

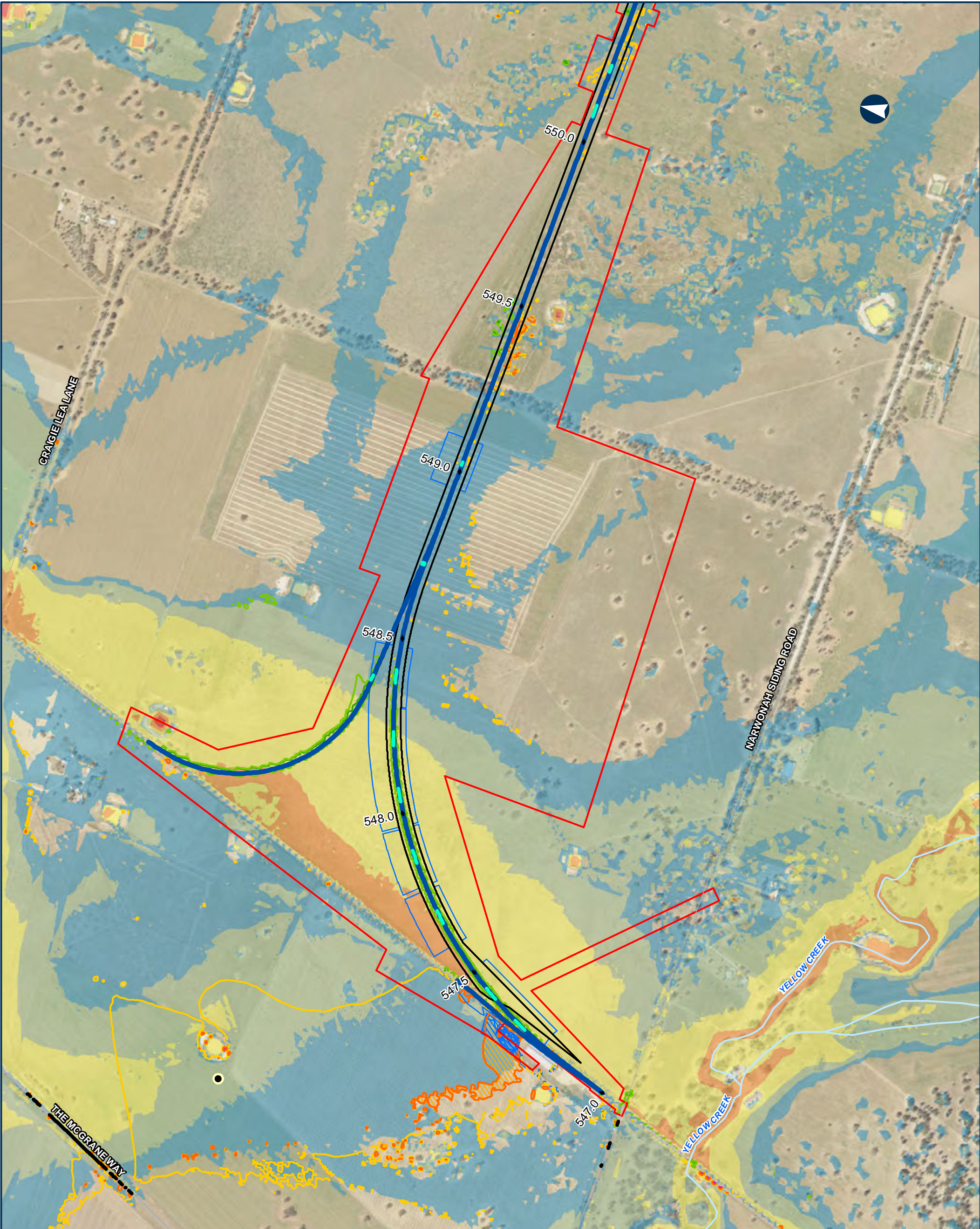
TECHNICAL REPORT 03

Updated flooding and hydrology assessment

Appendix I2 QDL compliance (afflux 5% AEP)

NARROMINE TO NARRABRI PROJECT





NARROMINE TO NARRABRI QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.1

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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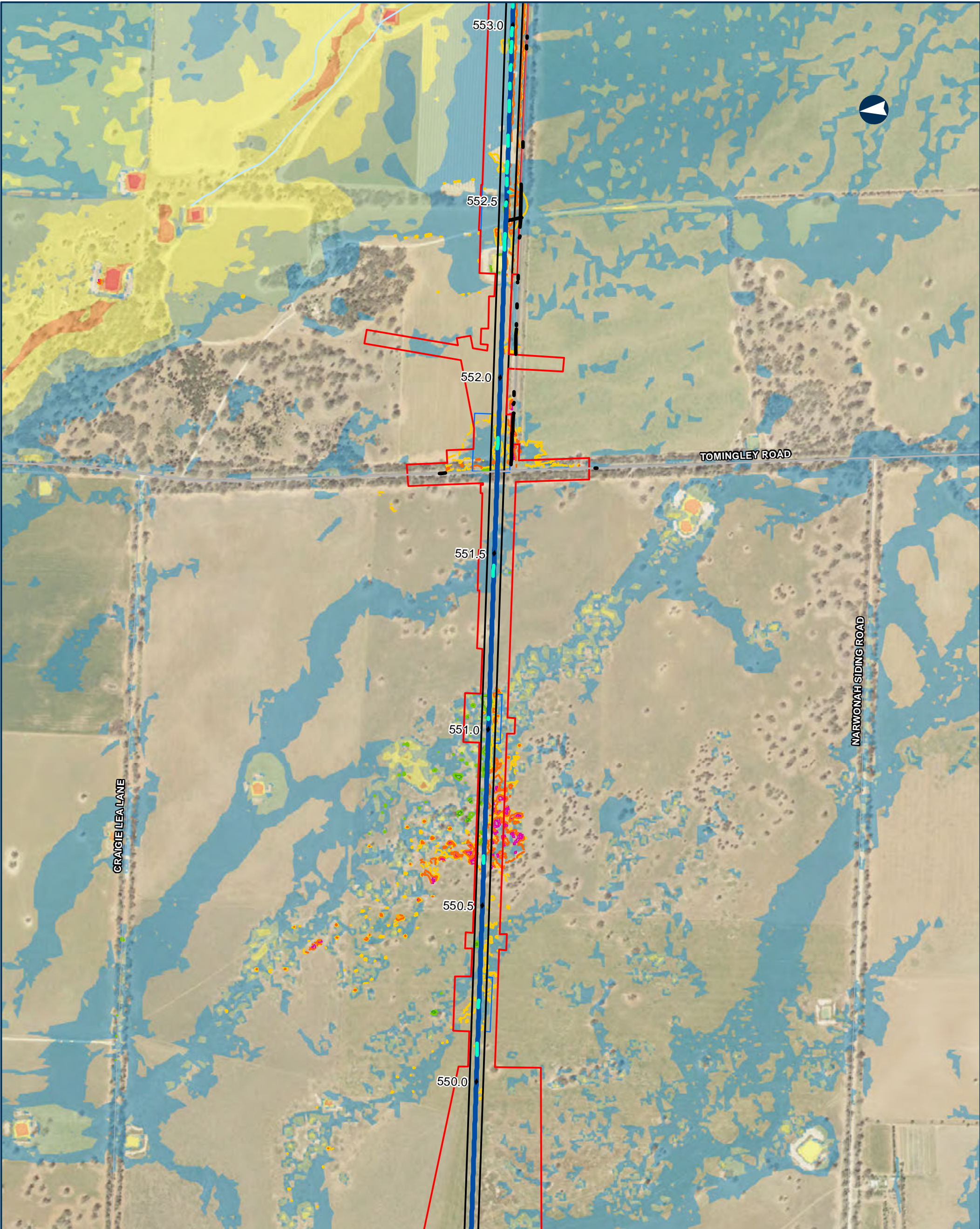
Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- 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
- 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 - 5% AEP

Appendix I - Figure 1.2.2

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

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

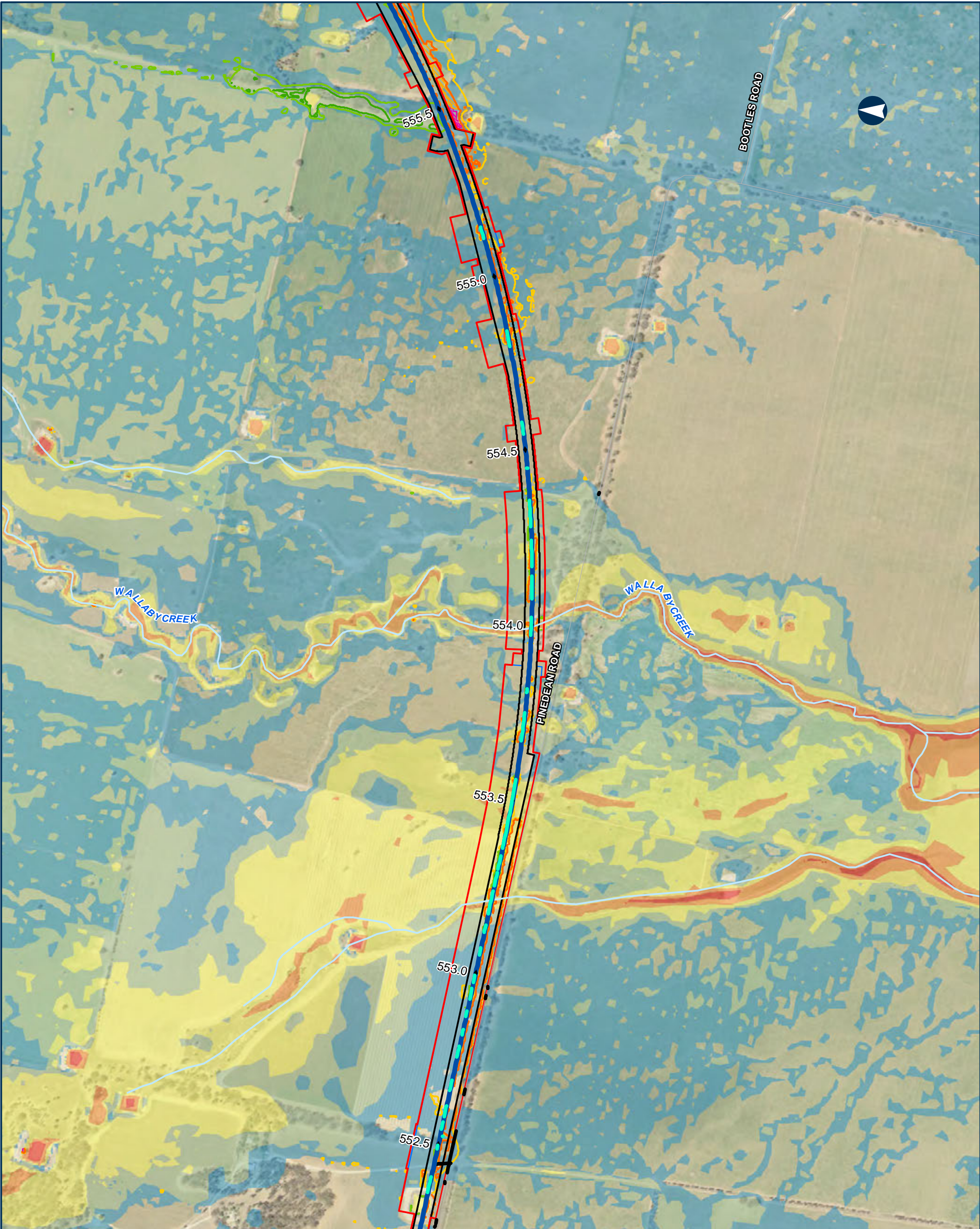
> 2.0m



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NARROMINE TO NARRABRI QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.3

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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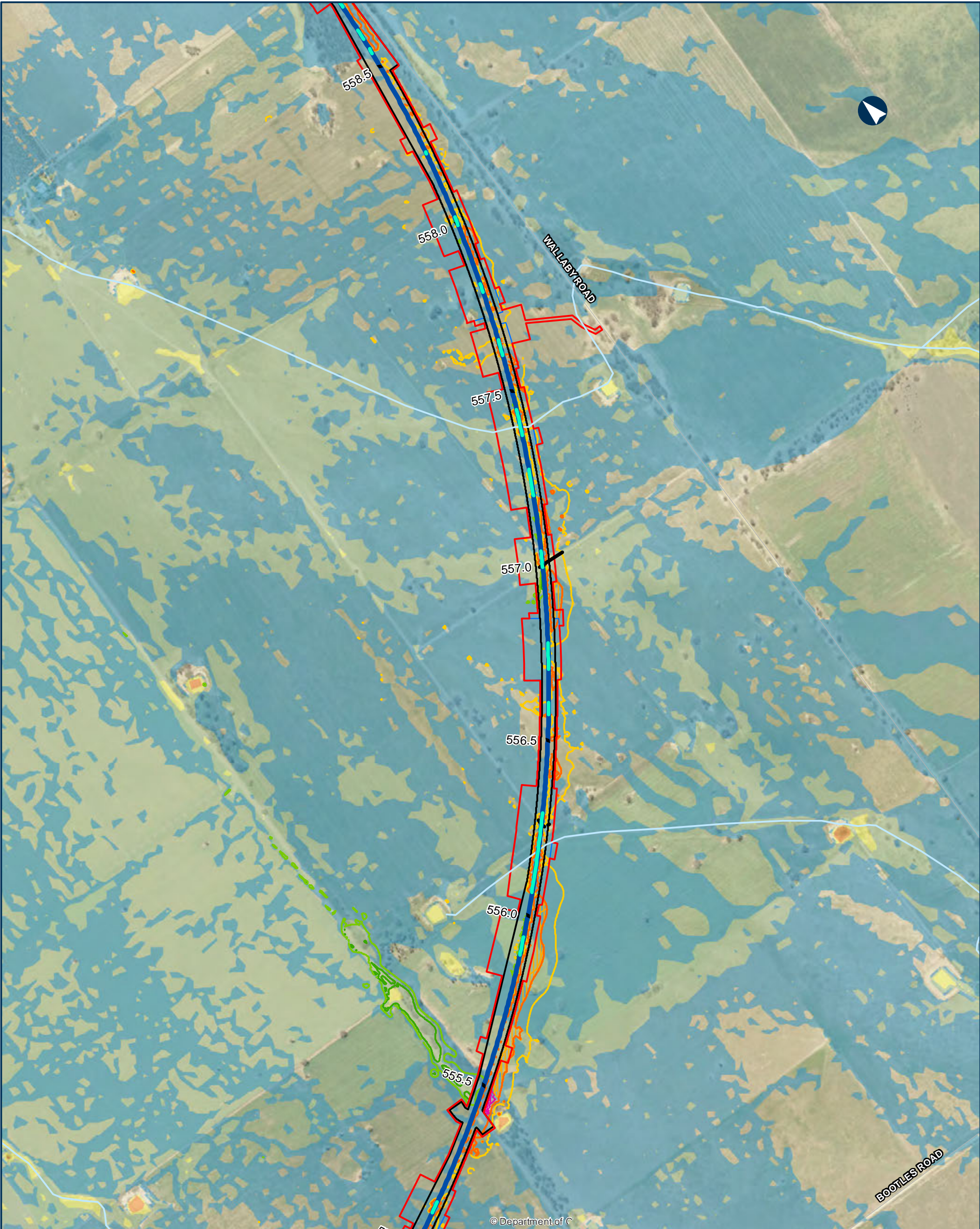
Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- | | | |
|--|---|---|
| <ul style="list-style-type: none">CulvertRoad QDL departureAlignmentLocal roadWatercourseThe proposalDrainage Control AreaRail Corridor | <ul style="list-style-type: none">Afflux contour<ul style="list-style-type: none">-300mm-200mm100mm200mmArea 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 - 5% AEP

Appendix I - Figure 1.2.4

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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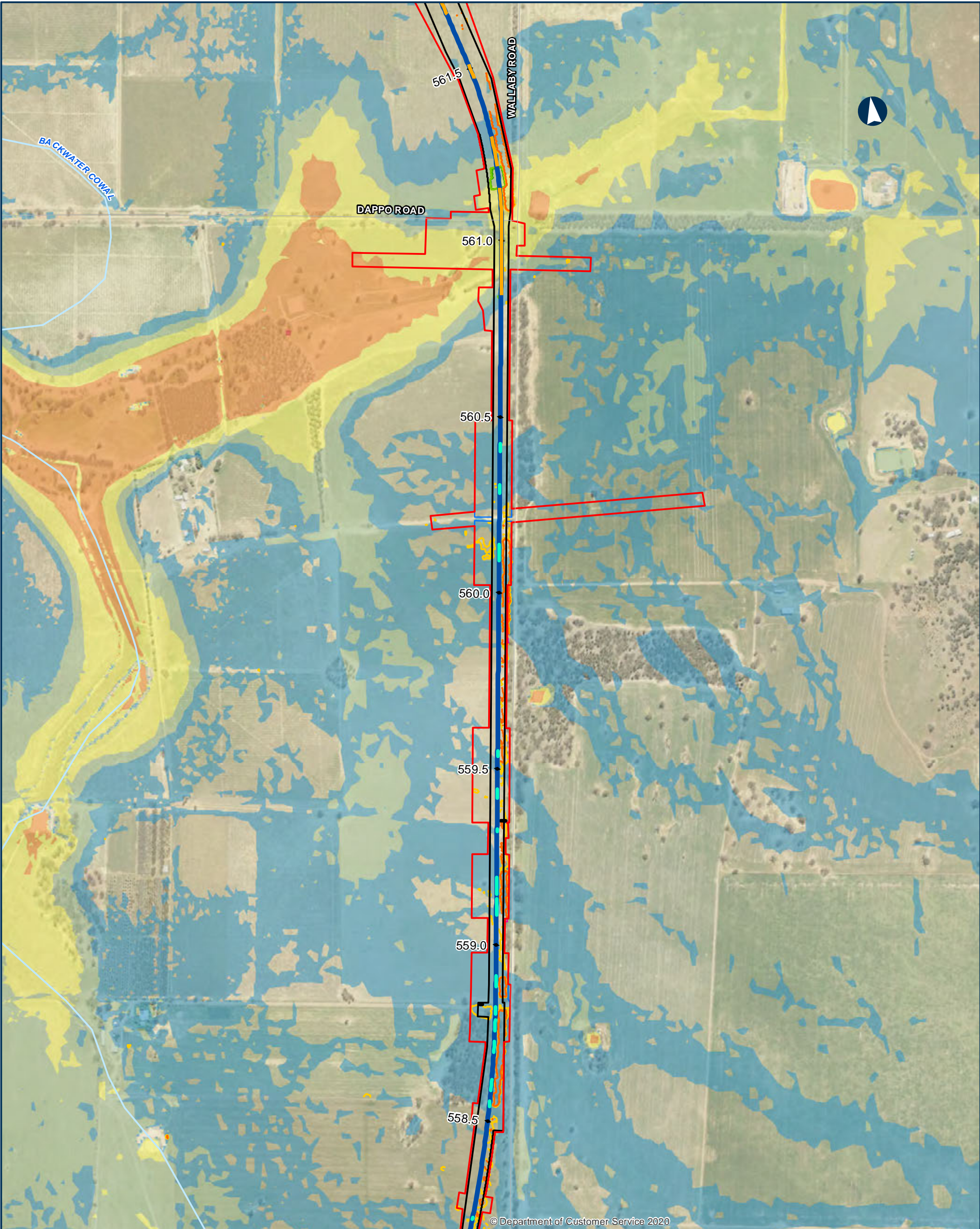
Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

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



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NARROMINE TO NARRABRI

QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.5

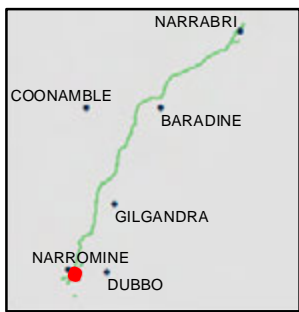
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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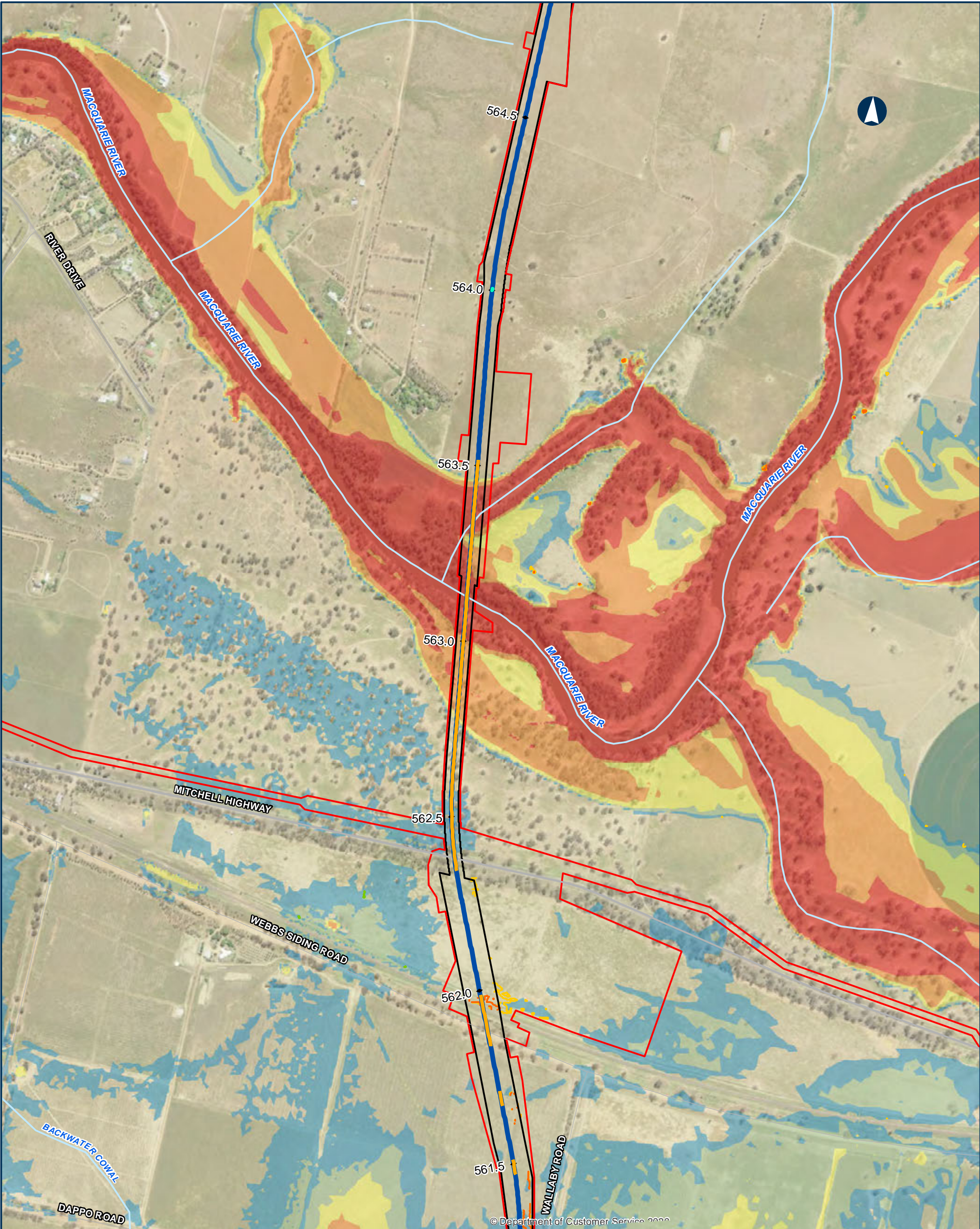
Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

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



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NARROMINE TO NARRABRI

QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.6

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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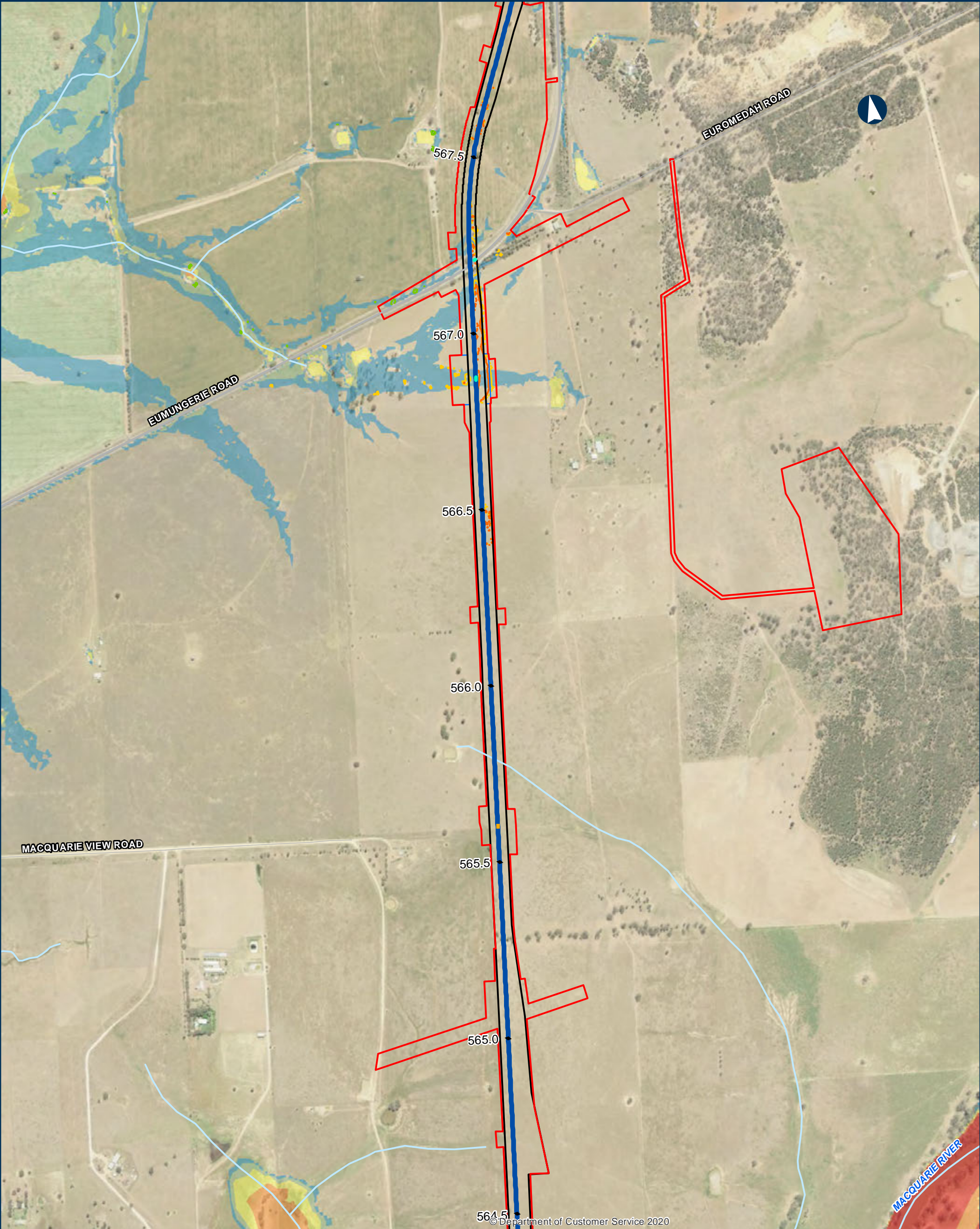
Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

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



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NARROMINE TO NARRABRI

QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.7

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

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

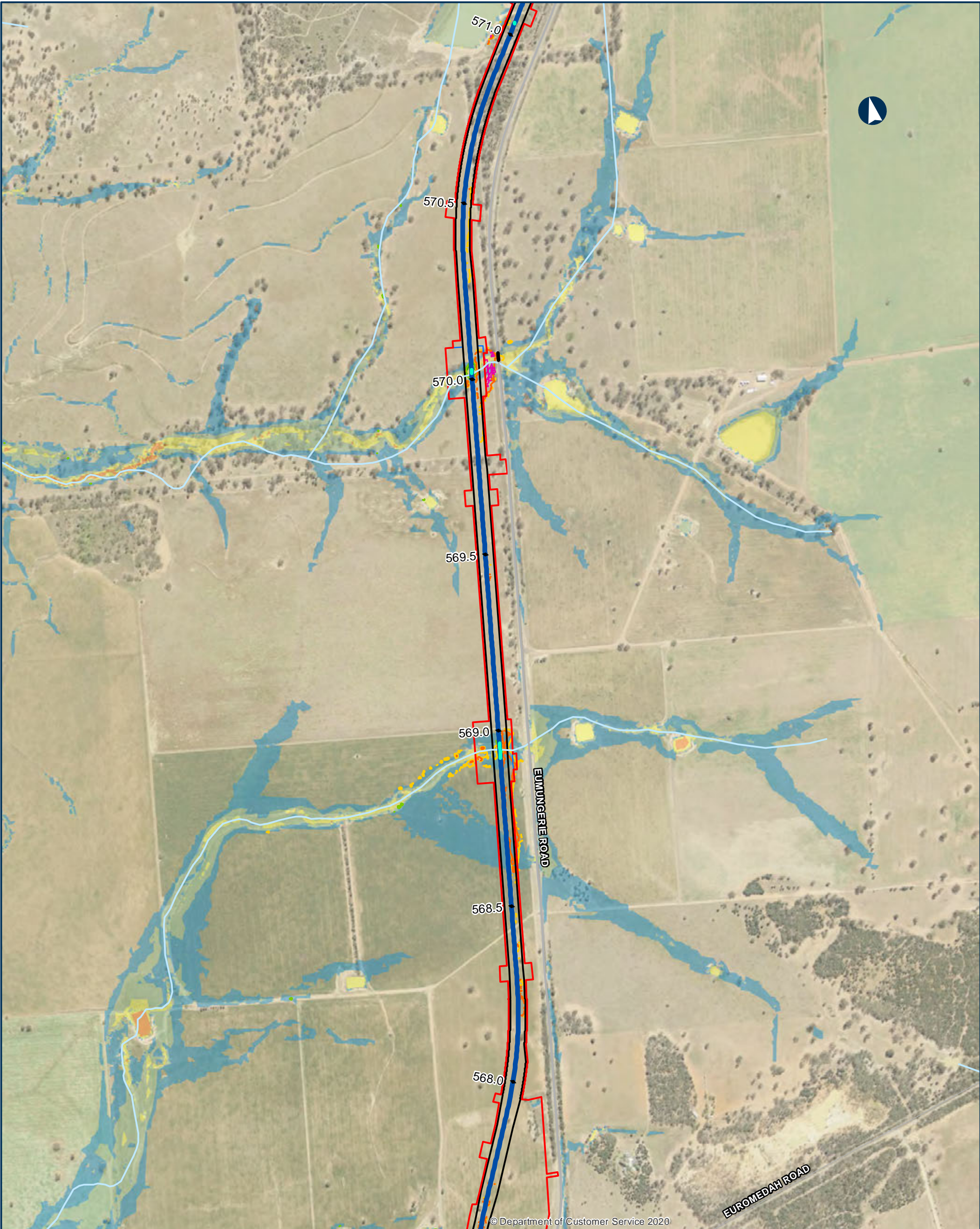
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NARROMINE TO NARRABRI

QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.8

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

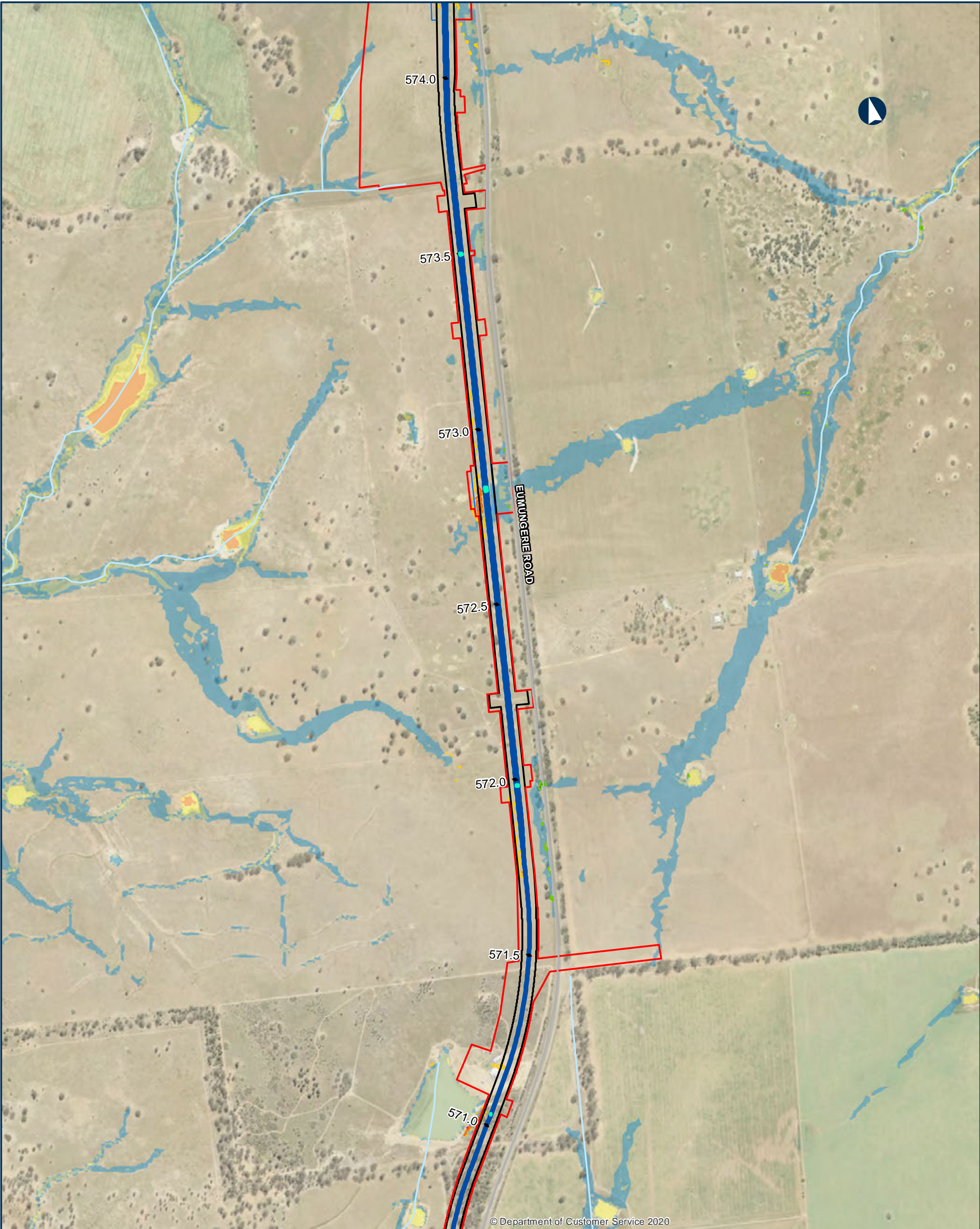
- Culvert
 - Road ODL departure
 - Alignment
 - Arterial road
 - Local road
 - Watercourse
 - The proposal
 - Drainage Control Area
 - Rail Corridor
- Afflux contour**
- 300mm
 - 200mm
 - 100mm
 - 200mm
- Area of departure**
- Agricultural >200mm increase
 - Other non-urban >300mm increase

