

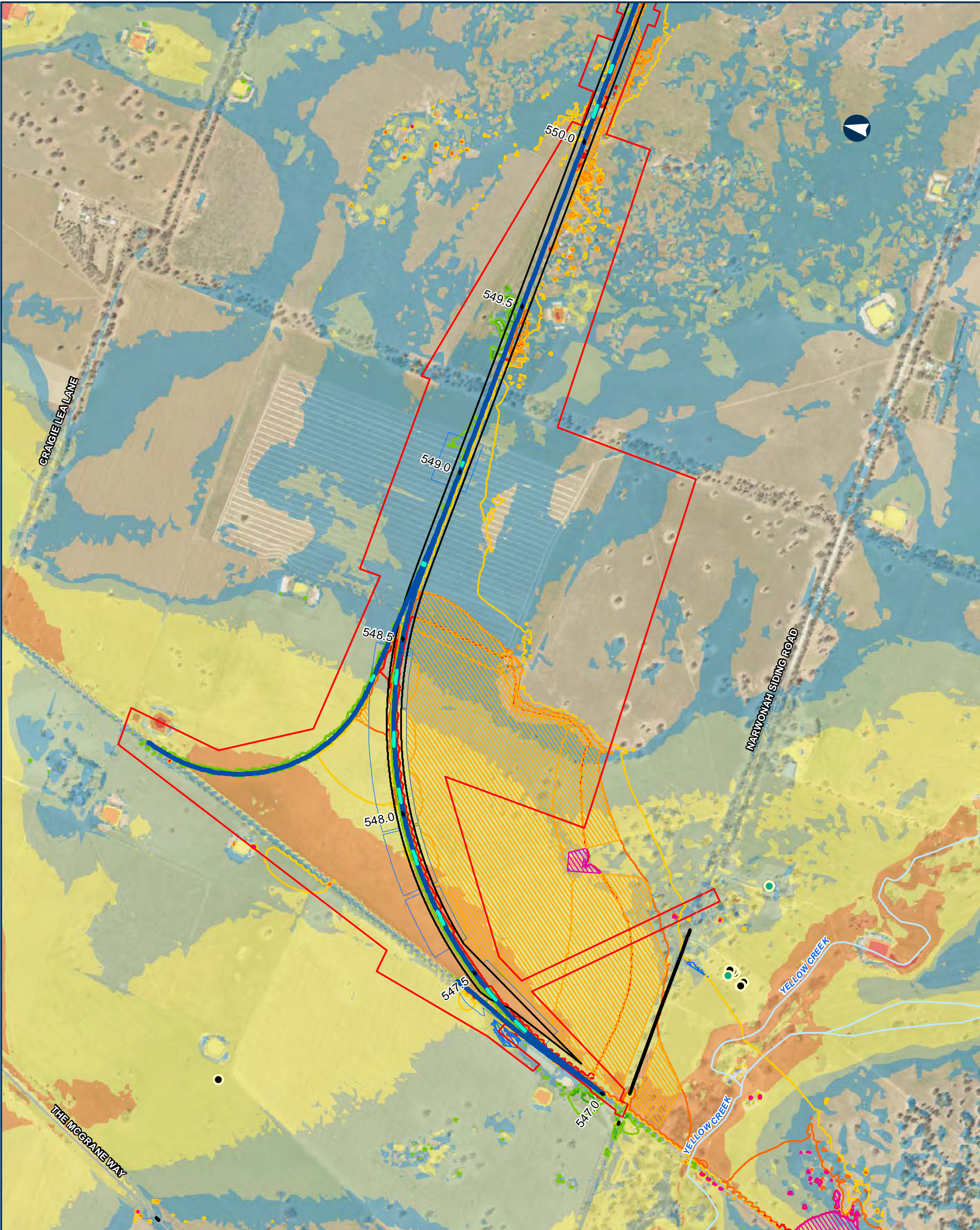
TECHNICAL REPORT 03

Updated flooding and hydrology assessment

Appendix I4 QDL compliance (afflux 1% AEP with blockage)

NARROMINE TO NARRABRI PROJECT





NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.1

0 200 400 Metres

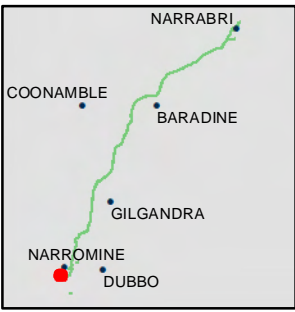
Coordinate System: GDA 1994 MGA Zone 55

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Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

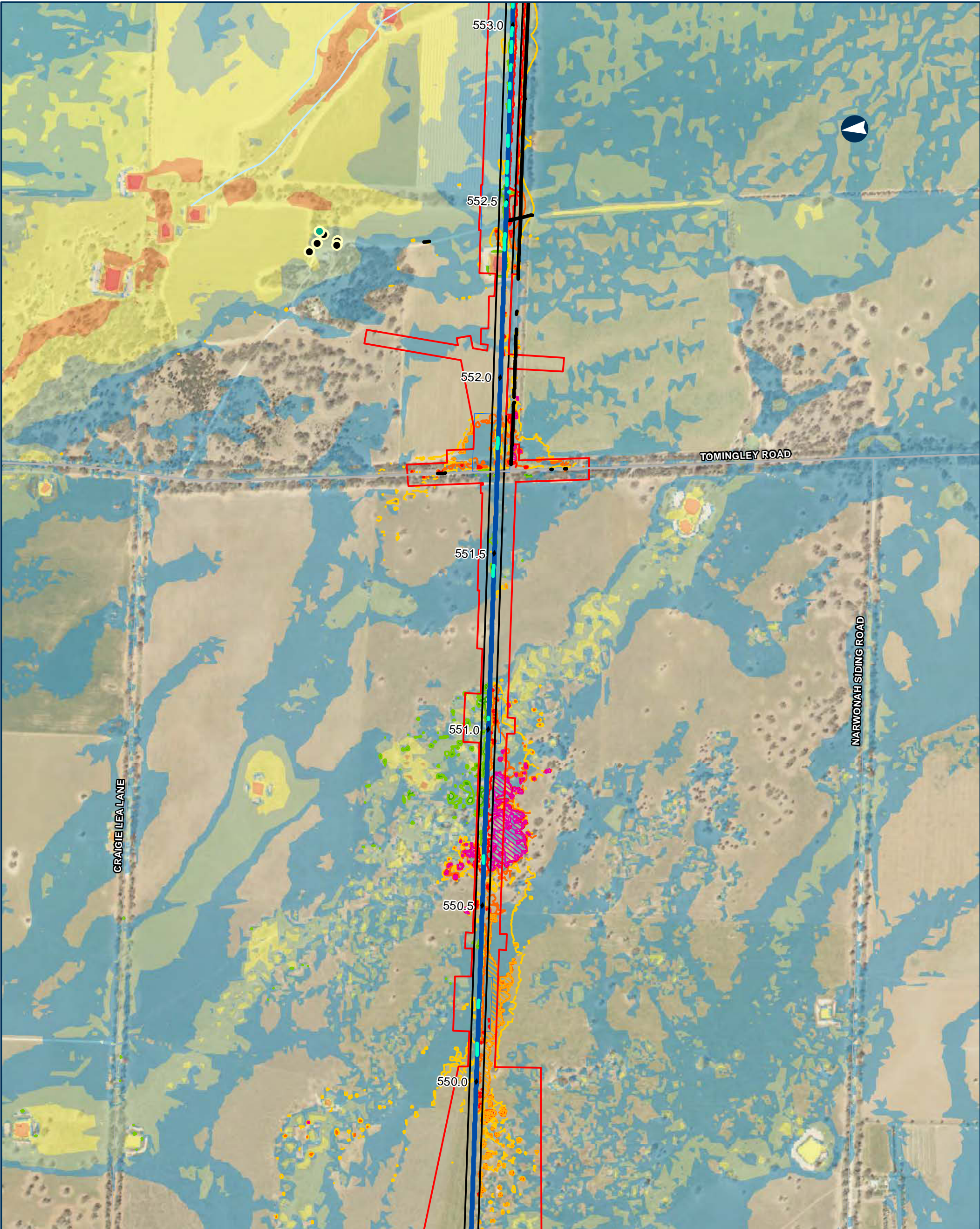
- Habitable floor departure
- Non-habitable floor departure
- Culvert
- Road QDL departure
- Alignment
- Arterial road
- Local road
- Watercourse
- The proposal
- Drainage Control Area
- Rail Corridor
- Afflux contour
 - 300mm
 - 200mm
 - 100mm
 - 200mm
 - 300mm
- Area of departure
 - Urban and Infrastructure >100mm increase
 - Agricultural >200mm increase
 - Other non-urban >300mm increase

- Existing Flood Depth
- 0.0m - 0.25m
 - 0.25m - 0.5m
 - 0.5m - 1.0m
 - 1.0m - 2.0m
 - > 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.2

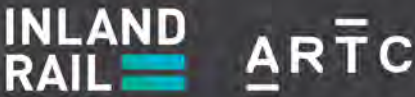
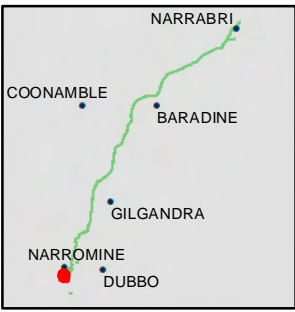
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Coordinate System: GDA 1994 MGA Zone 55

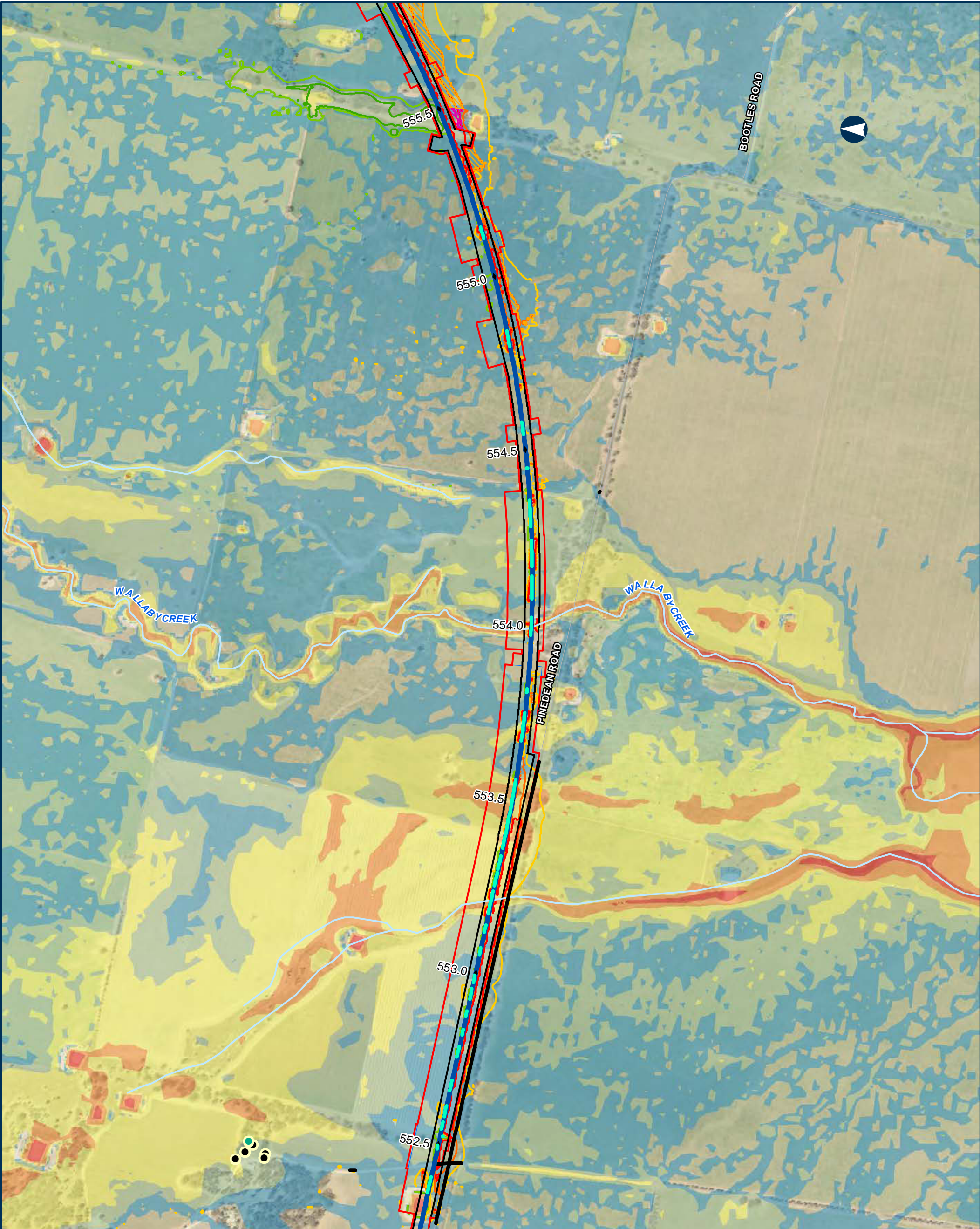
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Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

<ul style="list-style-type: none">Habitable floor departureNon-habitable floor departureCulvertRoad QDL departureAlignmentArterial roadLocal roadWatercourse	<ul style="list-style-type: none">The proposalDrainage Control AreaRail CorridorAfflux contour<ul style="list-style-type: none">-300mm-200mm100mm200mm300mmArea of departure<ul style="list-style-type: none">Agricultural >200mm increaseOther non-urban >300mm increase	<ul style="list-style-type: none">Existing Flood Depth<ul style="list-style-type: none">0.0m - 0.25m0.25m - 0.5m0.5m - 1.0m1.0m - 2.0m> 2.0m
---	--	---



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.3

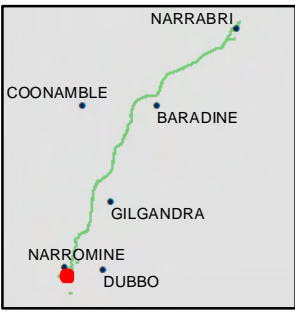
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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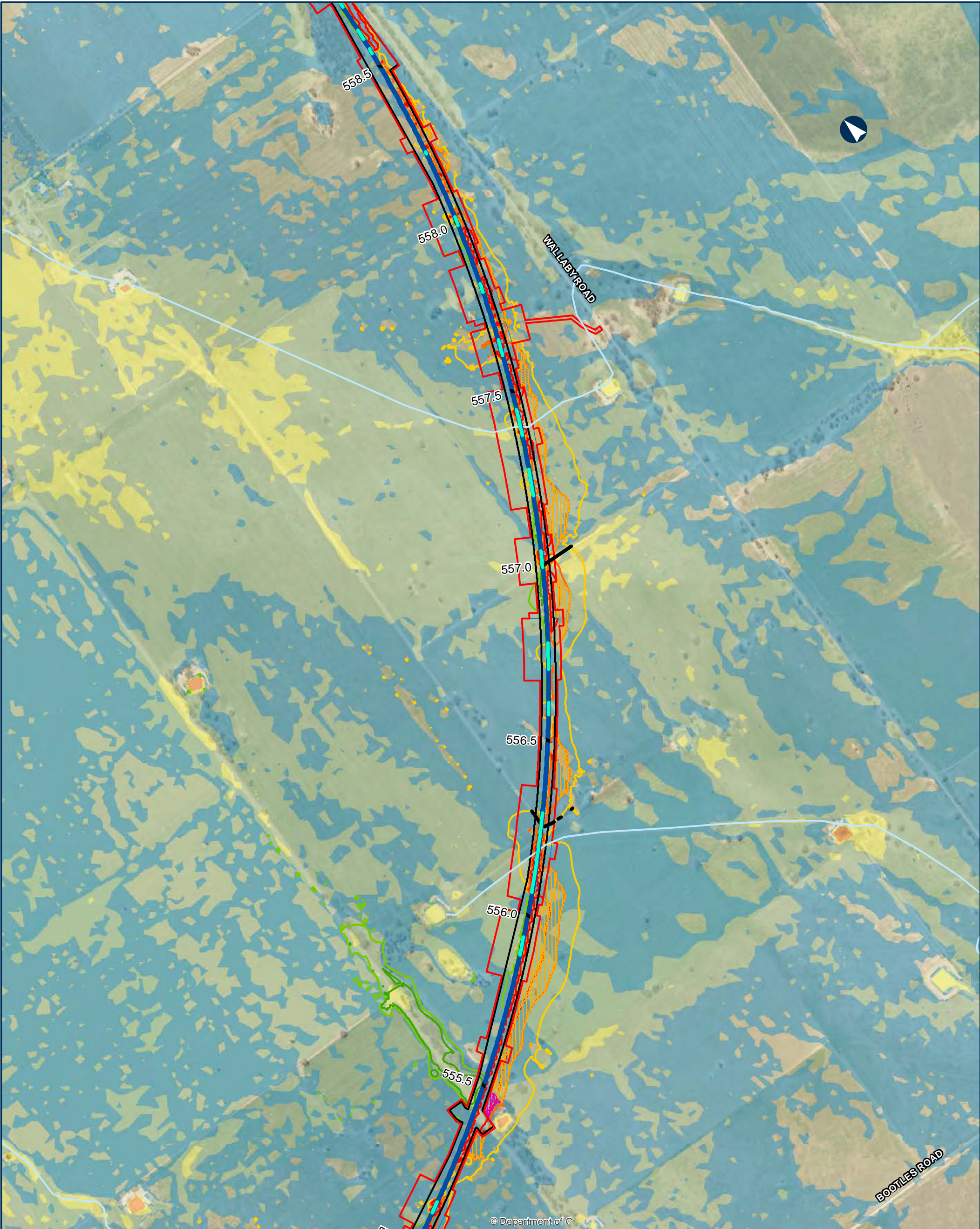
Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Habitable floor departure
- Non-habitable floor departure
- Culvert
- Road QDL departure
- Alignment
- Local road
- Watercourse
- The proposal
- Drainage Control Area
- Rail Corridor
- Afflux contour
 - <300mm
 - <200mm
 - 100mm
 - 200mm
 - 300mm
- Area of departure
 - Agricultural >200mm increase
 - Other non-urban >300mm increase
- Existing Flood Depth
 - 0.0m - 0.25m
 - 0.25m - 0.5m
 - 0.5m - 1.0m
 - 1.0m - 2.0m
 - > 2.0m



INLAND RAIL ARTC

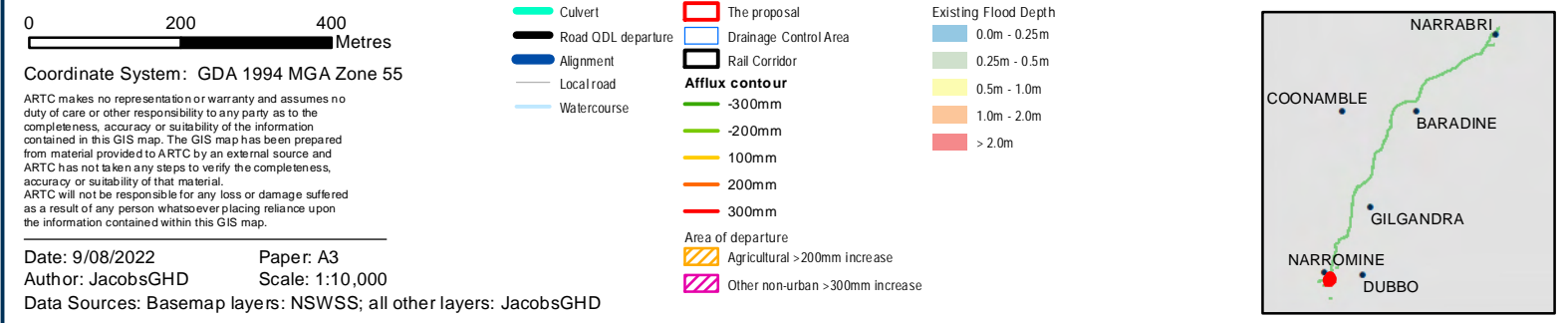
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NARROMINE TO NARRABRI

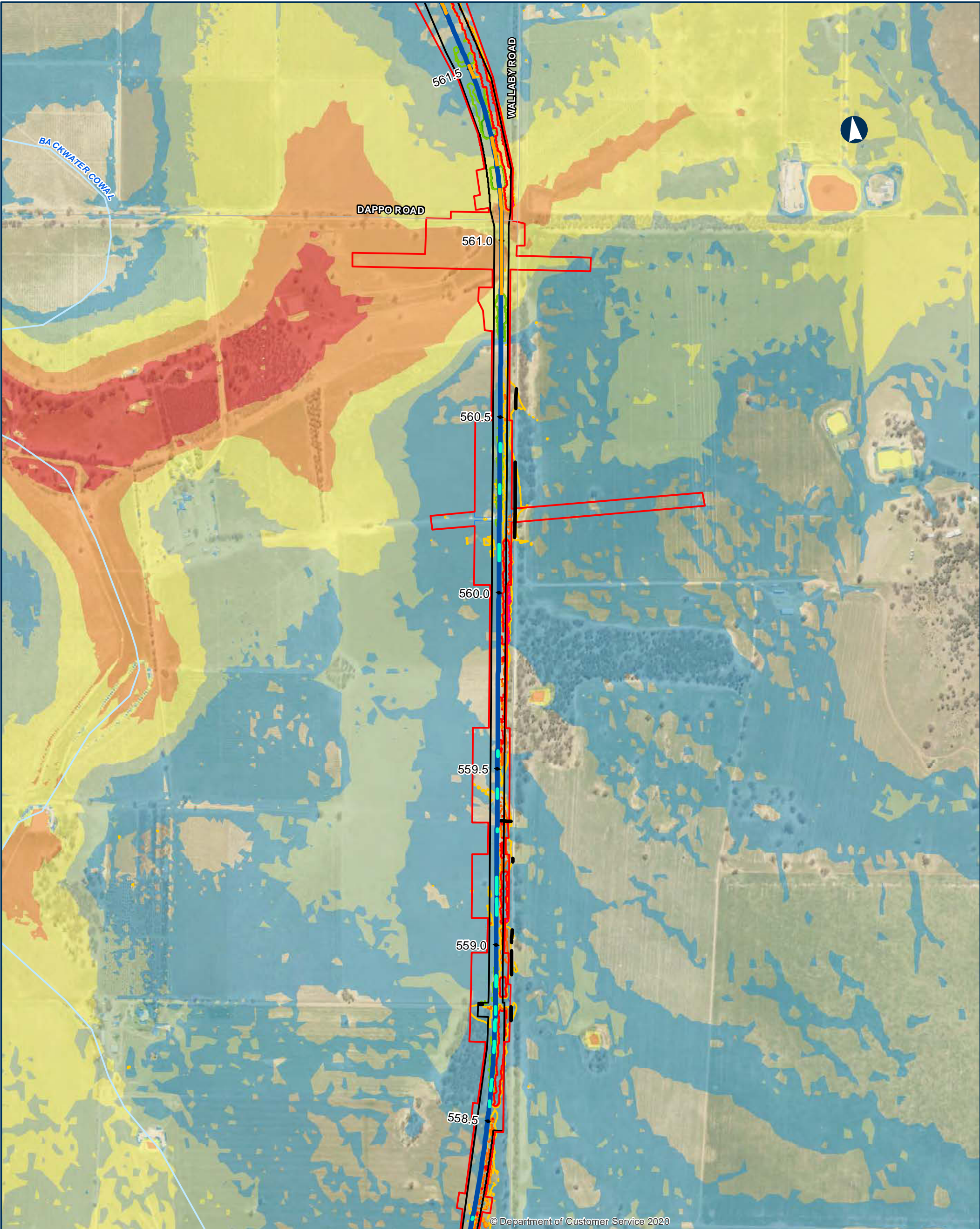
QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.4



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.5

0

200

400

Metres

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A3

Author: JacobsGHD

Scale: 1:10,000

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

Bridge

Culvert

Road QDL departure

Alignment

Local road

Watercourse

The proposal

Drainage Control Area

Rail Corridor

Afflux contour

-300mm

-200mm

100mm

200mm

300mm

Area of departure

Agricultural >200mm increase

Other non-urban >300mm increase

Existing Flood Depth

0.0m - 0.25m

0.25m - 0.5m

0.5m - 1.0m

1.0m - 2.0m

> 2.0m

NARRABRI

COONAMBLE

BARADINE

GILGANDRA

NARROMINE

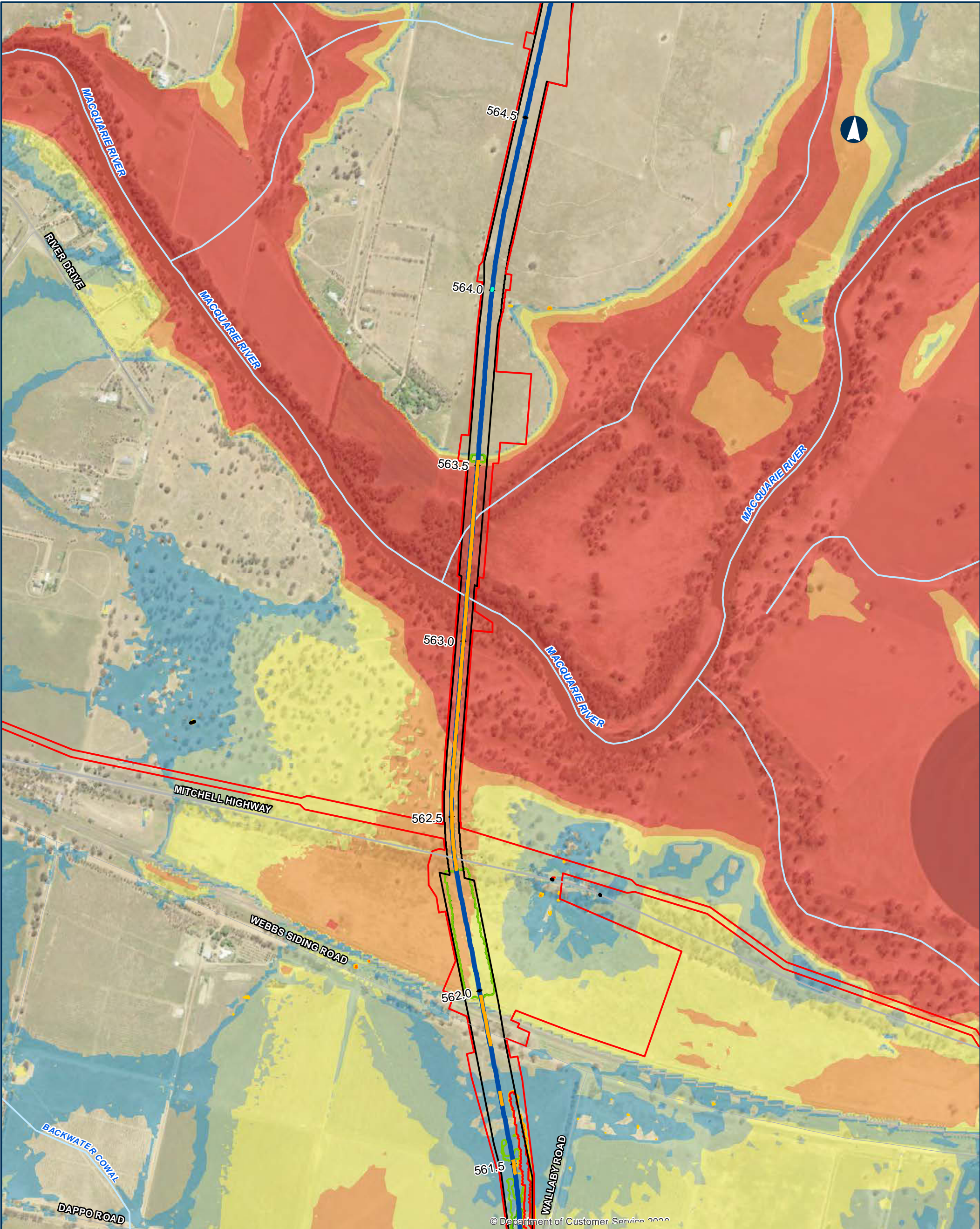
DUBBO

INLAND RAIL

ARTC

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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.6

0200400

Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 9/08/2022
Author: JacobsGHD
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

Paper: A3
Scale: 1:10,000

Bridge

Culvert

Road QDL departure

Alignment

Primary road

Local road

Watercourse

The proposal

Rail Corridor

Afflux contour

-300mm

-200mm

100mm

200mm

300mm

Area of departure

Agricultural >200mm Increase

Existing Flood Depth

0.0m - 0.25m

0.25m - 0.5m

0.5m - 1.0m

1.0m - 2.0m

> 2.0m

NARRABRI

COONAMBLE

BARADINE

GILGANDRA

NARROMINE

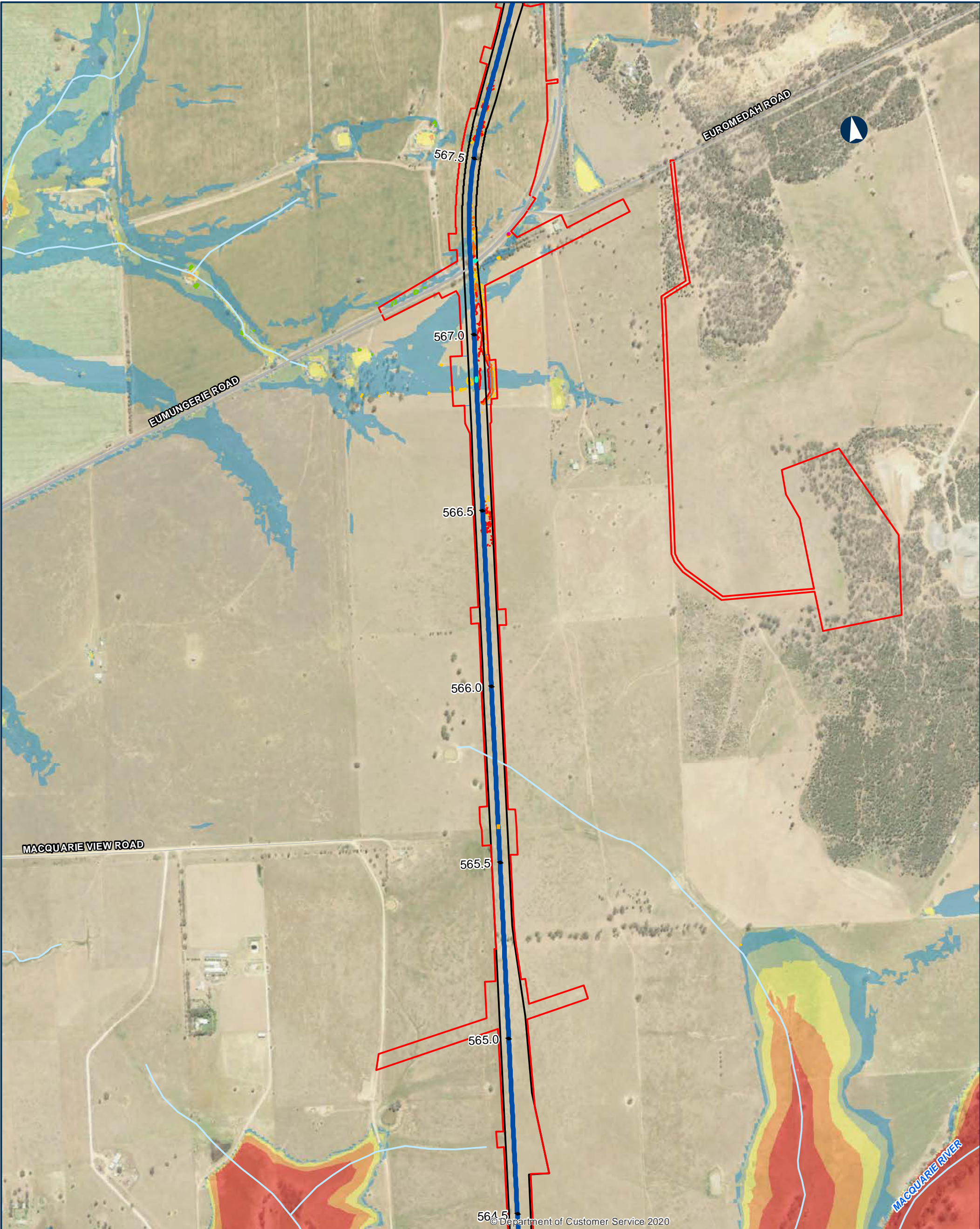
DUBBO

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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.7

0200400

Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 9/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

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

Bridge

Culvert

Alignment

Arterial road

Local road

Watercourse

The proposal

Drainage Control Area

Rail Corridor

Afflux contour

-300mm

-200mm

100mm

200mm

300mm

Area of departure

Other non-urban >300mm increase

Existing Flood Depth

0.0m - 0.25m

0.25m - 0.5m

0.5m - 1.0m

1.0m - 2.0m

> 2.0m

NARRABRI

COONAMBLE

BARADINE

GILGANDRA

NARROMINE

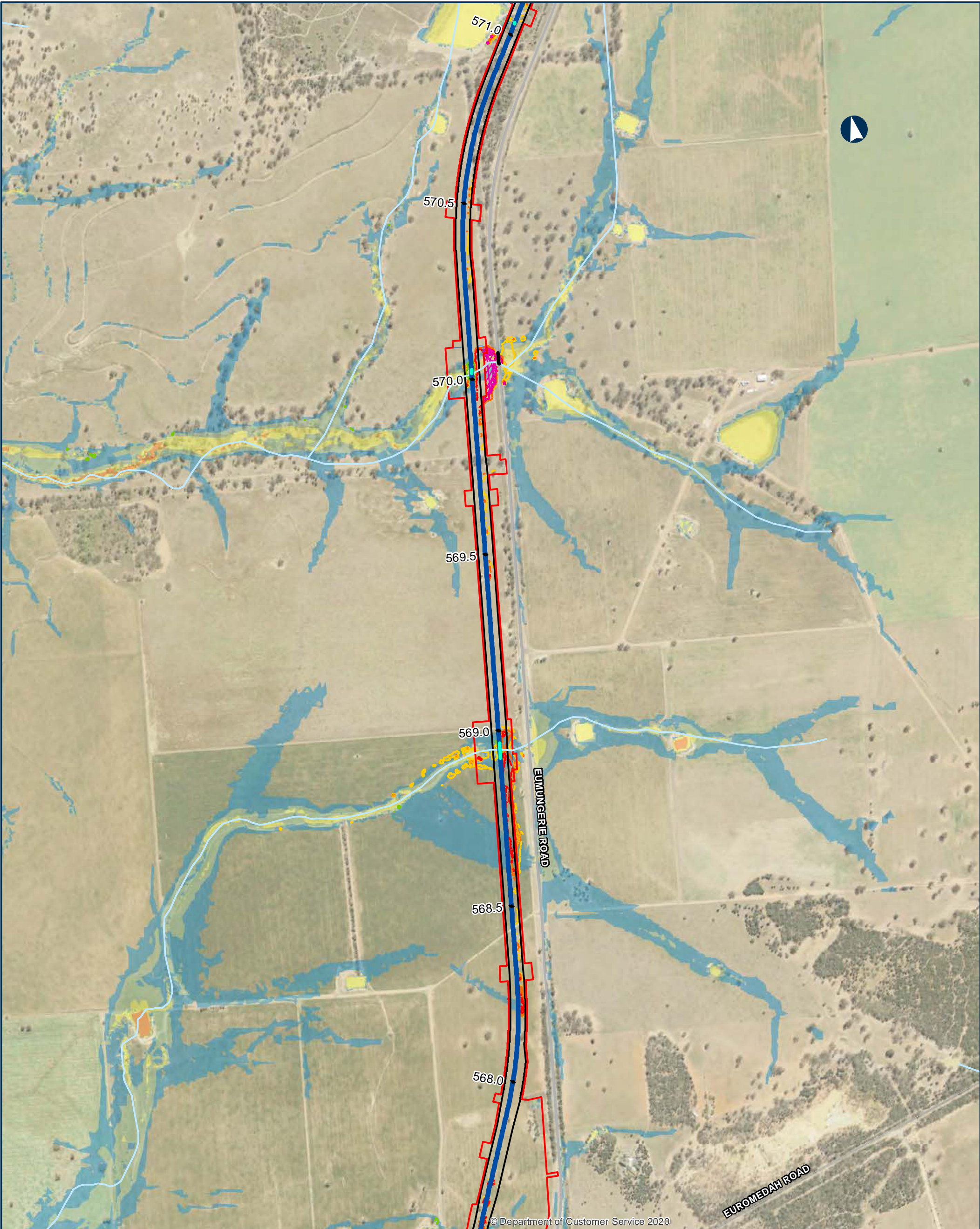
DUBBO

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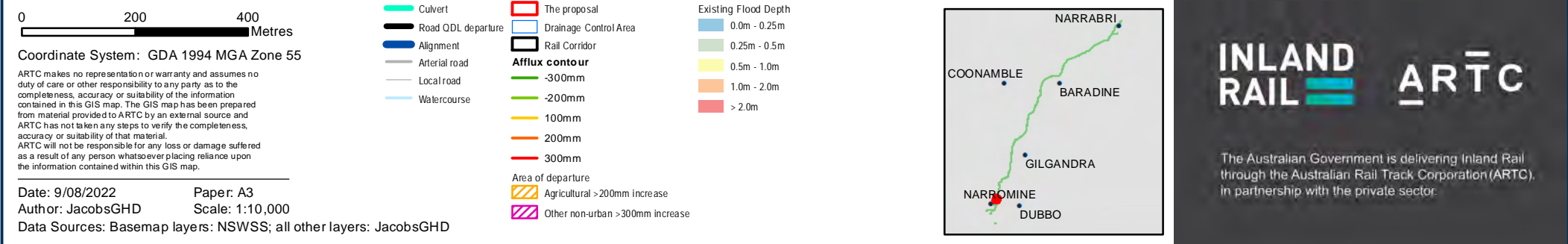
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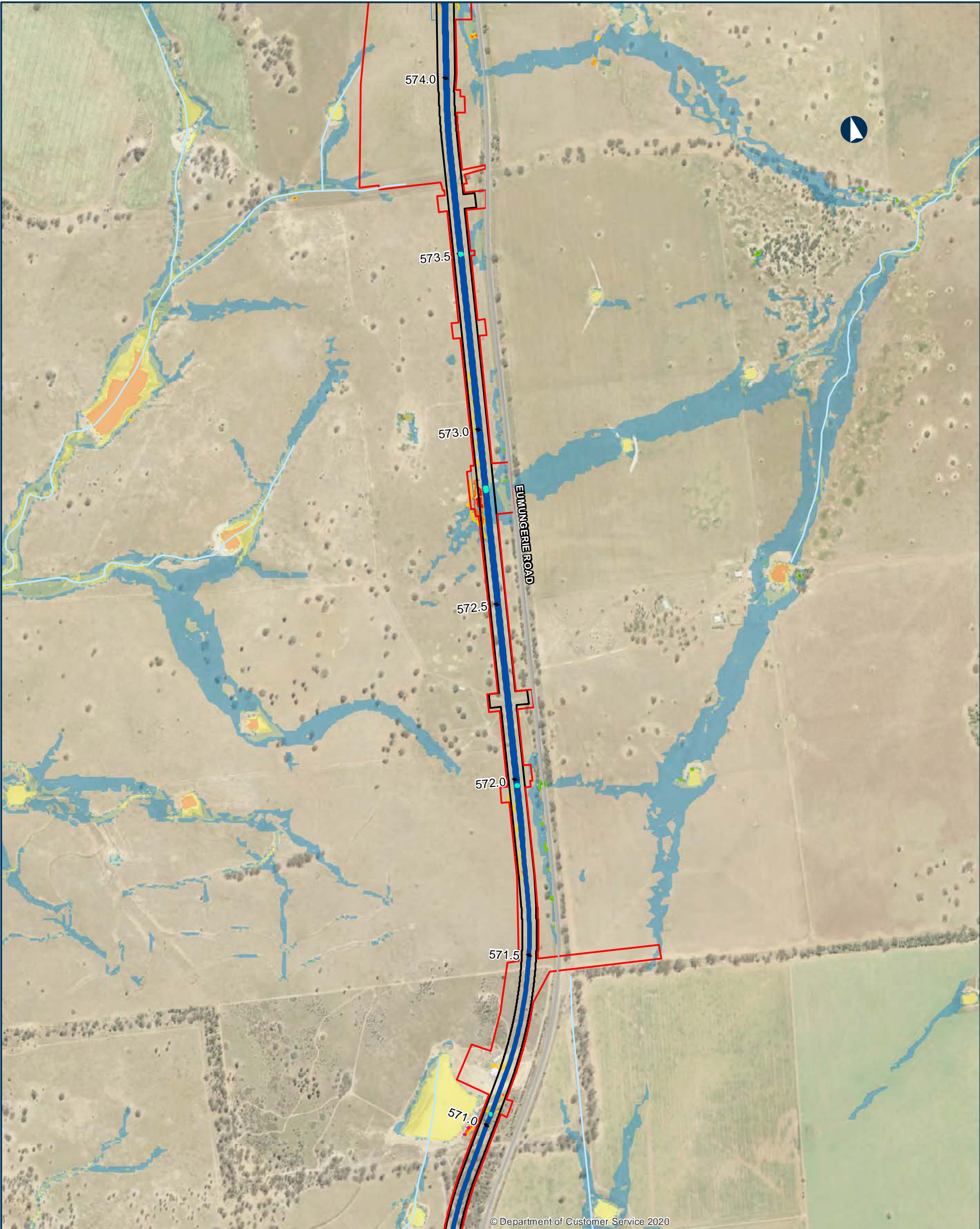


NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.8





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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

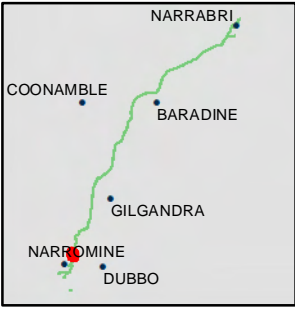
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Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

	Culvert		The proposal
	Alignment		Drainage Control Area
	Arterial road		Rail Corridor
	Watercourse		Afflux contour
			-300mm
			-200mm
			100mm
			200mm
			300mm
			Area of departure
			Agricultural >200mm increase
			Other non-urban >300mm increase

Existing Flood Depth

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



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.10

0 200 400 Metres

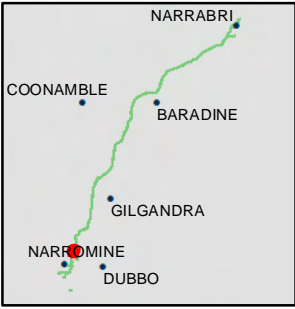
Coordinate System: GDA 1994 MGA Zone 55

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

- Culvert
- Road QDL departure
- Alignment
- Arterial road
- Local road
- Watercourse
- The proposal
- Drainage Control Area
- Rail Corridor
- Afflux contour
 - 300mm
 - 200mm
 - 100mm
 - 200mm
 - 300mm
- Area of departure
 - Urban and Infrastructure >100mm increase
 - Agricultural >200mm increase

- Existing Flood Depth
- 0.0m - 0.25m
 - 0.25m - 0.5m
 - 0.5m - 1.0m
 - 1.0m - 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.11

0 200 400 Metres

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

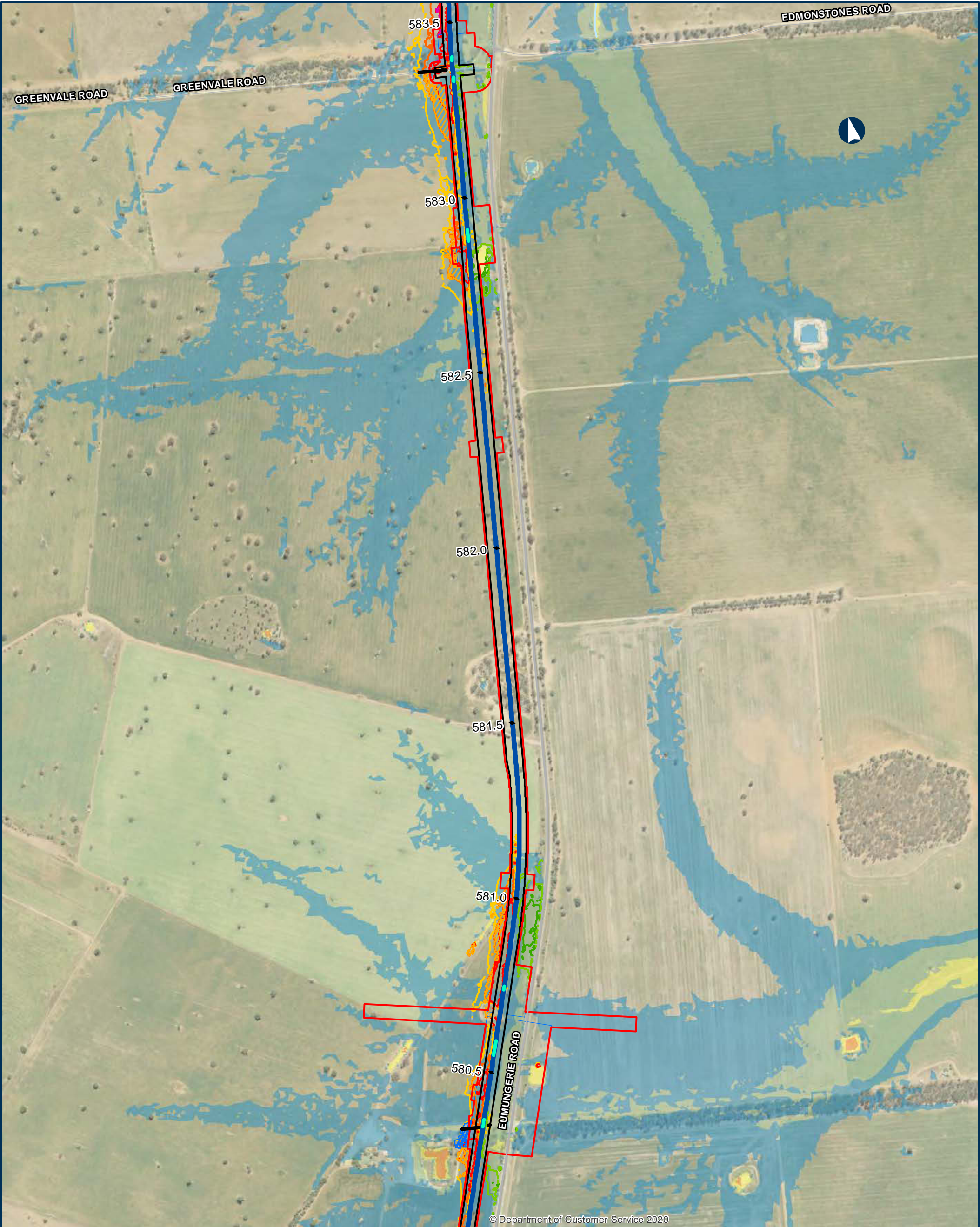
- Culvert
- Road QDL departure
- Alignment
- Arterial road
- Sub arterial road
- Watercourse
- The proposal
- Drainage Control Area
- Rail Corridor
- Afflux contour
 - 300mm
 - 200mm
 - 100mm
 - 200mm
 - 300mm
- Area of departure
 - Urban and Infrastructure >100mm increase
 - Agricultural >200mm increase

- Existing Flood Depth
- 0.0m - 0.25m
 - 0.25m - 0.5m
 - 0.5m - 1.0m
 - 1.0m - 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.12

0 200 400 Metres

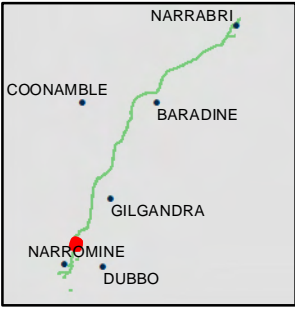
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Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Culvert
- Road QDL departure
- Alignment
- Arterial road
- Local road
- Watercourse
- The proposal
- Drainage Control Area
- Rail Corridor
- Afflux contour
 - 300mm
 - 200mm
 - 100mm
 - 200mm
 - 300mm
- Area of departure
 - Urban and Infrastructure >100mm increase
 - Agricultural >200mm increase
 - Other non-urban >300mm increase

- Existing Flood Depth
- 0.0m - 0.25m
 - 0.25m - 0.5m
 - 0.5m - 1.0m
 - 1.0m - 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.13

0 200 400 Metres

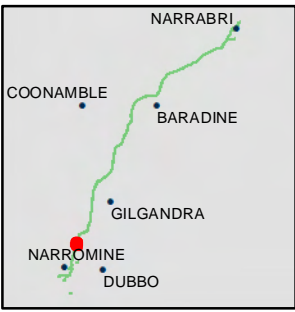
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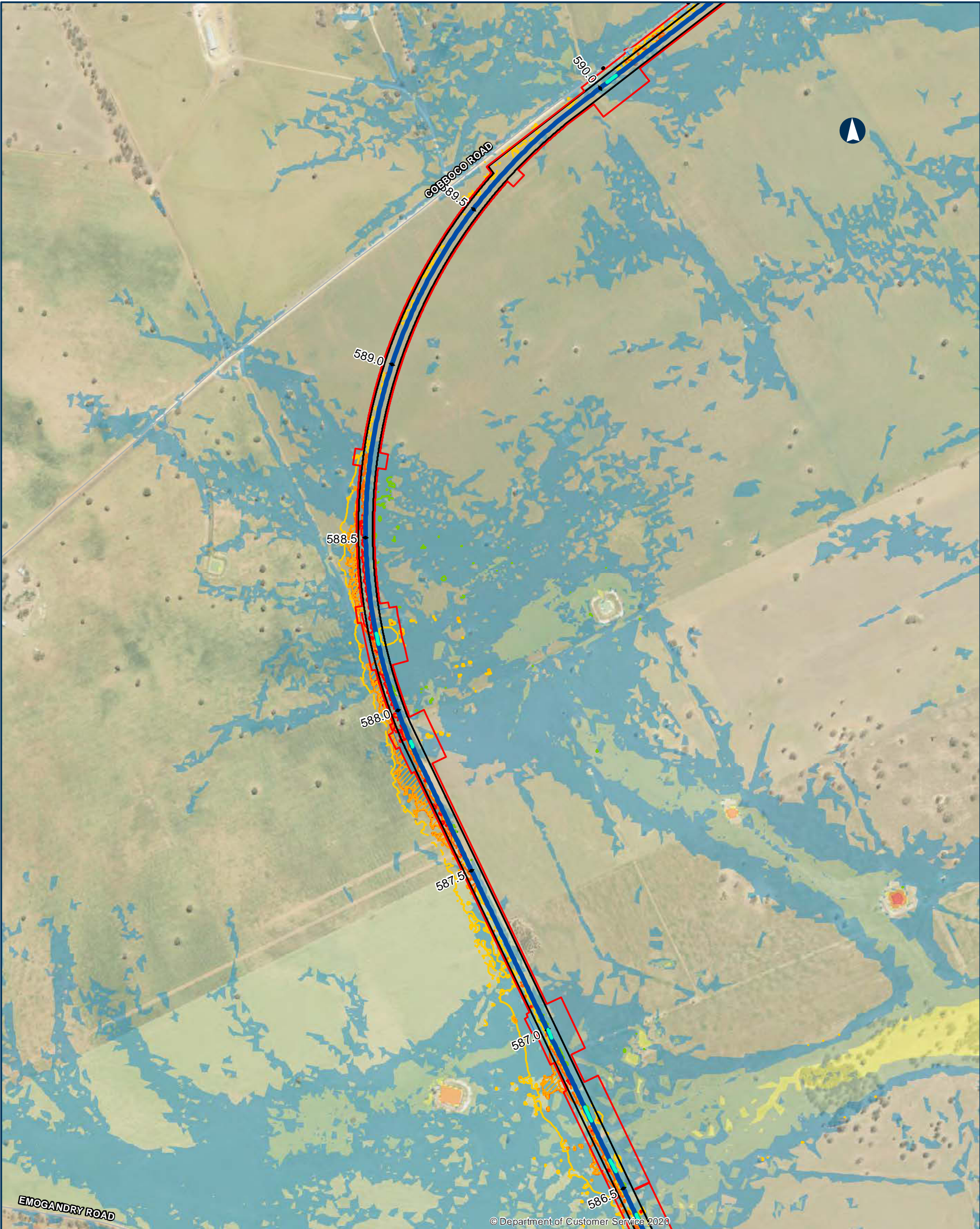
- Culvert
- Road QDL departure
- Alignment
- Arterial road
- Sub arterial road
- Local road
- Watercourse
- The proposal
- Drainage Control Area
- Rail Corridor
- Afflux contour
 - 300mm
 - 200mm
 - 100mm
 - 200mm
 - 300mm
- Area of departure
 - Agricultural >200mm increase
 - Other non-urban >300mm increase

- Existing Flood Depth
- 0.0m - 0.25m
 - 0.25m - 0.5m
 - 0.5m - 1.0m
 - 1.0m - 2.0m



