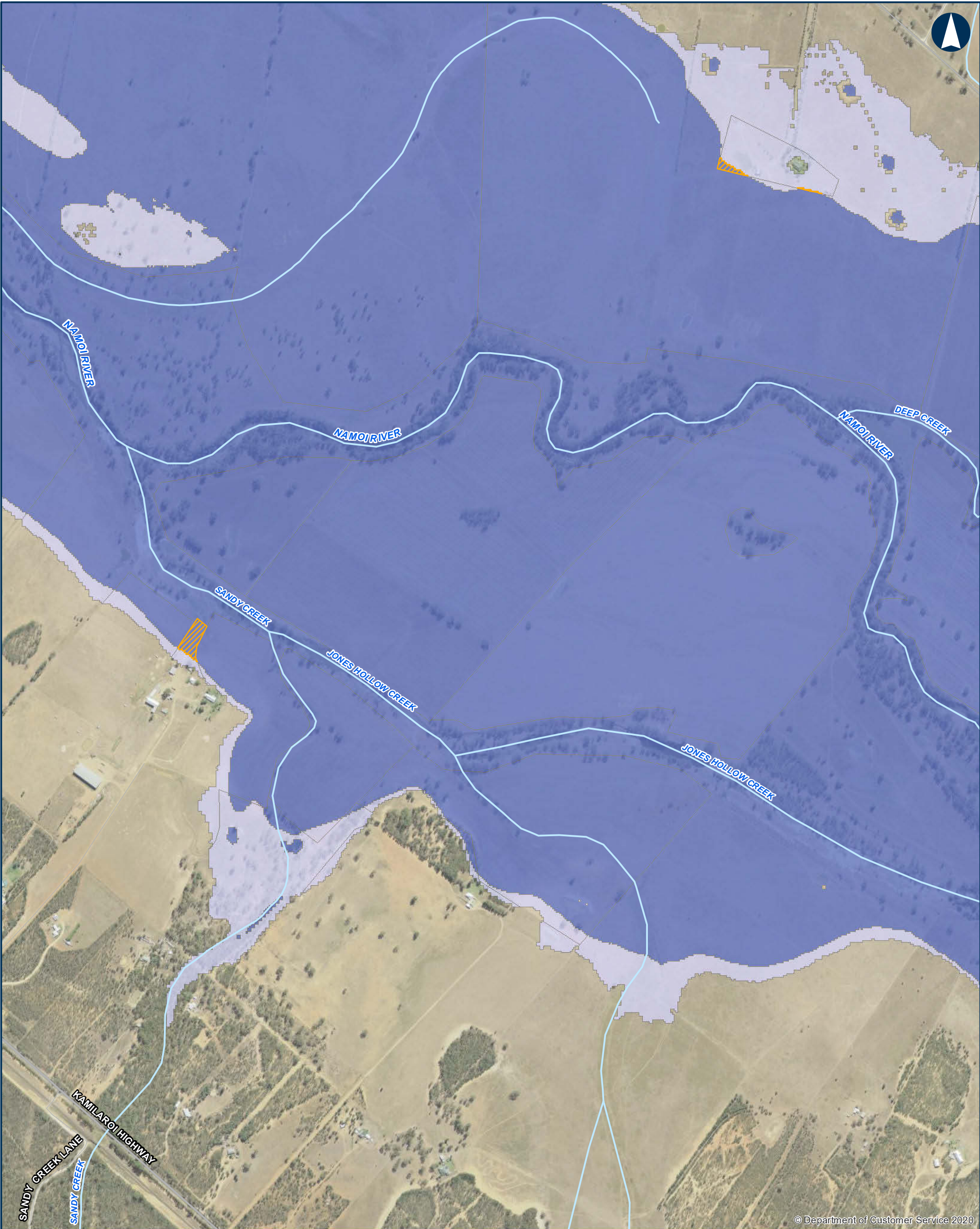
Area of departure
Buildings and sealed surfaces, vd change >10%

Percentage Change in dv
0% - 10%
10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 2% AEP - Narrabri Regional

Appendix B - Figure 3.7.22

0200400

Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

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

Primary road

Sub arterial road

Local road

Watercourse

Area of departure

Buildings and sealed surfaces, vd change >10%

Percentage Change in dv

0% - 10%

10% - 20%

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N:\AU\Newcastle\Projects\22\19593\GIS\GIS_2500_N2N_v2\Maps\Deliverables_SPIR\EIS\Flooding_Hydrology\Appendices\2500_EISFWPAPP136_QDL_Regional_Hazard_2pc_revA.mxd



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NARROMINE TO NARRABRI

QDL departures - Hazard - 2% AEP - Narrabri Regional

Appendix B - Figure 3.7.23

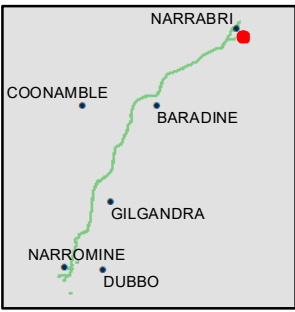
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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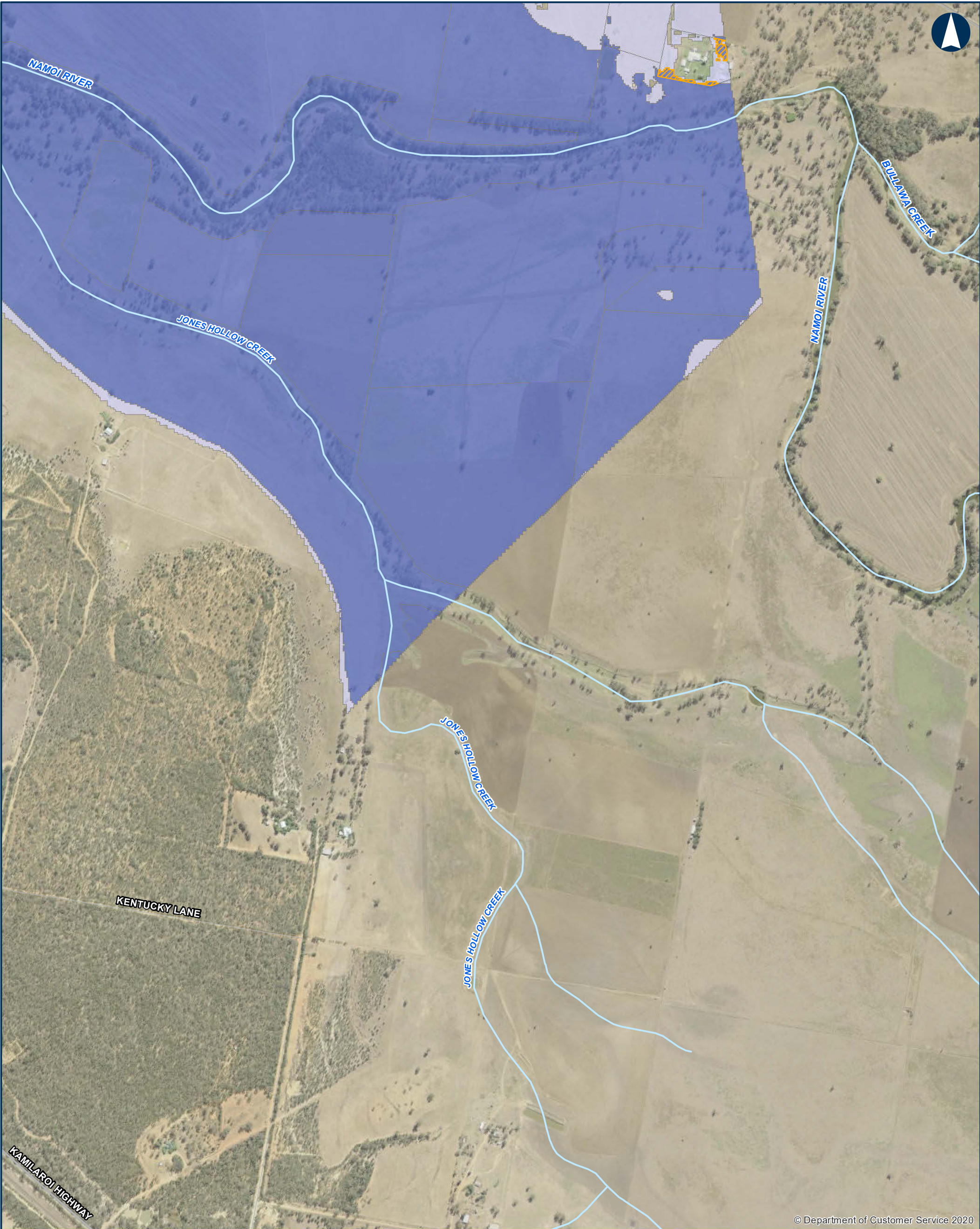
Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Primary road
- Sub arterial road
- Watercourse
- Percentage Change in dv
 - 0% - 10%
 - 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 2% AEP - Narrabri Regional

Appendix B - Figure 3.7.24

0200400

Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

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

Primary road

Sub arterial road

Local road

Watercourse

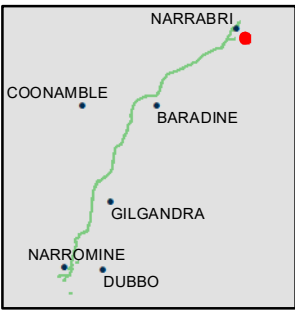
Area of departure

Buildings and sealed surfaces, vd change >10%

Percentage Change in dv

0% - 10%

10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 2% AEP - Narrabri Regional

Appendix B - Figure 3.7.25

0200400

Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

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

Local road

Watercourse

Area of departure

Buildings and sealed surfaces, vd change >10%

Percentage Change in dv

0% - 10%

10% - 20%

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NARROMINE TO NARRABRI

QDL departures - Hazard - 2% AEP - Narrabri Regional

Appendix B - Figure 3.7.26

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

Local road
Watercourse

Area of departure
Buildings and sealed surfaces, vd change >10%
Percentage Change in dv
0% - 10%
10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 2% AEP - Narrabri Regional

Appendix B - Figure 3.7.27

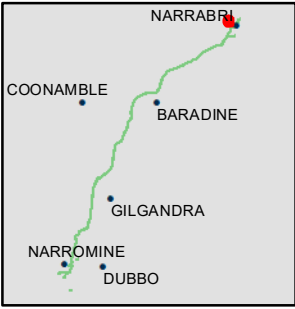
0 200 400
Metres

Coordinate System: GDA 1994 MGA Zone 55

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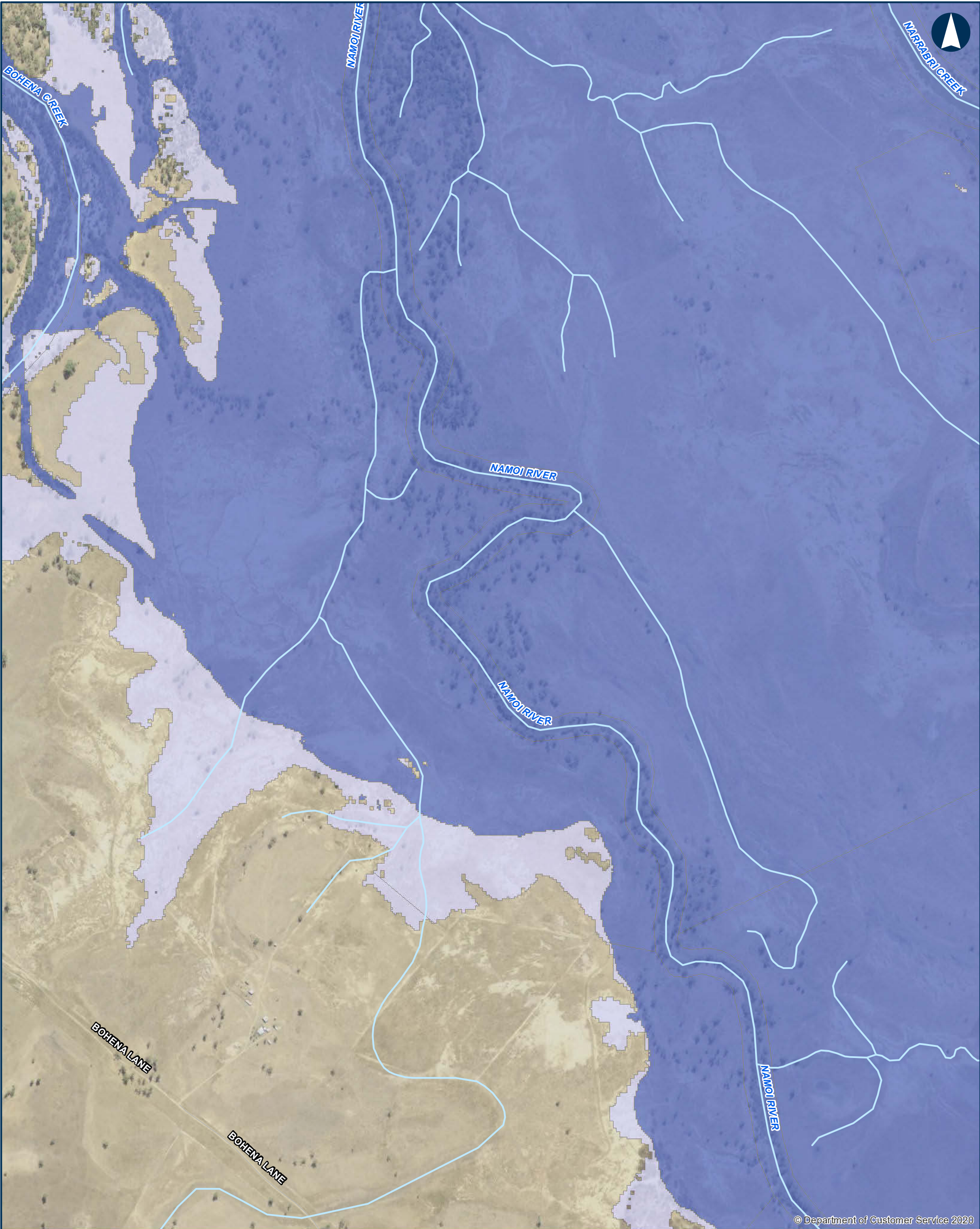
Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

Watercourse
Percentage Change in dv
0% - 10%
10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 2% AEP - Narrabri Regional

Appendix B - Figure 3.7.28

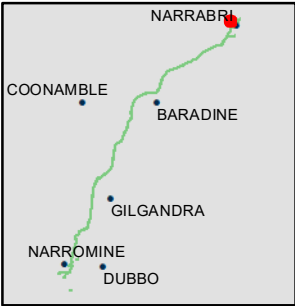
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Local road
- Watercourse
- Percentage Change in dv
 - 0% - 10%
 - 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 2% AEP - Narrabri Regional

Appendix B - Figure 3.7.29

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

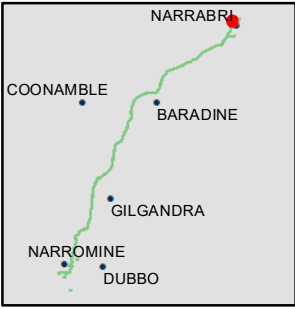
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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