- 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 - 5% AEP

Appendix I - Figure 1.2.9

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

Arterial road

Watercourse

The proposal

Drainage Control Area

Rail Corridor

Afflux contour

-300mm

-200mm

100mm

200mm

Area of departure

Agricultural >200mm increase

Other non-urban >300mm increase

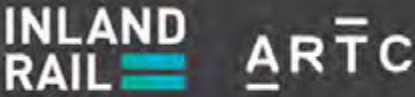
Existing Flood Depth

0.0m - 0.25m

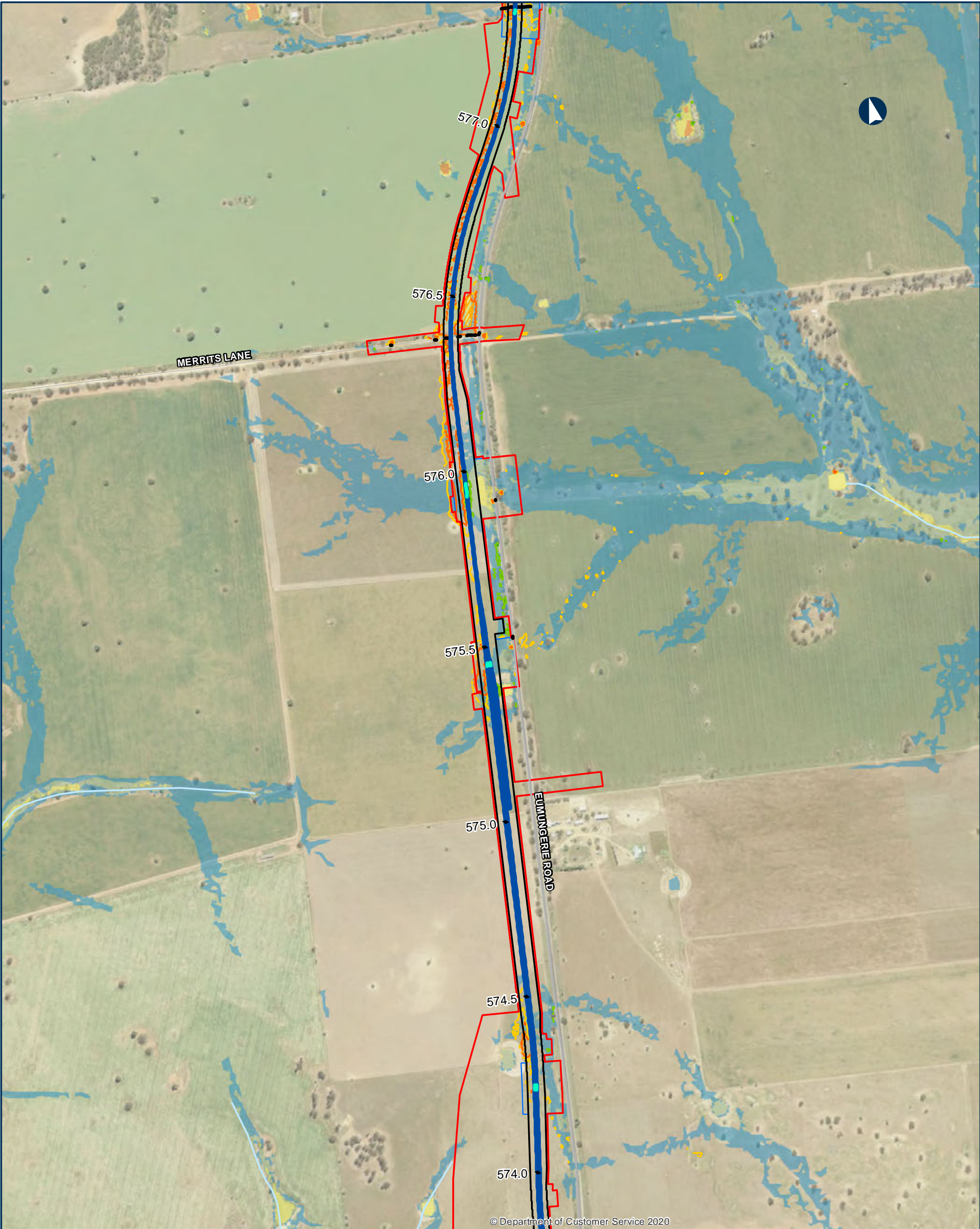
0.25m - 0.5m

0.5m - 1.0m

1.0m - 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.10

0 200 400 Metres

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

Afflux contour

- 300mm
- 200mm
- 100mm
- 200mm

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

Legend

- Culvert
- Road QDL departure
- Alignment
- Arterial road
- Local road
- Watercourse
- The proposal
- Drainage Control Area
- Rail Corridor

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NARROMINE TO NARRABRI

QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.11

0200400Metres

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

Paper: A3
Scale: 1:10,000

Culvert

Road ODL departure

Alignment

Arterial road

Sub arterial road

Watercourse

The proposal

Drainage Control Area

Rail Corridor

Afflux contour

-300mm

-200mm

100mm

200mm

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

NARRABRI

COONAMBLE

BARADINE

GILGANDRA

NARROMINE

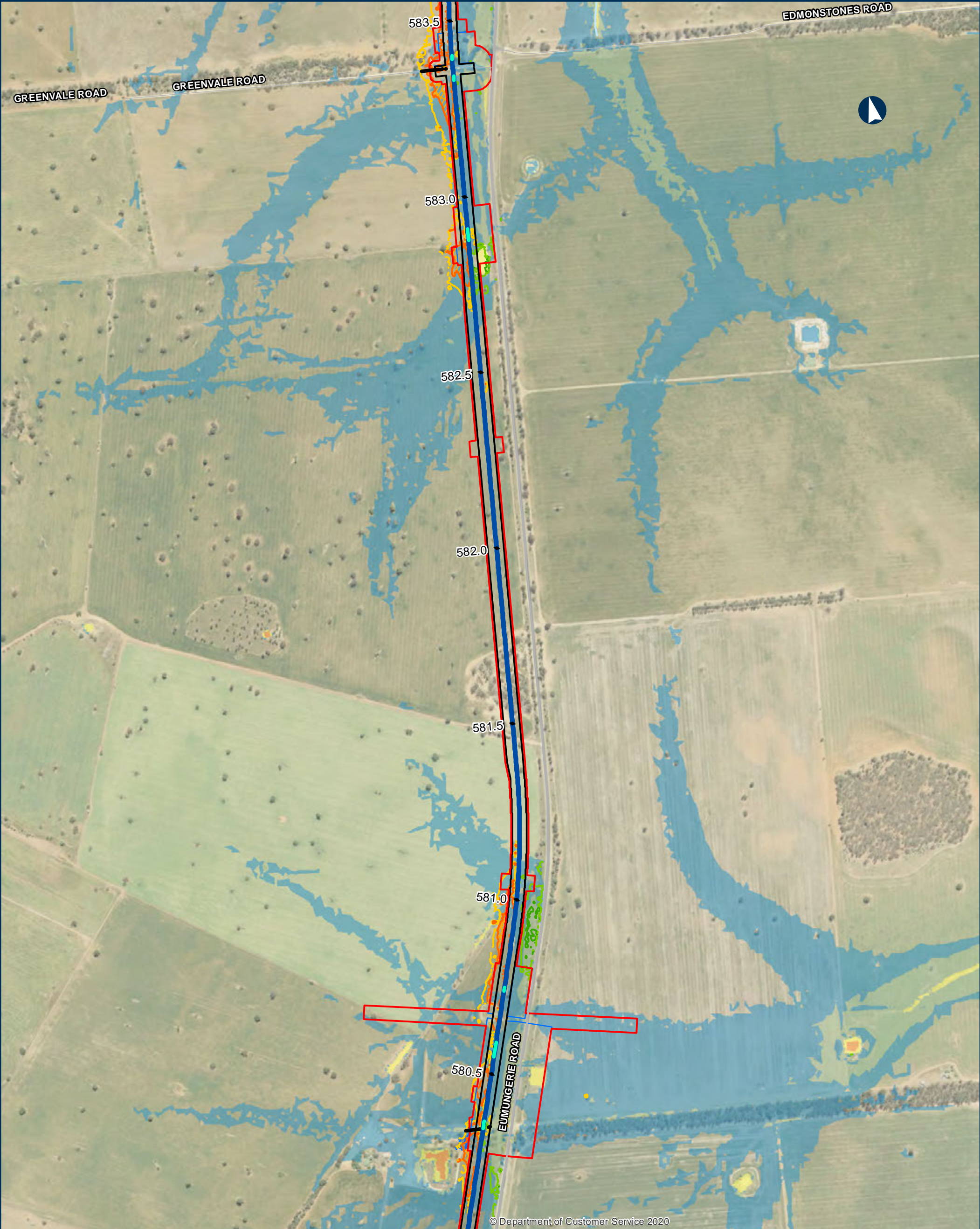
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NARROMINE TO NARRABRI

QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.12

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

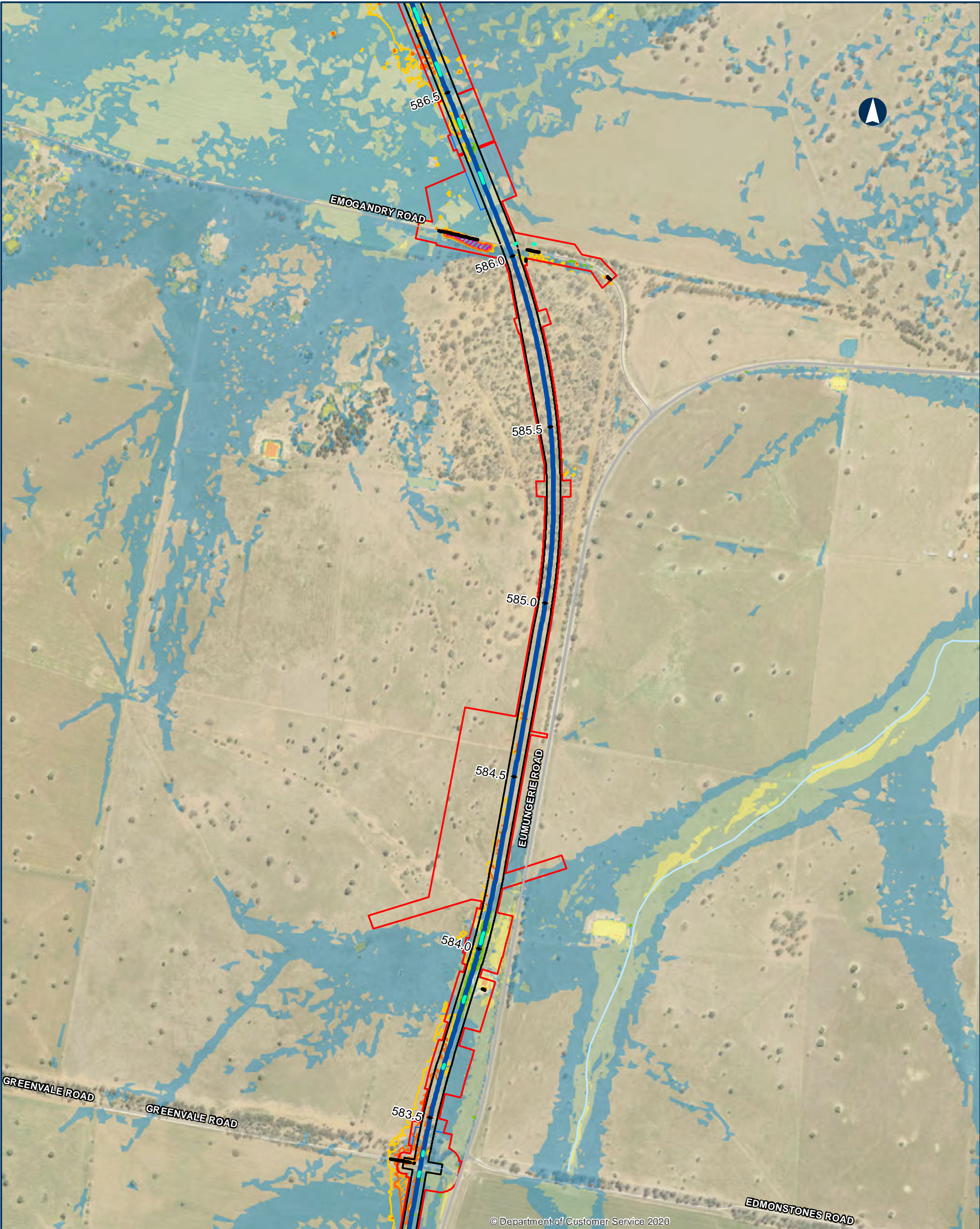
- Culvert
 - Road ODL departure
 - Alignment
 - Arterial road
 - Local road
 - Watercourse
 - The proposal
 - Drainage Control Area
 - Rail Corridor
- Afflux contour**
- 300mm
 - 200mm
 - 100mm
 - 200mm
- Area of departure**
- Urban and Infrastructure >100mm increase
 - Agricultural >200mm increase

- 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 - 5% AEP

Appendix I - Figure 1.2.13

0 200 400 Metres

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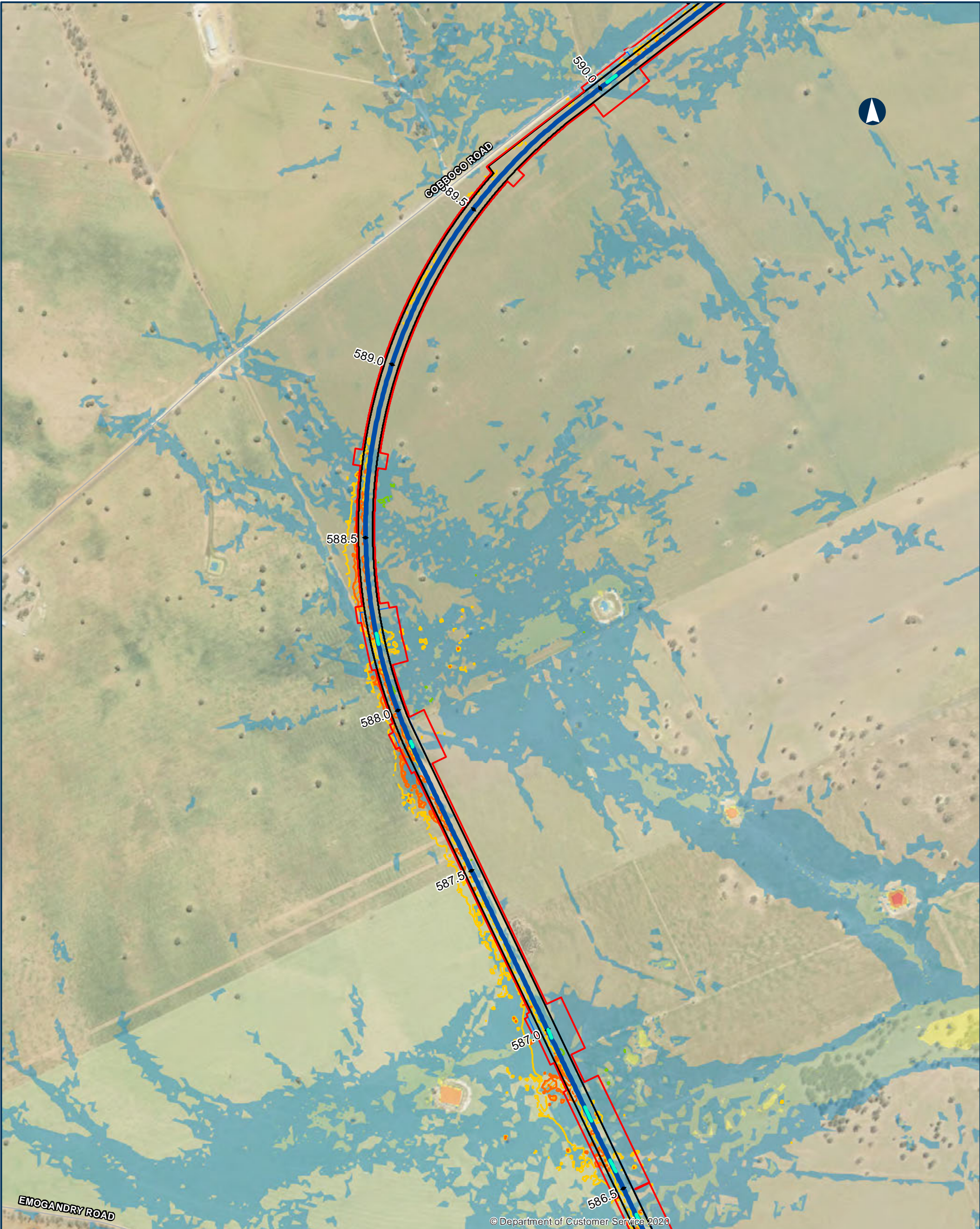
Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

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



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NARROMINE TO NARRABRI

QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.14

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 ODL departure

Alignment

Sub arterial road

Watercourse

The proposal

Drainage Control Area

Rail Corridor

Afflux contour

-300mm

-200mm

100mm

200mm

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

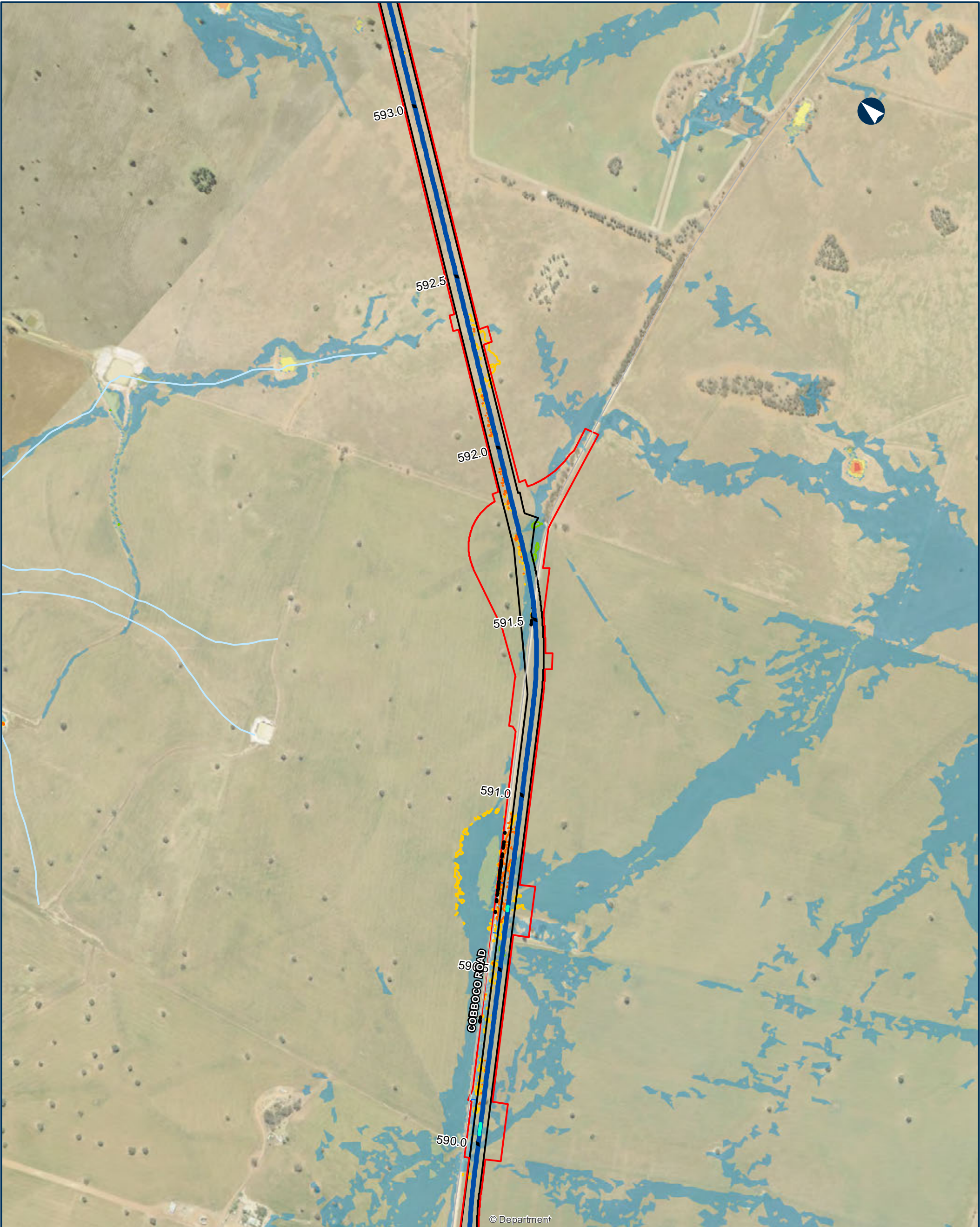
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NARROMINE TO NARRABRI

QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.15

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 ODL departure

Alignment

Sub arterial road

Watercourse

The proposal

Drainage Control Area

Rail Corridor

Afflux contour

-300mm

-200mm

100mm

200mm

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

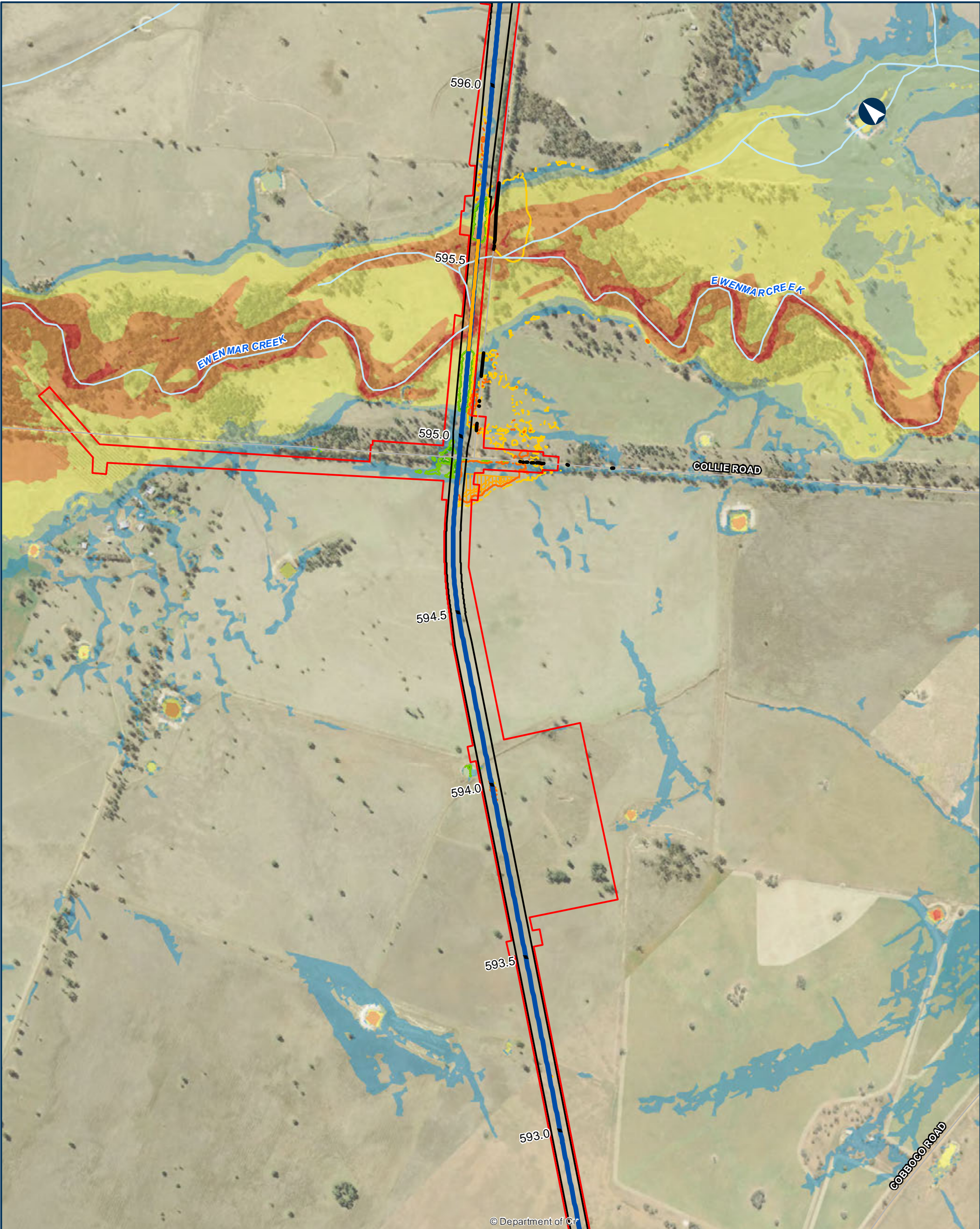
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NARROMINE TO NARRABRI

QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.16

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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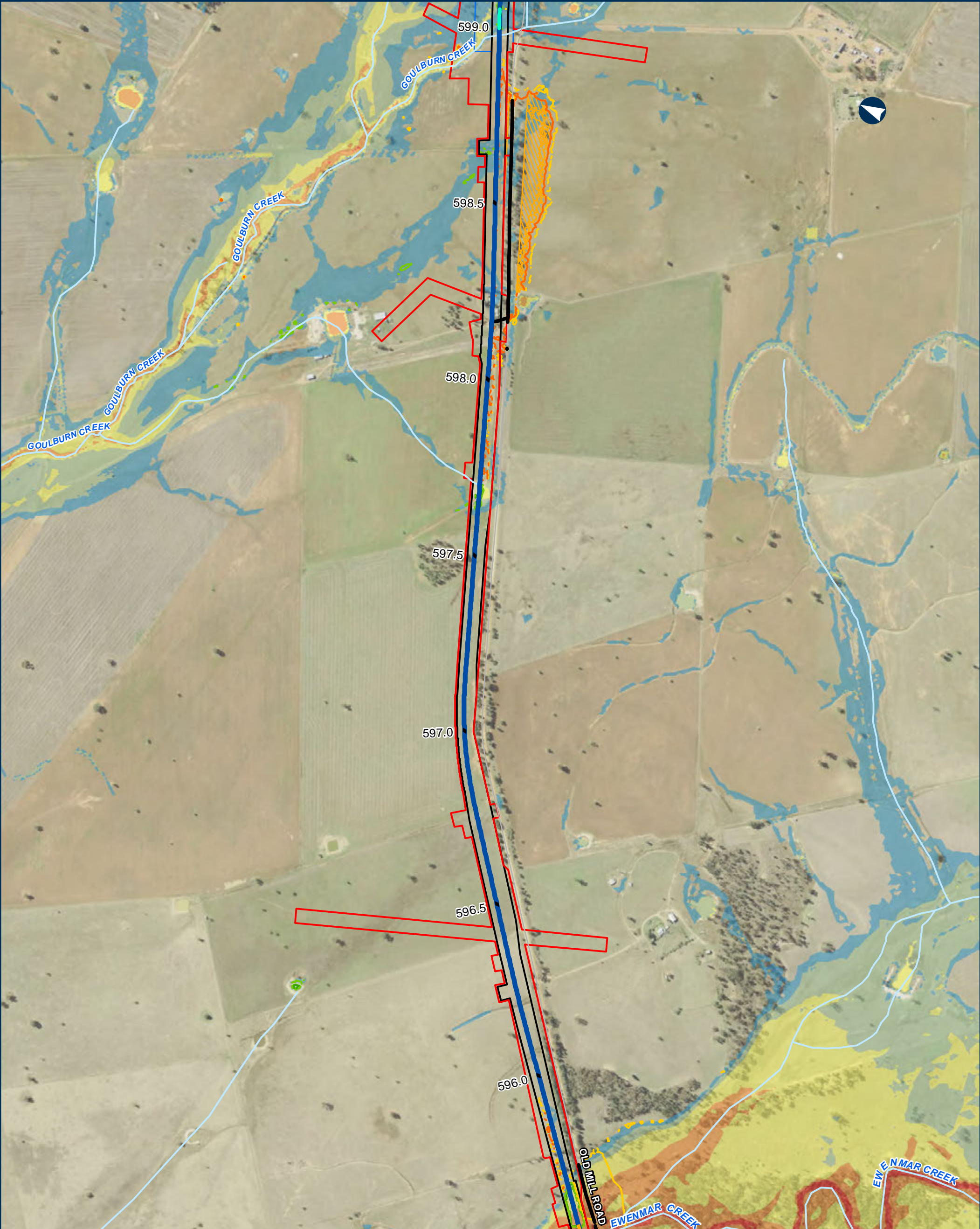
Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Bridge
 - Road ODL departure
 - Alignment
 - Sub arterial road
 - Watercourse
 - The proposal
 - Rail Corridor
- Afflux contour**
- 300mm
 - 200mm
 - 100mm
 - 200mm
- 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 - 5% AEP

Appendix I - Figure 1.2.17

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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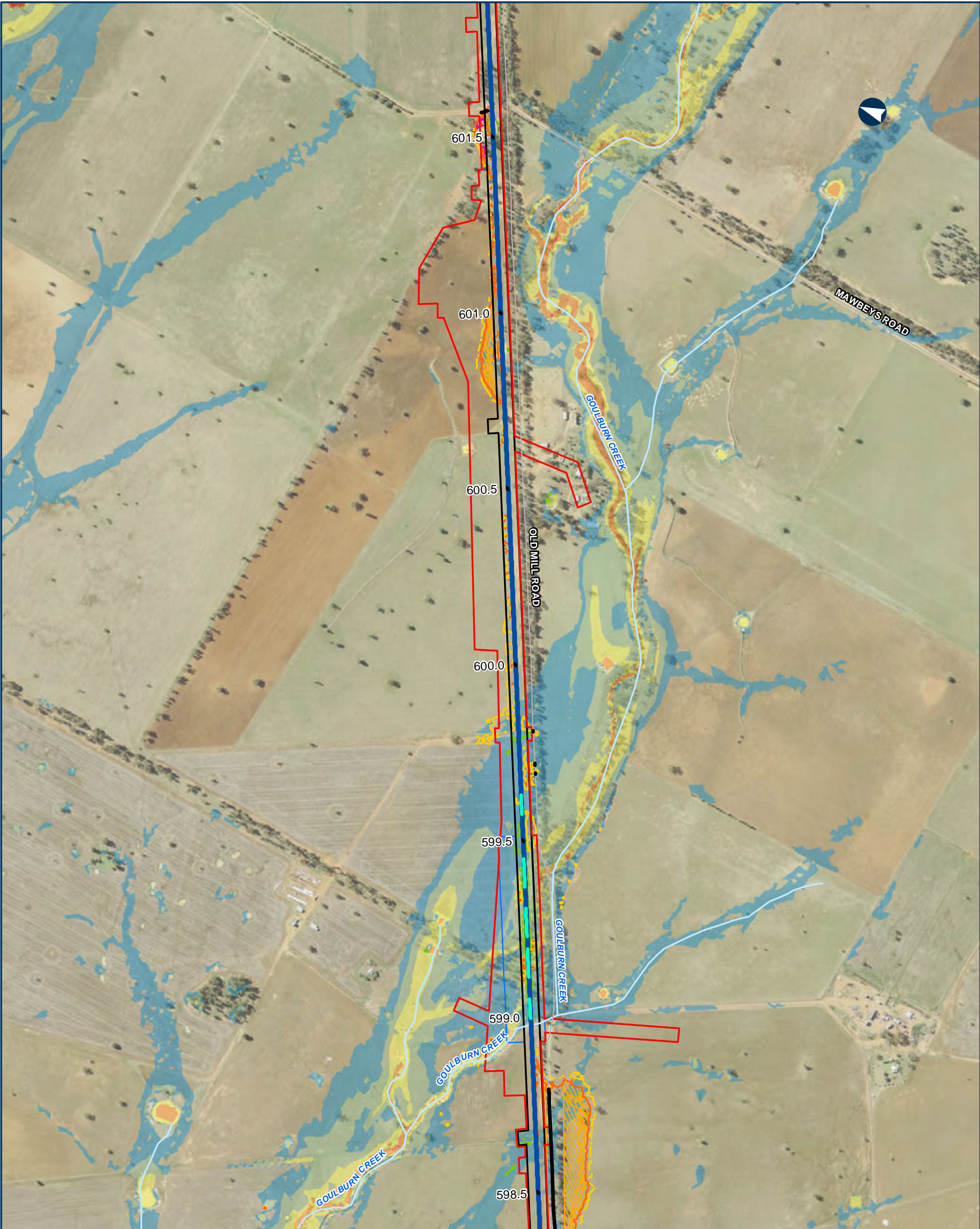
Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

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



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NARROMINE TO NARRABRI

QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.18

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 ODL departure

Alignment

Sub arterial road

Watercourse

The proposal

Drainage Control Area

Rail Corridor
- Afflux contour

-300mm

-200mm

100mm

200mm

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

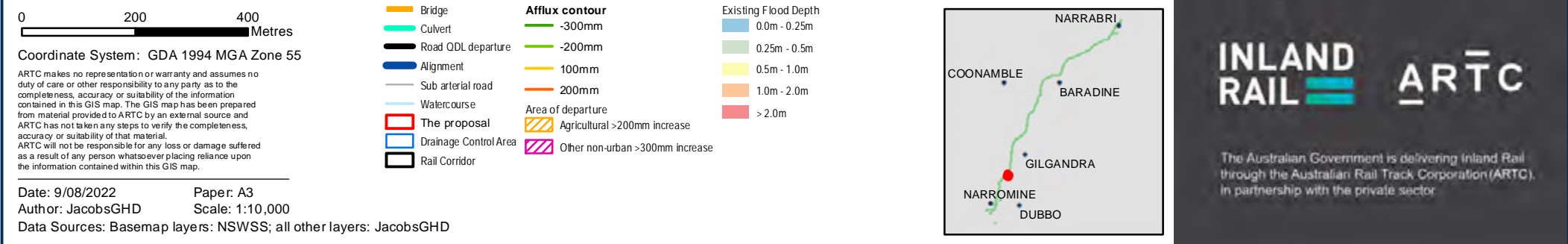
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NARROMINE TO NARRABRI

QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.19





NARROMINE TO NARRABRI

QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.20

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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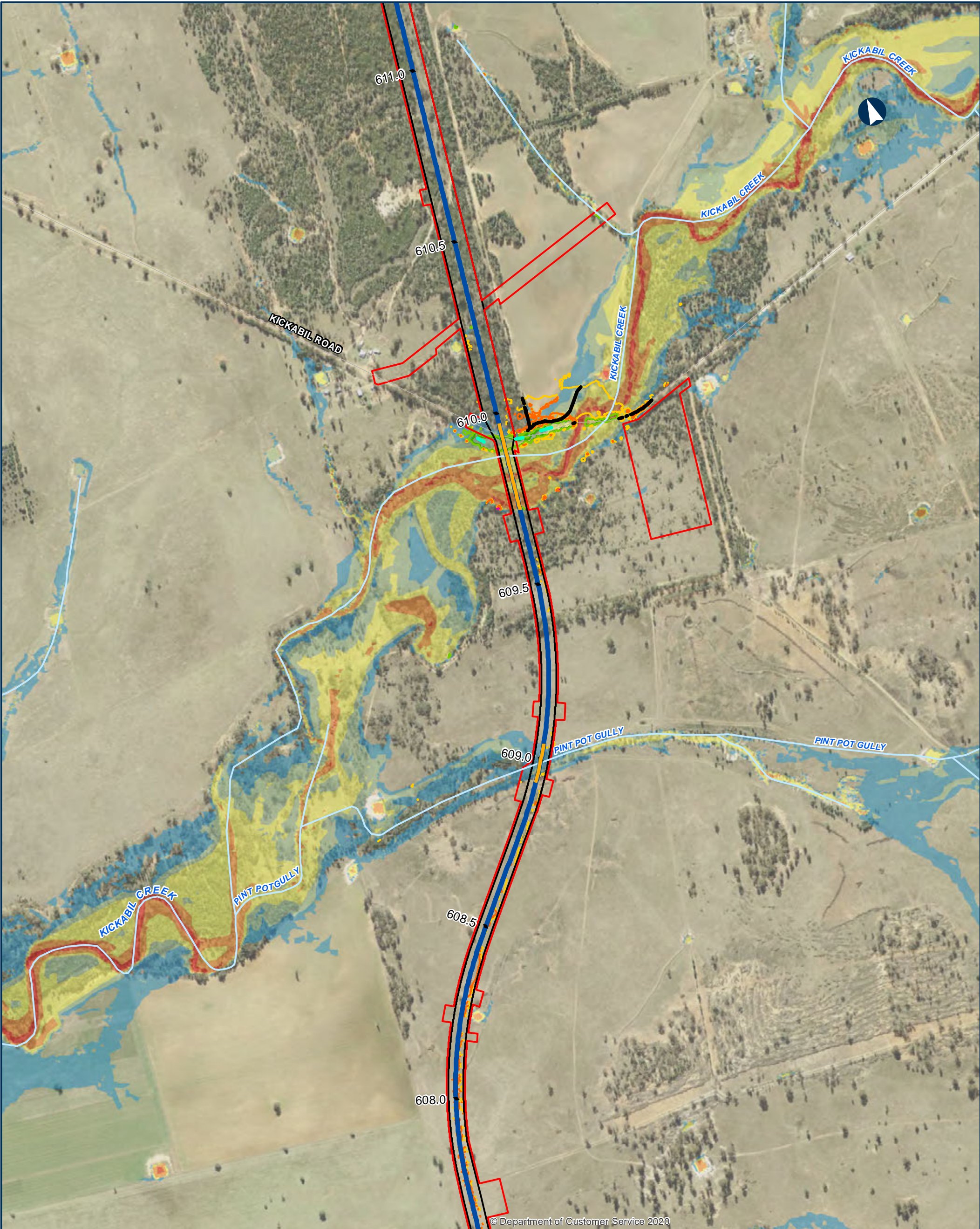
Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