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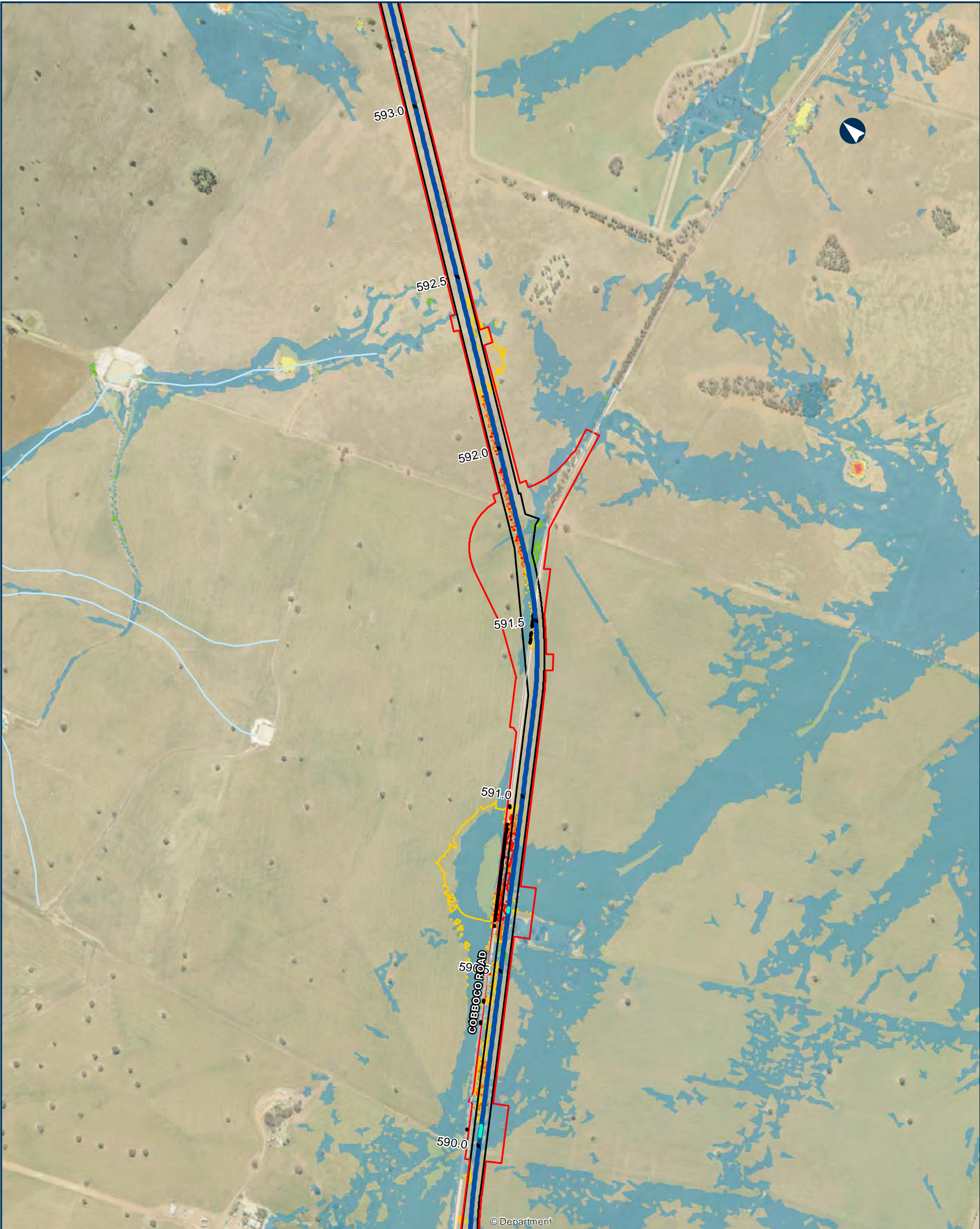


NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.14





NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.15

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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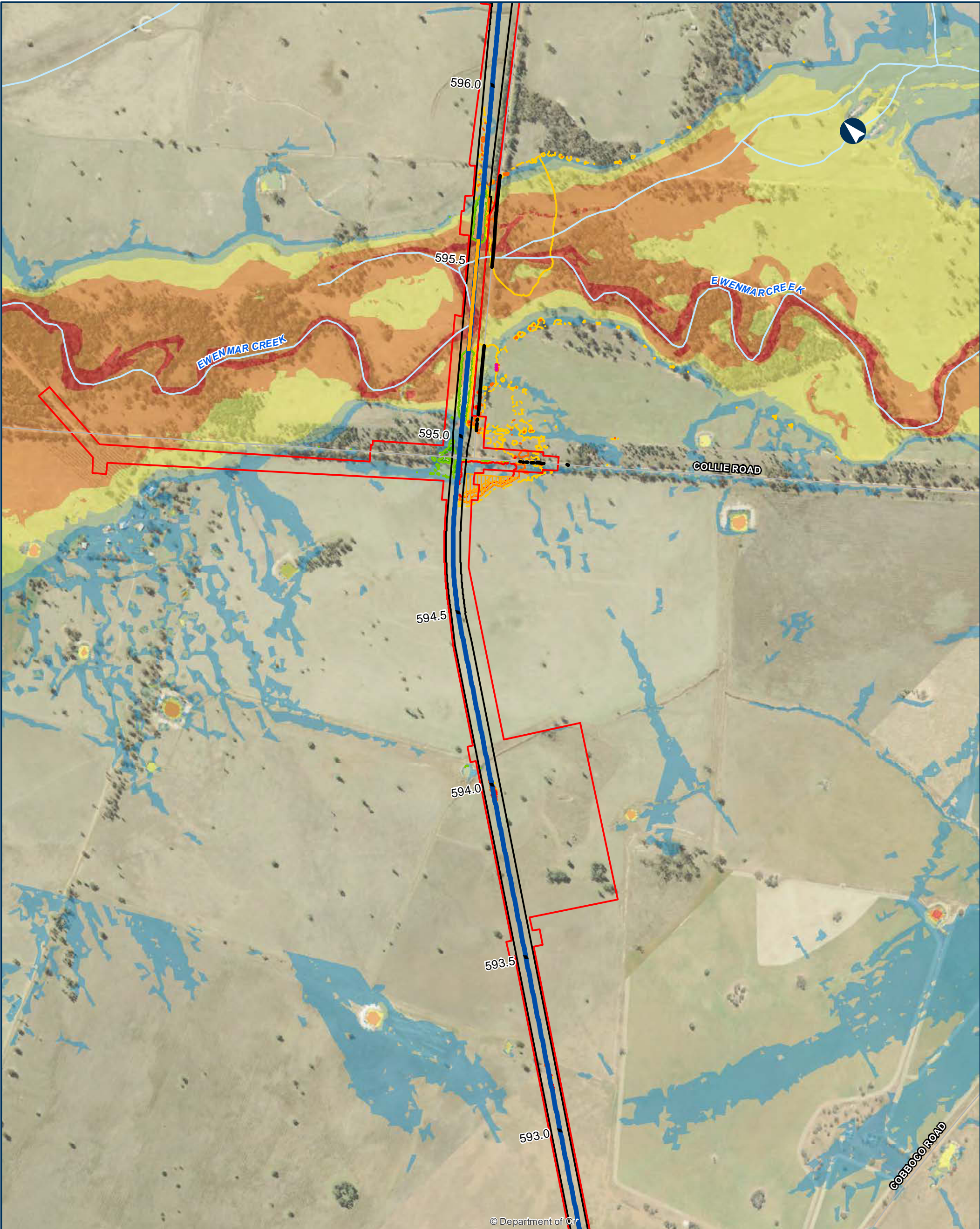
- Culvert
- Road QDL departure
- Alignment
- Sub arterial road
- Watercourse
- The proposal
- Drainage Control Area
- Rail Corridor
- Afflux contour
 - 300mm
 - 200mm
 - 100mm
 - 200mm
 - 300mm
- Area of departure
 - Agricultural >200mm increase

- Existing Flood Depth
- 0.0m - 0.25m
 - 0.25m - 0.5m
 - 0.5m - 1.0m
 - 1.0m - 2.0m
 - > 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.16

0 200 400 Metres

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

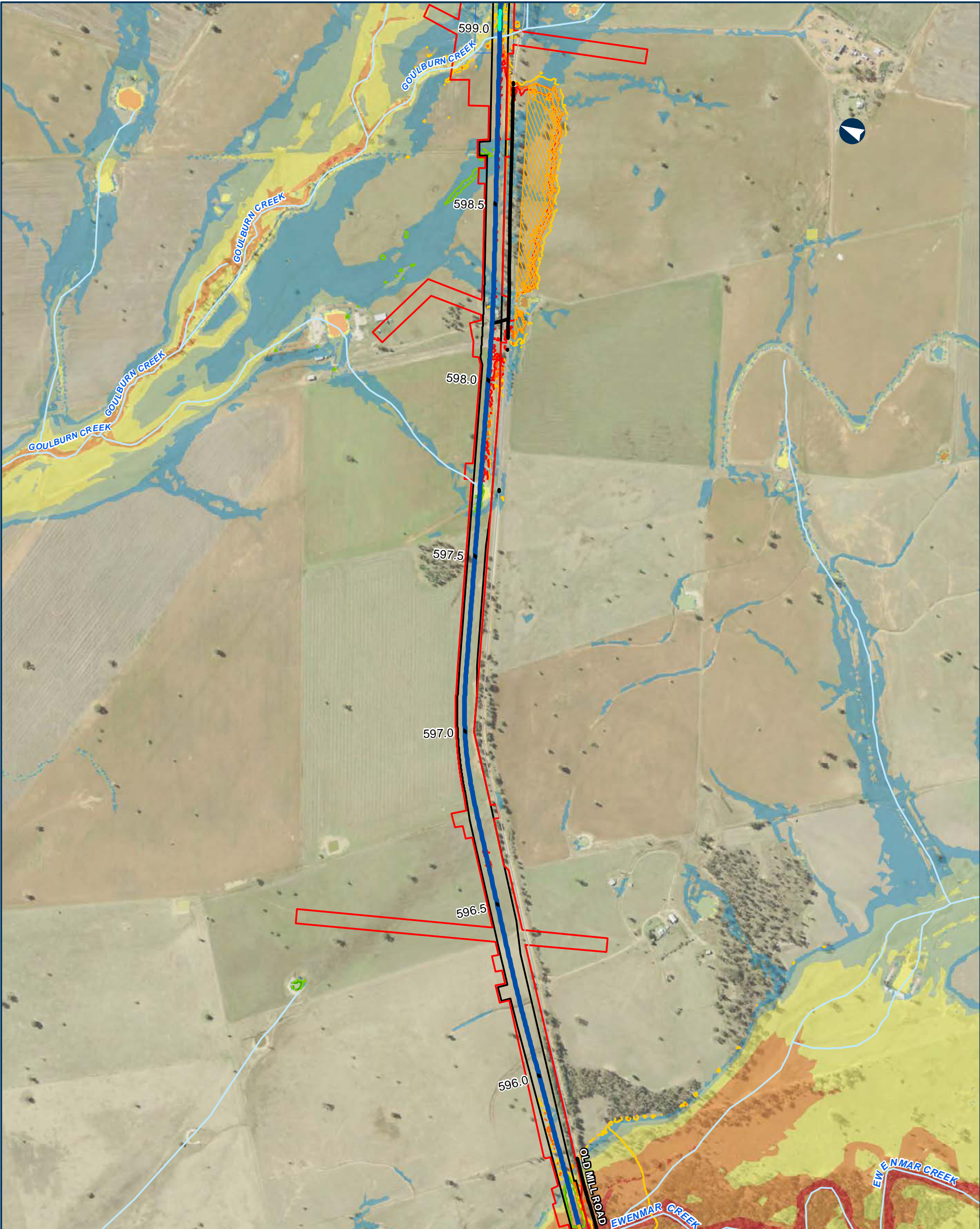
- Bridge
- Road QDL departure
- Alignment
- Sub arterial road
- Watercourse
- The proposal
- Rail Corridor
- Afflux contour
- 300mm
- 200mm
- 100mm
- 200mm
- 300mm
- Area of departure
- Agricultural >200mm Increase
- Other non-urban >300mm Increase

- Existing Flood Depth
- 0.0m - 0.25m
 - 0.25m - 0.5m
 - 0.5m - 1.0m
 - 1.0m - 2.0m
 - > 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.17

0 200 400 Metres

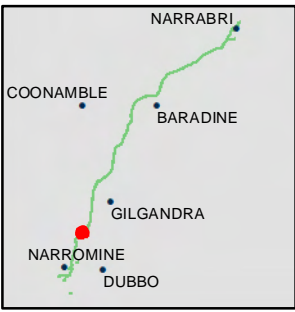
Coordinate System: GDA 1994 MGA Zone 55

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Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

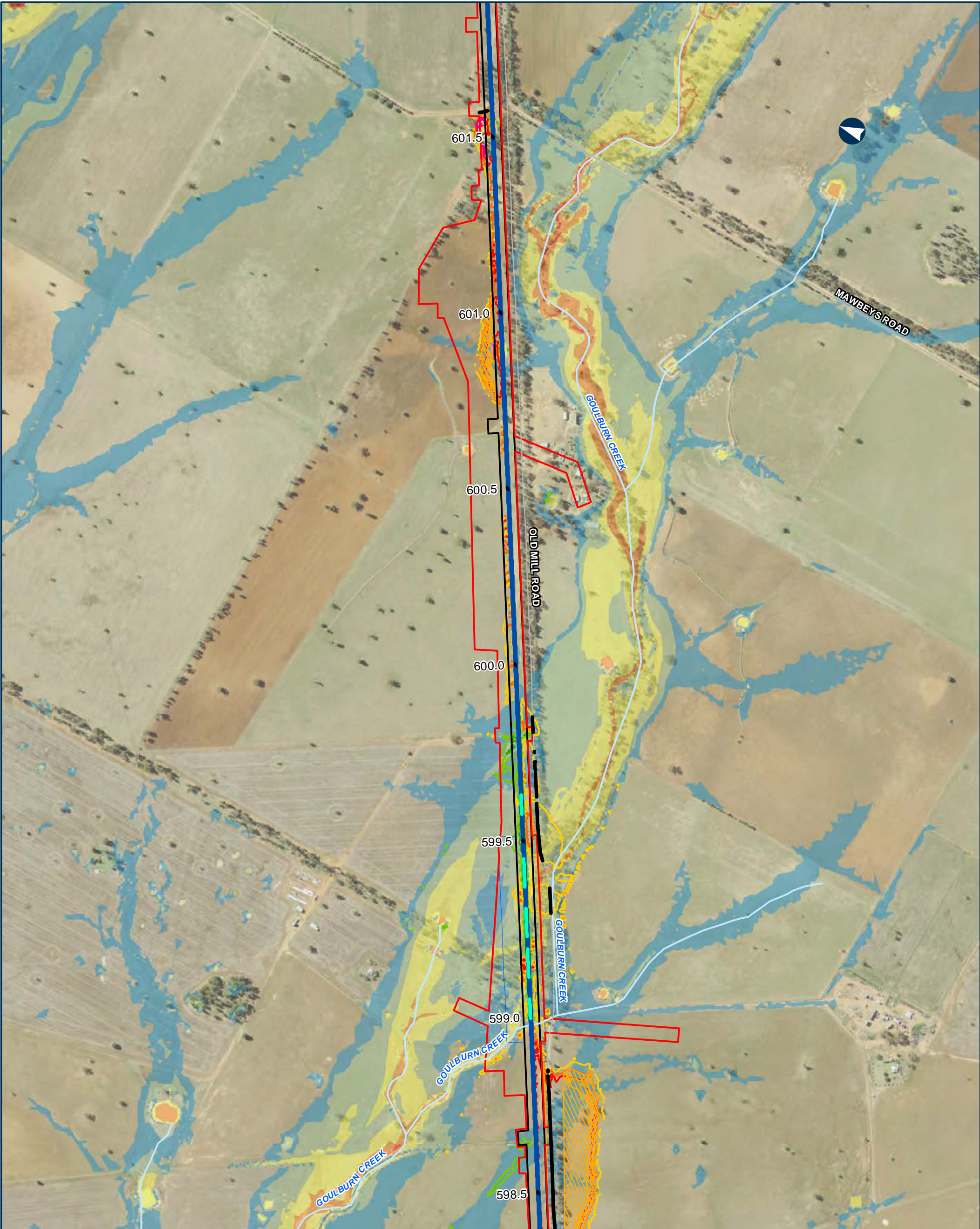
- Bridge
- Culvert
- Road QDL departure
- Alignment
- Sub arterial road
- Watercourse
- The proposal
- Drainage Control Area
- Rail Corridor
- Afflux contour
 - 300mm
 - 200mm
 - 100mm
 - 200mm
 - 300mm
- Area of departure
 - Agricultural >200mm increase

- Existing Flood Depth
- 0.0m - 0.25m
 - 0.25m - 0.5m
 - 0.5m - 1.0m
 - 1.0m - 2.0m
 - > 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.18

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

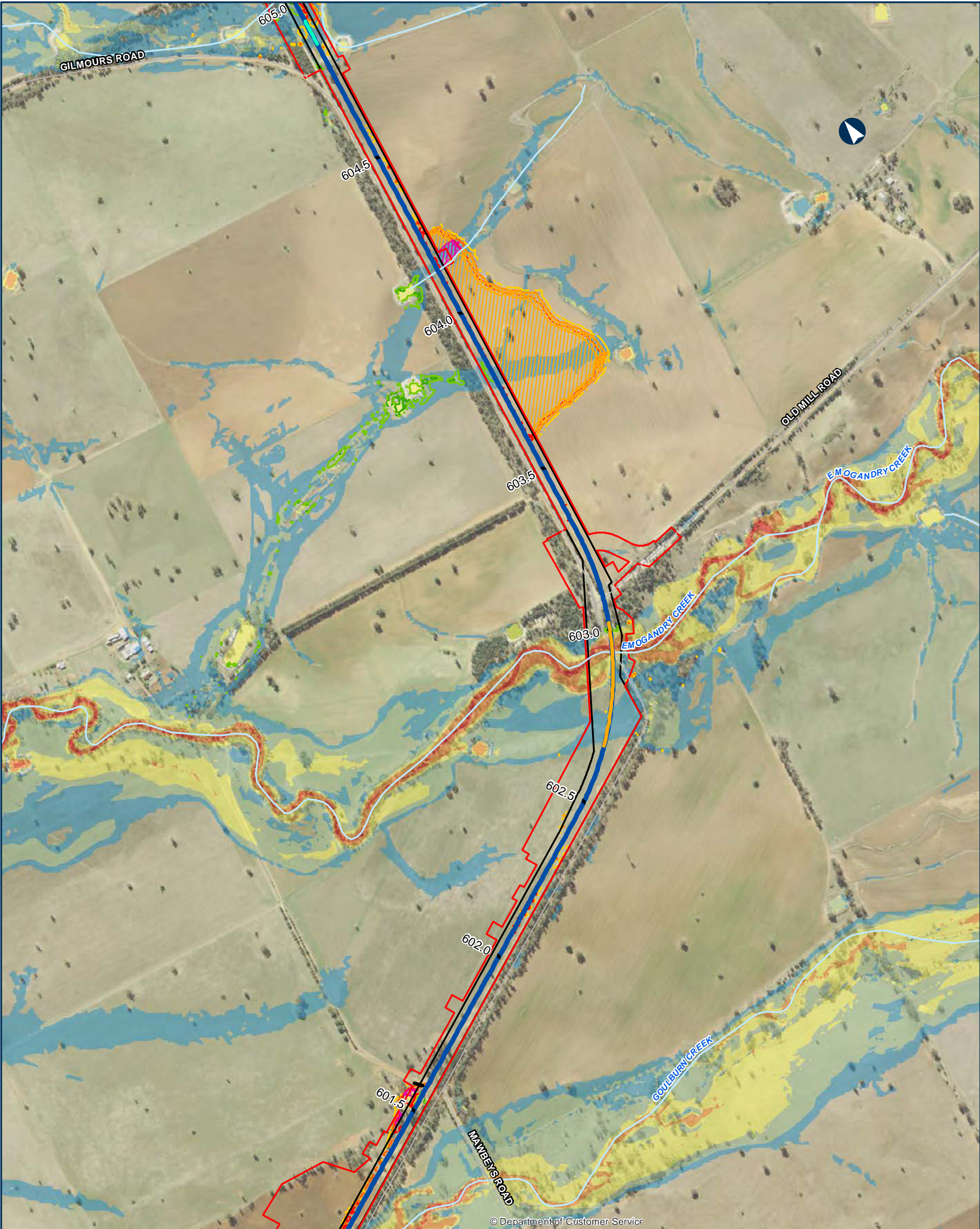
- Culvert
- Road QDL departure
- Alignment
- Sub arterial road
- Watercourse
- The proposal
- Drainage Control Area
- Rail Corridor
- Afflux contour
 - 300mm
 - 200mm
 - 100mm
 - 200mm
 - 300mm
- Area of departure
 - Agricultural >200mm increase
 - Other non-urban >300mm increase

- Existing Flood Depth
- 0.0m - 0.25m
 - 0.25m - 0.5m
 - 0.5m - 1.0m
 - 1.0m - 2.0m
 - > 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.19

0 200 400 Metres

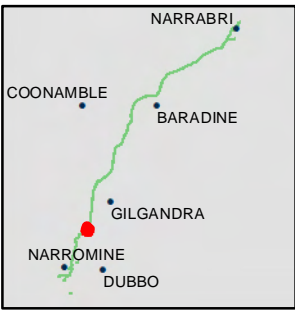
Coordinate System: GDA 1994 MGA Zone 55

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Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Bridge
- Culvert
- Road QDL departure
- Alignment
- Sub arterial road
- Watercourse
- The proposal
- Drainage Control Area
- Rail Corridor
- Afflux contour
 - 300mm
 - 200mm
 - 100mm
 - 200mm
 - 300mm
- Area of departure
 - Agricultural >200mm increase
 - Other non-urban >300mm increase

- Existing Flood Depth
- 0.0m - 0.25m
 - 0.25m - 0.5m
 - 0.5m - 1.0m
 - 1.0m - 2.0m
 - > 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.20

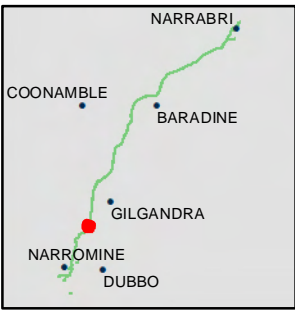
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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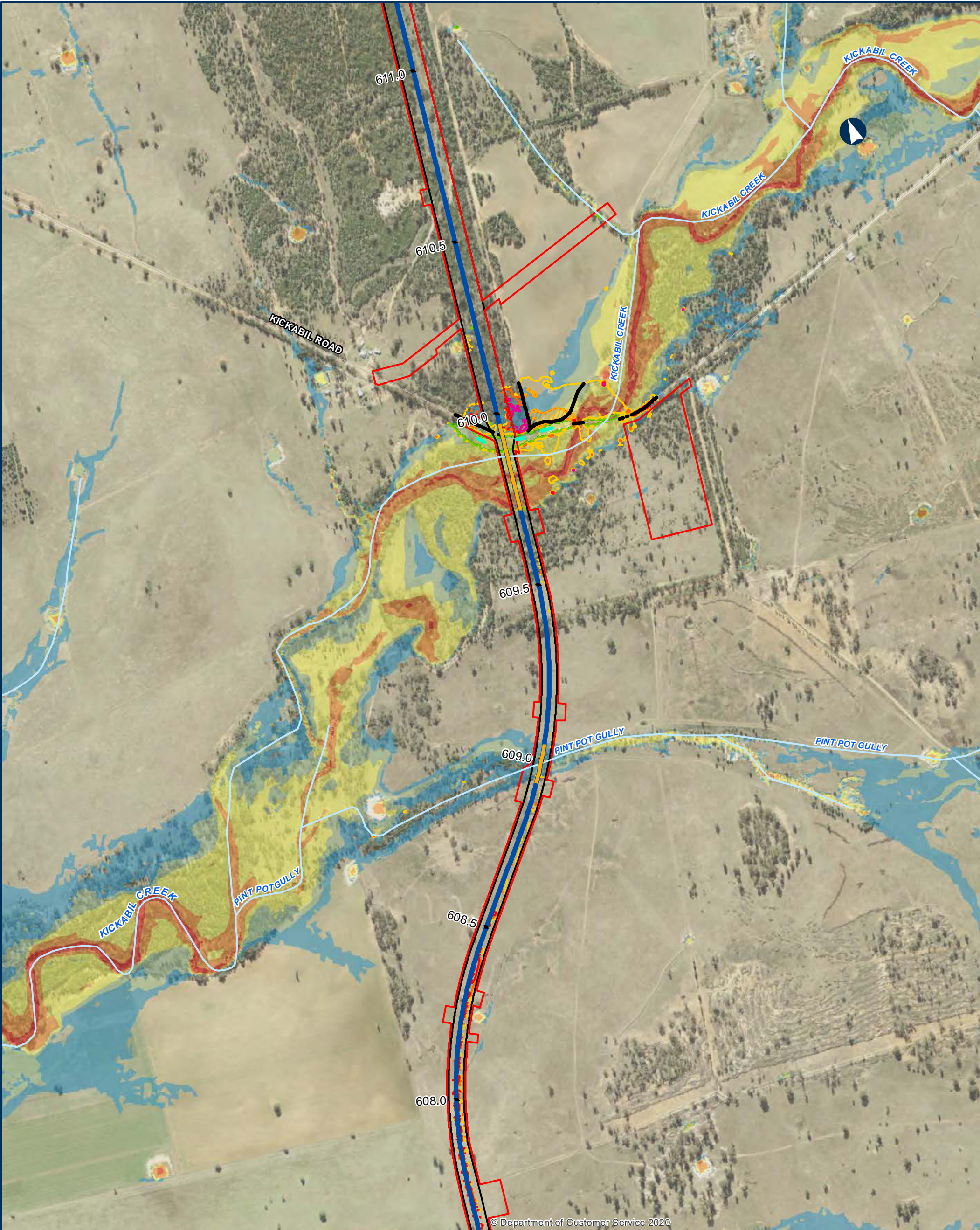
Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Bridge
- Culvert
- Alignment
- Sub arterial road
- Watercourse
- The proposal
- Drainage Control Area
- Rail Corridor
- Afflux contour
 - 300mm
 - 200mm
 - 100mm
 - 200mm
 - 300mm
- Area of departure
 - Agricultural >200mm increase
 - Other non-urban >300mm increase
- Existing Flood Depth
 - 0.0m - 0.25m
 - 0.25m - 0.5m
 - 0.5m - 1.0m
 - 1.0m - 2.0m
 - > 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.21

0 200 400 Metres

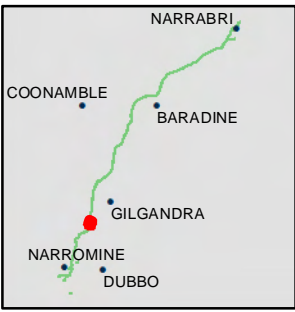
Coordinate System: GDA 1994 MGA Zone 55

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Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

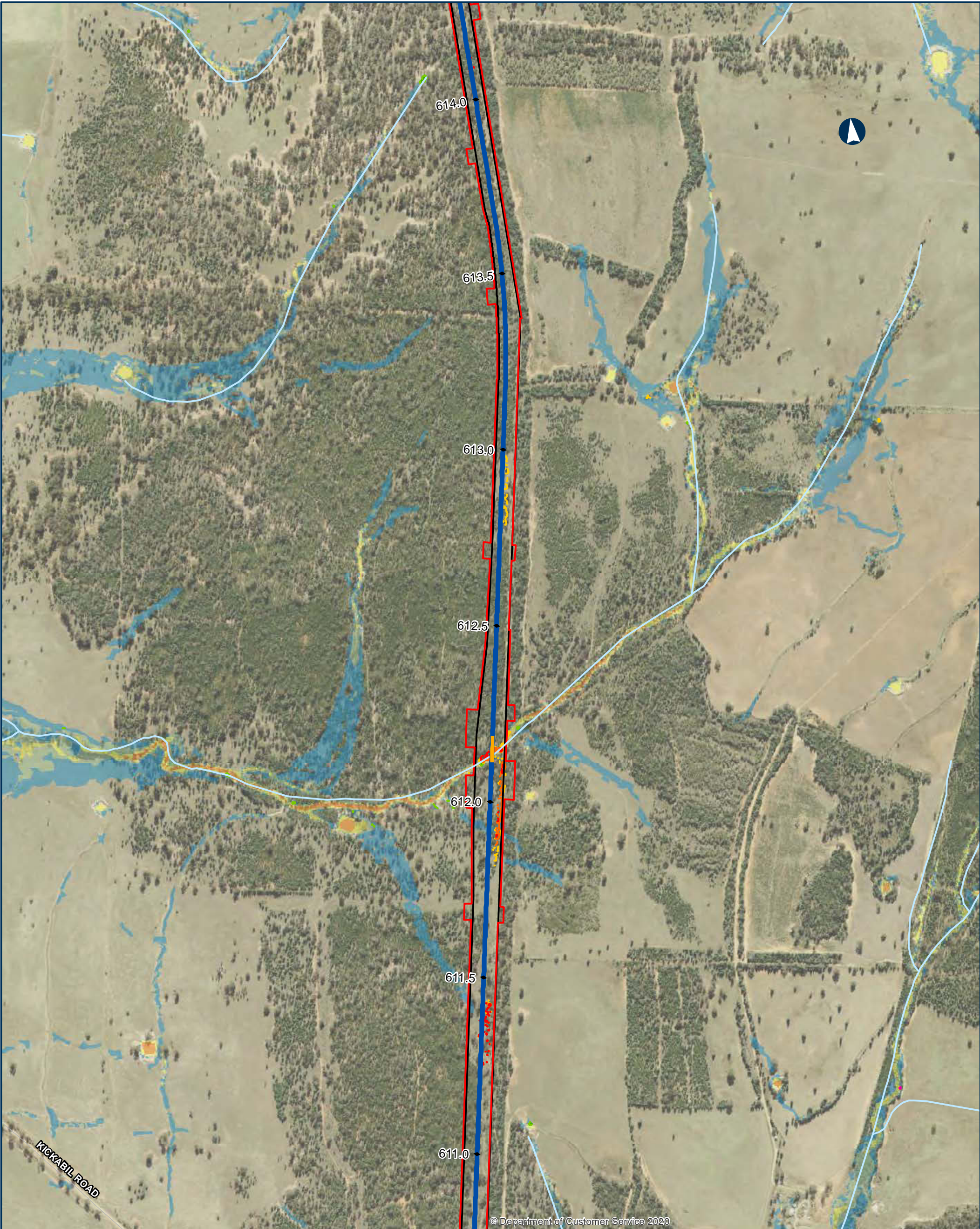
- Bridge
- Culvert
- Road QDL departure
- Alignment
- Local road
- Watercourse
- The proposal
- Rail Corridor
- Afflux contour
- 300mm
- 200mm
- 100mm
- 200mm
- 300mm
- Area of departure
- Agricultural >200mm increase
- Other non-urban >300mm increase

- Existing Flood Depth
- 0.0m - 0.25m
 - 0.25m - 0.5m
 - 0.5m - 1.0m
 - 1.0m - 2.0m
 - > 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.22

0 200 400 Metres

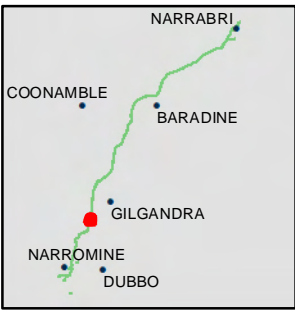
Coordinate System: GDA 1994 MGA Zone 55

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

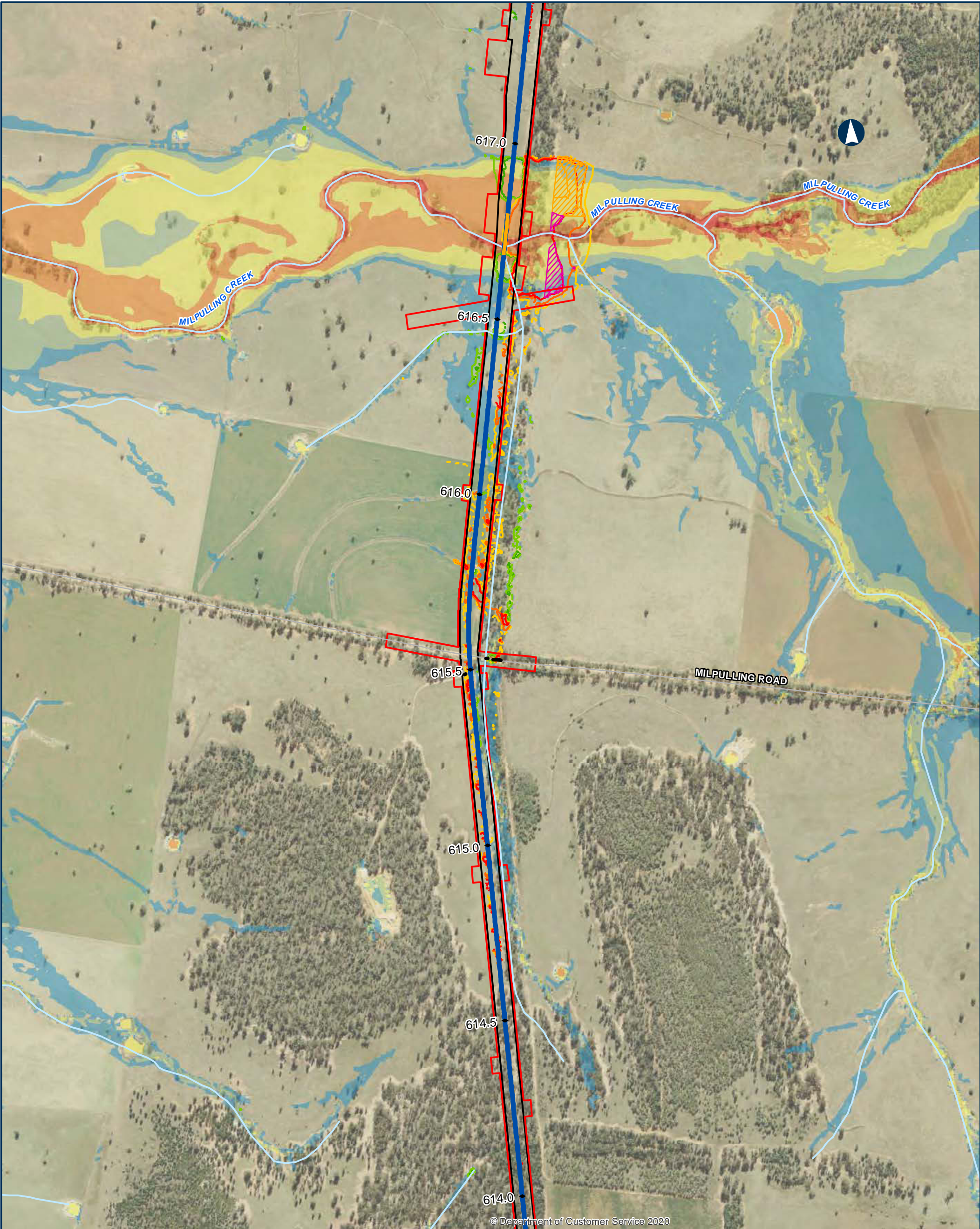
- Bridge
- Alignment
- Local road
- Watercourse
- The proposal
- Rail Corridor
- Afflux contour
- 300mm
- 200mm
- 100mm
- 100mm
- 200mm
- 300mm
- Area of departure
- Other non-urban >300mm increase

- Existing Flood Depth
- 0.0m - 0.25m
 - 0.25m - 0.5m
 - 0.5m - 1.0m
 - 1.0m - 2.0m



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NARROMINE TO NARRABRI

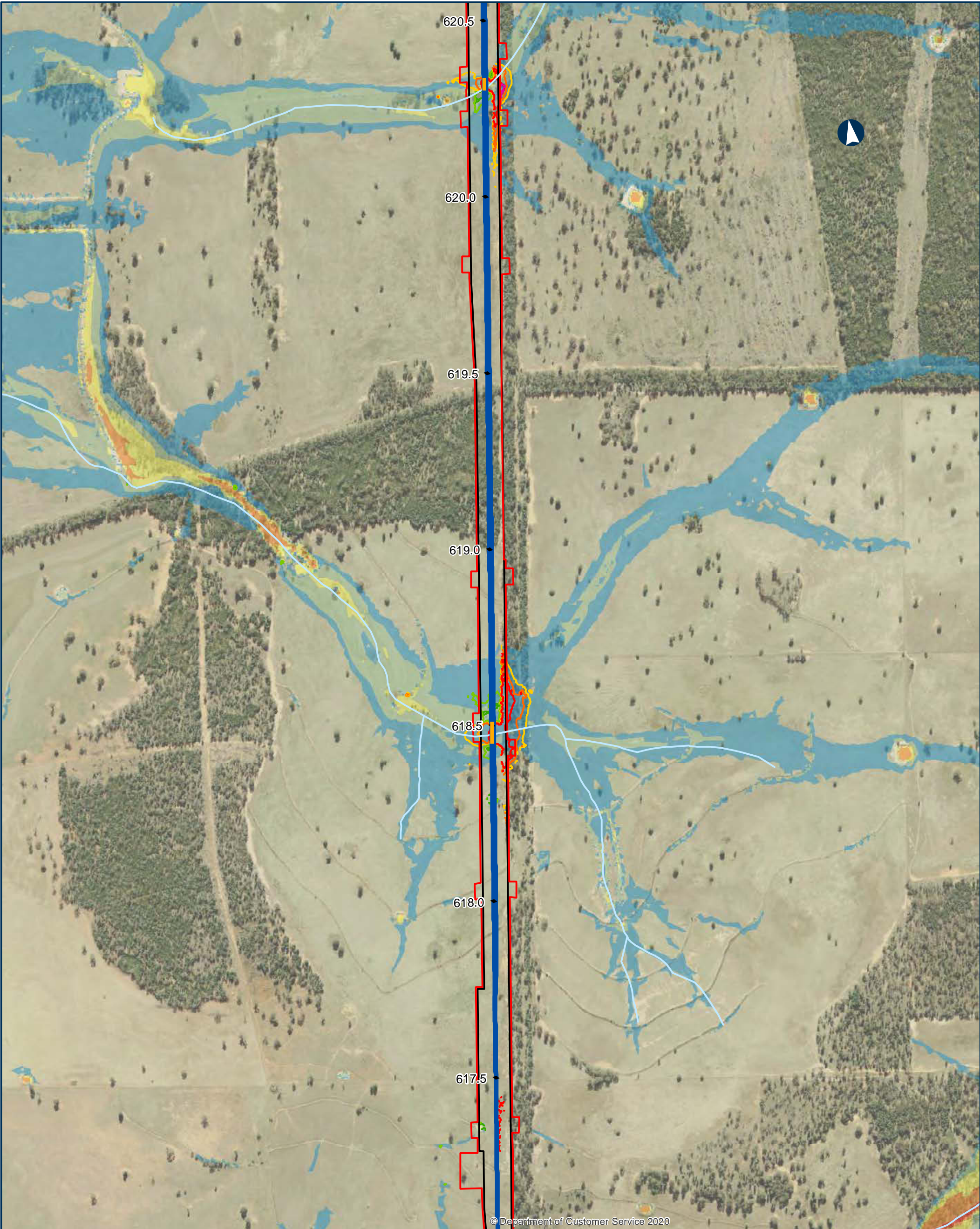
QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.23



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QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.24

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 9/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

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

Bridge

Alignment

Watercourse

The proposal

Rail Corridor

Afflux contour

-300mm

-200mm

100mm

200mm

300mm

Area of departure

Agricultural >200mm increase

Other non-urban >300mm increase

Existing Flood Depth

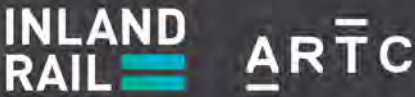
0.0m - 0.25m

0.25m - 0.5m

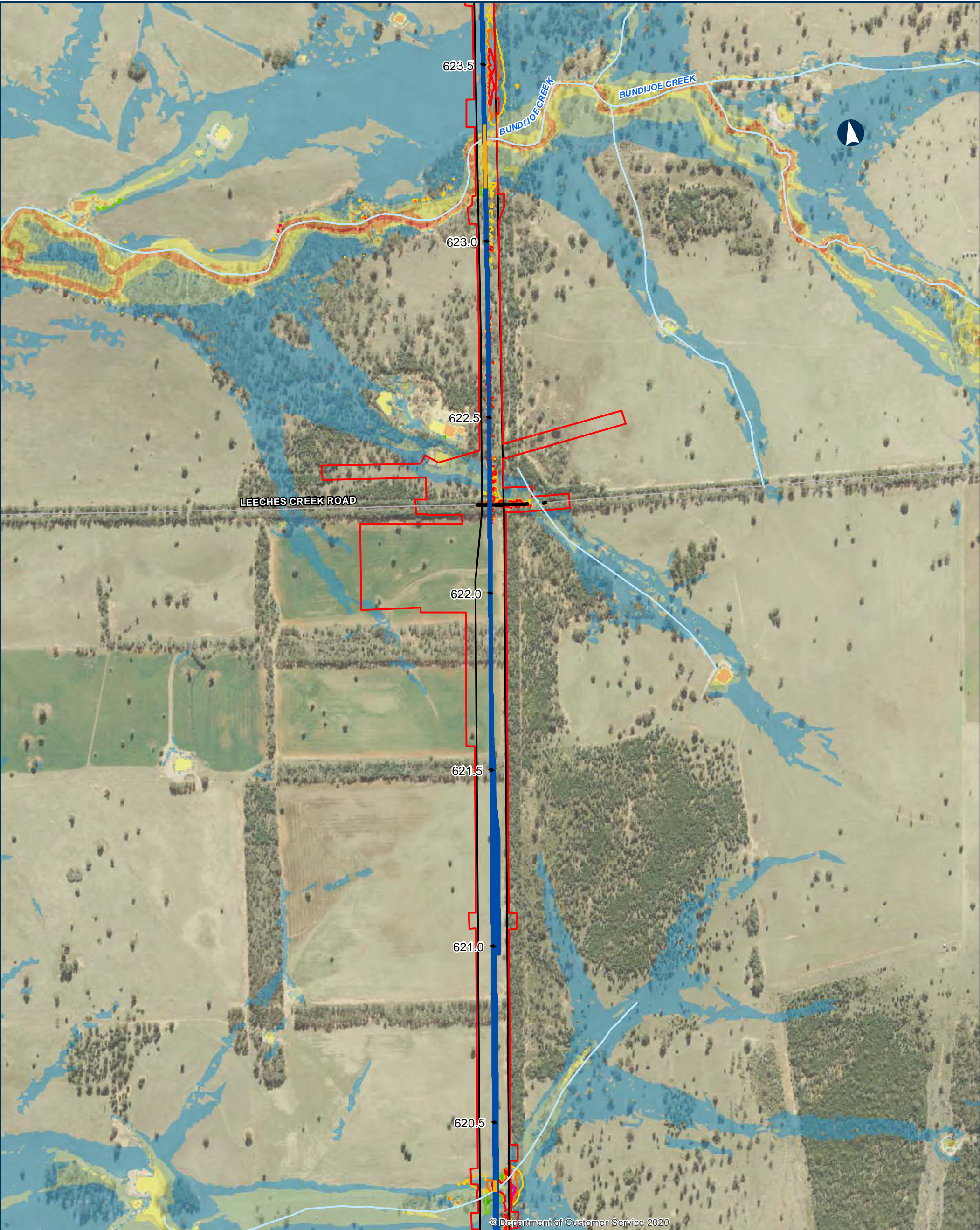
0.5m - 1.0m

1.0m - 2.0m

> 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.25

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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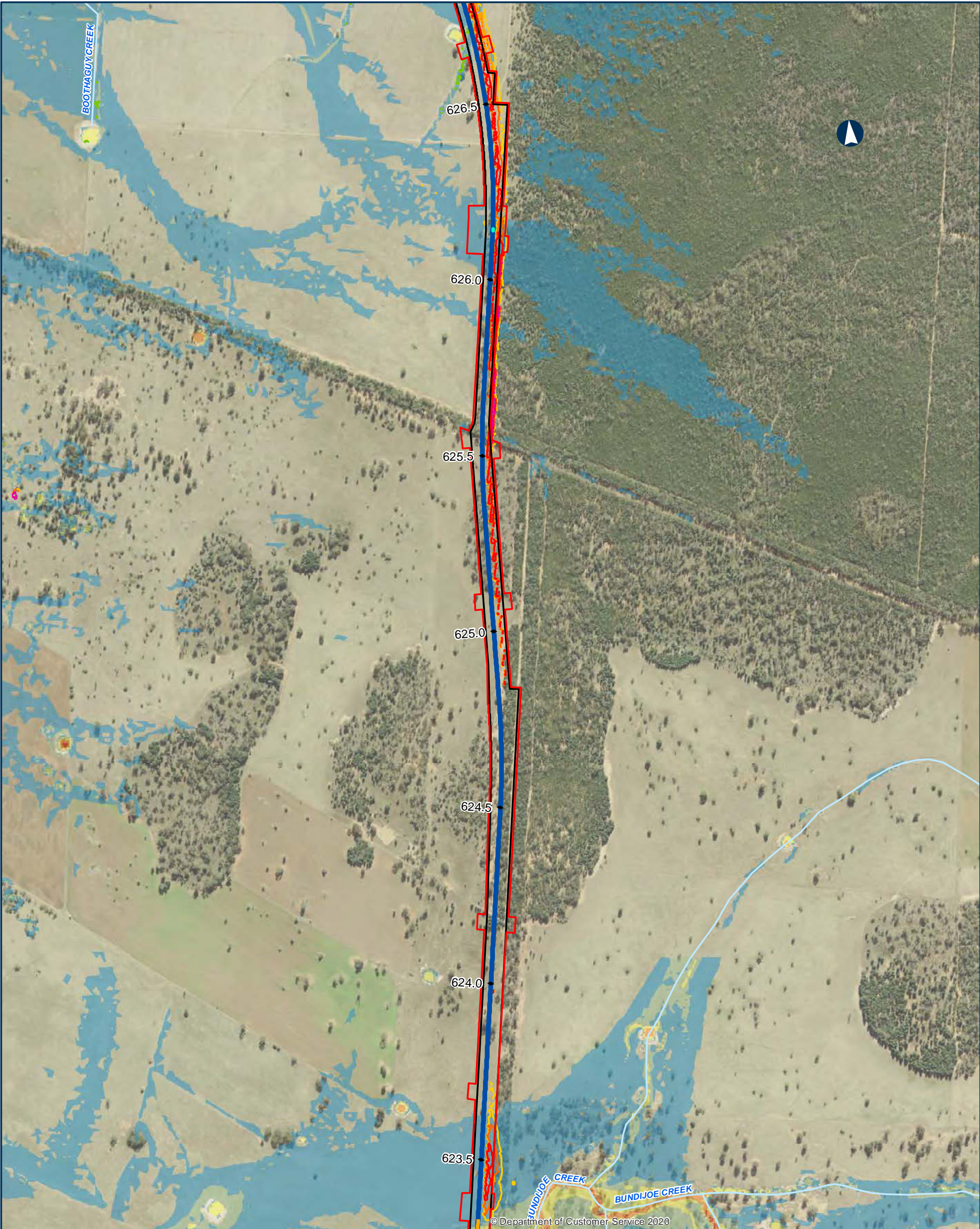
Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Bridge
- Road QDL departure
- Alignment
- Sub arterial road
- Watercourse
- The proposal
- Rail Corridor
- Afflux contour
 - >300mm
 - >200mm
 - 100mm
 - 200mm
 - 300mm
- Area of departure
 - Agricultural >200mm Increase
 - Other non-urban >300mm Increase
- Existing Flood Depth
 - 0.0m - 0.25m
 - 0.25m - 0.5m
 - 0.5m - 1.0m
 - 1.0m - 2.0m
 - > 2.0m



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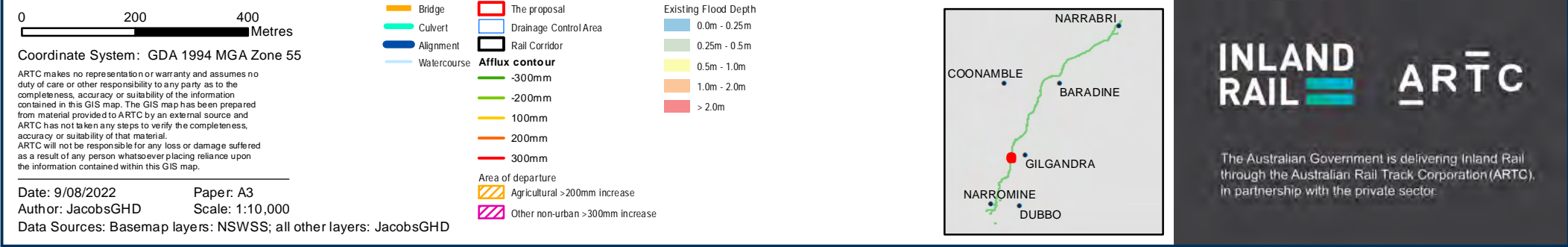
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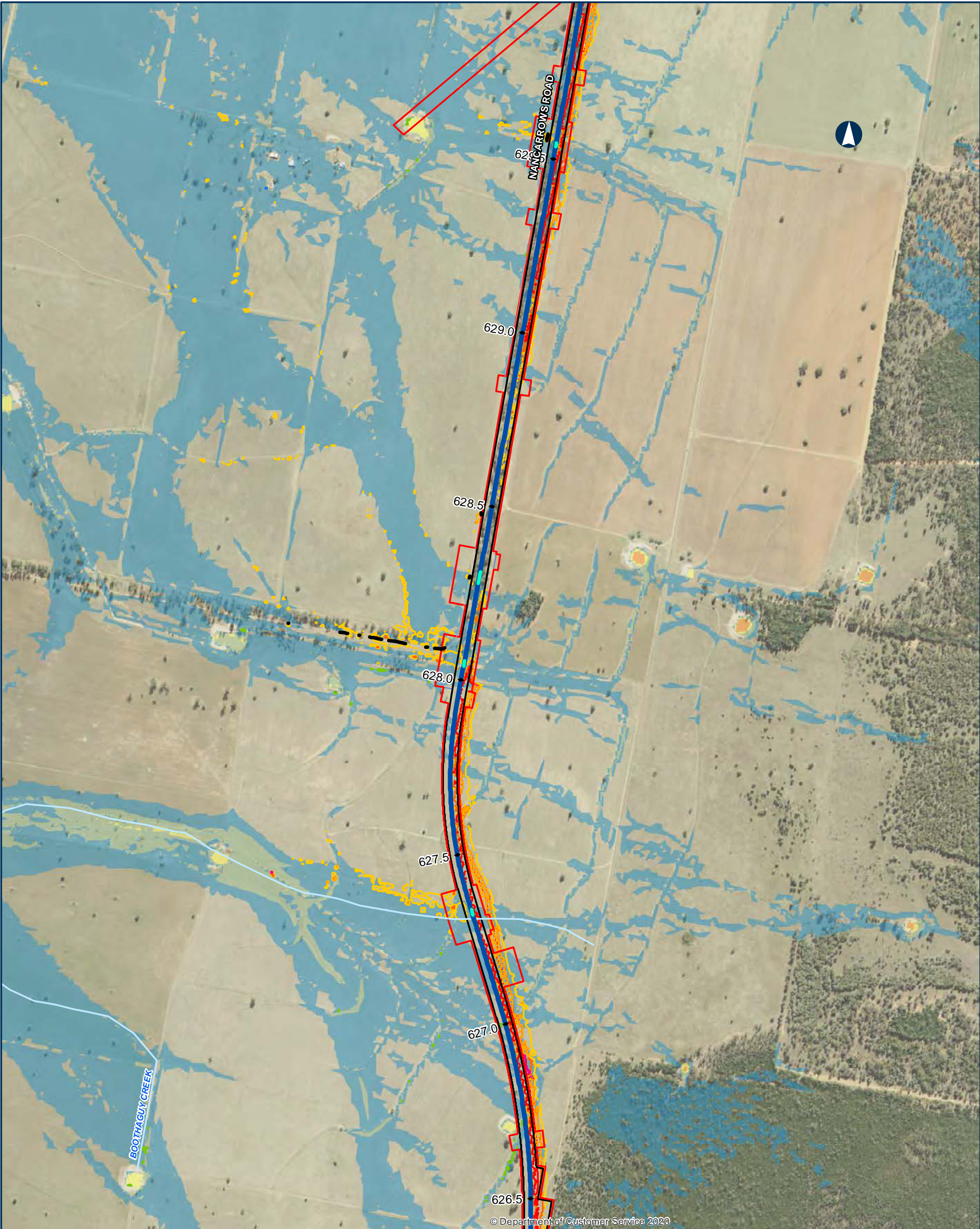


NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.26

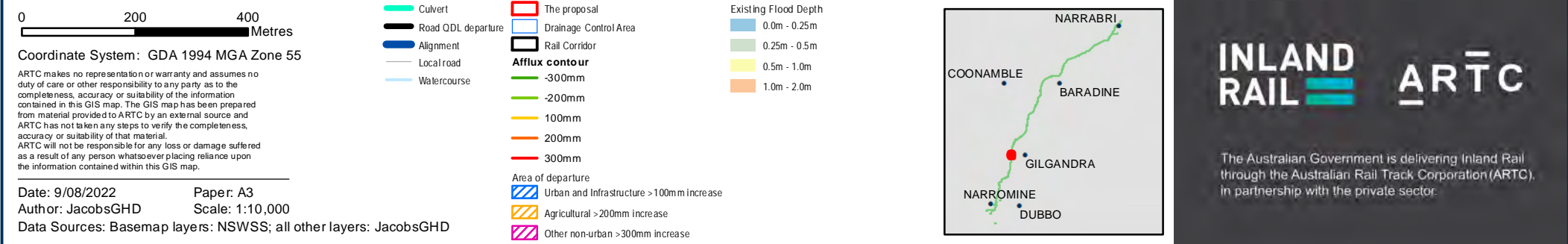


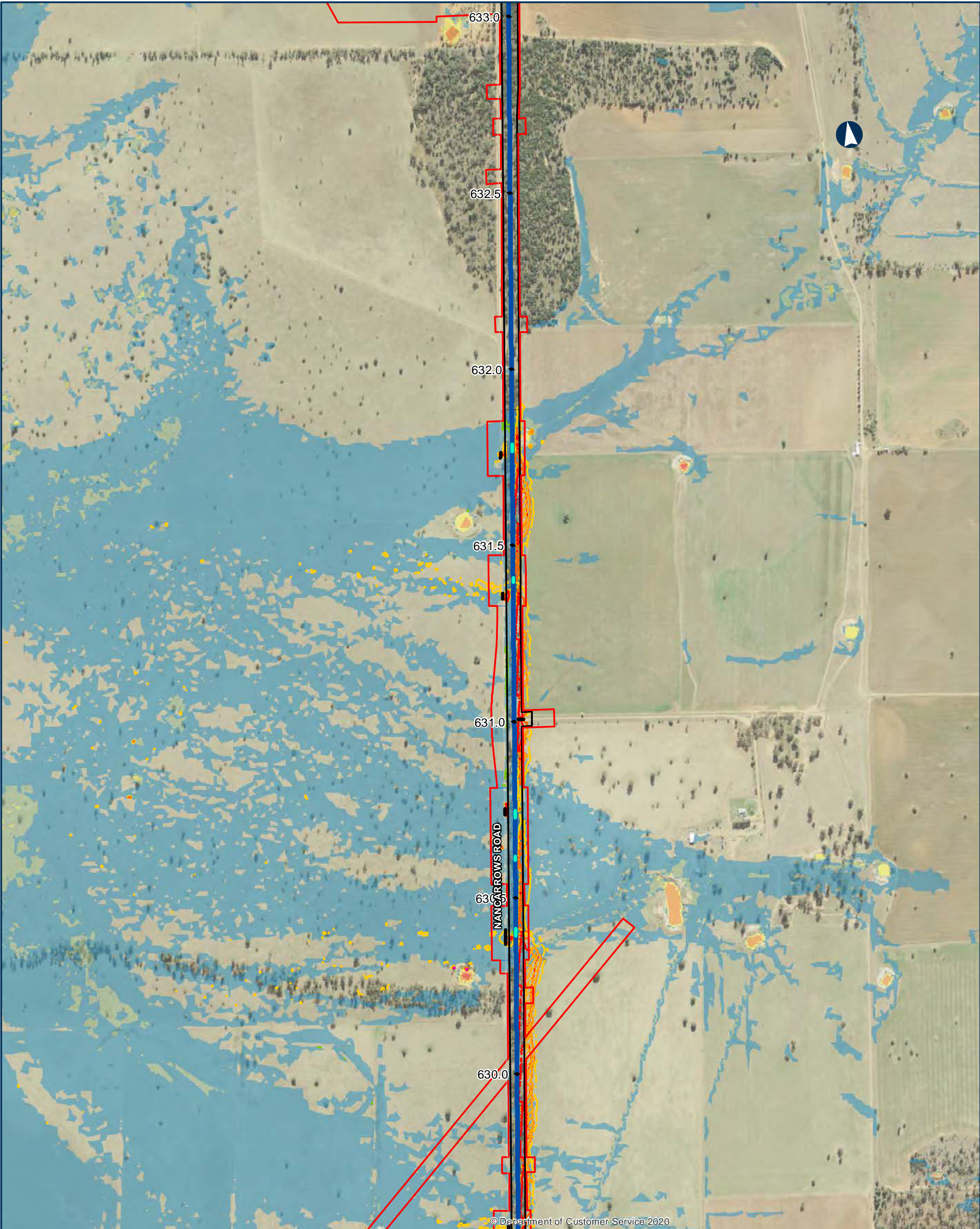


NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.27

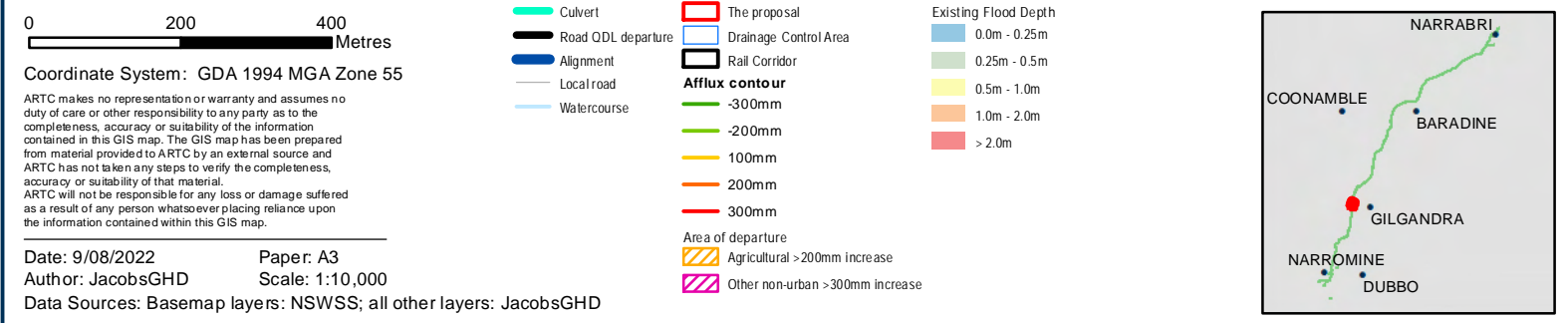




NARROMINE TO NARRABRI

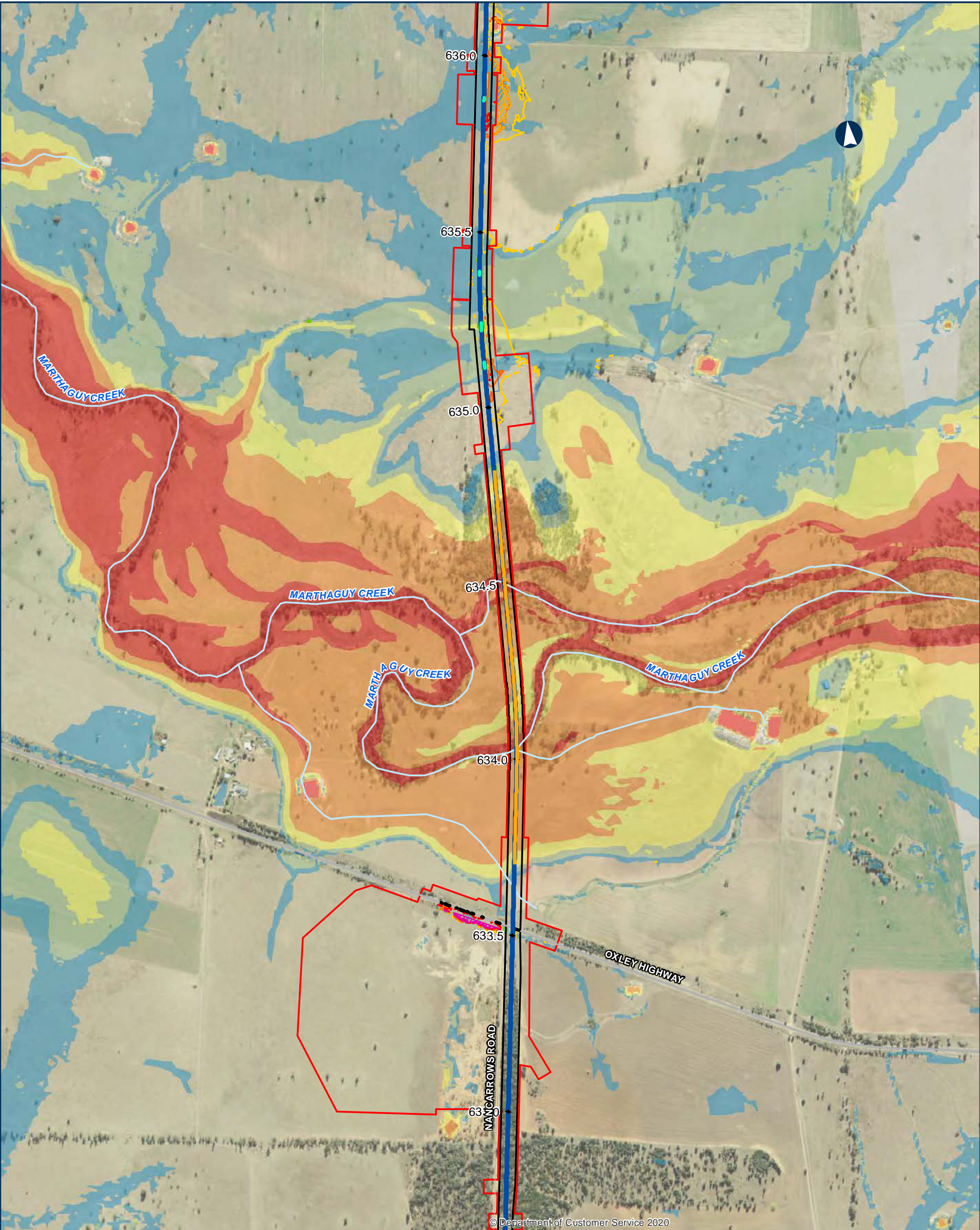
QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.28



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.29

0 200 400 Metres

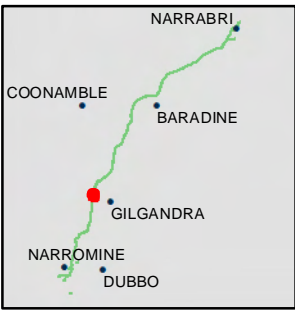
Coordinate System: GDA 1994 MGA Zone 55

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Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

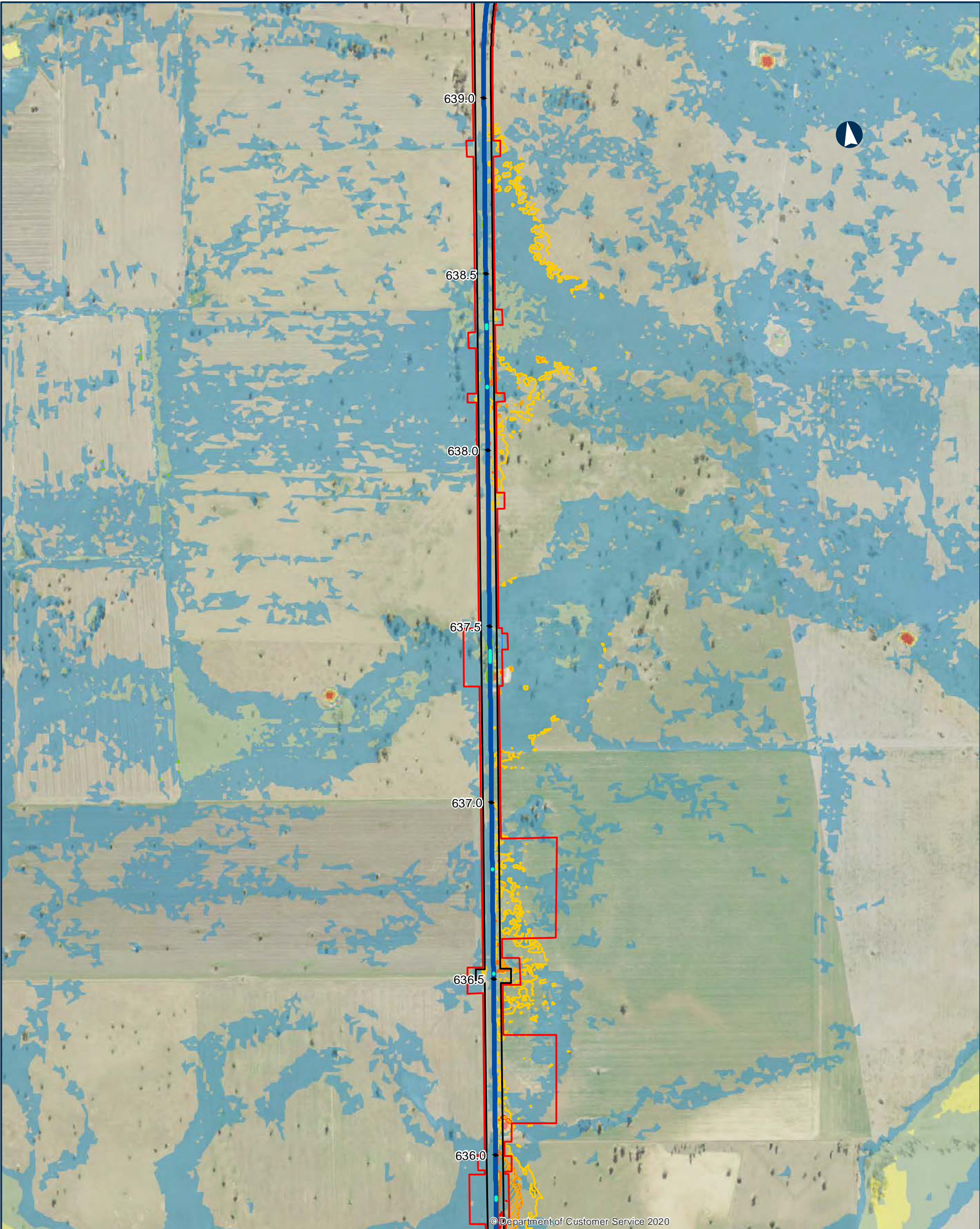
Legend

- Bridge
- Culvert
- Road QDL departure
- Alignment
- Primary road
- Local road
- Watercourse
- The proposal
- Drainage Control Area
- Rail Corridor
- Afflux contour**
- 300mm
- 200mm
- 100mm
- 200mm
- 300mm
- Area of departure
- Agricultural >200mm increase
- Other non-urban >300mm increase
- Existing Flood Depth
- 0.0m - 0.25m
- 0.25m - 0.5m
- 0.5m - 1.0m
- 1.0m - 2.0m
- > 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.30

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 9/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

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

Culvert

Alignment

Watercourse

The proposal

Drainage Control Area

Rail Corridor

Afflux contour

-300mm

-200mm

100mm

200mm

300mm

Area of departure

Agricultural >200mm increase

Existing Flood Depth

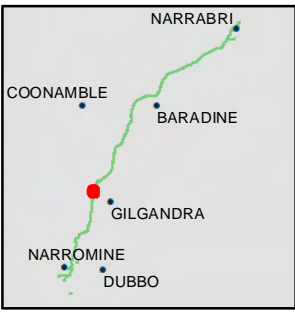
0.0m - 0.25m

0.25m - 0.5m

0.5m - 1.0m

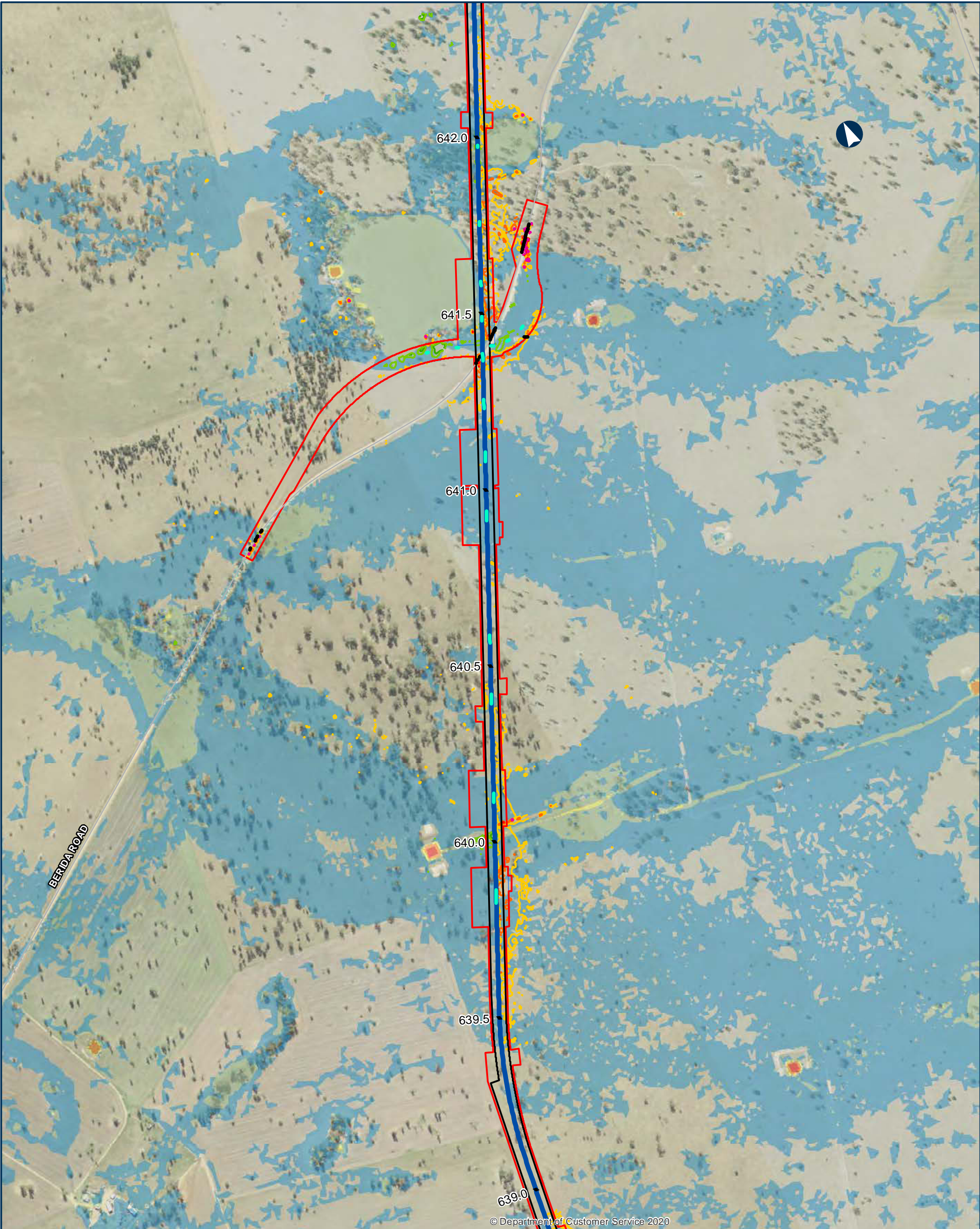
1.0m - 2.0m

> 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.31

0 200 400 Metres

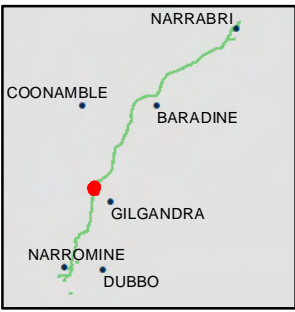
Coordinate System: GDA 1994 MGA Zone 55

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Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

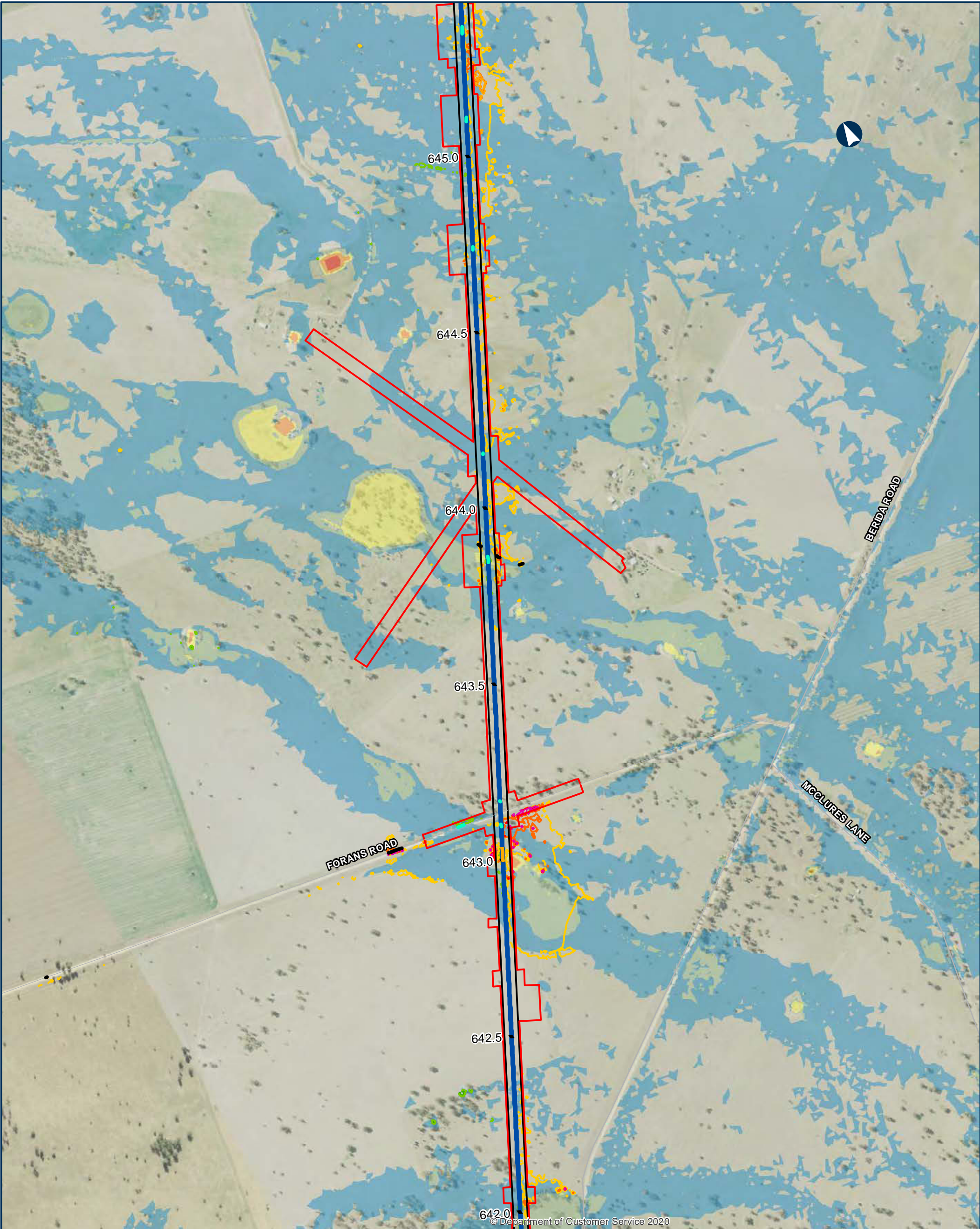
- Culvert
- Road QDL departure
- Alignment
- Sub arterial road
- Watercourse
- The proposal
- Drainage Control Area
- Rail Corridor
- Afflux contour
 - 300mm
 - 200mm
 - 100mm
 - 200mm
 - 300mm
- Area of departure
 - Other non-urban >300mm increase

- Existing Flood Depth
- 0.0m - 0.25m
 - 0.25m - 0.5m
 - 0.5m - 1.0m
 - 1.0m - 2.0m
 - > 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.32

0200400

Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 9/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

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

Bridge

Culvert

Road QDL departure

Alignment

Sub arterial road

Local road

Watercourse

The proposal

Drainage Control Area

Rail Corridor

Afflux contour

-300mm

-200mm

100mm

200mm

300mm

Area of departure

Agricultural >200mm increase

Other non-urban >300mm increase

Existing Flood Depth

0.0m - 0.25m

0.25m - 0.5m

0.5m - 1.0m

1.0m - 2.0m

> 2.0m

NARRABRI

COONAMBLE

BARADINE

GILGANDRA

NARROMINE

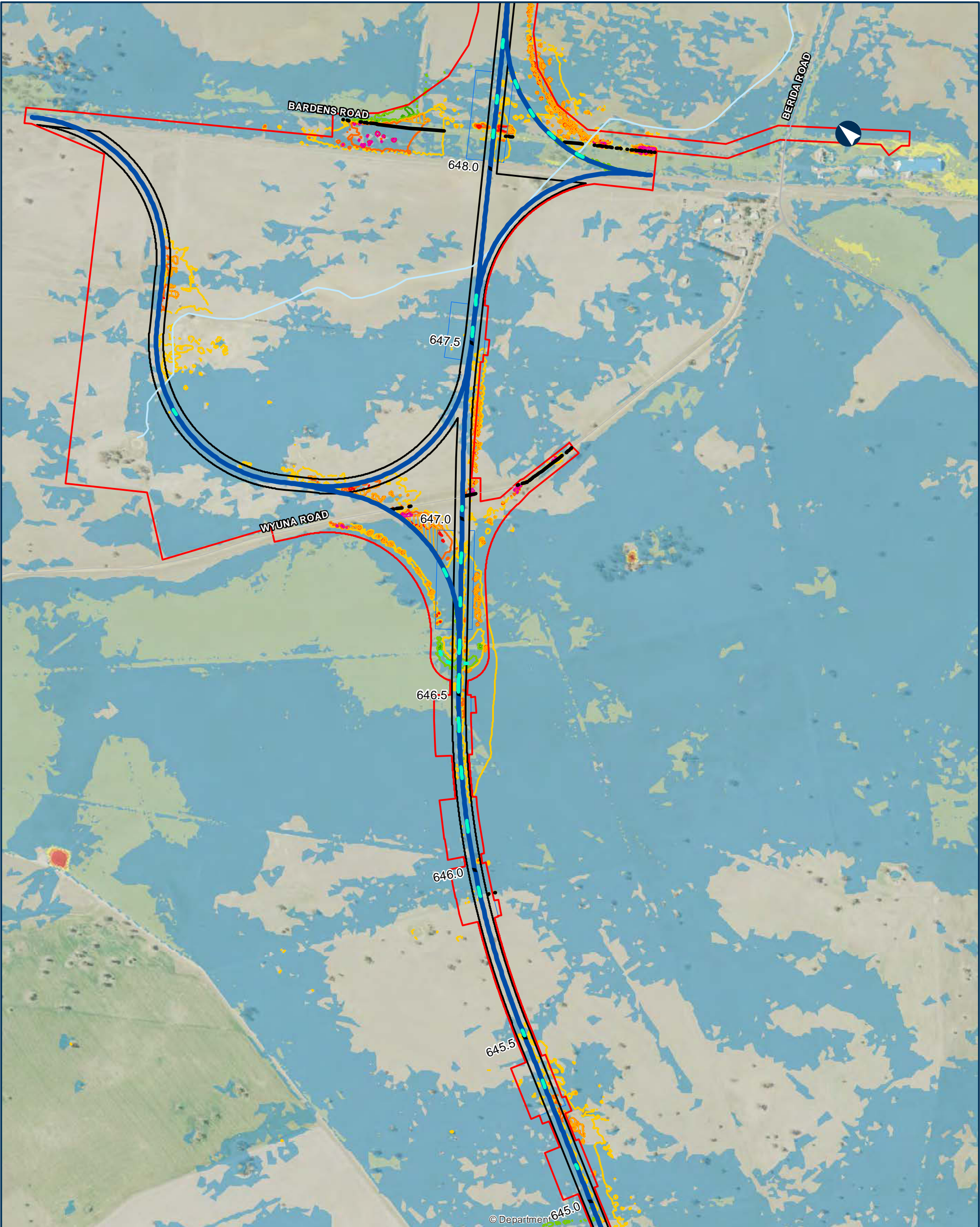
DUBBO

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N:\AU\Newcastle\Projects\2219593\GIS\GIS_2500_N2N_v2\Maps\Deliverables_SPIR\EIS\Flooding_Hydrology\Appendices\2500_EISFWPAPP088_QDL_Afflux_1pcBlockage_revD.mxd



NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.33

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 9/08/2022
Author: JacobsGHD
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

Paper: A3
Scale: 1:10,000

Culvert

Road QDL departure

Alignment

Sub arterial road

Local road

Watercourse

The proposal

Drainage Control Area

Rail Corridor

Afflux contour

-300mm

-200mm

100mm

200mm

300mm

Area of departure

Agricultural >200mm increase

Other non-urban >300mm increase

Existing Flood Depth

0.0m - 0.25m

0.25m - 0.5m

0.5m - 1.0m

1.0m - 2.0m

> 2.0m

NARRABRI

COONAMBLE

BARADINE

GILGANDRA

NARROMINE

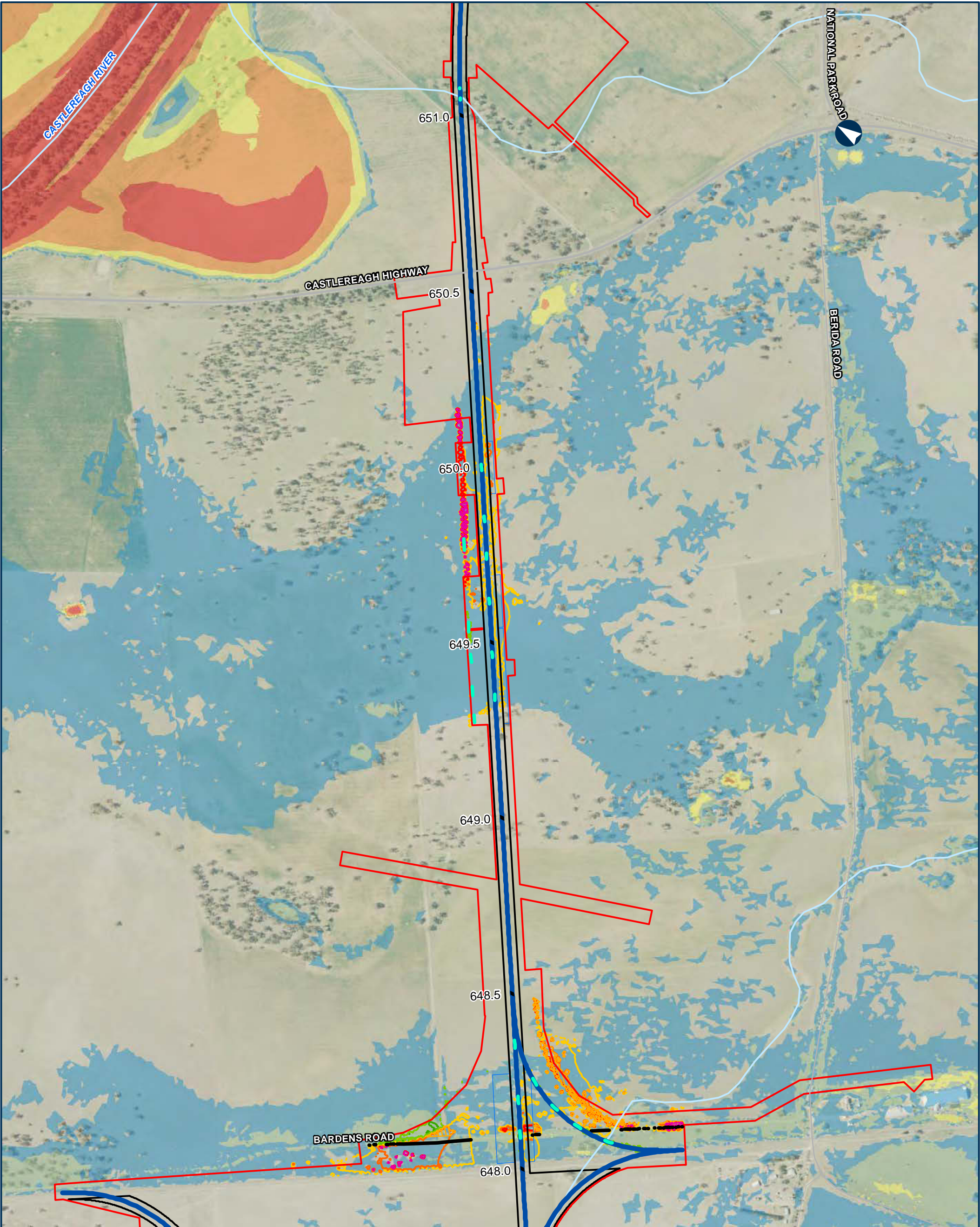
DUBBO

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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.34

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

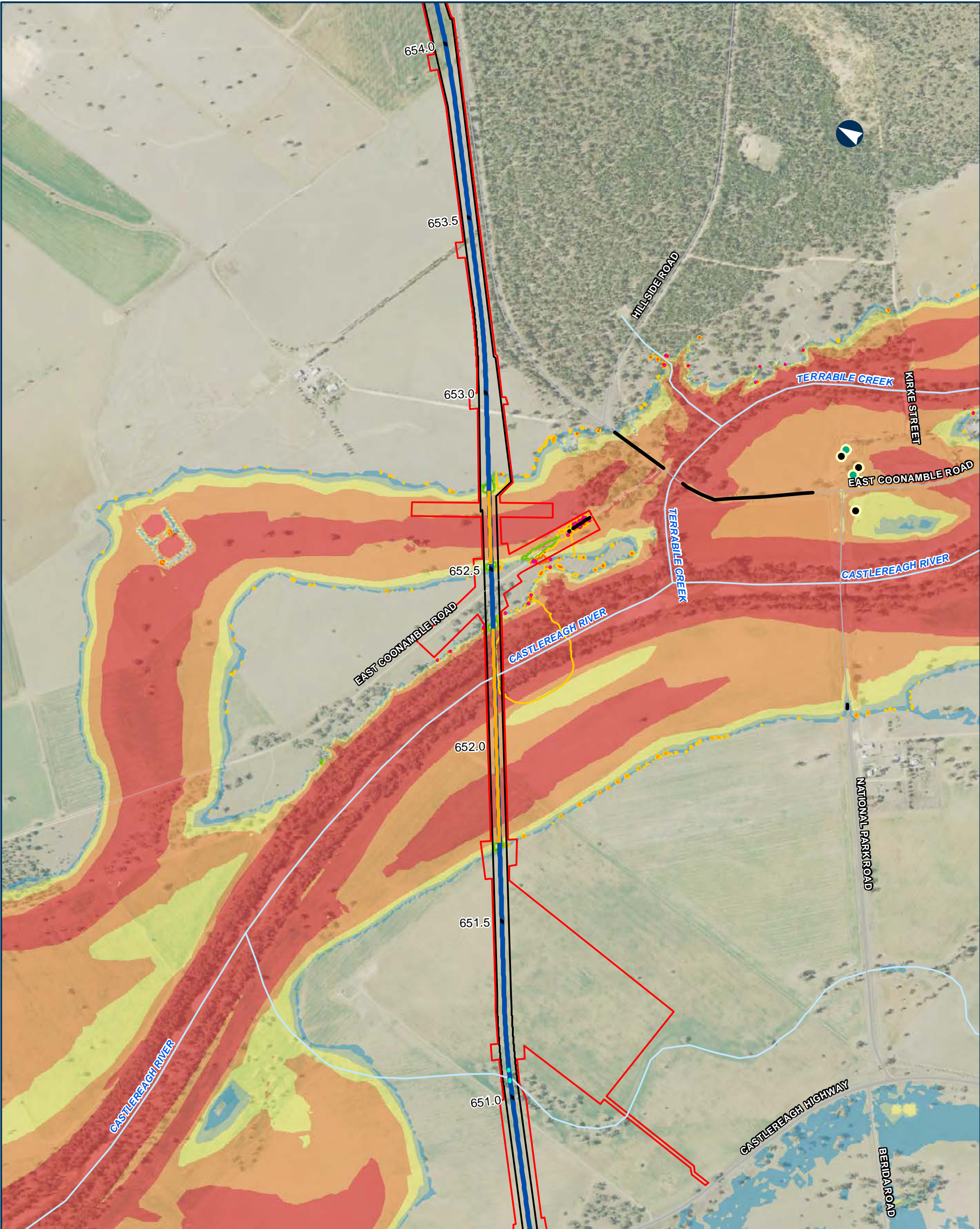
- Culvert
- Road QDL departure
- Alignment
- Primary road
- Sub arterial road
- Local road
- Watercourse
- The proposal
- Drainage Control Area
- Rail Corridor
- Afflux contour
 - 300mm
 - 200mm
 - 100mm
 - 200mm
 - 300mm
- Area of departure
 - Agricultural >200mm increase
 - Other non-urban >300mm increase

- Existing Flood Depth
- 0.0m - 0.25m
 - 0.25m - 0.5m
 - 0.5m - 1.0m
 - 1.0m - 2.0m
 - > 2.0m



INLAND RAIL ARTC

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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.35

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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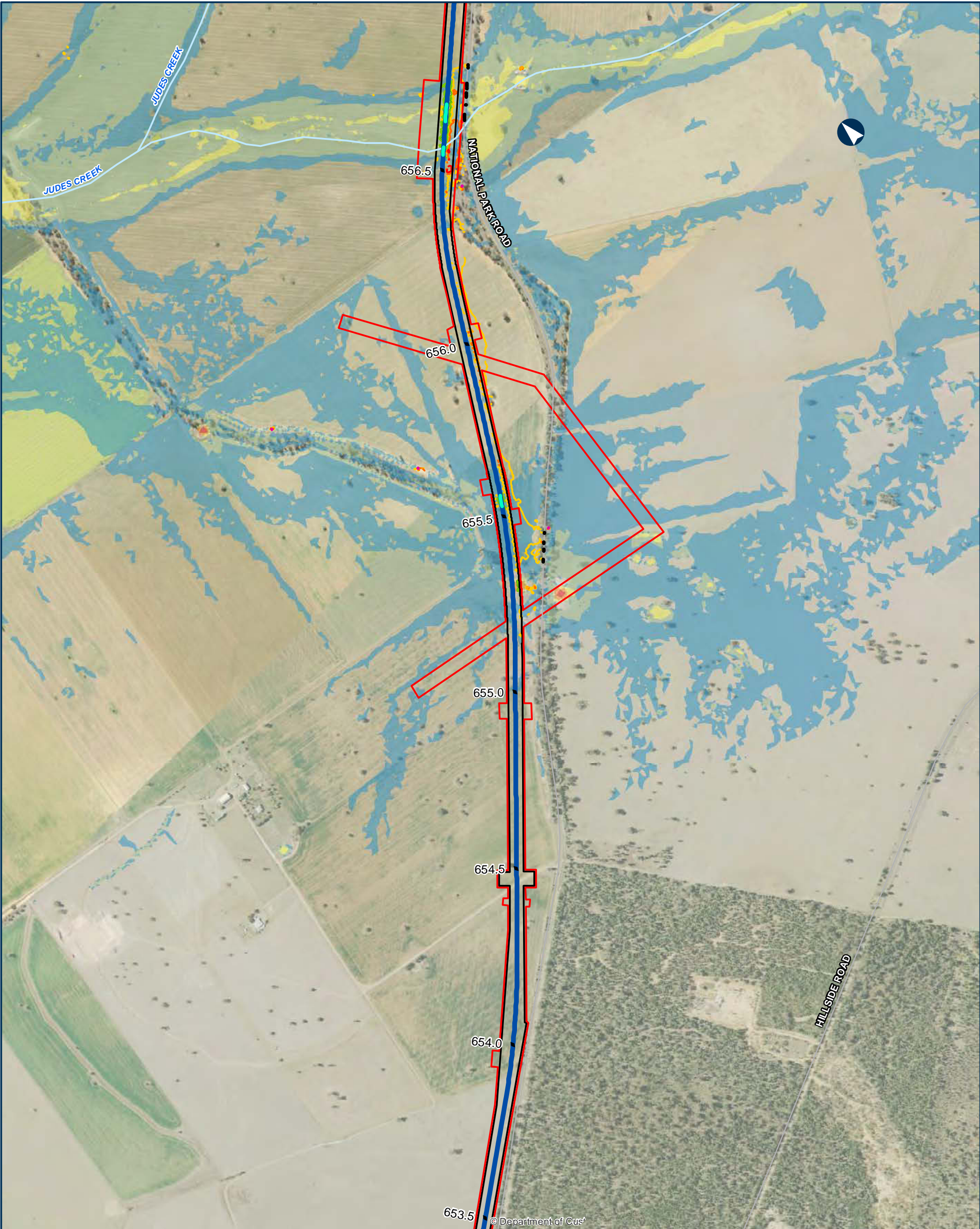
Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Habitable floor departure
- Non-habitable floor departure
- Bridge
- Culvert
- Road QDL departure
- Alignment
- Primary road
- Sub arterial road
- Local road
- Watercourse
- The proposal
- Rail Corridor
- Afflux contour
 - 300mm
 - 200mm
 - 100mm
 - 200mm
 - 300mm
- Area of departure
 - Agricultural >200mm increase
 - Other non-urban >300mm increase
- Existing Flood Depth
 - 0.0m - 0.25m
 - 0.25m - 0.5m
 - 0.5m - 1.0m
 - 1.0m - 2.0m
 - > 2.0m



INLAND RAIL ARTC

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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.36

0200400

Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 9/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

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

Culvert

Road QDL departure

Alignment

Sub arterial road

Watercourse

The proposal

Drainage Control Area

Rail Corridor

Afflux contour

-300mm

-200mm

100mm

200mm

300mm

Area of departure

Agricultural >200mm increase

Other non-urban >300mm increase

Existing Flood Depth

0.0m - 0.25m

0.25m - 0.5m

0.5m - 1.0m

1.0m - 2.0m

> 2.0m

NARRABRI

COONAMBLE

BARADINE

GILGANDRA

NARROMINE

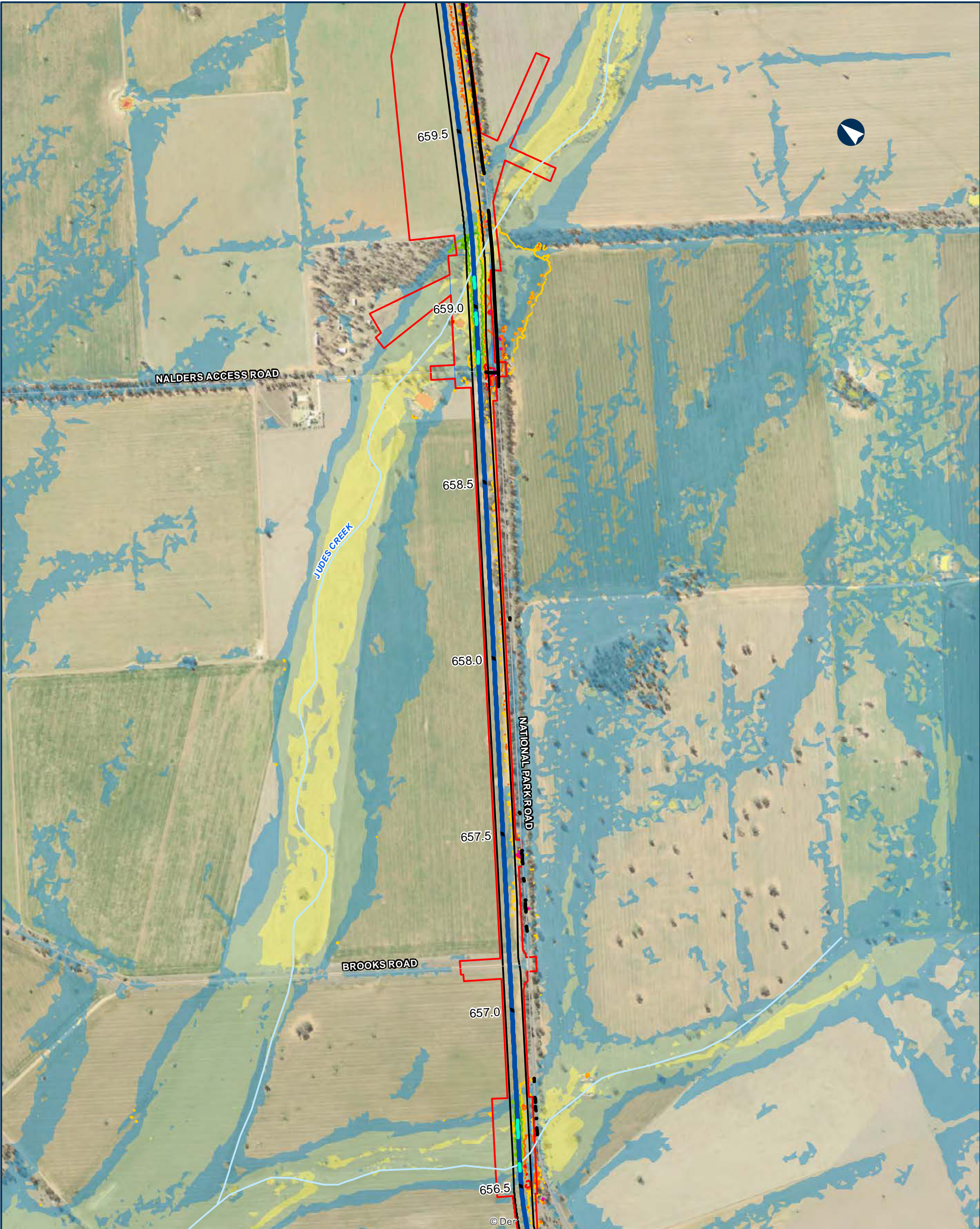
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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.37

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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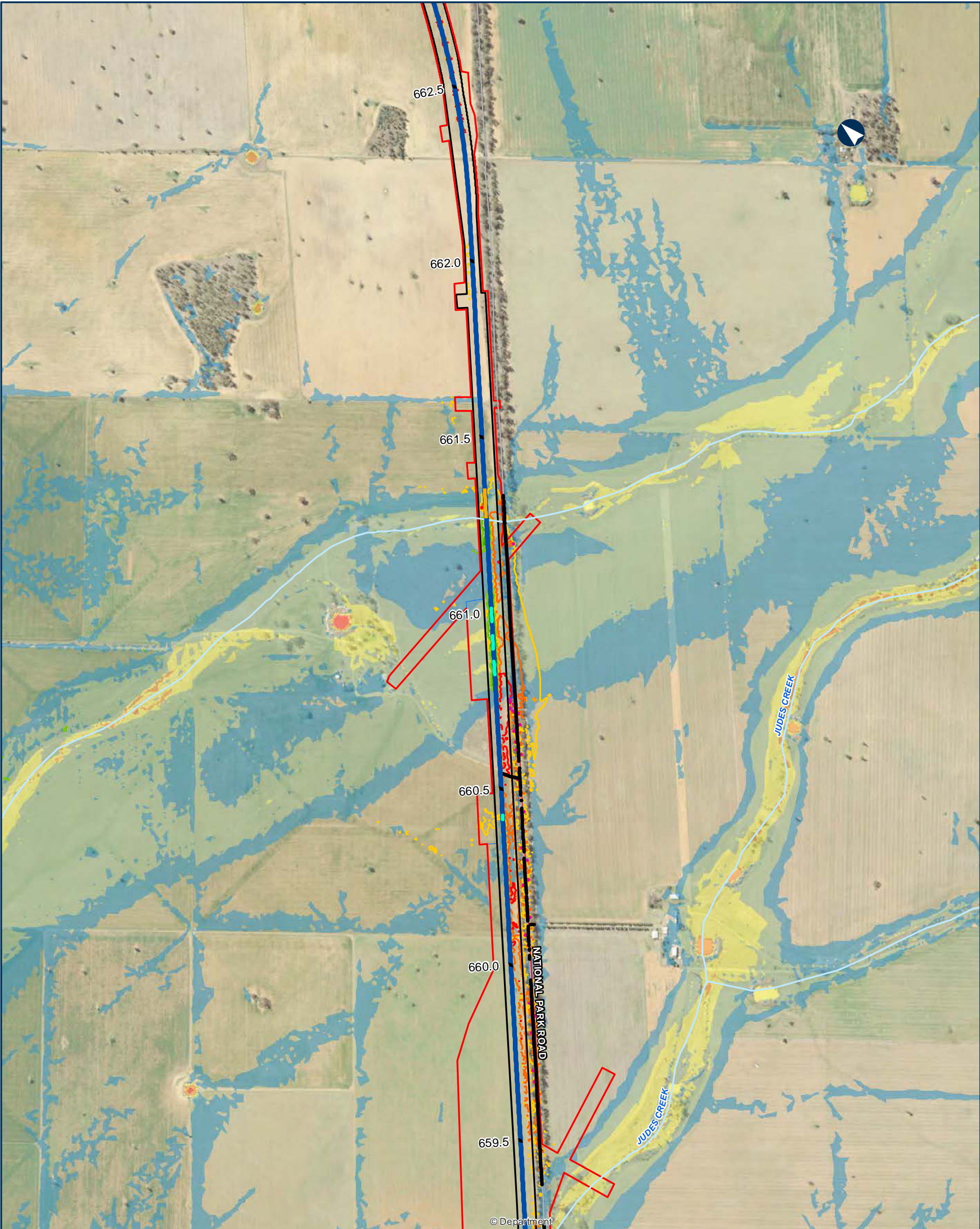
Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Culvert
- Road QDL departure
- Alignment
- Sub arterial road
- Local road
- Watercourse
- The proposal
- Drainage Control Area
- Rail Corridor
- Afflux contour
 - 300mm
 - 200mm
 - 100mm
 - 200mm
 - 300mm
- Area of departure
 - Agricultural >200mm increase
 - Other non-urban >300mm increase
- Existing Flood Depth
 - 0.0m - 0.25m
 - 0.25m - 0.5m
 - 0.5m - 1.0m
 - 1.0m - 2.0m
 - > 2.0m



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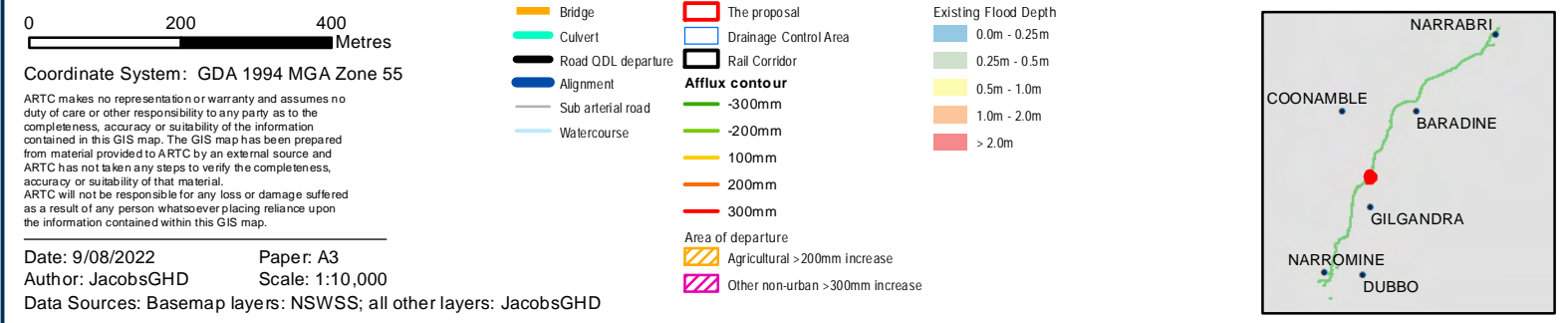
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC), in partnership with the private sector.