Primary road
Local road
Watercourse

Area of departure
Buildings and sealed surfaces, vd change >10%

Percentage Change in dv
0% - 10%
10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 2% AEP - Narrabri Regional

Appendix B - Figure 3.7.30

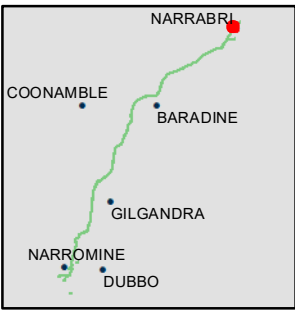
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Bridge
 - Alignment
 - Primary road
 - Sub arterial road
 - Local road
 - Watercourse
 - The proposal
 - Rail Corridor
- Area of departure
- Buildings and sealed surfaces, vd change >10%
- Percentage Change in dv
- 0% - 10%
 - 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 2% AEP - Narrabri Regional

Appendix B - Figure 3.7.31

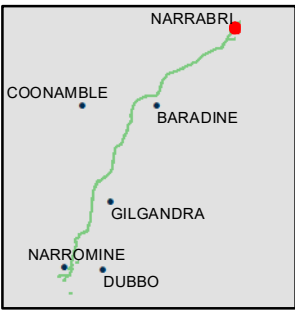
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Bridge
 - Alignment
 - Primary road
 - Sub arterial road
 - Local road
 - Watercourse
 - The proposal
 - Rail Corridor
- Area of departure
- Buildings and sealed surfaces, vd change >10%
- Percentage Change in dv
- 0% - 10%
 - 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 2% AEP - Narrabri Regional

Appendix B - Figure 3.7.32

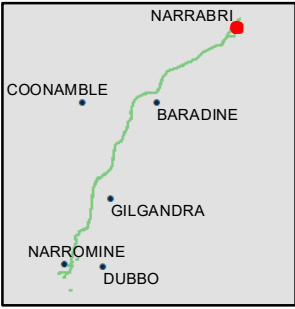
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Coordinate System: GDA 1994 MGA Zone 55

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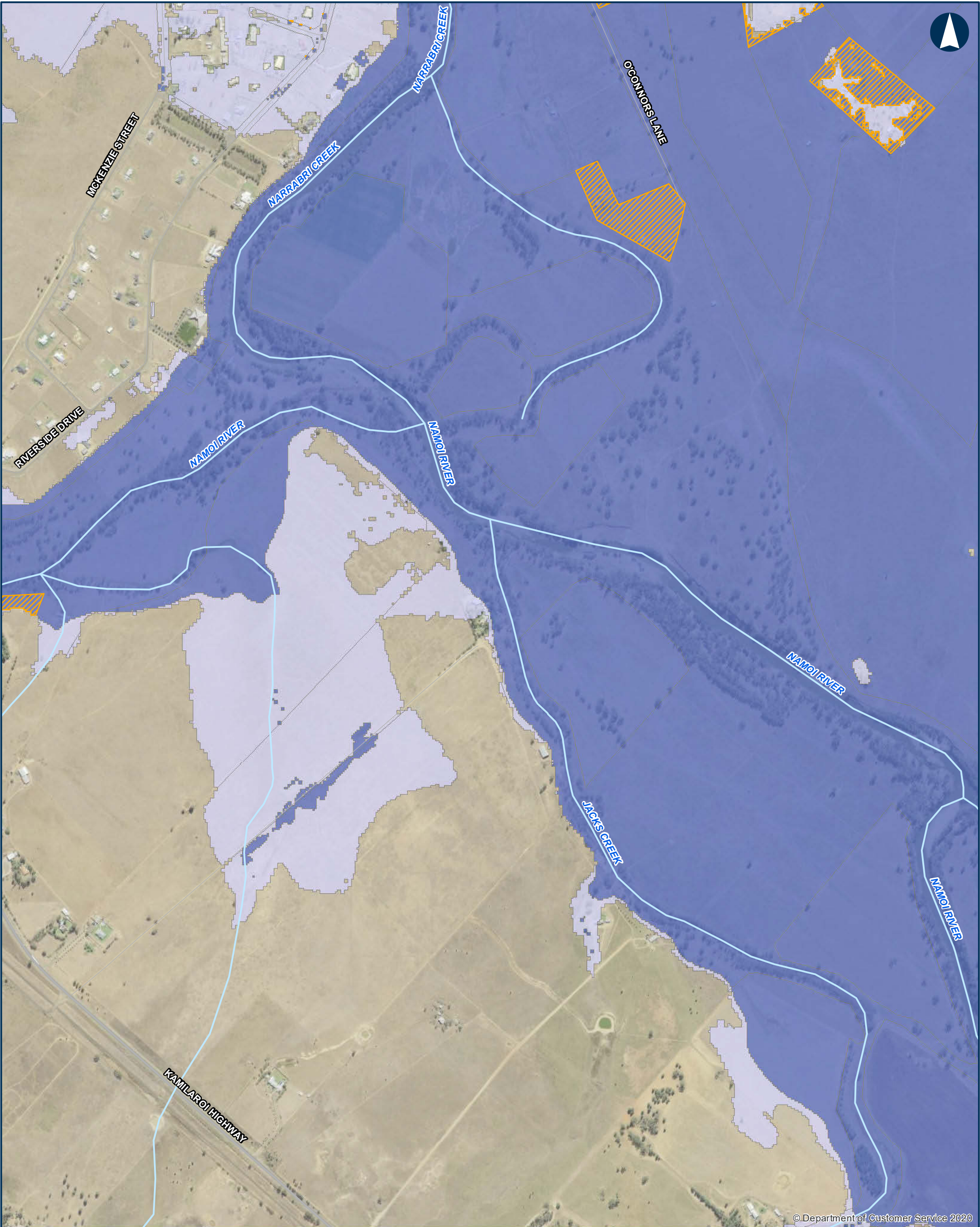
Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Primary road
 - Sub arterial road
 - Local road
 - Watercourse
- Area of departure**
- Buildings and sealed surfaces, vd change >10%
- Percentage Change in dv**
- 0% - 10%
 - 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 2% AEP - Narrabri Regional

Appendix B - Figure 3.7.33

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

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

Primary road

Local road

Watercourse

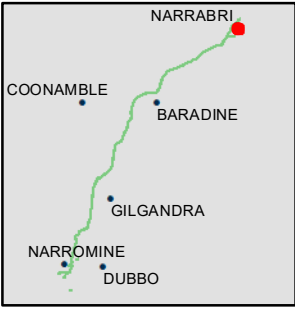
Area of departure

Buildings and sealed surfaces, vd change >10%

Percentage Change in dv

0% - 10%

10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 2% AEP - Narrabri Regional

Appendix B - Figure 3.7.34

0200400

Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

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

Primary road

Local road

Watercourse

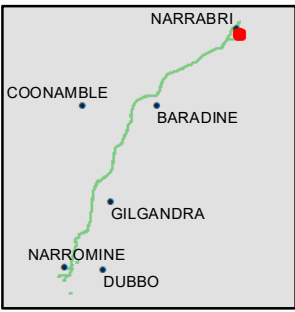
Area of departure

Buildings and sealed surfaces, vd change >10%

Percentage Change in dv

0% - 10%

10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 2% AEP - Narrabri Regional

Appendix B - Figure 3.7.35

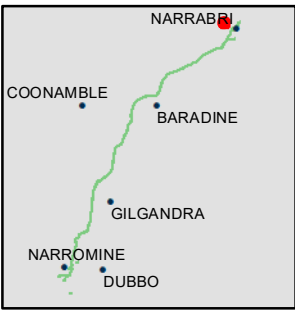
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Coordinate System: GDA 1994 MGA Zone 55

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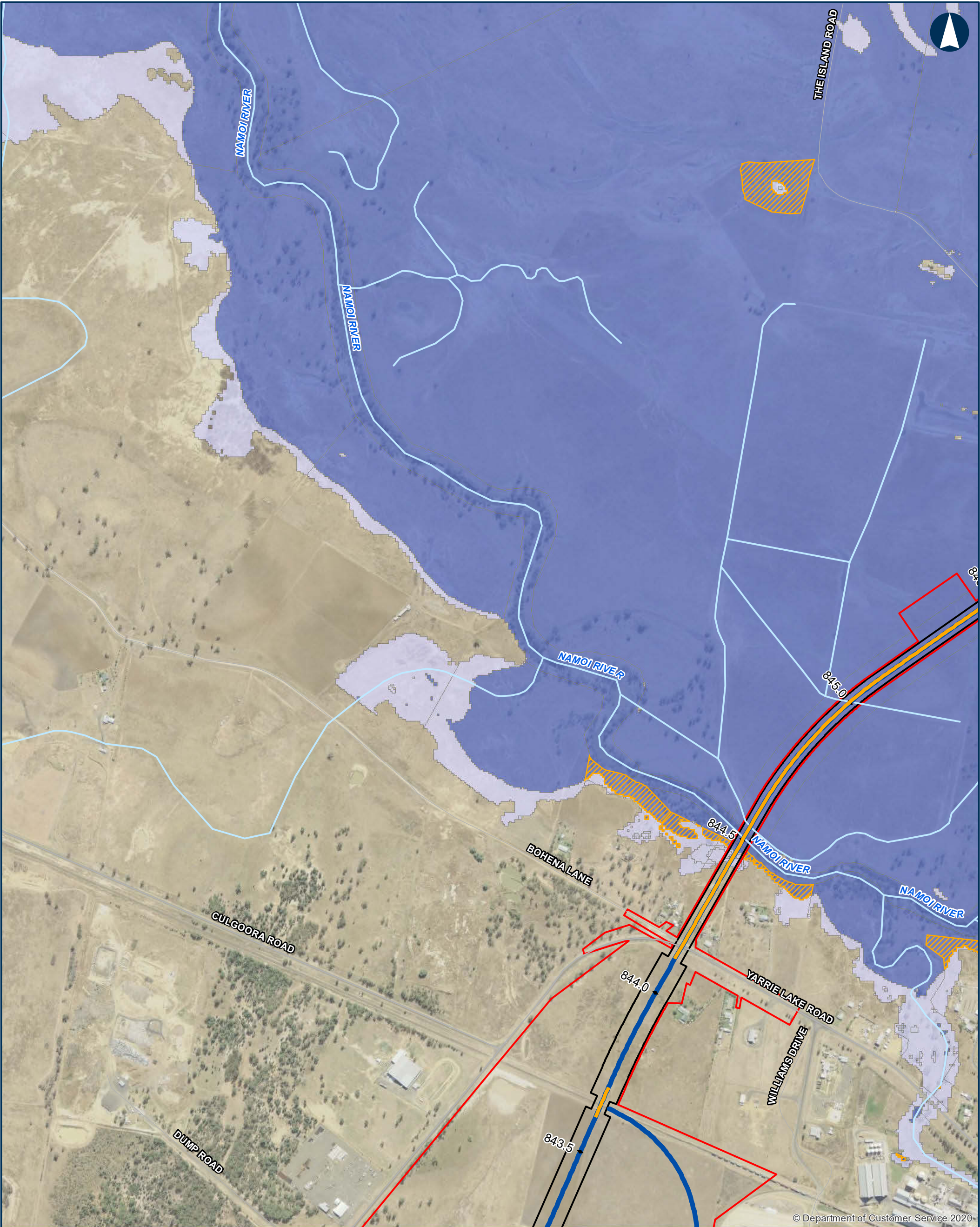
Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

Local road
Watercourse
Percentage Change in dv
0% - 10%
10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 2% AEP - Narrabri Regional

Appendix B - Figure 3.7.36

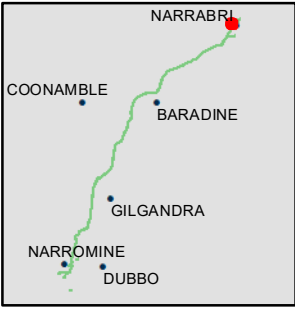
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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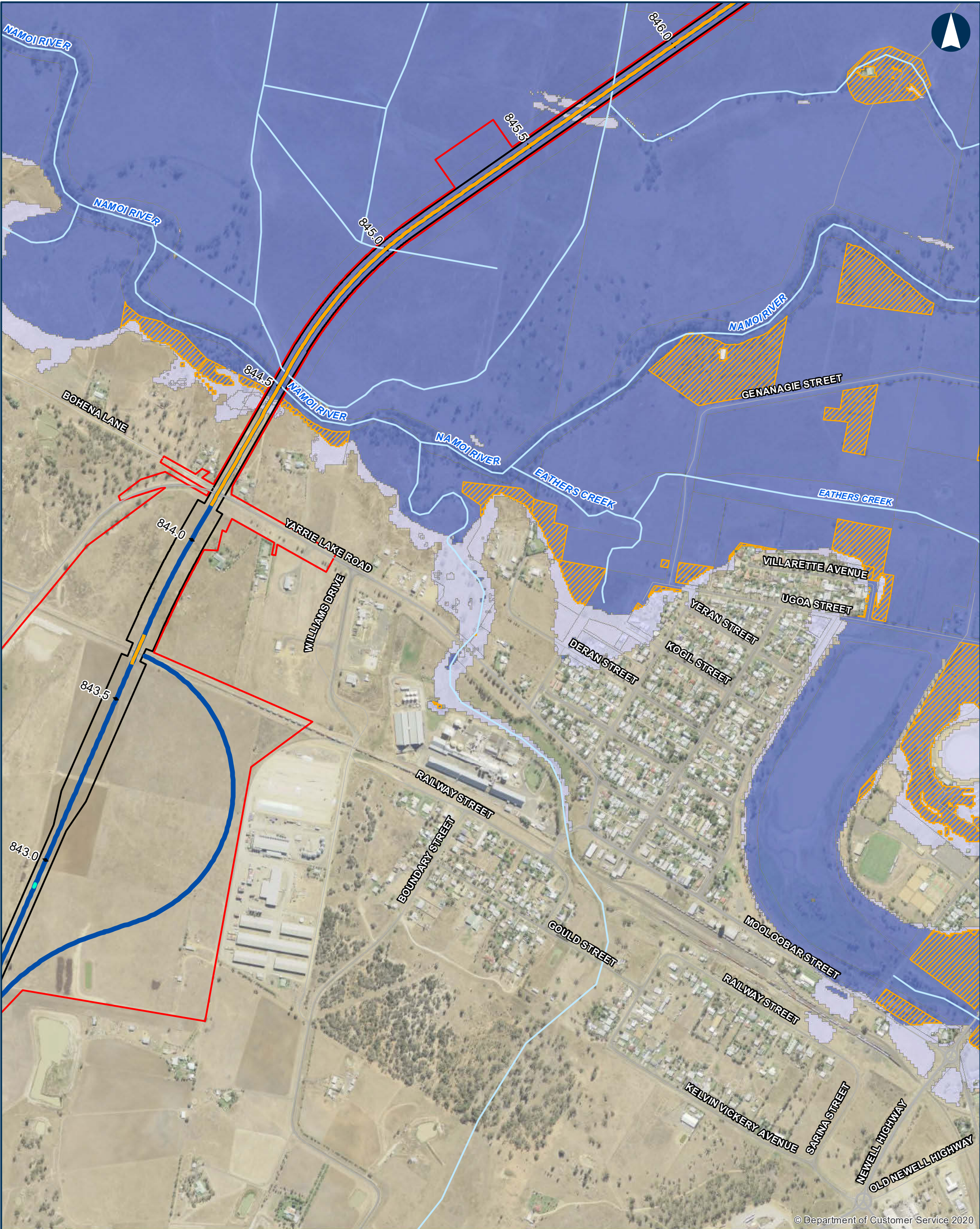
Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Bridge
 - Alignment
 - Sub arterial road
 - Local road
 - Watercourse
 - The proposal
 - Rail Corridor
- Area of departure**
- Buildings and sealed surfaces, vd change >10%
- Percentage Change in dv**
- 0% - 10%
 - 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 2% AEP - Narrabri Regional