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



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NARROMINE TO NARRABRI

QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.21

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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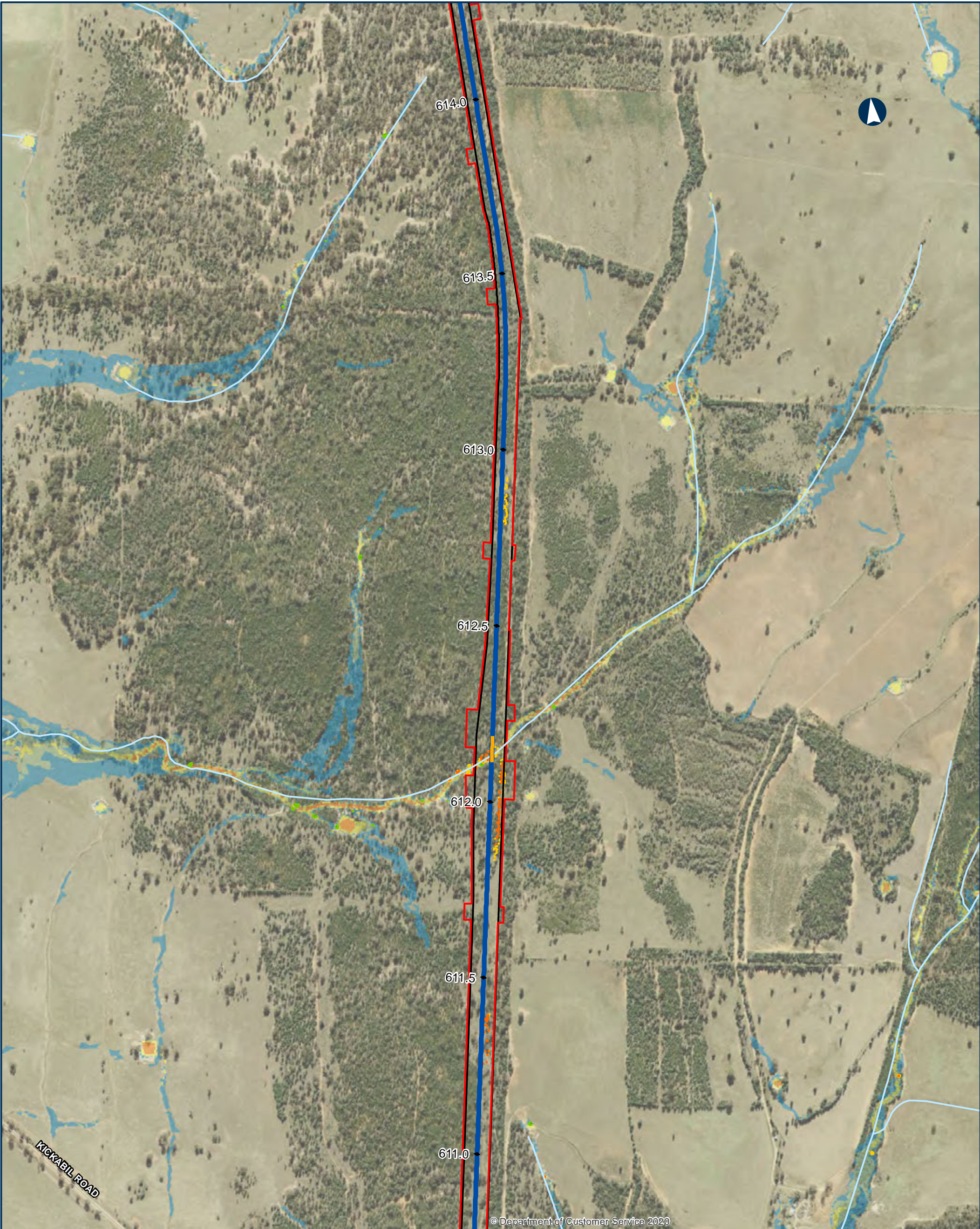
Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Bridge
 - Culvert
 - Road QDL departure
 - Alignment
 - Local road
 - Watercourse
 - The proposal
 - Rail Corridor
- Afflux contour**
- 300mm
 - 200mm
 - 100mm
 - 200mm
- 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 - 5% AEP

Appendix I - Figure 1.2.22

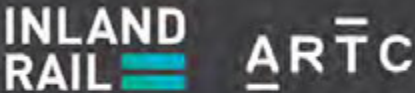
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

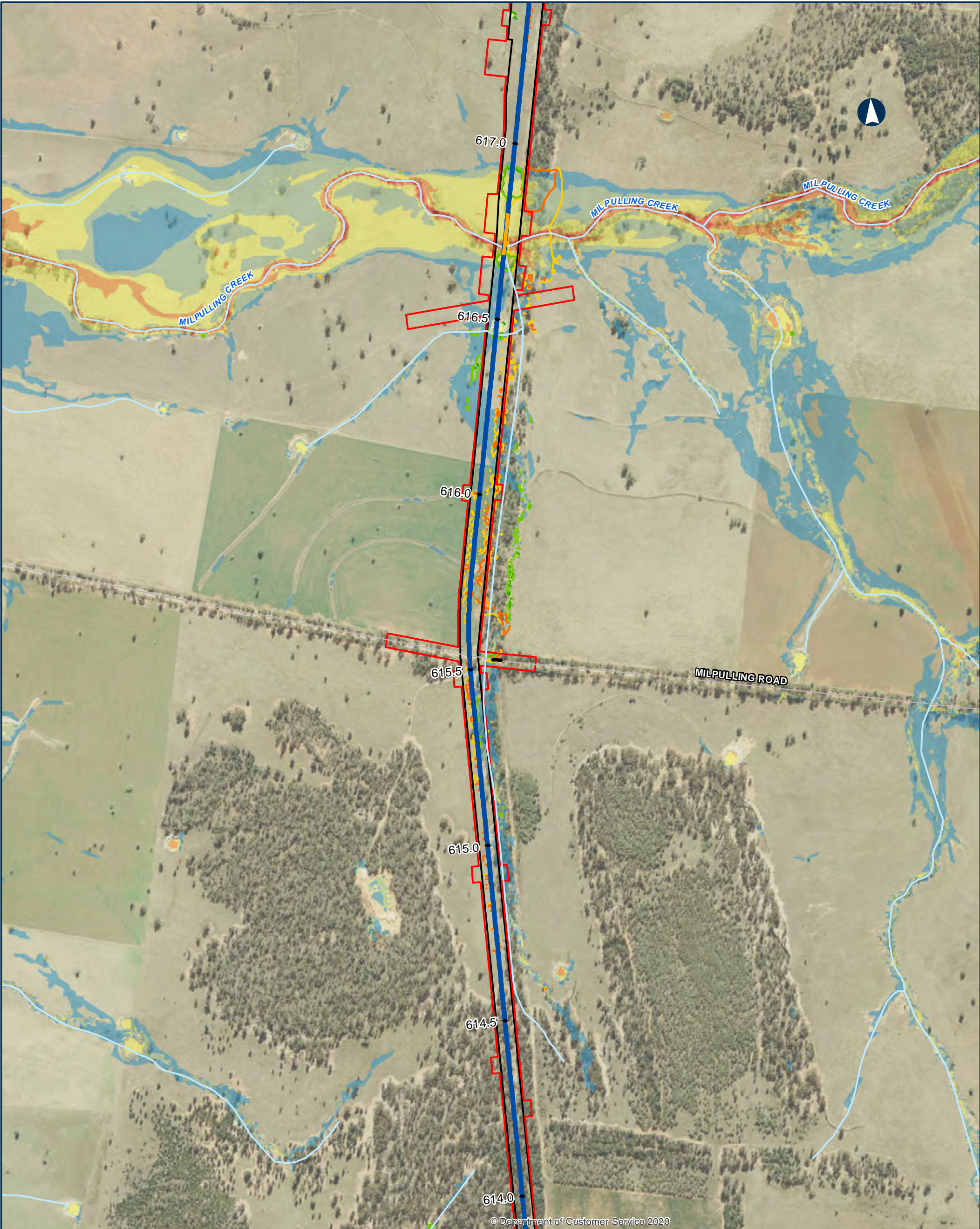
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Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

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



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NARROMINE TO NARRABRI

QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.23

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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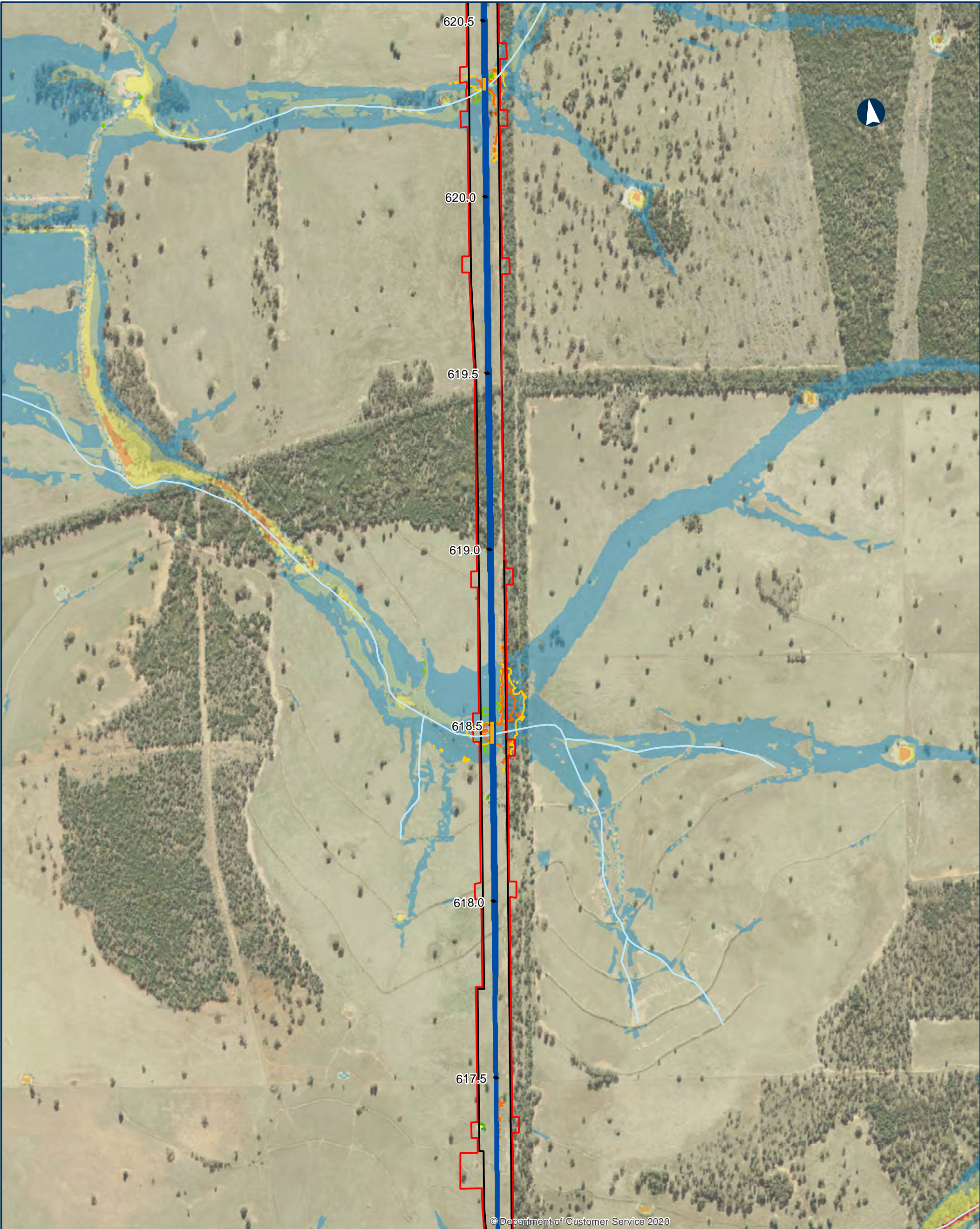
Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

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



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NARROMINE TO NARRABRI

QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.24

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

Afflux contour

- 300mm
- 200mm
- 100mm
- 200mm

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

Legend:

- Bridge
- Alignment
- Watercourse
- The proposal
- Rail Corridor



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NARROMINE TO NARRABRI

QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.25

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

Road ODL departure

Alignment

Sub arterial road

Watercourse

The proposal

Rail Corridor
- Afflux contour

-300mm

-200mm

100mm

200mm

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

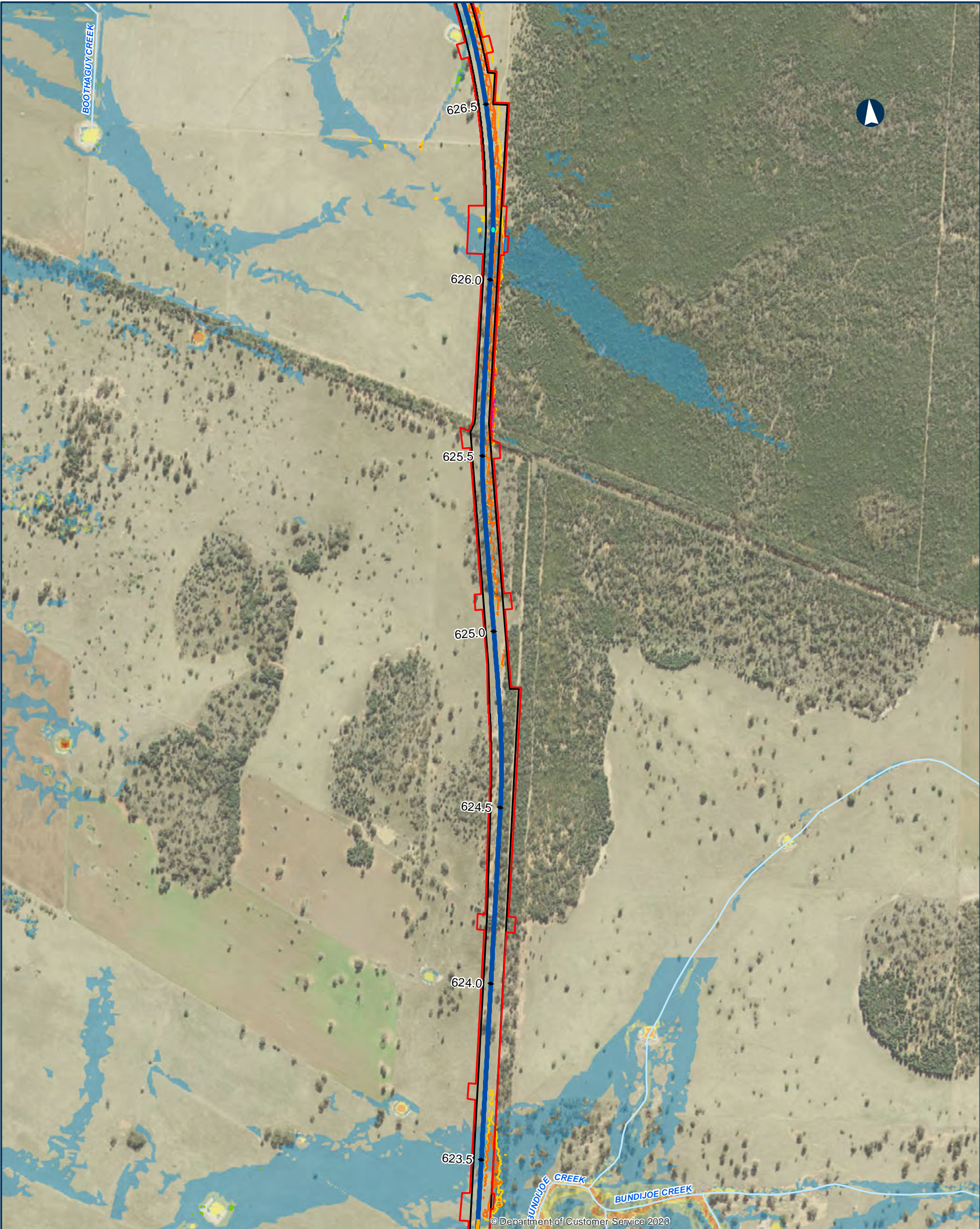
> 2.0m



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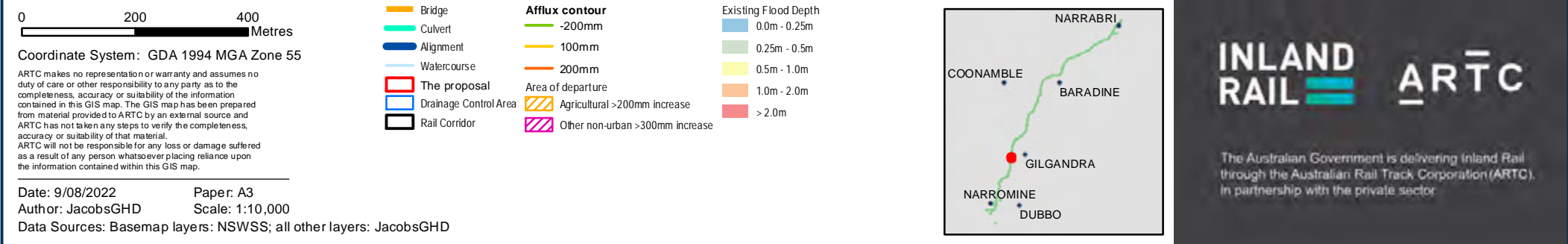
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NARROMINE TO NARRABRI

QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.26





NARROMINE TO NARRABRI

QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.27

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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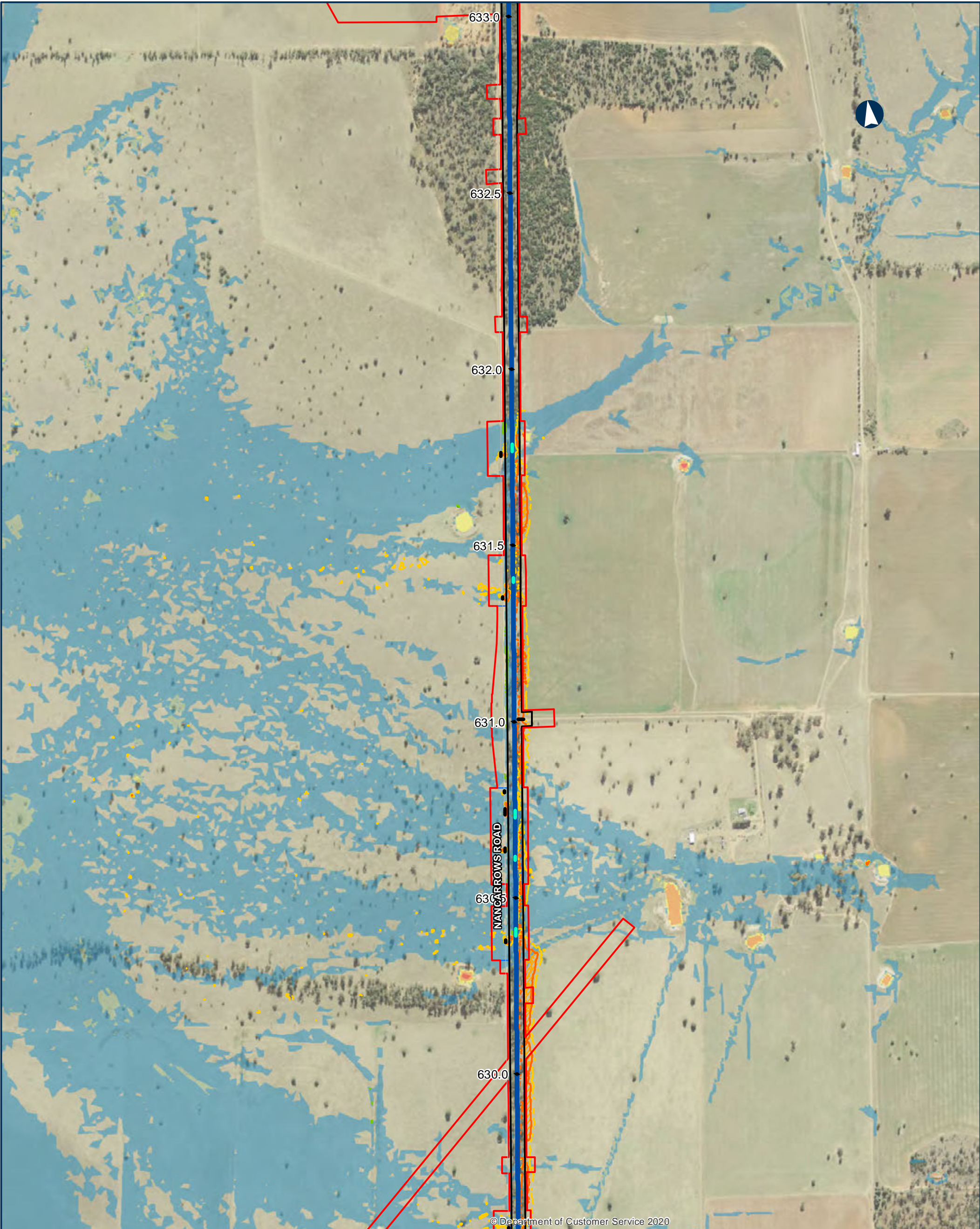
Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Culvert
 - Road ODL departure
 - Alignment
 - Local road
 - Watercourse
 - The proposal
 - Drainage Control Area
 - Rail Corridor
- Afflux contour**
- 300mm
 - 200mm
 - 100mm
 - 200mm
- 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 - 5% AEP

Appendix I - Figure 1.2.28

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

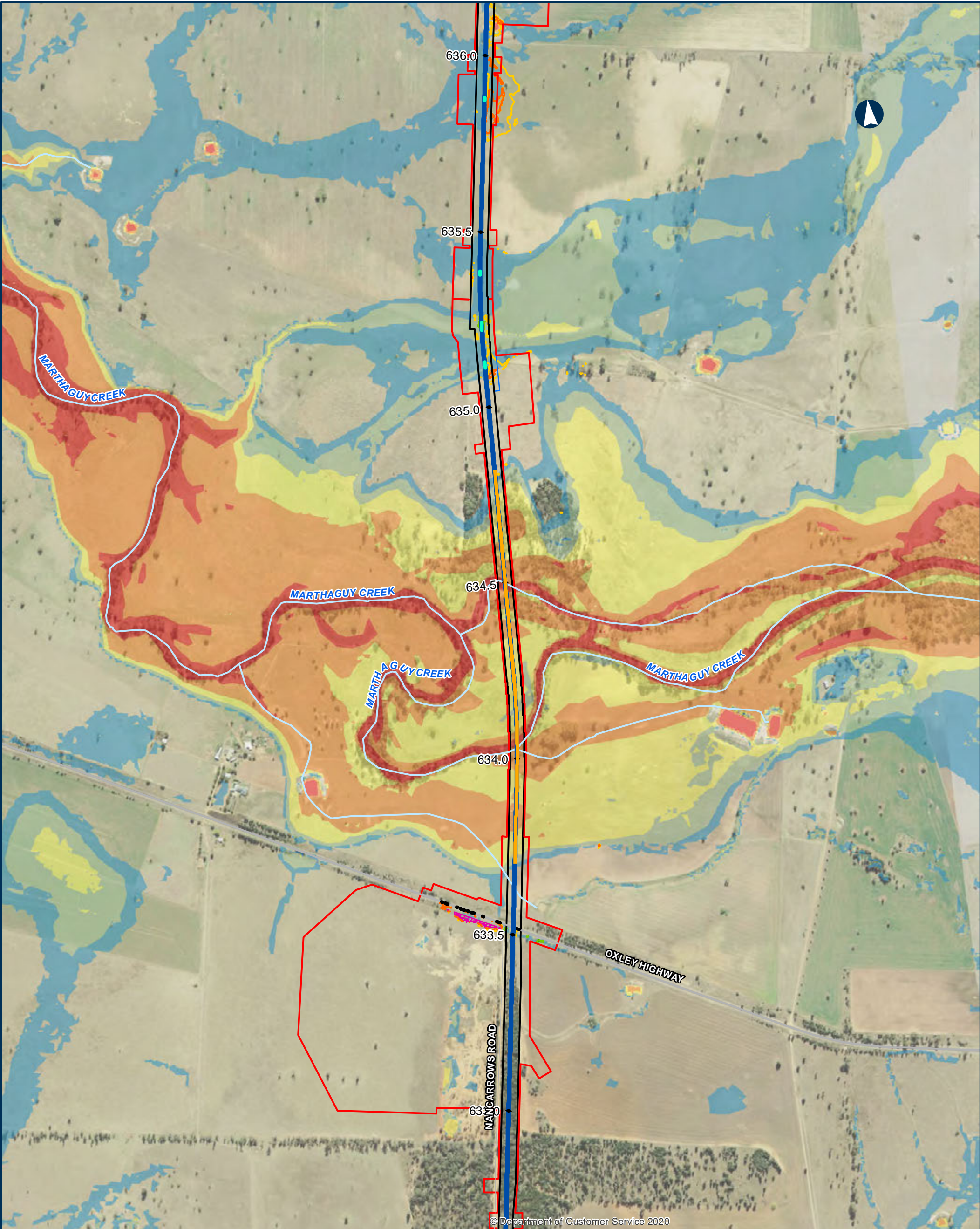
- | | | | |
|--|-----------------------|--|---------------------------------|
| | Culvert | | Afflux contour |
| | Road ODL departure | | -300mm |
| | Alignment | | -200mm |
| | Local road | | -100mm |
| | Watercourse | | 100mm |
| | The proposal | | 200mm |
| | Drainage Control Area | | Area of departure |
| | Rail Corridor | | 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 - 5% AEP

Appendix I - Figure 1.2.29

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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

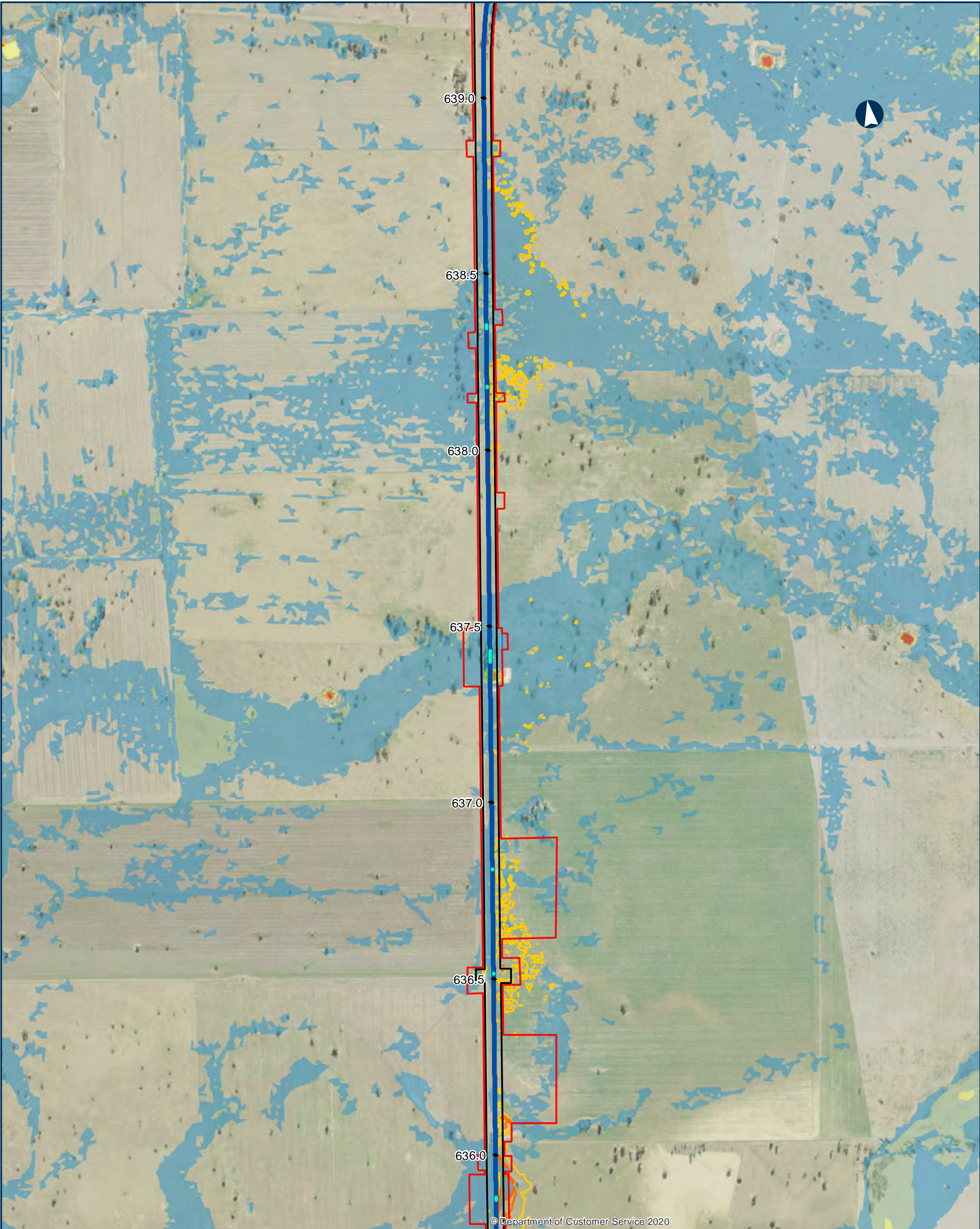
- Bridge
 - Culvert
 - Road QDL departure
 - Alignment
 - Primary road
 - Local road
 - Watercourse
 - The proposal
 - Drainage Control Area
 - Rail Corridor
- Afflux contour**
- 300mm
 - 200mm
 - 100mm
 - 200mm
 - Area of departure
 - Agricultural >200mm increase
 - Other non-urban >300mm increase

- 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 - 5% AEP

Appendix I - Figure 1.2.30

0200400

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

Culvert

Alignment

Watercourse

The proposal

Drainage Control Area

Rail Corridor

Afflux contour

-300mm

-200mm

100mm

200mm

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

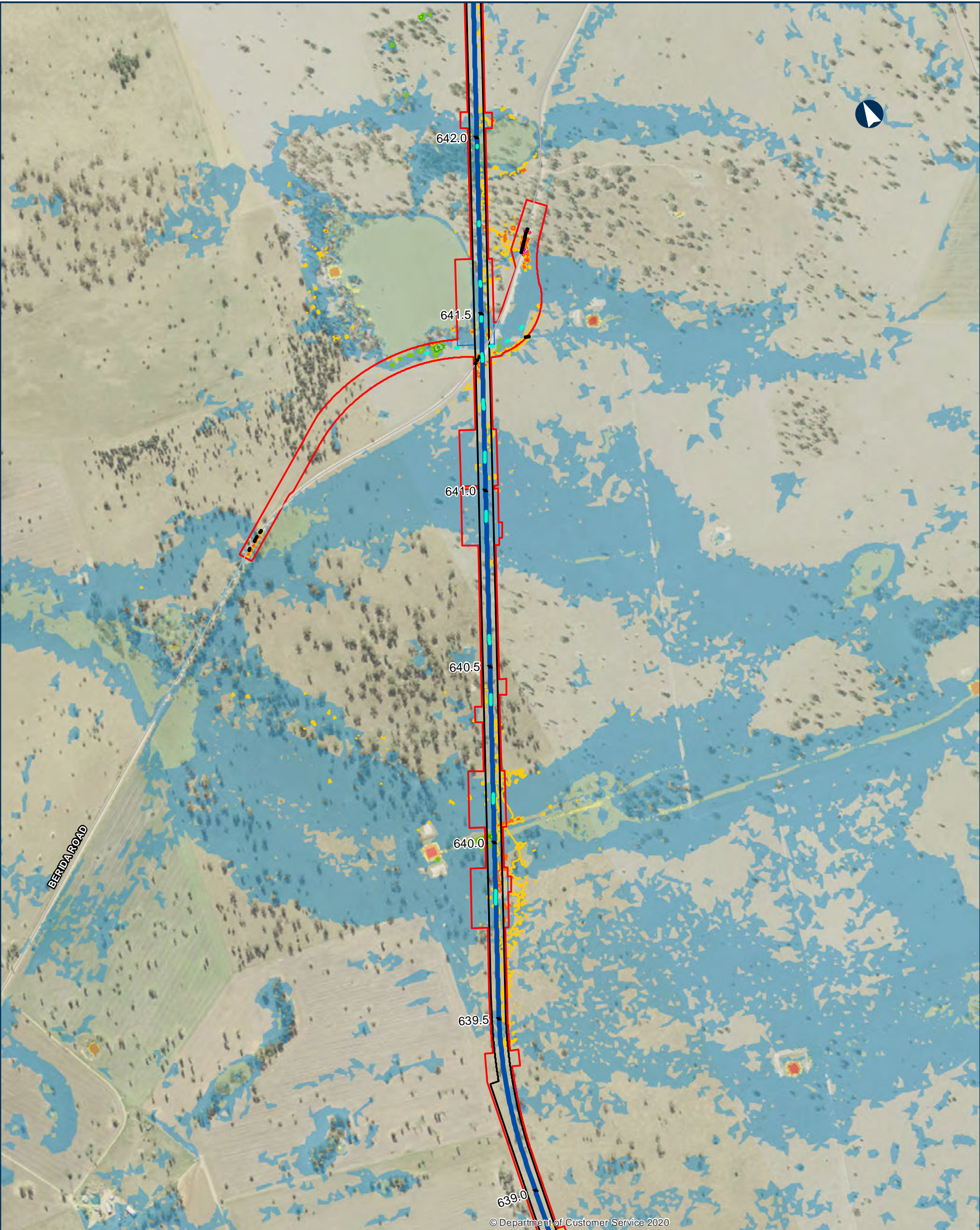
DUBBO

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NARROMINE TO NARRABRI

QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.31

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 ODL departure
 - Alignment
 - Sub arterial road
 - Watercourse
 - The proposal
 - Drainage Control Area
 - Rail Corridor
- Afflux contour**
- 300mm
 - 200mm
 - 100mm
 - 200mm
- 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 - 5% AEP