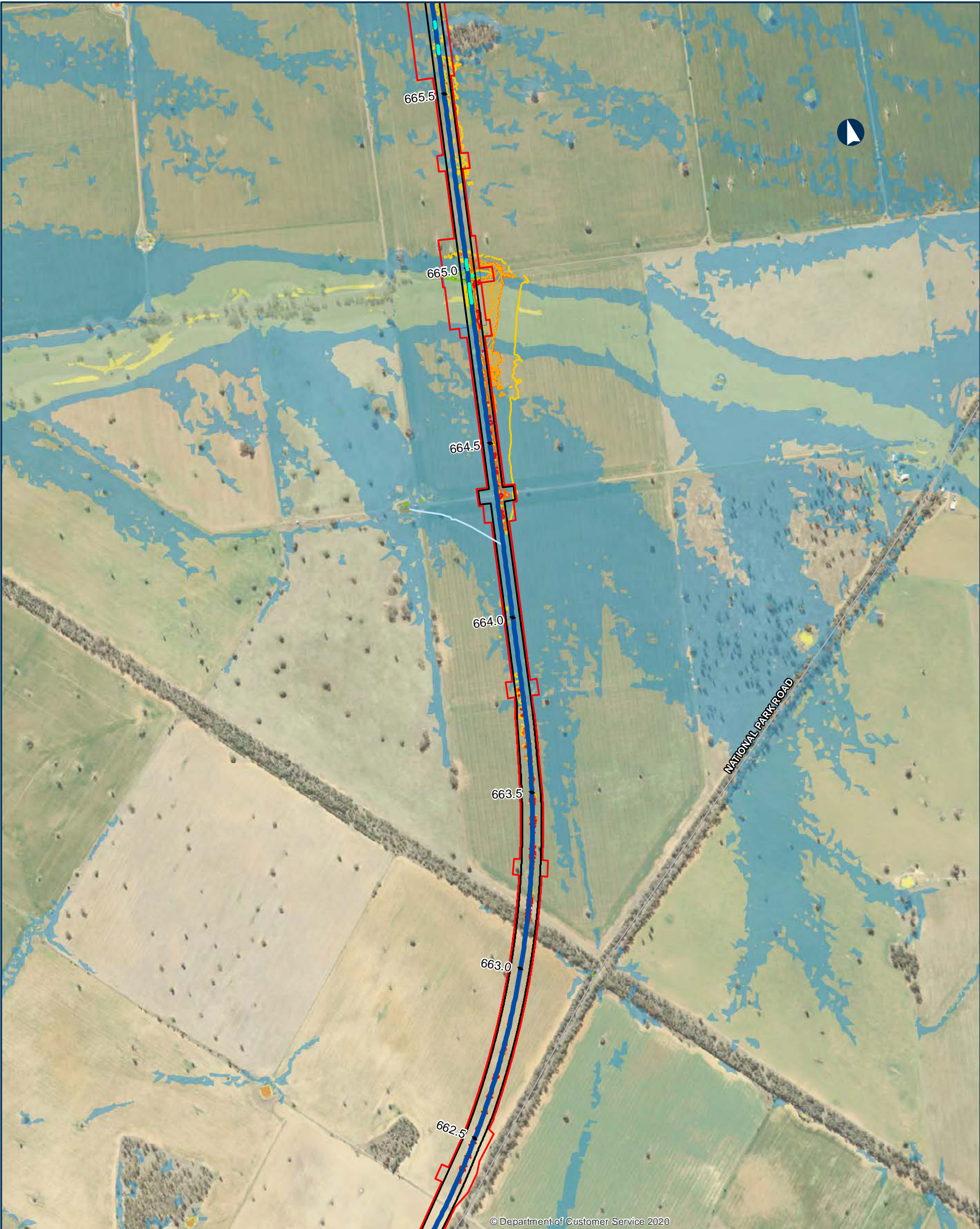


NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.38





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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.39

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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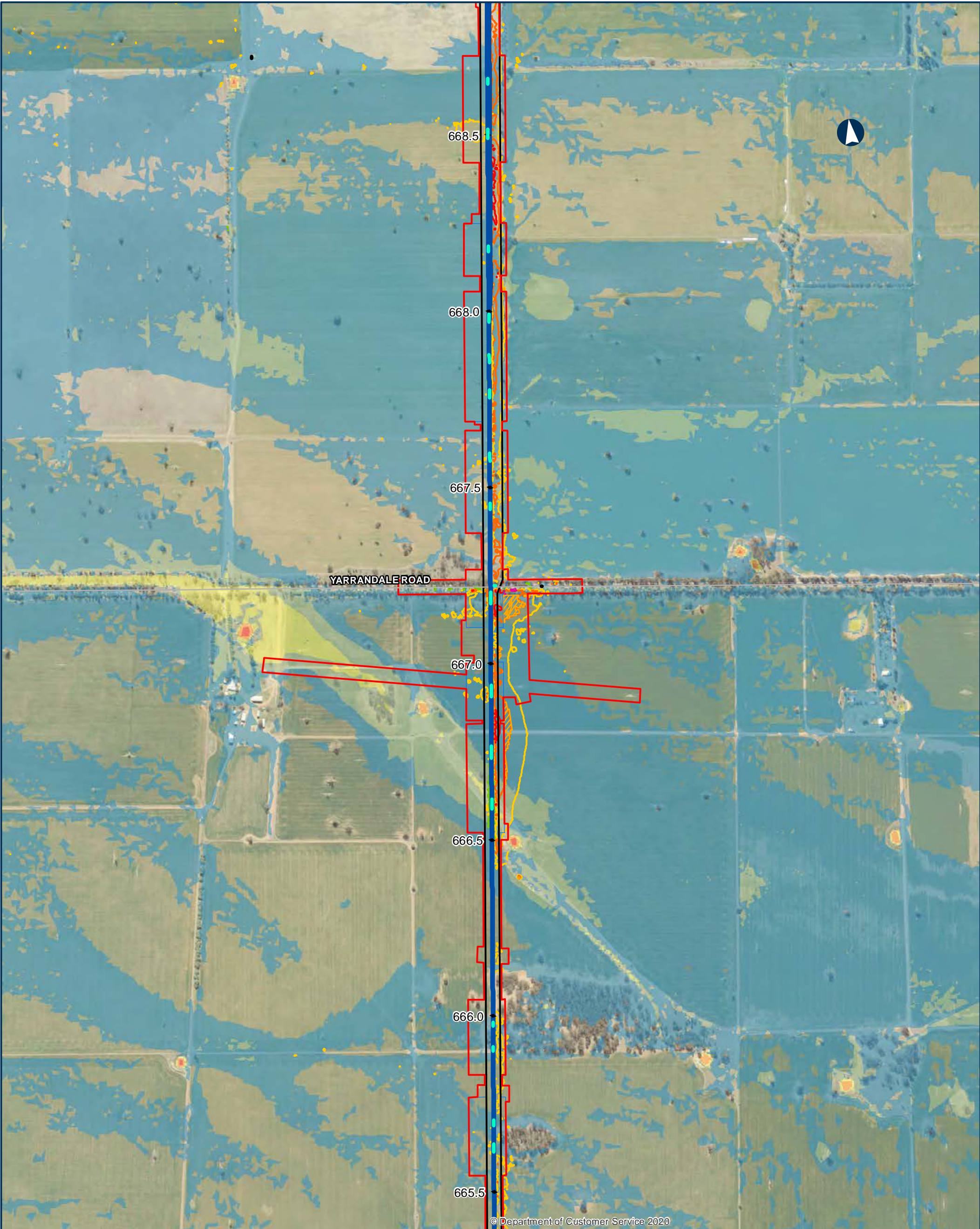
Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Culvert
- Alignment
- Sub arterial road
- Watercourse
- The proposal
- Drainage Control Area
- Rail Corridor
- Afflux contour
 - 300mm
 - 200mm
 - 100mm
 - 200mm
 - 300mm
- Area of departure
 - Agricultural >200mm increase
- Existing Flood Depth
 - 0.0m - 0.25m
 - 0.25m - 0.5m
 - 0.5m - 1.0m
 - 1.0m - 2.0m
 - > 2.0m



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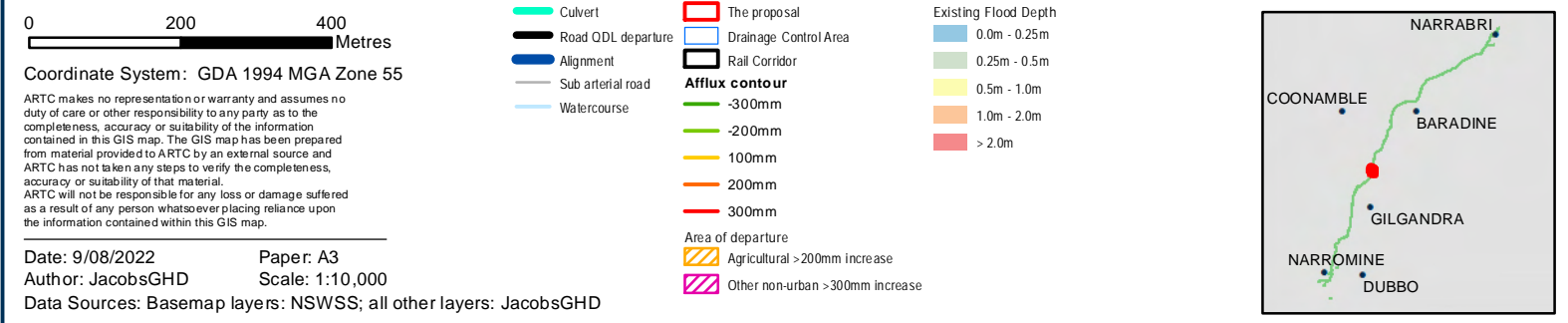
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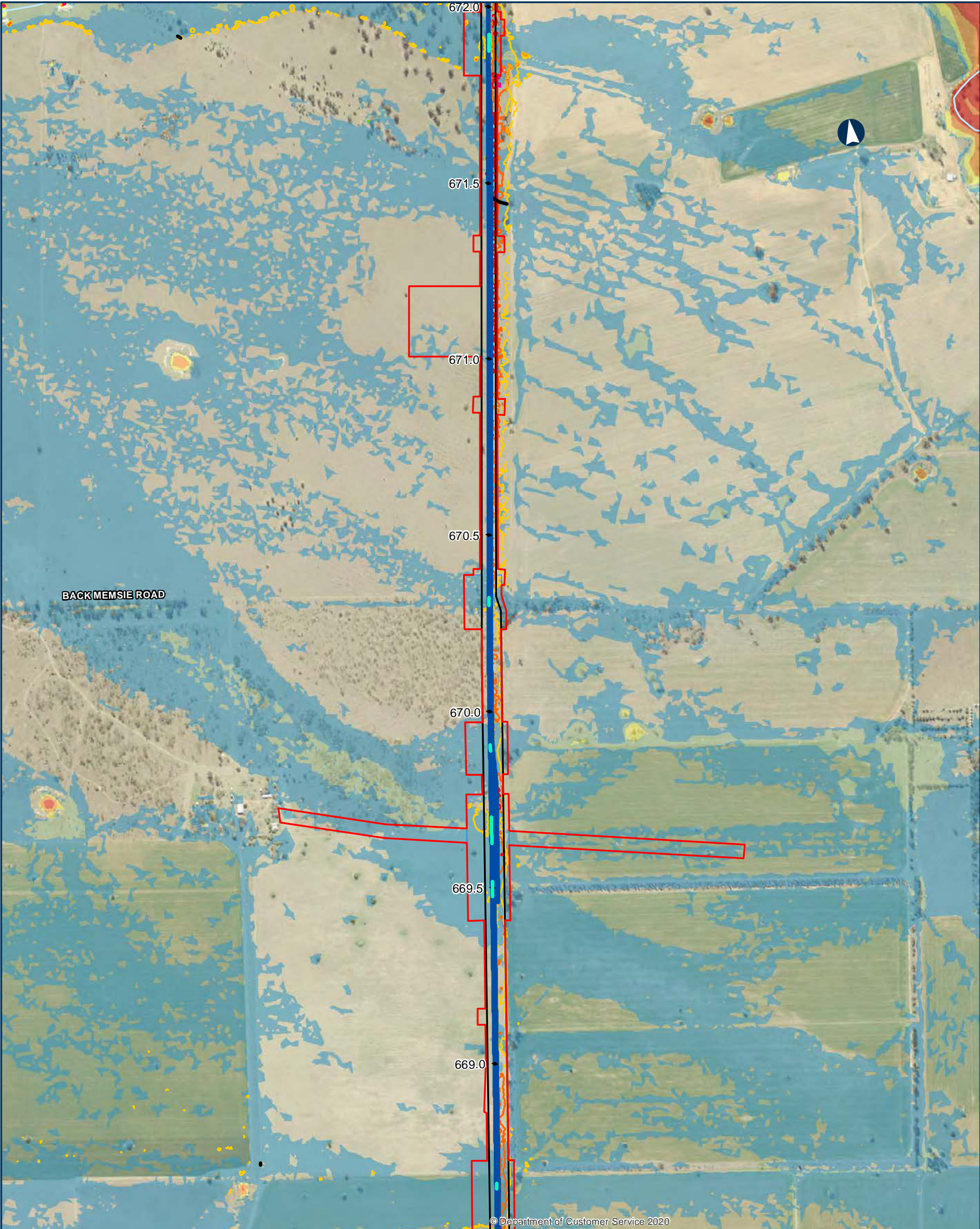


NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.40

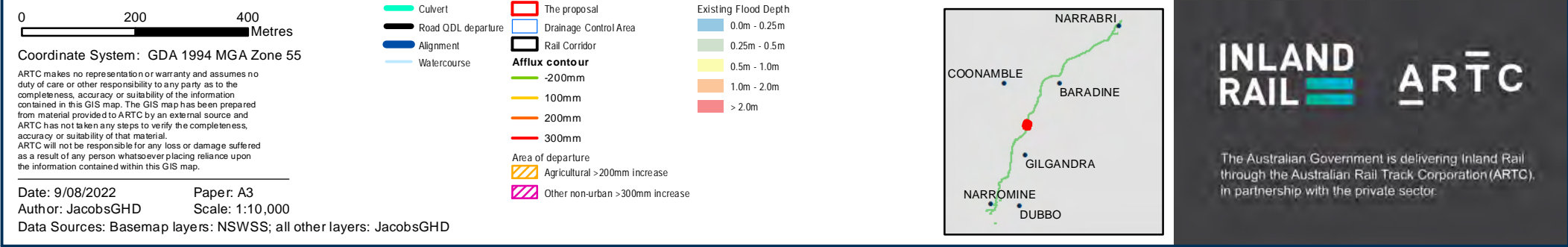


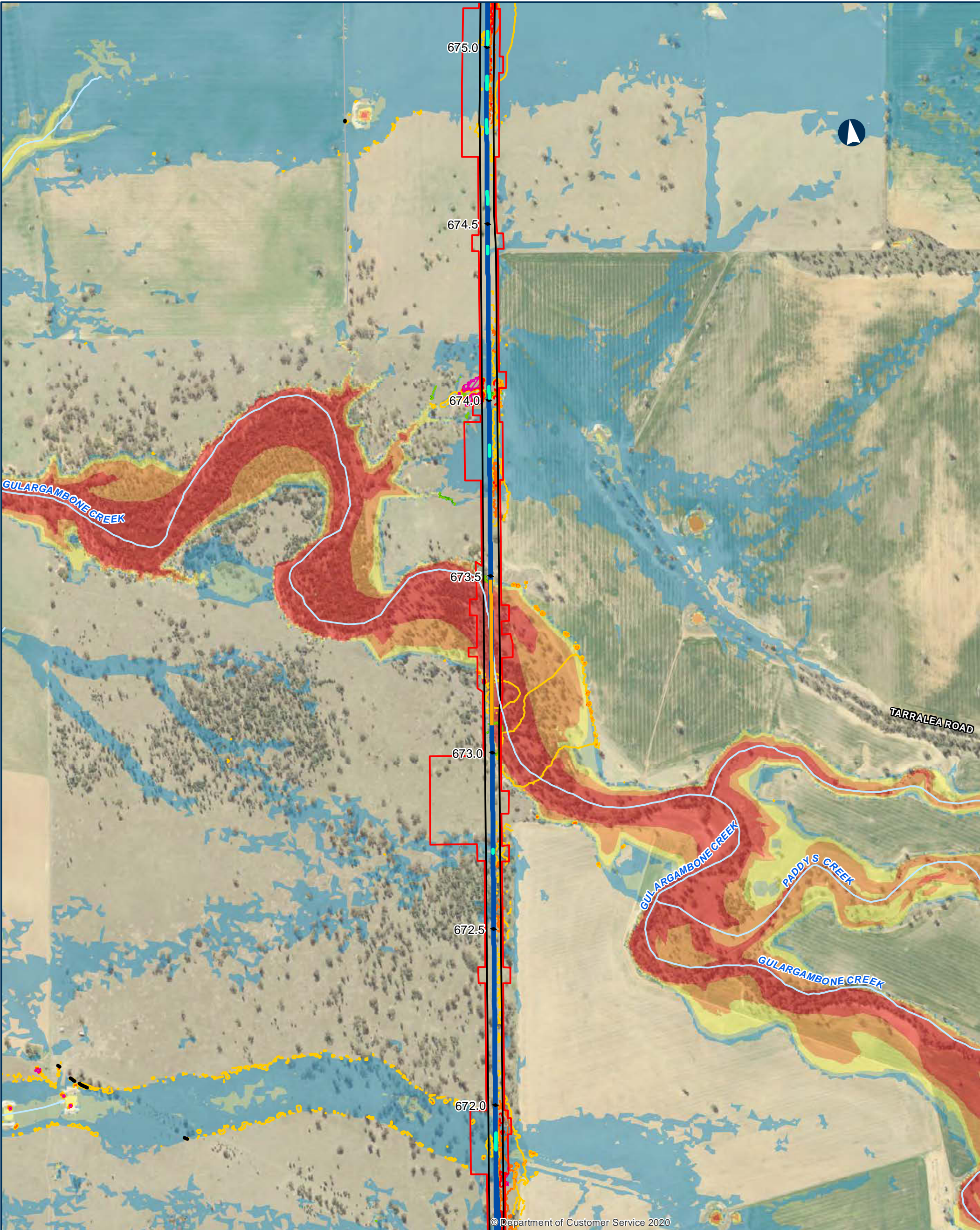


NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.41





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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.42

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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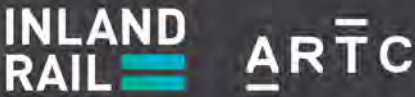
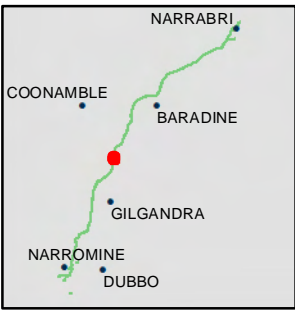
Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

Legend

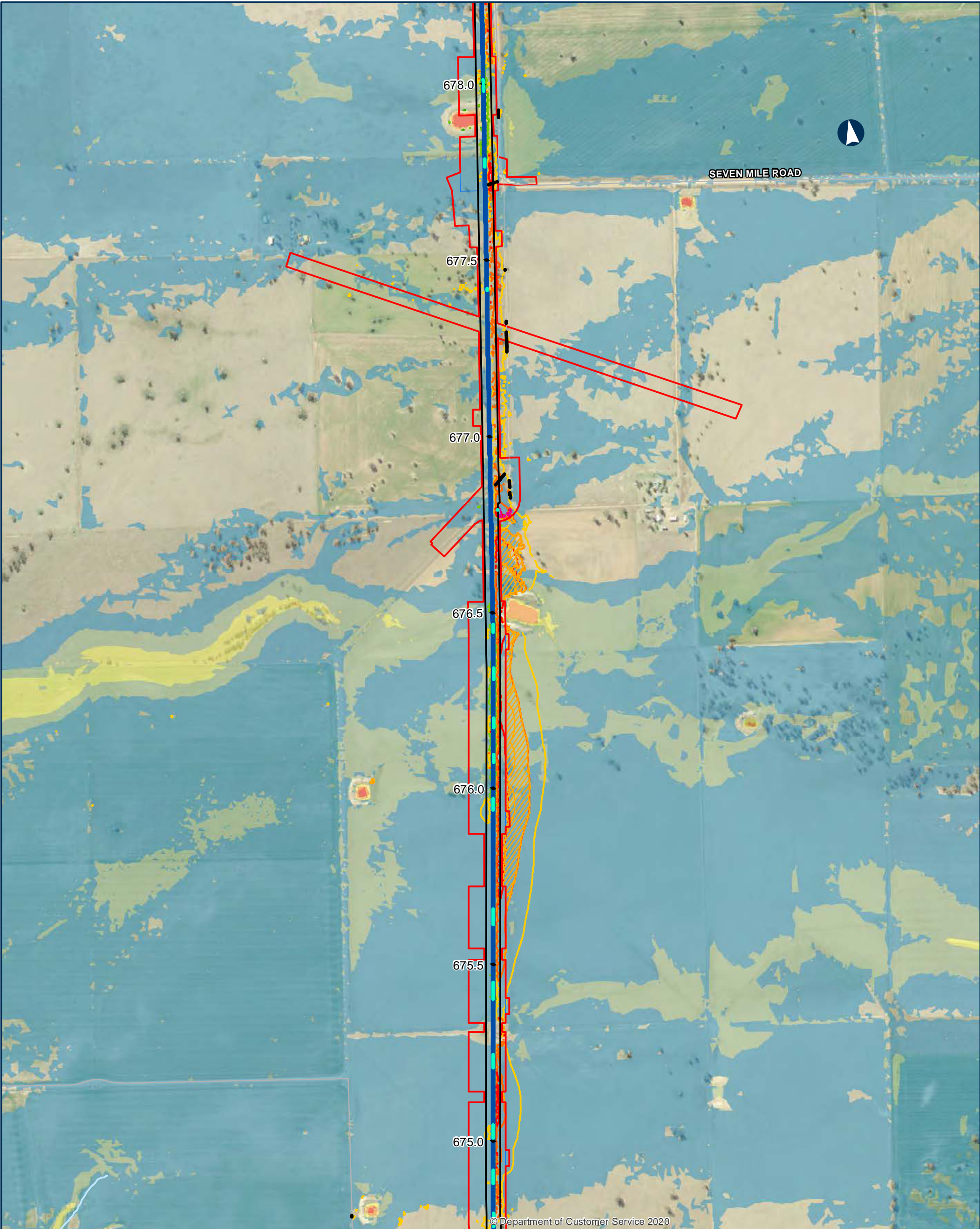
- Bridge
- Culvert
- Road QDL departure
- Alignment
- Sub arterial road
- Watercourse
- The proposal
- Drainage Control Area
- Rail Corridor
- Afflux contour**
- 300mm
- 200mm
- 100mm
- 200mm
- 300mm
- Area of departure**
- Agricultural >200mm increase
- Other non-urban >300mm increase

Existing Flood Depth

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



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.43

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 9/08/2022
Author: JacobsGHD
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

Legend

- Culvert
- Road QDL departure
- Alignment
- Sub arterial road
- Local road
- Watercourse
- The proposal
- Drainage Control Area
- Rail Corridor
- Afflux contour
- 300mm
- 200mm
- 100mm
- 200mm
- 300mm
- Area of departure
- Agricultural >200mm increase
- Other non-urban >300mm increase

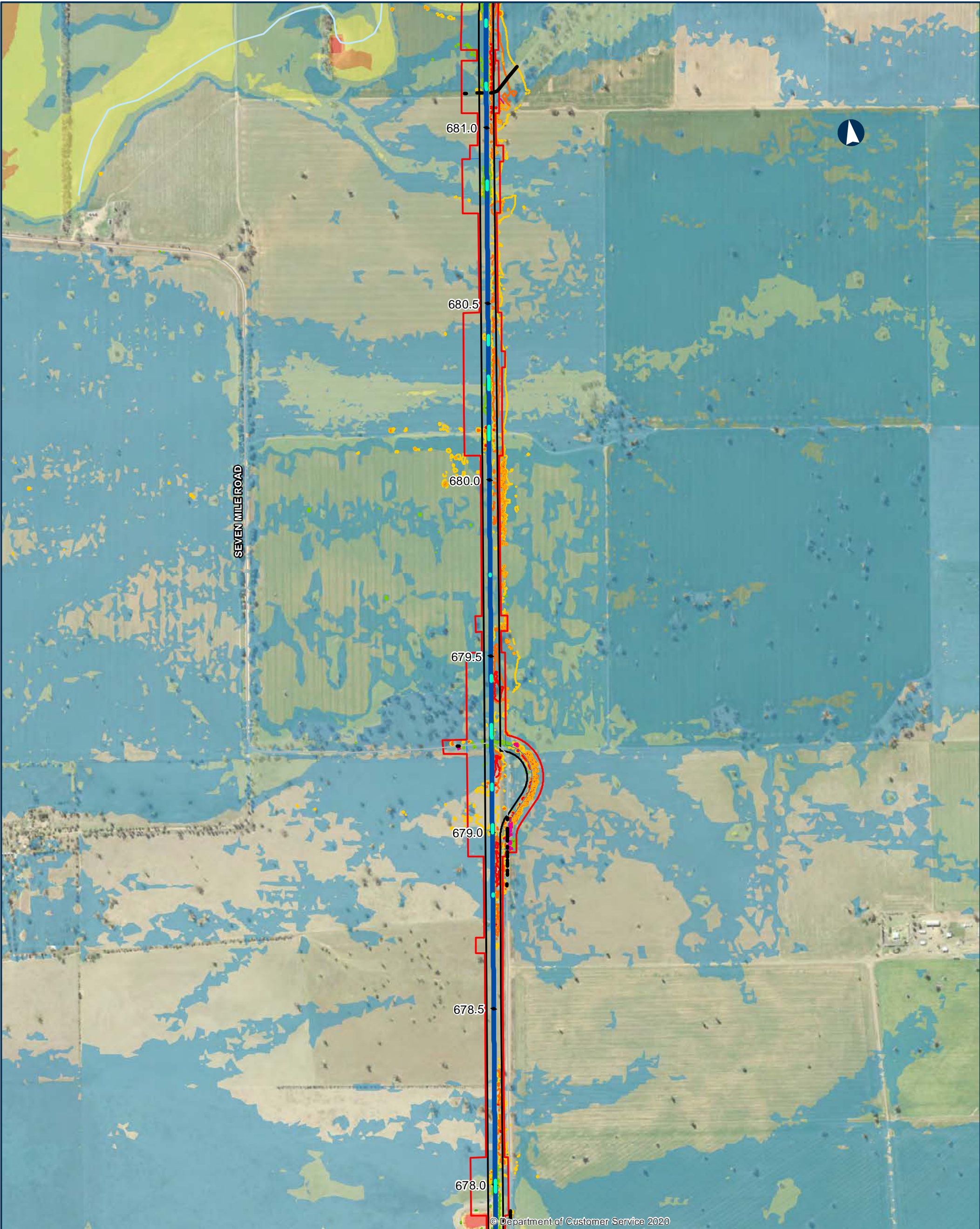
Existing Flood Depth

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

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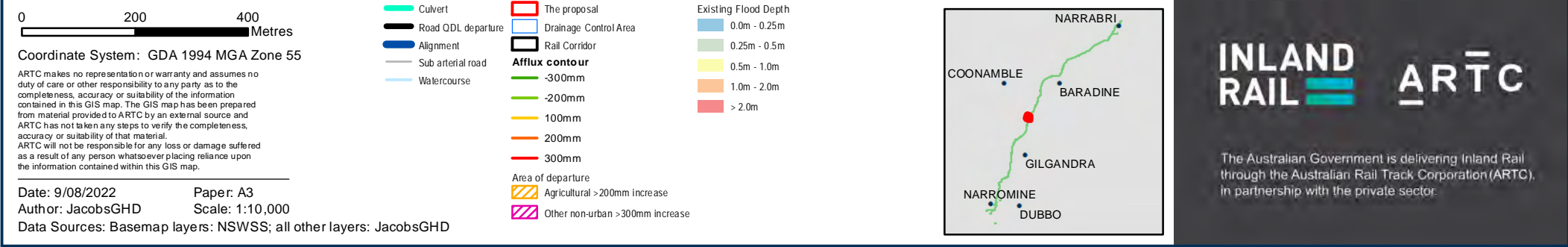
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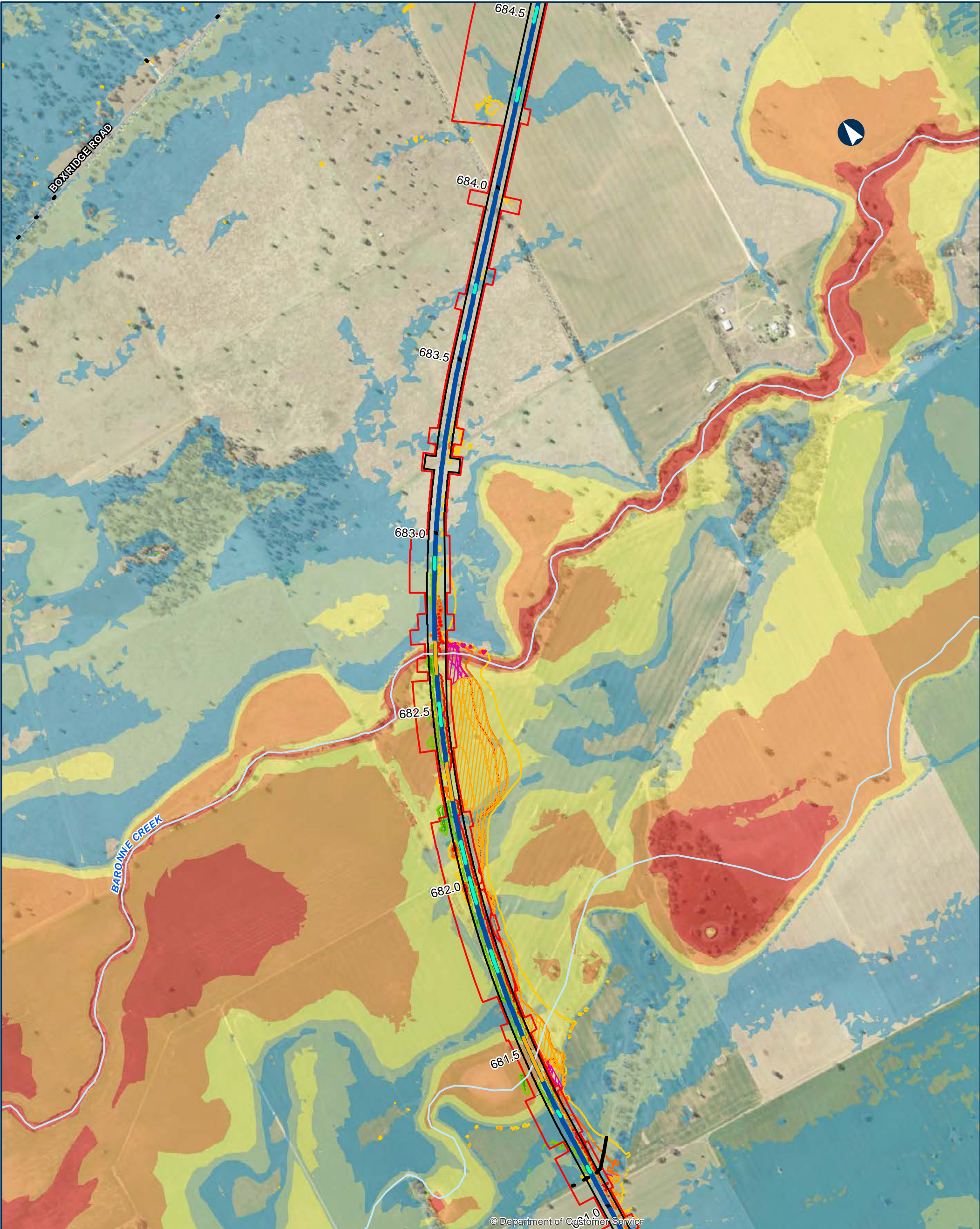


NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.44





NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.45

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 9/08/2022
Author: JacobsGHD
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

Paper: A3
Scale: 1:10,000

Bridge

Culvert

Road QDL departure

Alignment

Sub arterial road

Local road

Watercourse

The proposal

Drainage Control Area

Rail Corridor

Afflux contour

-300mm

-200mm

100mm

200mm

300mm

Area of departure

Agricultural >200mm increase

Other non-urban >300mm increase

Existing Flood Depth

0.0m - 0.25m

0.25m - 0.5m

0.5m - 1.0m

1.0m - 2.0m

> 2.0m

NARRABRI

COONAMBLE

BARADINE

GILGANDRA

NARROMINE

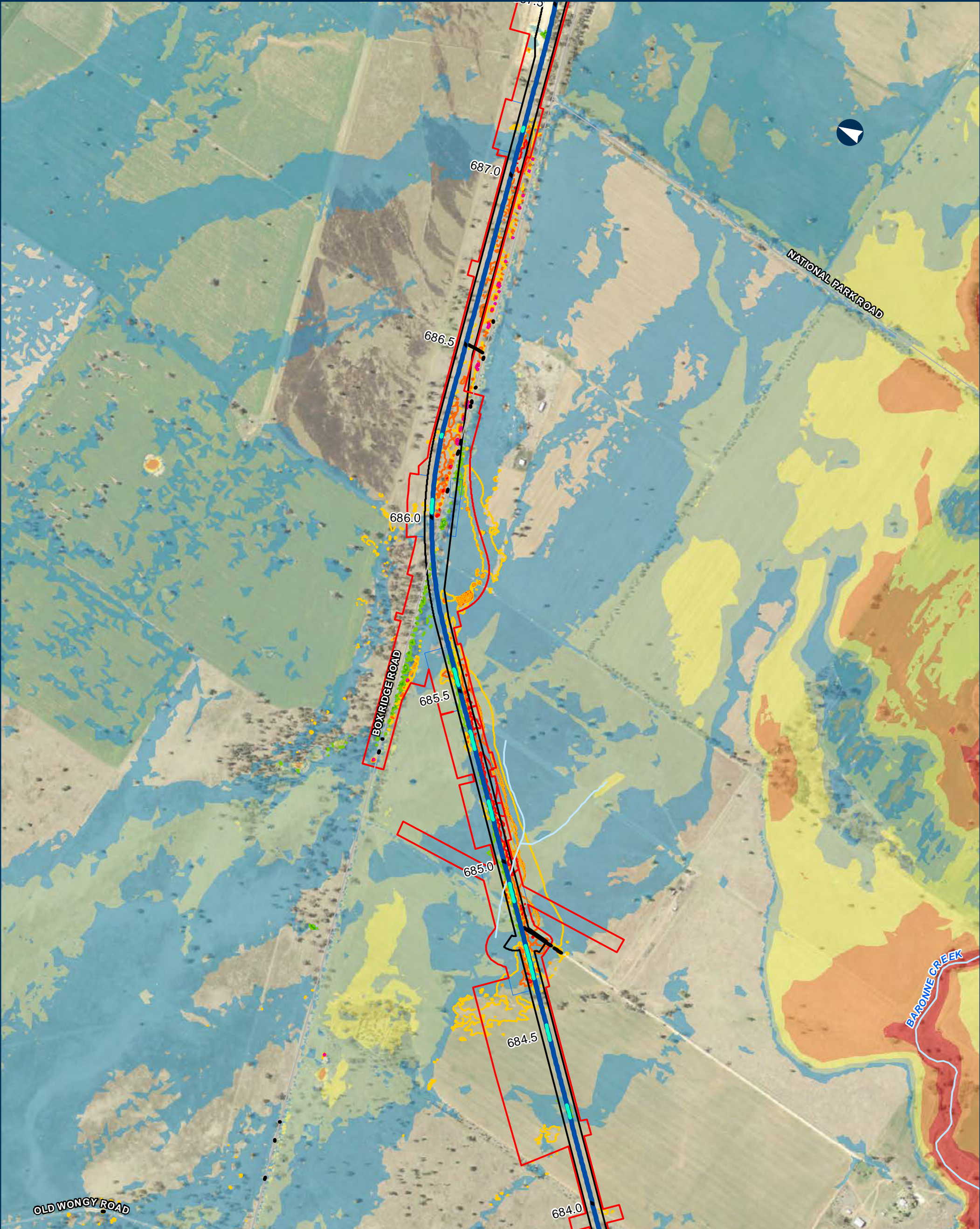
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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.46

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

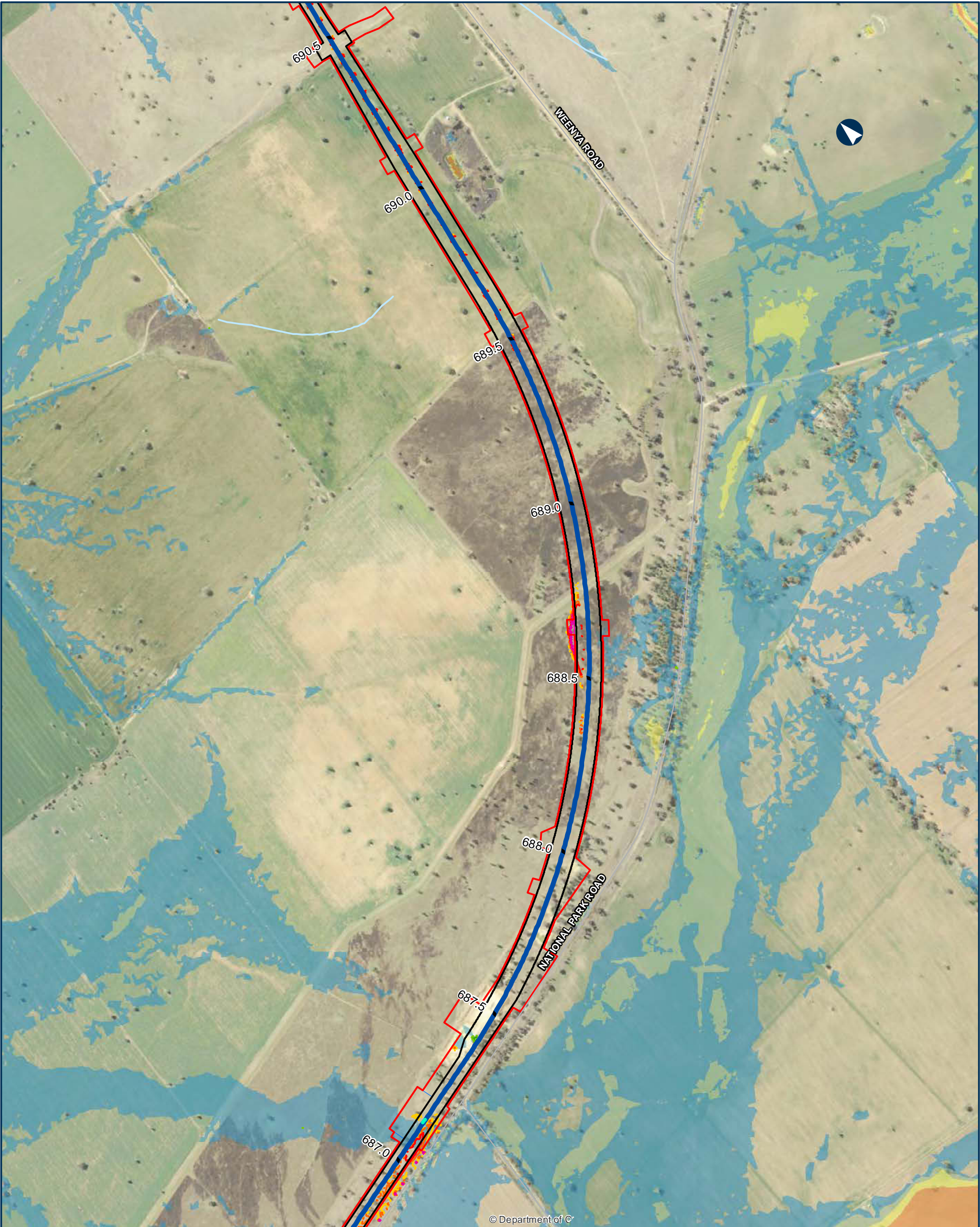
- Culvert
- Road QDL departure
- Alignment
- Sub arterial road
- Local road
- Watercourse
- The proposal
- Drainage Control Area
- Rail Corridor
- Afflux contour
 - 300mm
 - 200mm
 - 100mm
 - 200mm
 - 300mm
- Area of departure
 - Agricultural >200mm increase
 - Other non-urban >300mm increase

- Existing Flood Depth
- 0.0m - 0.25m
 - 0.25m - 0.5m
 - 0.5m - 1.0m
 - 1.0m - 2.0m
 - > 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.47

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

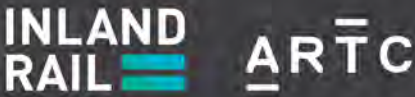
Culvert
Alignment
Sub arterial road
Watercourse

The proposal
Drainage Control Area
Rail Corridor

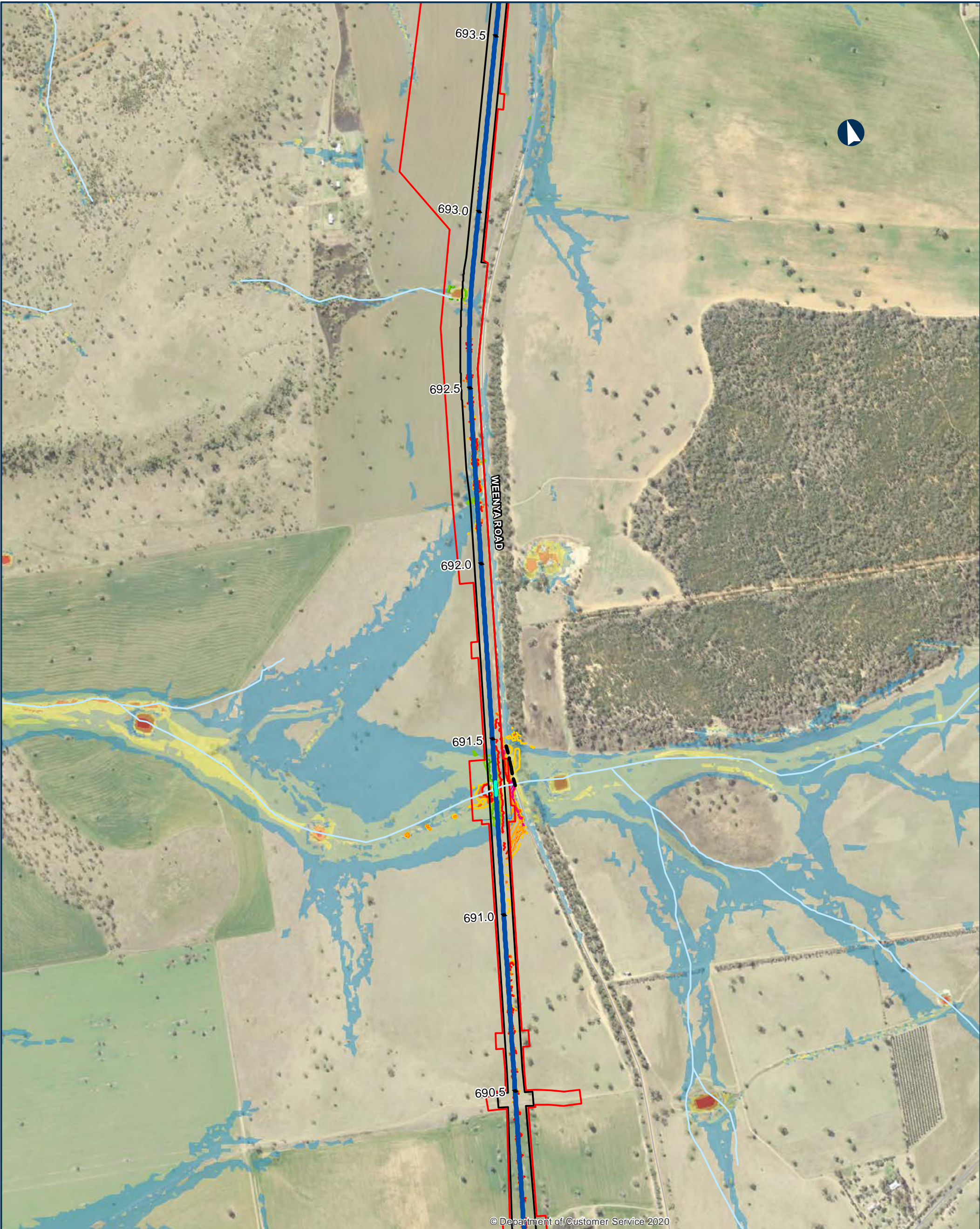
Afflux contour
-300mm
-200mm
100mm
200mm
300mm

Area of departure
Other non-urban >300mm increase

Existing Flood Depth
0.0m - 0.25m
0.25m - 0.5m
0.5m - 1.0m
1.0m - 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.48

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

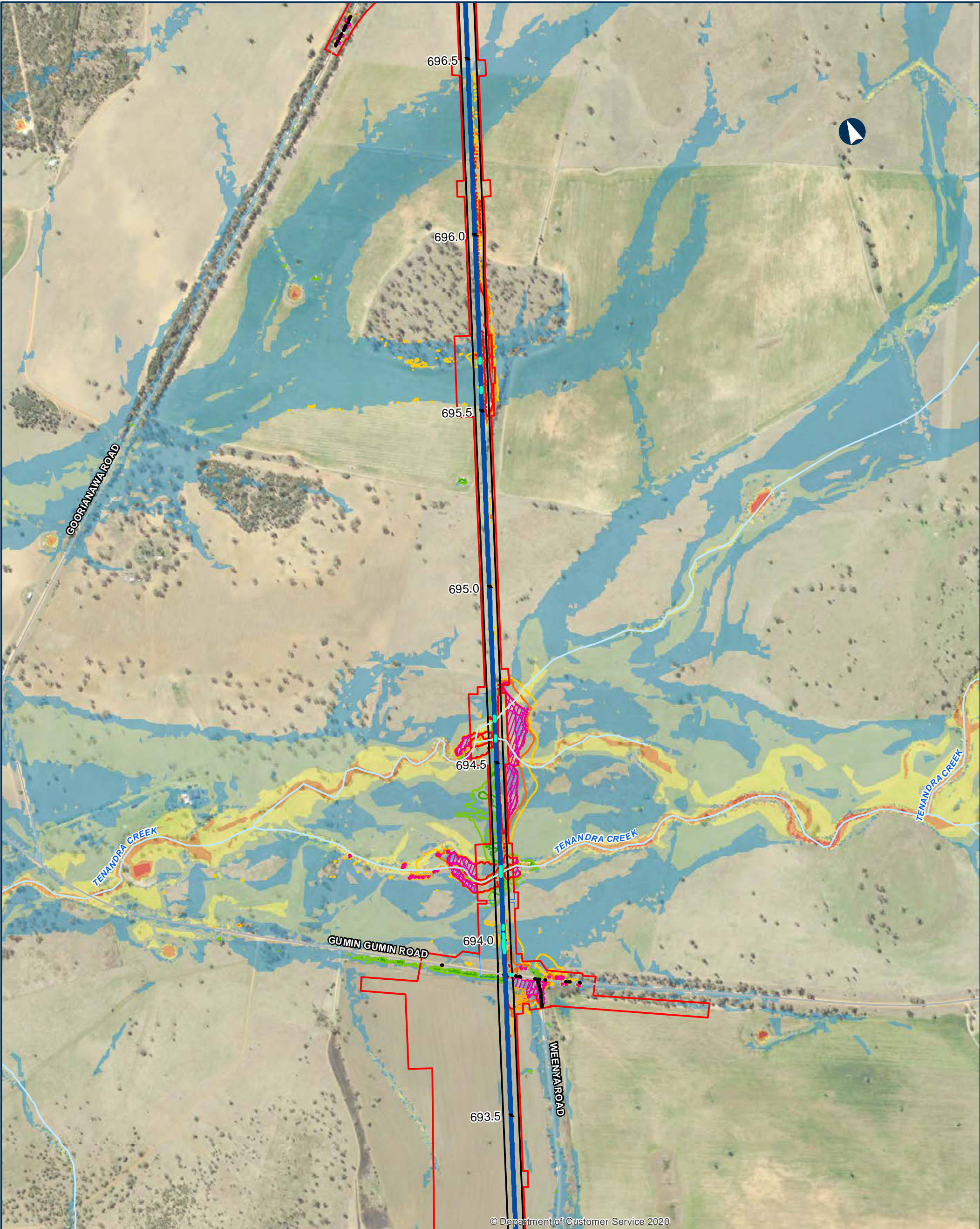
- Culvert
- Road QDL departure
- Alignment
- Sub arterial road
- Watercourse
- The proposal
- Drainage Control Area
- Rail Corridor
- Afflux contour
 - 300mm
 - 200mm
 - 100mm
 - 200mm
 - 300mm
- Area of departure
 - Agricultural >200mm increase
 - Other non-urban >300mm increase

- Existing Flood Depth
- 0.0m - 0.25m
 - 0.25m - 0.5m
 - 0.5m - 1.0m
 - 1.0m - 2.0m
 - > 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.49

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

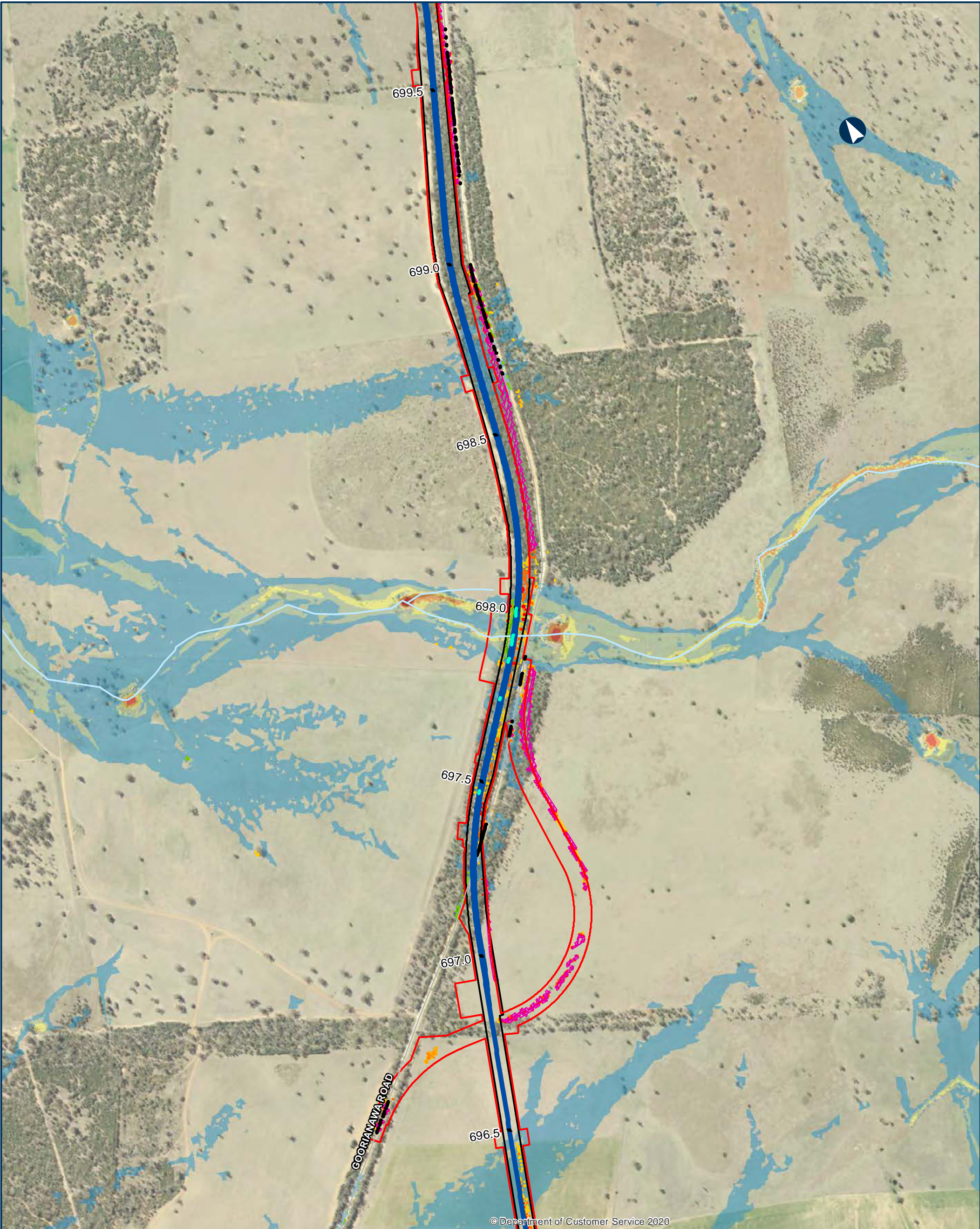
- Culvert
- Road QDL departure
- Alignment
- Arterial road
- Sub arterial road
- Watercourse
- The proposal
- Drainage Control Area
- Rail Corridor
- Afflux contour
 - 300mm
 - 200mm
 - 100mm
 - 200mm
 - 300mm
- Area of departure
 - Agricultural >200mm increase
 - Other non-urban >300mm increase

- Existing Flood Depth
- 0.0m - 0.25m
 - 0.25m - 0.5m
 - 0.5m - 1.0m
 - 1.0m - 2.0m
 - > 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.50

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

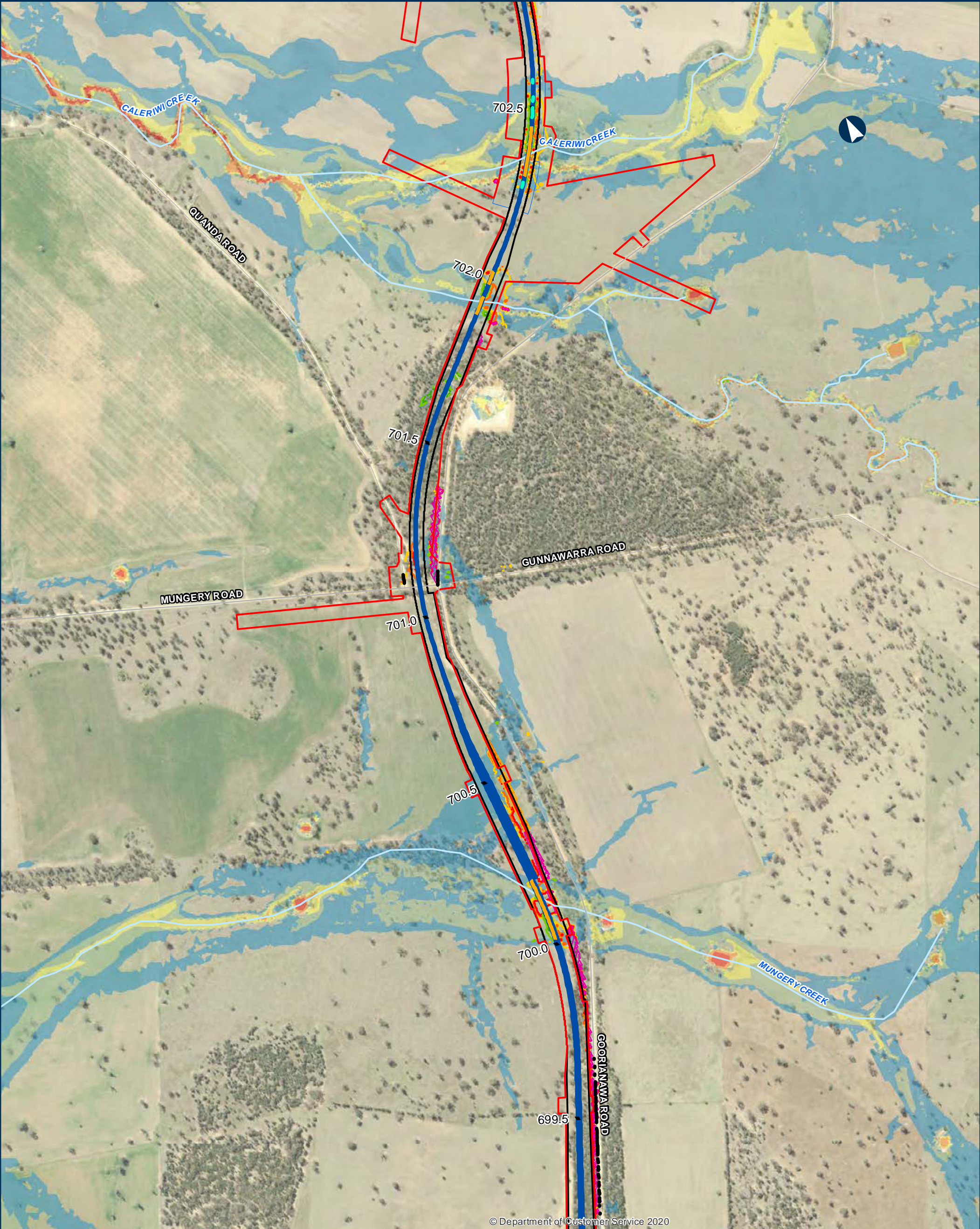
- Culvert
- Road QDL departure
- Alignment
- Sub arterial road
- Watercourse
- The proposal
- Drainage Control Area
- Rail Corridor
- Afflux contour
 - 300mm
 - 200mm
 - 100mm
 - 200mm
 - 300mm
- Area of departure
 - Agricultural >200mm increase
 - Other non-urban >300mm increase

- Existing Flood Depth
- 0.0m - 0.25m
 - 0.25m - 0.5m
 - 0.5m - 1.0m
 - 1.0m - 2.0m
 - > 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.51

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 9/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

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

Bridge

Culvert

Road QDL departure

Alignment

Sub arterial road

Local road

Watercourse

The proposal

Drainage Control Area

Rail Corridor

Afflux contour

-300mm

-200mm

100mm

200mm

300mm

Area of departure

Agricultural >200mm increase

Other non-urban >300mm increase

Existing Flood Depth

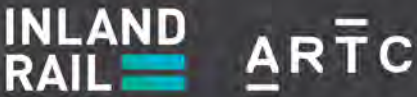
0.0m - 0.25m

0.25m - 0.5m

0.5m - 1.0m

1.0m - 2.0m

> 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.52

0 200 400 Metres

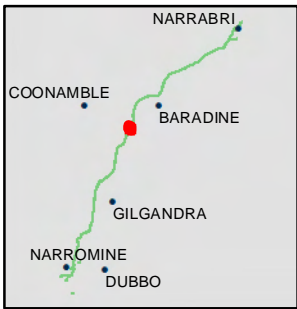
Coordinate System: GDA 1994 MGA Zone 55

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Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Bridge
- Culvert
- Road QDL departure
- Alignment
- Sub arterial road
- Local road
- Watercourse
- The proposal
- Drainage Control Area
- Rail Corridor
- Afflux contour
 - 300mm
 - 200mm
 - 100mm
 - 200mm
 - 300mm
- Area of departure
 - Urban and Infrastructure >100mm increase
 - Agricultural >200mm increase
 - Other non-urban >300mm increase