Appendix B - Figure 3.7.37

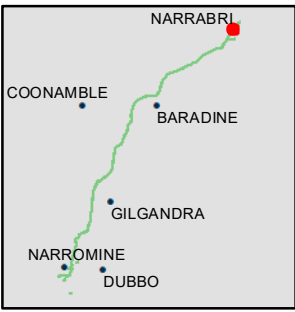
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Bridge
 - Culvert
 - Alignment
 - Primary road
 - Sub arterial road
 - Local road
 - Watercourse
 - The proposal
 - Rail Corridor
- Area of departure
- Buildings and sealed surfaces, vd change >10%
- Percentage Change in dv
- 0% - 10%
 - 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 2% AEP - Narrabri Regional

Appendix B - Figure 3.7.38

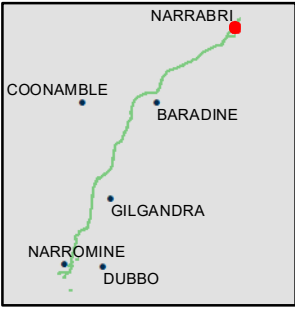
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Primary road
 - Sub arterial road
 - Local road
 - Watercourse
- Area of departure**
- Buildings and sealed surfaces, v.d. change >10%
- Percentage Change in dv**
- 0% - 10%
 - 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 2% AEP - Narrabri Regional

Appendix B - Figure 3.7.39

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Primary road

Local road

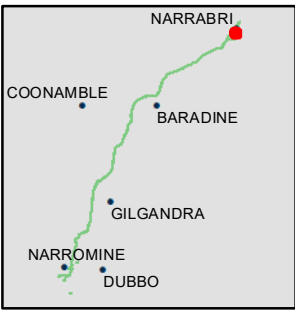
Watercourse
- Area of departure

Buildings and sealed surfaces, vd change >10%

Percentage Change in dv

0% - 10%

10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 2% AEP - Narrabri Regional

Appendix B - Figure 3.7.40

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

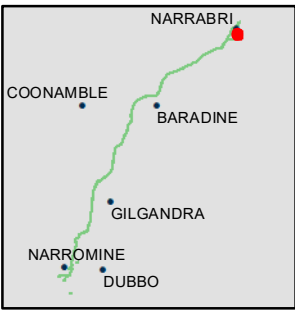
ARTC makes no representation or warranty and assumes no duty of care or other responsibility to any party as to the completeness, accuracy or suitability of the information contained in this GIS map. The GIS map has been prepared from material provided to ARTC by an external source and ARTC has not taken any steps to verify the completeness, accuracy or suitability of that material. ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information contained within this GIS map.

Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

Primary road
Local road
Watercourse

Area of departure
Buildings and sealed surfaces, vd change >10%

Percentage Change in dv
0% - 10%
10% - 20%



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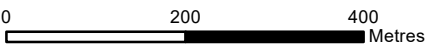


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NARROMINE TO NARRABRI

QDL departures - Hazard - 1% AEP with blockage - Narrabri Regional

Appendix B - Figure 3.8.1

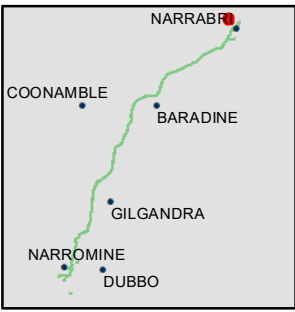


Coordinate System: GDA 1994 MGA Zone 55

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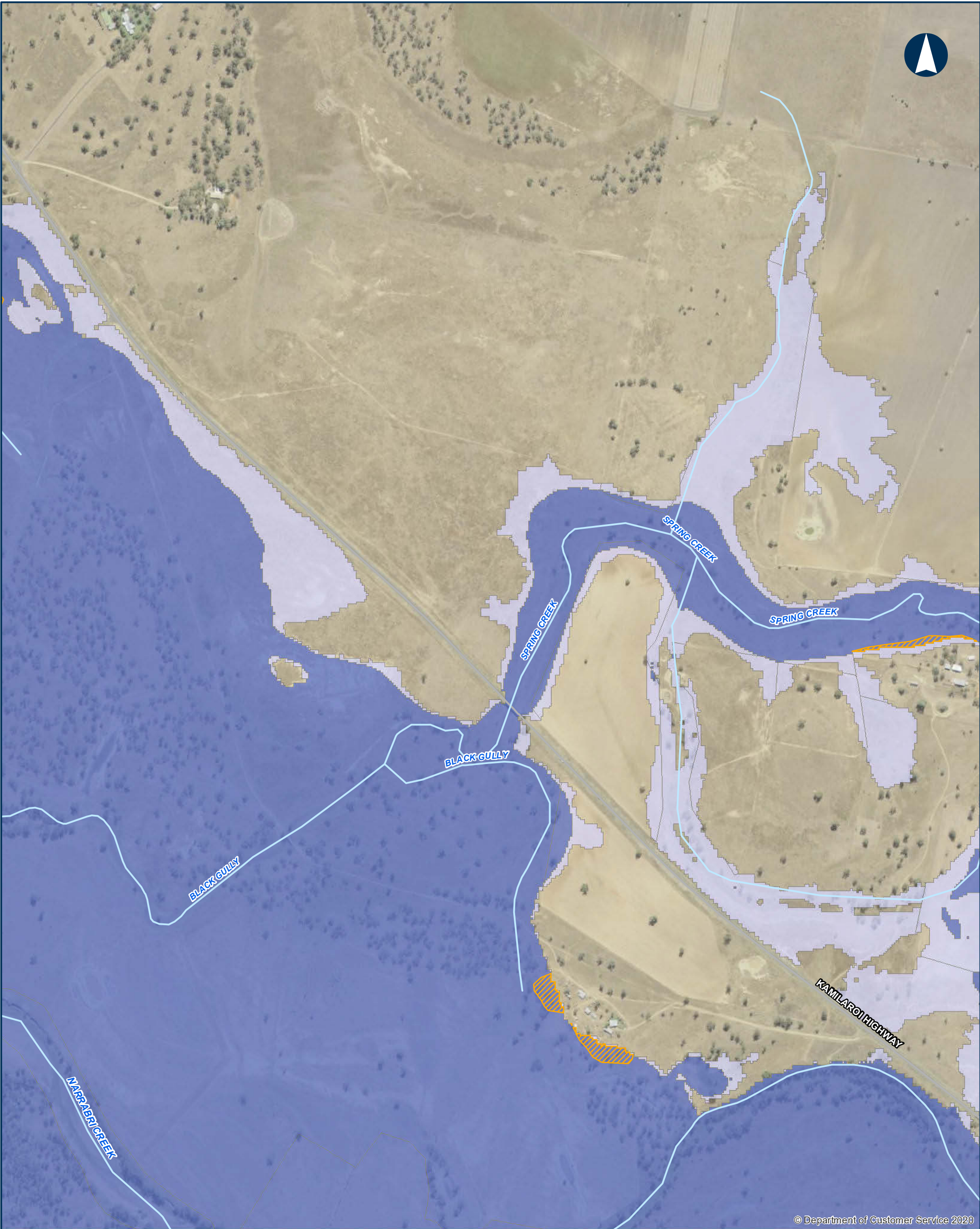
Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:8,480
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Primary road
- Local road
- Watercourse
- Area of departure
- Buildings and sealed surfaces, vd change >10%
- Percentage Change in dv
- 0% - 10%
- 10% - 20%



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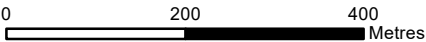


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NARROMINE TO NARRABRI

QDL departures - Hazard - 1% AEP with blockage - Narrabri Regional

Appendix B - Figure 3.8.2

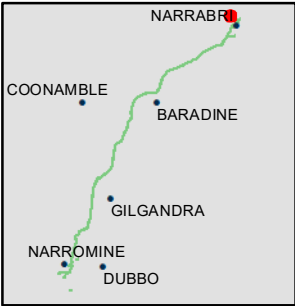


Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:8,480
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Primary road
- Watercourse
- Area of departure
- Buildings and sealed surfaces, vd change >10%
- Percentage Change in dv
- 0% - 10%
- 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 1% AEP with blockage - Narrabri Regional

Appendix B - Figure 3.8.3

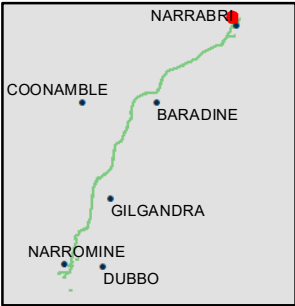
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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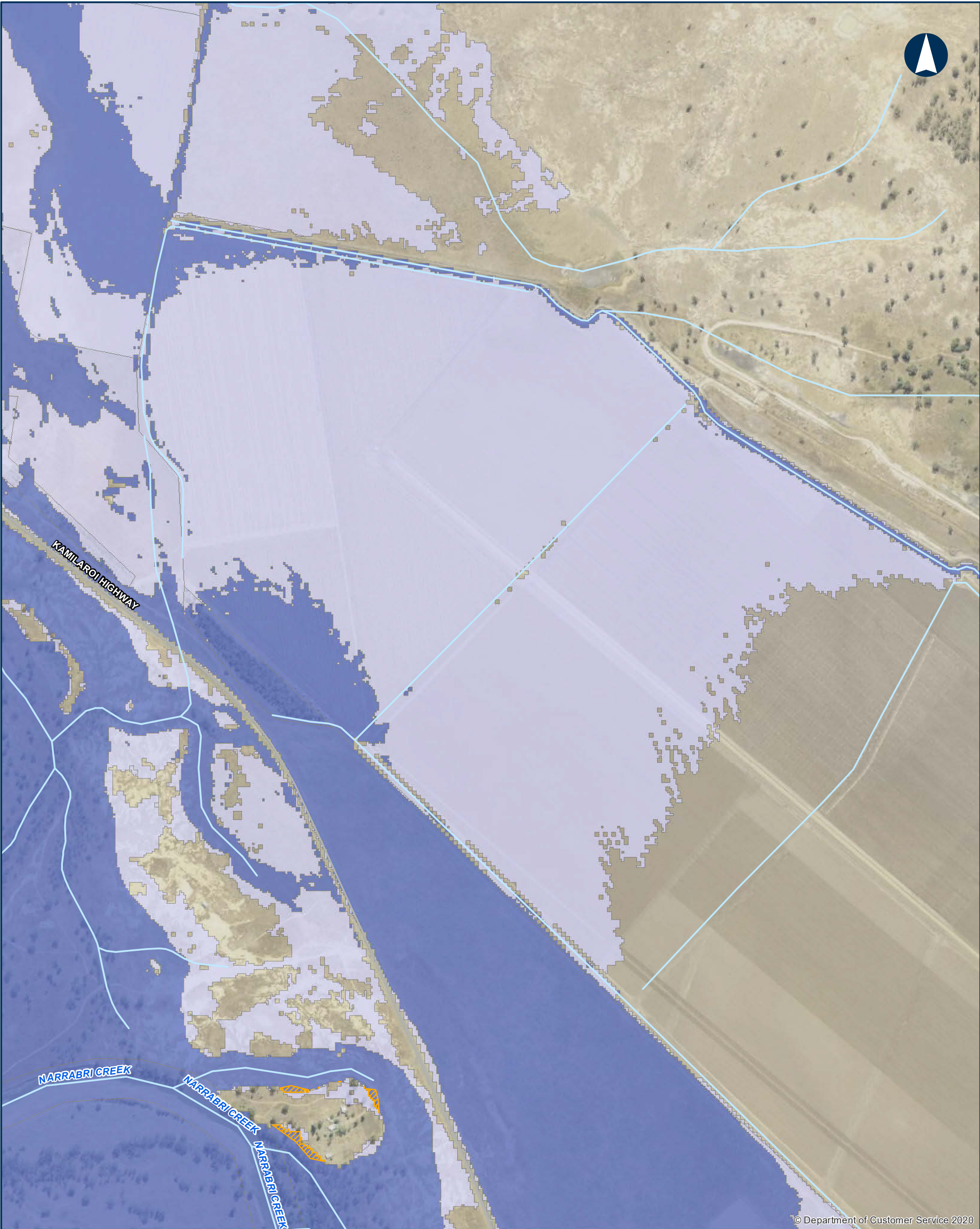
Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:8,480
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Primary road
- Sub arterial road
- Local road
- Watercourse
- Area of departure**
- Buildings and sealed surfaces, vd change >10%
- Percentage Change in dv**
- 0% - 10%
- 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 1% AEP with blockage - Narrabri Regional

Appendix B - Figure 3.8.4

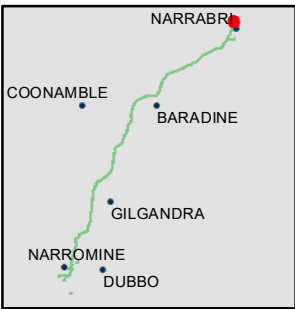
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:8,480
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Primary road
- Watercourse
- Area of departure
- Buildings and sealed surfaces, vd change >10%
- Percentage Change in dv
- 0% - 10%
- 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 1% AEP with blockage - Narrabri Regional

Appendix B - Figure 3.8.5

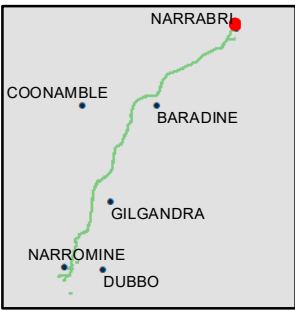
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:8,480
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Bridge
- Culvert
- TfNSW newly flooded roads
- Alignment
- Primary road
- Local road
- Watercourse
- The proposal
- Rail Corridor
- Area of departure
- Buildings and sealed surfaces, vd change >10%
- Percentage Change in dv
- 0% - 10%
- 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 1% AEP with blockage - Narrabri Regional

Appendix B - Figure 3.8.6

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:8,480
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Bridge
- Culvert
- Alignment
- Primary road
- Sub arterial road
- Local road
- Watercourse
- The proposal
- Rail Corridor
- Area of departure
- Buildings and sealed surfaces, vd change >10%
- Percentage Change in dv
- 0% - 10%
- 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 1% AEP with blockage - Narrabri Regional