Appendix I - Figure 1.2.32

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

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

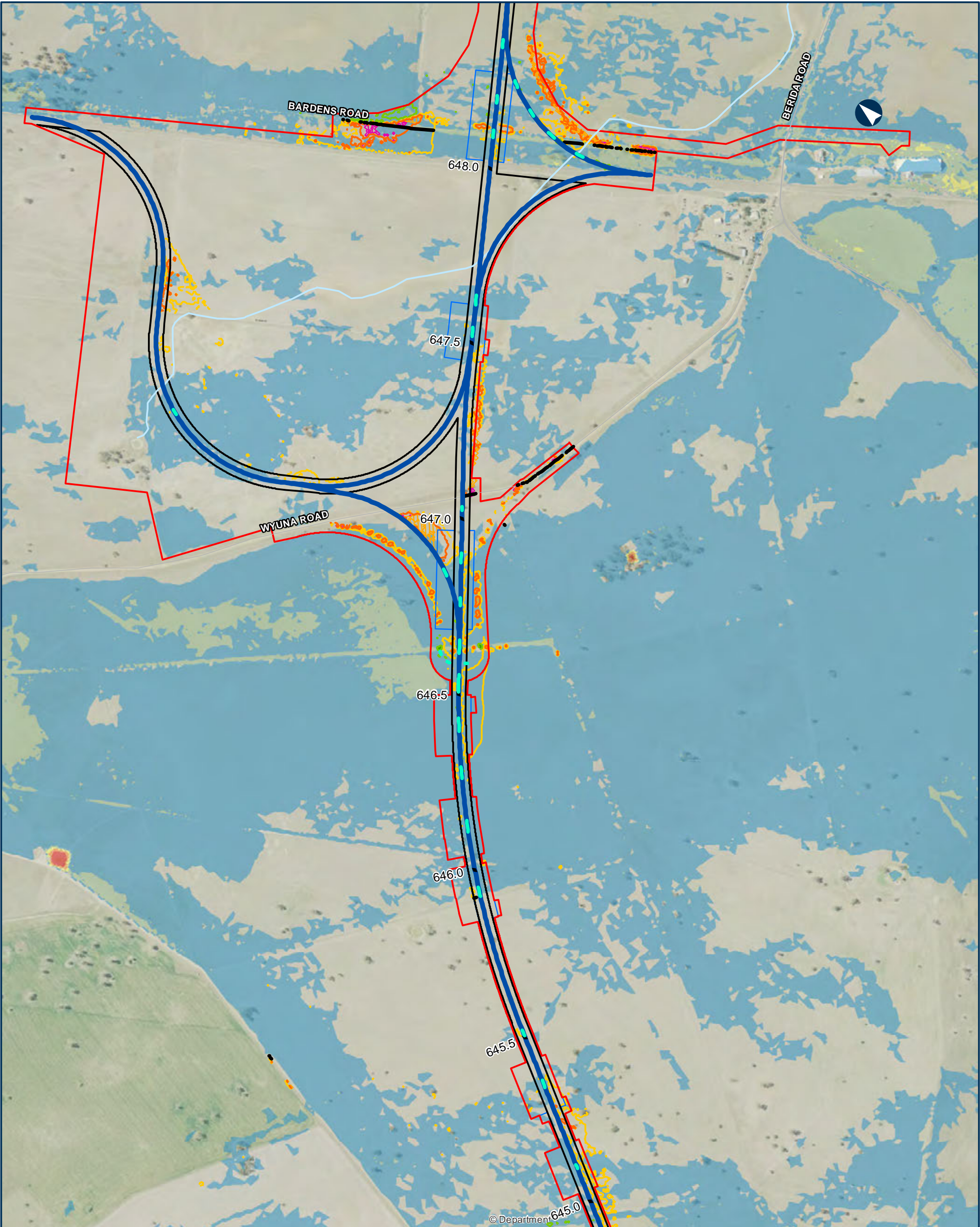
DUBBO

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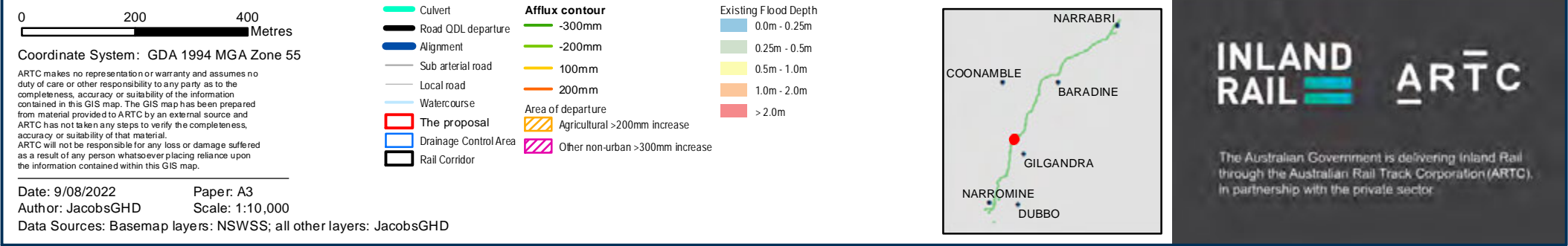
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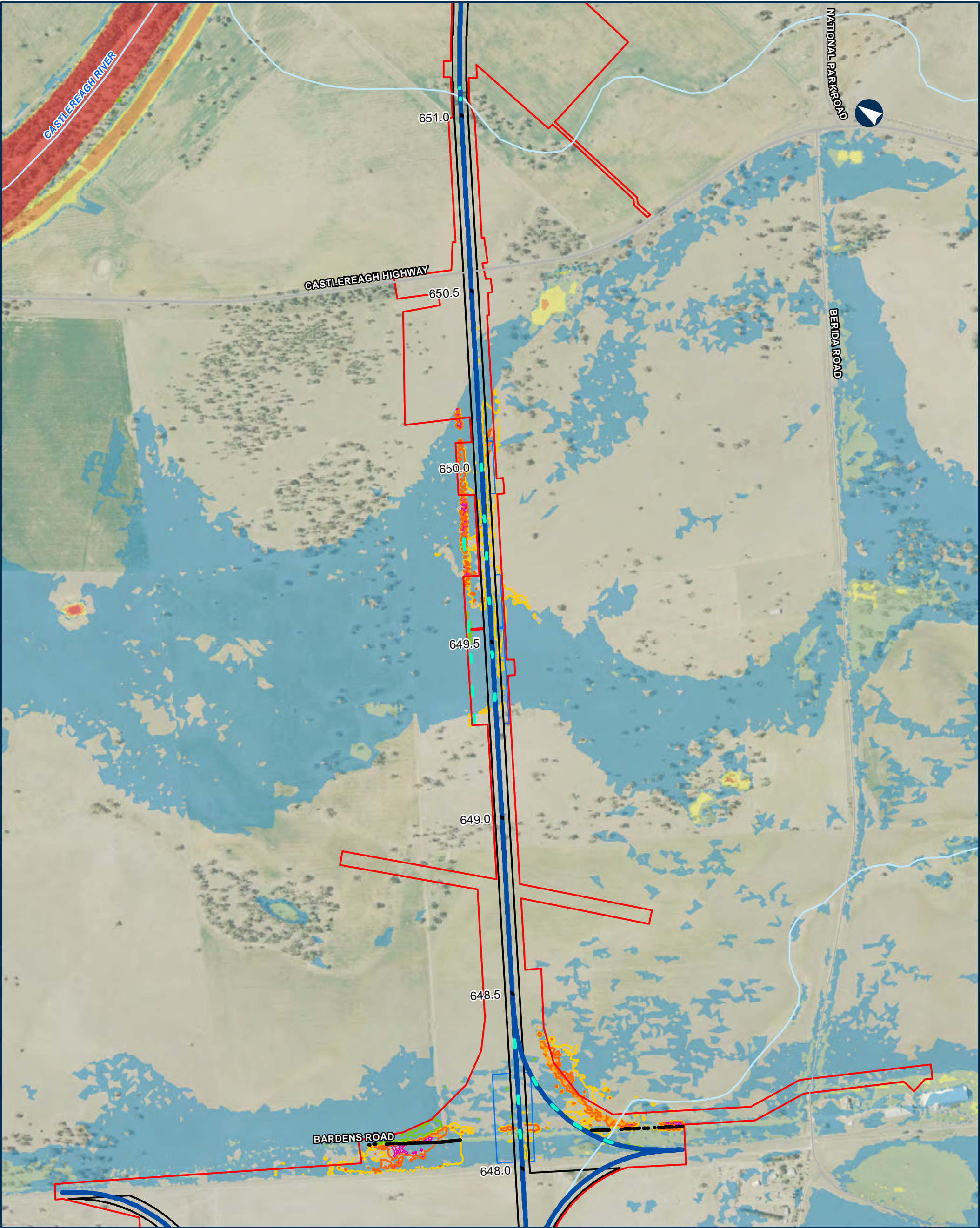


NARROMINE TO NARRABRI

QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.33





NARROMINE TO NARRABRI QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.34

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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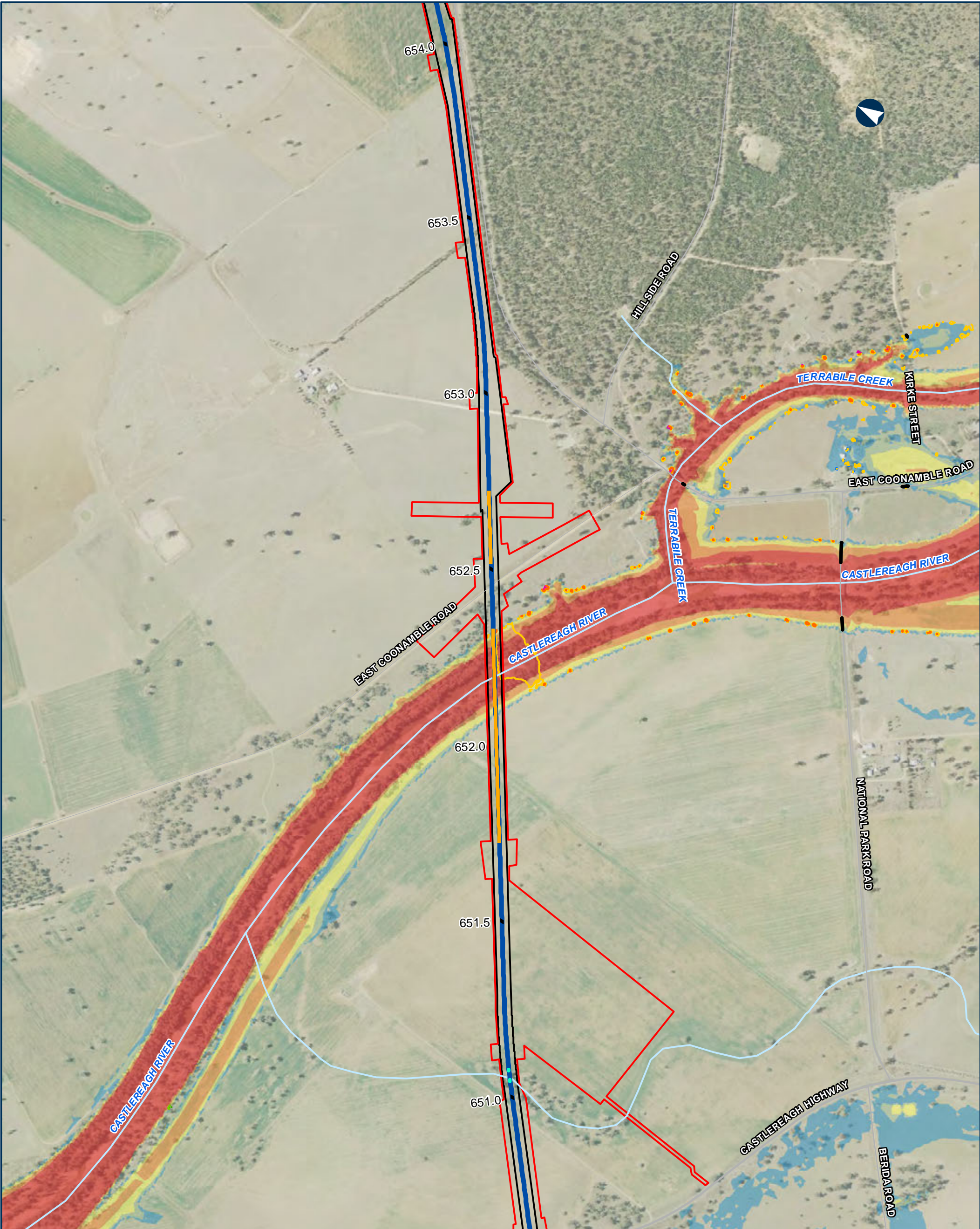
Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- | | | |
|---|---|---|
| <ul style="list-style-type: none">CulvertRoad ODL departureAlignmentPrimary roadSub arterial roadLocal roadWatercourseThe proposalDrainage Control AreaRail Corridor | Afflux contour <ul style="list-style-type: none">-300mm-200mm100mm200mmArea of departure<ul style="list-style-type: none">Agricultural >200mm increaseOther non-urban >300mm increase | 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 - 5% AEP

Appendix I - Figure 1.2.35

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

- Bridge

Culvert

Road QDL departure

Alignment

Primary road

Sub arterial road

Local road

Watercourse

The proposal

Rail Corridor
- Afflux contour

-300mm

-200mm

100mm

200mm

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

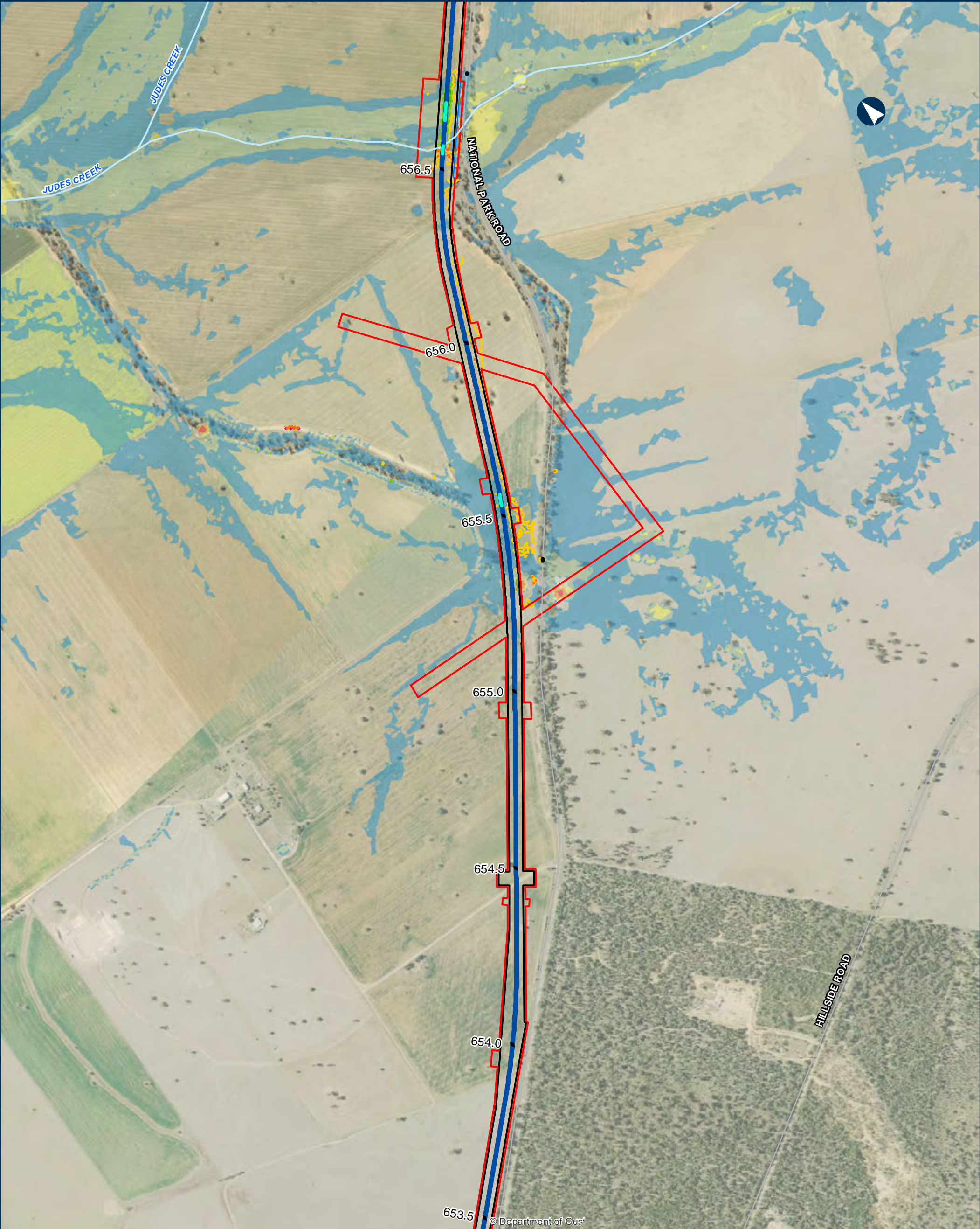
> 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.36

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 ODL departure

Alignment

Sub arterial road

Watercourse

The proposal

Drainage Control Area

Rail Corridor

Afflux contour

-300mm

-200mm

100mm

200mm

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

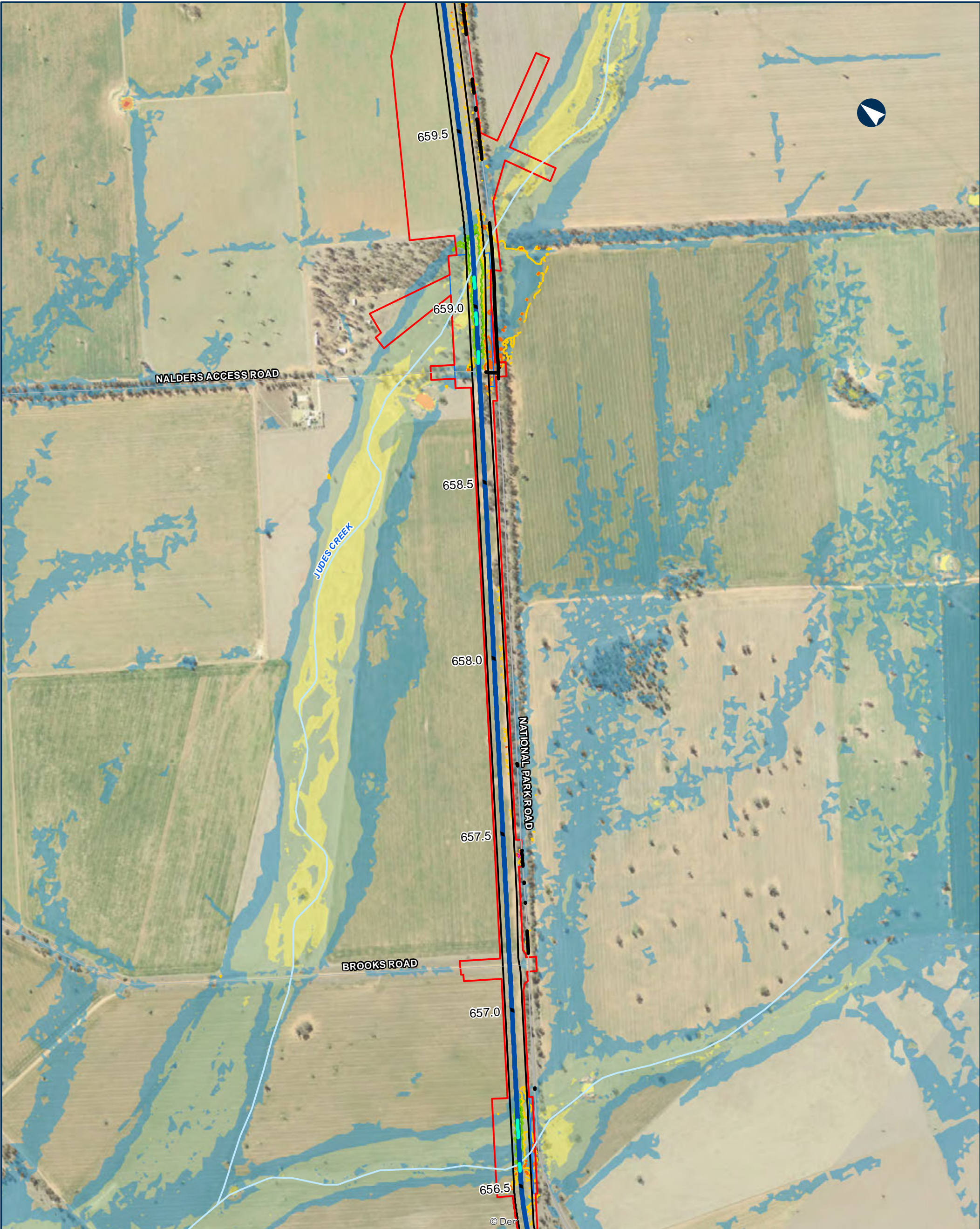
DUBBO

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NARROMINE TO NARRABRI

QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.37

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

Area of departure

Agricultural >200mm increase

Other non-urban >300mm increase

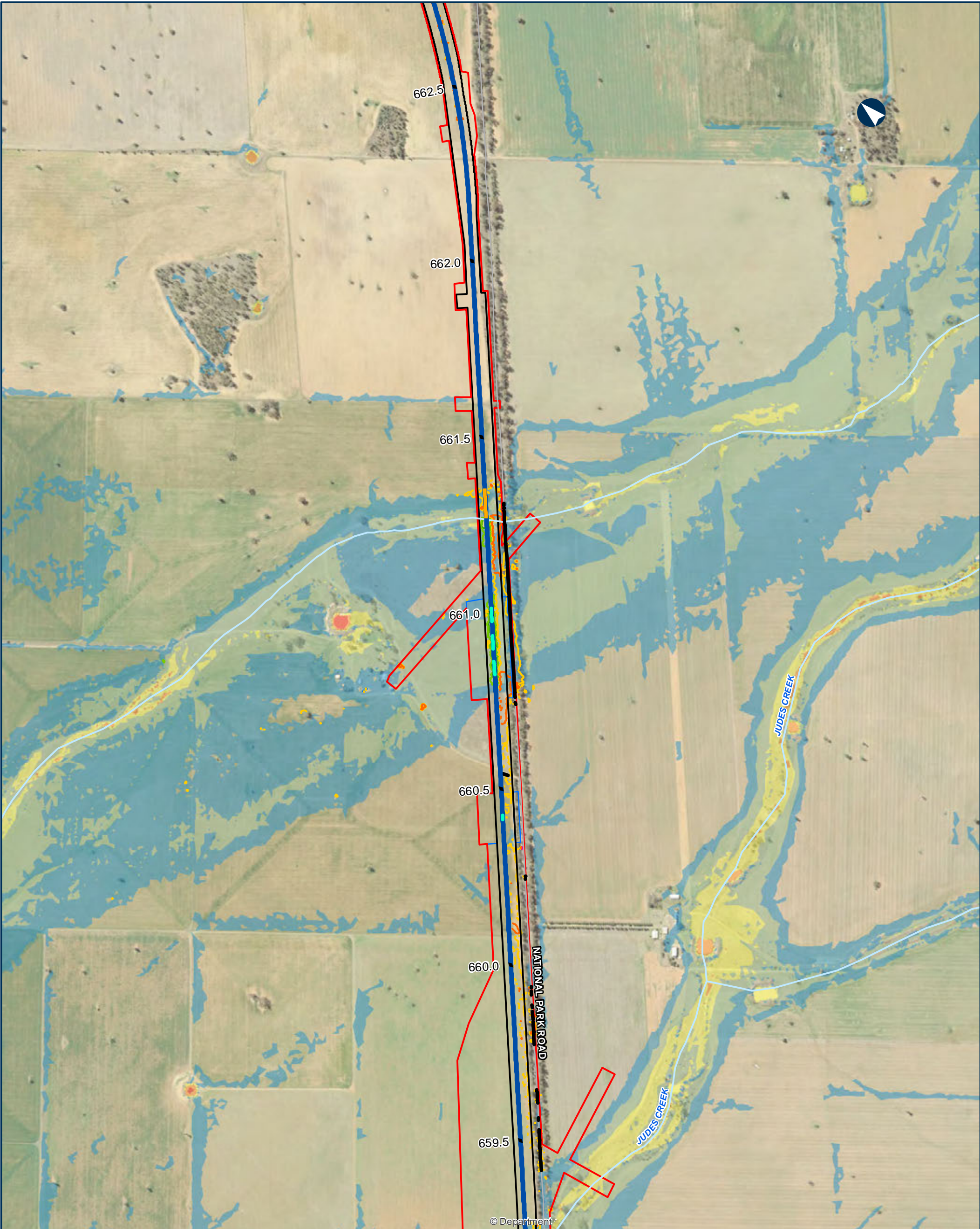
- Existing Flood Depth
- 0.0m - 0.25m
- 0.25m - 0.5m
- 0.5m - 1.0m
- 1.0m - 2.0m
- > 2.0m



INLAND RAIL

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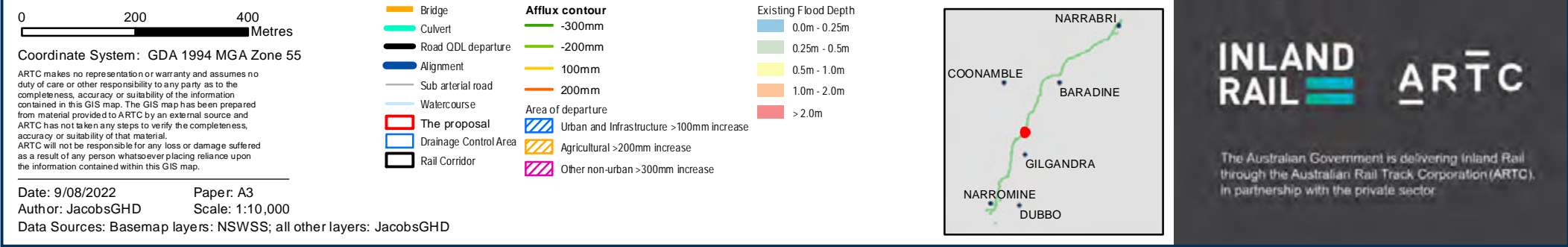
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC), in partnership with the private sector

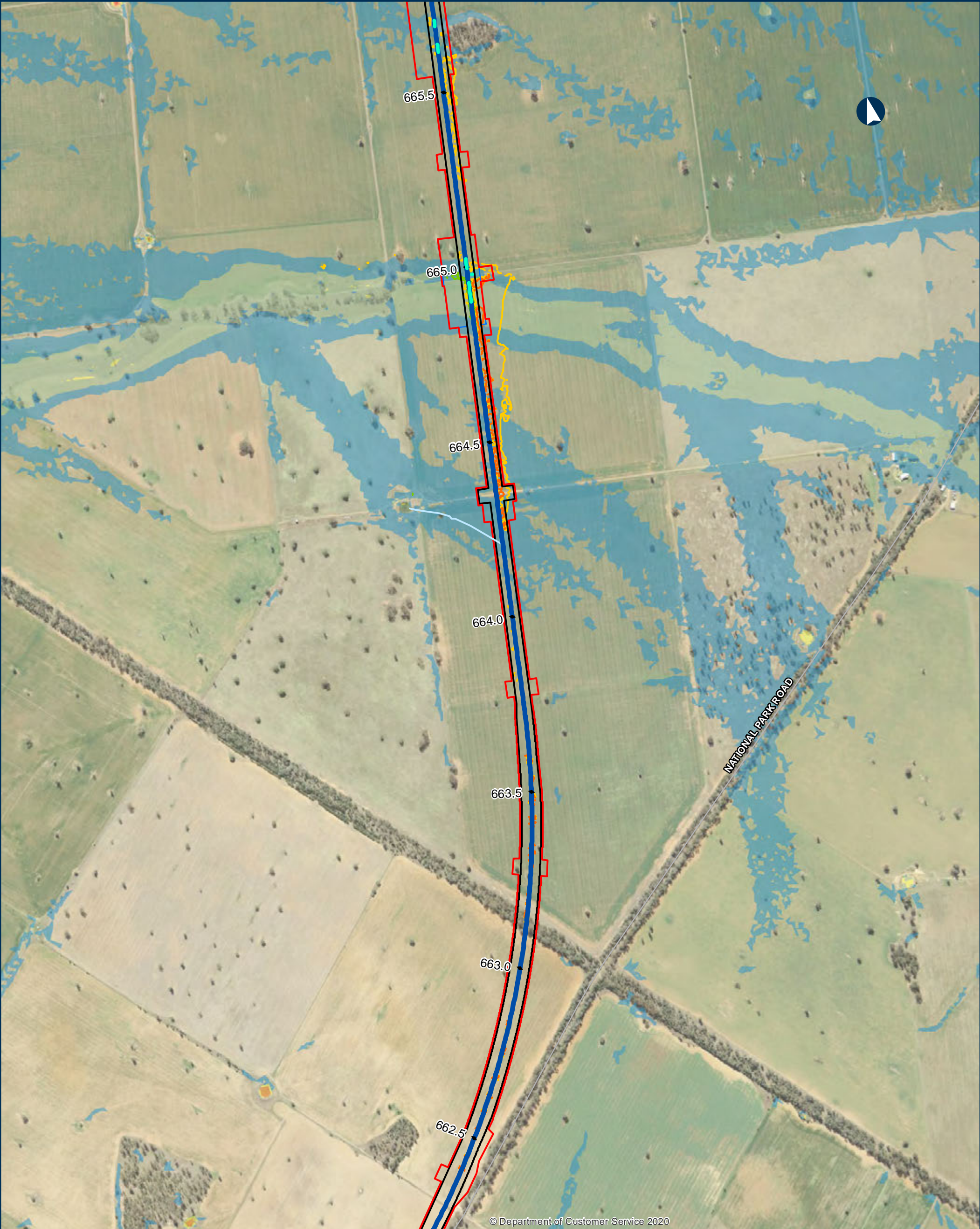


NARROMINE TO NARRABRI

QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.38





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NARROMINE TO NARRABRI

QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.39

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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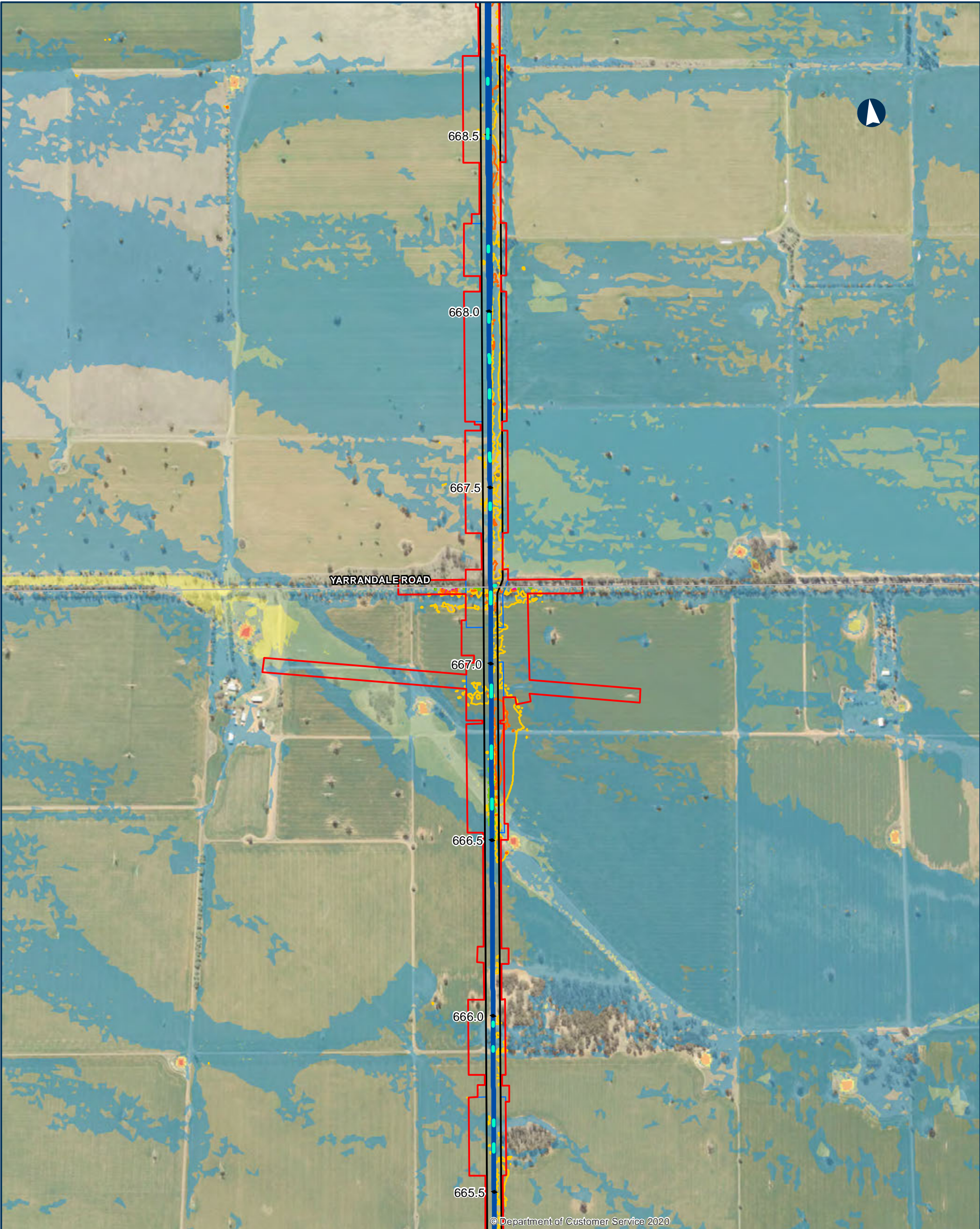
Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Culvert
 - Alignment
 - Sub arterial road
 - Watercourse
 - The proposal
 - Drainage Control Area
 - Rail Corridor
- Afflux contour**
- 300mm
 - 200mm
 - 100mm
 - 200mm
- 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 - 5% AEP

Appendix I - Figure 1.2.40

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

Alignment

Sub arterial road

Watercourse

The proposal

Drainage Control Area

Rail Corridor

Afflux contour

-300mm

-200mm

100mm

200mm

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

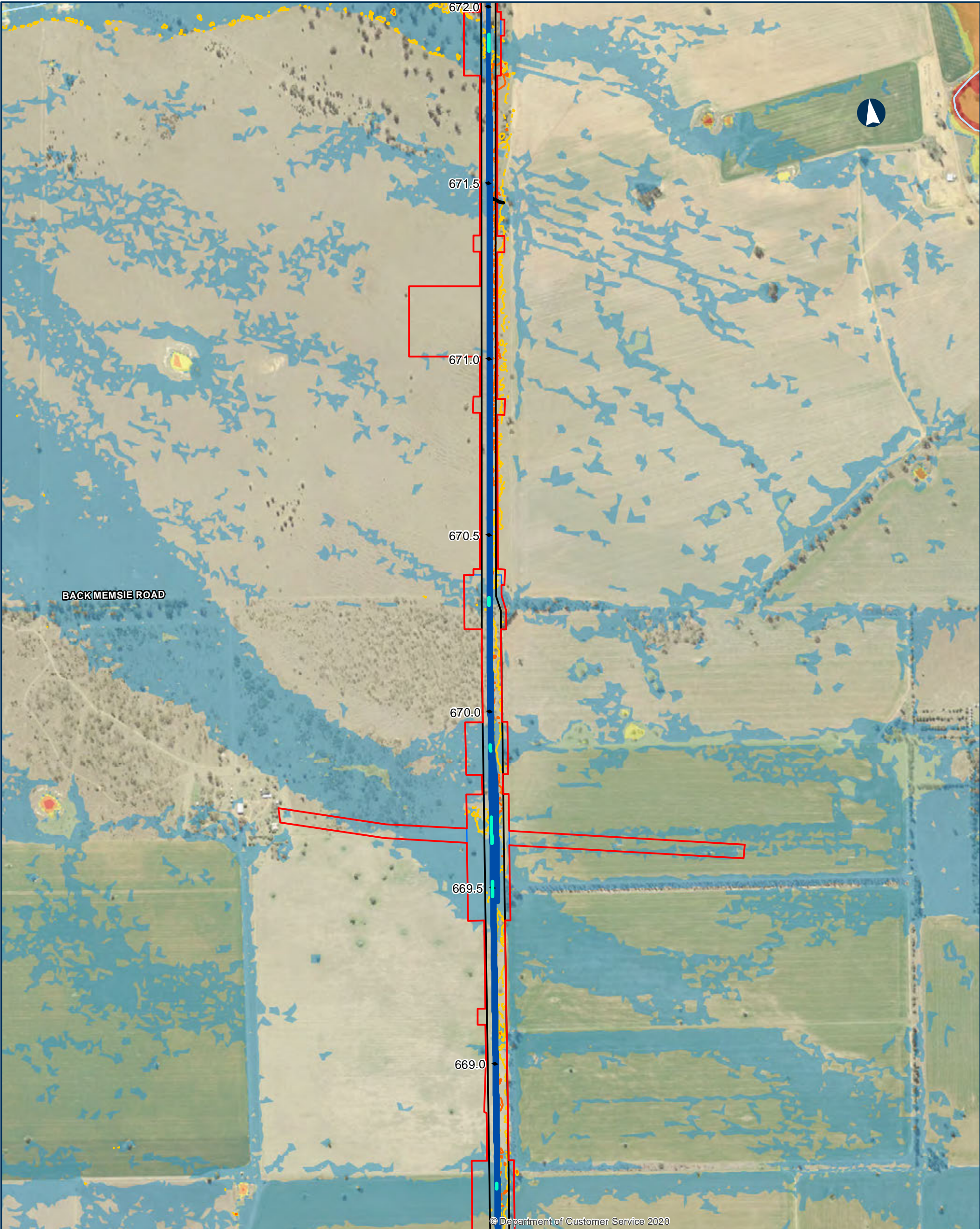
DUBBO

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NARROMINE TO NARRABRI

QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.41

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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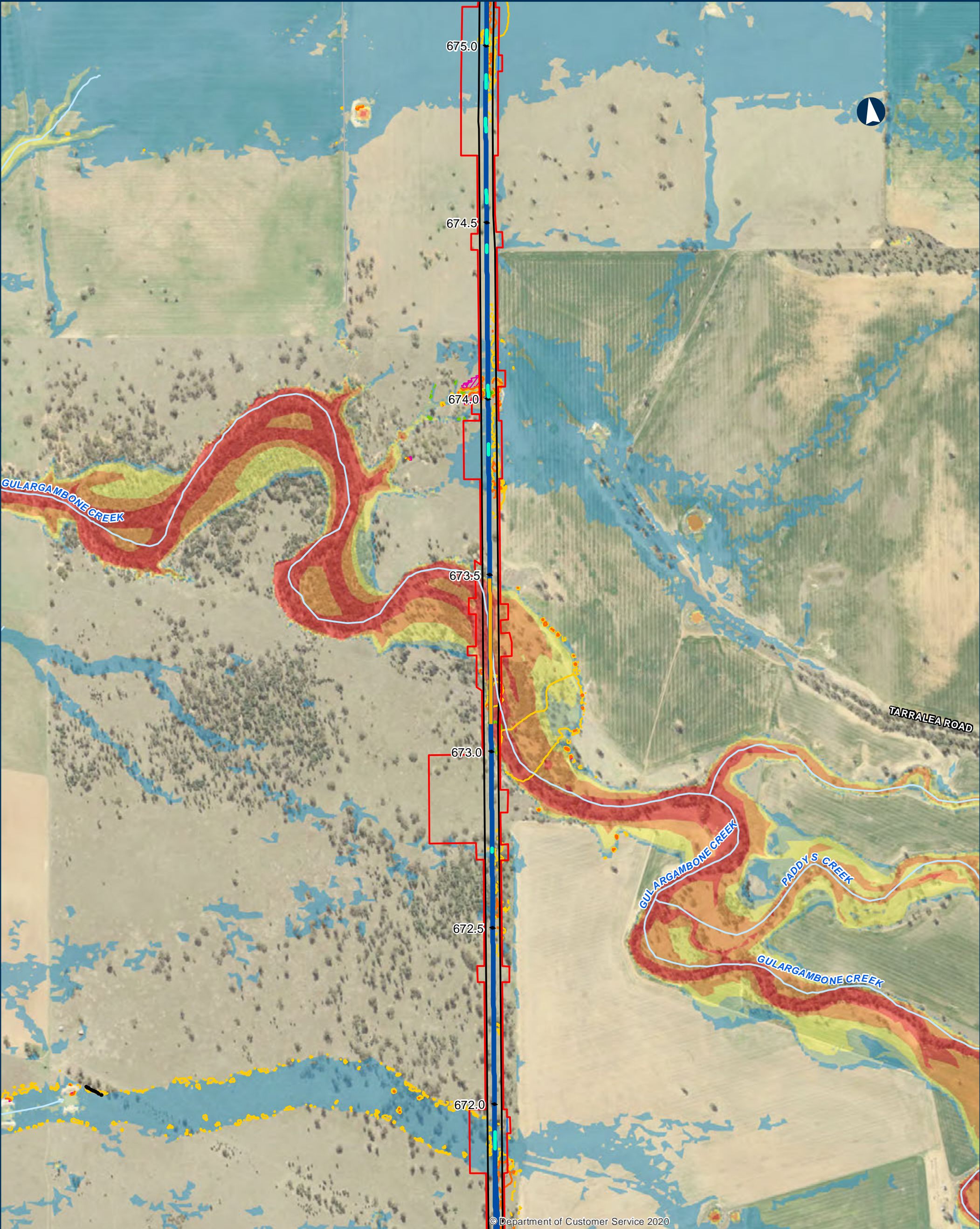
Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Afflux contour**
- 100mm
 - 200mm
 - 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
- Legend**
- Culvert
 - Road QDL departure
 - Alignment
 - Watercourse
 - The proposal
 - Drainage Control Area
 - Rail Corridor