- Existing Flood Depth
- 0.0m - 0.25m
 - 0.25m - 0.5m
 - 0.5m - 1.0m
 - 1.0m - 2.0m
 - > 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.53

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 9/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

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

Bridge

Culvert

Alignment

Watercourse

The proposal

Drainage Control Area

Rail Corridor

Afflux contour

-300mm

-200mm

100mm

200mm

300mm

Area of departure

Agricultural >200mm increase

Other non-urban >300mm increase

Existing Flood Depth

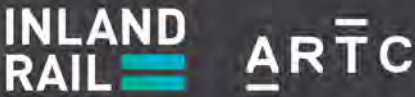
0.0m - 0.25m

0.25m - 0.5m

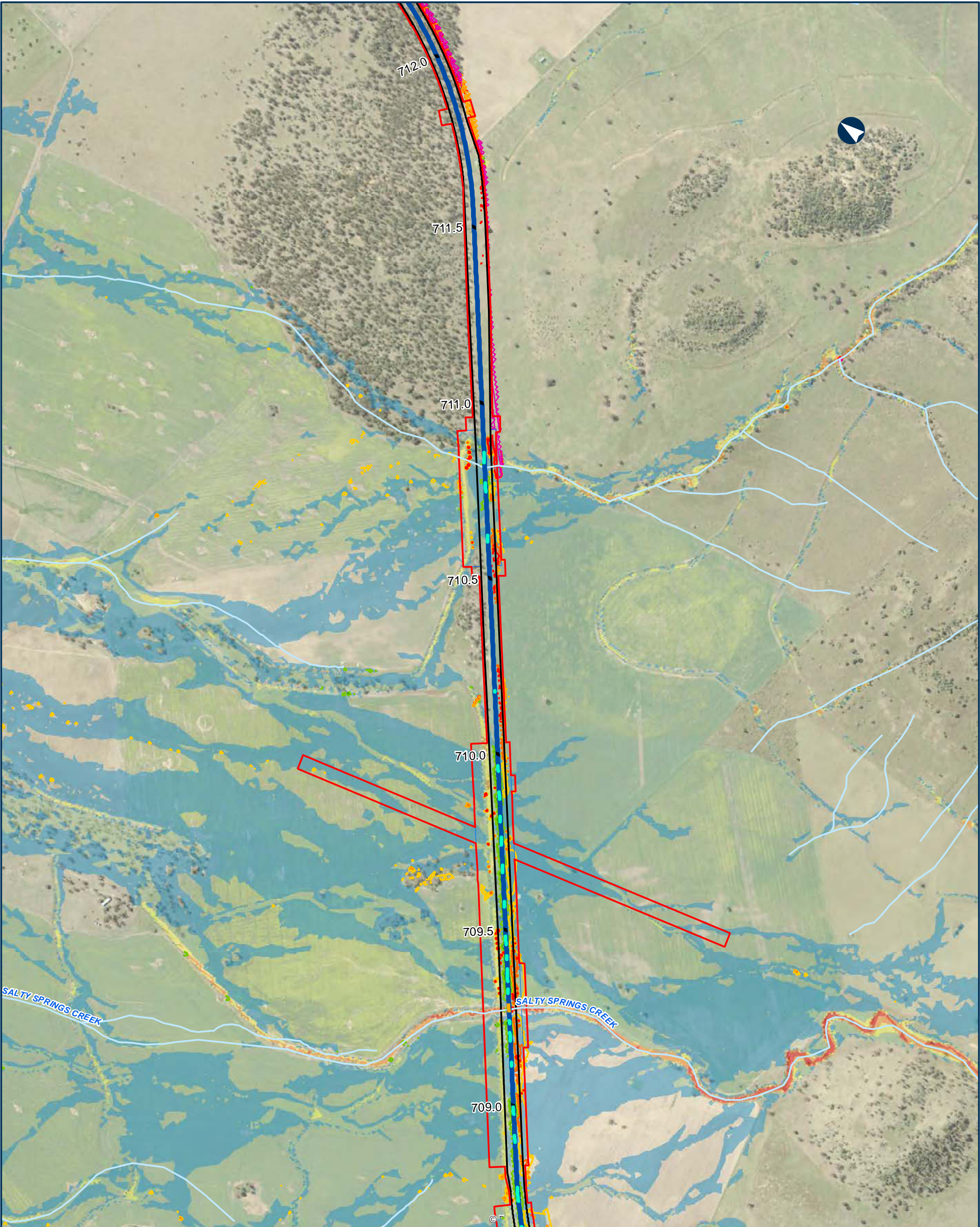
0.5m - 1.0m

1.0m - 2.0m

> 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.54

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

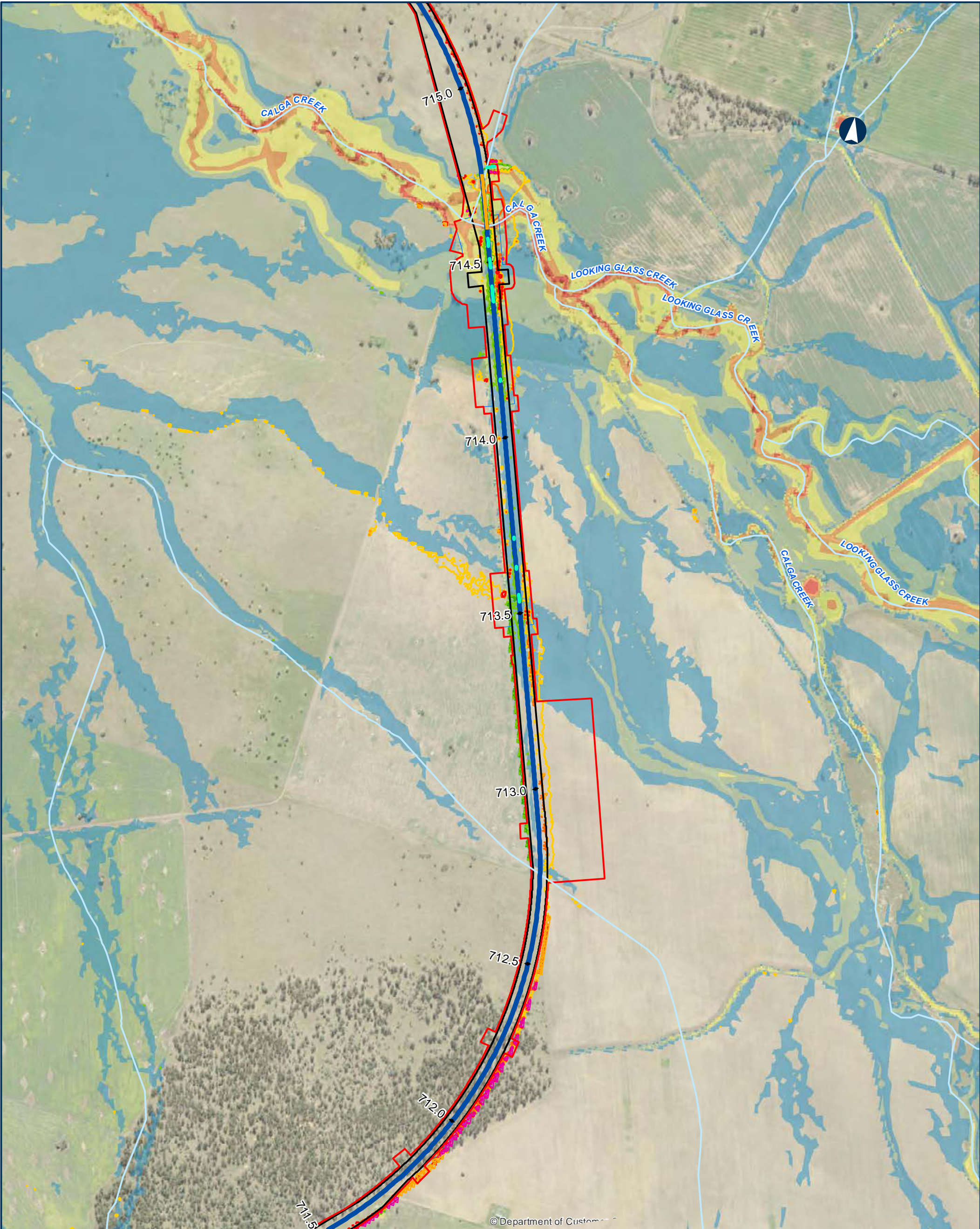
- Bridge
- Culvert
- Alignment
- Watercourse
- The proposal
- Drainage Control Area
- Rail Corridor
- Afflux contour
- 300mm
- 200mm
- 100mm
- 200mm
- 300mm
- Area of departure
- Agricultural >200mm increase
- Other non-urban >300mm increase

- Existing Flood Depth
- 0.0m - 0.25m
 - 0.25m - 0.5m
 - 0.5m - 1.0m
 - 1.0m - 2.0m
 - > 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.55

0200400

Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 9/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

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

Bridge

Culvert

Alignment

Watercourse

The proposal

Drainage Control Area

Rail Corridor

Afflux contour

-300mm

-200mm

100mm

200mm

300mm

Area of departure

Agricultural >200mm increase

Other non-urban >300mm increase

Existing Flood Depth

0.0m - 0.25m

0.25m - 0.5m

0.5m - 1.0m

1.0m - 2.0m

> 2.0m

NARRABRI

COONAMBLE

BARADINE

GILGANDRA

NARROMINE

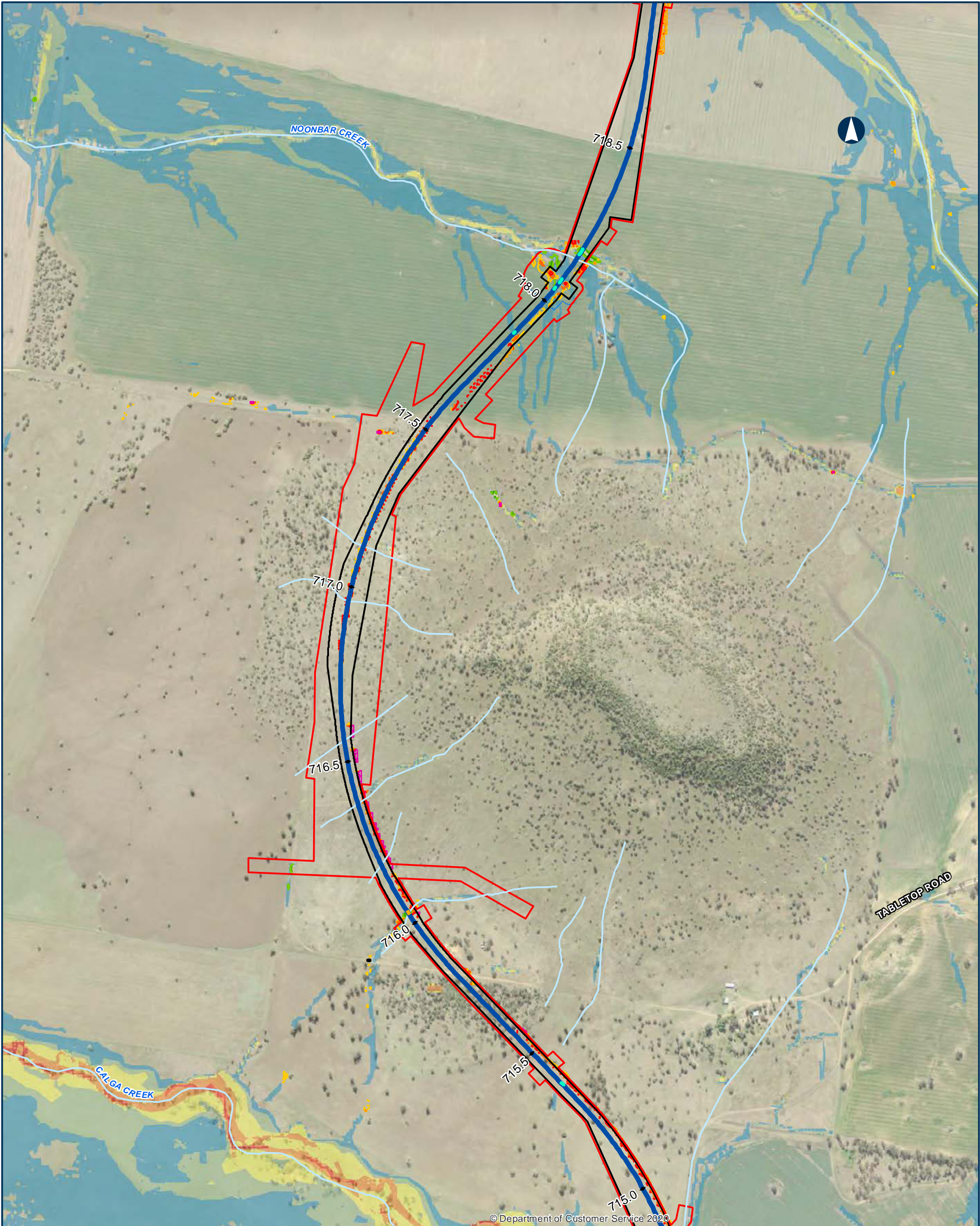
DUBBO

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N:\AU\Newcastle\Projects\2219593\GIS\GIS_2500_N2N_v2\Maps\Deliverables_SPIR\EIS\Flooding_Hydrology\Appendices\2500_EISFWPAPP088_QDL_Afflux_1pcBlockage_revD.mxd



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.56

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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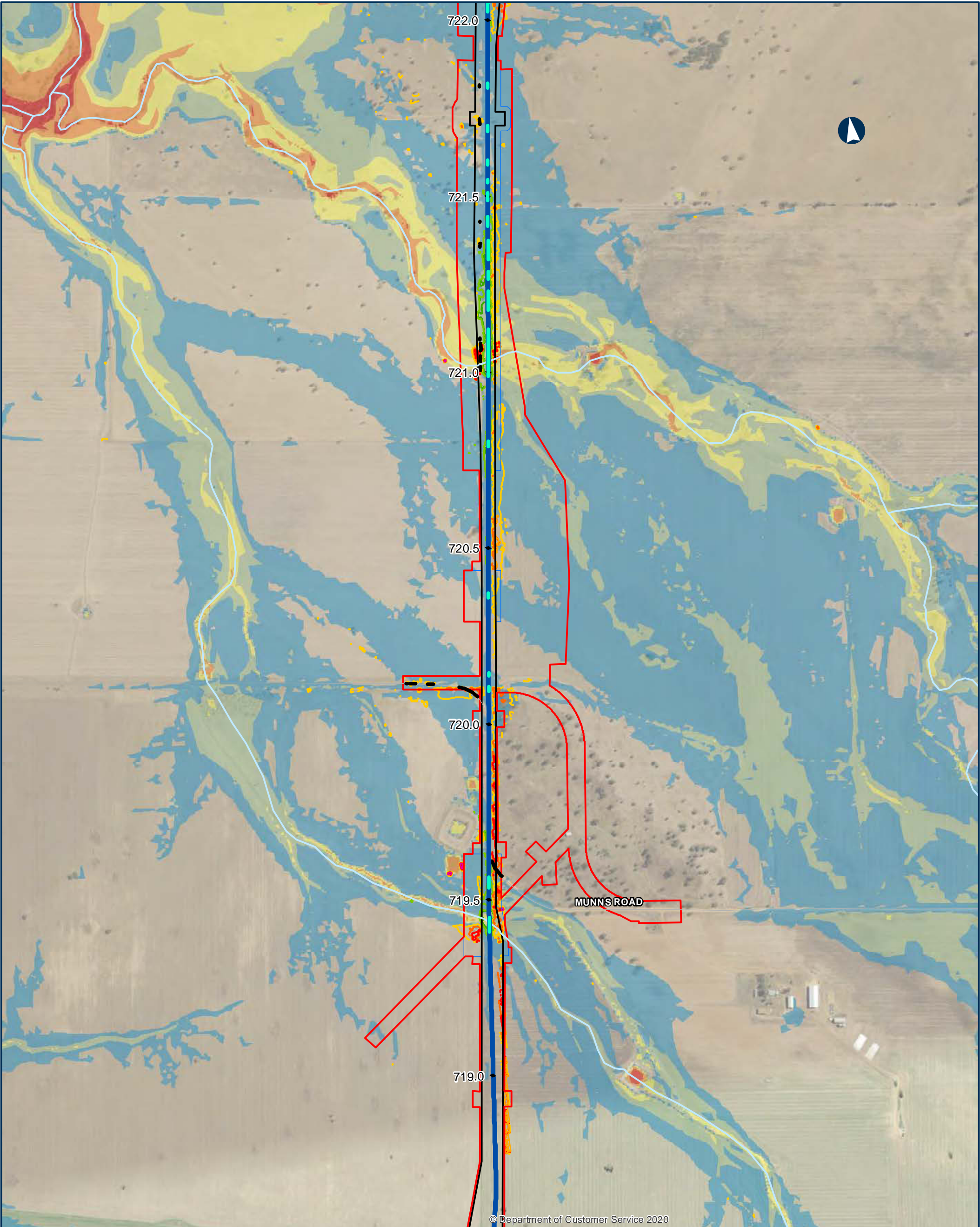
Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Bridge
- Culvert
- Road QDL departure
- Alignment
- Local road
- Watercourse
- The proposal
- Drainage Control Area
- Rail Corridor
- Afflux contour
 - 300mm
 - 200mm
 - 100mm
 - 200mm
 - 300mm
- Area of departure
 - Agricultural >200mm increase
 - Other non-urban >300mm increase
- Existing Flood Depth
 - 0.0m - 0.25m
 - 0.25m - 0.5m
 - 0.5m - 1.0m
 - 1.0m - 2.0m
 - > 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.57

0 200 400 Metres

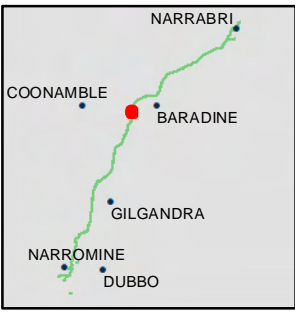
Coordinate System: GDA 1994 MGA Zone 55

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Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

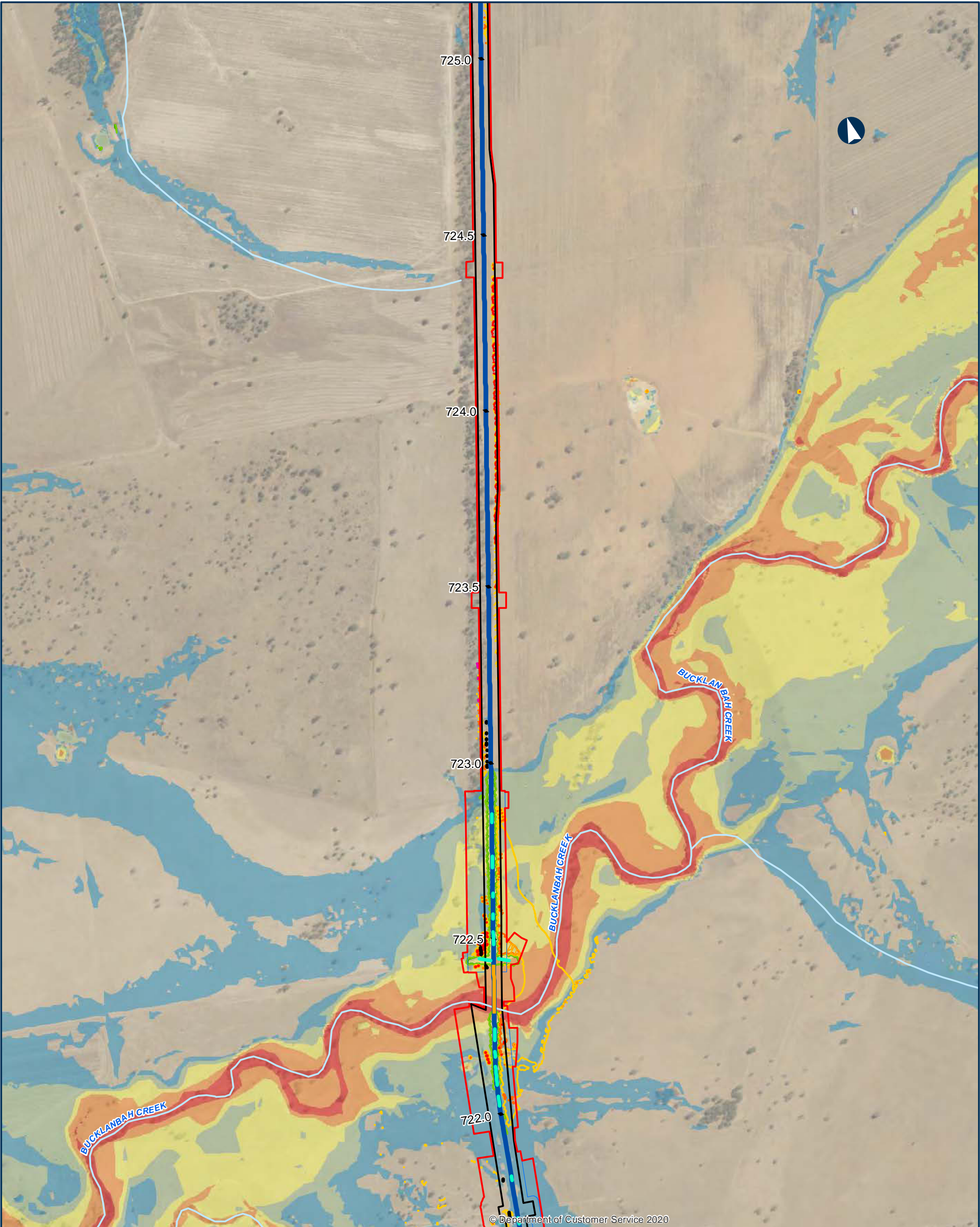
- Culvert
- Road QDL departure
- Alignment
- Local road
- Watercourse
- The proposal
- Drainage Control Area
- Rail Corridor
- Afflux contour
 - 300mm
 - 200mm
 - 100mm
 - 200mm
 - 300mm
- Area of departure
 - Agricultural >200mm increase
 - Other non-urban >300mm increase

- Existing Flood Depth
- 0.0m - 0.25m
 - 0.25m - 0.5m
 - 0.5m - 1.0m
 - 1.0m - 2.0m
 - > 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.58

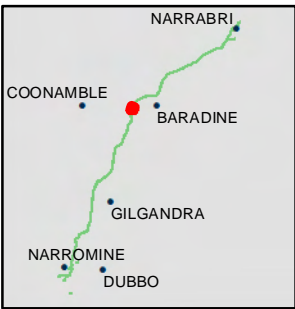
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55
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Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

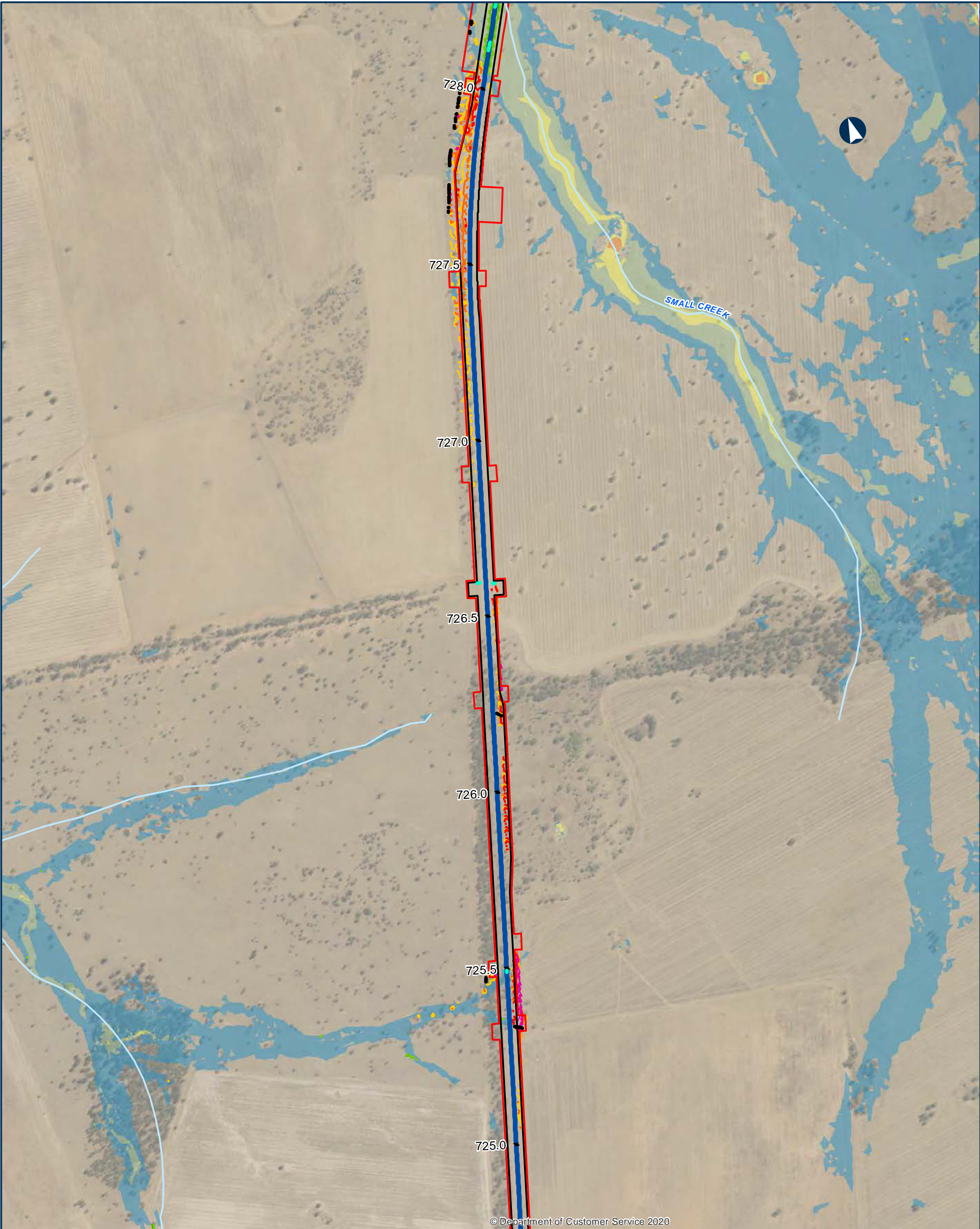
- Bridge
- Culvert
- Road QDL departure
- Alignment
- Watercourse
- The proposal
- Drainage Control Area
- Rail Corridor
- Afflux contour
 - 300mm
 - 200mm
 - 100mm
 - 200mm
 - 300mm
- Area of departure
 - Agricultural >200mm increase
 - Other non-urban >300mm increase

- Existing Flood Depth
- 0.0m - 0.25m
 - 0.25m - 0.5m
 - 0.5m - 1.0m
 - 1.0m - 2.0m
 - > 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.59

0 200 400 Metres

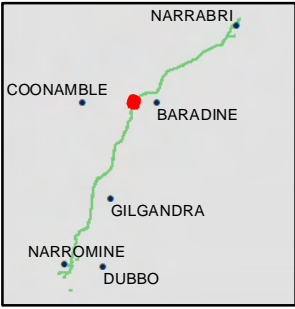
Coordinate System: GDA 1994 MGA Zone 55

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

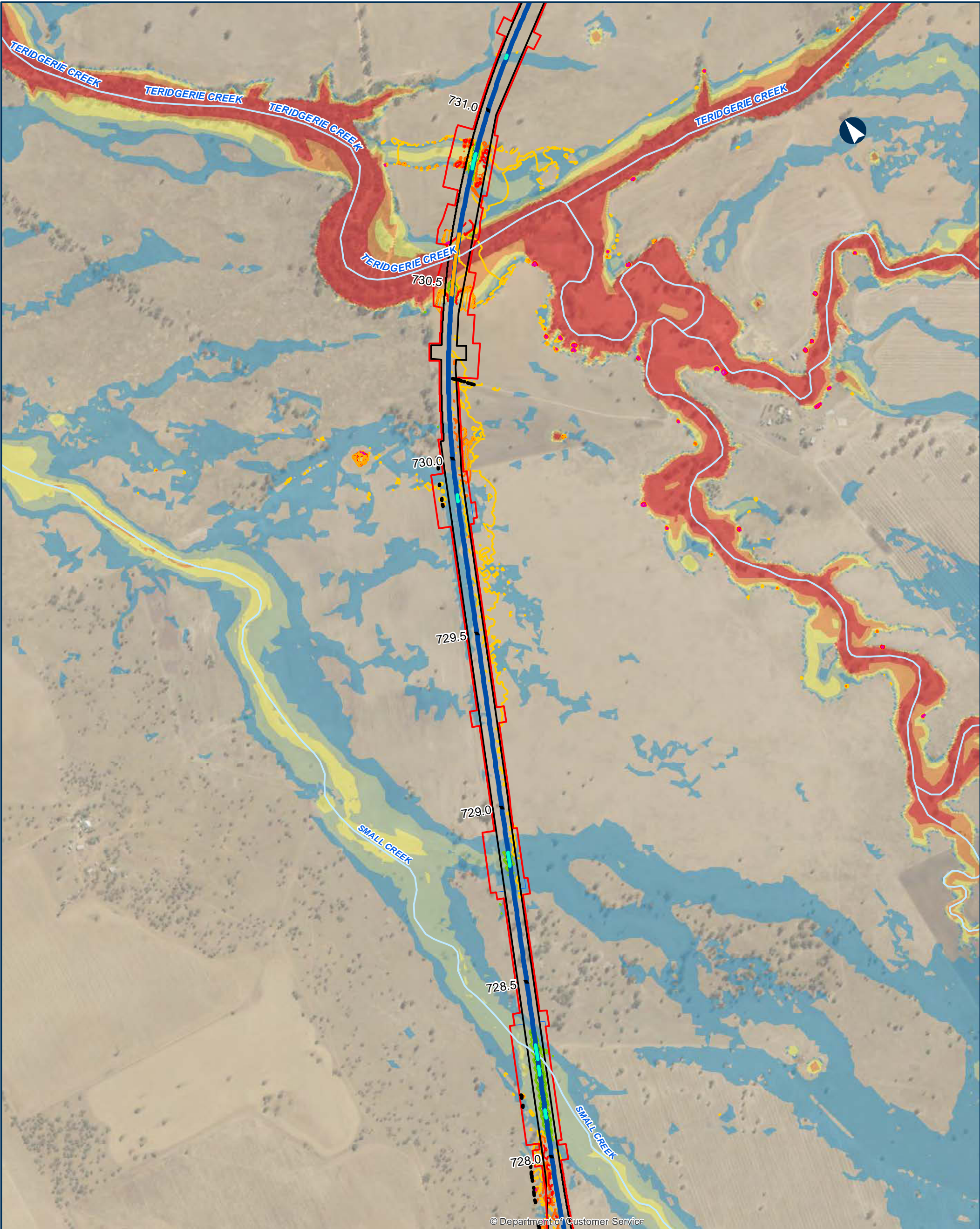
- Culvert
- Road QDL departure
- Alignment
- Watercourse
- The proposal
- Drainage Control Area
- Rail Corridor
- Afflux contour
 - 300mm
 - 200mm
 - 100mm
 - 200mm
 - 300mm
- Area of departure
 - Agricultural >200mm increase
 - Other non-urban >300mm increase

- Existing Flood Depth
- 0.0m - 0.25m
 - 0.25m - 0.5m
 - 0.5m - 1.0m
 - 1.0m - 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.60

0 200 400 Metres

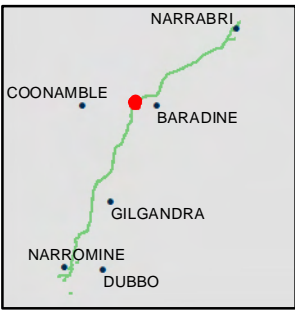
Coordinate System: GDA 1994 MGA Zone 55

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

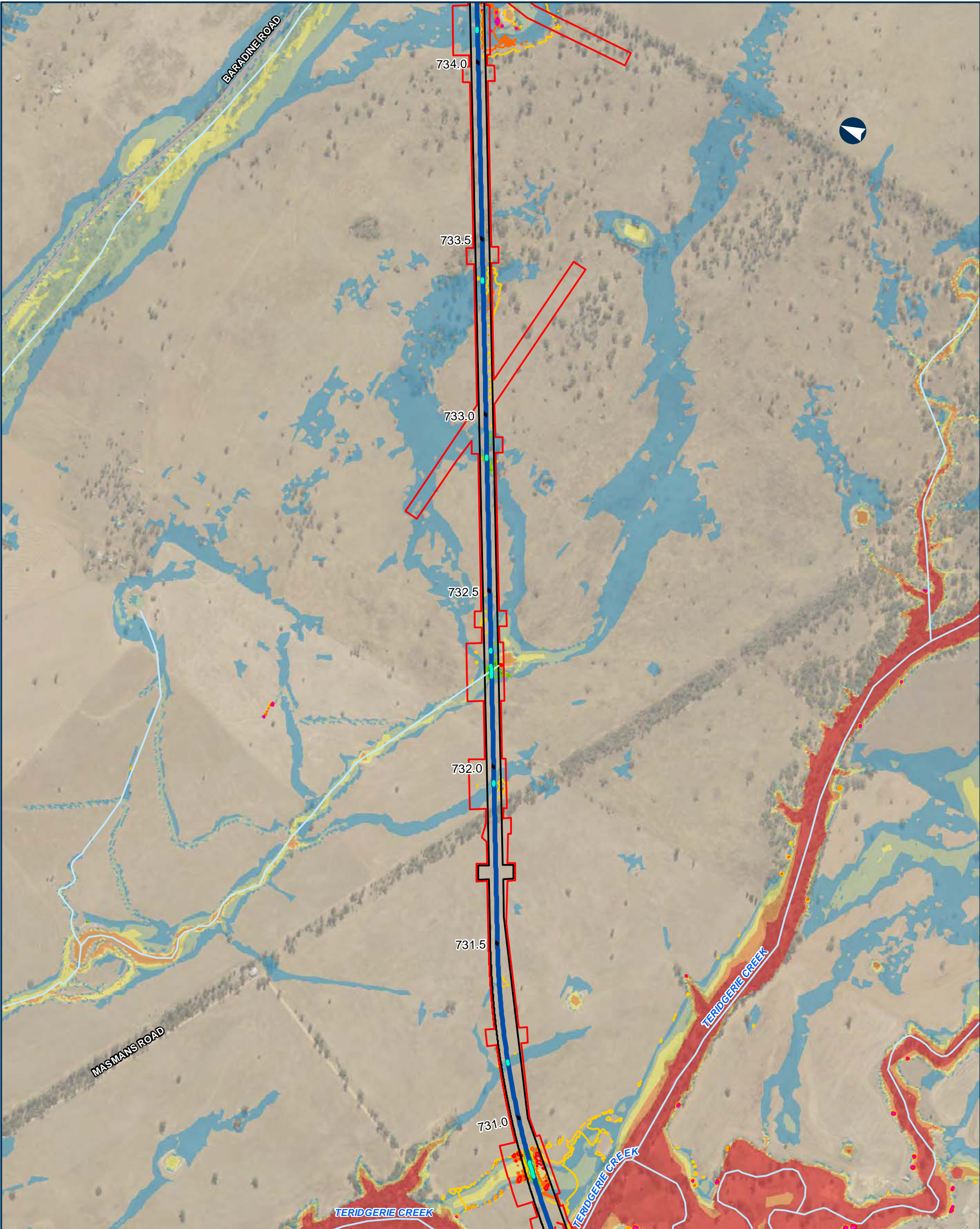
- Bridge
- Culvert
- Road QDL departure
- Alignment
- Watercourse
- The proposal
- Drainage Control Area
- Rail Corridor
- Afflux contour
 - 300mm
 - 200mm
 - 100mm
 - 100mm
 - 200mm
 - 300mm
- Area of departure
 - Agricultural >200mm increase
 - Other non-urban >300mm increase

- Existing Flood Depth
- 0.0m - 0.25m
 - 0.25m - 0.5m
 - 0.5m - 1.0m
 - 1.0m - 2.0m
 - > 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.61

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

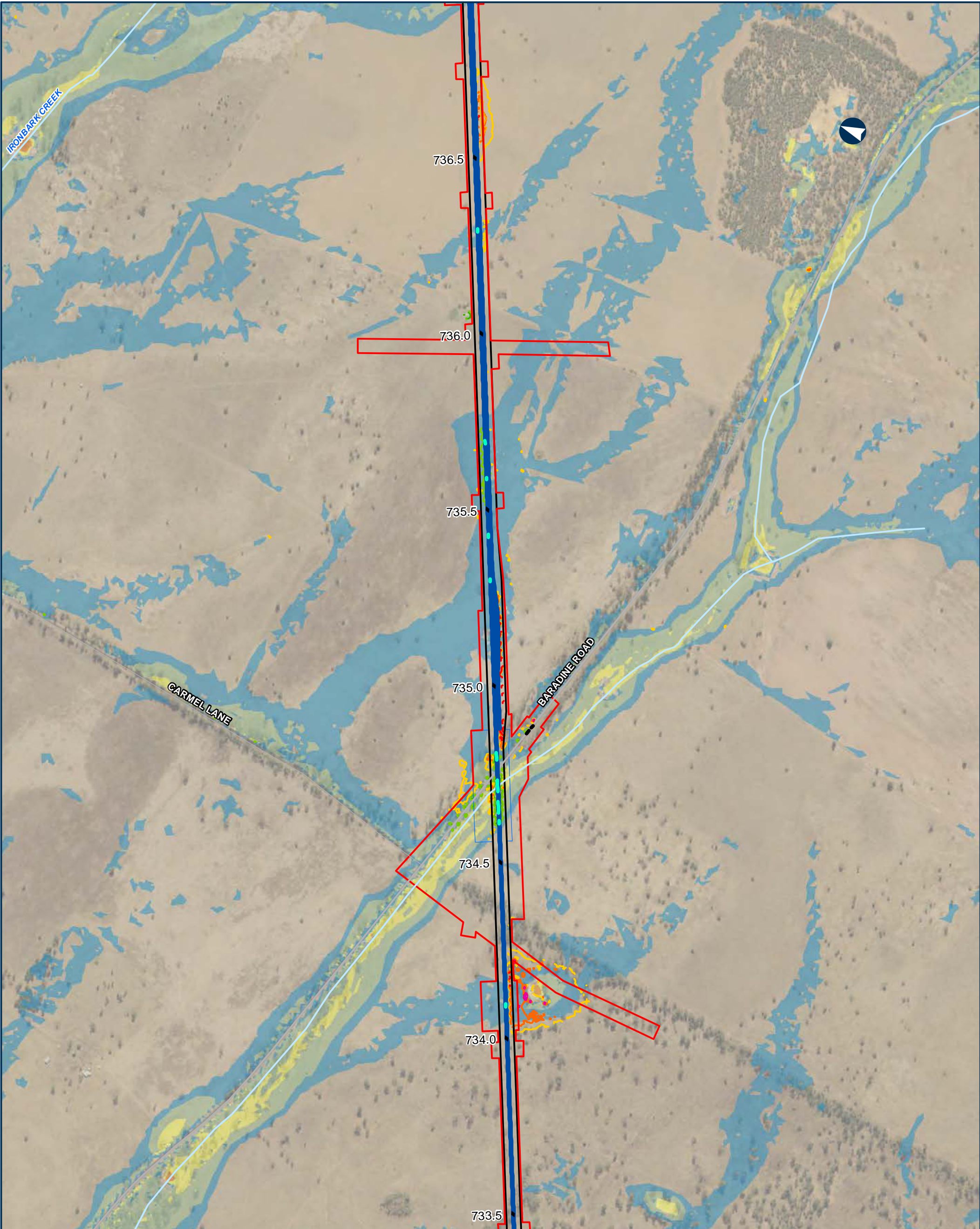
- Culvert
- Alignment
- Arterial road
- Local road
- Watercourse
- The proposal
- Drainage Control Area
- Rail Corridor
- Afflux contour
- 300mm
- 200mm
- 100mm
- 200mm
- 300mm
- Area of departure
- Agricultural >200mm increase
- Other non-urban >300mm increase

- Existing Flood Depth
- 0.0m - 0.25m
 - 0.25m - 0.5m
 - 0.5m - 1.0m
 - 1.0m - 2.0m
 - > 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.62

0 200 400 Metres

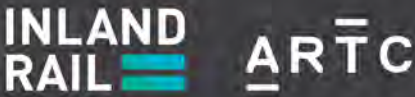
Coordinate System: GDA 1994 MGA Zone 55

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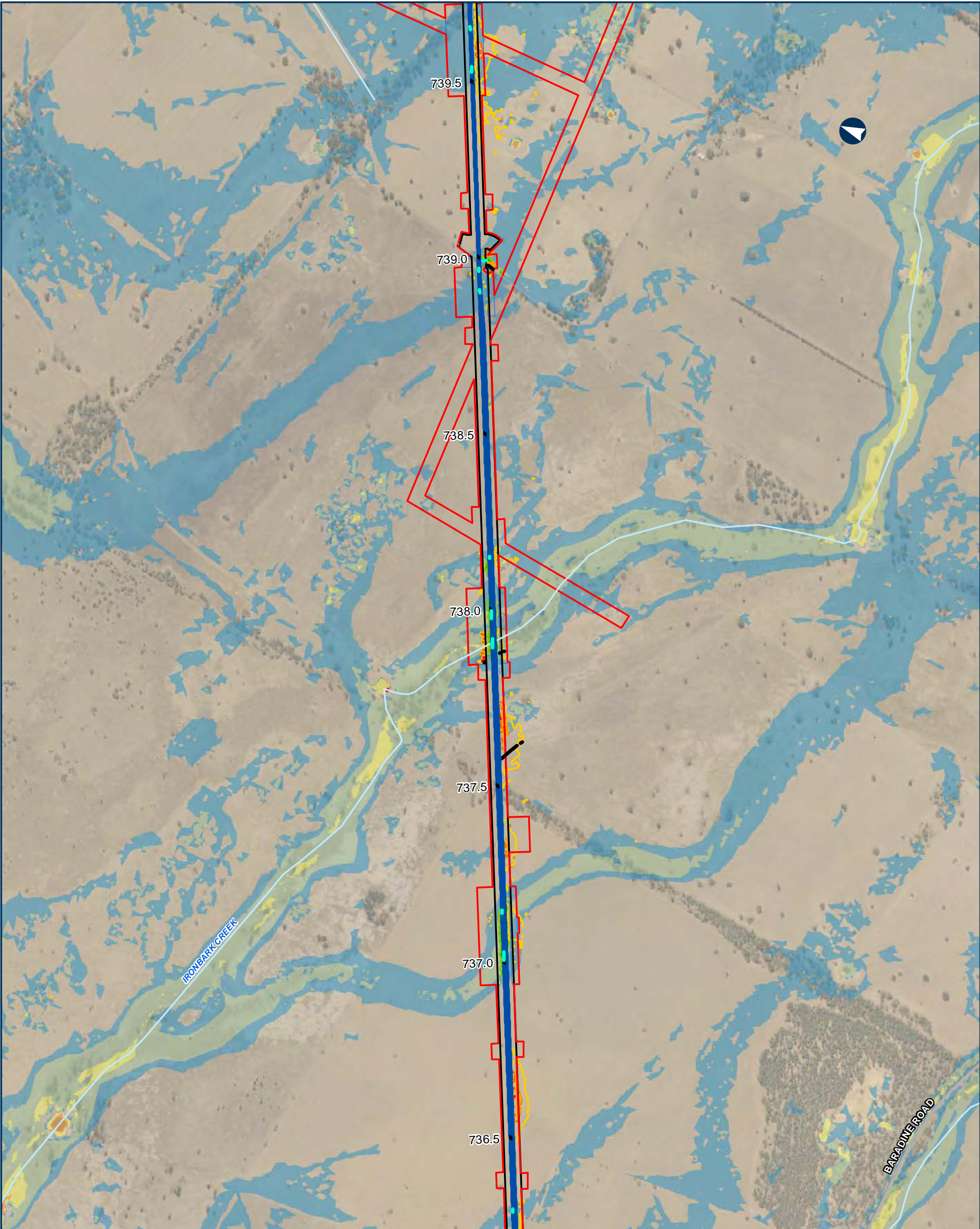
Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Culvert
- Road QDL departure
- Alignment
- Arterial road
- Local road
- Watercourse
- The proposal
- Drainage Control Area
- Rail Corridor
- Afflux contour
 - 300mm
 - 200mm
 - 100mm
 - 200mm
 - 300mm
- Area of departure
 - Agricultural >200mm increase
 - Other non-urban >300mm increase

- Existing Flood Depth
- 0.0m - 0.25m
 - 0.25m - 0.5m
 - 0.5m - 1.0m
 - 1.0m - 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.63

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Culvert

Road QDL departure

Alignment

Arterial road

Local road

Watercourse
- The proposal

Drainage Control Area

Rail Corridor

Afflux contour

-300mm

-200mm

-100mm

0mm

100mm

200mm

300mm

Area of departure

Agricultural >200mm increase

Other non-urban >300mm increase
- Existing Flood Depth

0.0m - 0.25m

0.25m - 0.5m

0.5m - 1.0m

1.0m - 2.0m

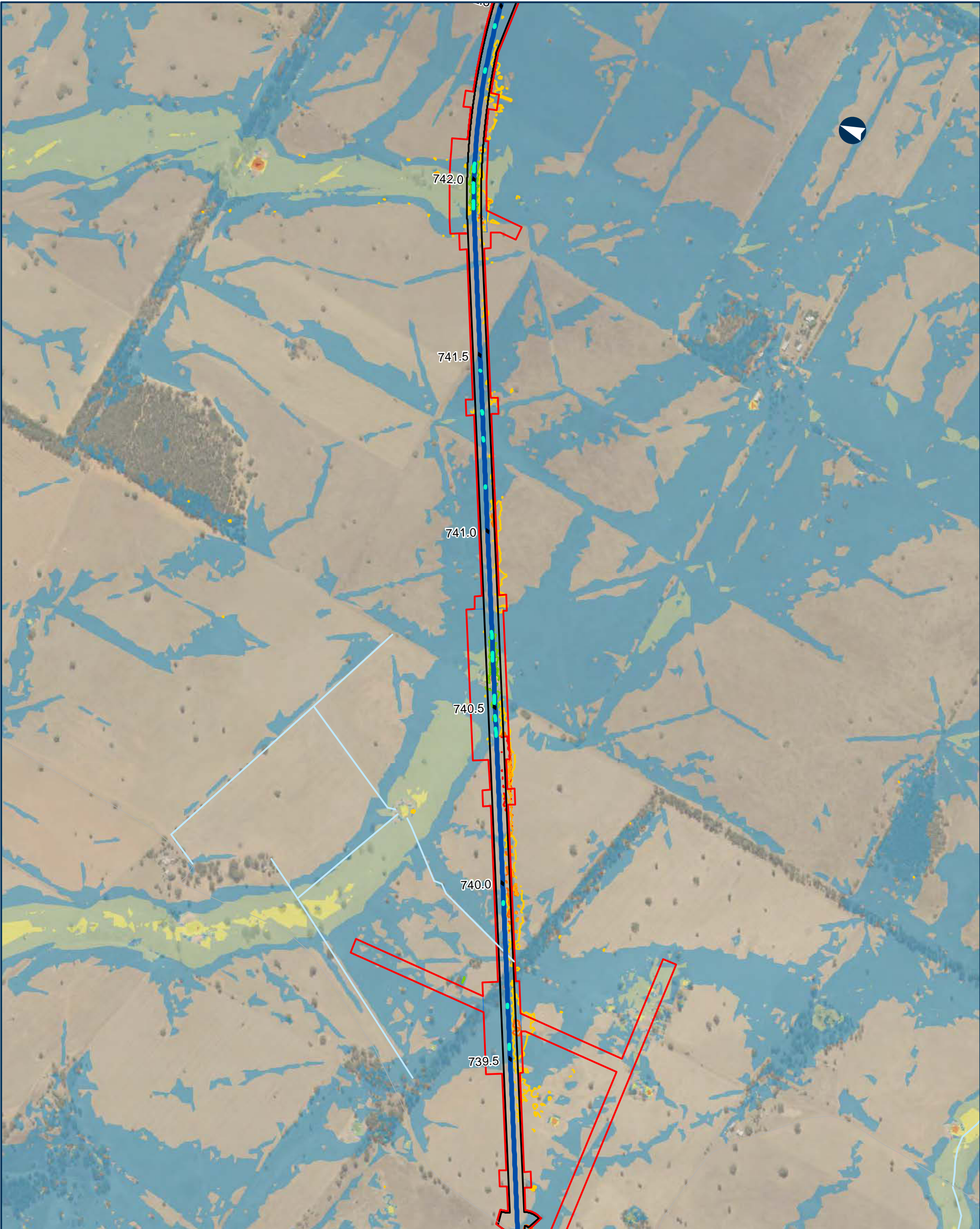
> 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.64

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 9/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

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

Culvert

Alignment

Local road

Watercourse

The proposal

Drainage Control Area

Rail Corridor

Afflux contour

-300mm

-200mm

100mm

200mm

300mm

Area of departure

Agricultural >200mm increase

Existing Flood Depth

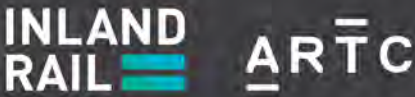
0.0m - 0.25m

0.25m - 0.5m

0.5m - 1.0m

1.0m - 2.0m

> 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.65

0 200 400 Metres

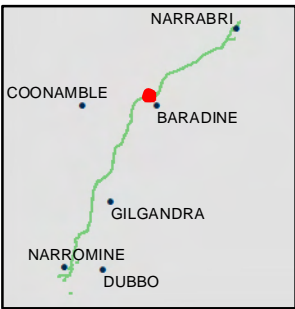
Coordinate System: GDA 1994 MGA Zone 55

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

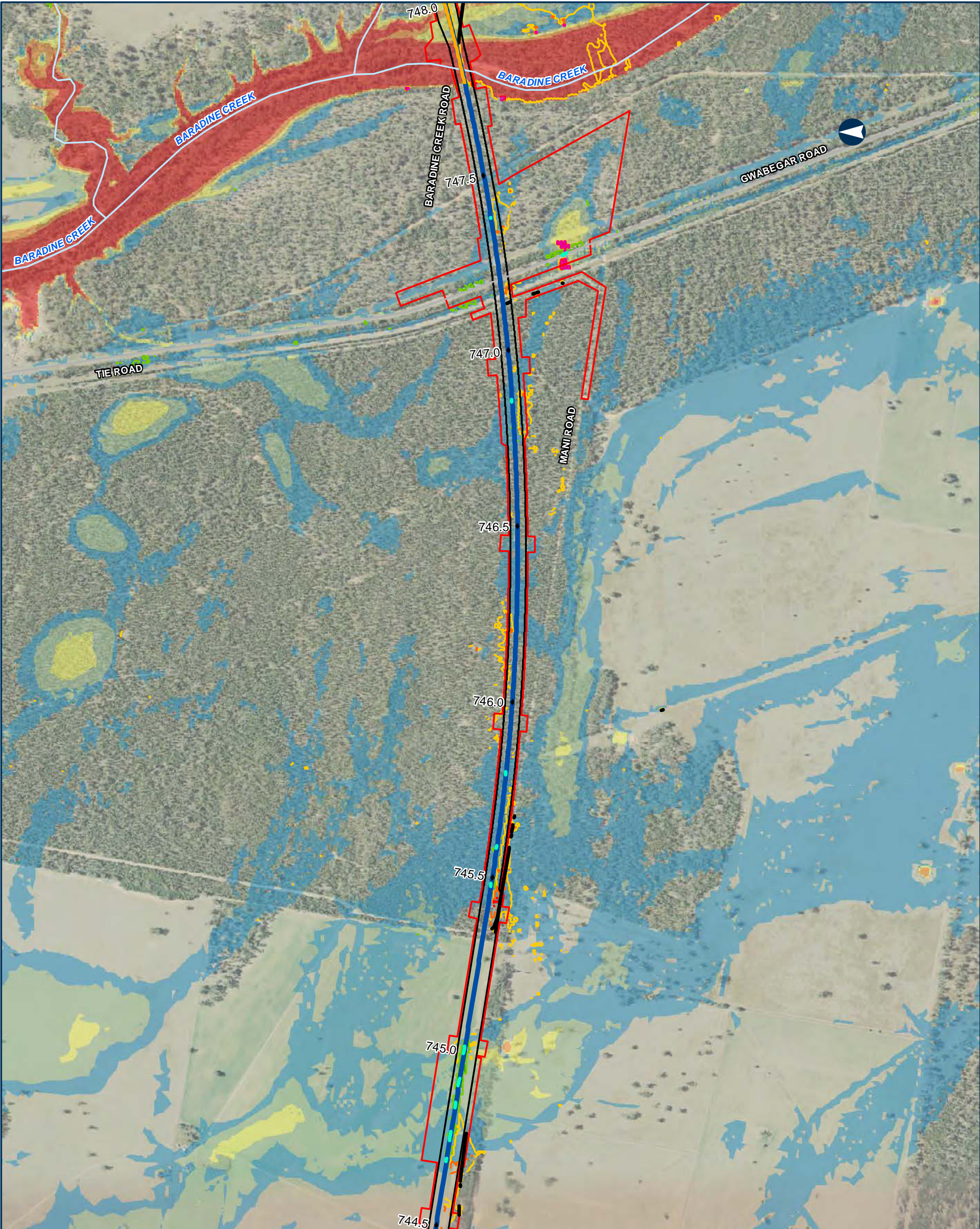
- Culvert
- Road QDL departure
- Alignment
- Local road
- Watercourse
- The proposal
- Drainage Control Area
- Rail Corridor
- Afflux contour
 - 300mm
 - 200mm
 - 100mm
 - 0mm
 - 100mm
 - 200mm
 - 300mm
- Area of departure
 - Agricultural >200mm increase

- Existing Flood Depth
 - 0.0m - 0.25m
 - 0.25m - 0.5m
 - 0.5m - 1.0m
 - 1.0m - 2.0m
 - > 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.66