Appendix B - Figure 3.8.7

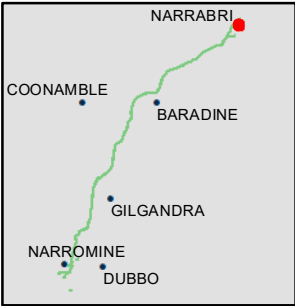
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Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:8,480
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Local road
- Watercourse
- Area of departure
- Buildings and sealed surfaces, vd change >10%
- Percentage Change in dv
- 0% - 10%
- 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 1% AEP with blockage - Narrabri Regional

Appendix B - Figure 3.8.8

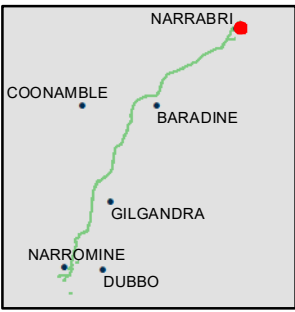
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:8,480
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

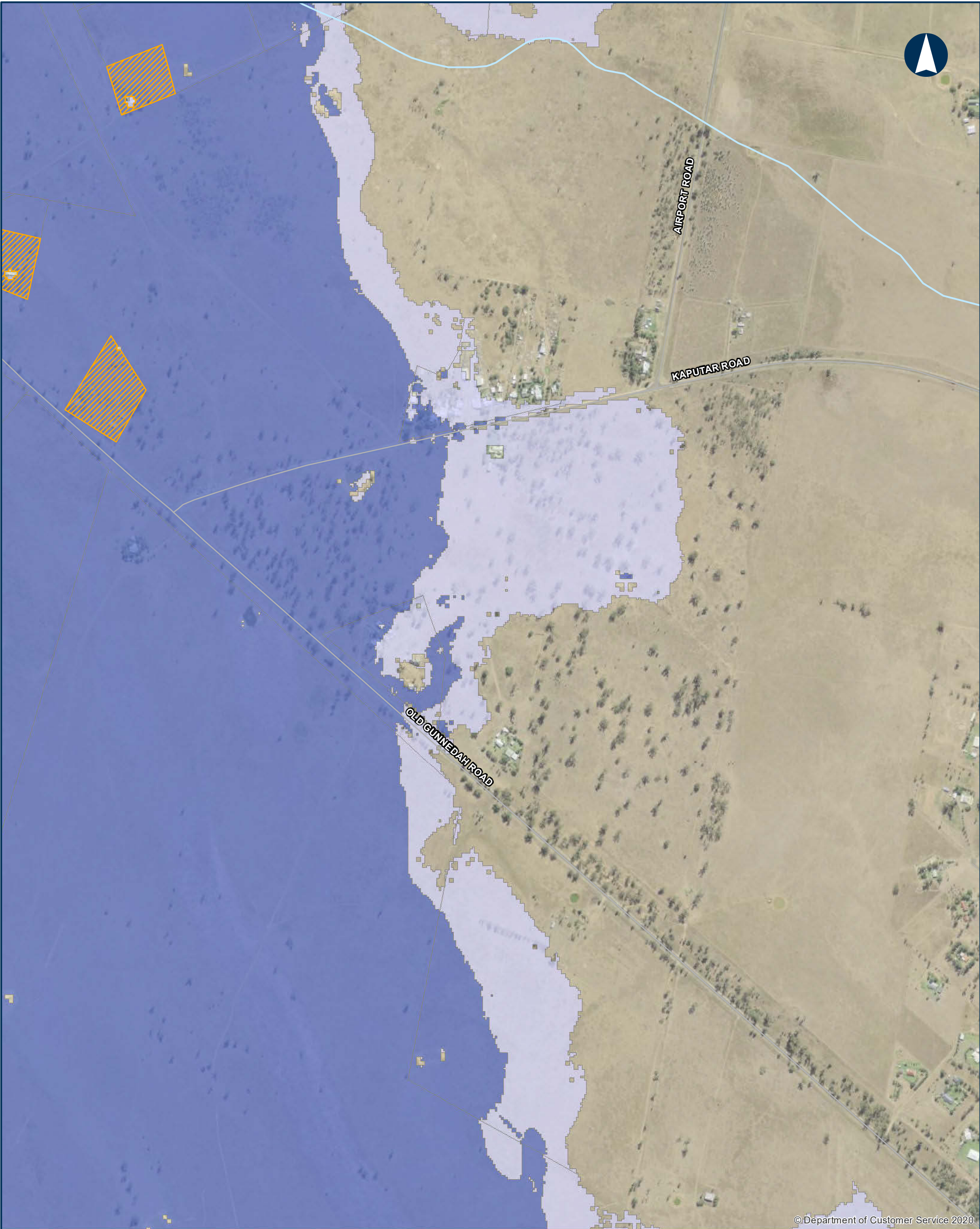
- Local road
- Watercourse
- Area of departure
- Buildings and sealed surfaces, vd change >10%
- Percentage Change in dv
- 0% - 10%
- 10% - 20%



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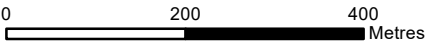


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NARROMINE TO NARRABRI

QDL departures - Hazard - 1% AEP with blockage - Narrabri Regional

Appendix B - Figure 3.8.9

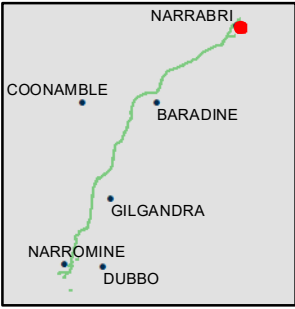


Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:8,480
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Sub arterial road
- Local road
- Watercourse
- Area of departure**
- Buildings and sealed surfaces, vd change >10%
- Percentage Change in dv**
- 0% - 10%
- 10% - 20%



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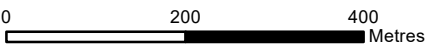


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NARROMINE TO NARRABRI

QDL departures - Hazard - 1% AEP with blockage - Narrabri Regional

Appendix B - Figure 3.8.10



Coordinate System: GDA 1994 MGA Zone 55

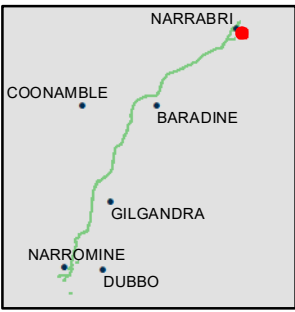
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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:8,480
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Sub arterial road
- Local road
- Watercourse
- Area of departure
- Buildings and sealed surfaces, vd change >10%
- Percentage Change in dv

0% - 10%

10% - 20%



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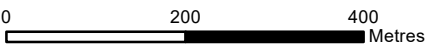


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NARROMINE TO NARRABRI

QDL departures - Hazard - 1% AEP with blockage - Narrabri Regional

Appendix B - Figure 3.8.11



Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:8,480
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Sub arterial road

Local road

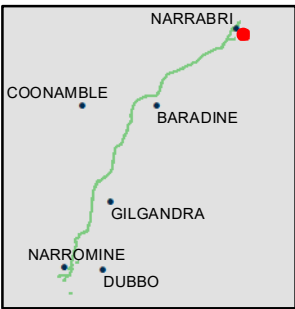
Watercourse
- Area of departure

Buildings and sealed surfaces, vd change >10%

Percentage Change in dv

0% - 10%

10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 1% AEP with blockage - Narrabri Regional

Appendix B - Figure 3.8.12

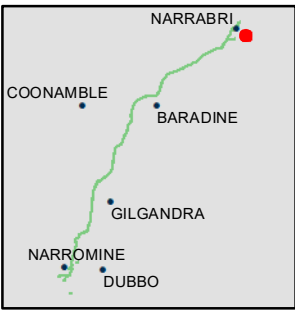
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Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:8,480
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Sub arterial road
- Watercourse
- Area of departure
- Buildings and sealed surfaces, vd change >10%
- Percentage Change in dv
- 0% - 10%
- 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 1% AEP with blockage - Narrabri Regional

Appendix B - Figure 3.8.13

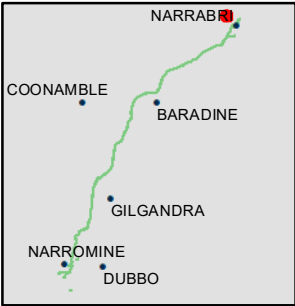
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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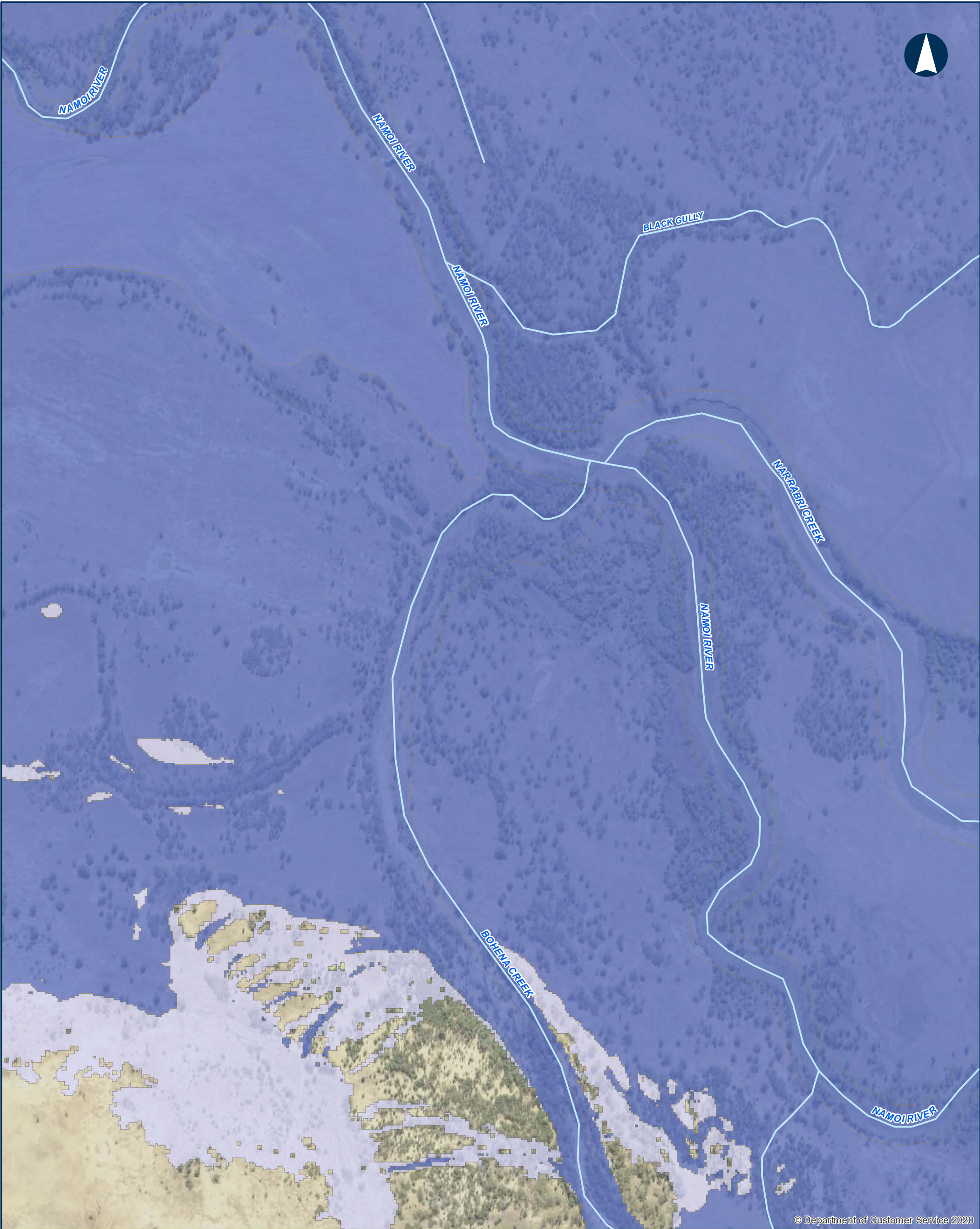
Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:8,480
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Local road
- Watercourse
- Area of departure
- Buildings and sealed surfaces, vd change >10%
- Percentage Change in dv
- 0% - 10%
- 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 1% AEP with blockage - Narrabri Regional

Appendix B - Figure 3.8.14

0200400

Metres

Watercourse

Percentage Change in dv

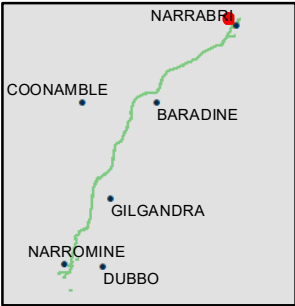
0% - 10%

10% - 20%

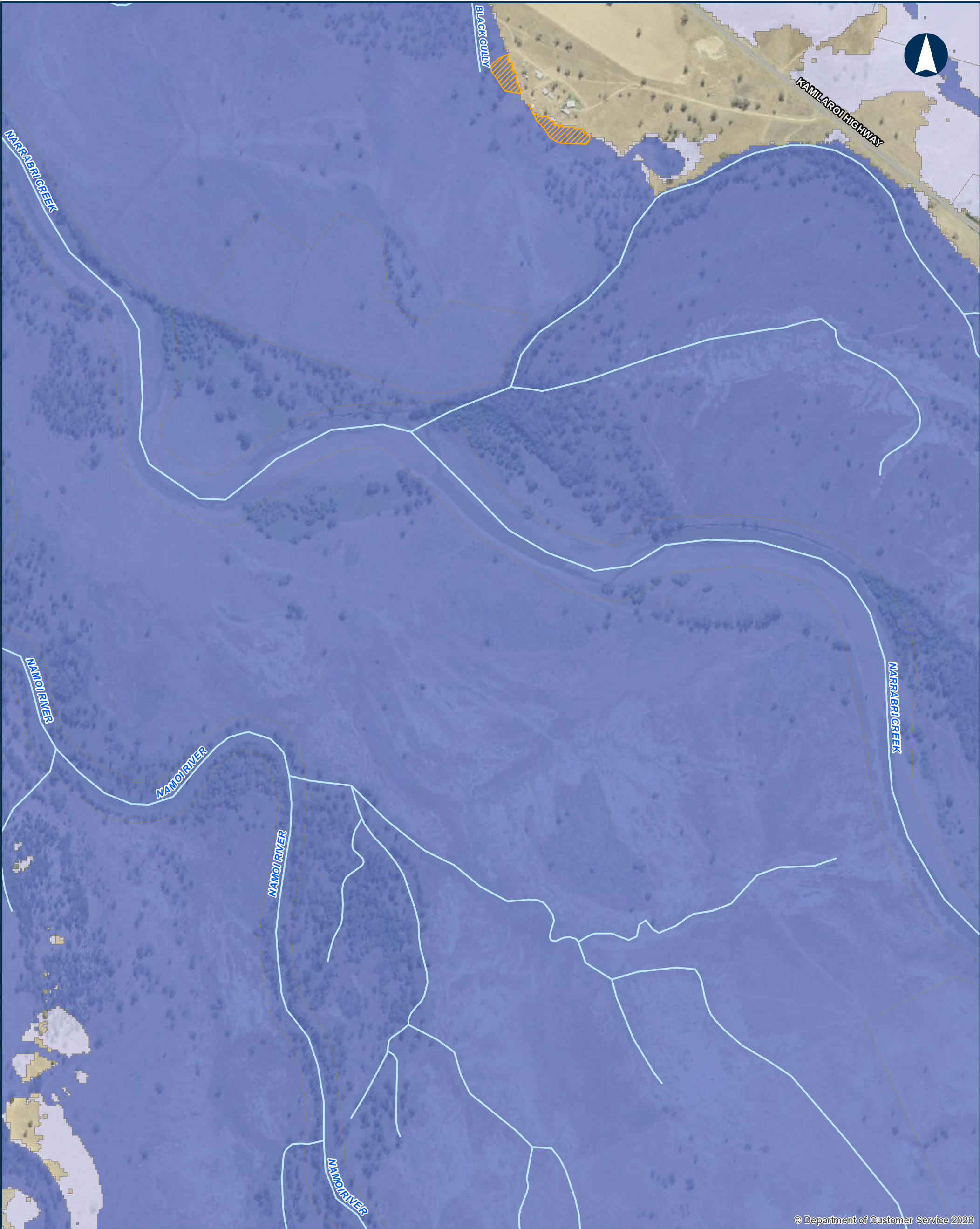
Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:8,480
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD