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NARROMINE TO NARRABRI

QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.42

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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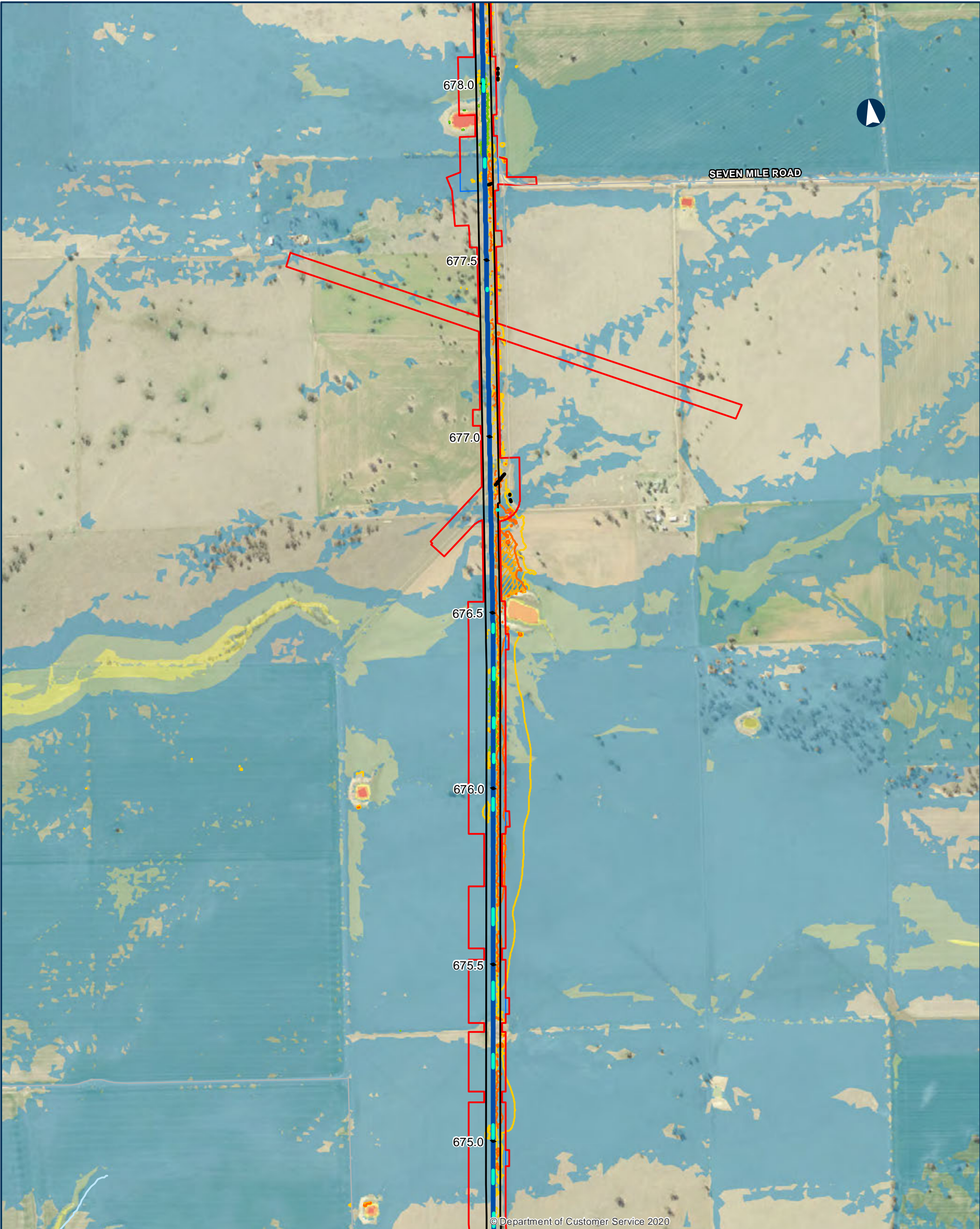
Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

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



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QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.43

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 ODL departure

Alignment

Sub arterial road

Local road

Watercourse

The proposal

Drainage Control Area

Rail Corridor

Afflux contour

-300mm

-200mm

100mm

200mm

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

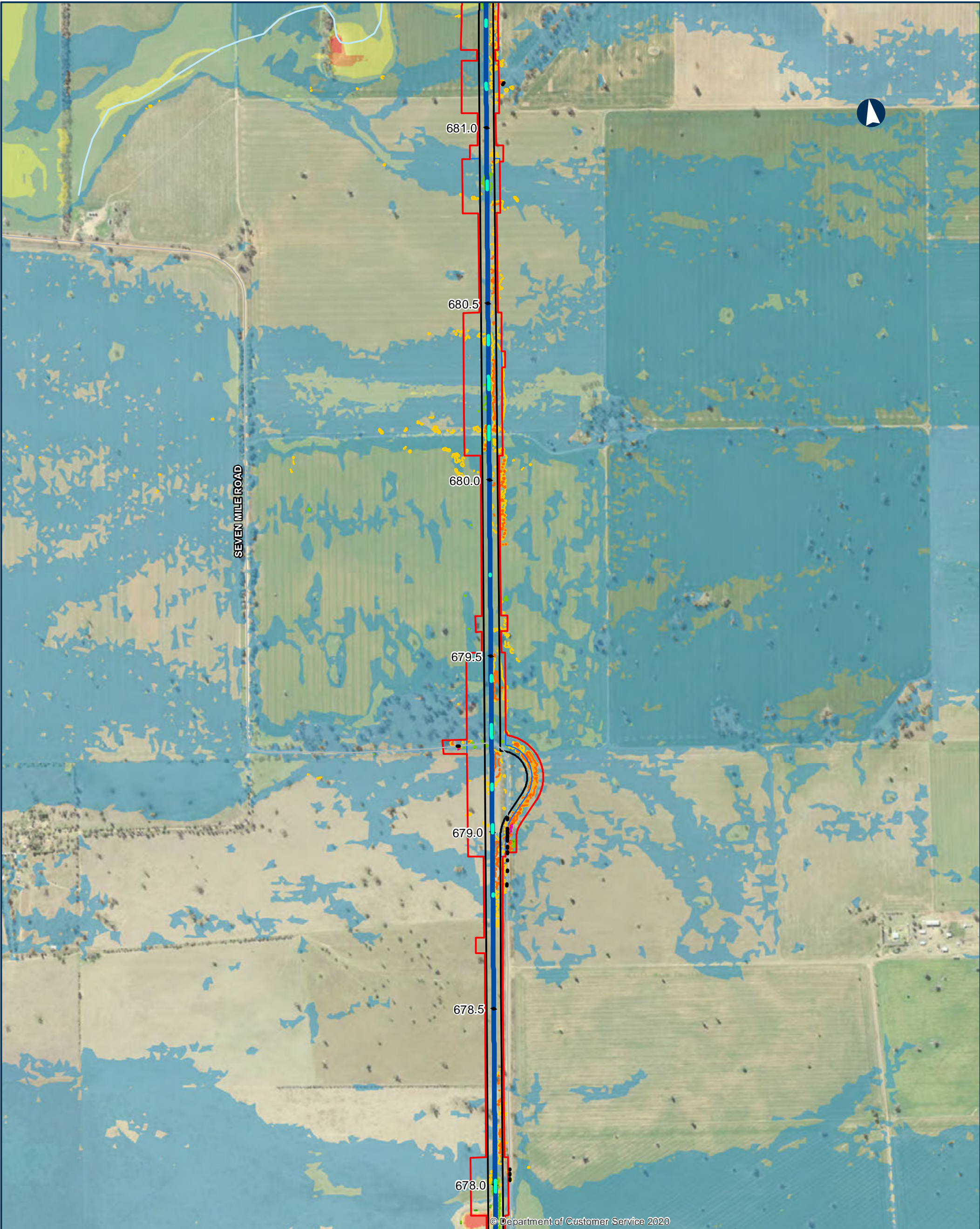
1.0m - 2.0m

> 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.44

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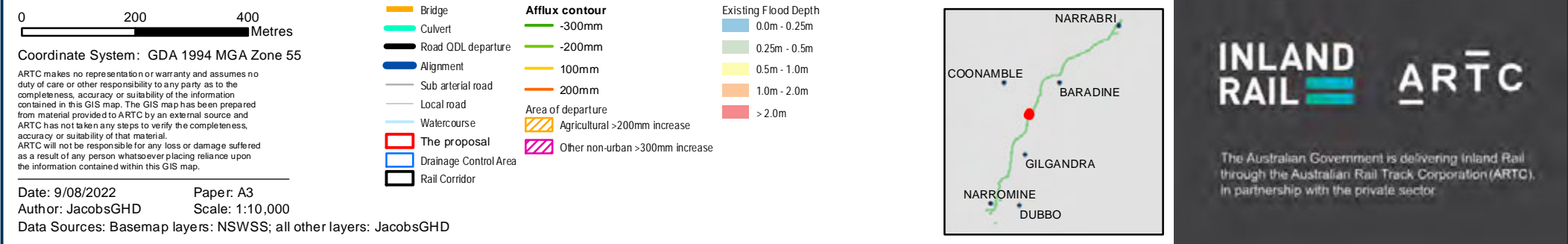
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC), in partnership with the private sector.

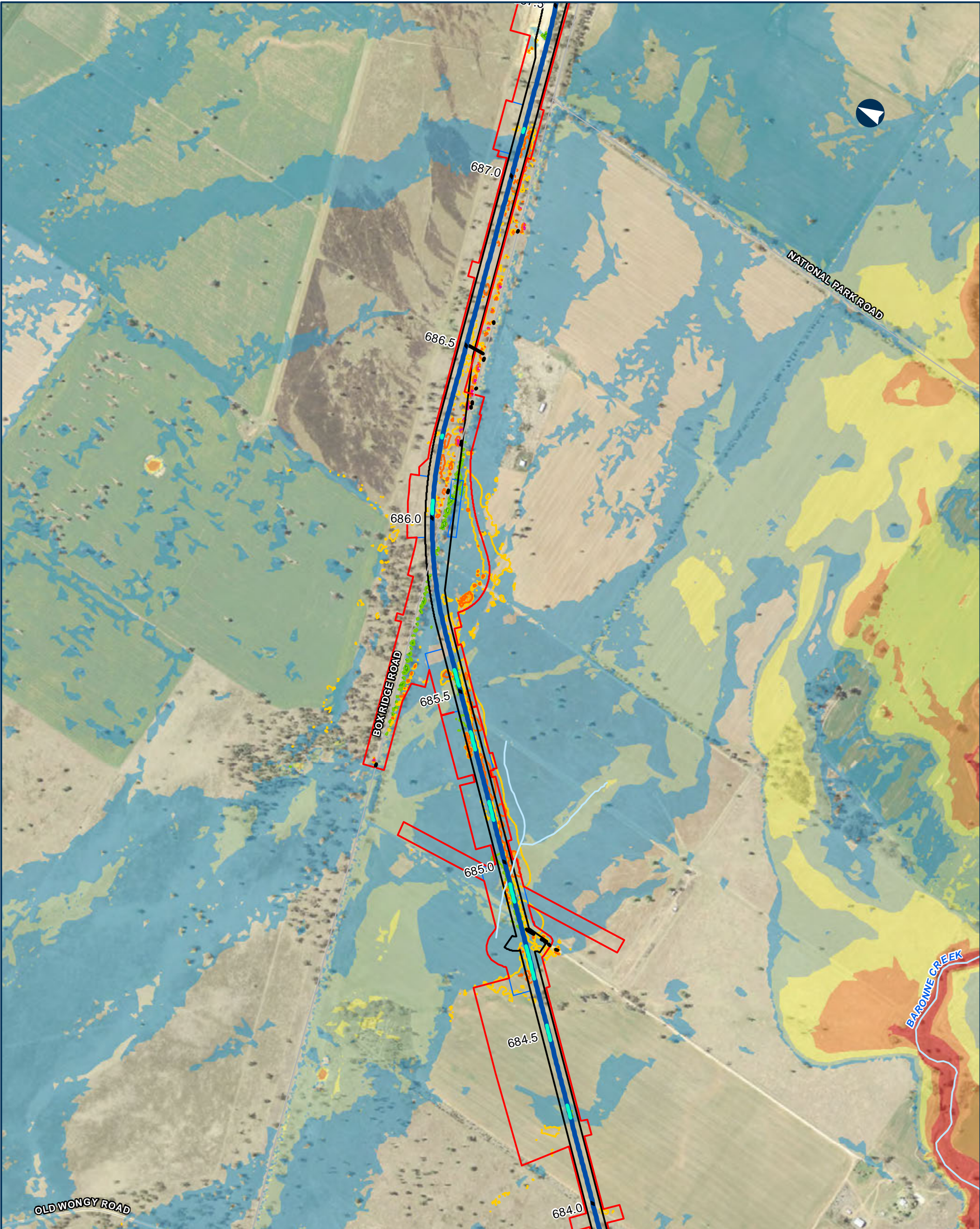


NARROMINE TO NARRABRI

QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.45





NARROMINE TO NARRABRI

QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.46

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 ODL departure

Alignment

Sub arterial road

Local road

Watercourse

The proposal

Drainage Control Area

Rail Corridor
- Afflux contour

-300mm

-200mm

100mm

200mm

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

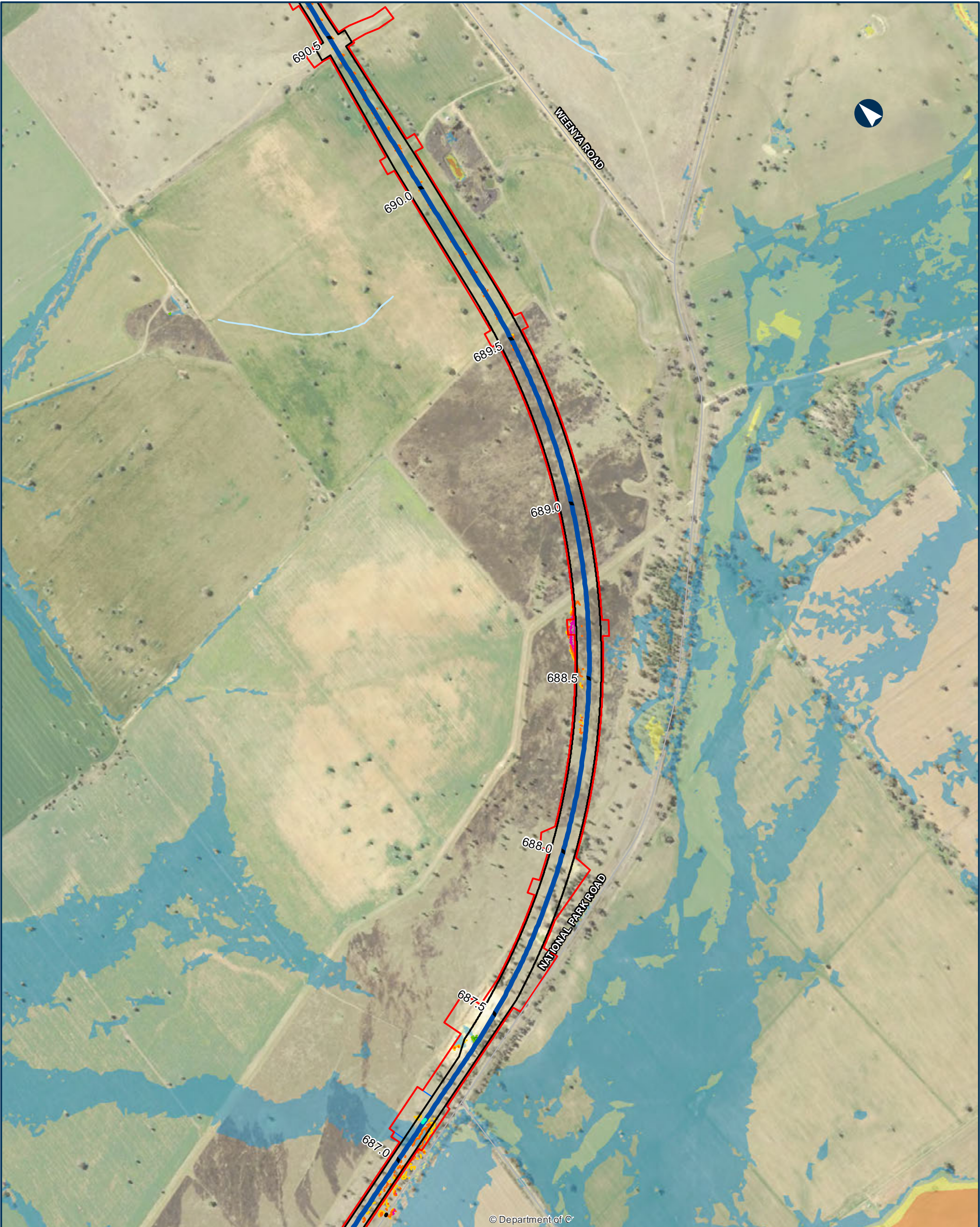
> 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.47

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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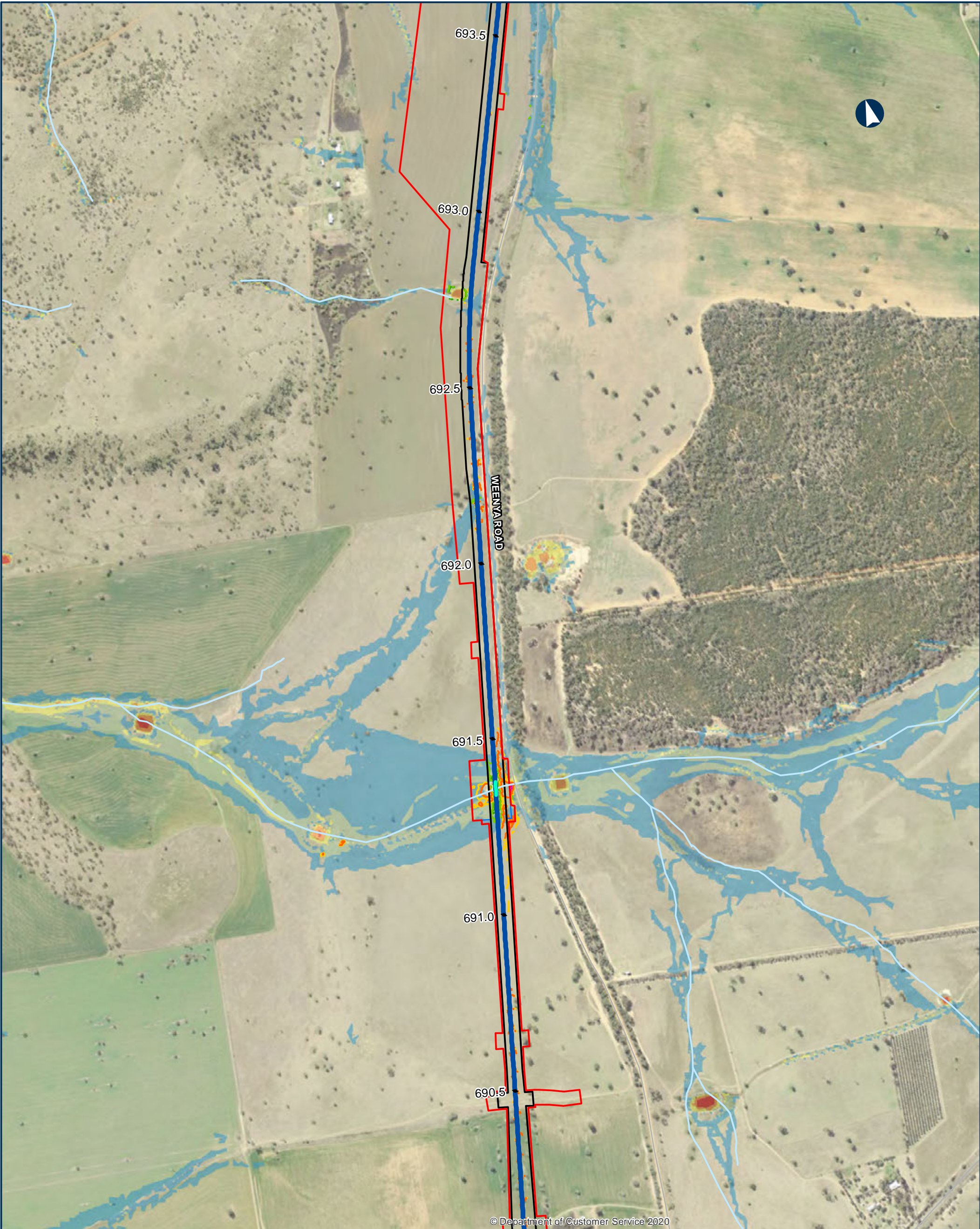
Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

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



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NARROMINE TO NARRABRI

QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.48

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

Sub arterial road

Watercourse

The proposal

Drainage Control Area

Rail Corridor

Afflux contour

-300mm

-200mm

100mm

200mm

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

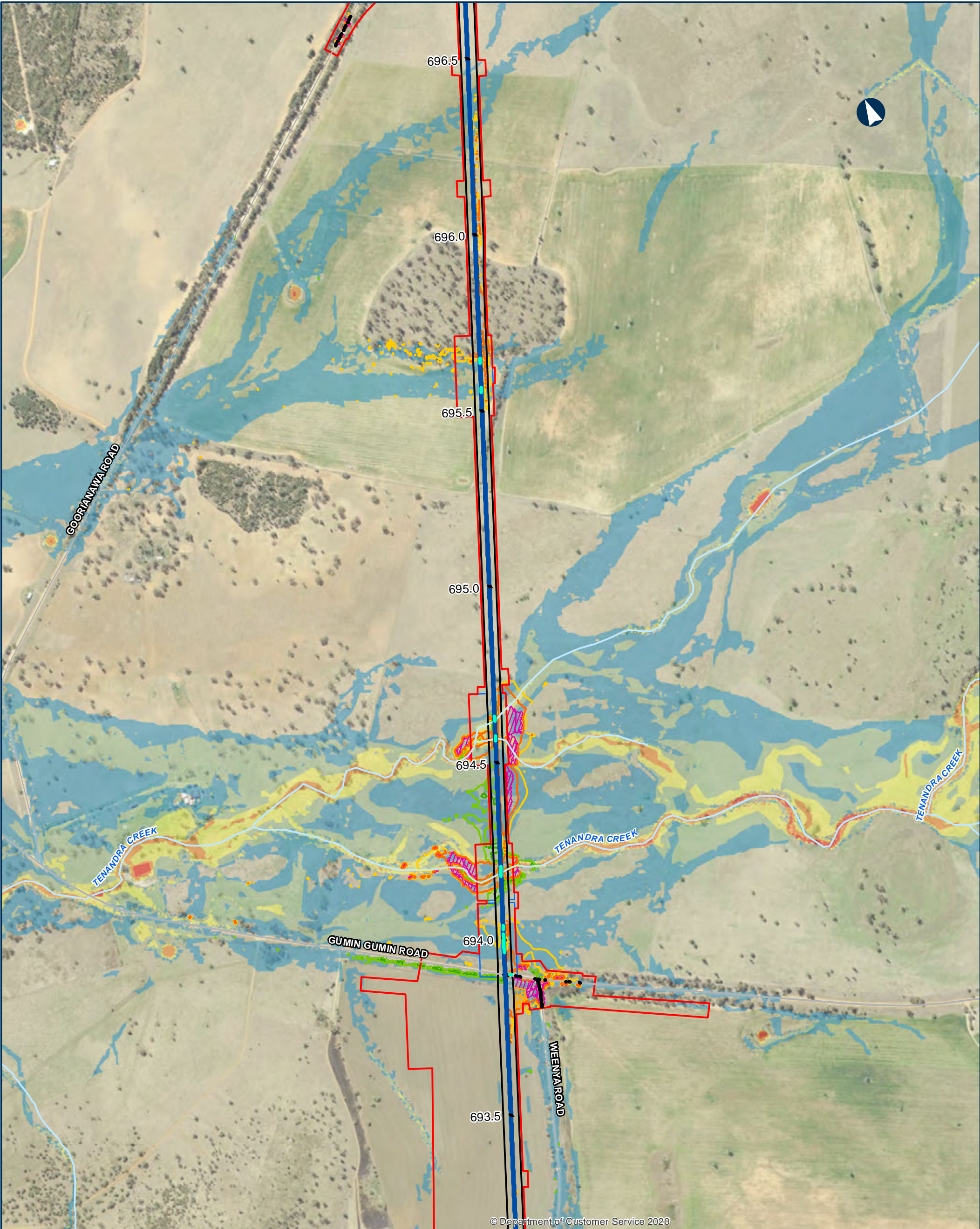
1.0m - 2.0m

> 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.49

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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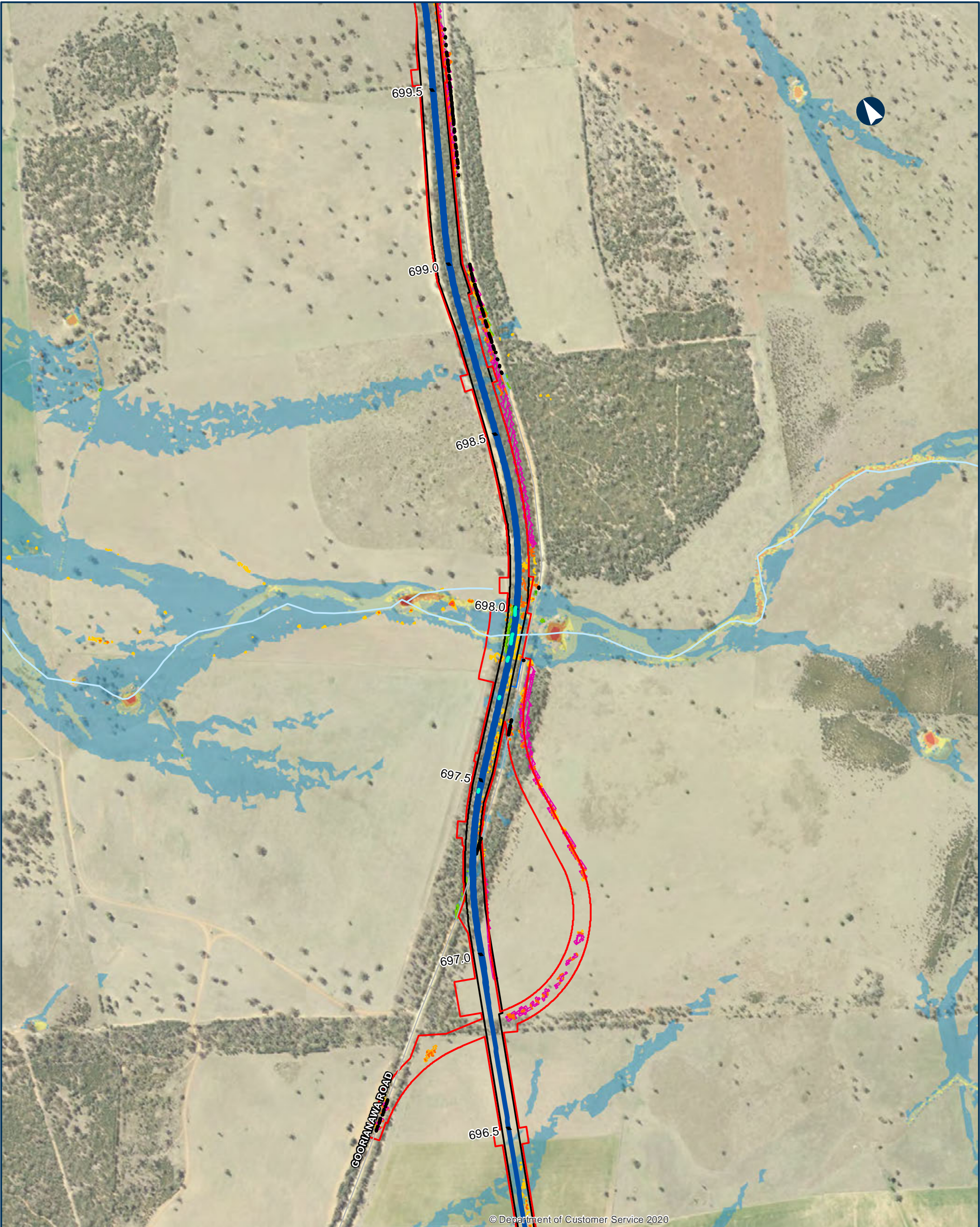
Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

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



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QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.50

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

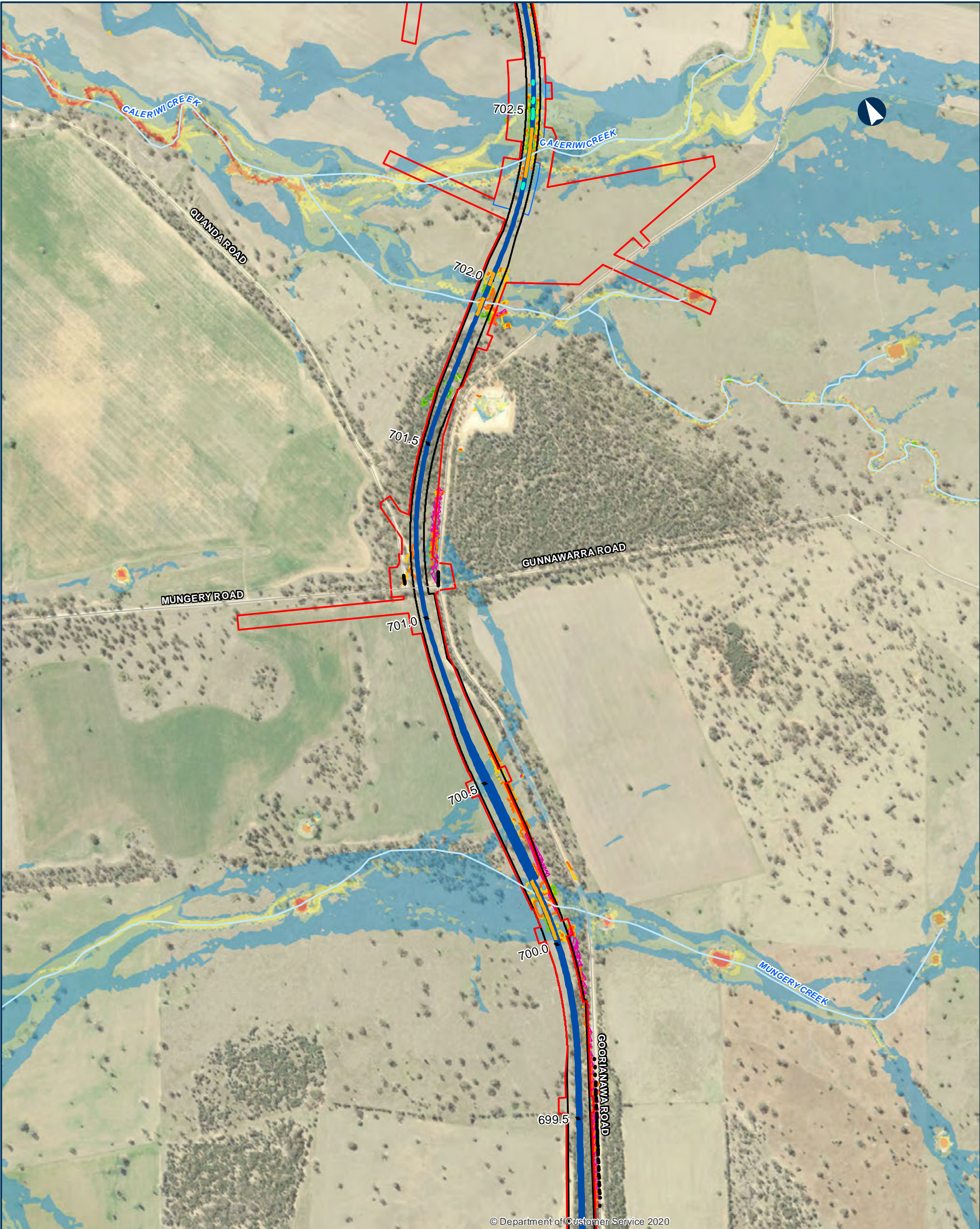
- | | | | |
|--|-----------------------|--|---------------------------------|
| | Culvert | | Afflux contour |
| | Road ODL departure | | -300mm |
| | Alignment | | -200mm |
| | Sub arterial road | | 100mm |
| | Watercourse | | 200mm |
| | The proposal | | Area of departure |
| | Drainage Control Area | | Agricultural >200mm increase |
| | Rail Corridor | | 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 - 5% AEP

Appendix I - Figure 1.2.51

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



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QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.52

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
 - Alignment
 - Sub arterial road
 - Local road
 - Watercourse
 - The proposal
 - Drainage Control Area
 - Rail Corridor
- Afflux contour**
- 300mm
 - 200mm
 - 100mm
 - 200mm
- 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 - 5% AEP

Appendix I - Figure 1.2.53

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

Afflux contour

- 300mm
- 200mm
- 100mm
- 200mm

Area of departure

- Agricultural >200mm increase
- Other non-urban >300mm increase

Legend

- Bridge
- Culvert
- Alignment
- Watercourse
- The proposal
- Drainage Control Area
- Rail Corridor