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

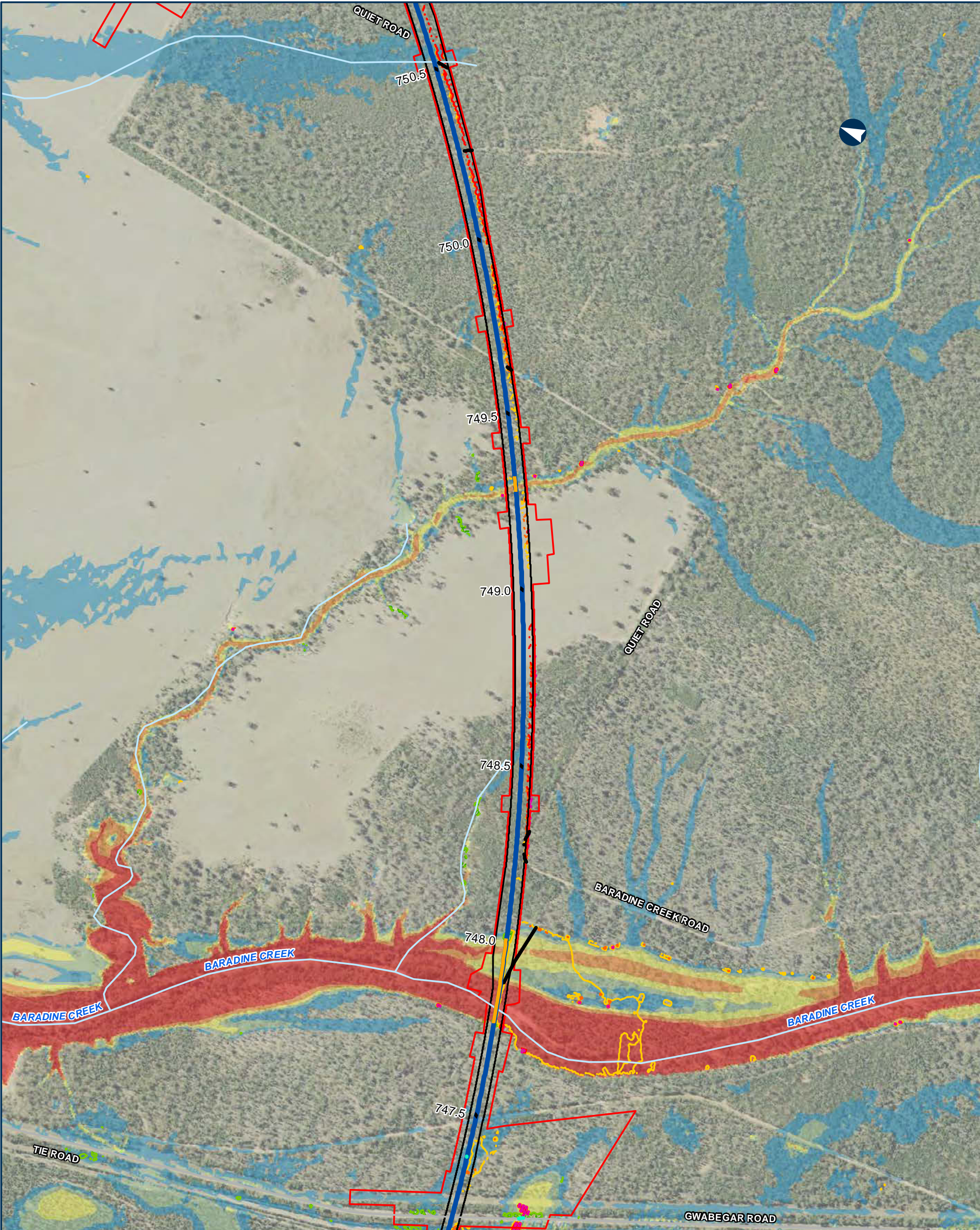
- Bridge
- Culvert
- Road QDL departure
- Alignment
- Arterial road
- Watercourse
- The proposal
- Drainage Control Area
- Rail Corridor
- Afflux contour
 - 300mm
 - 200mm
 - 100mm
 - 200mm
 - 300mm
- Area of departure
 - Other non-urban >300mm increase

- Existing Flood Depth
- 0.0m - 0.25m
 - 0.25m - 0.5m
 - 0.5m - 1.0m
 - 1.0m - 2.0m
 - > 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.67

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

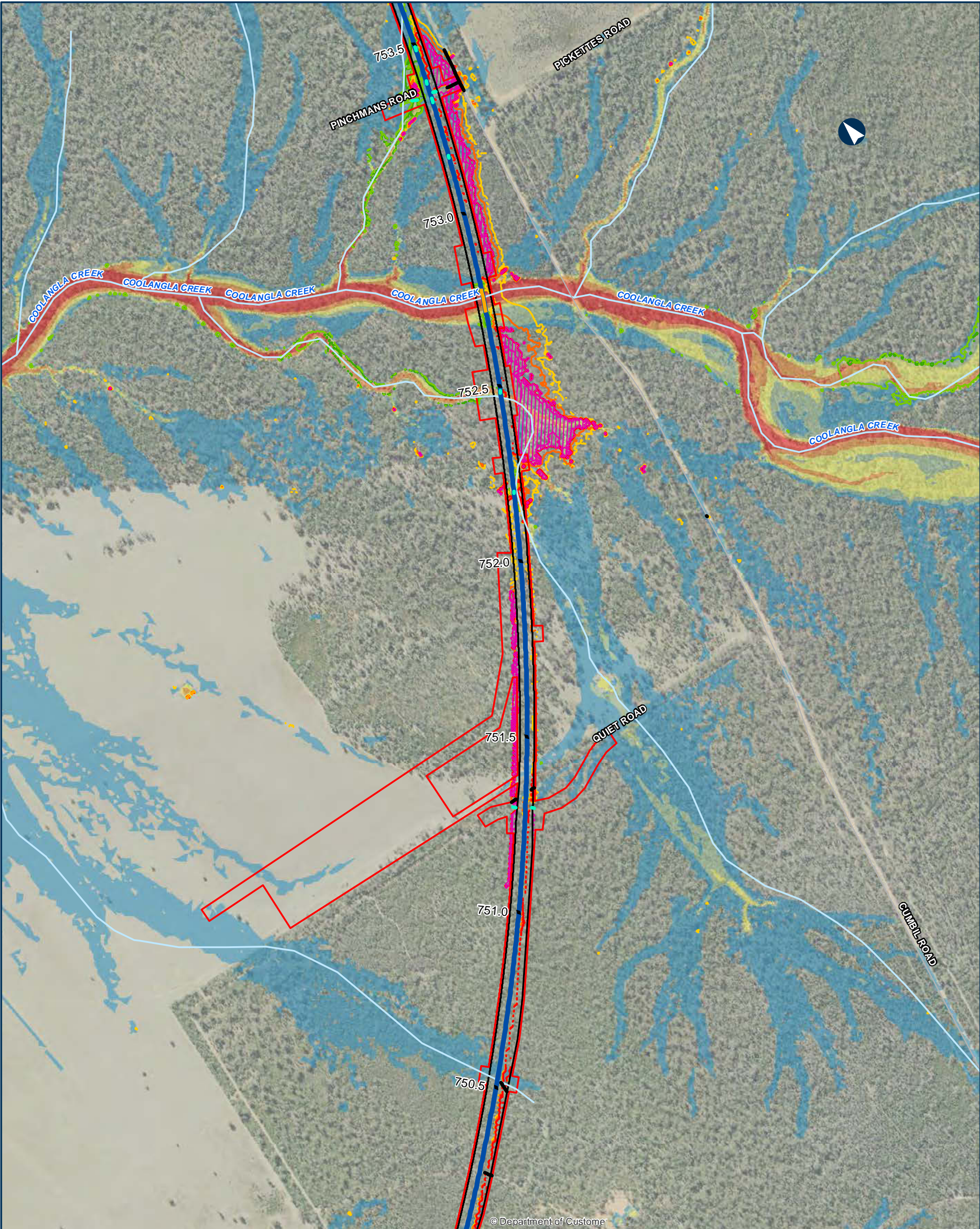
- Bridge
- Culvert
- Road QDL departure
- Alignment
- Arterial road
- Watercourse
- The proposal
- Rail Corridor
- Afflux contour
- 300mm
- 200mm
- 100mm
- 200mm
- 300mm
- Area of departure
- Other non-urban >300mm increase

- Existing Flood Depth
- 0.0m - 0.25m
 - 0.25m - 0.5m
 - 0.5m - 1.0m
 - 1.0m - 2.0m
 - > 2.0m



INLAND RAIL ARTC

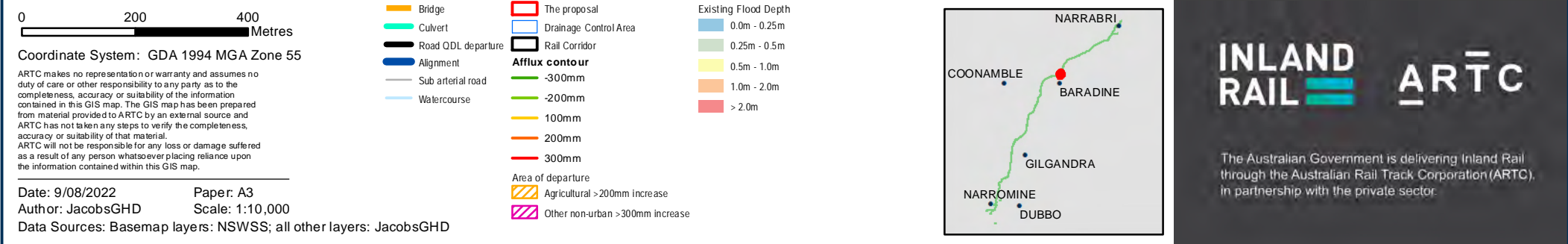
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC), in partnership with the private sector.

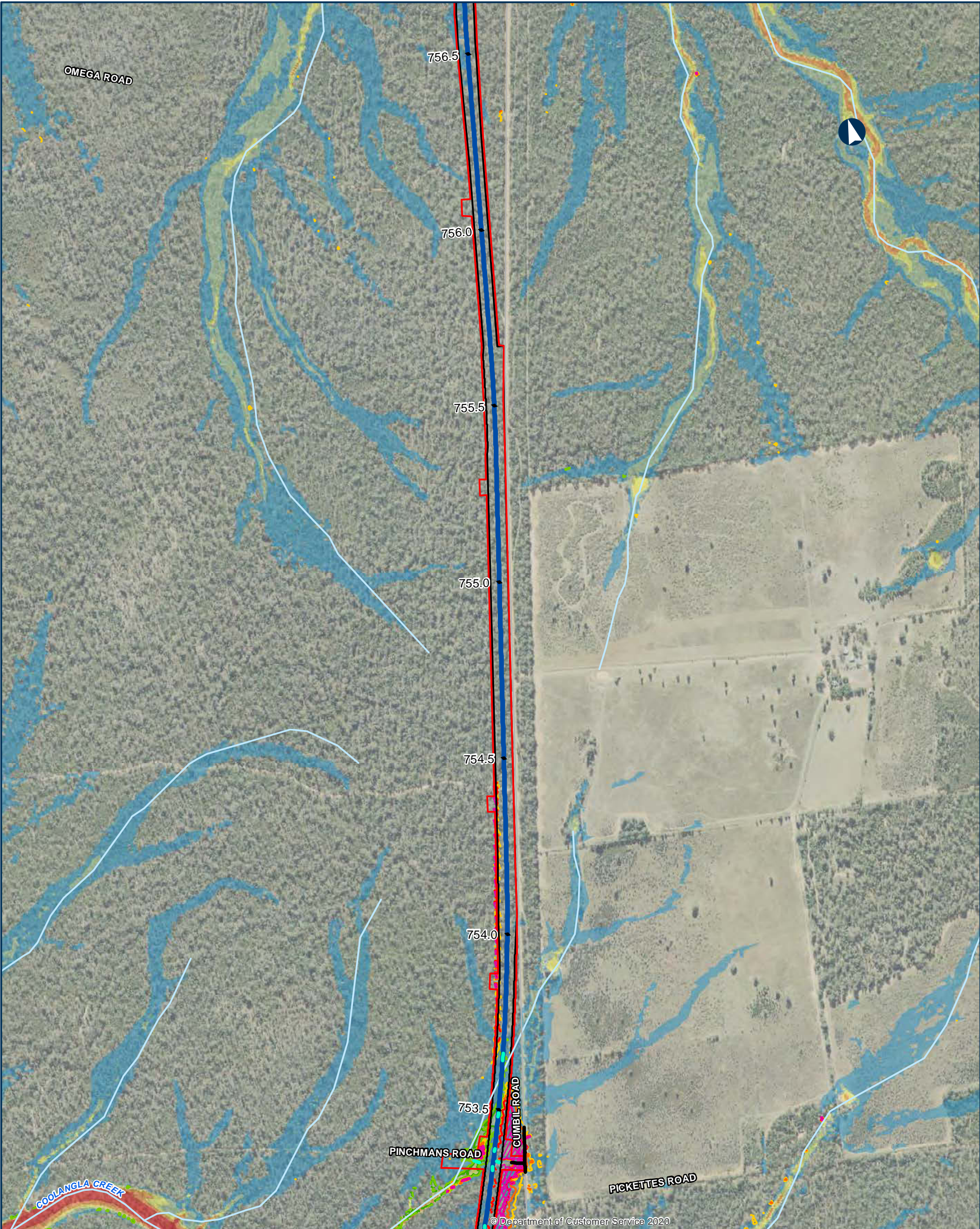


NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.68





NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.69

0

200

400

Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 9/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

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

Culvert

Road QDL departure

Alignment

Sub arterial road

Watercourse

The proposal

Rail Corridor

Afflux contour

-300mm

-200mm

100mm

200mm

300mm

Area of departure

Other non-urban >300mm increase

Existing Flood Depth

0.0m - 0.25m

0.25m - 0.5m

0.5m - 1.0m

1.0m - 2.0m

> 2.0m

NARRABRI

COONAMBLE

BARADINE

GILGANDRA

NARROMINE

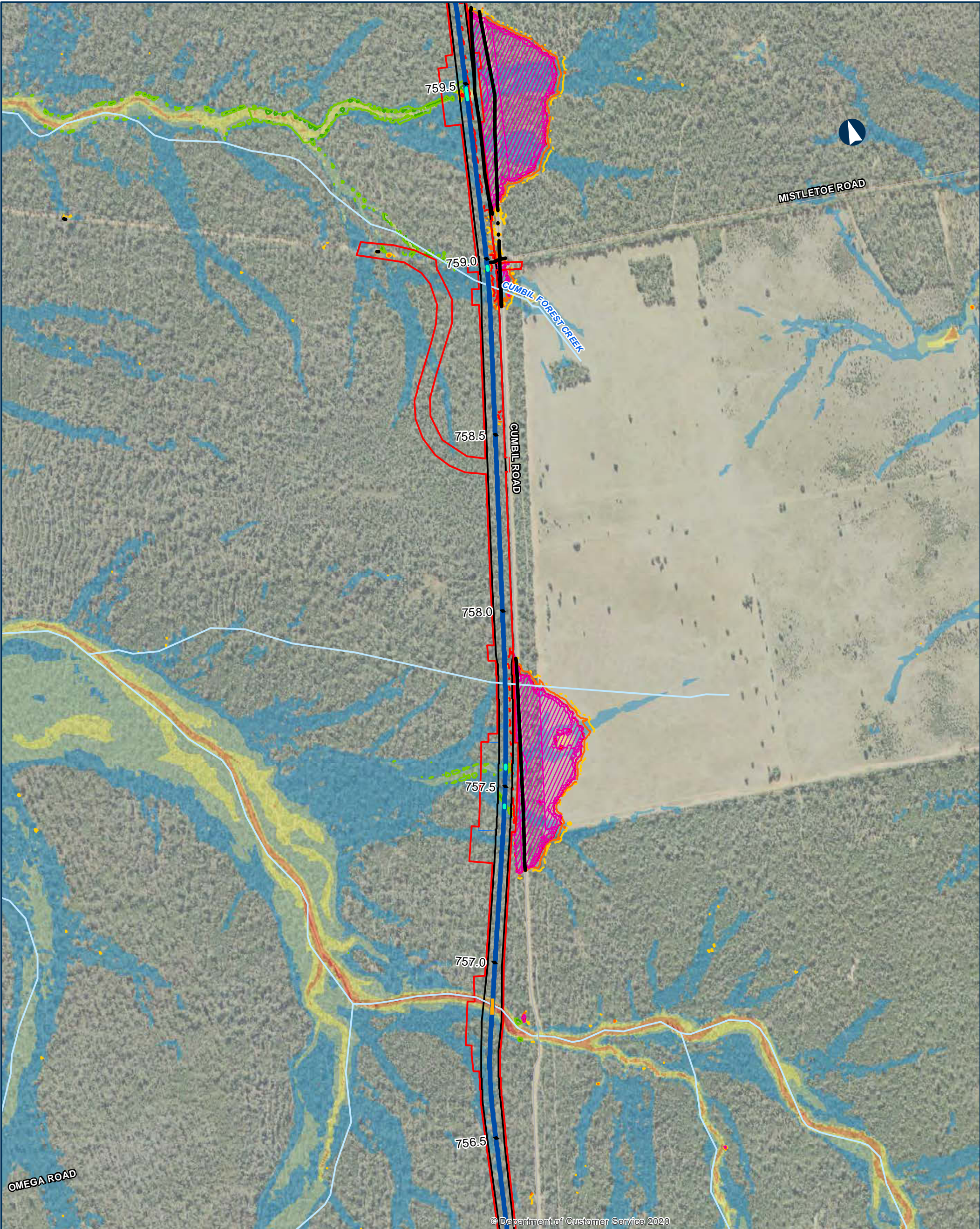
DUBBO

INLAND RAIL

ARTC

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N:\AU\Newcastle\Projects\22\19593\GIS\GIS_2500_N2N_v2\Maps\Deliverables_SPIR\EIS\Flooding_Hydrology\Appendices\2500_EISFWPAPP088_QDL_Afflux_1pcBlockage_revD.mxd



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.70

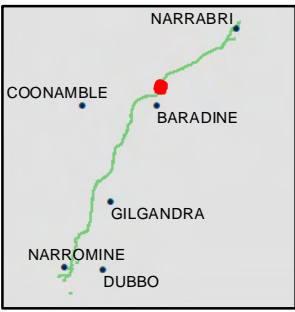
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55
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Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

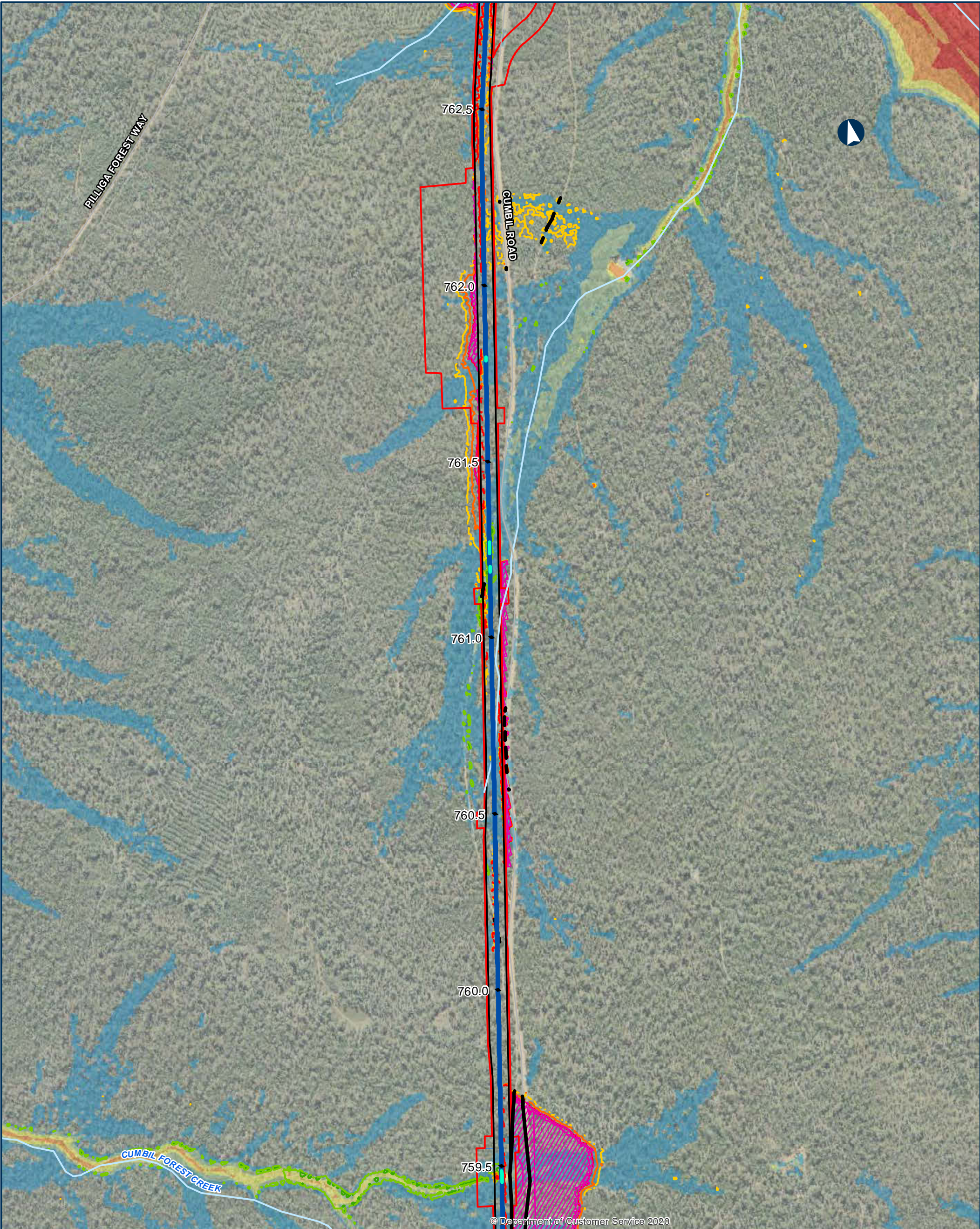
- Bridge
- Culvert
- Road QDL departure
- Alignment
- Sub arterial road
- Local road
- Watercourse
- The proposal
- Drainage Control Area
- Rail Corridor
- Afflux contour
 - 300mm
 - 200mm
 - 100mm
 - 200mm
 - 300mm
- Area of departure
 - Other non-urban >300mm increase

- Existing Flood Depth
- 0.0m - 0.25m
 - 0.25m - 0.5m
 - 0.5m - 1.0m
 - 1.0m - 2.0m
 - > 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.71

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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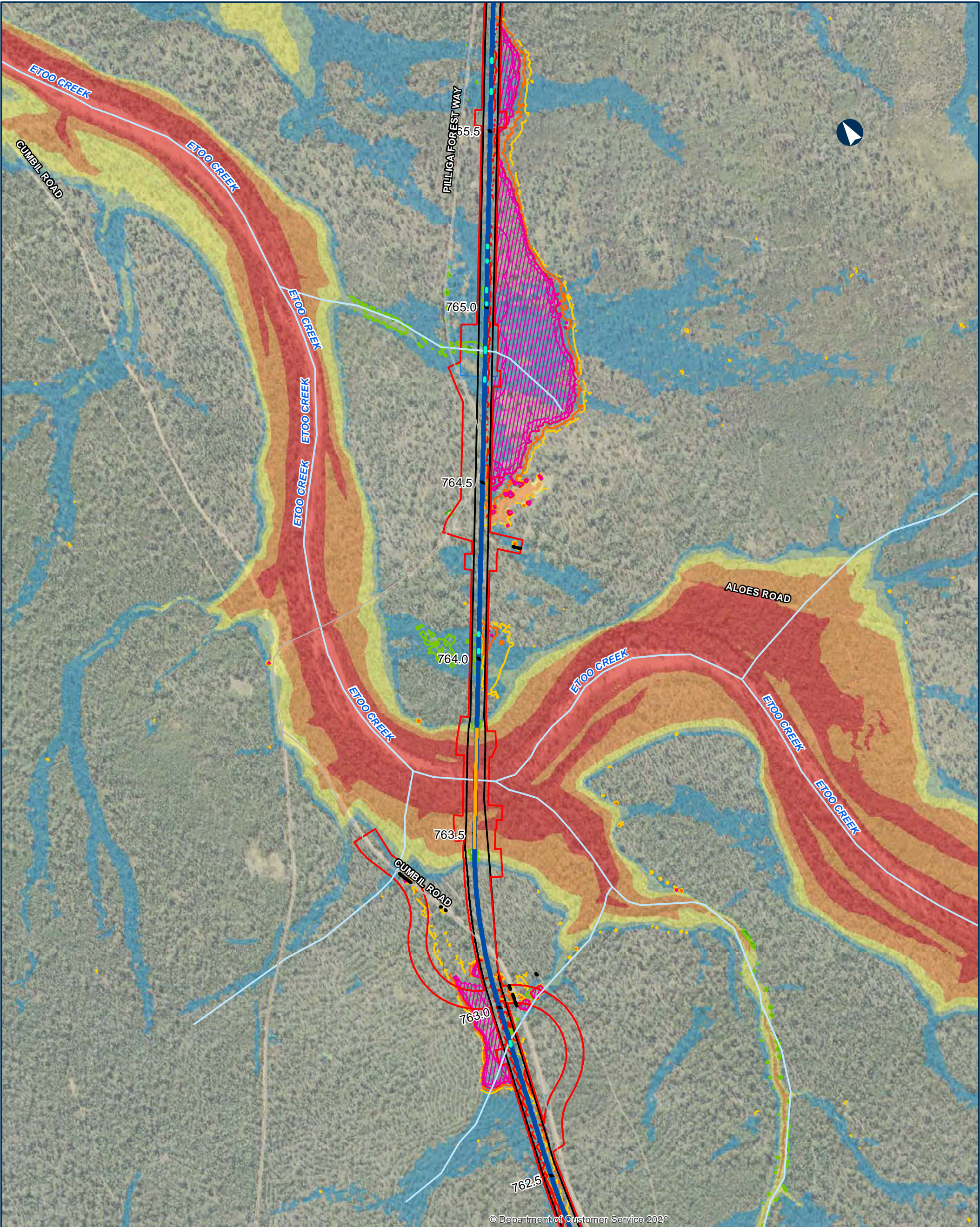
Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Culvert
- Road QDL departure
- Alignment
- Sub arterial road
- Watercourse
- The proposal
- Drainage Control Area
- Rail Corridor
- Afflux contour
 - 300mm
 - 200mm
 - 100mm
 - 200mm
 - 300mm
- Area of departure
 - Other non-urban >300mm increase
- Existing Flood Depth
 - 0.0m - 0.25m
 - 0.25m - 0.5m
 - 0.5m - 1.0m
 - 1.0m - 2.0m
 - > 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.72

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 9/08/2022
Author: JacobsGHD
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

Bridge

Culvert

Road QDL departure

Alignment

Sub arterial road

Watercourse

The proposal

Drainage Control Area

Rail Corridor

Afflux contour

Area of departure

Other non-urban >300mm increase

Existing Flood Depth

0.0m - 0.25m

0.25m - 0.5m

0.5m - 1.0m

1.0m - 2.0m

> 2.0m

NARRABRI

COONAMBLE

BARADINE

GILGANDRA

NARROMINE

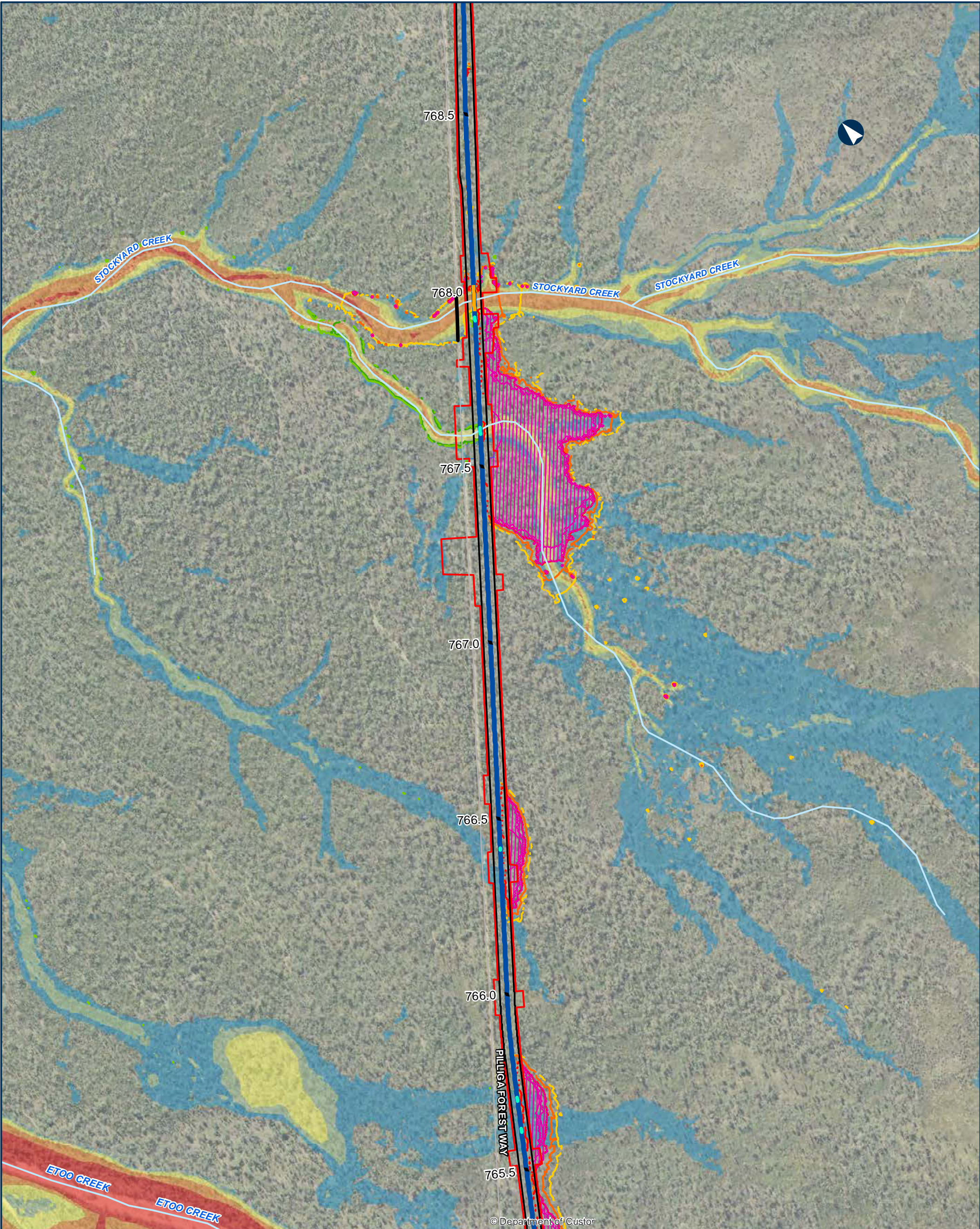
DUBBO

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N:\AU\Newcastle\Projects\2219593\GIS\GIS_2500_N2N_v2\Maps\Deliverables_SPIR\EIS\Flooding_Hydrology\Appendices\2500_EISFWAPP088_QDL_Afflux_1pcBlockage_revD.mxd



NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.73

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Bridge
- Culvert
- Road QDL departure
- Alignment
- Sub arterial road
- Watercourse
- The proposal
- Drainage Control Area
- Rail Corridor
- Afflux contour
 - 300mm
 - 200mm
 - 100mm
 - 200mm
 - 300mm
- Area of departure
 - Other non-urban >300mm increase

- Existing Flood Depth
- 0.0m - 0.25m
 - 0.25m - 0.5m
 - 0.5m - 1.0m
 - 1.0m - 2.0m
 - > 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.74

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Bridge
- Culvert
- Road QDL departure
- Alignment
- Sub arterial road
- Watercourse
- The proposal
- Rail Corridor
- Afflux contour
- 300mm
- 200mm
- 100mm
- 200mm
- 300mm
- Area of departure
- Other non-urban >300mm increase

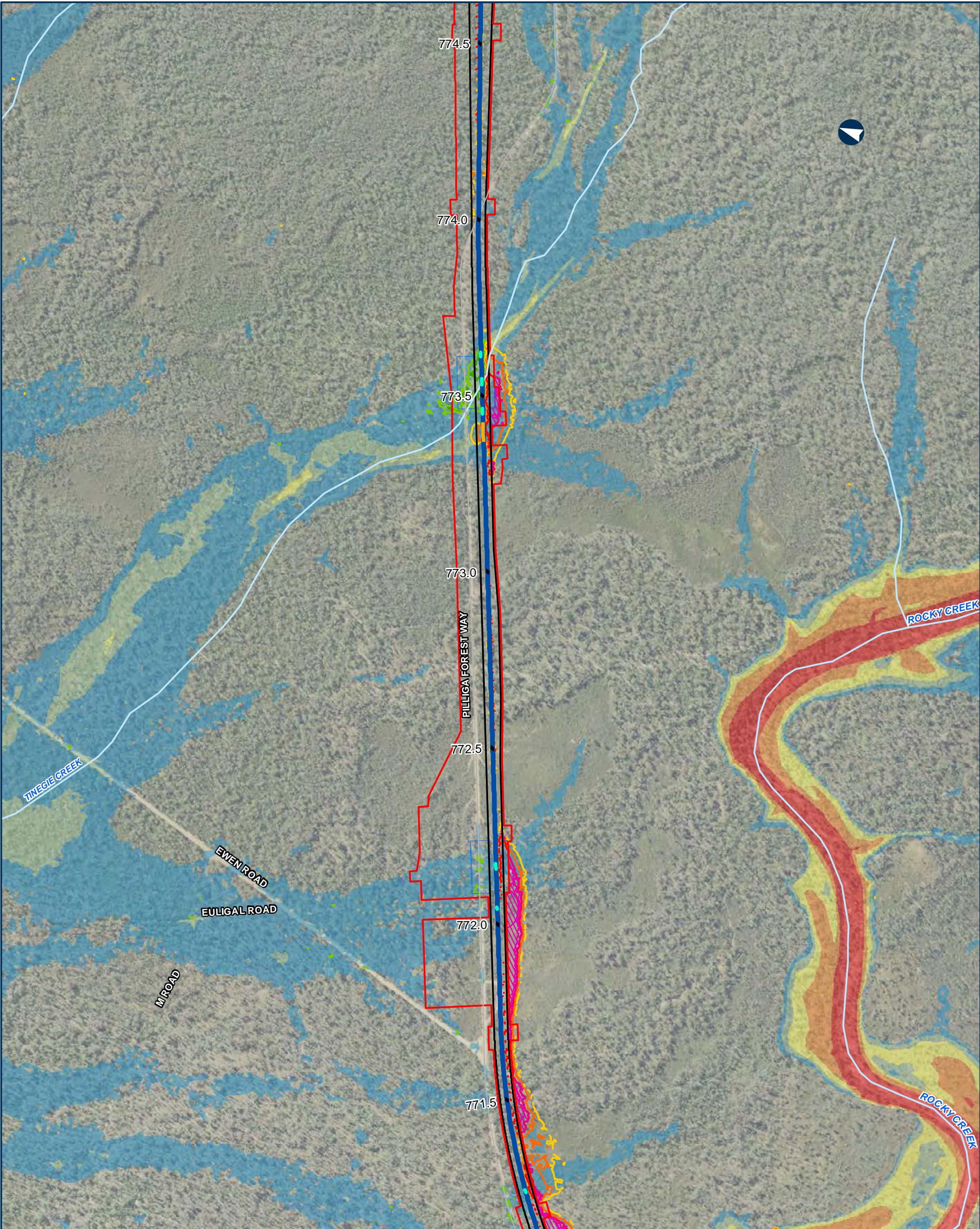
Existing Flood Depth

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



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.75

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 9/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

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

Bridge

Culvert

Alignment

Sub arterial road

Watercourse

The proposal

Drainage Control Area

Rail Corridor

Afflux contour

-300mm

-200mm

100mm

200mm

300mm

Area of departure

Other non-urban >300mm increase

Existing Flood Depth

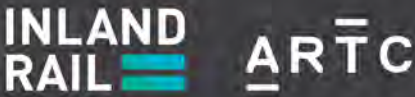
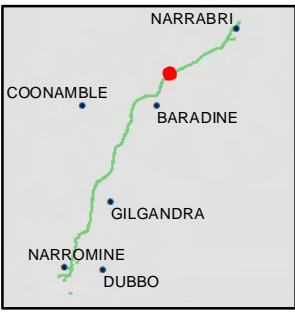
0.0m - 0.25m

0.25m - 0.5m

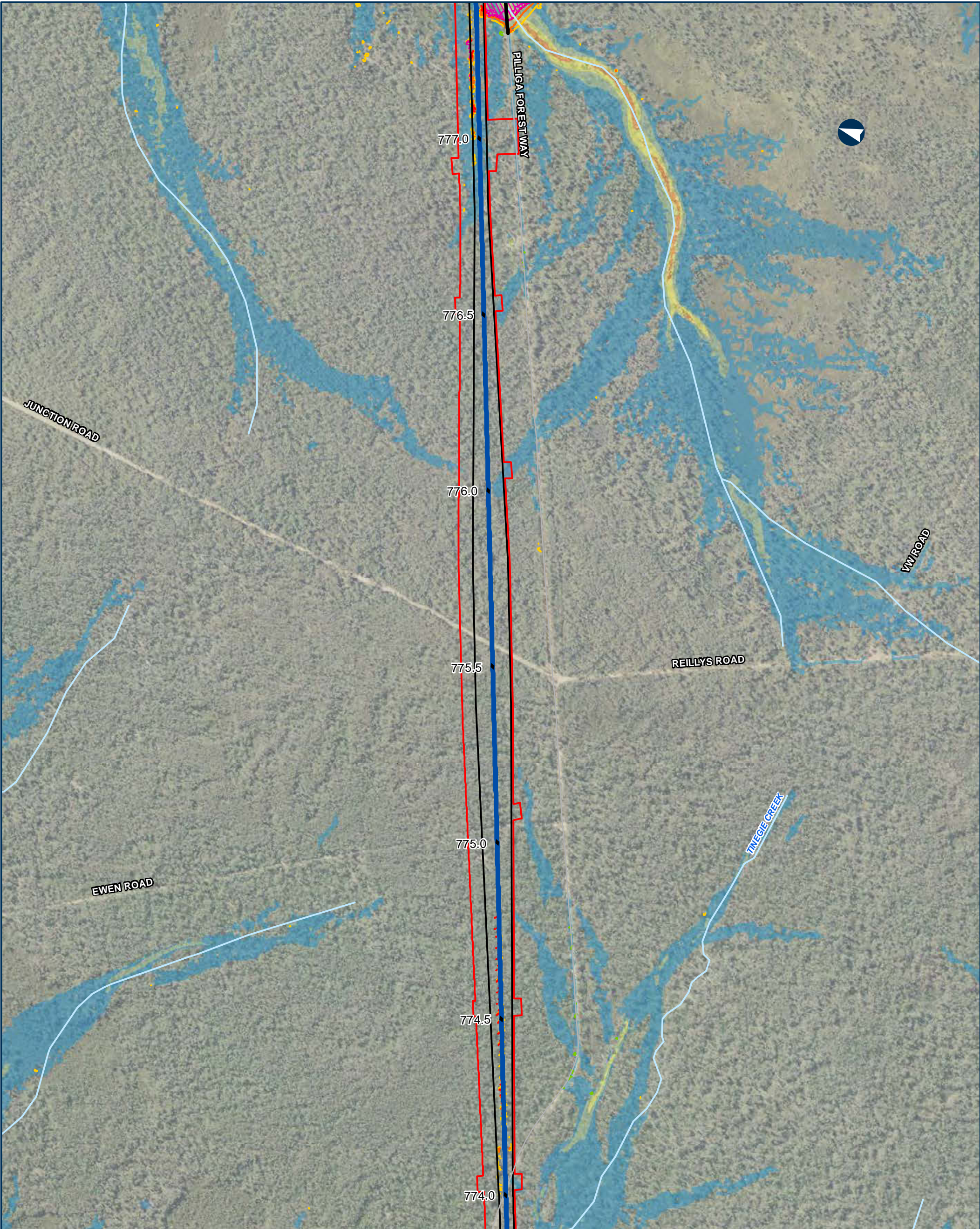
0.5m - 1.0m

1.0m - 2.0m

> 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.76

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 9/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

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

Road QDL departure

Alignment

Sub arterial road

Watercourse

The proposal

Rail Corridor

Afflux contour

-300mm

-200mm

100mm

200mm

300mm

Area of departure

Other non-urban >300mm increase

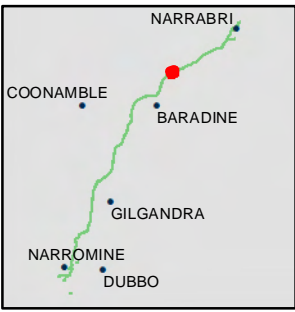
Existing Flood Depth

0.0m - 0.25m

0.25m - 0.5m

0.5m - 1.0m

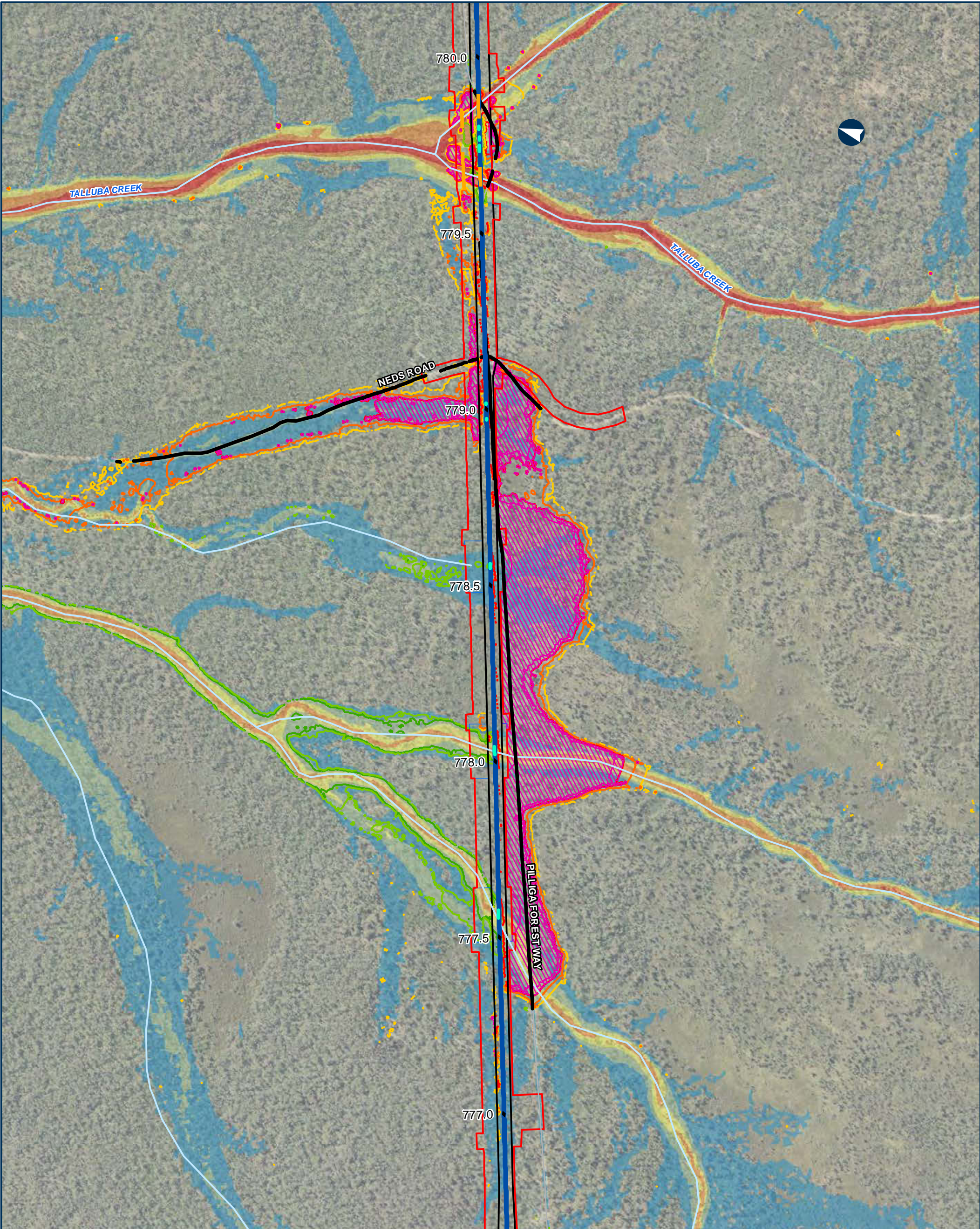
1.0m - 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.77

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 9/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

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

Bridge

Culvert

Road QDL departure

Alignment

Sub arterial road

Watercourse

The proposal

Drainage Control Area

Rail Corridor

Afflux contour

-300mm

-200mm

100mm

200mm

300mm

Area of departure

Other non-urban >300mm increase

Existing Flood Depth

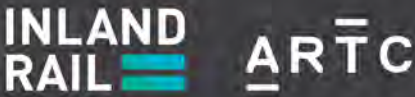
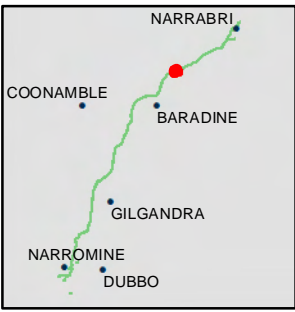
0.0m - 0.25m

0.25m - 0.5m

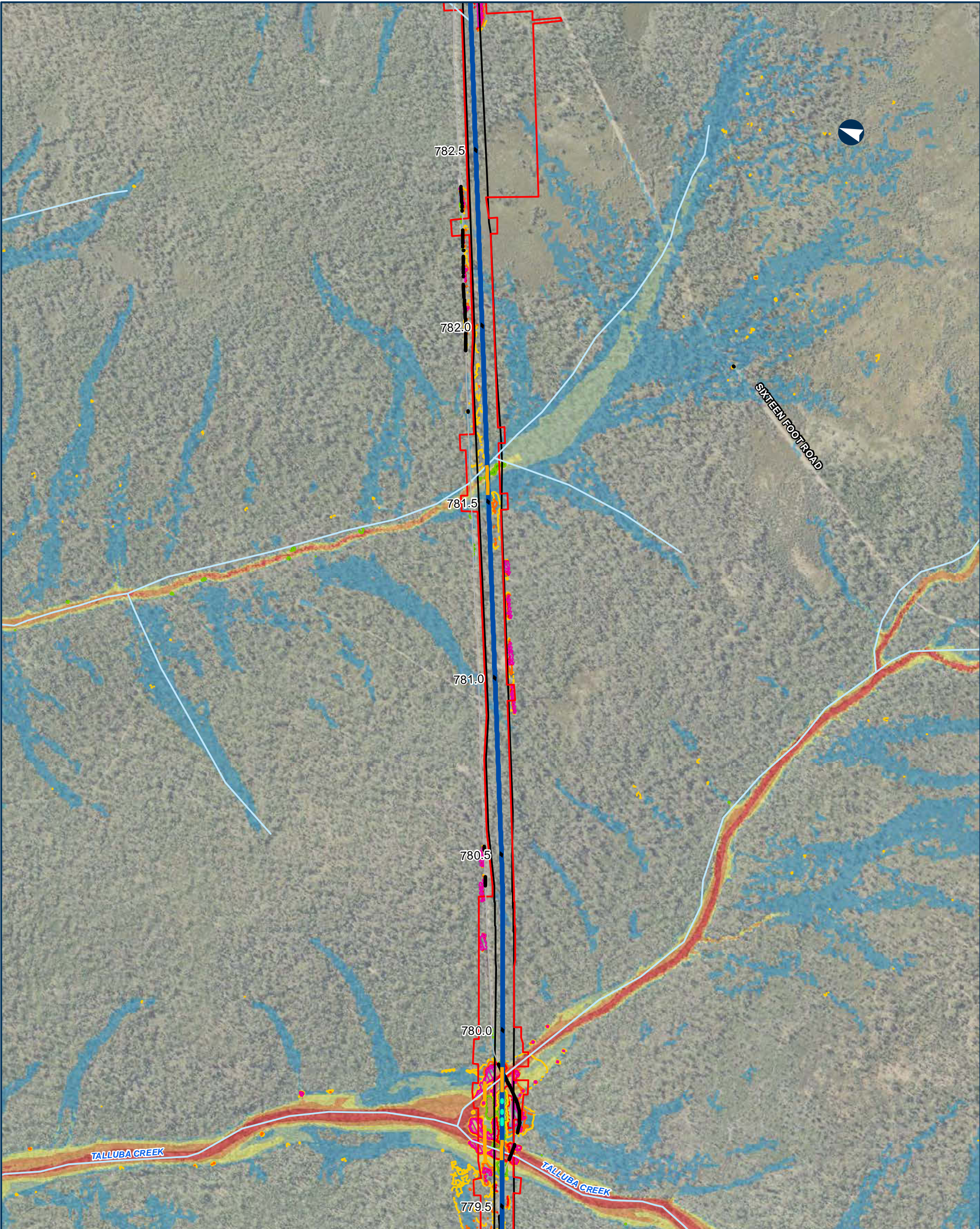
0.5m - 1.0m

1.0m - 2.0m

> 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.78

0 200 400 Metres

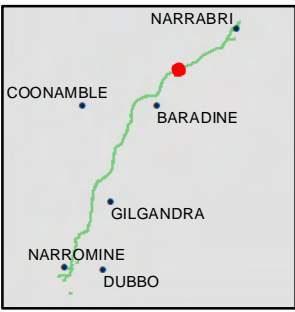
Coordinate System: GDA 1994 MGA Zone 55

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Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

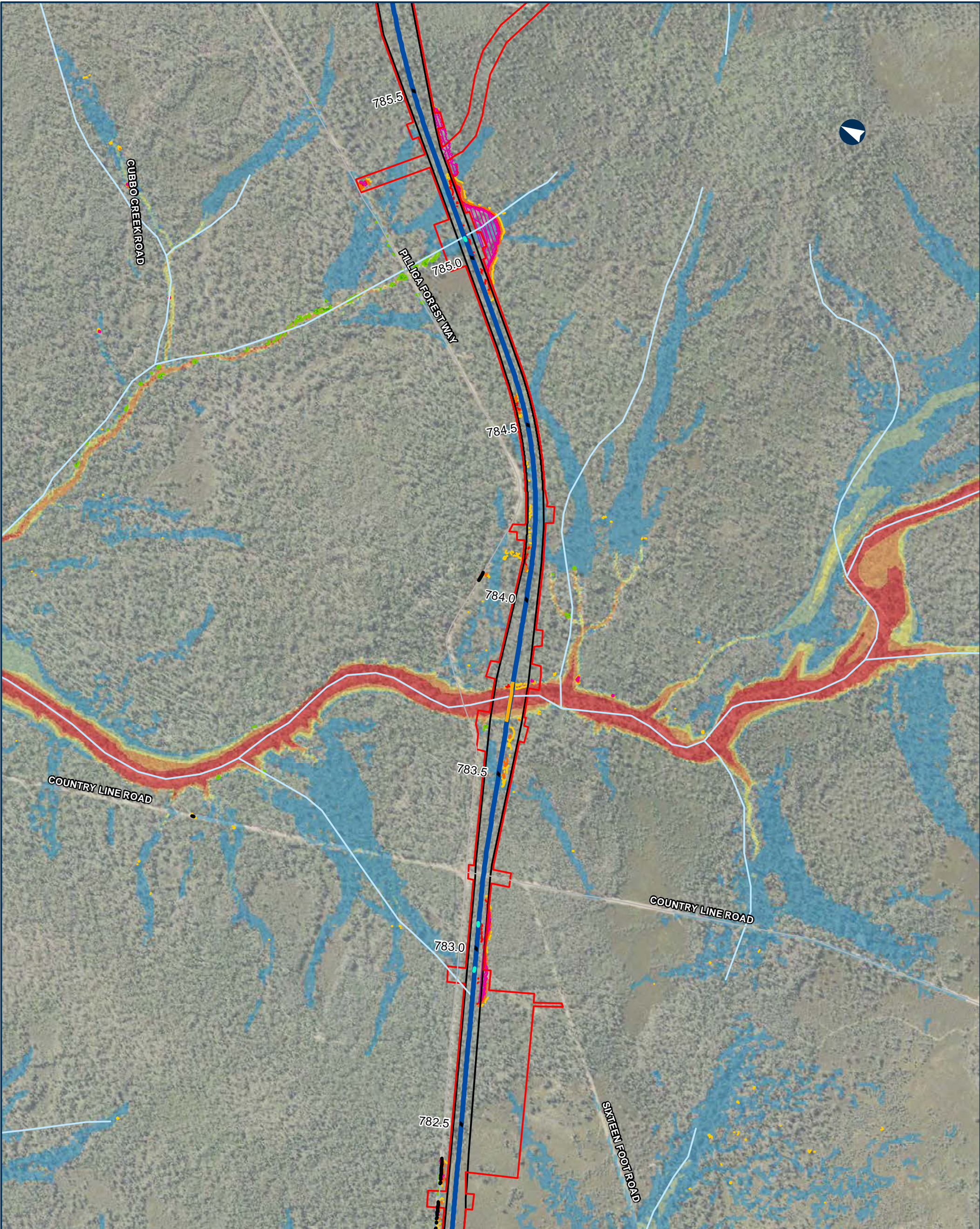
- Bridge
- Culvert
- Road QDL departure
- Alignment
- Sub arterial road
- Watercourse
- The proposal
- Rail Corridor
- Afflux contour
 - 300mm
 - 200mm
 - 100mm
 - 200mm
 - 300mm
- Area of departure
 - Other non-urban >300mm increase

- Existing Flood Depth
- 0.0m - 0.25m
 - 0.25m - 0.5m
 - 0.5m - 1.0m
 - 1.0m - 2.0m
 - > 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.79

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

Legend:

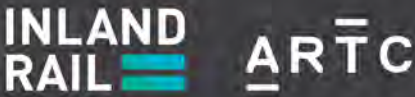
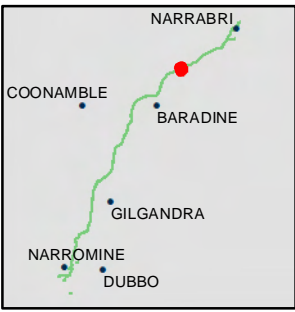
- Bridge
- Culvert
- Road QDL departure
- Alignment
- Sub arterial road
- Watercourse
- The proposal
- Drainage Control Area
- Rail Corridor
- Afflux contour
- Area of departure