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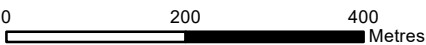


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NARROMINE TO NARRABRI

QDL departures - Hazard - 1% AEP with blockage - Narrabri Regional

Appendix B - Figure 3.8.15

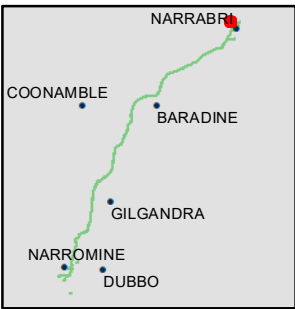


Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:8,480
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Primary road
- Watercourse
- Area of departure
- Buildings and sealed surfaces, vd change >10%
- Percentage Change in dv
- 0% - 10%
- 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 1% AEP with blockage - Narrabri Regional

Appendix B - Figure 3.8.16

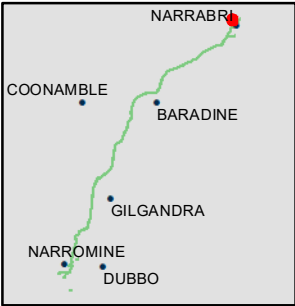
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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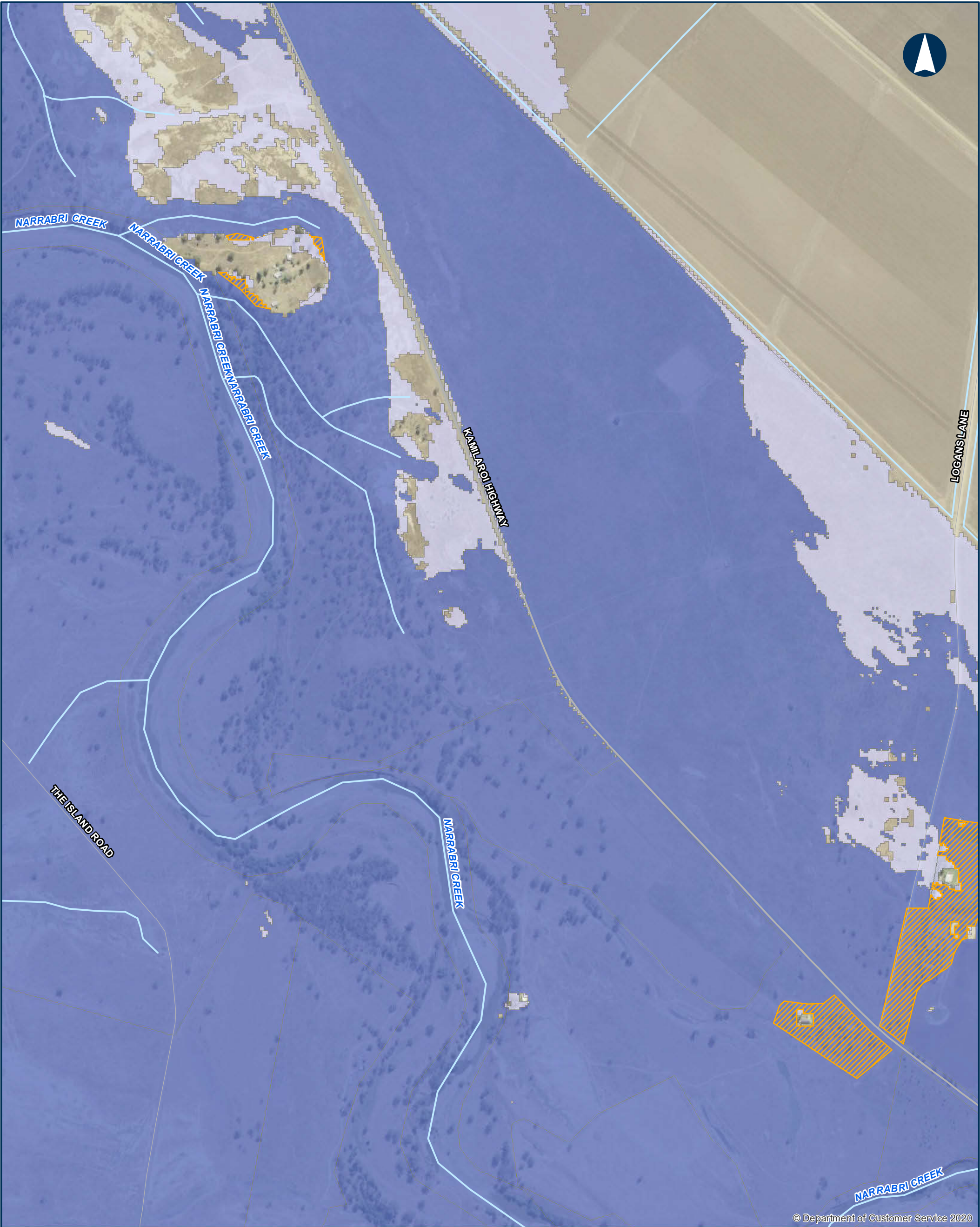
Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:8,480
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Primary road
- Sub arterial road
- Local road
- Watercourse
- Area of departure**
 - Buildings and sealed surfaces, vd change >10%
- Percentage Change in dv**
 - 0% - 10%
 - 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 1% AEP with blockage - Narrabri Regional

Appendix B - Figure 3.8.17

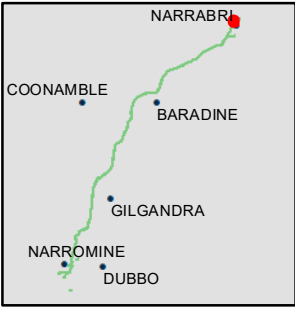
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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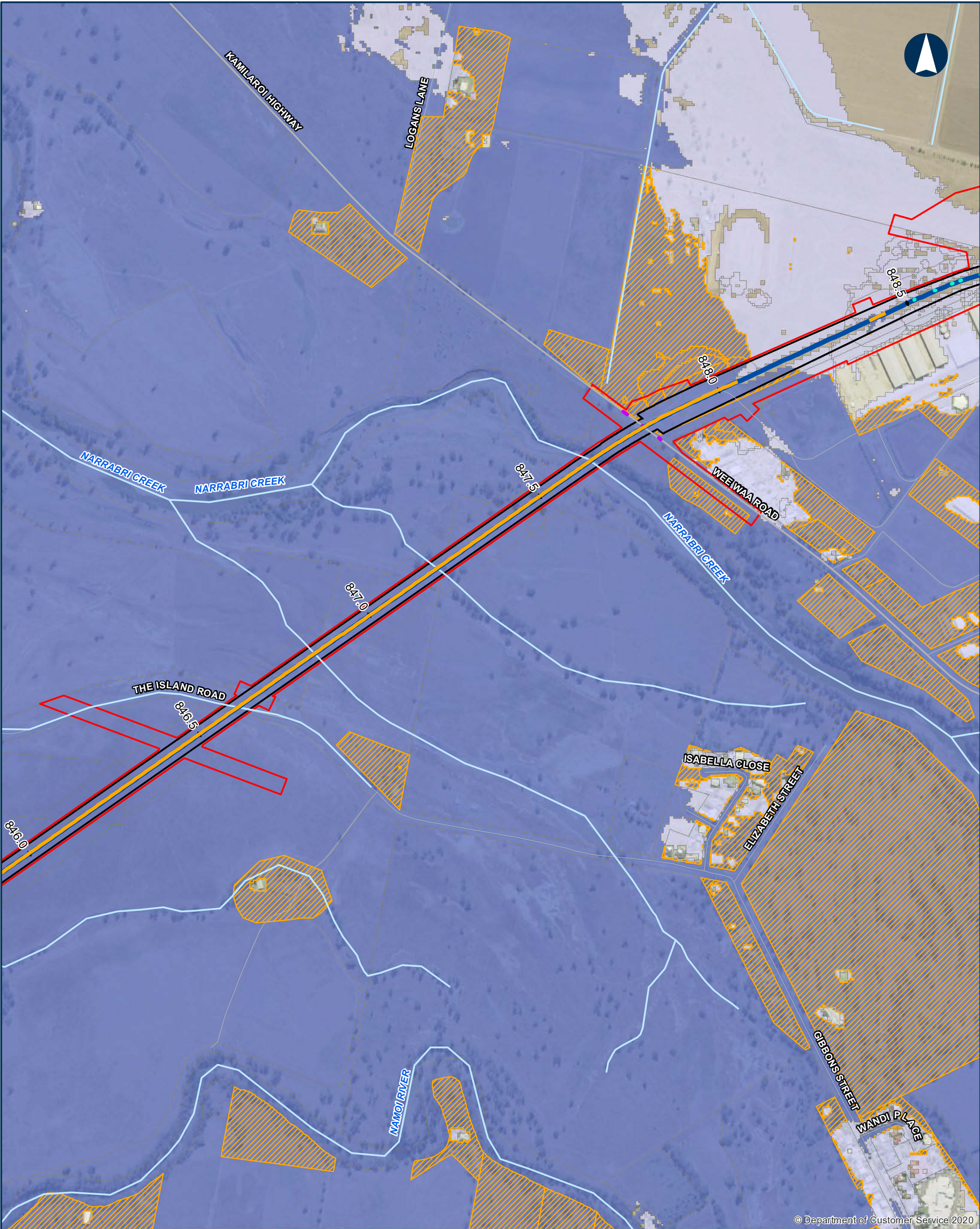
Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:8,480
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Primary road
- Local road
- Watercourse
- Area of departure
- Buildings and sealed surfaces, vd change >10%
- Percentage Change in dv
- 0% - 10%
- 10% - 20%



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NARROMINE TO NARRABRI QDL departures - Hazard - 1% AEP with blockage - Narrabri Regional Appendix B - Figure 3.8.18

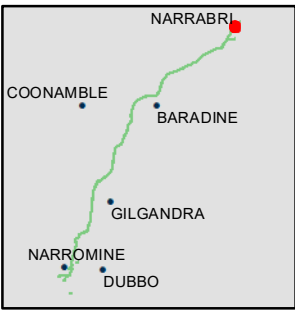
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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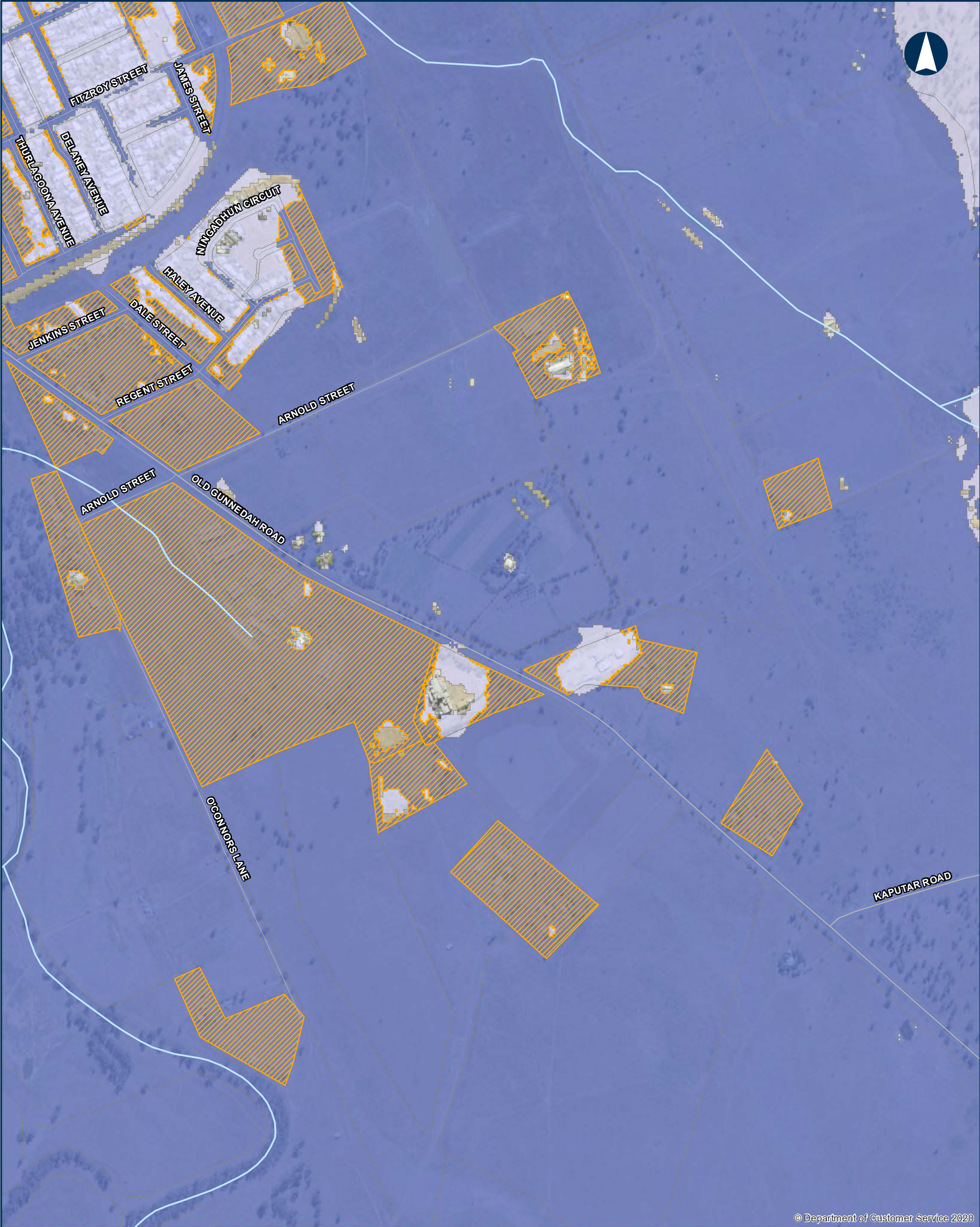
Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:8,480
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Bridge
- Culvert
- TfNSW newly flooded roads
- Alignment
- Primary road
- Local road
- Watercourse
- The proposal
- Rail Corridor
- Area of departure
- Buildings and sealed surfaces, vd change >10%
- Percentage Change in dv
- 0% - 10%
- 10% - 20%