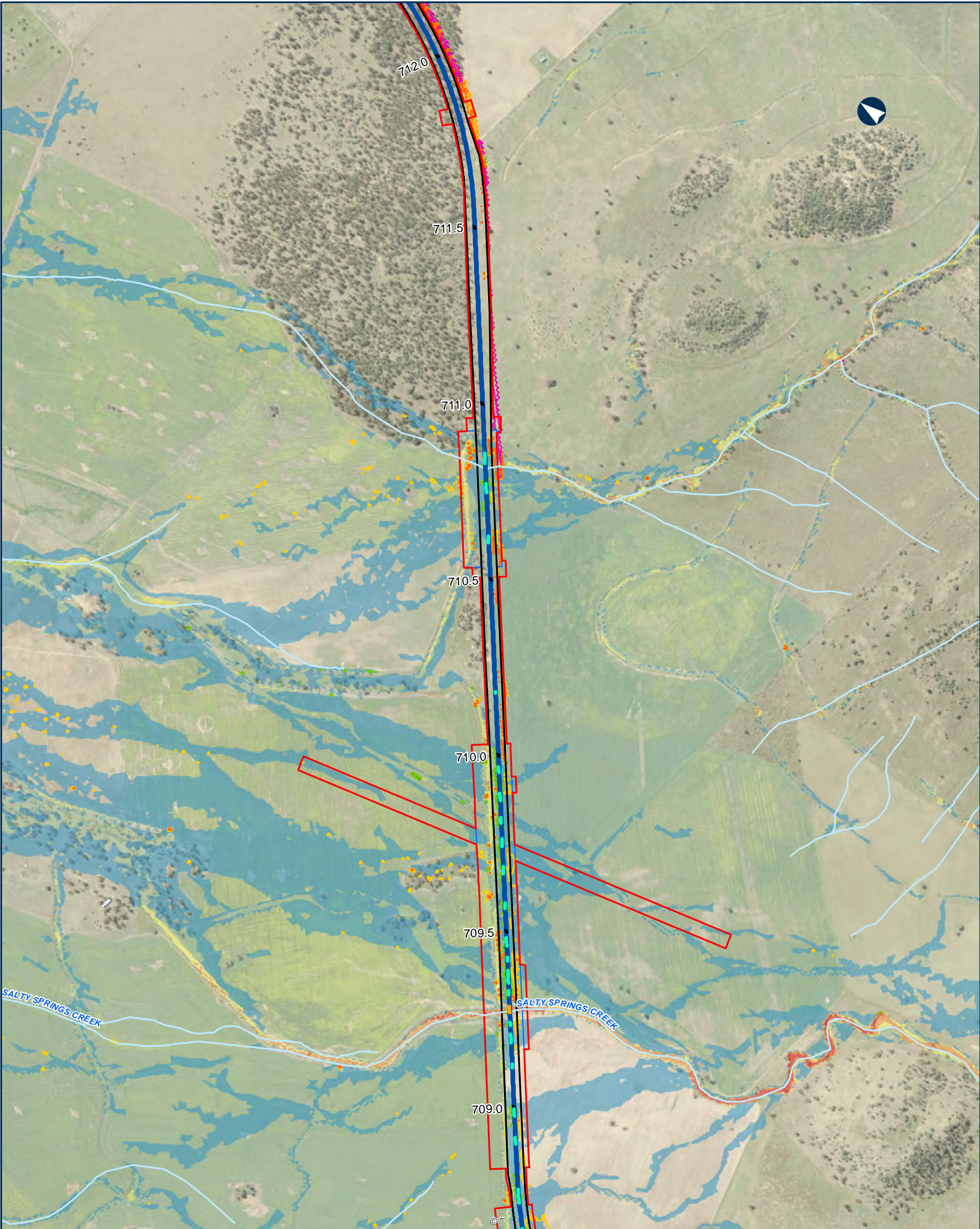
Existing Flood Depth

- 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 - 5% AEP

Appendix I - Figure 1.2.54

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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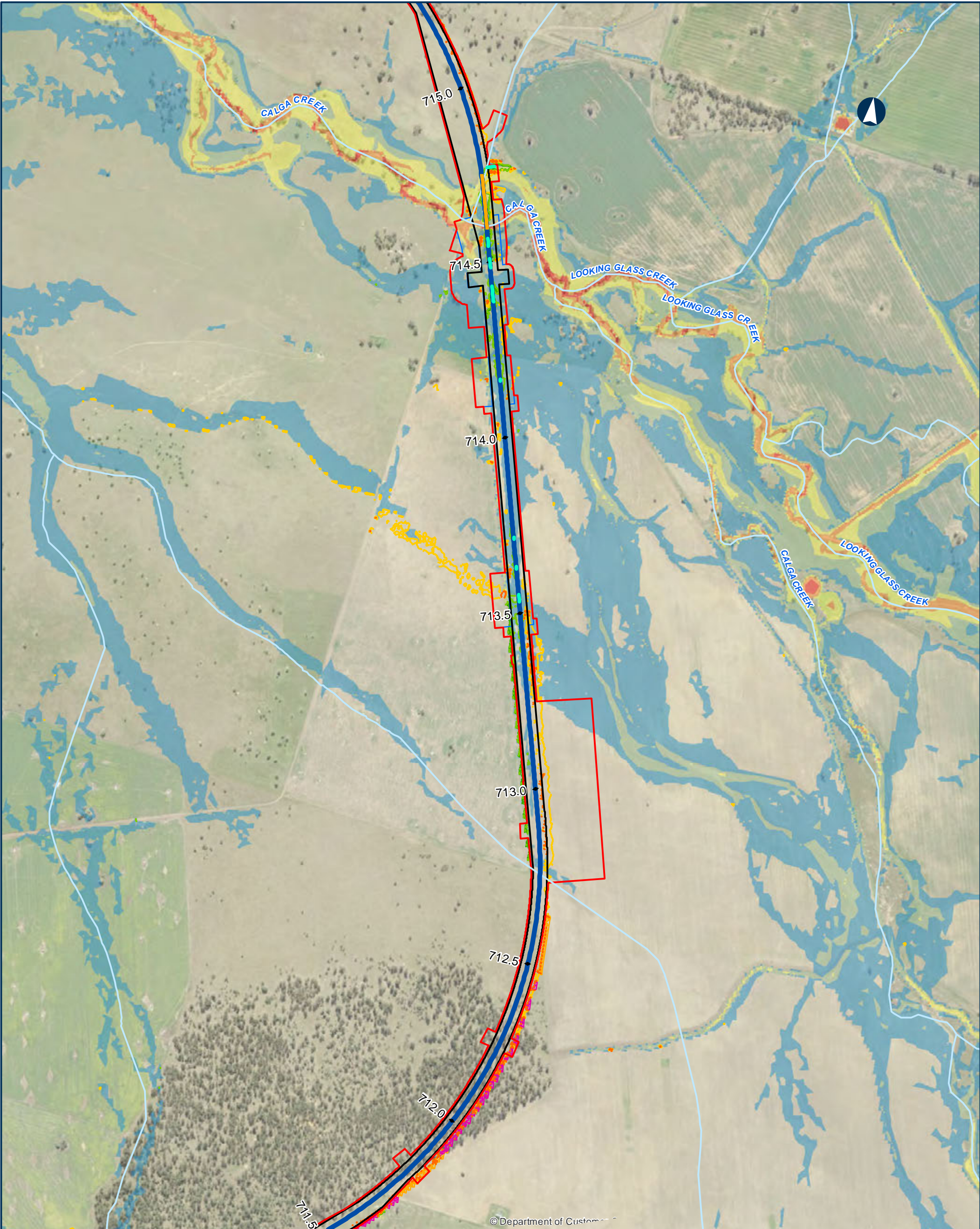
Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Bridge
- Culvert
- Alignment
- Watercourse
- The proposal
- Drainage Control Area
- Rail Corridor
- Afflux contour
 - 300mm
 - 200mm
 - 100mm
 - 200mm
- 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 - 5% AEP

Appendix I - Figure 1.2.55

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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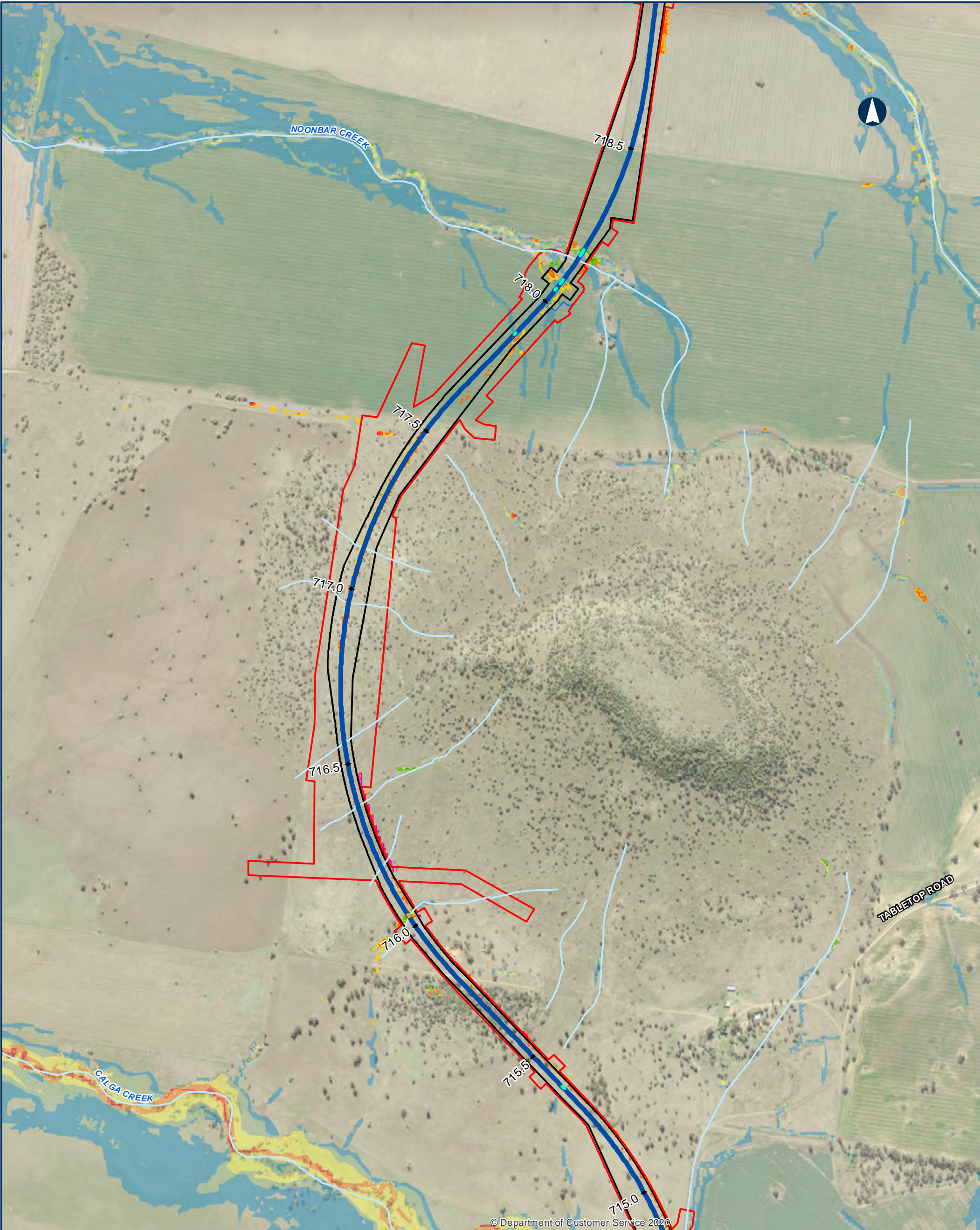
Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Bridge
- Culvert
- Alignment
- Watercourse
- The proposal
- Drainage Control Area
- Rail Corridor
- Afflux contour
 - 300mm
 - 200mm
 - 100mm
 - 200mm
- 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 - 5% AEP Appendix I - Figure 1.2.56

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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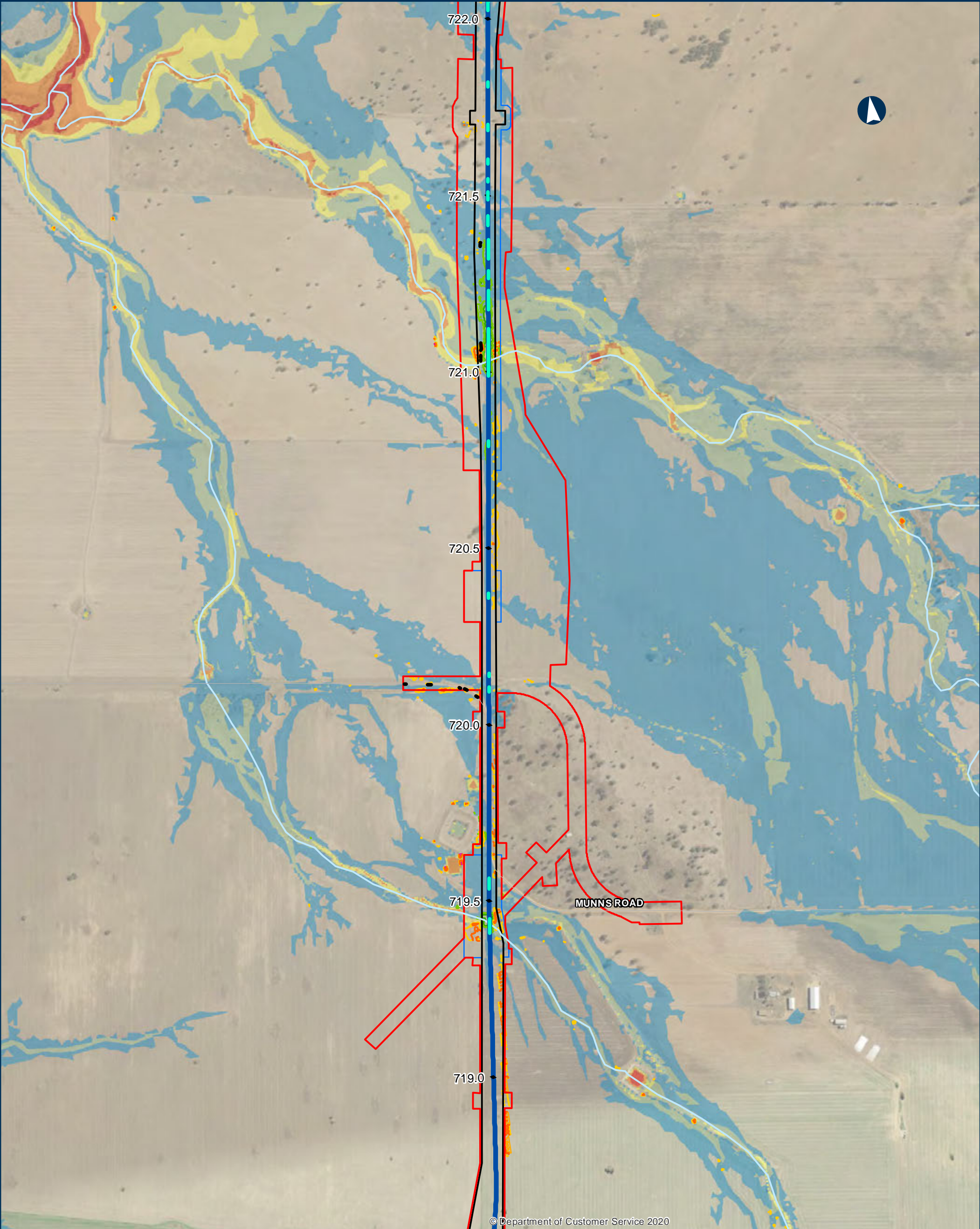
Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

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



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NARROMINE TO NARRABRI

QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.57

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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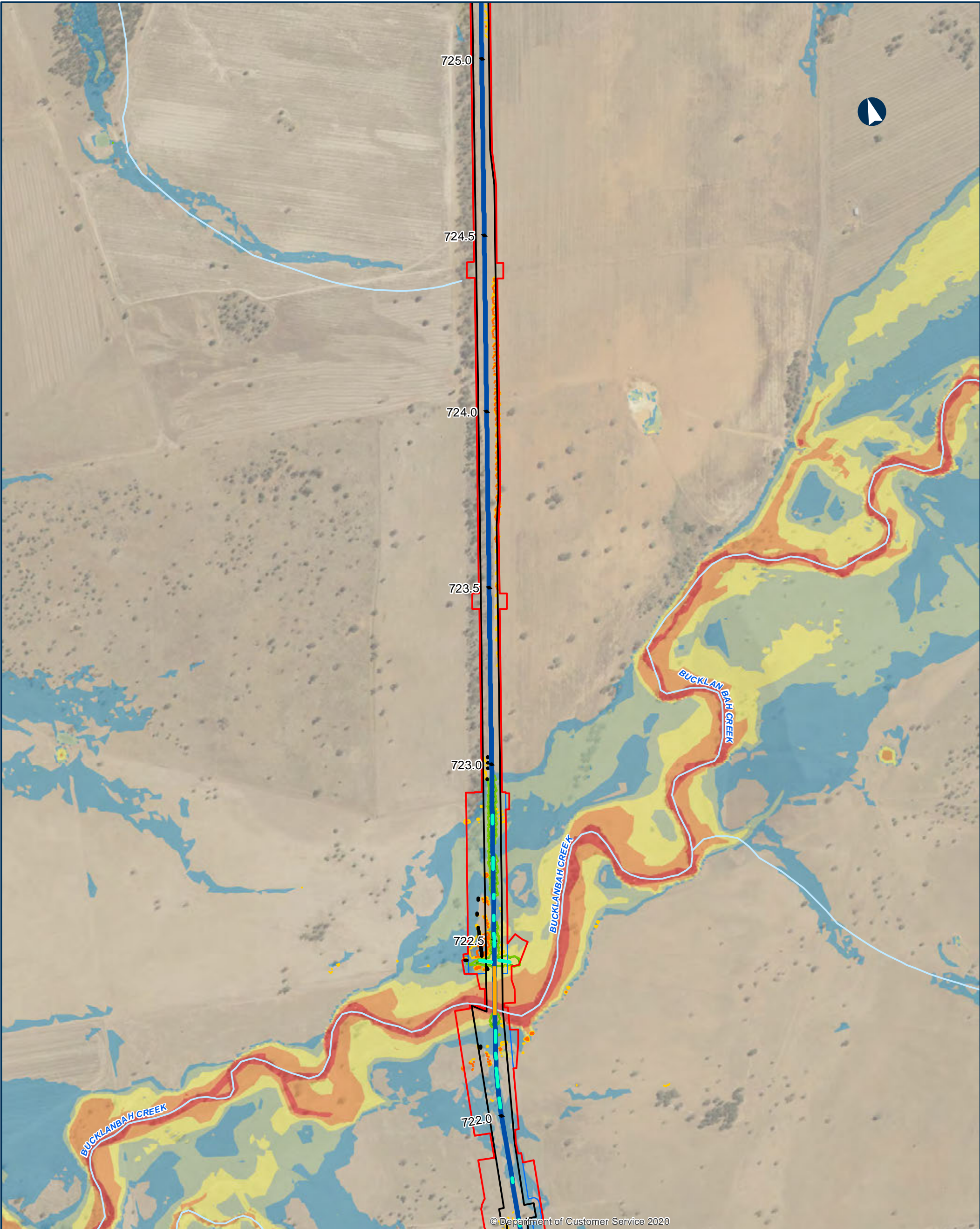
Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Afflux contour**
- 300mm
 - 200mm
 - 100mm
 - 200mm
- 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 - 5% AEP

Appendix I - Figure 1.2.58

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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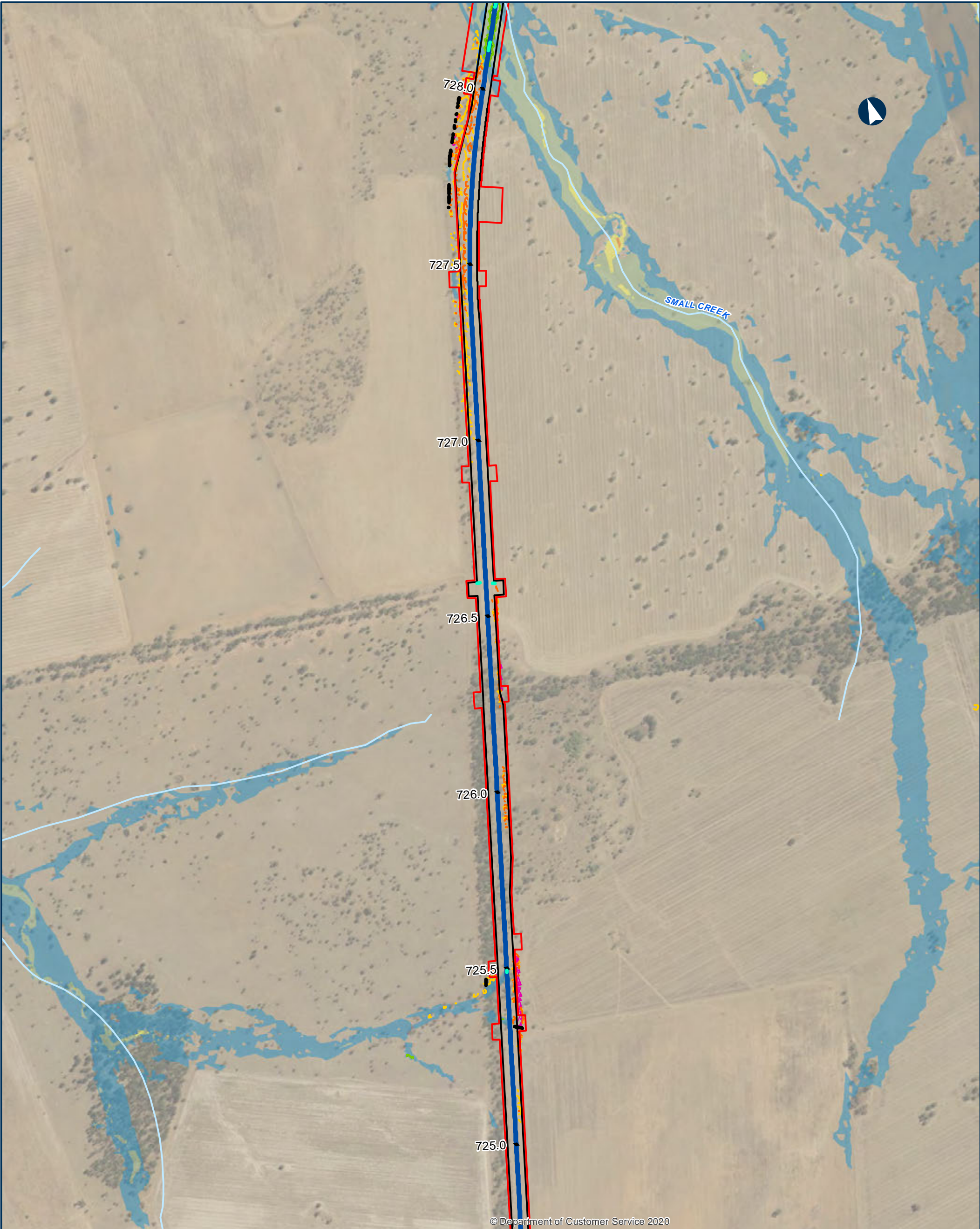
Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

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



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QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.59

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

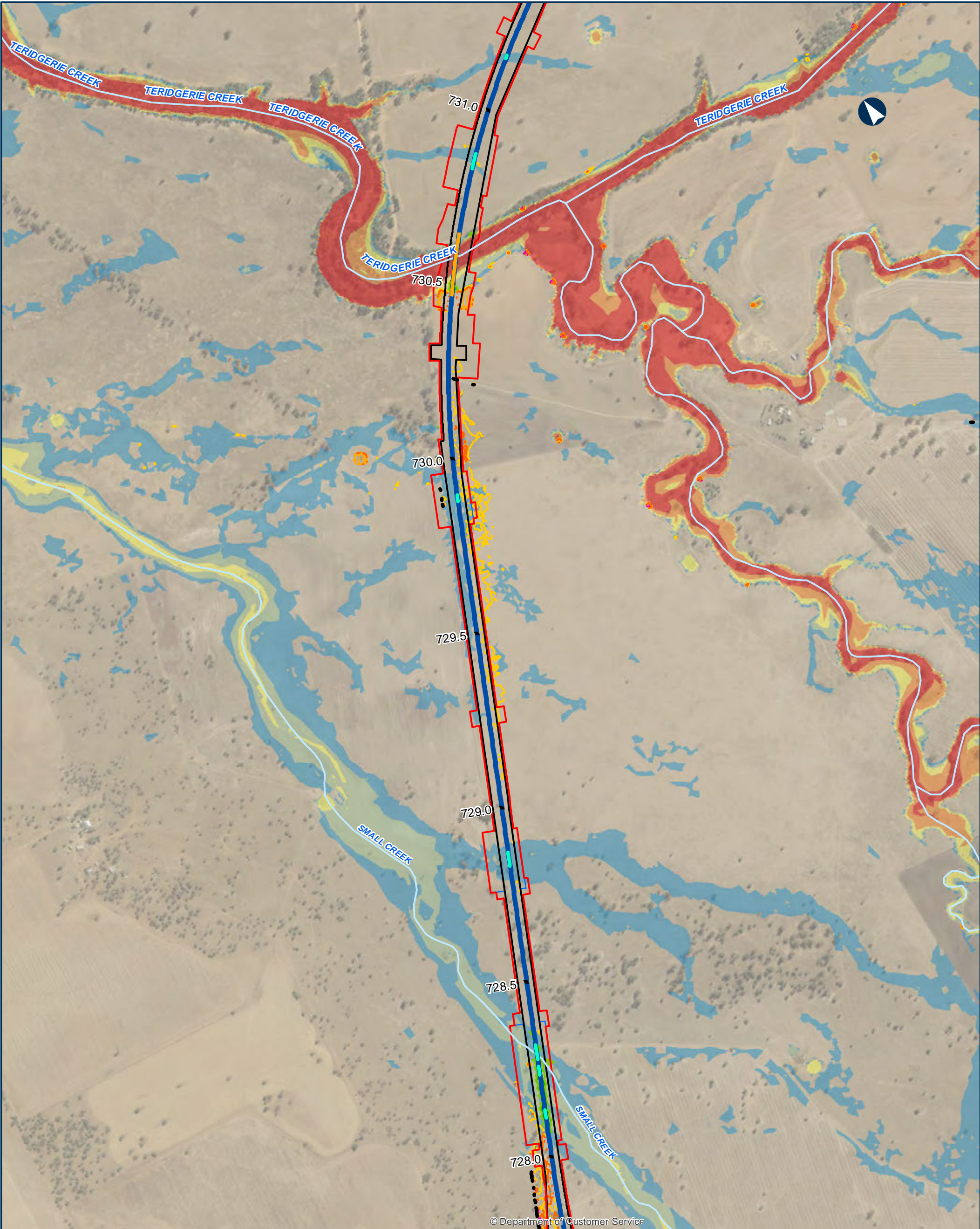
- | | | | |
|--|-----------------------|--|---------------------------------|
| | Culvert | | Afflux contour |
| | Road ODL departure | | -300mm |
| | Alignment | | -200mm |
| | Watercourse | | 100mm |
| | The proposal | | 200mm |
| | Drainage Control Area | | Area of departure |
| | Rail Corridor | | 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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QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.60

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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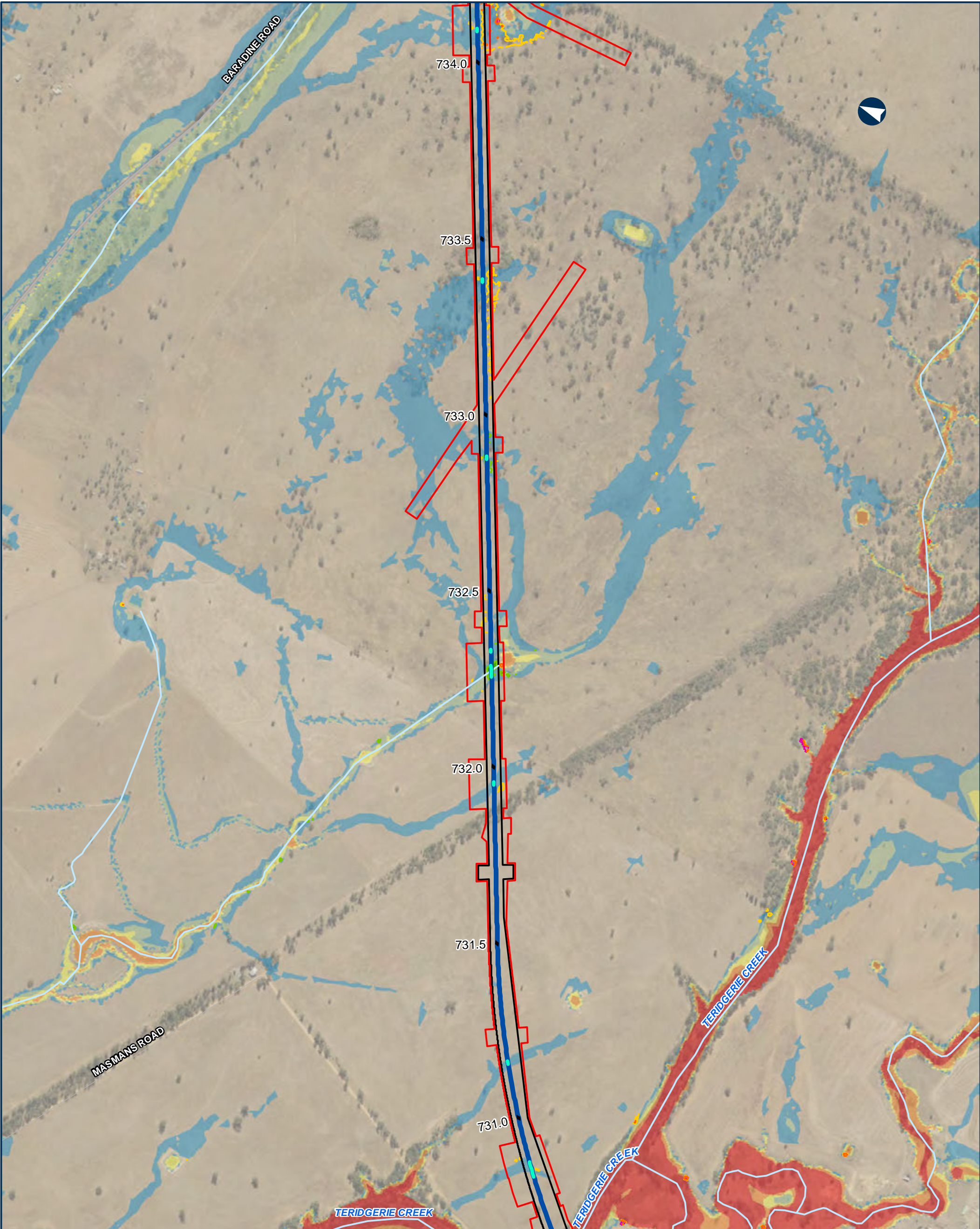
Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Bridge
 - Culvert
 - Road QDL departure
 - Alignment
 - Watercourse
 - The proposal
 - Drainage Control Area
 - Rail Corridor
- Afflux contour**
- 300mm
 - 200mm
 - 100mm
 - 200mm
- 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 - 5% AEP

Appendix I - Figure 1.2.61

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

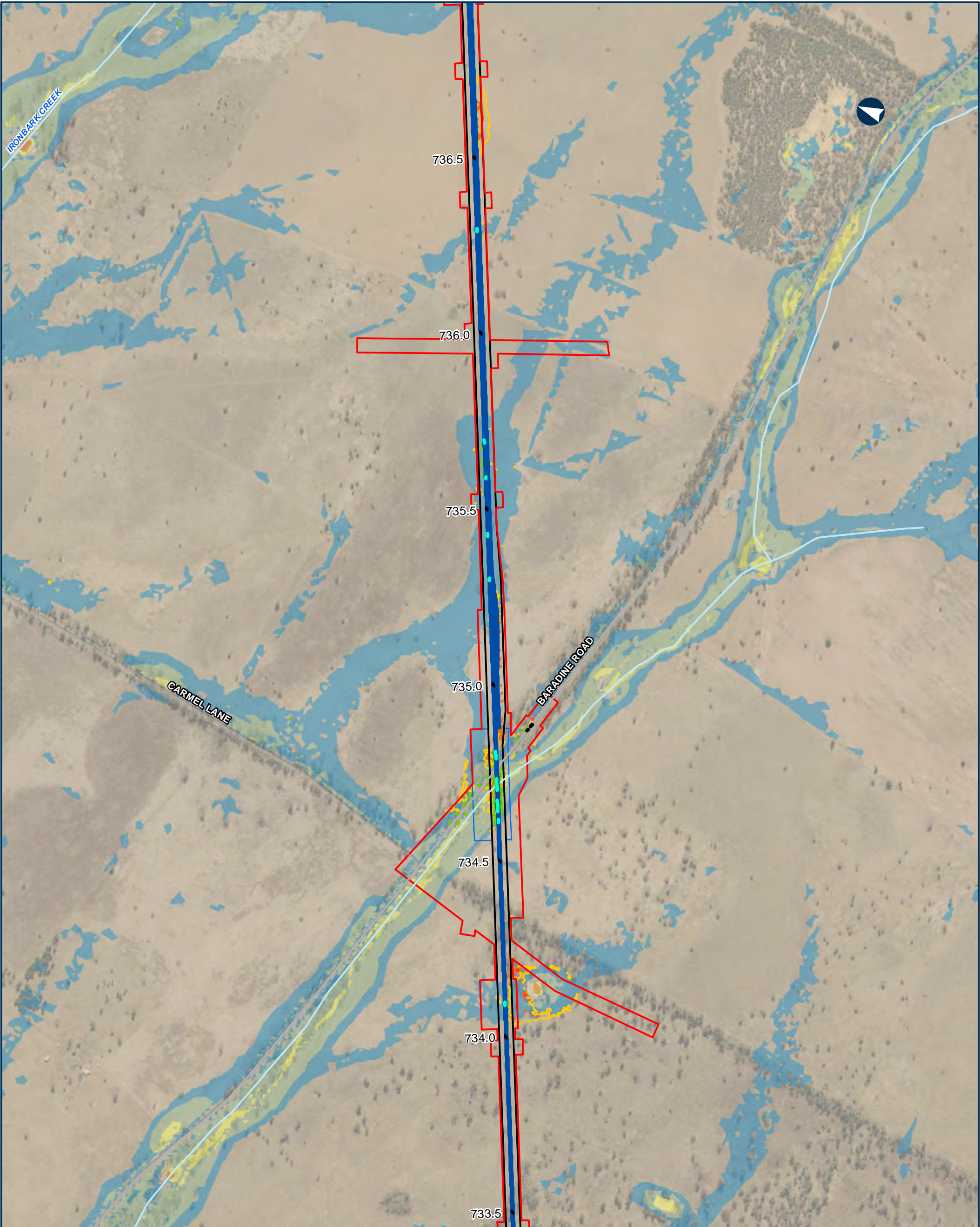
- Culvert
 - Alignment
 - Arterial road
 - Local road
 - Watercourse
 - The proposal
 - Drainage Control Area
 - Rail Corridor
- Afflux contour**
- 300mm
 - 200mm
 - 100mm
 - 200mm
- Area of departure**
- Agricultural >200mm increase
 - Other non-urban >300mm increase

- 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 - 5% AEP

Appendix I - Figure 1.2.62

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

Road ODL departure

Alignment

Arterial road

Local road

Watercourse

The proposal

Drainage Control Area

Rail Corridor

Afflux contour

-300mm

-200mm

100mm

200mm

Area of departure

Agricultural >200mm increase

Other non-urban >300mm increase

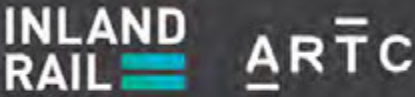
Existing Flood Depth

0.0m - 0.25m

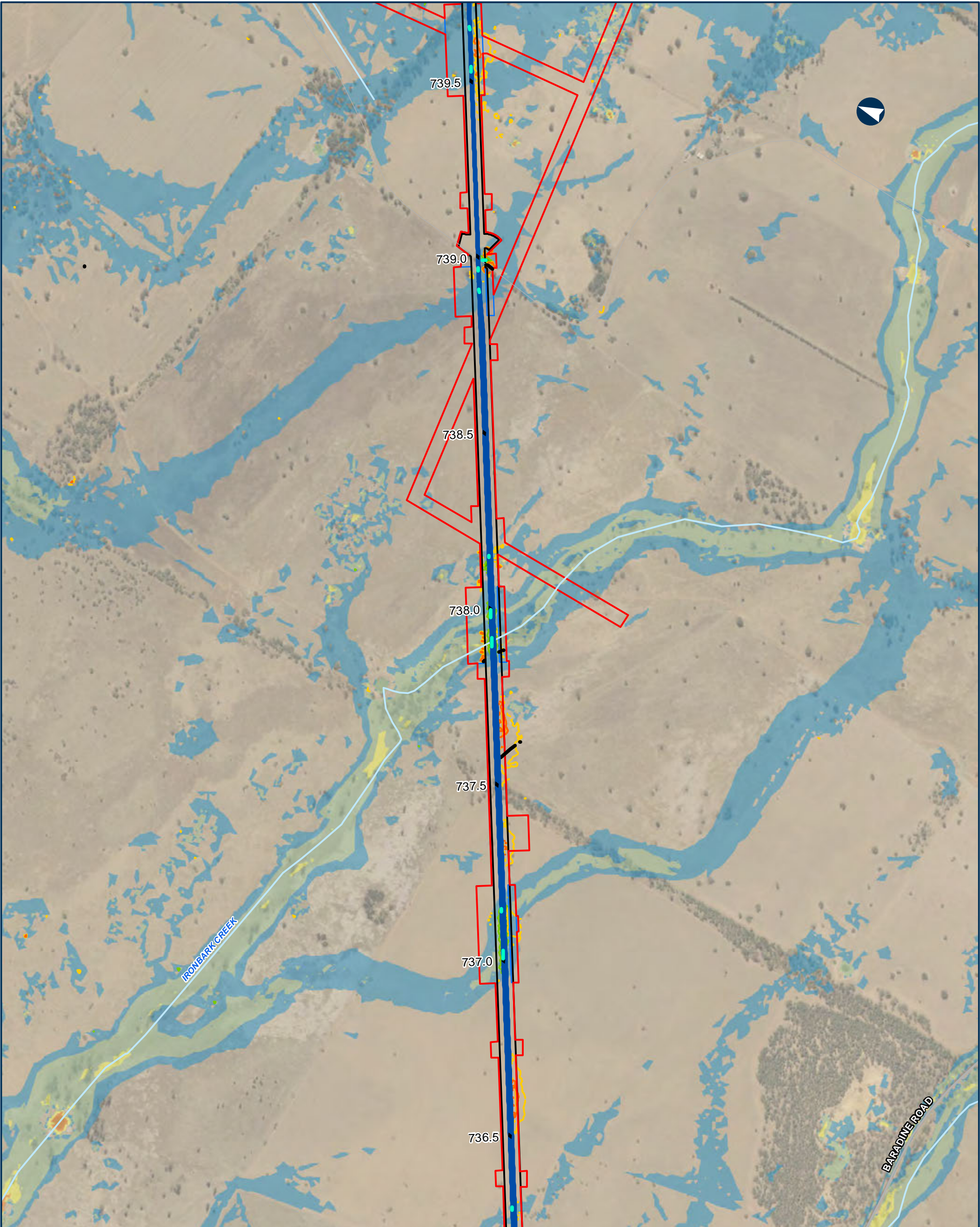
0.25m - 0.5m

0.5m - 1.0m

1.0m - 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.63

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Author: JacobsGHDScale: 1:10,000