Afflux contour values: -300mm, -200mm, 100mm, 200mm, 300mm

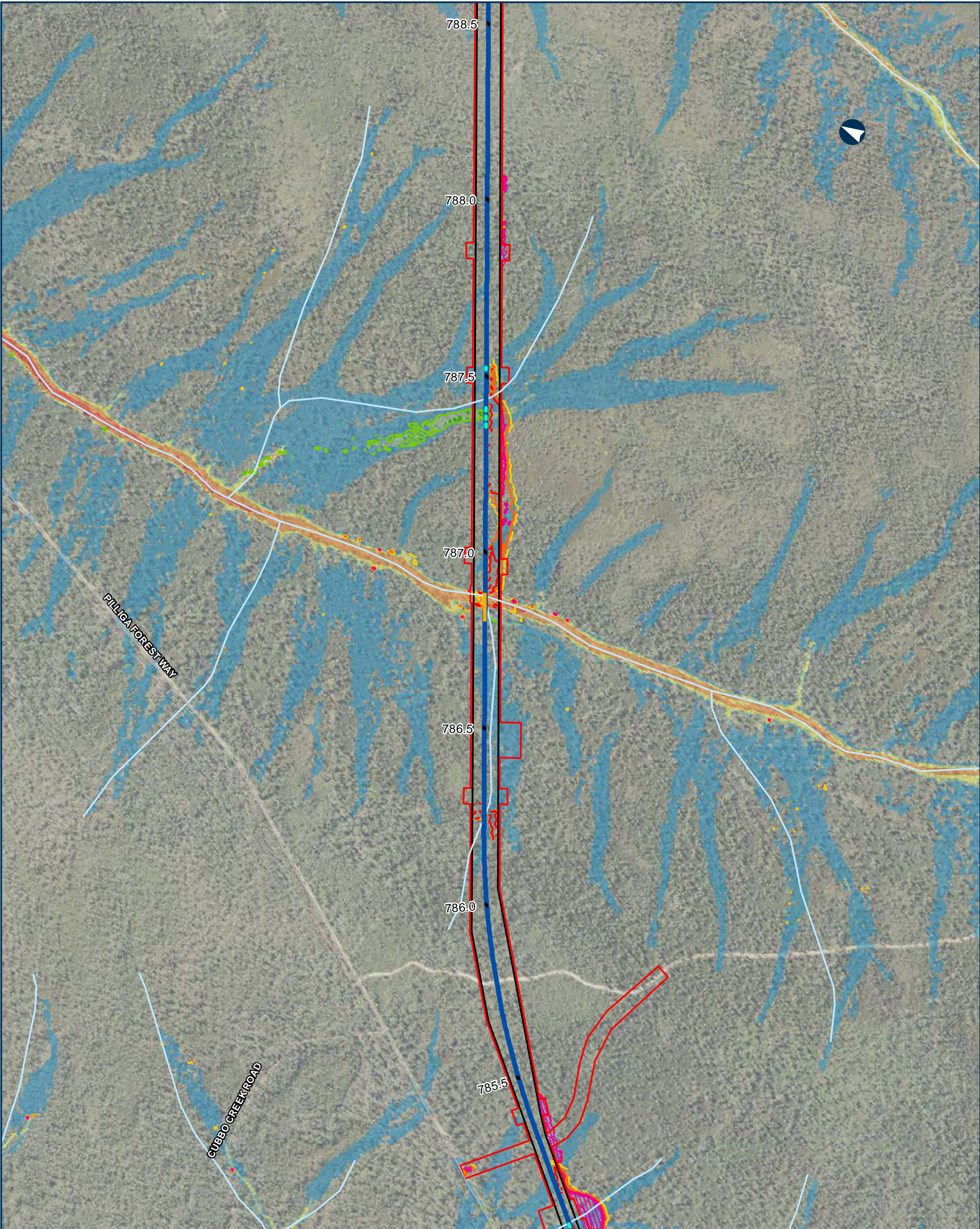
Area of departure: Other non-urban >300mm increase

Existing Flood Depth

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



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.80

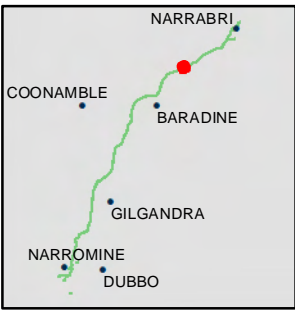
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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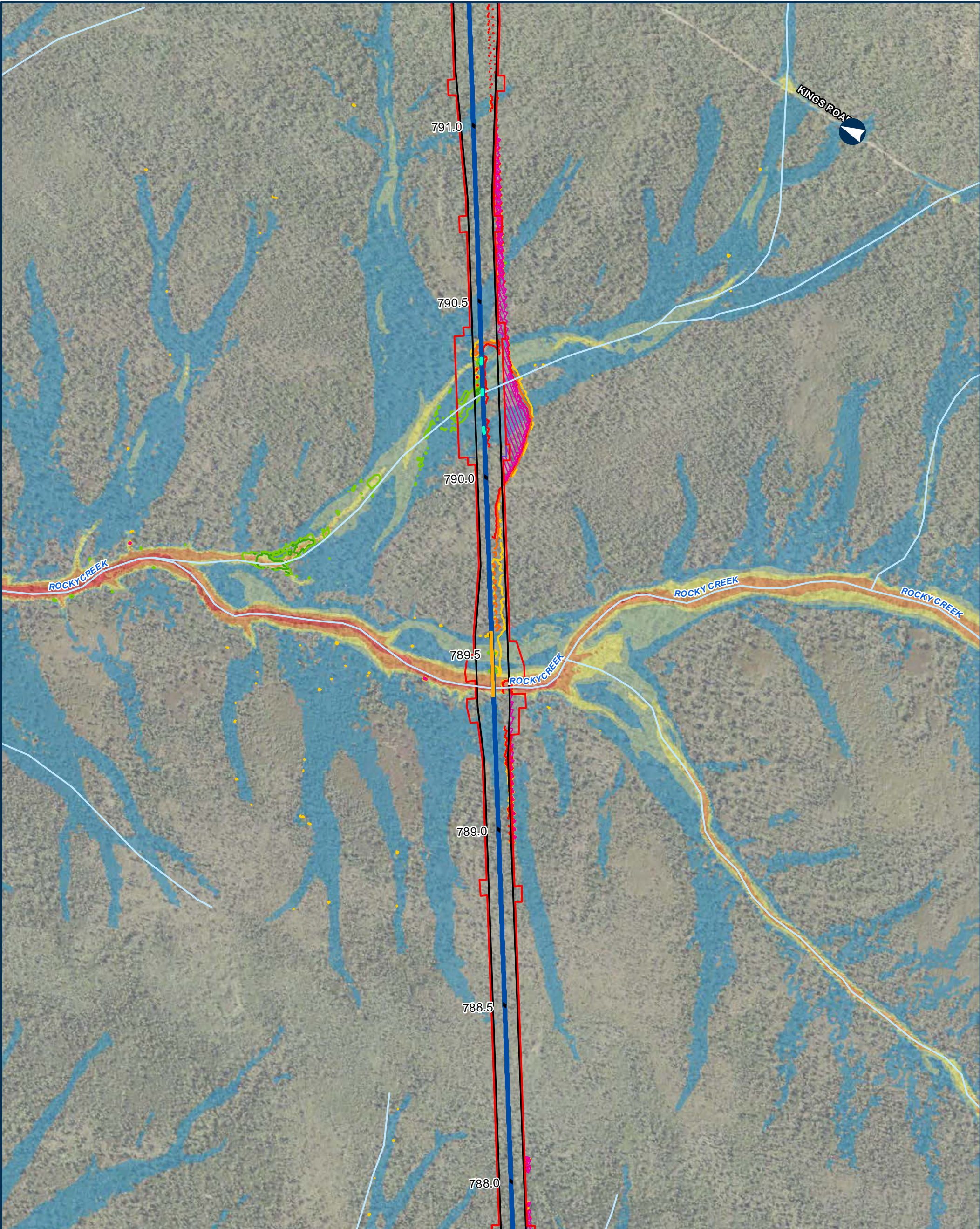
Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Bridge
- Culvert
- Alignment
- Sub arterial road
- Watercourse
- The proposal
- Drainage Control Area
- Rail Corridor
- Afflux contour
 - 300mm
 - 200mm
 - 100mm
 - 200mm
 - 300mm
- Area of departure
 - Other non-urban >300mm increase
- Existing Flood Depth
 - 0.0m - 0.25m
 - 0.25m - 0.5m
 - 0.5m - 1.0m
 - 1.0m - 2.0m
 - > 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.81

0200400

Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 9/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

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

- Bridge

Culvert

Alignment

Watercourse
- The proposal

Drainage Control Area

Rail Corridor

Afflux contour

-300mm

-200mm

100mm

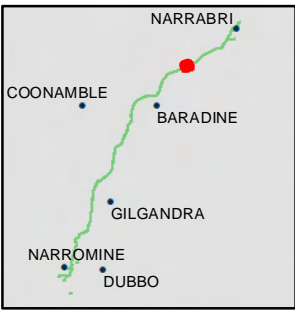
200mm

300mm

Area of departure

Other non-urban >300mm increase

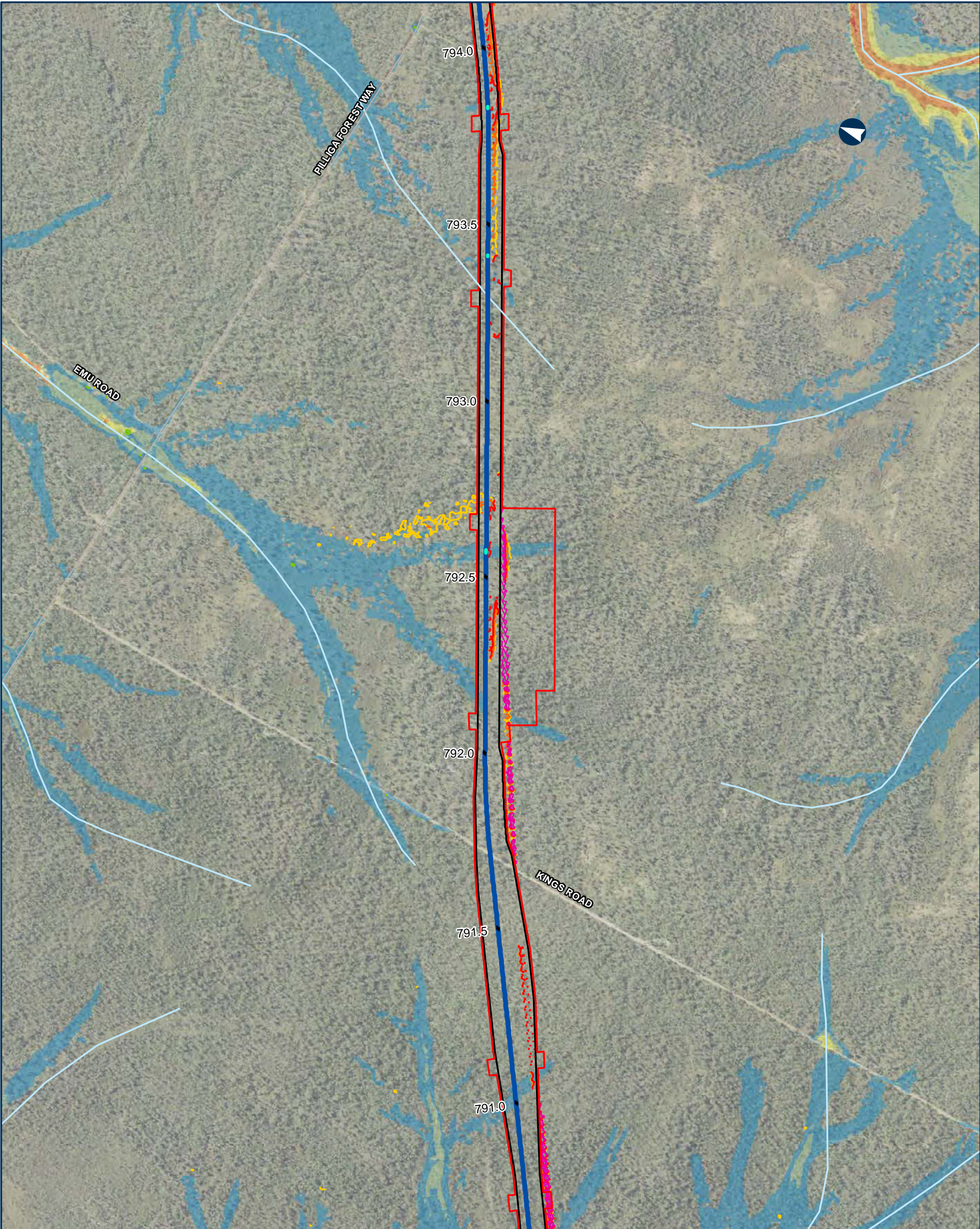
- Existing Flood Depth
- 0.0m - 0.25m
- 0.25m - 0.5m
- 0.5m - 1.0m
- 1.0m - 2.0m
- > 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.82

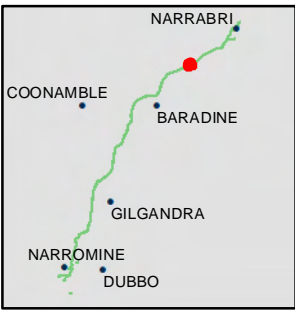
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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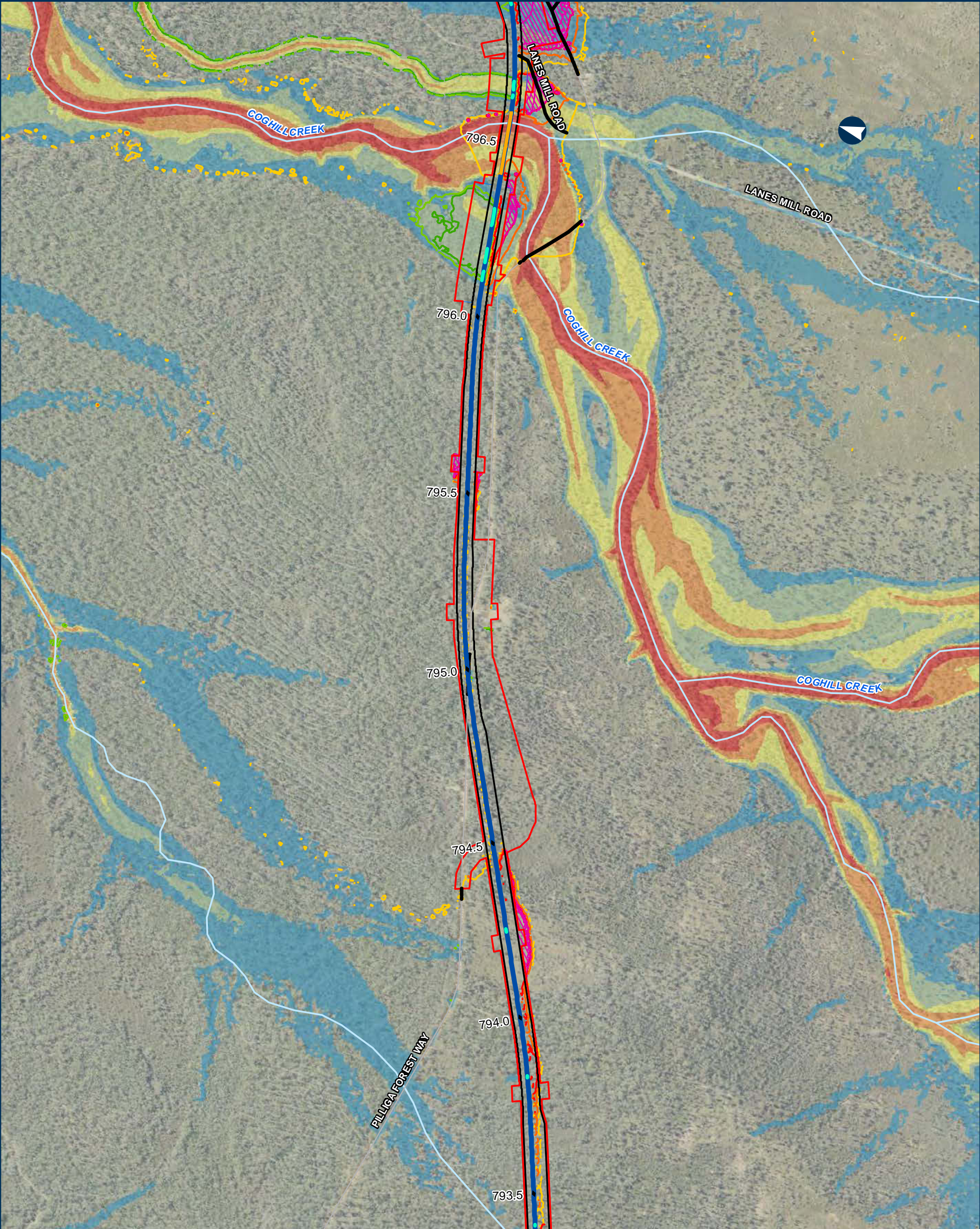
Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Culvert
- Alignment
- Sub arterial road
- Watercourse
- The proposal
- Rail Corridor
- Afflux contour
 - 300mm
 - 200mm
 - 100mm
 - 100mm
 - 200mm
 - 300mm
- Area of departure
 - Other non-urban >300mm increase
- Existing Flood Depth
 - 0.0m - 0.25m
 - 0.25m - 0.5m
 - 0.5m - 1.0m
 - 1.0m - 2.0m
 - > 2.0m



INLAND RAIL ARTC

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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.83

0 200 400 Metres

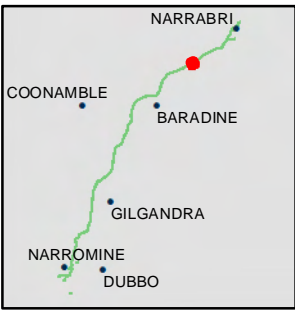
Coordinate System: GDA 1994 MGA Zone 55

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Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

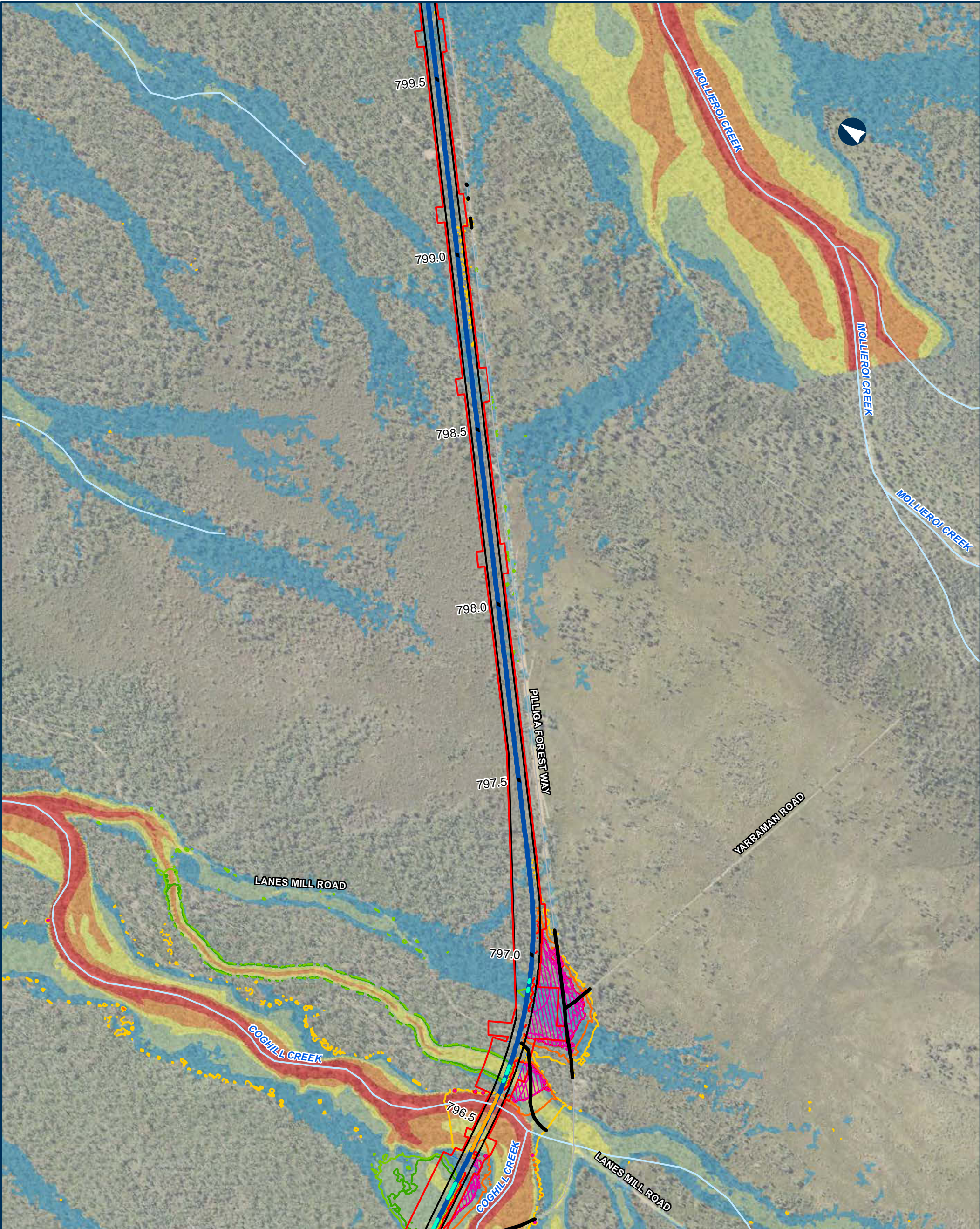
- Bridge
- Culvert
- Road QDL departure
- Alignment
- Sub arterial road
- Watercourse
- The proposal
- Drainage Control Area
- Rail Corridor
- Afflux contour
 - 300mm
 - 200mm
 - 100mm
 - 200mm
 - 300mm
- Area of departure
 - Other non-urban >300mm increase

- Existing Flood Depth
- 0.0m - 0.25m
 - 0.25m - 0.5m
 - 0.5m - 1.0m
 - 1.0m - 2.0m
 - > 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.84

0 200 400 Metres

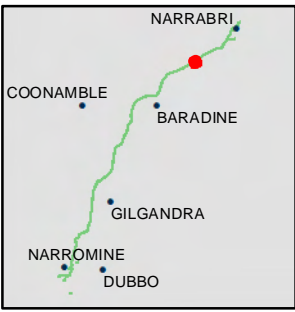
Coordinate System: GDA 1994 MGA Zone 55

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Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

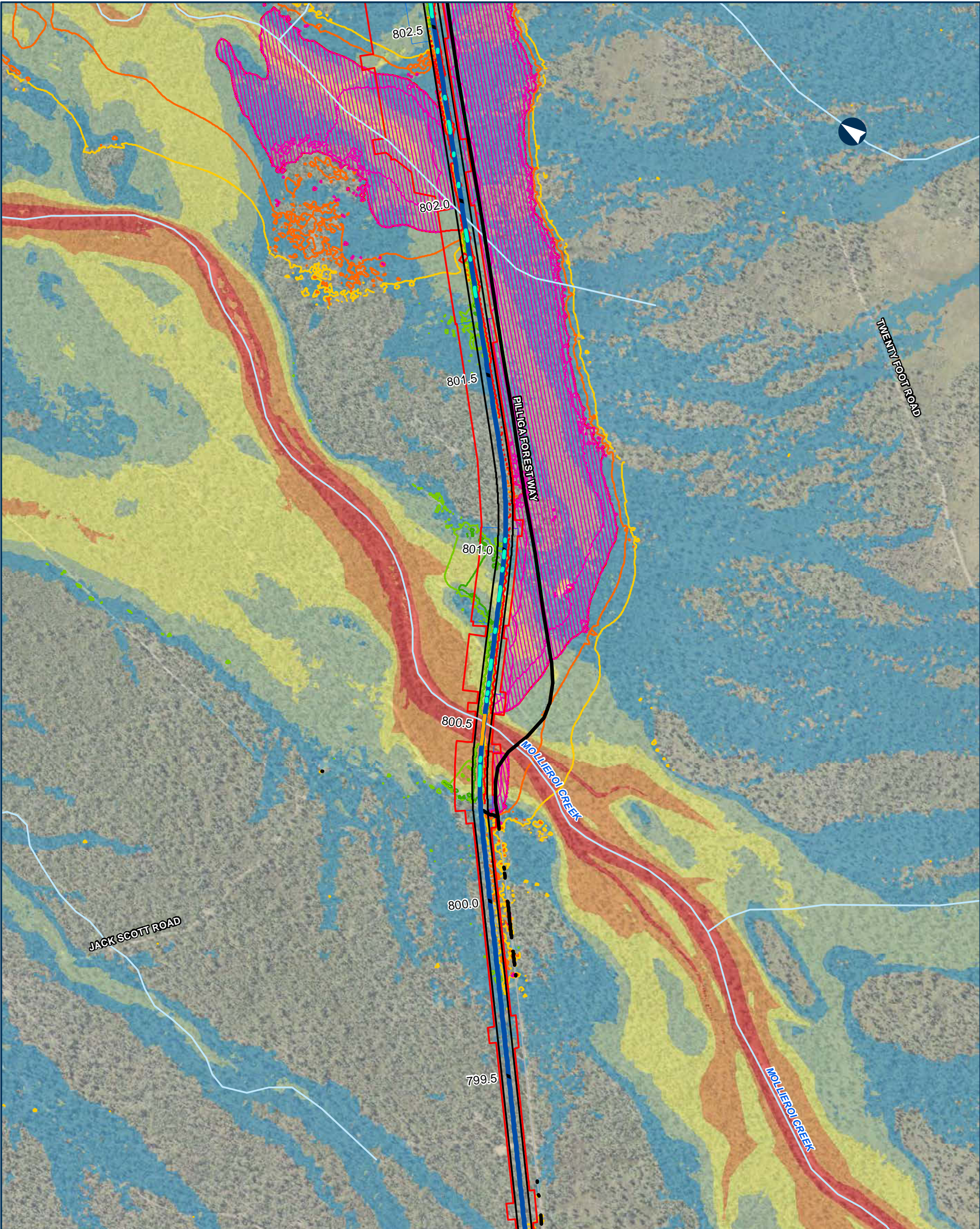
- Bridge
- Culvert
- Road QDL departure
- Alignment
- Sub arterial road
- Watercourse
- The proposal
- Drainage Control Area
- Rail Corridor
- Afflux contour
 - 300mm
 - 200mm
 - 100mm
 - 200mm
 - 300mm
- Area of departure
 - Other non-urban >300mm increase

- Existing Flood Depth
- 0.0m - 0.25m
 - 0.25m - 0.5m
 - 0.5m - 1.0m
 - 1.0m - 2.0m
 - > 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.85

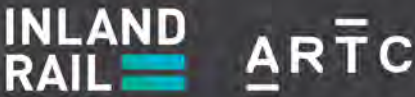
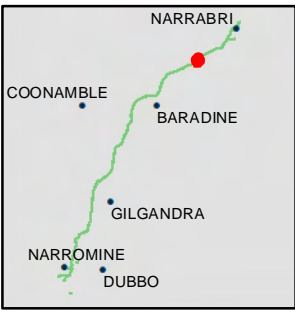
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

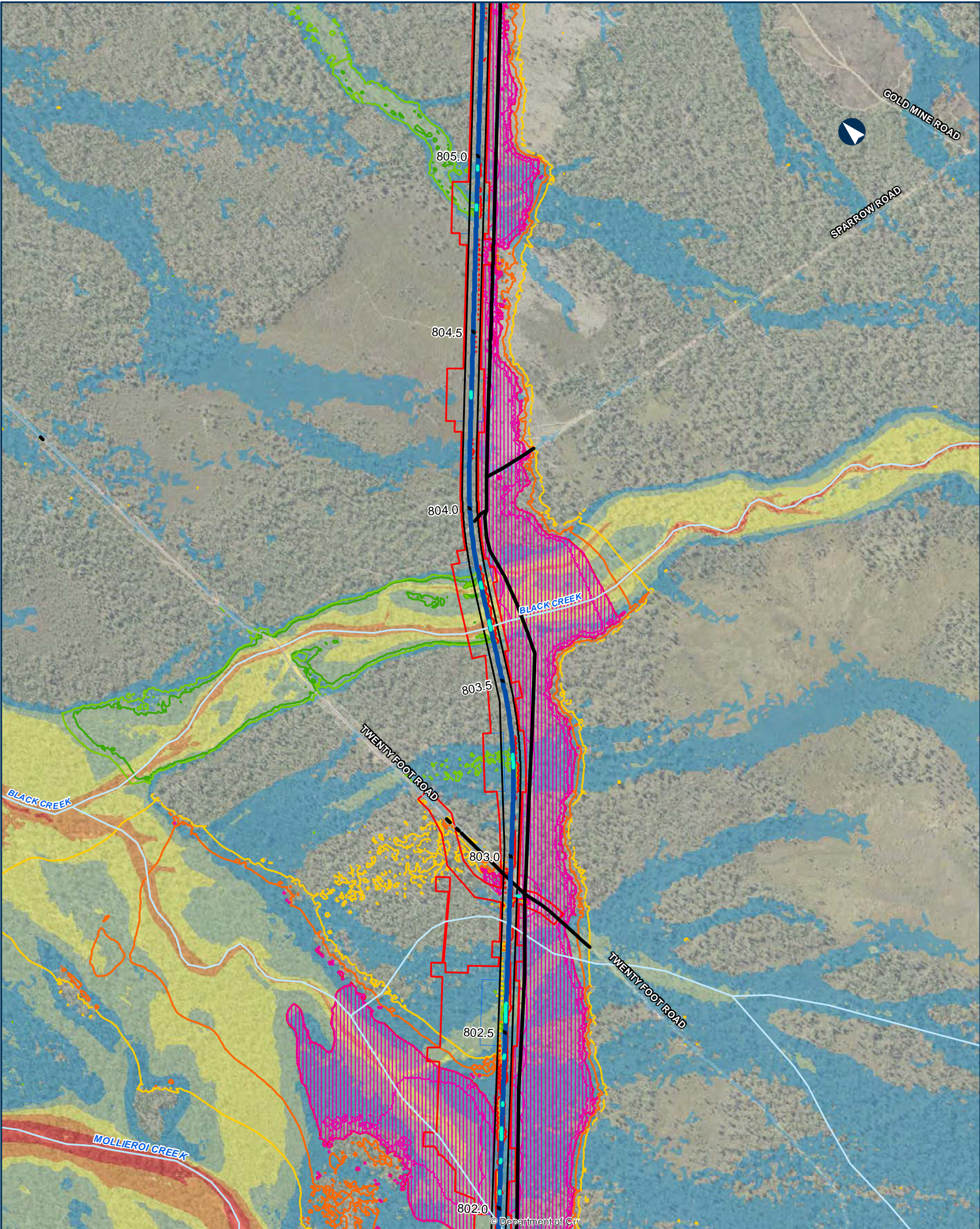
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Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

Bridge	The proposal	Existing Flood Depth
Culvert	Drainage Control Area	0.0m - 0.25m
Road QDL departure	Rail Corridor	0.25m - 0.5m
Alignment	Afflux contour	0.5m - 1.0m
Sub arterial road	-300mm	1.0m - 2.0m
Watercourse	-200mm	> 2.0m
	100mm	
	200mm	
	300mm	
	Area of departure	
	Other non-urban >300mm increase	



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.86

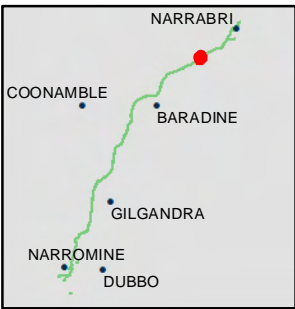
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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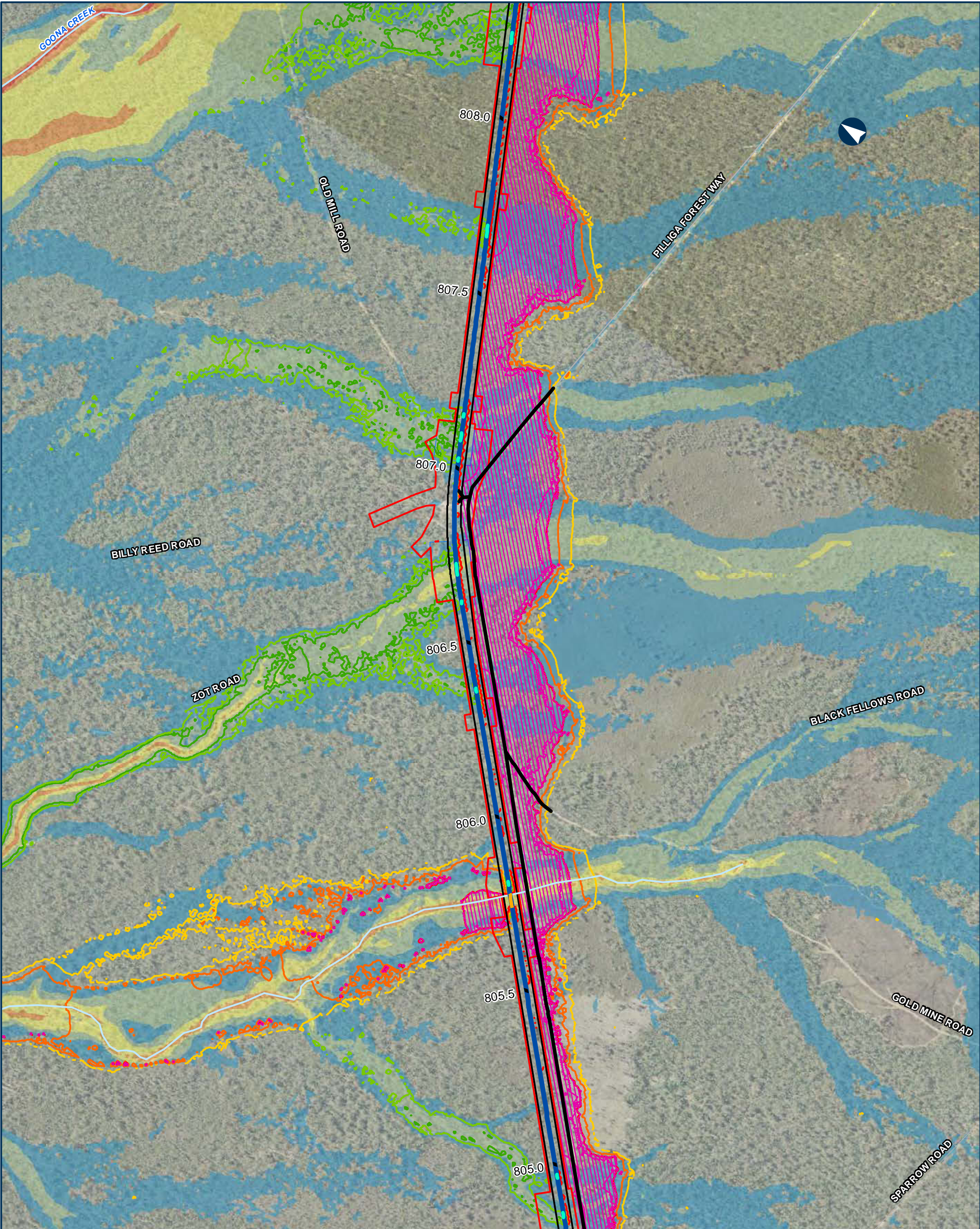
Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Culvert
- Road QDL departure
- Alignment
- Sub arterial road
- Local road
- Watercourse
- The proposal
- Drainage Control Area
- Rail Corridor
- Afflux contour
 - 300mm
 - 200mm
 - 100mm
 - 200mm
 - 300mm
- Area of departure
 - Other non-urban >300mm increase
- Existing Flood Depth
 - 0.0m - 0.25m
 - 0.25m - 0.5m
 - 0.5m - 1.0m
 - 1.0m - 2.0m
 - > 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.87

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 9/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

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

Bridge

Culvert

Road QDL departure

Alignment

Sub arterial road

Local road

Watercourse

The proposal

Drainage Control Area

Rail Corridor

Afflux contour

-300mm

-200mm

100mm

200mm

300mm

Area of departure

Other non-urban >300mm increase

Existing Flood Depth

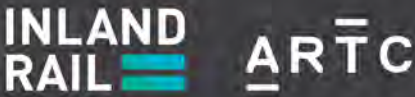
0.0m - 0.25m

0.25m - 0.5m

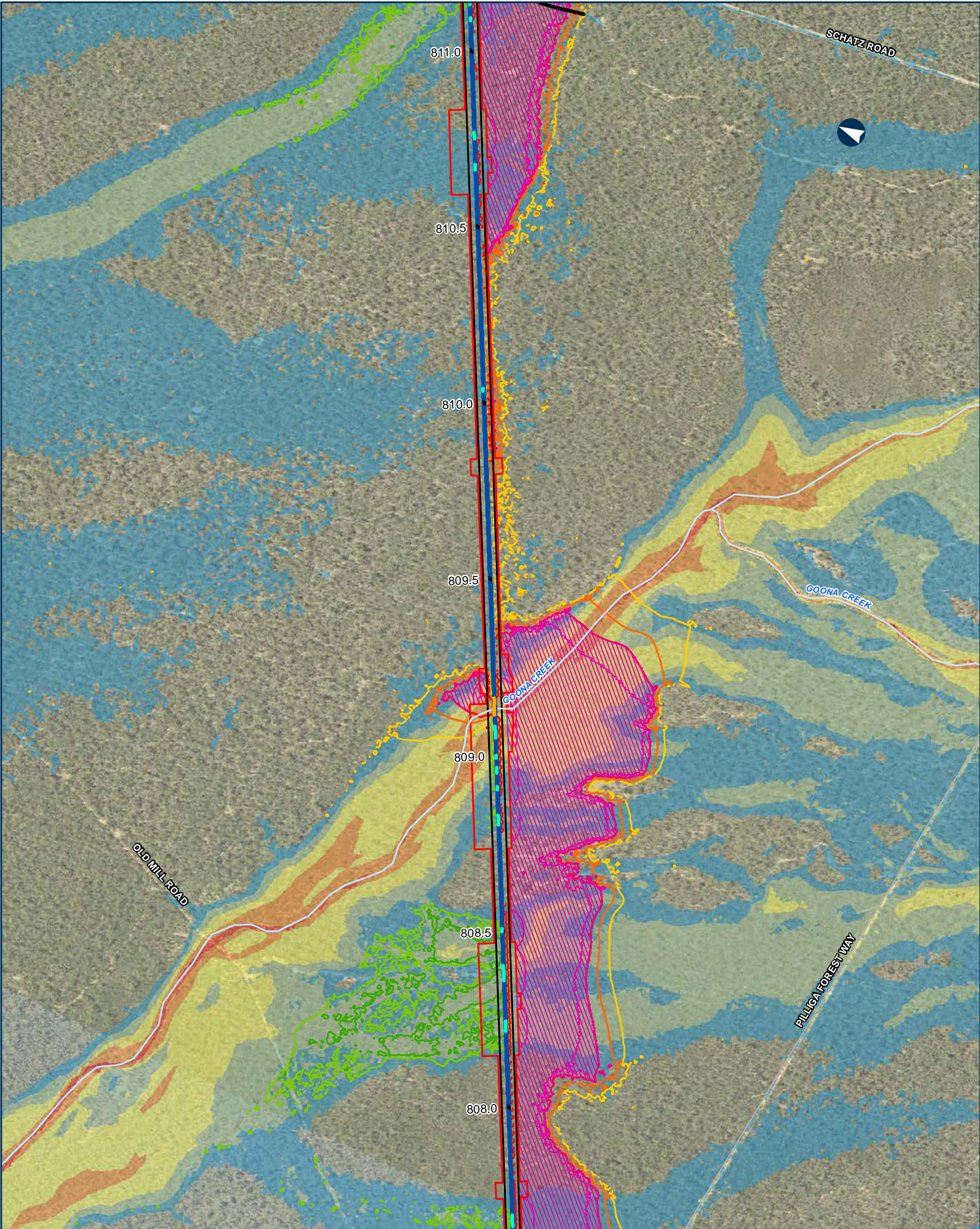
0.5m - 1.0m

1.0m - 2.0m

> 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.88

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Bridge

Culvert

Road QDL departure

Alignment

Sub arterial road

Local road

Watercourse
- The proposal

Drainage Control Area

Rail Corridor

Afflux contour

-300mm

-200mm

100mm

200mm

300mm

Area of departure

Other non-urban >300mm increase

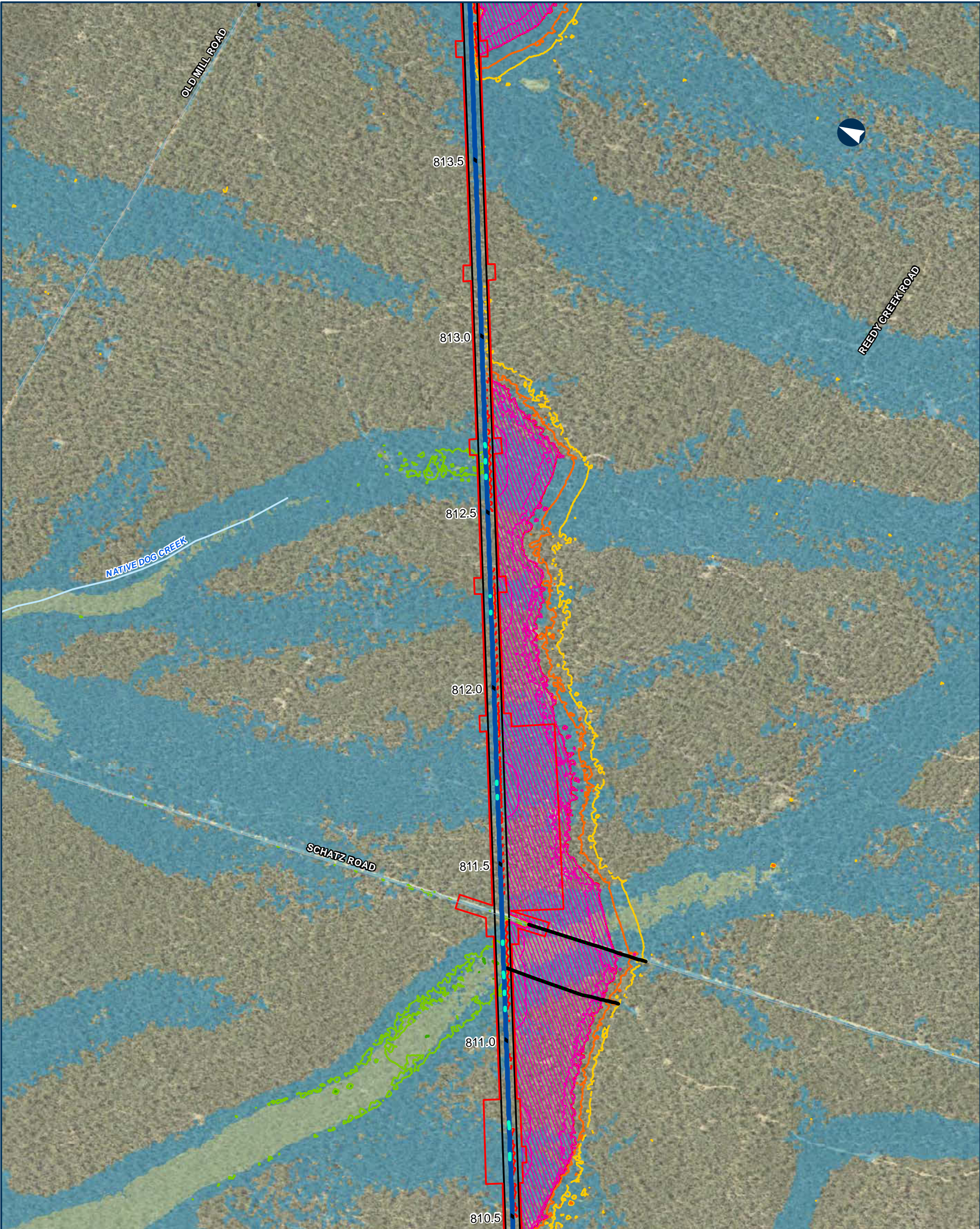
- Existing Flood Depth
- 0.0m - 0.25m
- 0.25m - 0.5m
- 0.5m - 1.0m
- 1.0m - 2.0m
- > 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.89

0200400

Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 9/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

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

- Culvert

Road QDL departure

Alignment

Local road

Watercourse
- The proposal

Drainage Control Area

Rail Corridor

Afflux contour

Area of departure
- Existing Flood Depth

0.0m - 0.25m

0.25m - 0.5m

-300mm

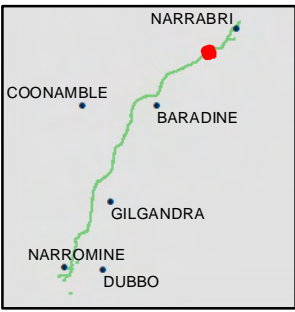
-200mm

100mm

200mm

300mm

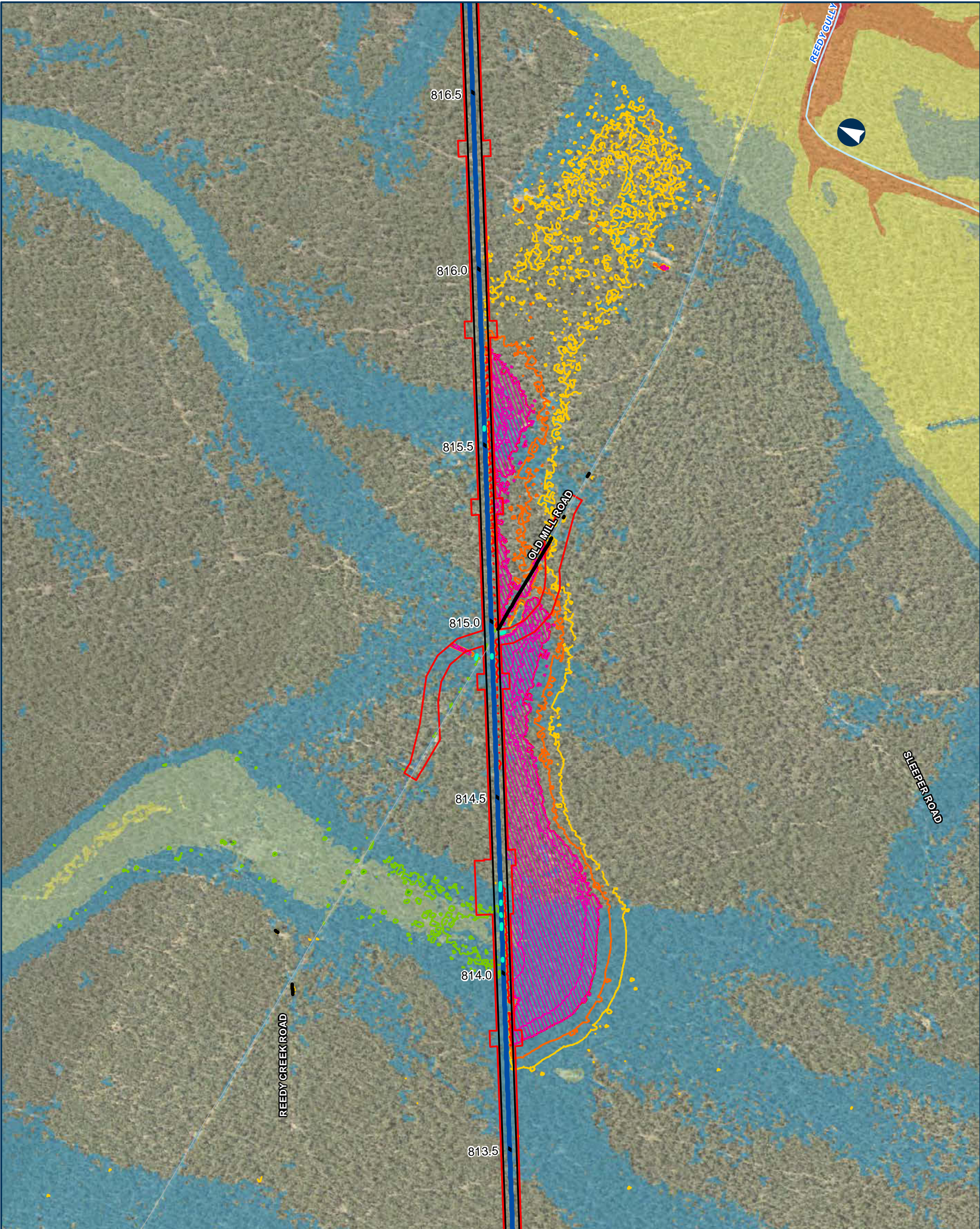
Other non-urban >300mm increase



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.90

0 200 400 Metres

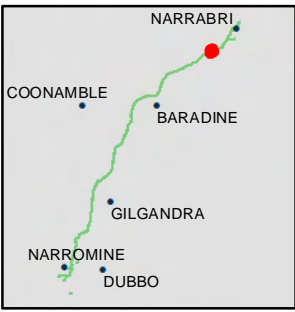
Coordinate System: GDA 1994 MGA Zone 55

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

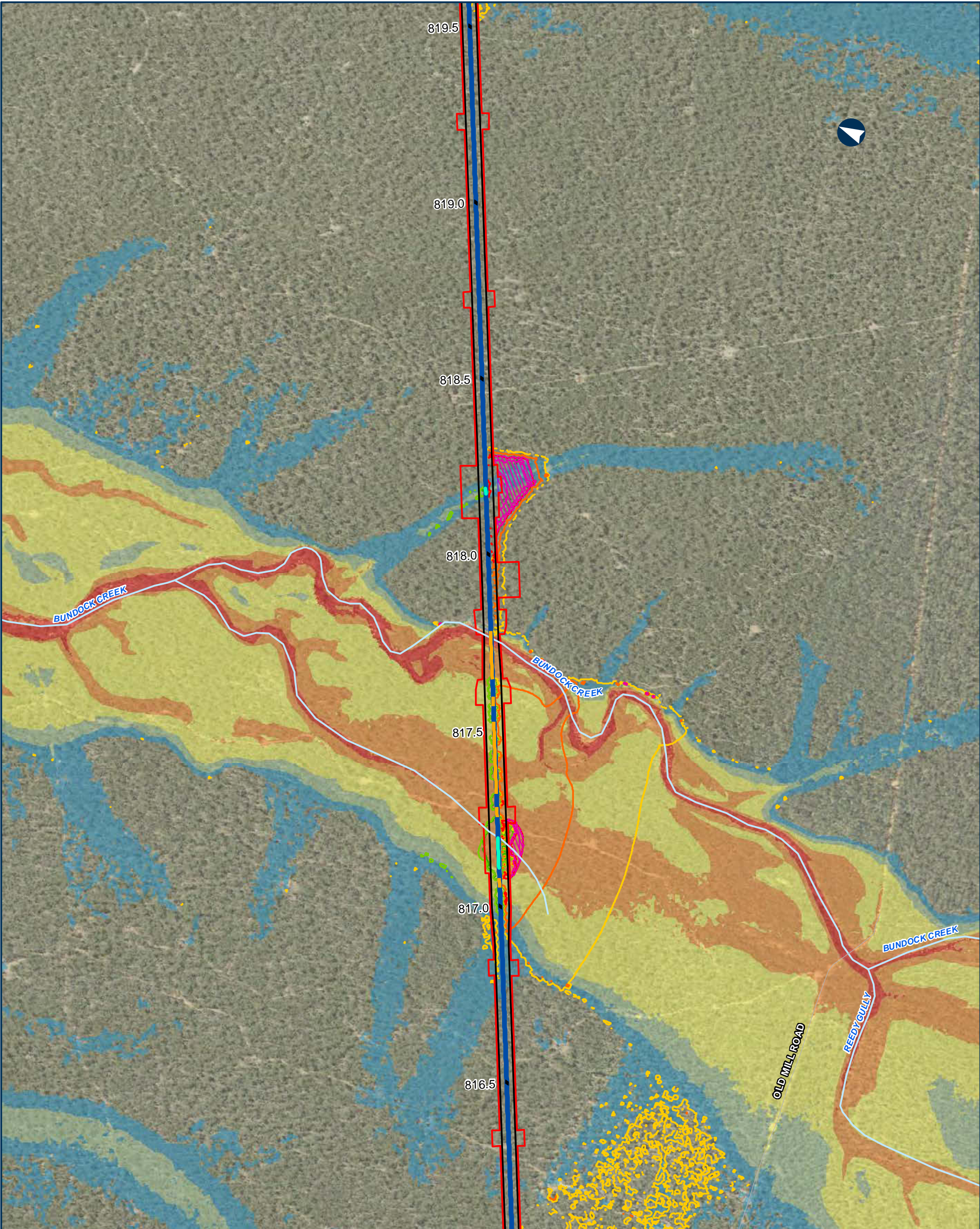
- Culvert
- Road QDL departure
- Alignment
- Local road
- Watercourse
- The proposal
- Drainage Control Area
- Rail Corridor
- Afflux contour
 - 300mm
 - 200mm
 - 100mm
 - 200mm
 - 300mm
- Area of departure
 - Other non-urban >300mm increase

- Existing Flood Depth
- 0.0m - 0.25m
 - 0.25m - 0.5m
 - 0.5m - 1.0m
 - 1.0m - 2.0m
 - > 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.91

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 9/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

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

Bridge

Culvert

Alignment

Local road

Watercourse

The proposal

Drainage Control Area

Rail Corridor

Afflux contour

-300mm

-200mm

100mm

200mm

300mm

Area of departure

Other non-urban >300mm increase

Existing Flood Depth

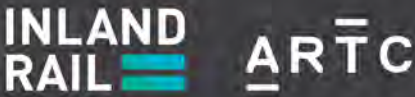
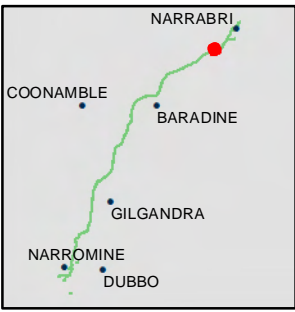
0.0m - 0.25m