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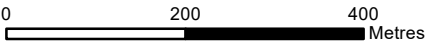


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NARROMINE TO NARRABRI

QDL departures - Hazard - 1% AEP with blockage - Narrabri Regional

Appendix B - Figure 3.8.20

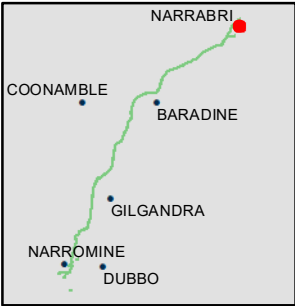


Coordinate System: GDA 1994 MGA Zone 55

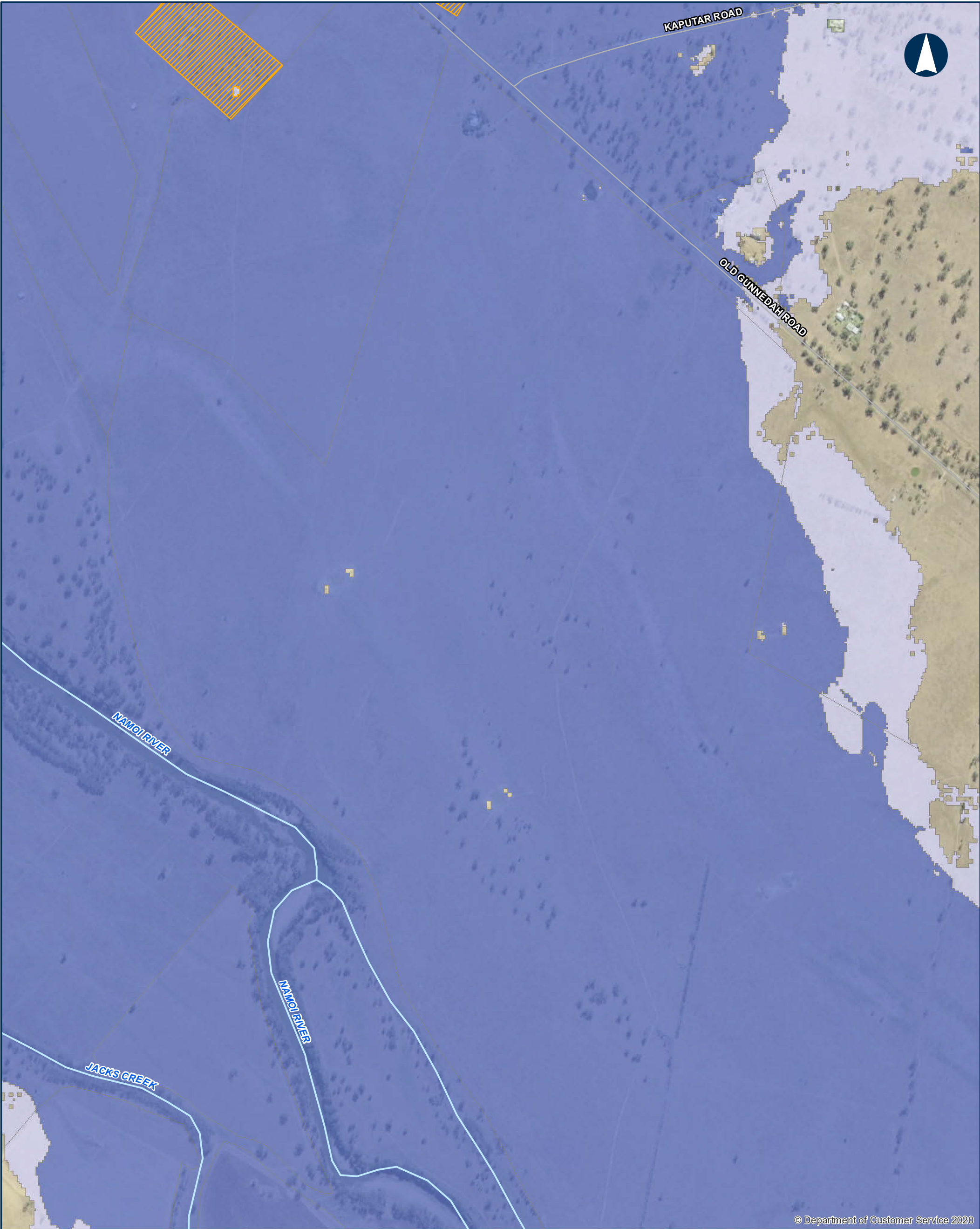
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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:8,480
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Sub arterial road
- Local road
- Watercourse
- Area of departure
- Buildings and sealed surfaces, vd change >10%
- Percentage Change in dv
- 0% - 10%
- 10% - 20%



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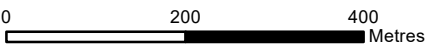


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NARROMINE TO NARRABRI

QDL departures - Hazard - 1% AEP with blockage - Narrabri Regional

Appendix B - Figure 3.8.21

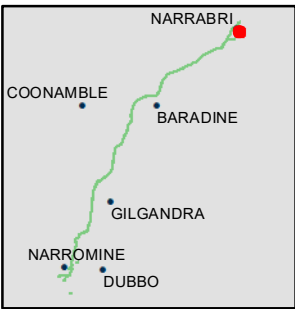


Coordinate System: GDA 1994 MGA Zone 55

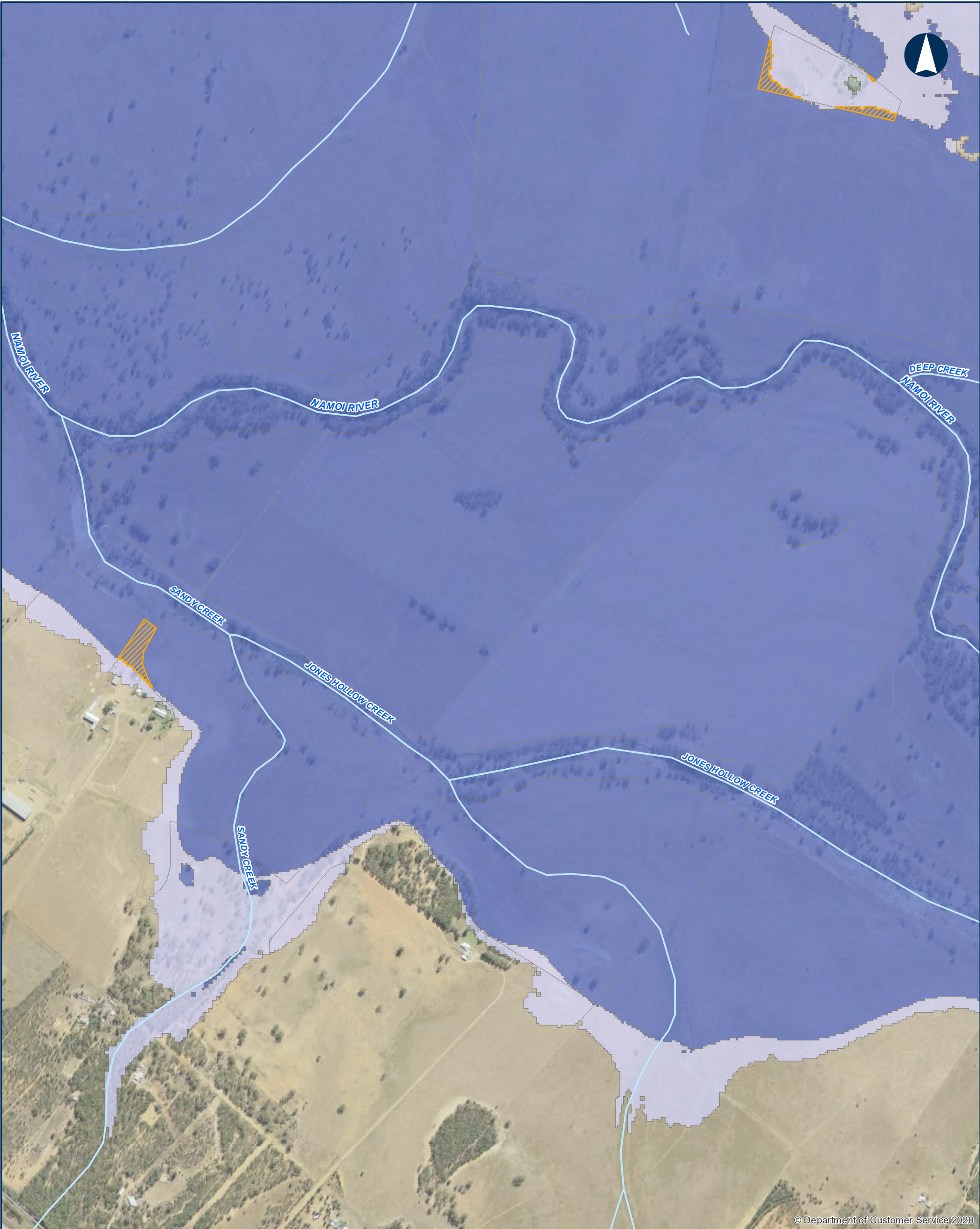
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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:8,480
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Sub arterial road
- Watercourse
- Area of departure
- Buildings and sealed surfaces, vd change >10%
- Percentage Change in dv
 - 0% - 10%
 - 10% - 20%



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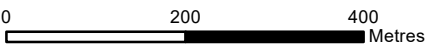


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NARROMINE TO NARRABRI

QDL departures - Hazard - 1% AEP with blockage - Narrabri Regional

Appendix B - Figure 3.8.22

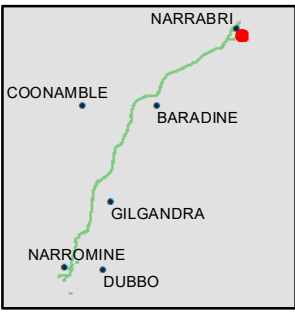


Coordinate System: GDA 1994 MGA Zone 55

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Author: JacobsGHD Scale: 1:8,480
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Primary road
- Local road
- Watercourse
- Area of departure
- Buildings and sealed surfaces, vd change >10%
- Percentage Change in dv
- 0% - 10%
- 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 1% AEP with blockage - Narrabri Regional

Appendix B - Figure 3.8.23

0200400

Metres

Watercourse

Percentage Change in dv

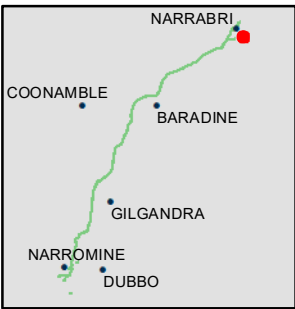
0% - 10%

10% - 20%

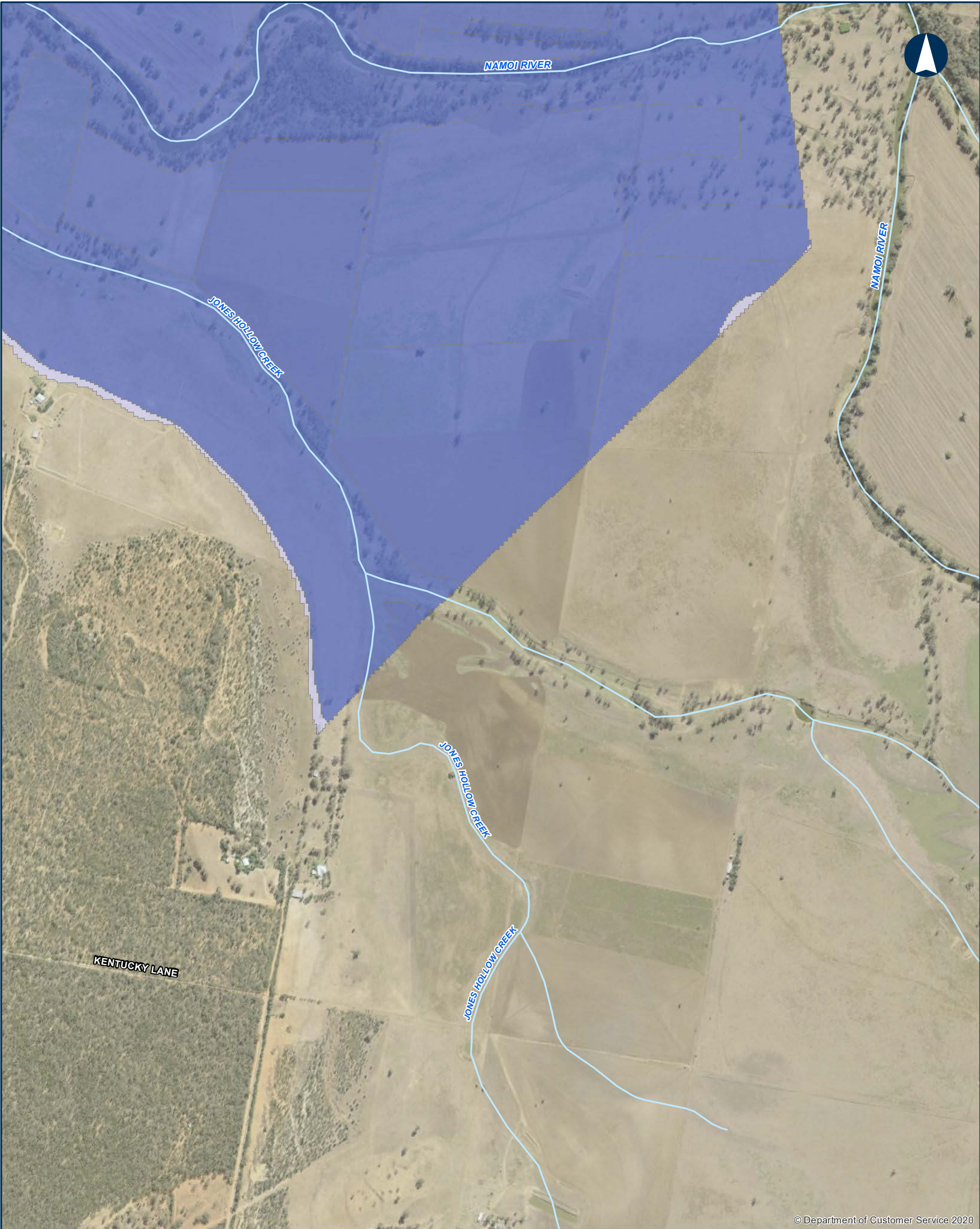
Coordinate System: GDA 1994 MGA Zone 55

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NARROMINE TO NARRABRI

QDL departures - Hazard - 1% AEP with blockage - Narrabri Regional

Appendix B - Figure 3.8.24

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:8,480

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

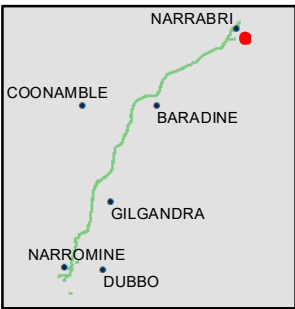
Local road

Watercourse

Percentage Change in dv

0% - 10%

10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 1% AEP with blockage - Narrabri Regional