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

- Culvert

Road ODL departure

Alignment

Arterial road

Local road

Watercourse

The proposal

Drainage Control Area

Rail Corridor
- Afflux contour

-300mm

-200mm

100mm

200mm

Area of departure

Agricultural >200mm increase

Other non-urban >300mm increase

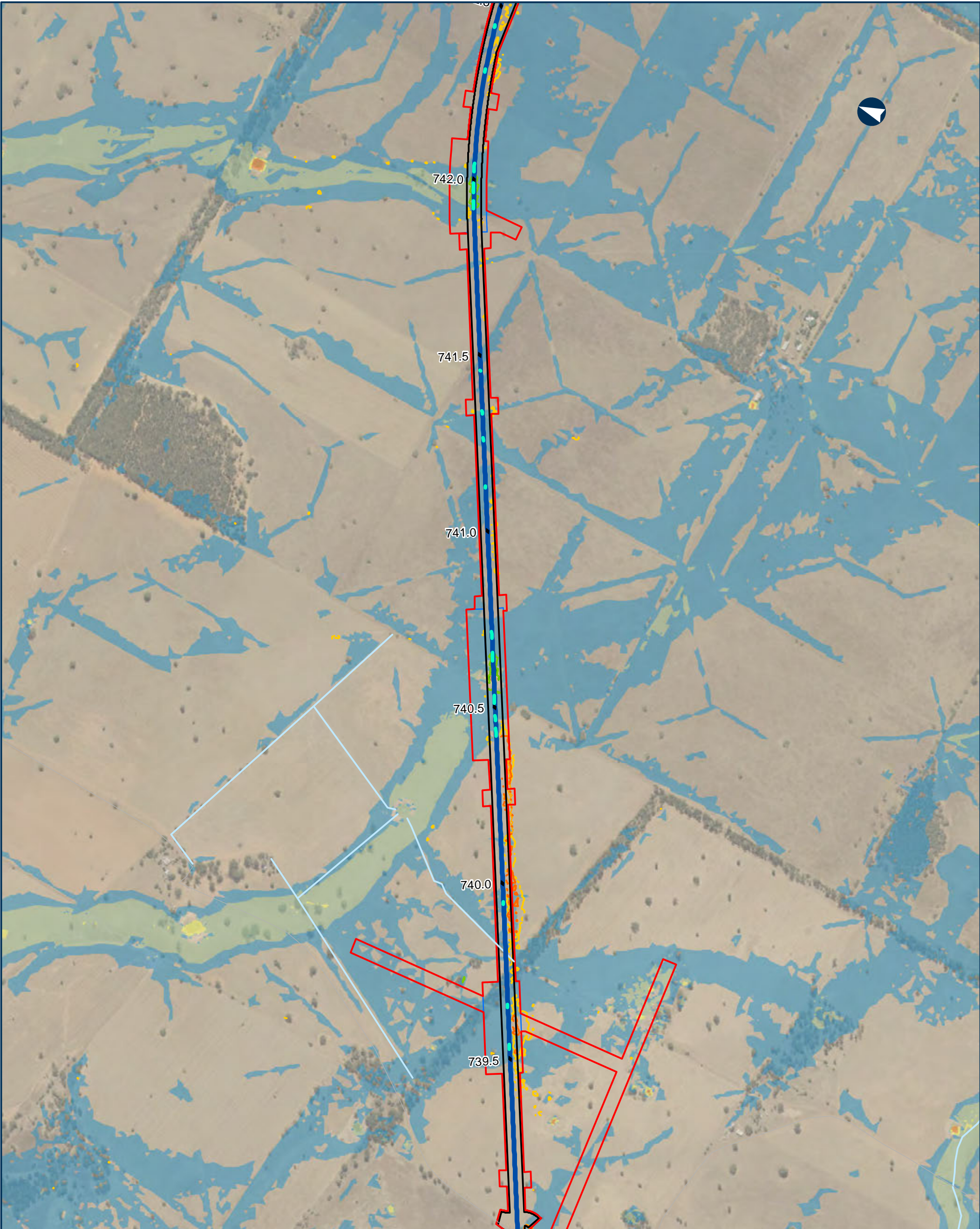
- Existing Flood Depth
- 0.0m - 0.25m
- 0.25m - 0.5m
- 0.5m - 1.0m
- 1.0m - 2.0m
- > 2.0m



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QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.64

0200400

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

Culvert

Alignment

Local road

Watercourse

The proposal

Drainage Control Area

Rail Corridor

Afflux contour

-300mm

-200mm

100mm

200mm

Area of departure

Agricultural >200mm increase

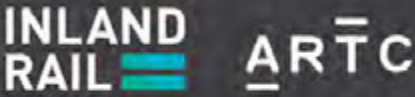
Existing Flood Depth

0.0m - 0.25m

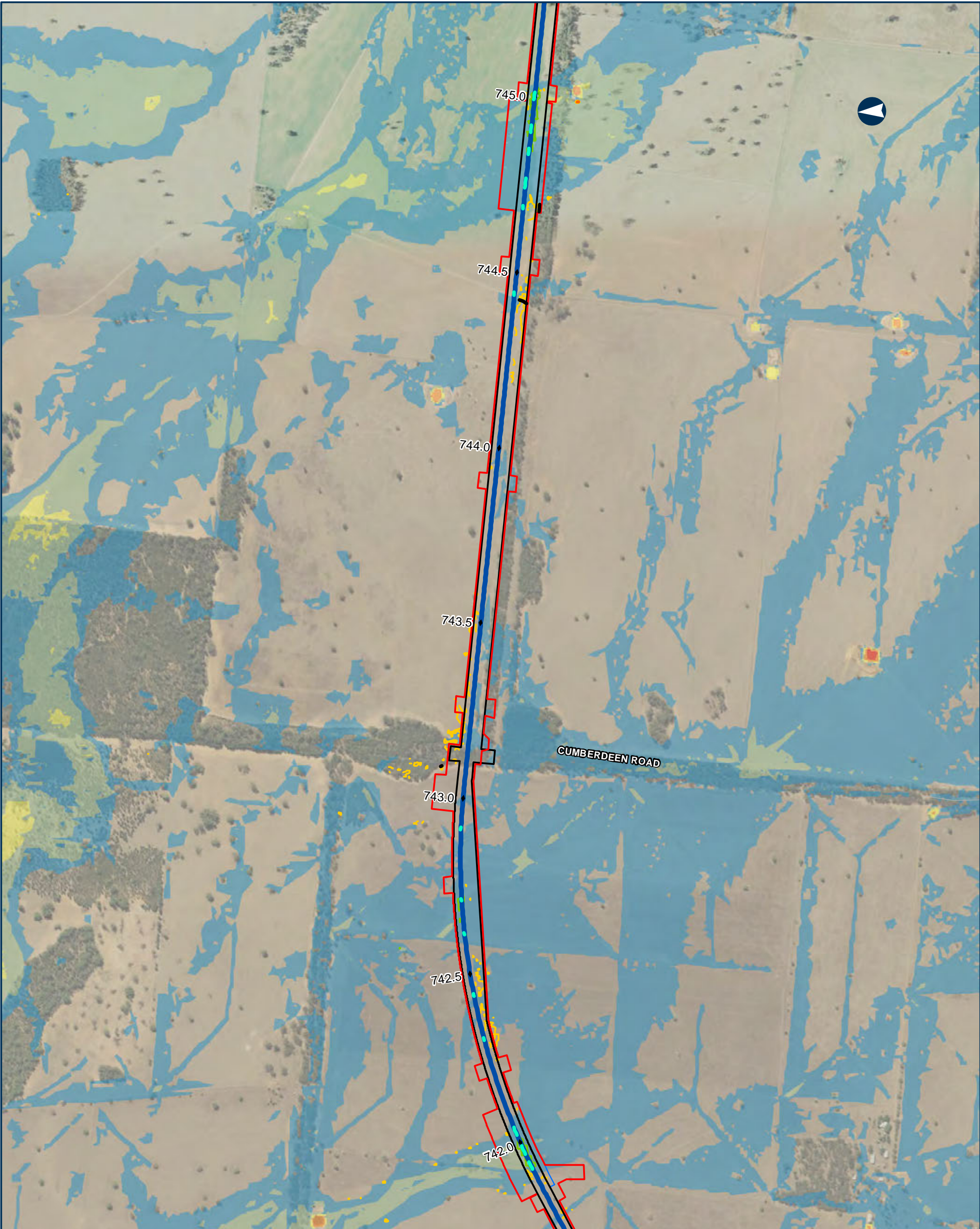
0.25m - 0.5m

0.5m - 1.0m

1.0m - 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.65

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

200mm

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

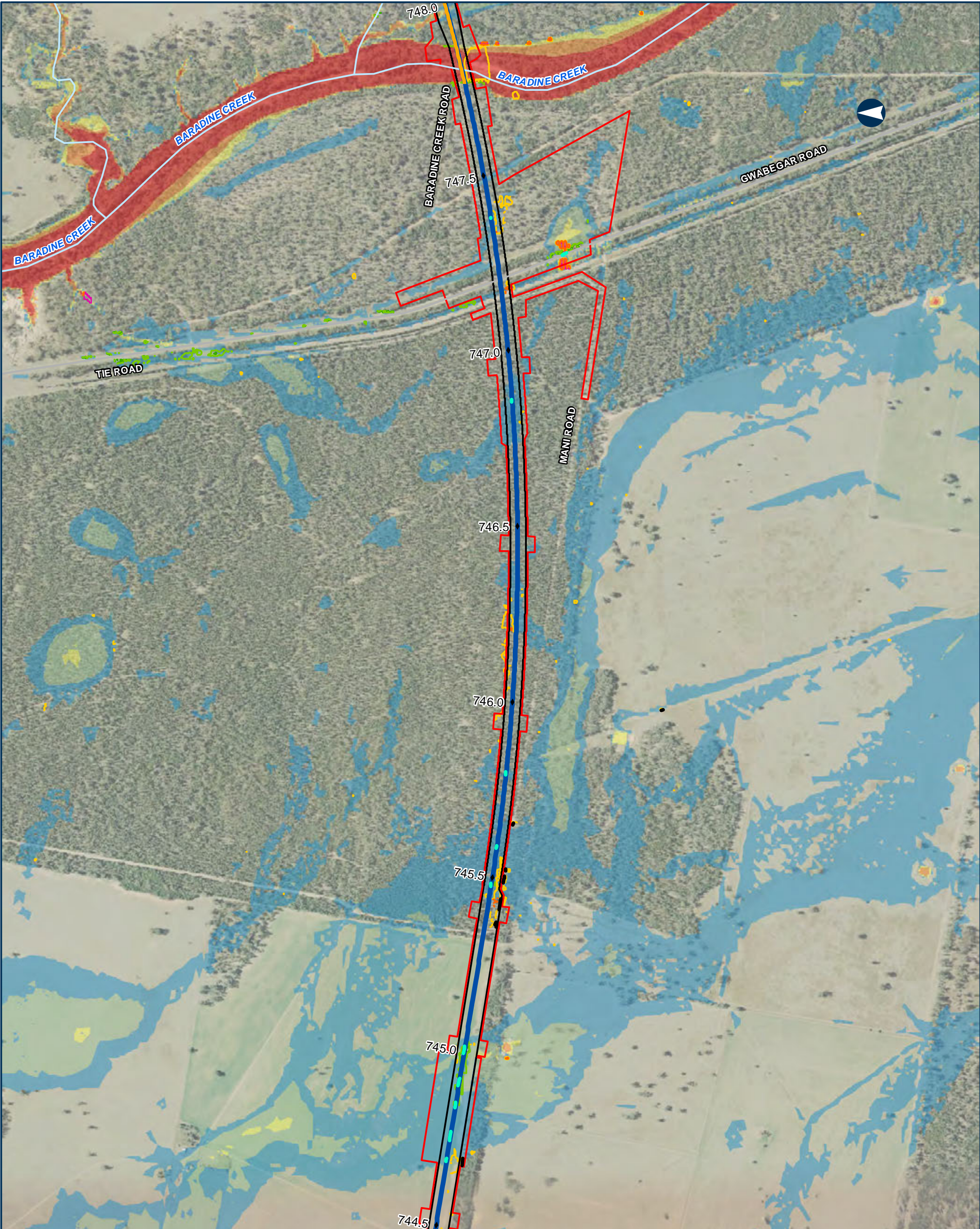
> 2.0m



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NARROMINE TO NARRABRI QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.66

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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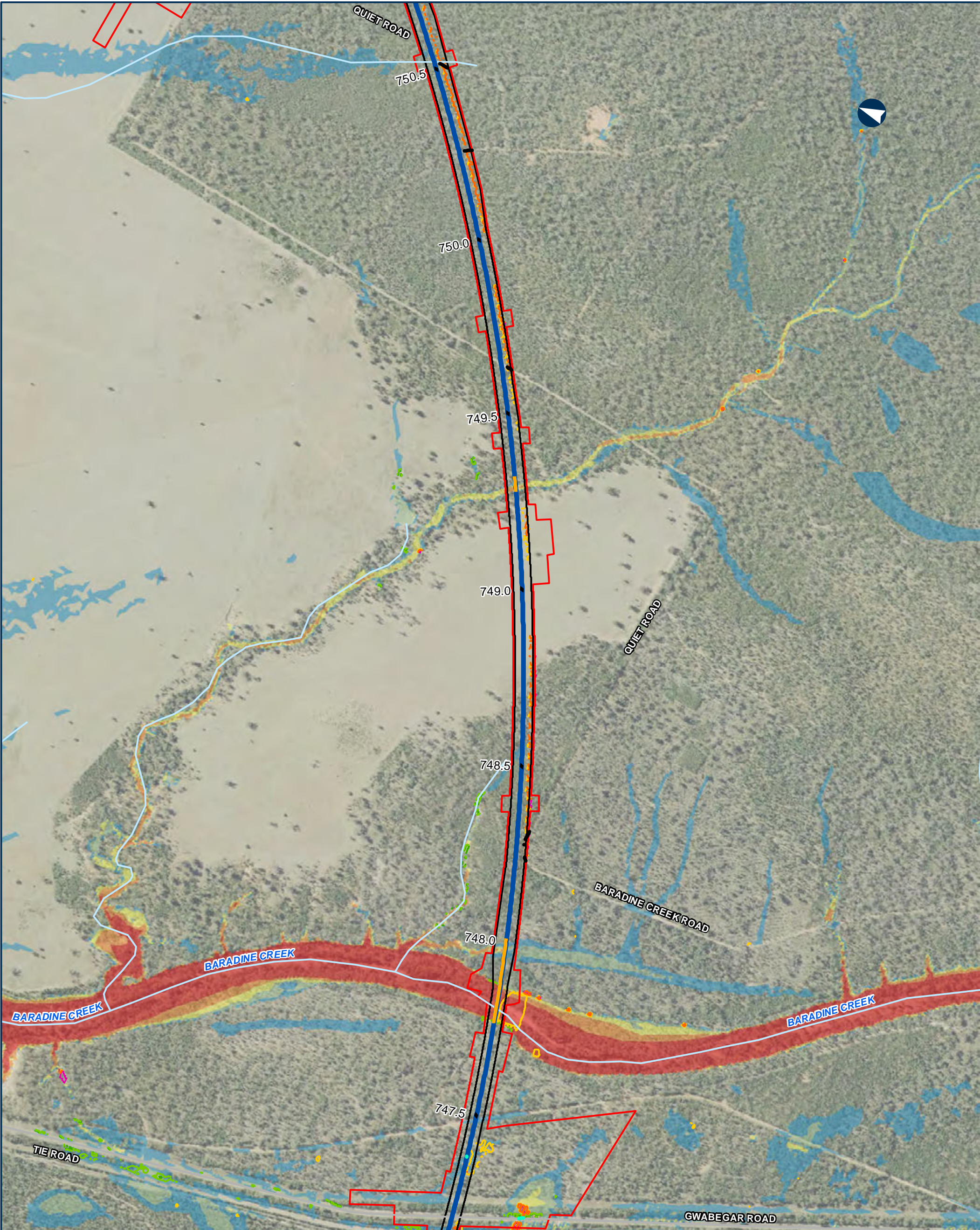
Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- | | | |
|--|---|---|
| <ul style="list-style-type: none">BridgeCulvertRoad QDL departureAlignmentArterial roadWatercourseThe proposalDrainage Control AreaRail Corridor | <ul style="list-style-type: none">Afflux contour<ul style="list-style-type: none">-300mm-200mm100mm200mmArea 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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QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.67

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

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

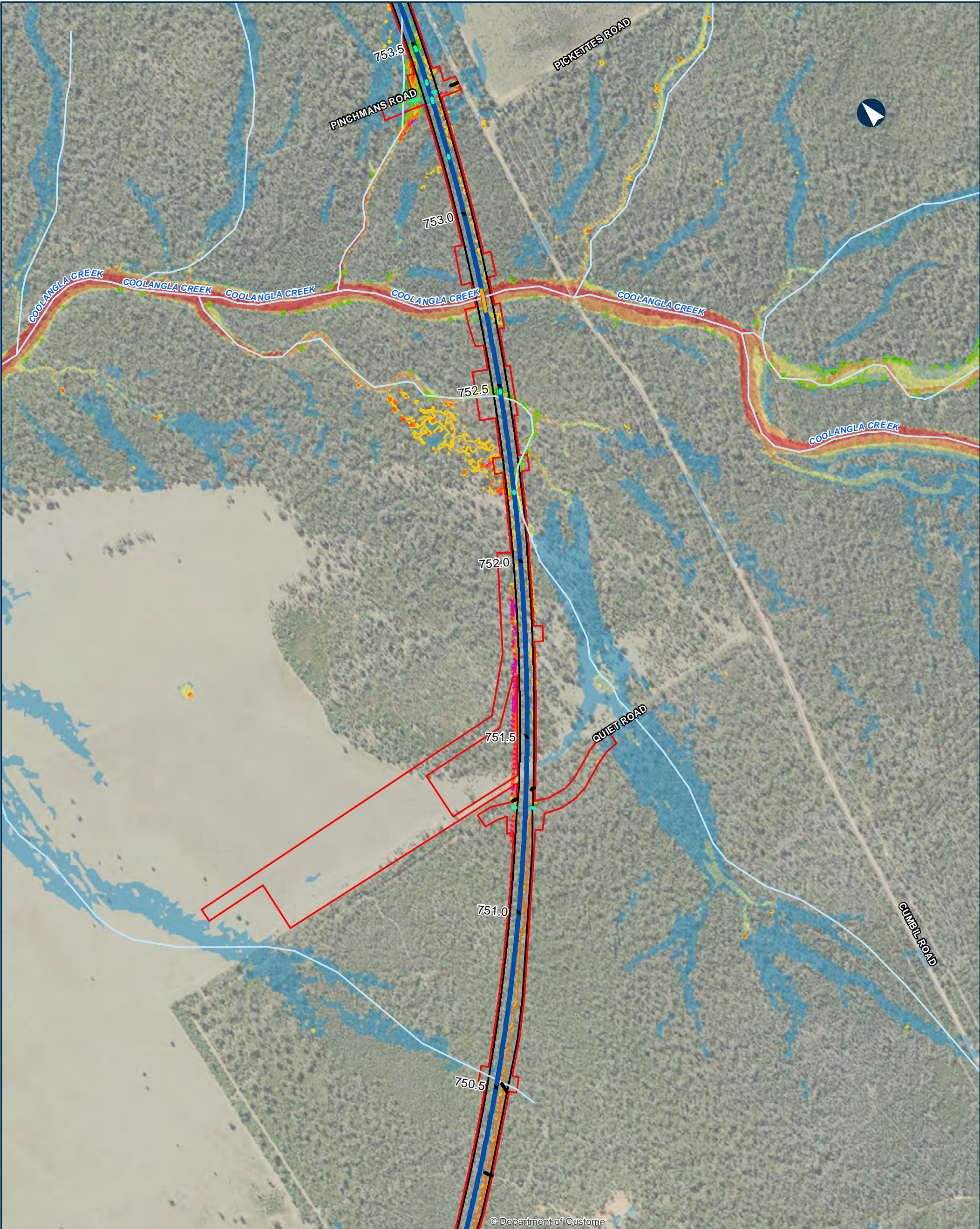
> 2.0m



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QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.68

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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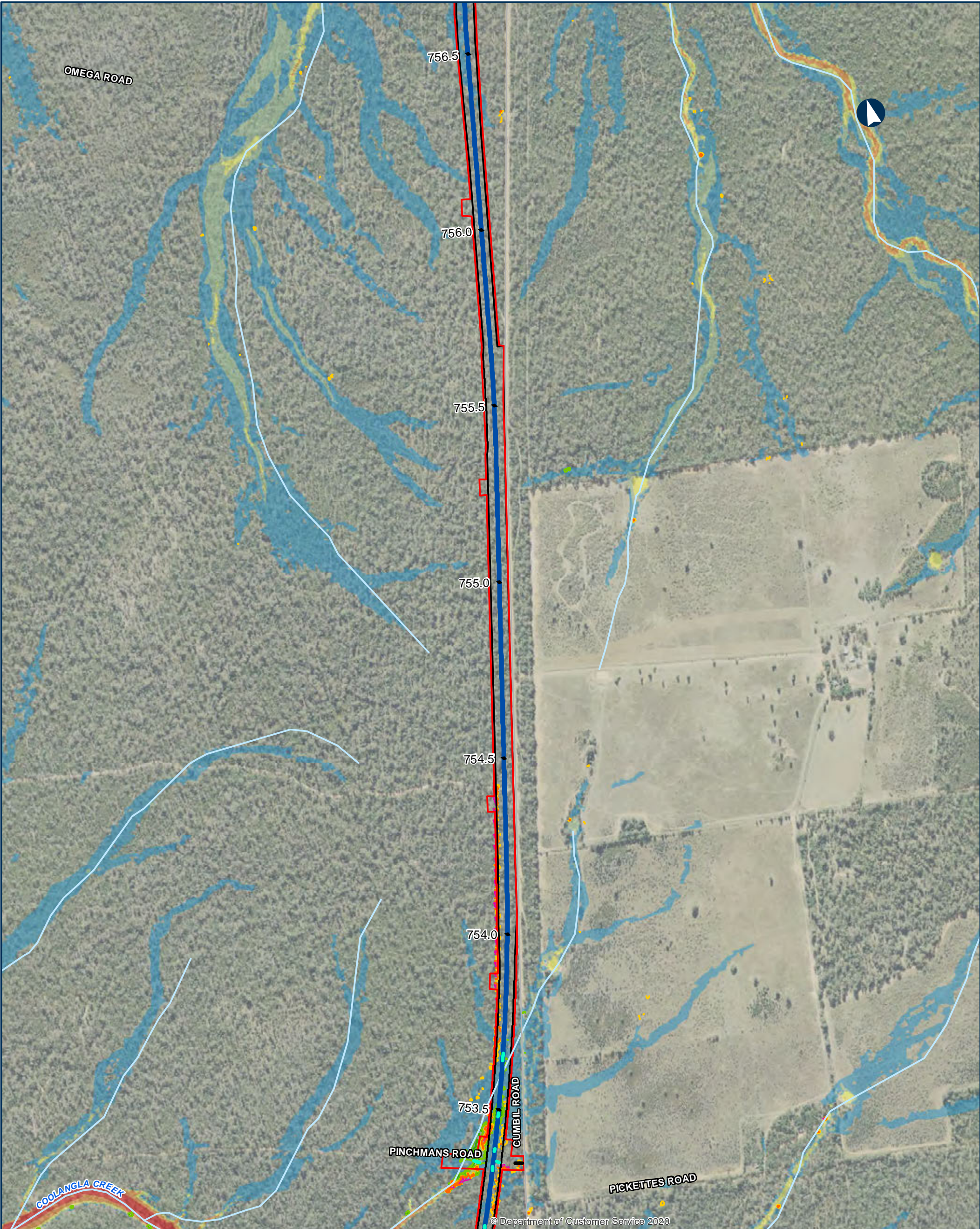
Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

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



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QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.69

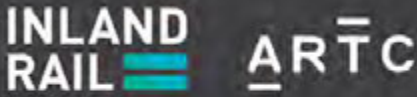
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

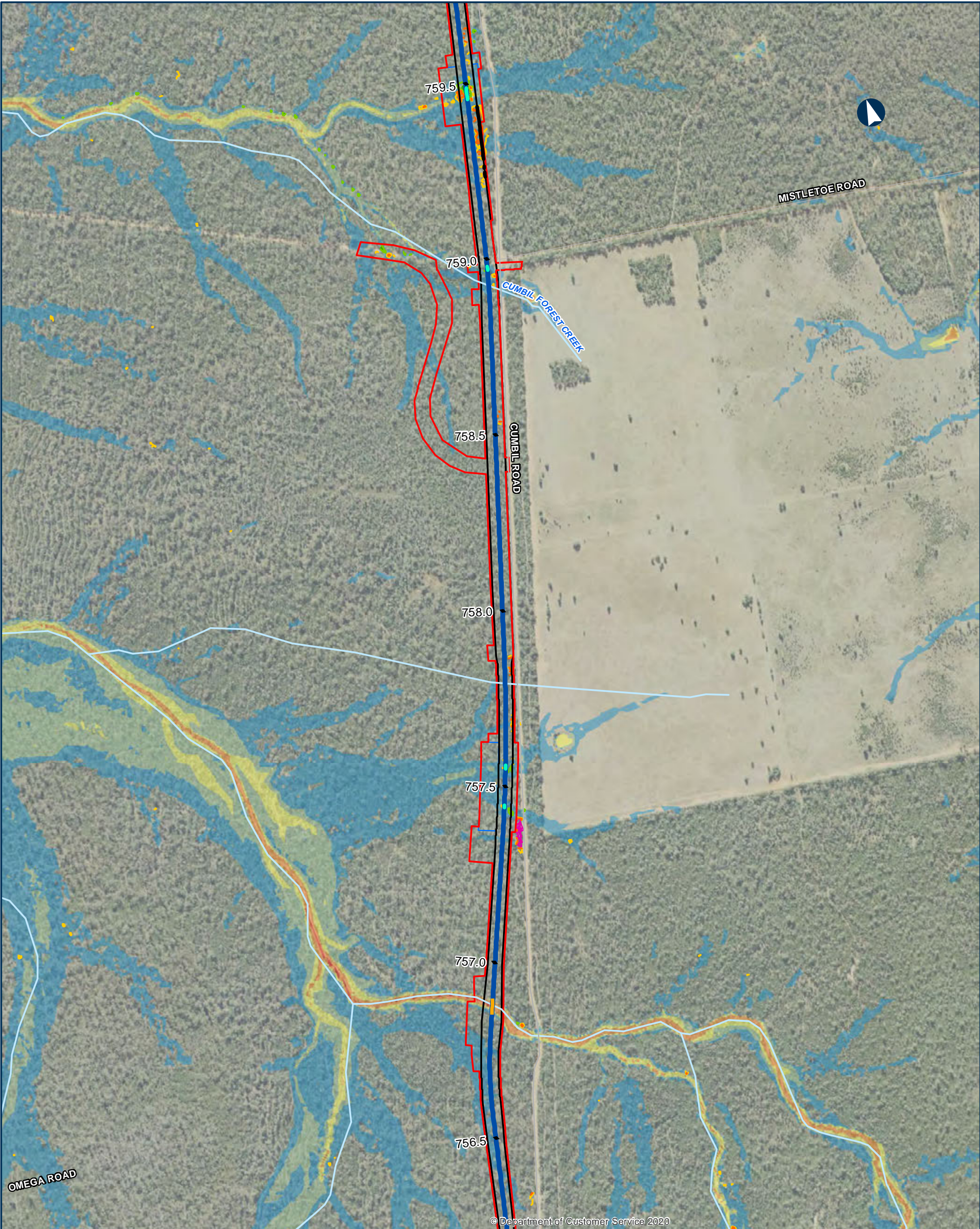
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Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

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



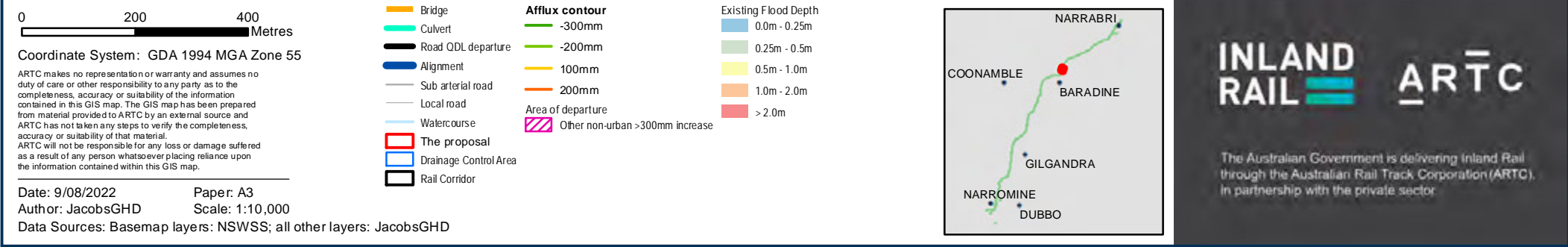
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC), in partnership with the private sector.

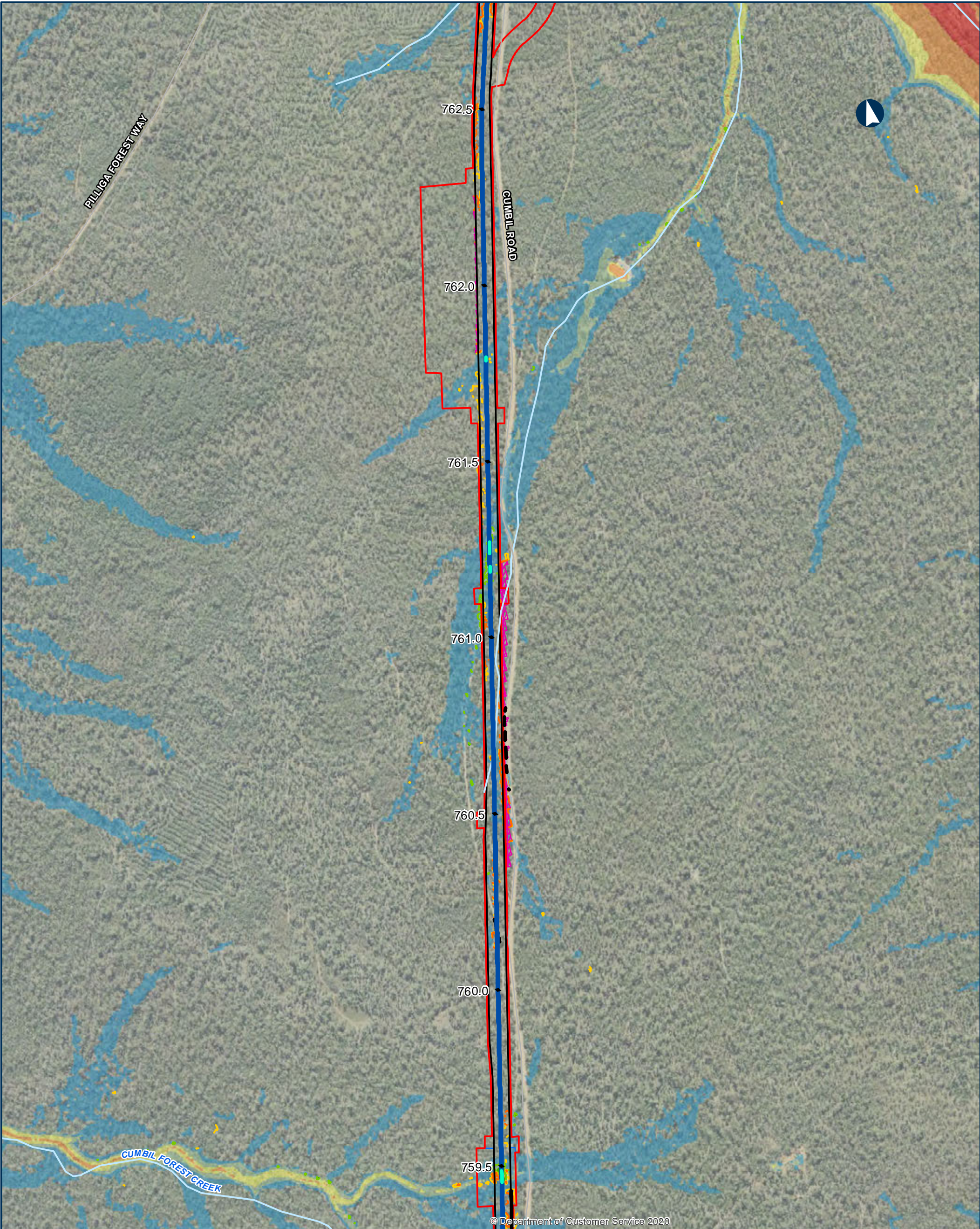


NARROMINE TO NARRABRI

QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.70

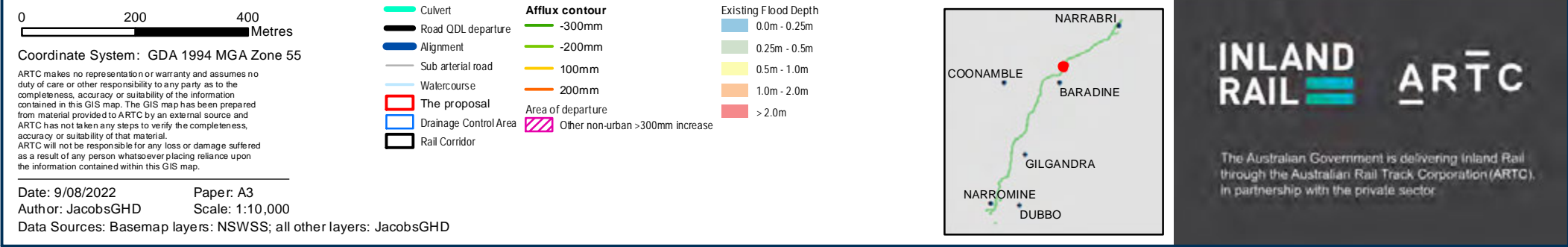


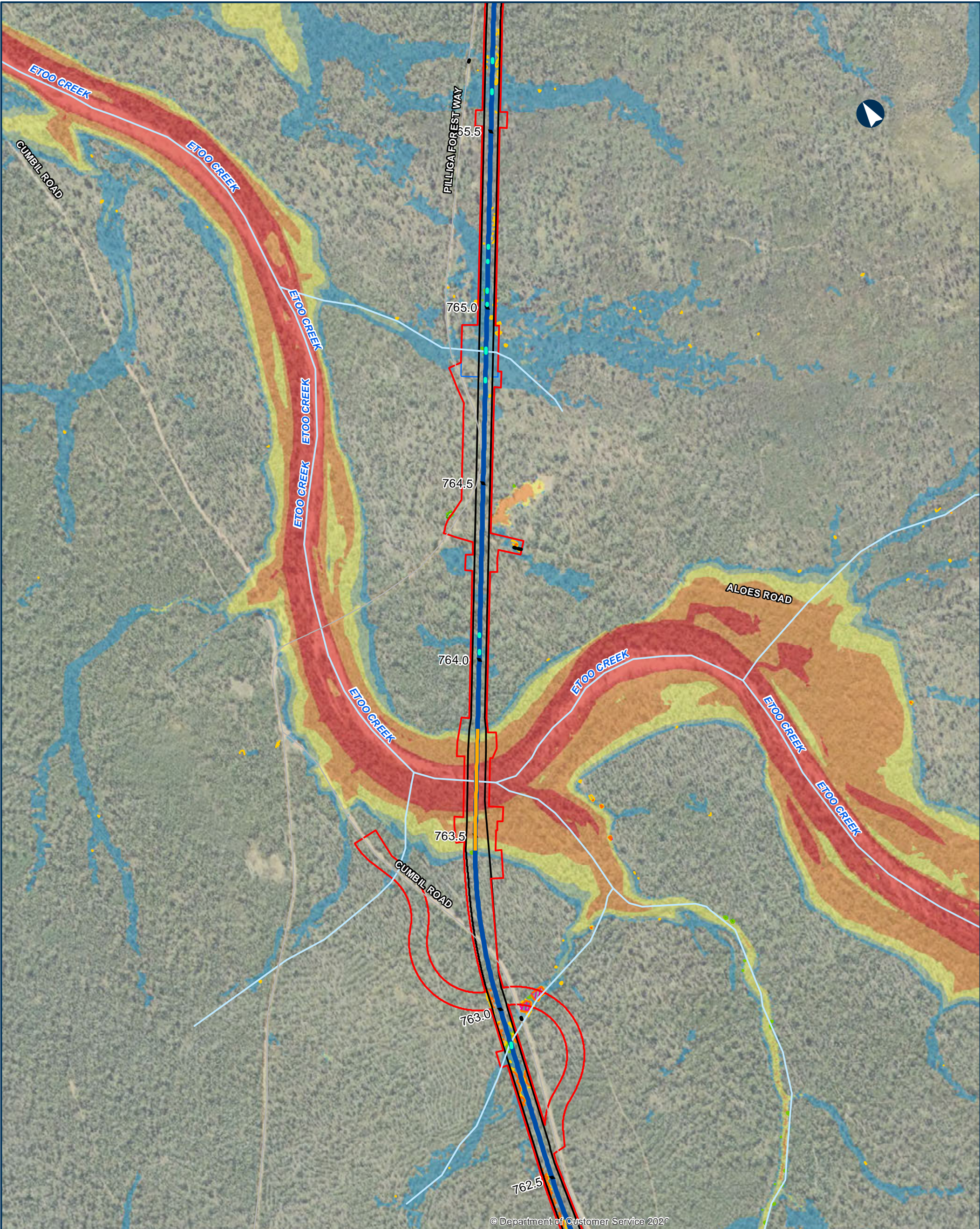


NARROMINE TO NARRABRI

QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.71





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NARROMINE TO NARRABRI

QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.72

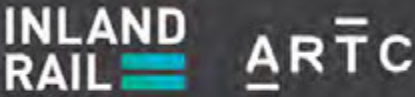
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