0.25m - 0.5m

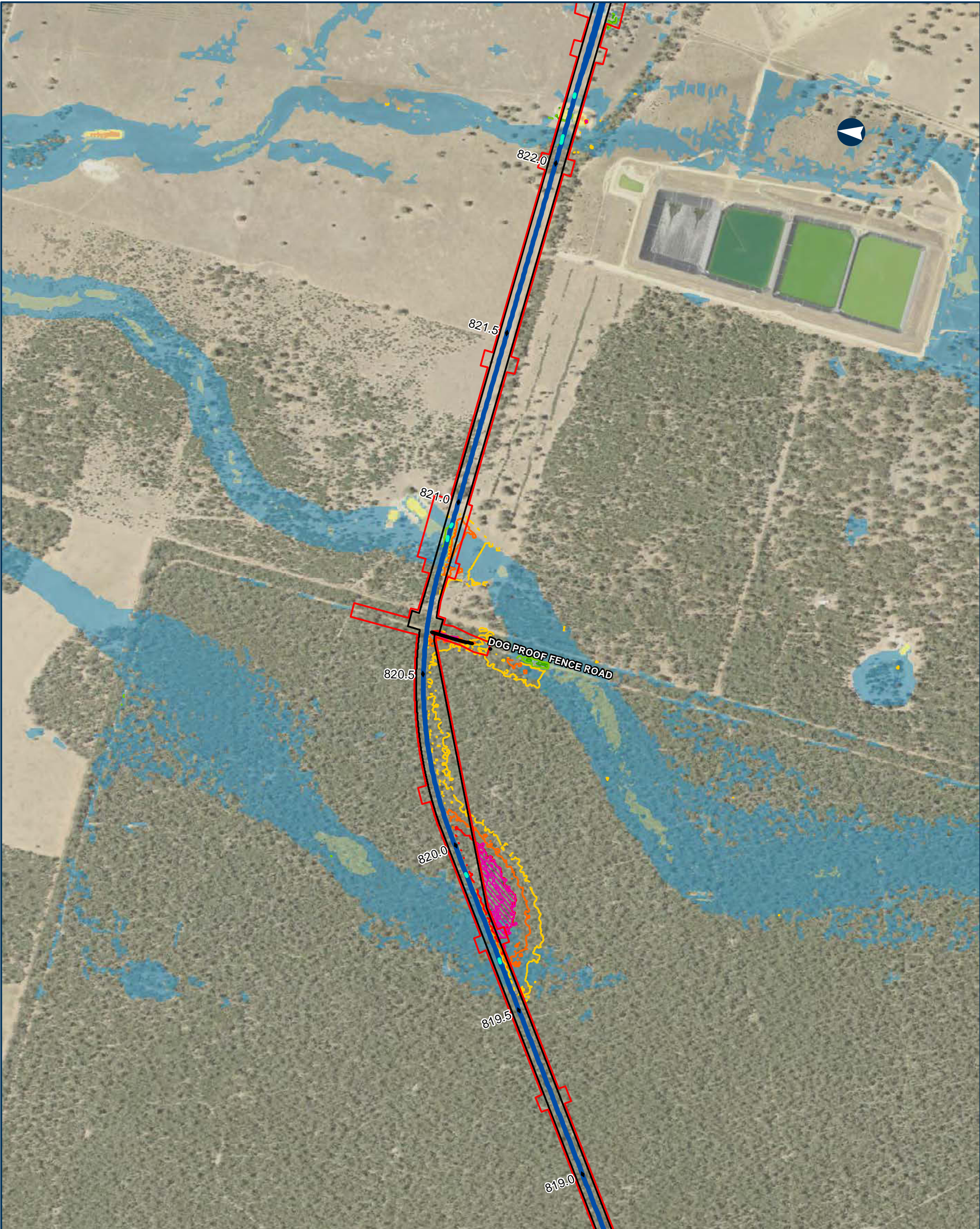
0.5m - 1.0m

1.0m - 2.0m

> 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.92

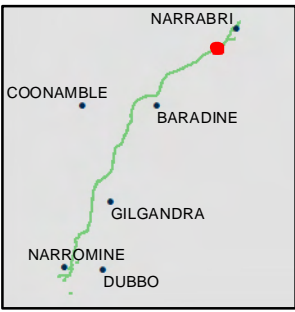
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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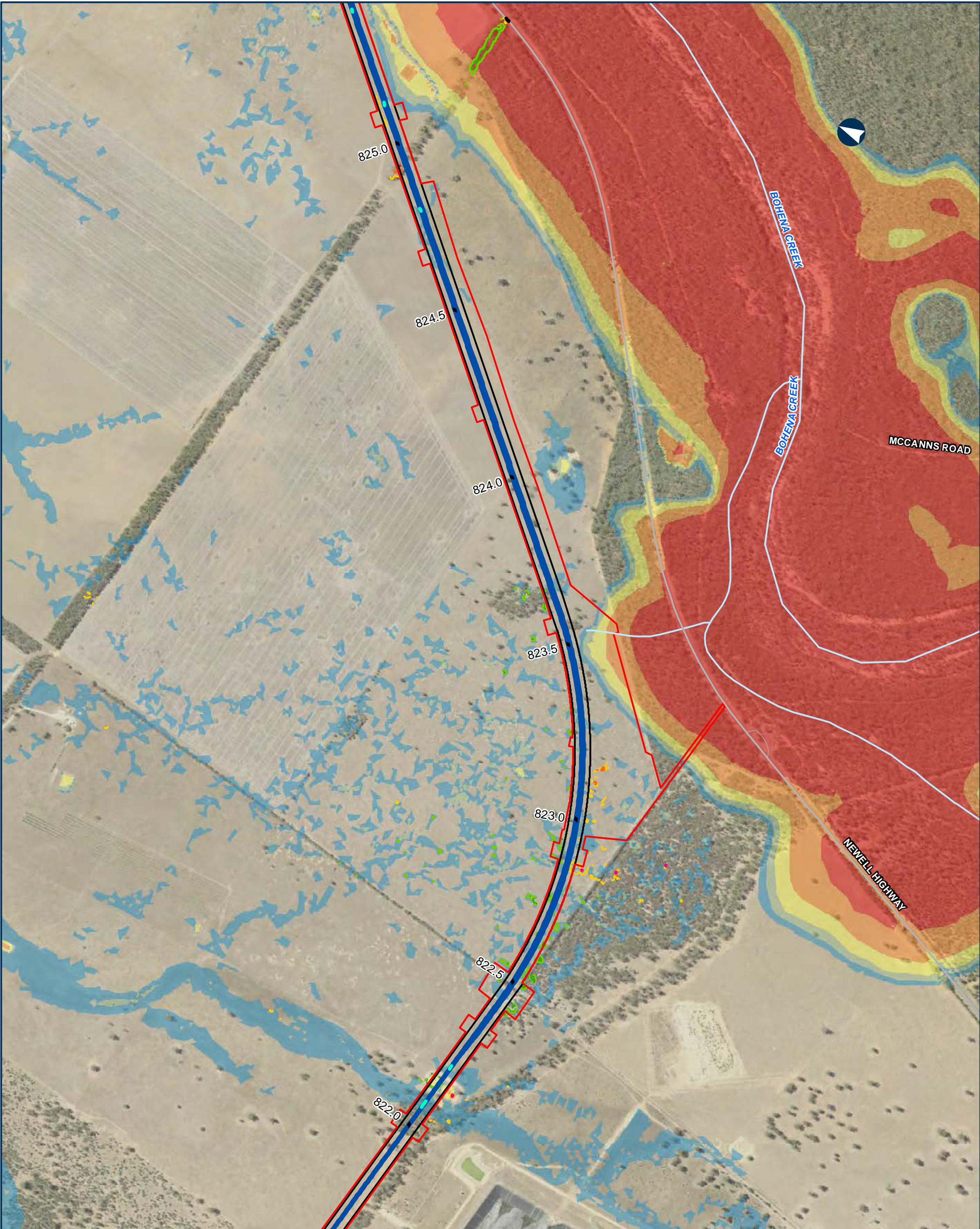
Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Culvert
- Road QDL departure
- Alignment
- Watercourse
- The proposal
- Drainage Control Area
- Rail Corridor
- Afflux contour
 - 300mm
 - 200mm
 - 100mm
 - 200mm
 - 300mm
- Area of departure
 - Other non-urban >300mm increase
- Existing Flood Depth
 - 0.0m - 0.25m
 - 0.25m - 0.5m
 - 0.5m - 1.0m
 - 1.0m - 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.93

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

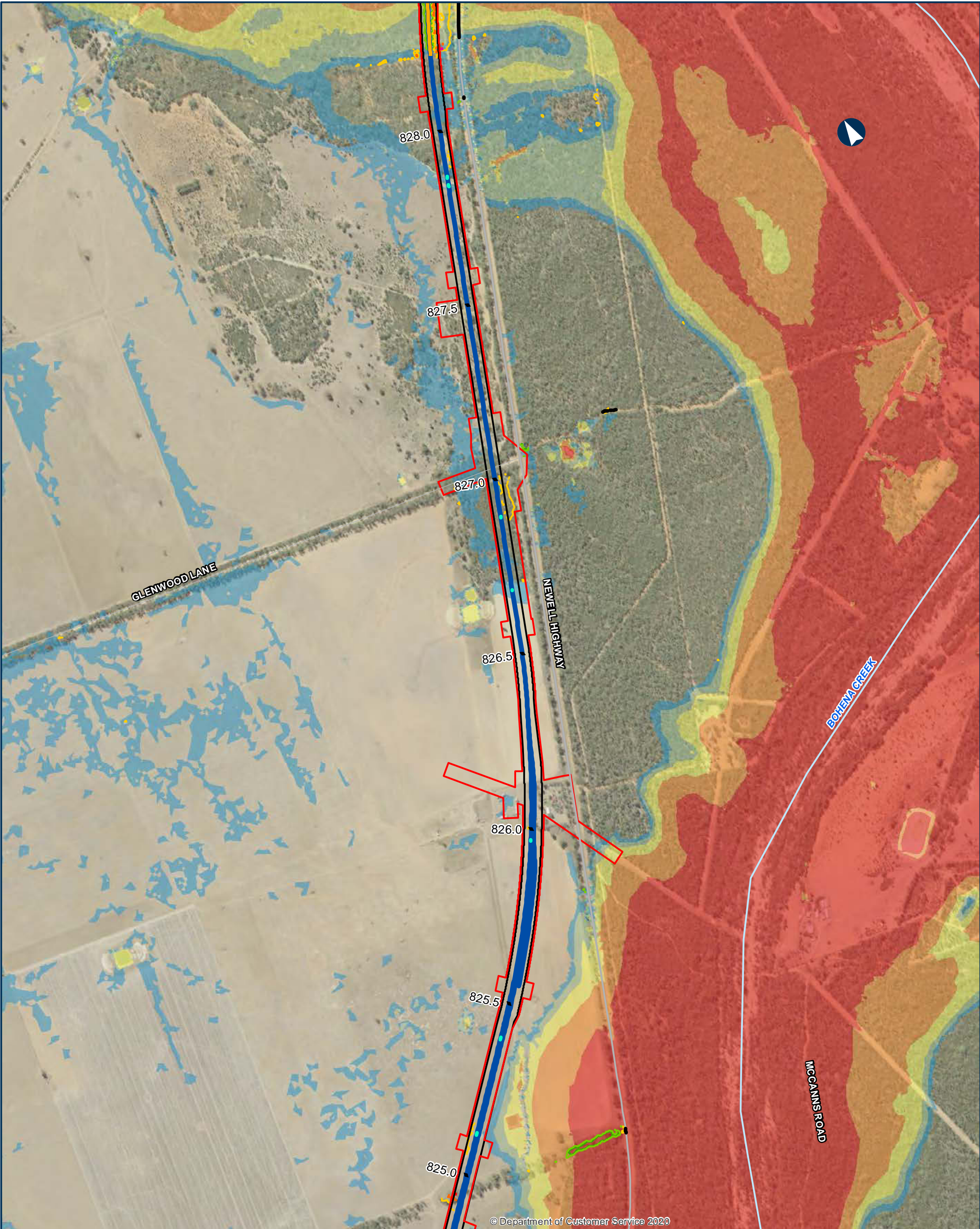
- Culvert
- Road QDL departure
- Alignment
- Primary road
- Local road
- Watercourse
- The proposal
- Rail Corridor
- Afflux contour
- 300mm
- 200mm
- 100mm
- 200mm
- 300mm
- Area of departure
- Other non-urban >300mm increase

- Existing Flood Depth
- 0.0m - 0.25m
 - 0.25m - 0.5m
 - 0.5m - 1.0m
 - 1.0m - 2.0m
 - > 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.94

0200400

Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 9/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

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

Bridge

Culvert

Road QDL departure

Alignment

Primary road

Local road

Watercourse

The proposal

Rail Corridor

Afflux contour

-300mm

-200mm

100mm

200mm

300mm

Area of departure

Other non-urban >300mm increase

Existing Flood Depth

0.0m - 0.25m

0.25m - 0.5m

0.5m - 1.0m

1.0m - 2.0m

> 2.0m

NARRABRI

COONAMBLE

BARADINE

GILGANDRA

NARROMINE

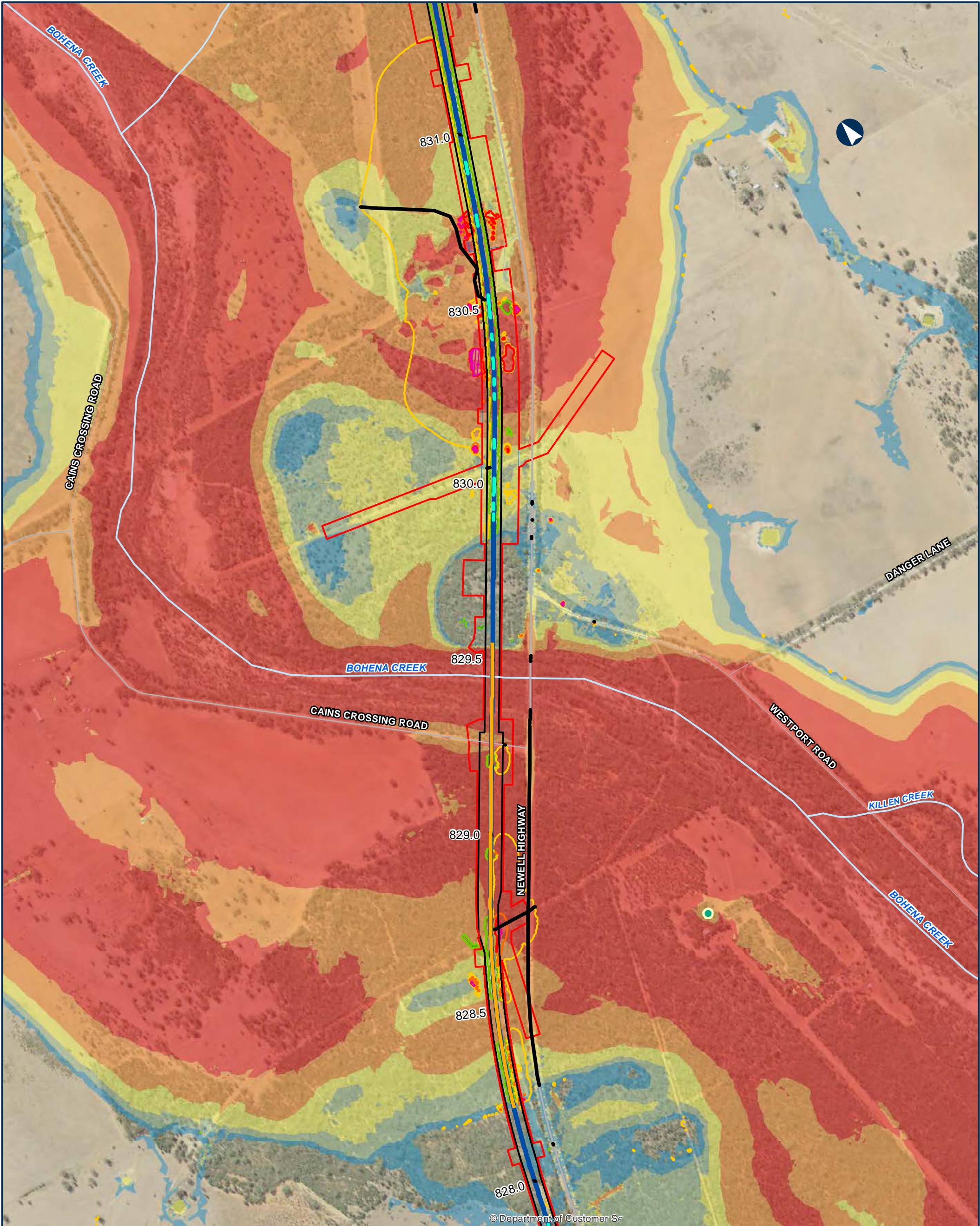
DUBBO

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N:\AU\Newcastle\Projects\22\19593\GIS\GIS_2500_N2N_v2\Maps\Deliverables_SPIR\EIS\Flooding_Hydrology\Appendices\2500_EISFWPAPP088_QDL_Afflux_1pcBlockage_revD.mxd



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.95

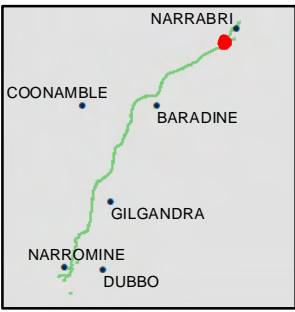
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Coordinate System: GDA 1994 MGA Zone 55

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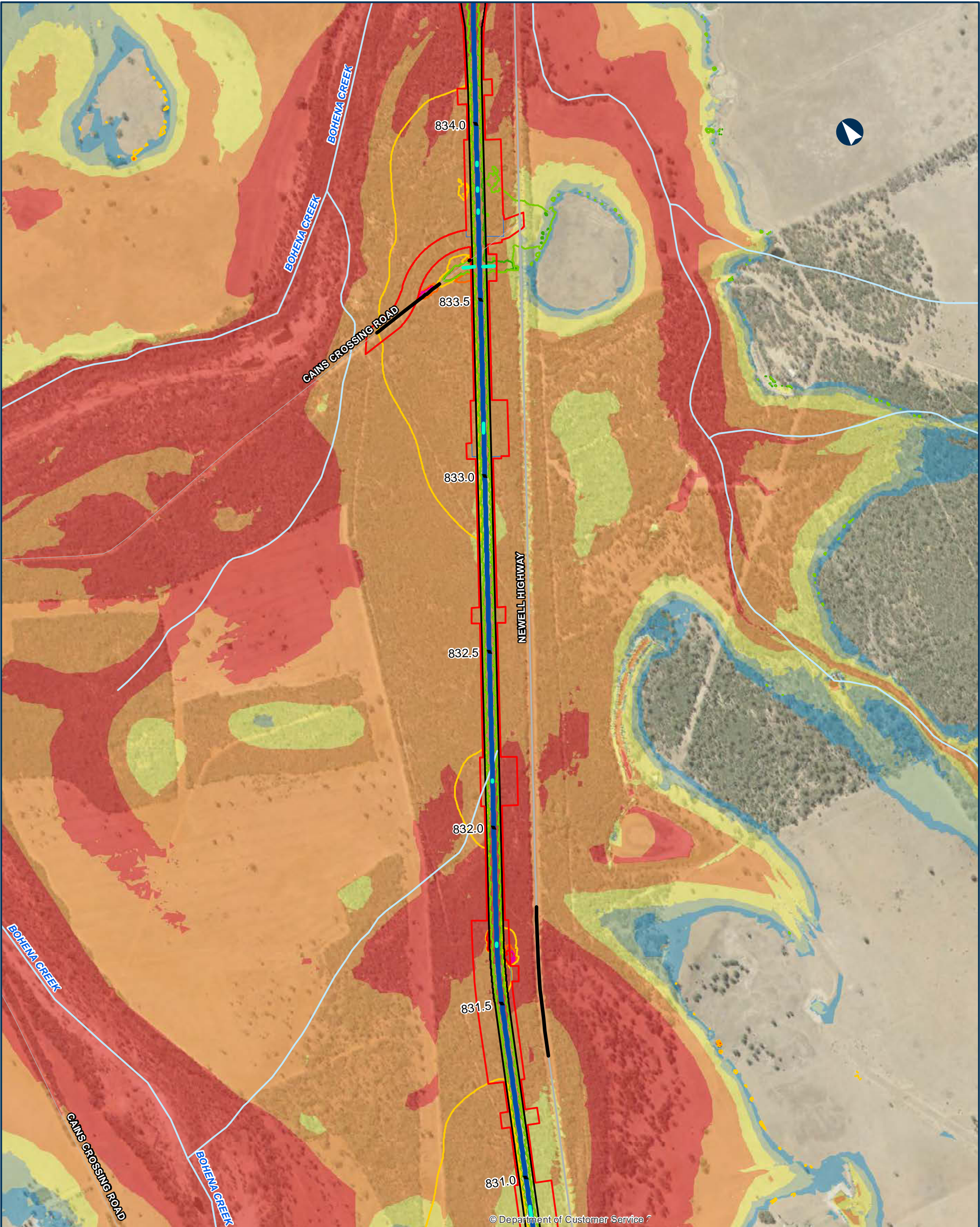
Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Habitat floor departure
- Bridge
- Culvert
- Road QDL departure
- Alignment
- Primary road
- Sub arterial road
- Local road
- Watercourse
- The proposal
- Drainage Control Area
- Rail Corridor
- Afflux contour
- 300mm
- 200mm
- 100mm
- 200mm
- 300mm
- Area of departure
- Other non-urban >300mm increase
- Existing Flood Depth
- 0.0m - 0.25m
- 0.25m - 0.5m
- 0.5m - 1.0m
- 1.0m - 2.0m
- > 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.96

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

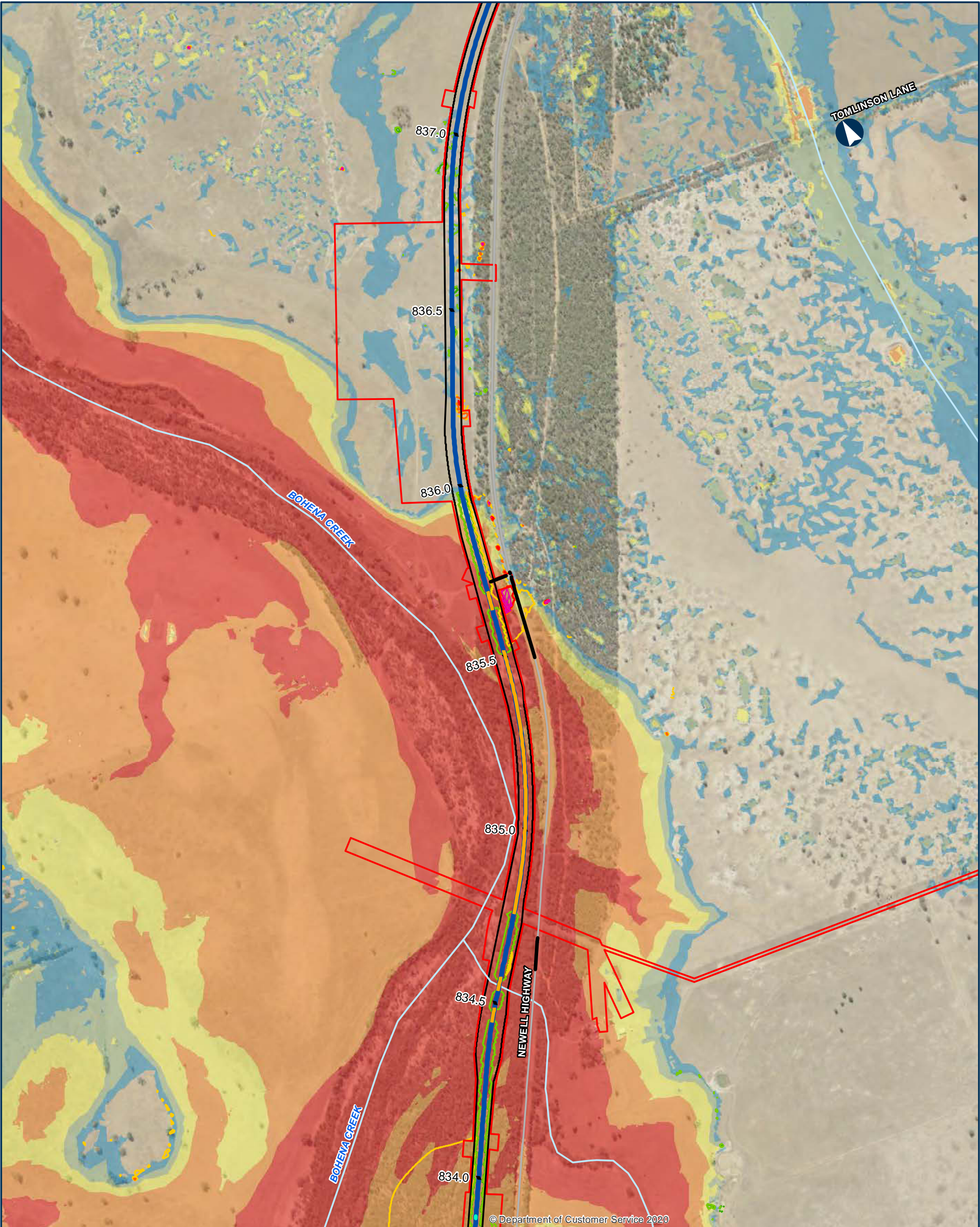
- Culvert
- Road QDL departure
- Alignment
- Primary road
- Local road
- Watercourse
- The proposal
- Drainage Control Area
- Rail Corridor
- Afflux contour
 - 300mm
 - 200mm
 - 100mm
 - 200mm
 - 300mm
- Area of departure
 - Agricultural >200mm increase
 - Other non-urban >300mm increase

- Existing Flood Depth
- 0.0m - 0.25m
 - 0.25m - 0.5m
 - 0.5m - 1.0m
 - 1.0m - 2.0m
 - > 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.97

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 9/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

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

Bridge

Culvert

Road QDL departure

Alignment

Primary road

Watercourse

The proposal

Drainage Control Area

Rail Corridor

Afflux contour

-300mm

-200mm

100mm

200mm

300mm

Area of departure

Other non-urban >300mm increase

Existing Flood Depth

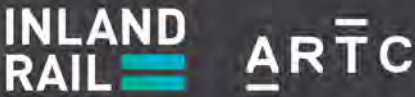
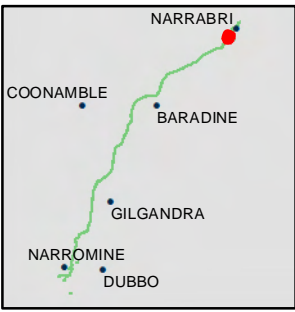
0.0m - 0.25m

0.25m - 0.5m

0.5m - 1.0m

1.0m - 2.0m

> 2.0m



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QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.98

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

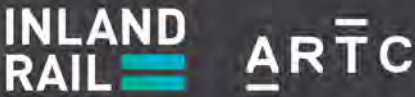
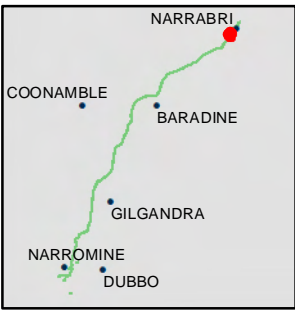
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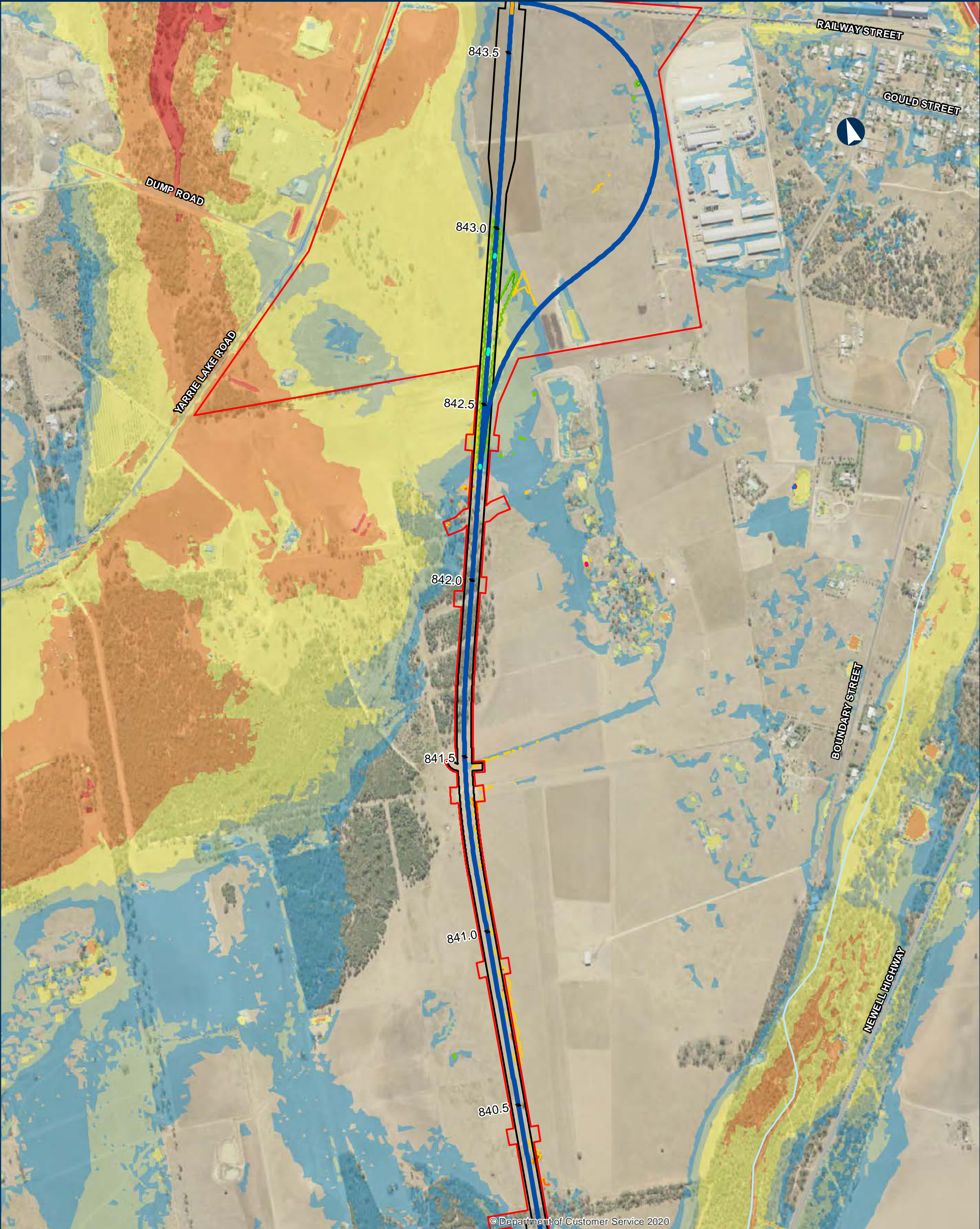
Culvert	The proposal
Alignment	Rail Corridor
Primary road	Afflux contour
Local road	-300mm
Watercourse	-200mm
	100mm
	200mm
	300mm
	Area of departure
	Other non-urban >300mm increase

Existing Flood Depth

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



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QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.99

0 200 400 Metres

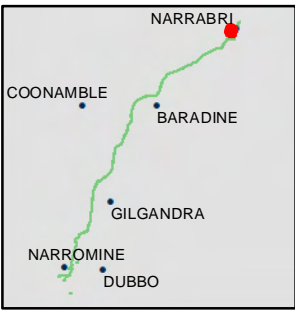
Coordinate System: GDA 1994 MGA Zone 55

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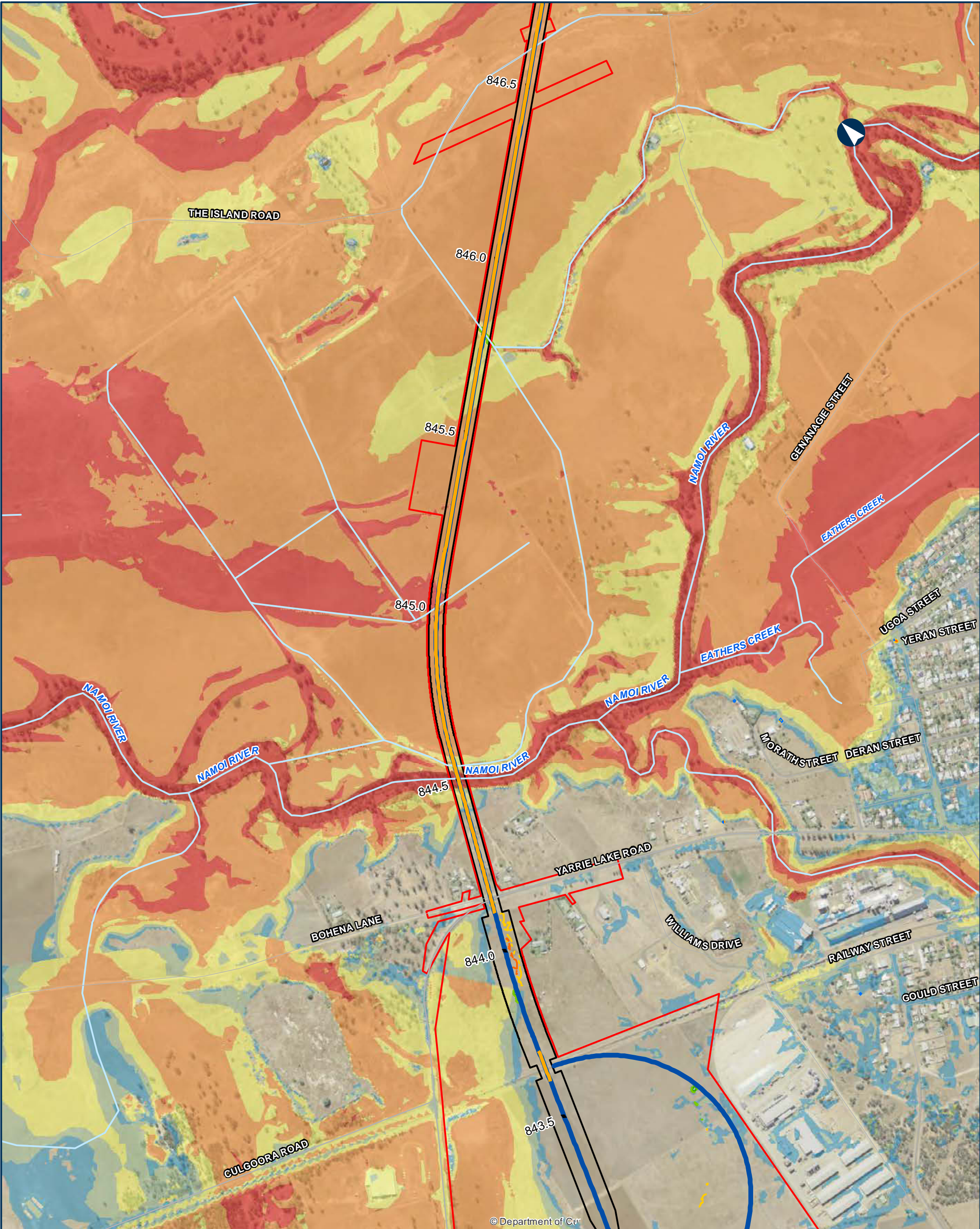
- Bridge
- Culvert
- Alignment
- Primary road
- Sub arterial road
- Local road
- Watercourse
- The proposal
- Rail Corridor
- Afflux contour
- 300mm
- 200mm
- 100mm
- 200mm
- 300mm
- Area of departure
- Urban and Infrastructure >100mm increase
- Other non-urban >300mm increase

- Existing Flood Depth
- 0.0m - 0.25m
 - 0.25m - 0.5m
 - 0.5m - 1.0m
 - 1.0m - 2.0m
 - > 2.0m



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QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.100

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
- Sub arterial road
- Local road
- Watercourse
- The proposal
- Rail Corridor
- Afflux contour
- 300mm
- 200mm
- 100mm
- 200mm
- Area of departure
- Urban and Infrastructure >100mm increase

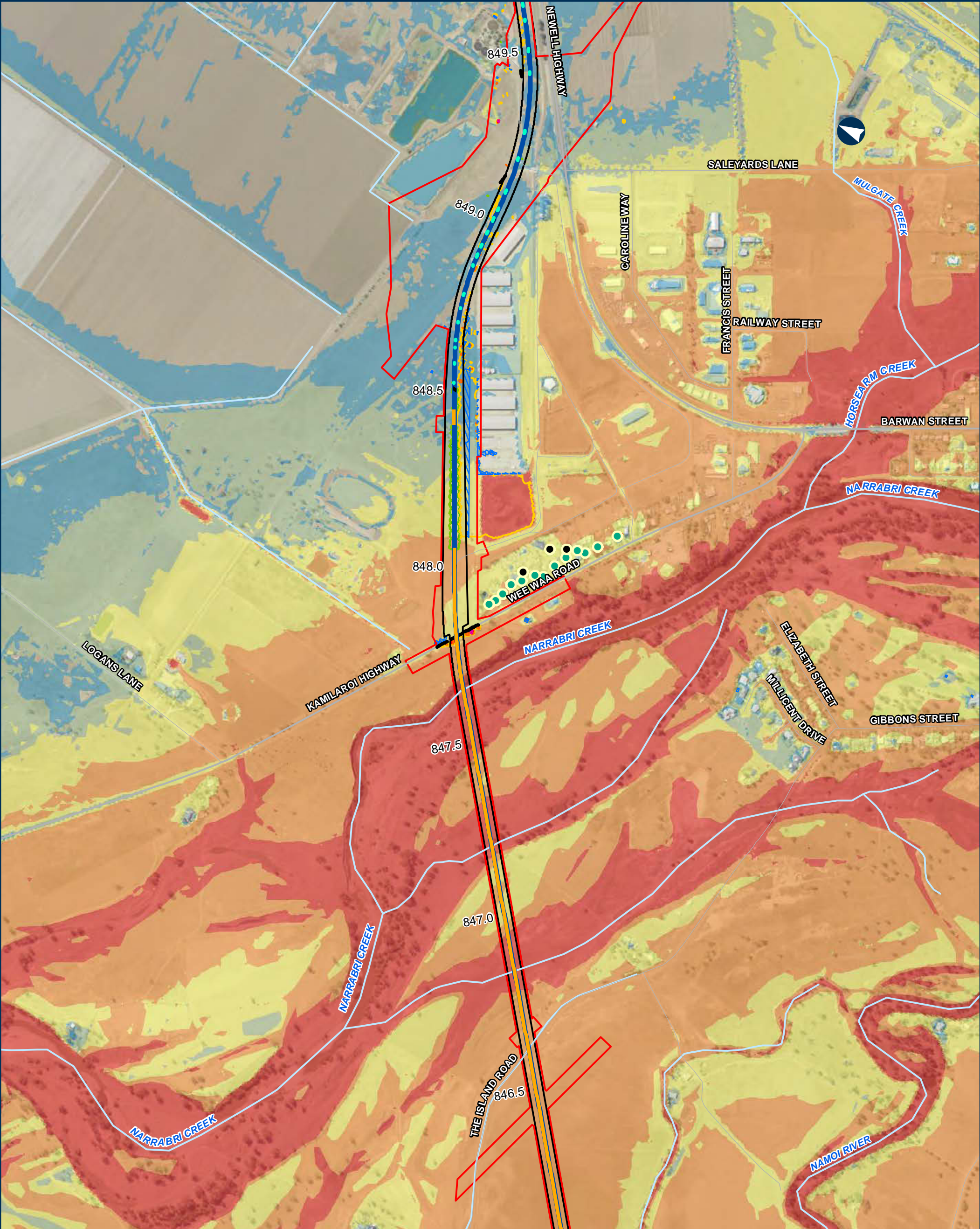
Existing Flood Depth

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



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QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.101

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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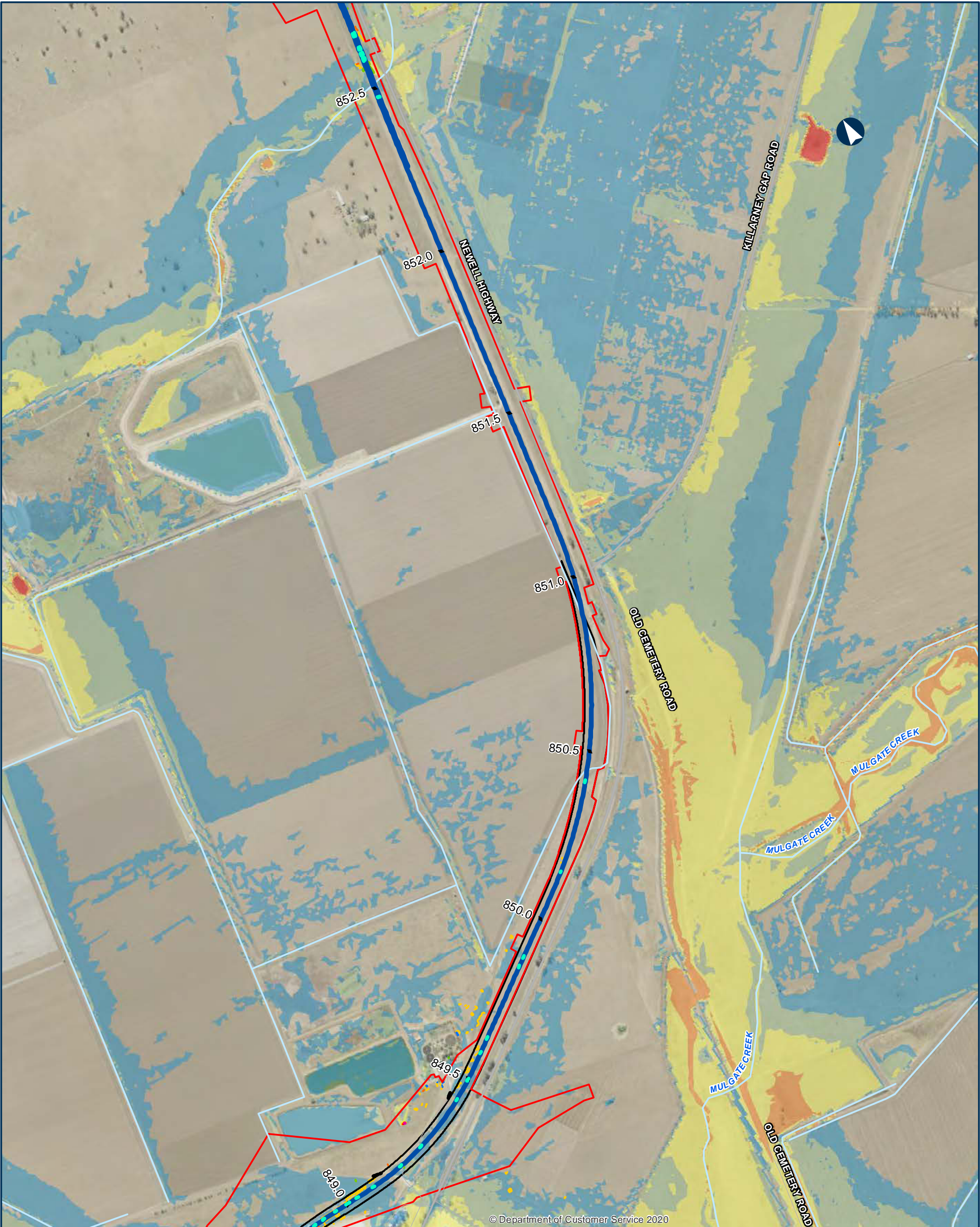
- Habitable floor departure
- Non-habitable floor departure
- Bridge
- Culvert
- Road QDL departure
- Alignment
- Primary road
- Local road
- Watercourse
- The proposal
- Rail Corridor
- Afflux contour
 - 300mm
 - 200mm
 - 100mm
 - 200mm
 - 300mm
- Area of departure
 - Urban and Infrastructure >100mm increase
 - Other non-urban >300mm increase

- Existing Flood Depth
- 0.0m - 0.25m
 - 0.25m - 0.5m
 - 0.5m - 1.0m
 - 1.0m - 2.0m
 - > 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.102

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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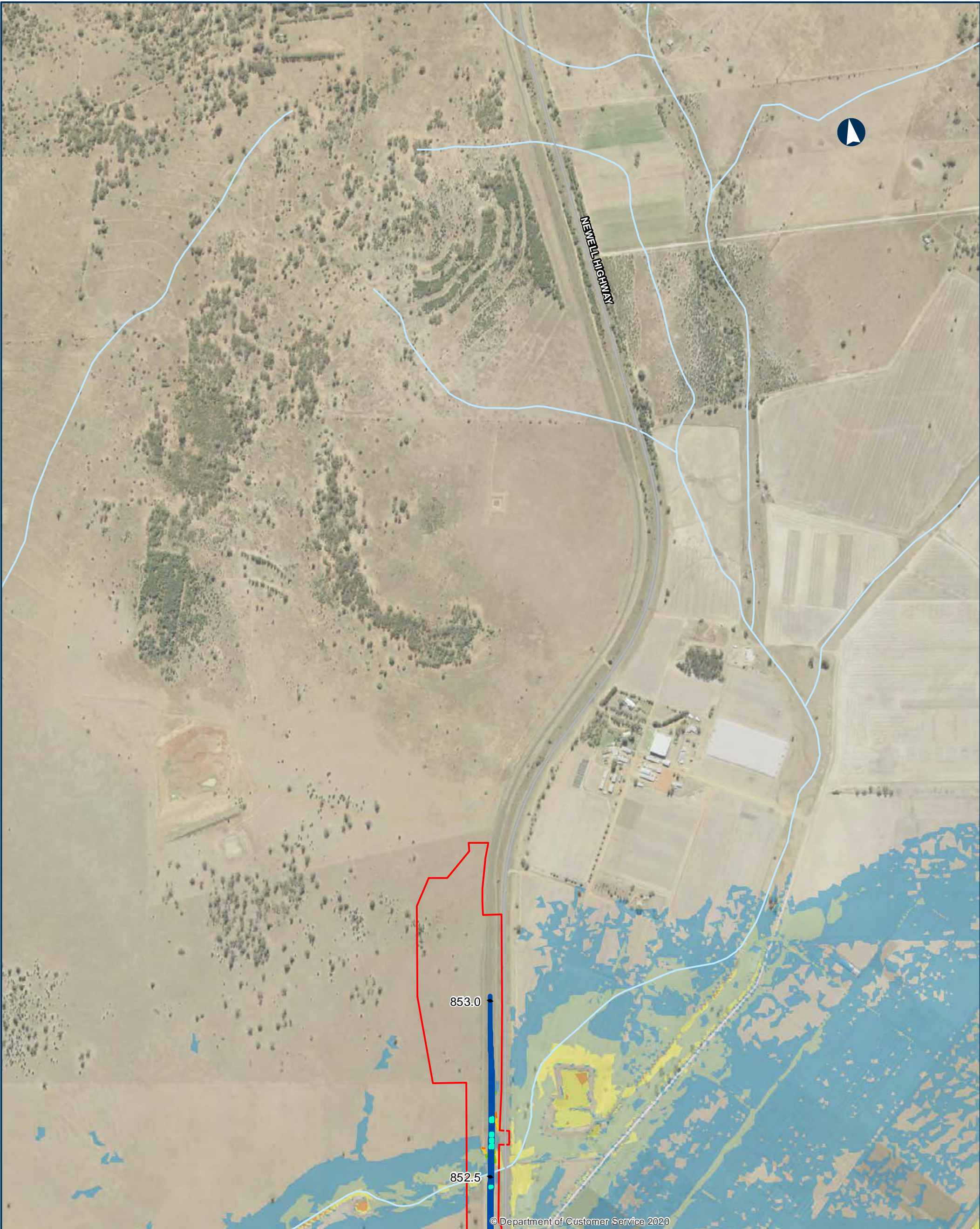
Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Culvert
- Road QDL departure
- Alignment
- Primary road
- Arterial road
- Local road
- Watercourse
- The proposal
- Rail Corridor
- Afflux contour
- 300mm
- 200mm
- 100mm
- 200mm
- 300mm
- Area of departure
- Urban and Infrastructure >100mm increase
- Other non-urban >300mm increase
- Existing Flood Depth
- 0.0m - 0.25m
- 0.25m - 0.5m
- 0.5m - 1.0m
- 1.0m - 2.0m
- > 2.0m



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QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.103

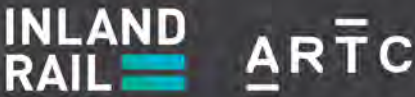
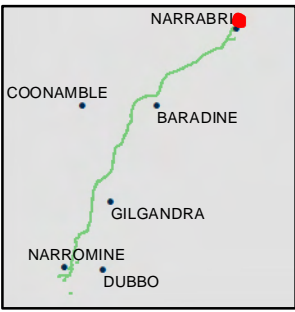
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

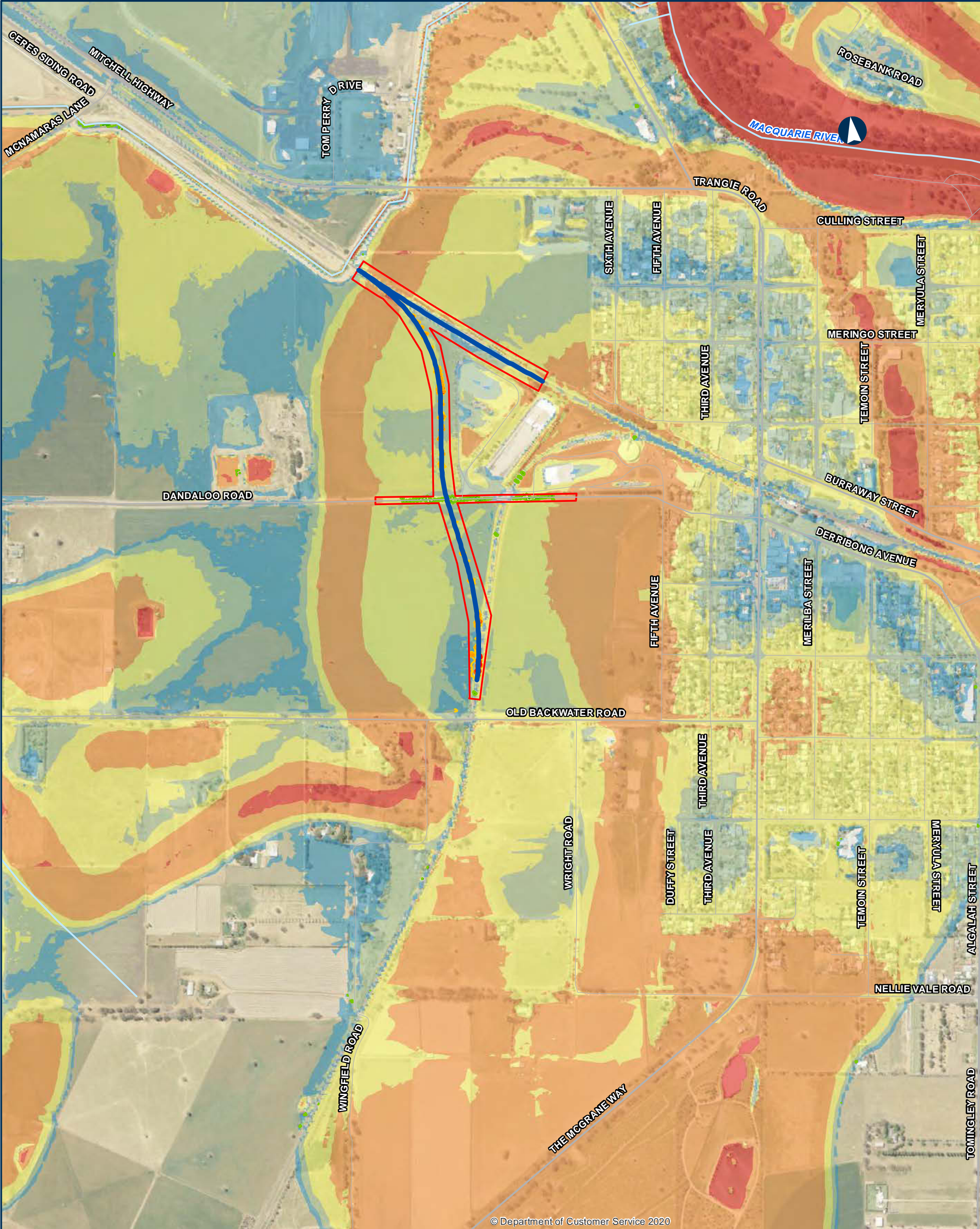
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- | | | |
|---------------|----------------|----------------------|
| Culvert | The proposal | Existing Flood Depth |
| Alignment | Afflux contour | 0.0m - 0.25m |
| Primary road | -300mm | 0.25m - 0.5m |
| Arterial road | -200mm | 0.5m - 1.0m |
| Watercourse | 100mm | 1.0m - 2.0m |
| | 200mm | |



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QDL departures - Afflux - 1% AEP with blockage

Appendix I - Figure 1.4.104

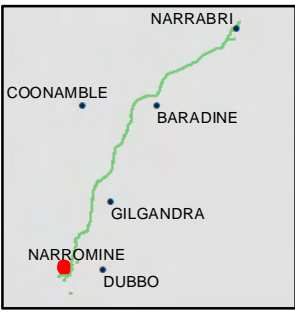
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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

- Alignment
 - Primary road
 - Arterial road
 - Sub arterial road
 - Local road
 - Watercourse
- The proposal
- Afflux contour
- 300mm
 - 200mm
 - 100mm
 - 200mm
 - 300mm
- Area of departure
- Agricultural >200mm increase
- Existing Flood Depth
- 0.0m - 0.25m
 - 0.25m - 0.5m
 - 0.5m - 1.0m
 - 1.0m - 2.0m
 - > 2.0m



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