Appendix B - Figure 3.8.25

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:8,480

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

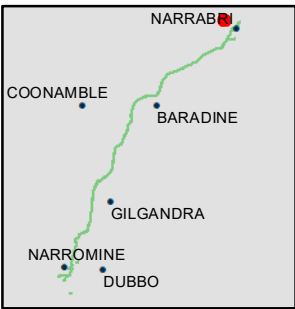
Local road

Watercourse

Percentage Change in dv

0% - 10%

10% - 20%



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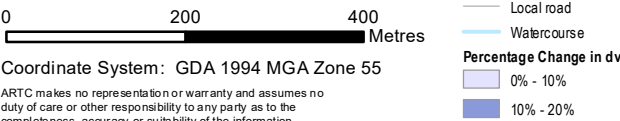


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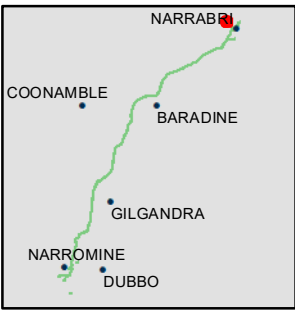
NARROMINE TO NARRABRI

QDL departures - Hazard - 1% AEP with blockage - Narrabri Regional

Appendix B - Figure 3.8.26

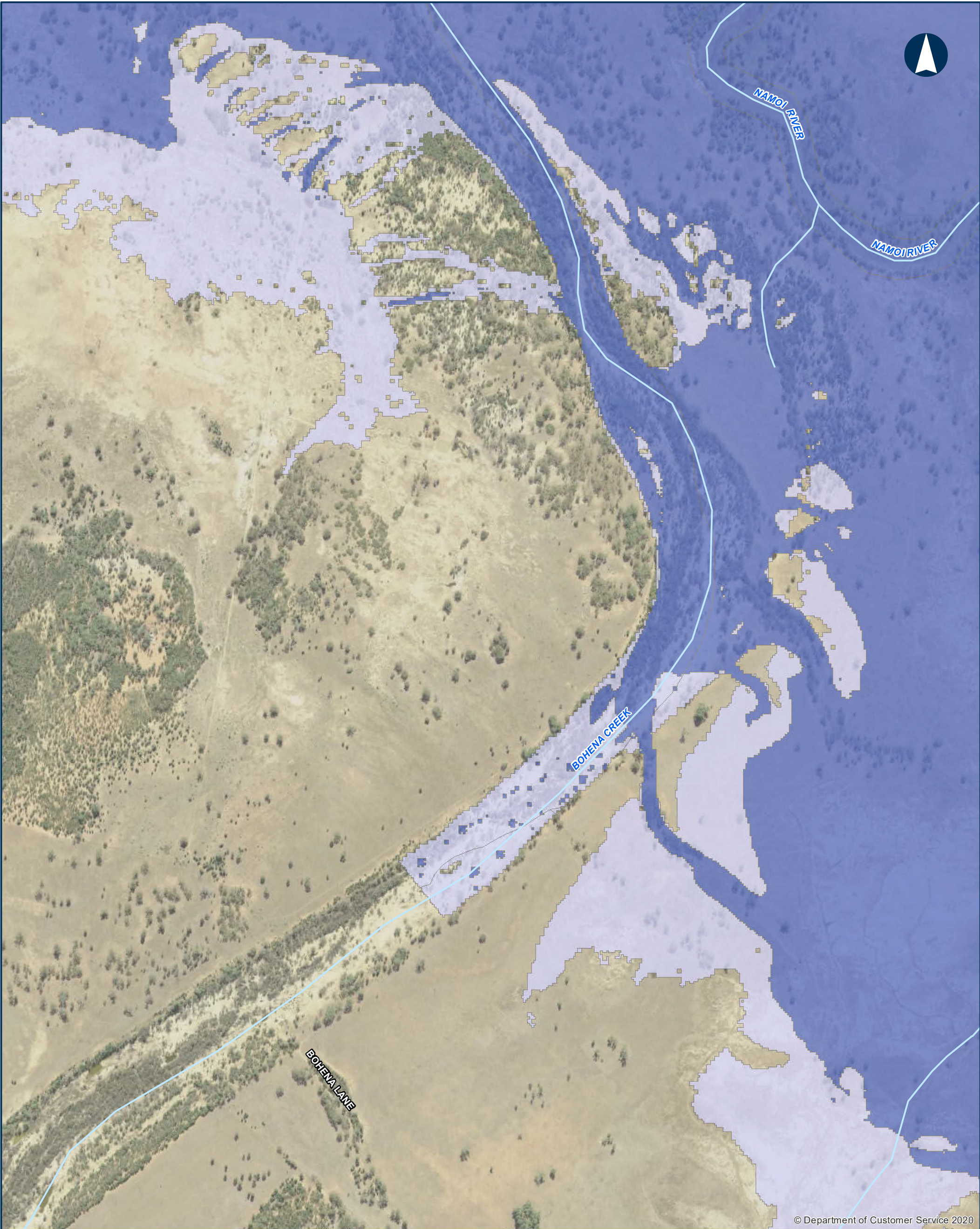


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Author: JacobsGHD Scale: 1:8,480
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD



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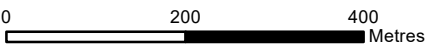


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QDL departures - Hazard - 1% AEP with blockage - Narrabri Regional

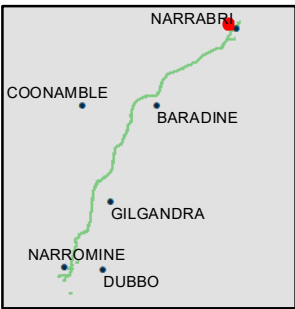
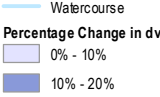
Appendix B - Figure 3.8.27



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Author: JacobsGHD Scale: 1:8,480
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NARROMINE TO NARRABRI

QDL departures - Hazard - 1% AEP with blockage - Narrabri Regional

Appendix B - Figure 3.8.28

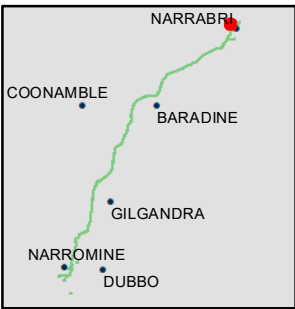
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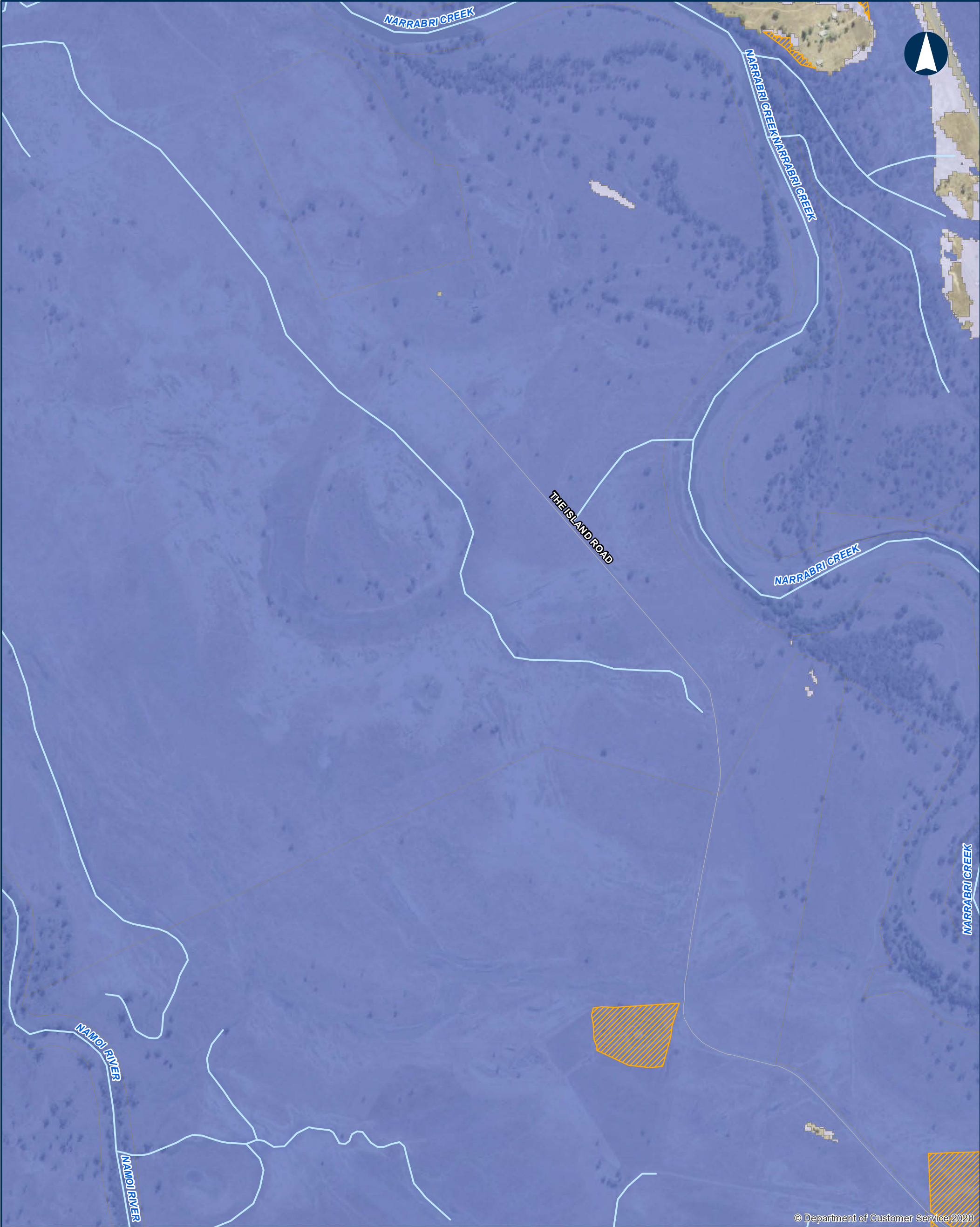
Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:8,480
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

Local road
Watercourse
Percentage Change in dv
0% - 10%
10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 1% AEP with blockage - Narrabri Regional

Appendix B - Figure 3.8.29

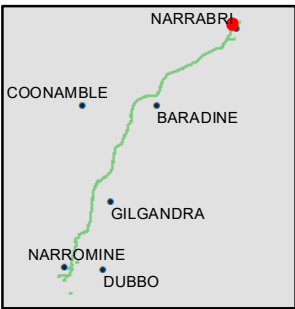
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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:8,480
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Primary road
Local road
Watercourse
- Area of departure
Buildings and sealed surfaces, vd change >10%
- Percentage Change in dv
0% - 10%
10% - 20%



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QDL departures - Hazard - 1% AEP with blockage - Narrabri Regional

Appendix B - Figure 3.8.30

0200400

Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:8,480

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

- Bridge

Alignment

Primary road

Local road

Watercourse
- The proposal

Rail Corridor

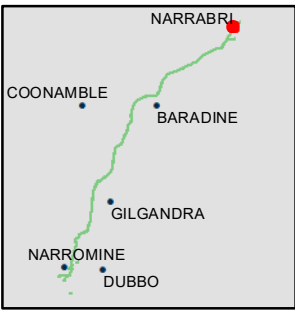
Area of departure

Buildings and sealed surfaces, vd change >10%

Percentage Change in dv

0% - 10%

10% - 20%



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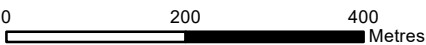


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NARROMINE TO NARRABRI

QDL departures - Hazard - 1% AEP with blockage - Narrabri Regional

Appendix B - Figure 3.8.31

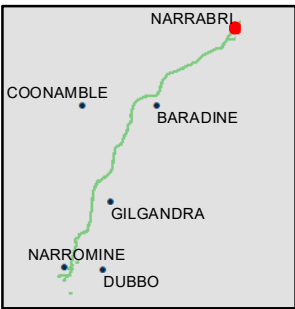


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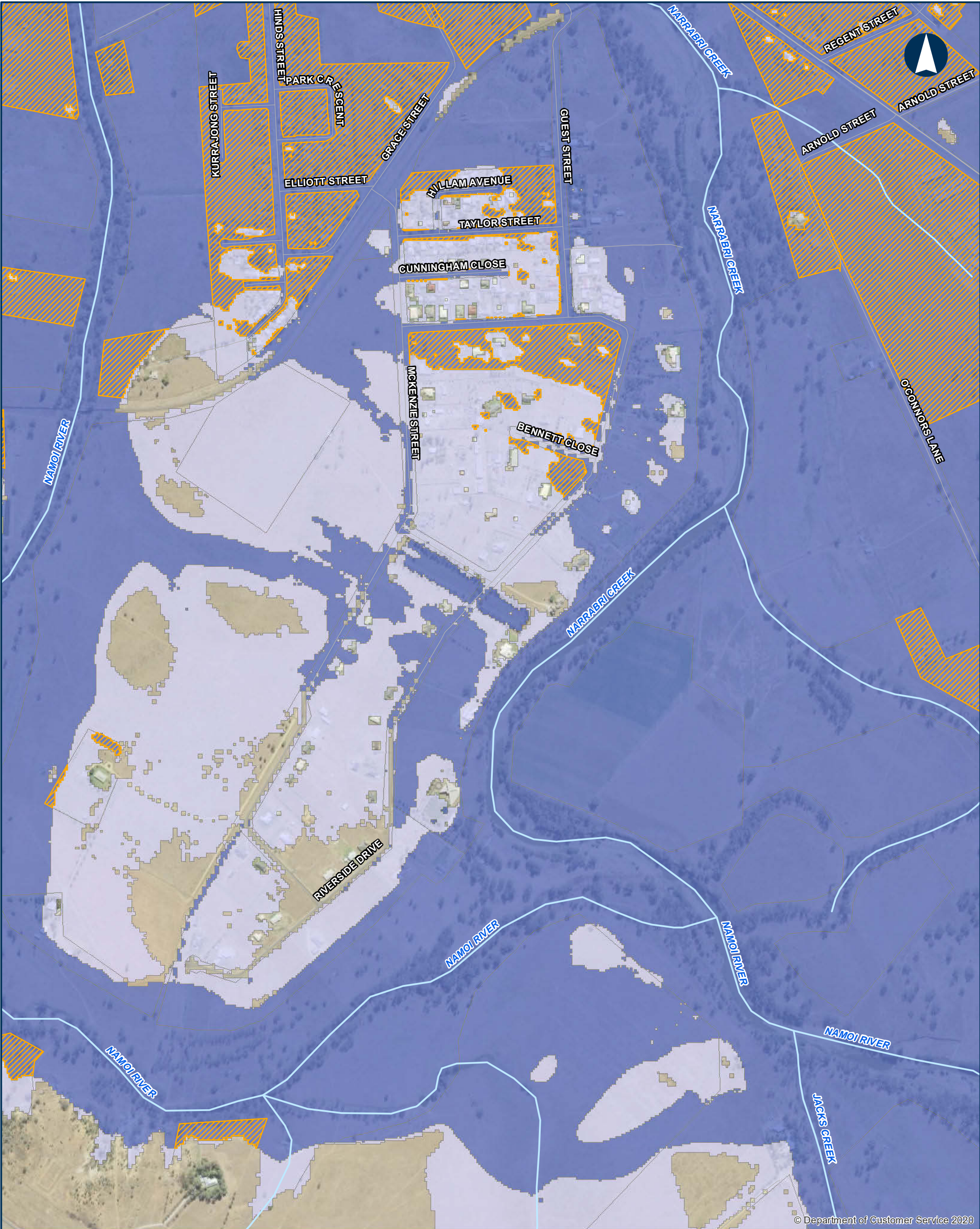
Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:8,480
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Bridge
- Alignment
- Primary road
- Sub arterial road
- Local road
- Watercourse
- The proposal
- Rail Corridor
- Area of departure
- Buildings and sealed surfaces, vd change >10%
- Percentage Change in dv
 - 0% - 10%
 - 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 1% AEP with blockage - Narrabri Regional

Appendix B - Figure 3.8.32

0 200 400 Metres

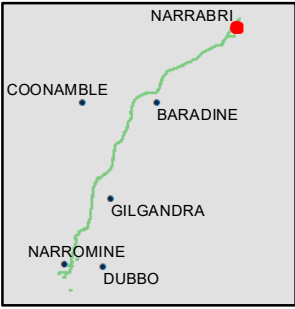
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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:8,480
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Sub arterial road
- Local road
- Watercourse
- Area of departure**
- Percentage Change in dv**

- Buildings and sealed surfaces, vd change >10%
- 0% - 10%
- 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 1% AEP with blockage - Narrabri Regional

Appendix B - Figure 3.8.33

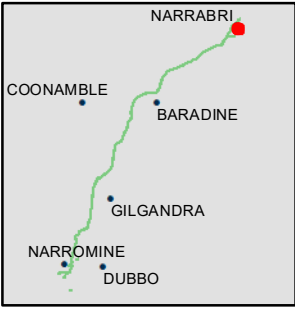
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Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:8,480
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Primary road
- Local road
- Watercourse
- Area of departure
- Buildings and sealed surfaces, vd change >10%
- Percentage Change in dv
- 0% - 10%
- 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 1% AEP with blockage - Narrabri Regional

Appendix B - Figure 3.8.34

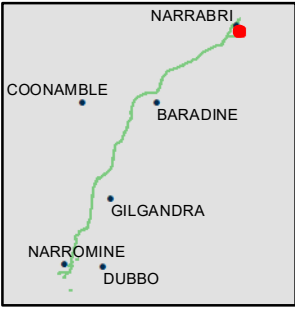
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:8,480
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Primary road
- Local road
- Watercourse
- Area of departure**
- Percentage Change in dv**
- Buildings and sealed surfaces, vd change >10%
- 0% - 10%
- 10% - 20%



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NARROMINE TO NARRABRI QDL departures - Hazard - 1% AEP with blockage - Narrabri Regional Appendix B - Figure 3.8.35

0200400

Metres

Local road

Watercourse

Percentage Change in dv

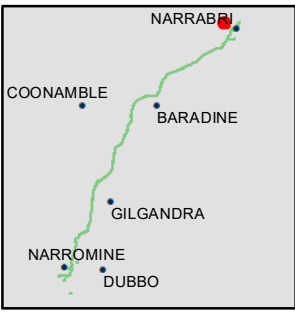
0% - 10%

10% - 20%

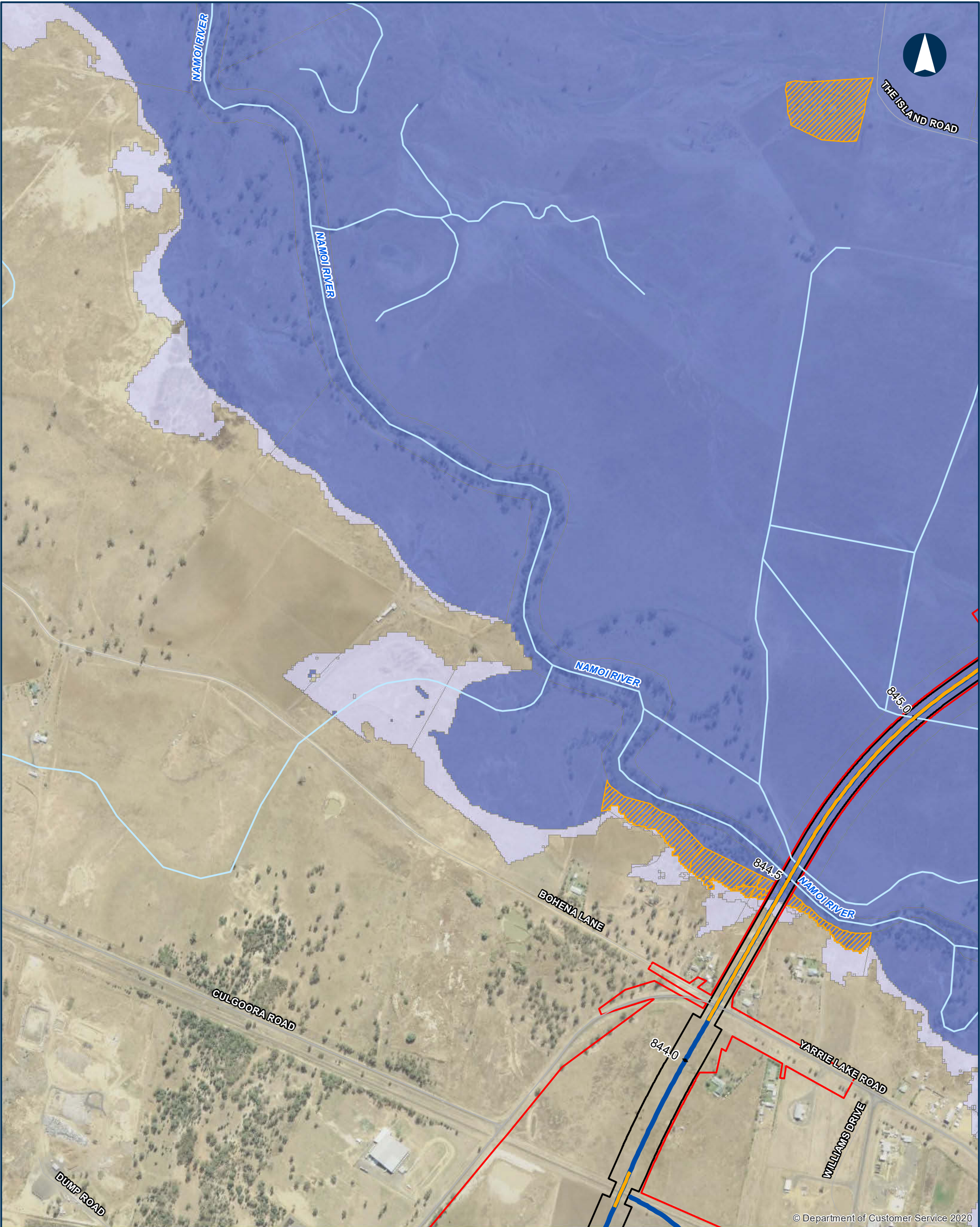
Coordinate System: GDA 1994 MGA Zone 55

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NARROMINE TO NARRABRI

QDL departures - Hazard - 1% AEP with blockage - Narrabri Regional

Appendix B - Figure 3.8.36

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:8,480

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

Bridge

Alignment

Sub arterial road

Local road

Watercourse

The proposal

Rail Corridor

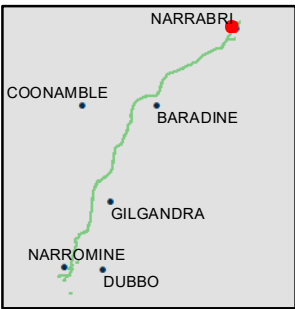
Area of departure

Buildings and sealed surfaces, vd change >10%

Percentage Change in dv

0% - 10%

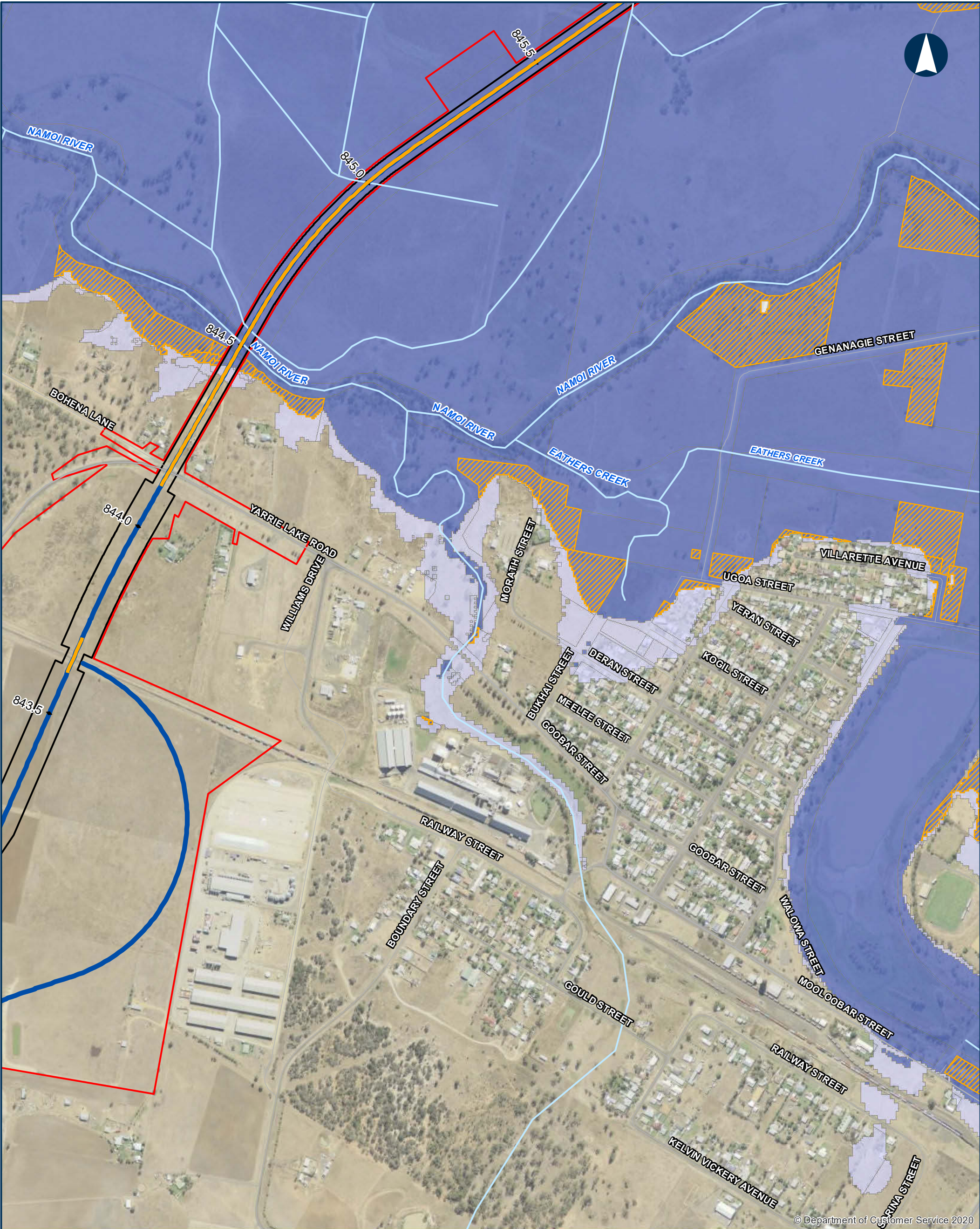
10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 1% AEP with blockage - Narrabri Regional

Appendix B - Figure 3.8.37

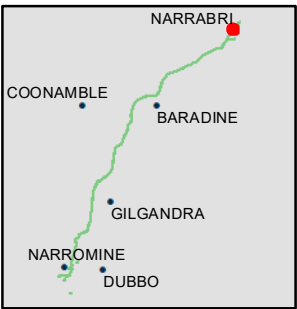
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:8,480
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Bridge
- Alignment
- Primary road
- Sub arterial road
- Local road
- Watercourse
- The proposal
- Rail Corridor
- Area of departure
- Buildings and sealed surfaces, vd change >10%
- Percentage Change in dv
- 0% - 10%
- 10% - 20%



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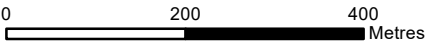


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NARROMINE TO NARRABRI

QDL departures - Hazard - 1% AEP with blockage - Narrabri Regional

Appendix B - Figure 3.8.38

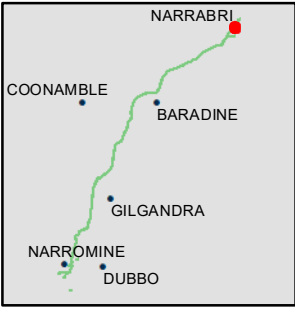


Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:8,480
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Primary road
 - Sub arterial road
 - Local road
 - Watercourse
- Area of departure**
- Buildings and sealed surfaces, vd change >10%
- Percentage Change in dv**
- 0% - 10%
 - 10% - 20%



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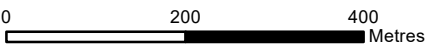


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NARROMINE TO NARRABRI

QDL departures - Hazard - 1% AEP with blockage - Narrabri Regional

Appendix B - Figure 3.8.39



Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:8,480
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Primary road

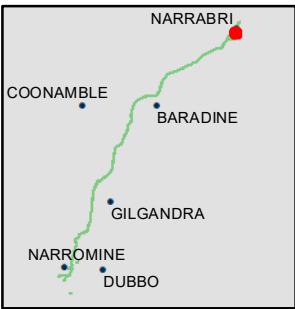
Local road

Watercourse
- Area of departure

Buildings and sealed surfaces, vd change >10%
- Percentage Change in dv

0% - 10%

10% - 20%



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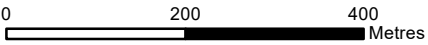


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NARROMINE TO NARRABRI

QDL departures - Hazard - 1% AEP with blockage - Narrabri Regional

Appendix B - Figure 3.8.40



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Date: 10/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:8,480
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Primary road

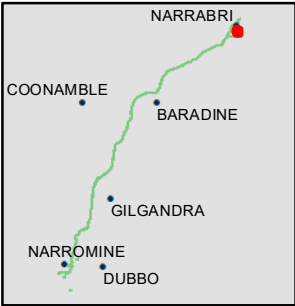
Local road

Watercourse
- Area of departure

Buildings and sealed surfaces, vd change >10%
- Percentage Change in dv

0% - 10%

10% - 20%



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