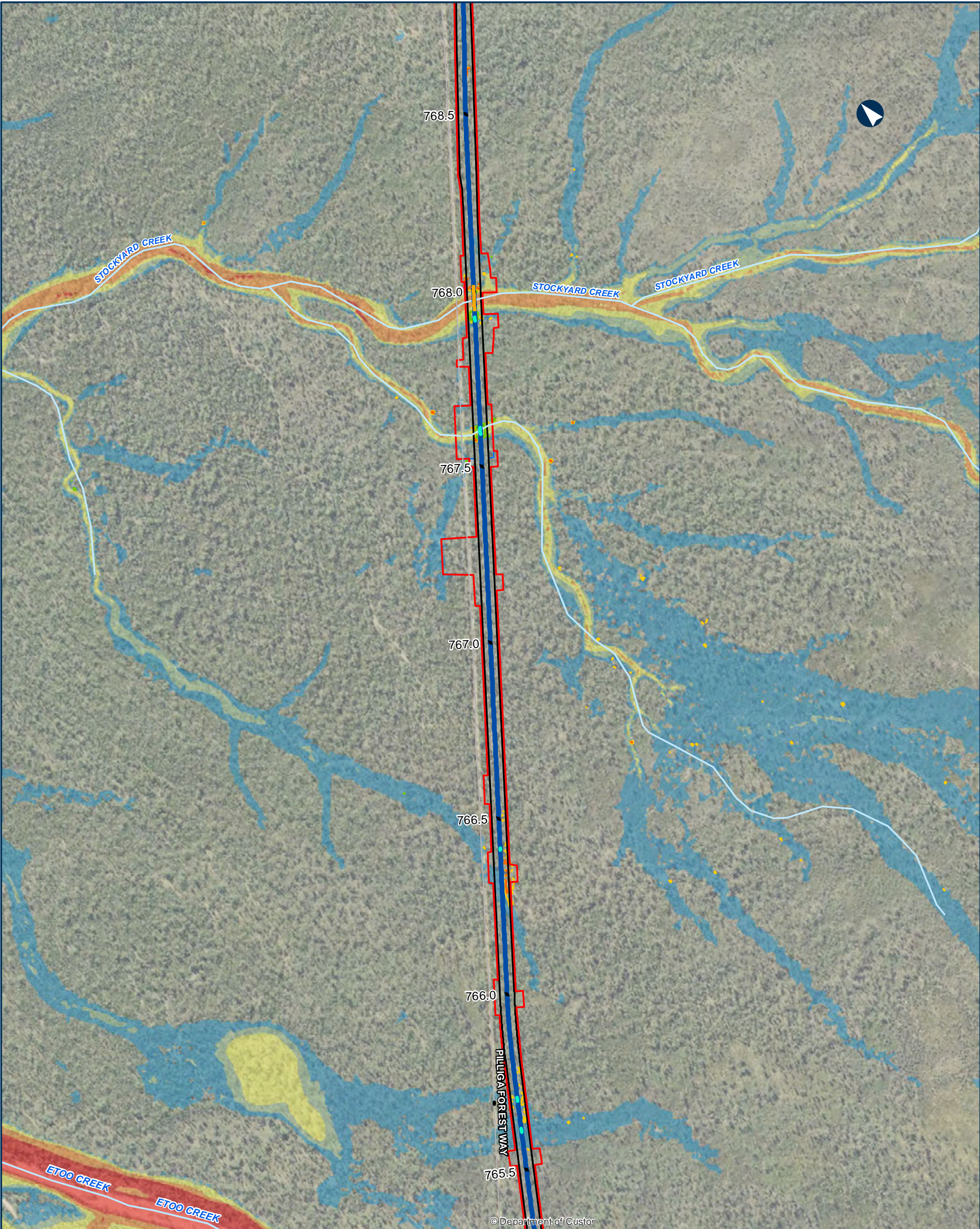
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Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

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



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NARROMINE TO NARRABRI

QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.73

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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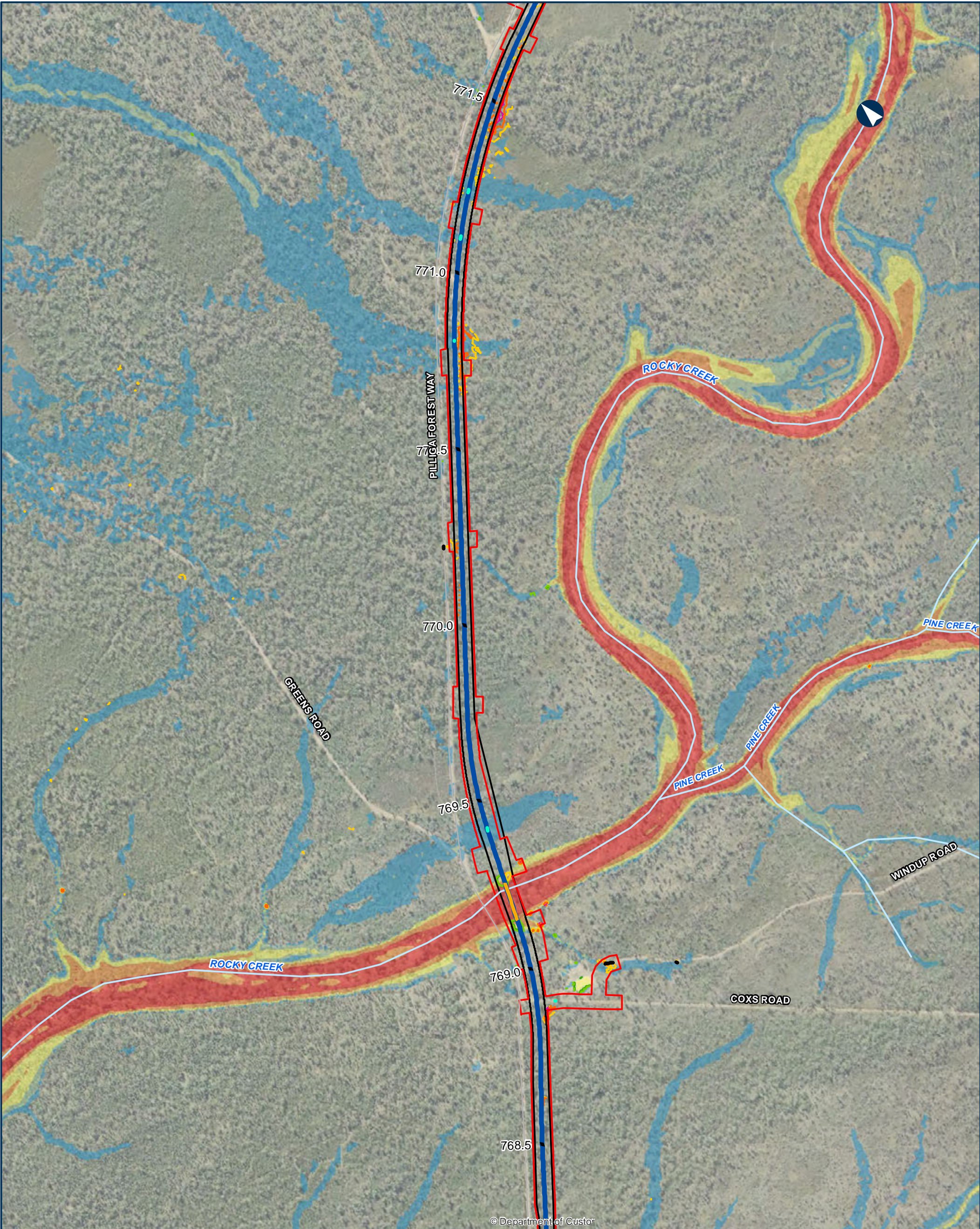
Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

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



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NARROMINE TO NARRABRI

QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.74

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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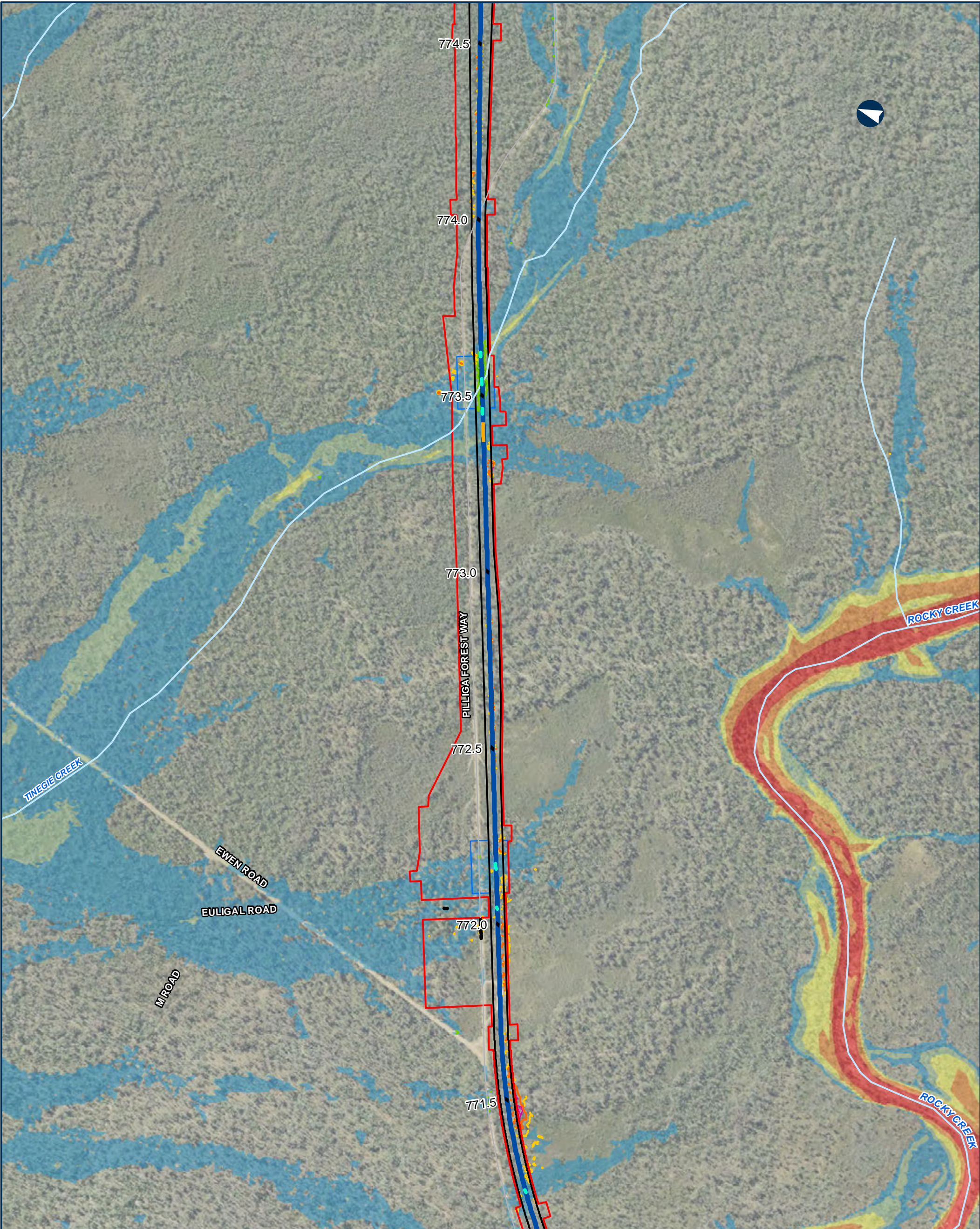
Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Bridge
 - Culvert
 - Road QDL departure
 - Alignment
 - Sub arterial road
 - Watercourse
 - The proposal
 - Rail Corridor
- Afflux contour**
- 300mm
 - 200mm
 - 100mm
 - 200mm
- 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 - 5% AEP

Appendix I - Figure 1.2.75

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

Road QDL departure

Alignment

Sub arterial road

Watercourse

The proposal

Drainage Control Area

Rail Corridor

Afflux contour

-300mm

-200mm

100mm

200mm

Area of departure

Other non-urban >300mm increase

Existing Flood Depth

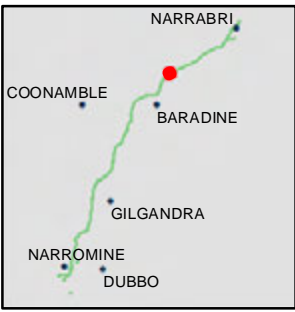
0.0m - 0.25m

0.25m - 0.5m

0.5m - 1.0m

1.0m - 2.0m

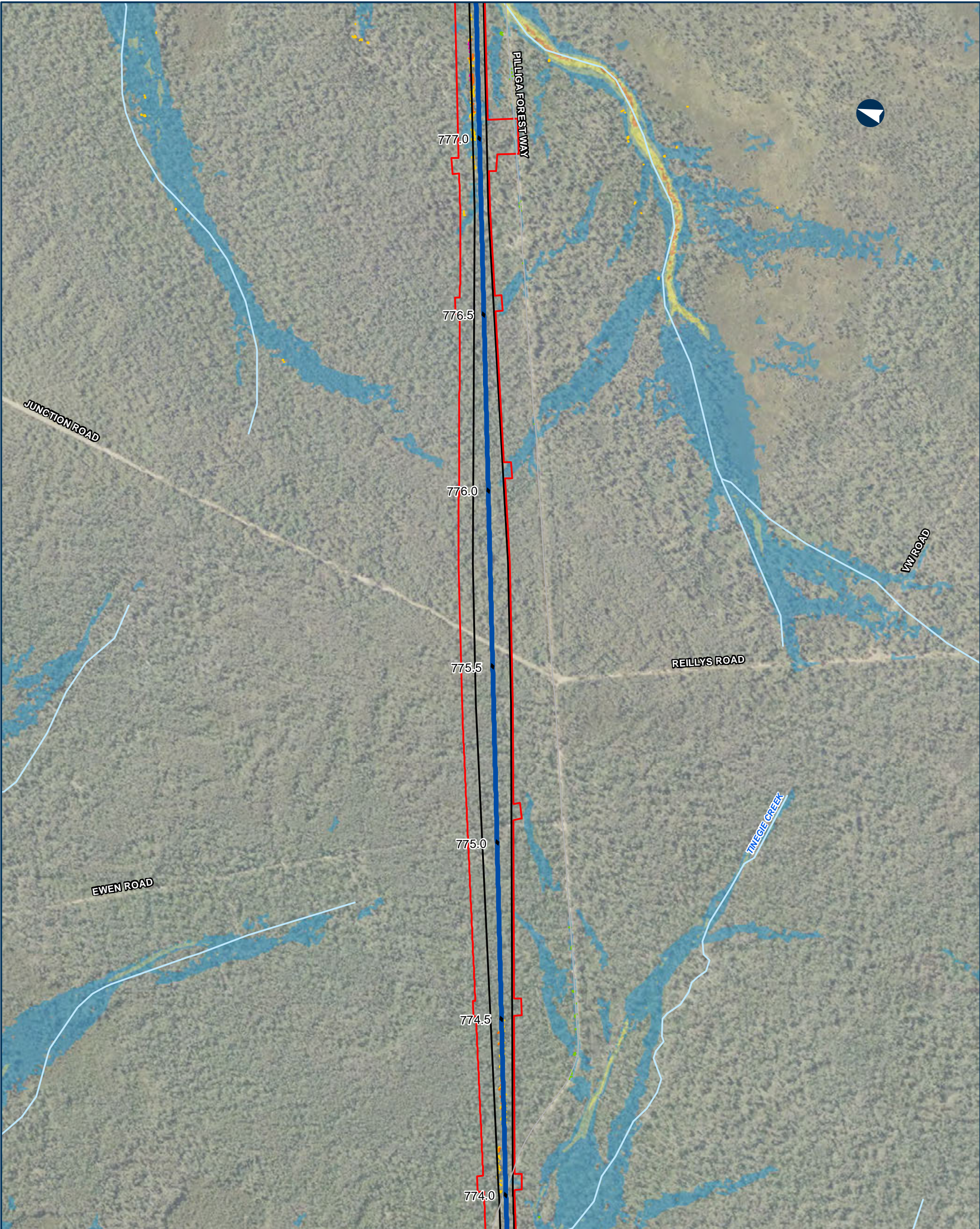
> 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.76

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

Alignment

Sub arterial road

Watercourse

The proposal

Rail Corridor

Afflux contour

-300mm

-200mm

100mm

200mm

Area of departure

Other non-urban >300mm increase

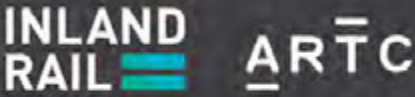
Existing Flood Depth

0.0m - 0.25m

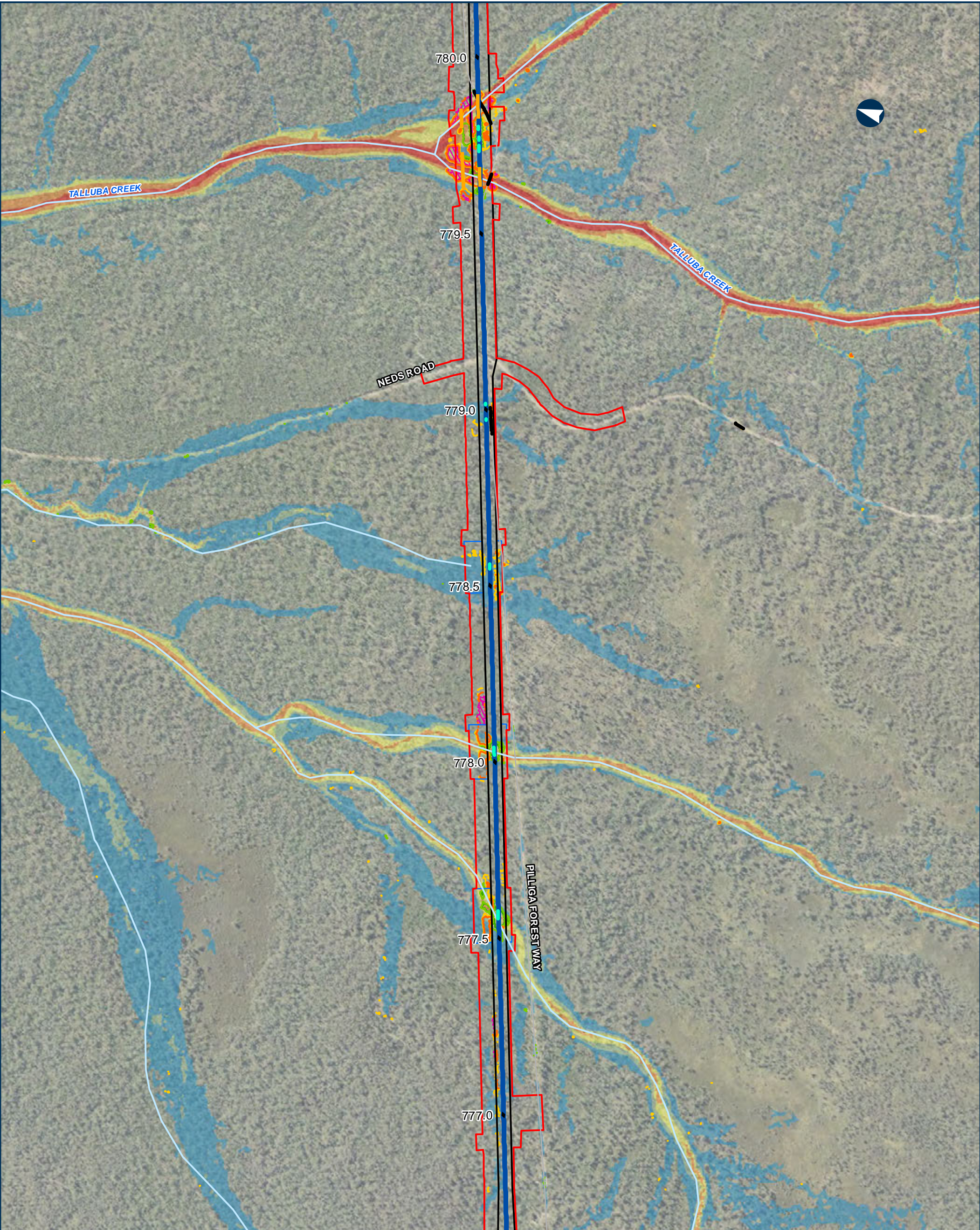
0.25m - 0.5m

0.5m - 1.0m

1.0m - 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.77

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

Watercourse

The proposal

Drainage Control Area

Rail Corridor
- Afflux contour

-300mm

-200mm

100mm

200mm

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

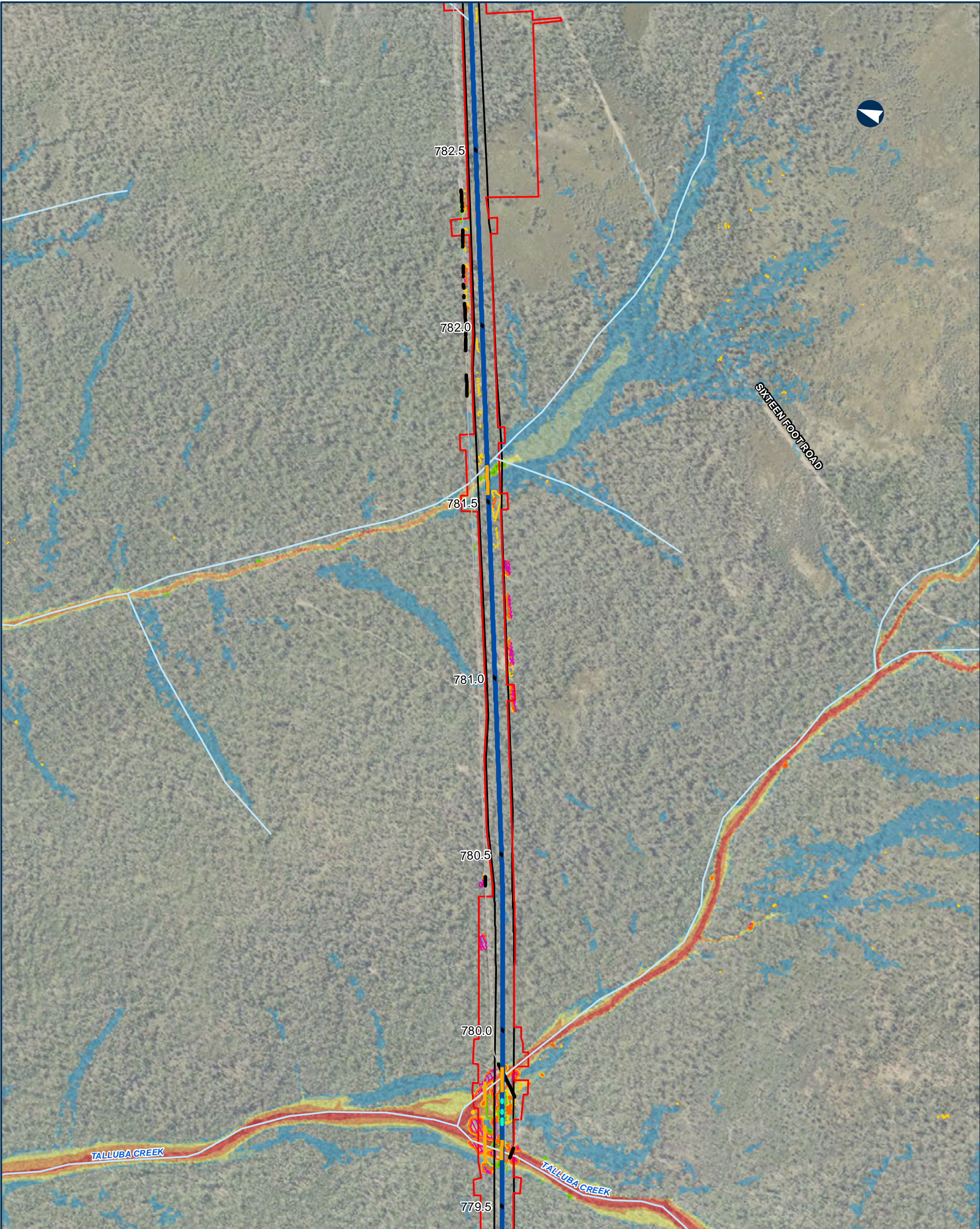
> 2.0m



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NARROMINE TO NARRABRI QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.78

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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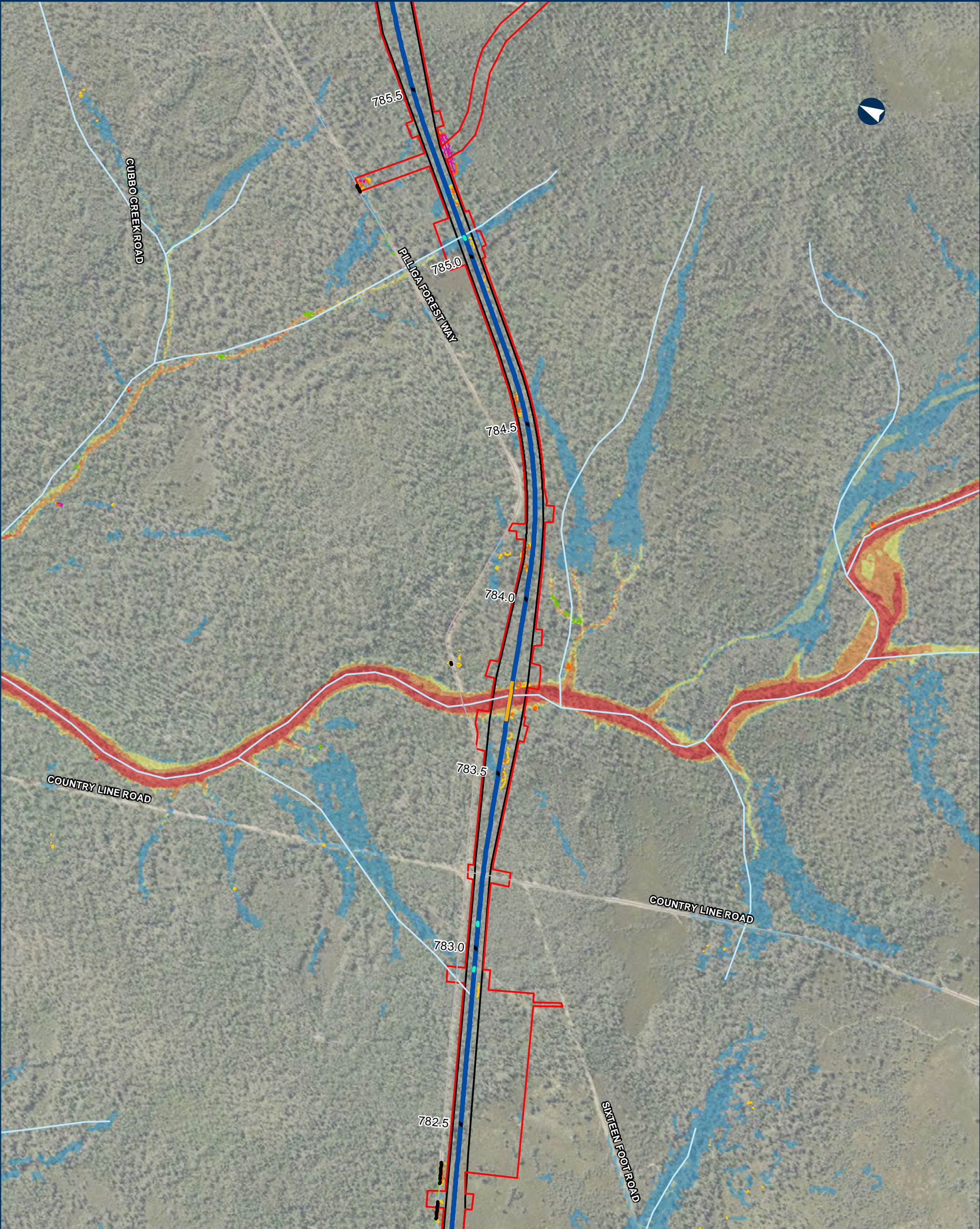
Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- | | | |
|--|---|---|
| <ul style="list-style-type: none">BridgeCulvertRoad QDL departureAlignmentSub arterial roadWatercourseThe proposalRail Corridor | Afflux contour <ul style="list-style-type: none">-300mm-200mm100mm200mm Area of departure <ul style="list-style-type: none">Other non-urban >300mm increase | 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 - 5% AEP

Appendix I - Figure 1.2.79

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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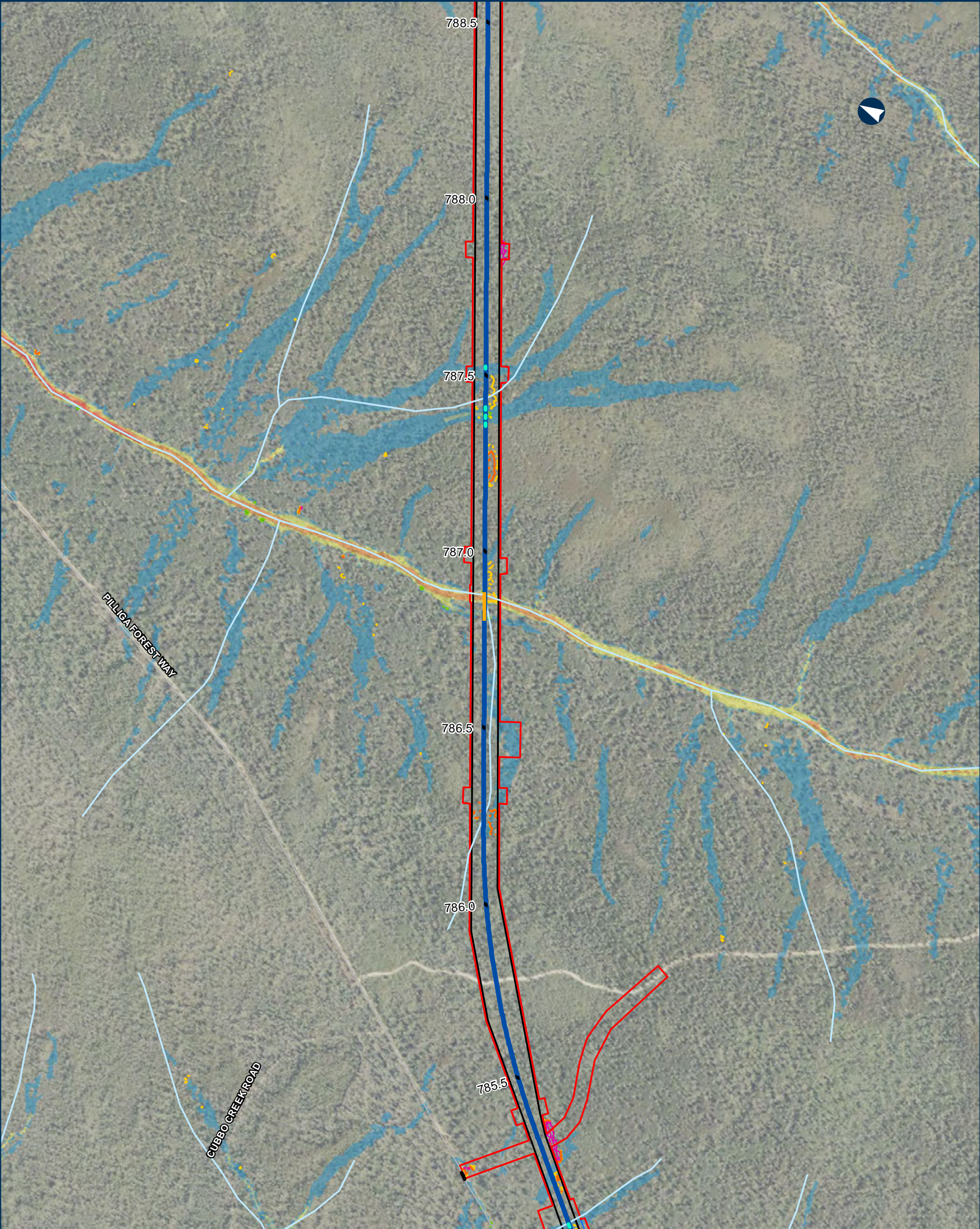
Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

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



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NARROMINE TO NARRABRI QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.80

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

Area of departure

Other non-urban >300mm increase

Existing Flood Depth

0.0m - 0.25m

0.25m - 0.5m

0.5m - 1.0m

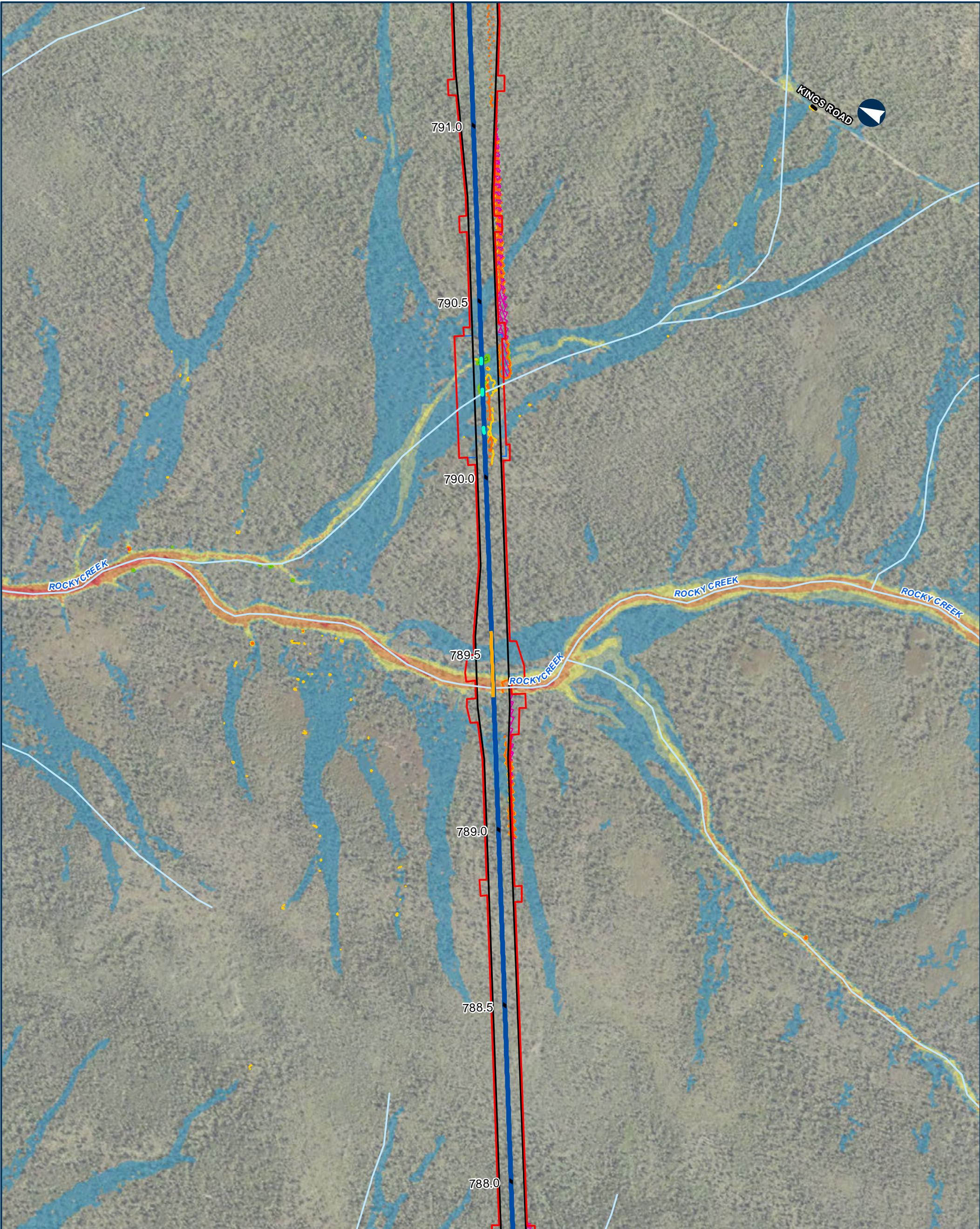
1.0m - 2.0m

> 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.81

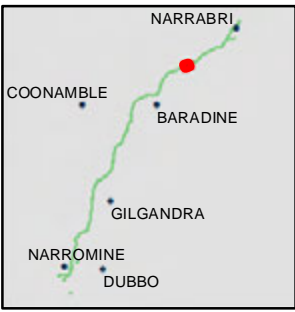
0 200 400 Metres

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
- 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 - 5% AEP

Appendix I - Figure 1.2.82

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

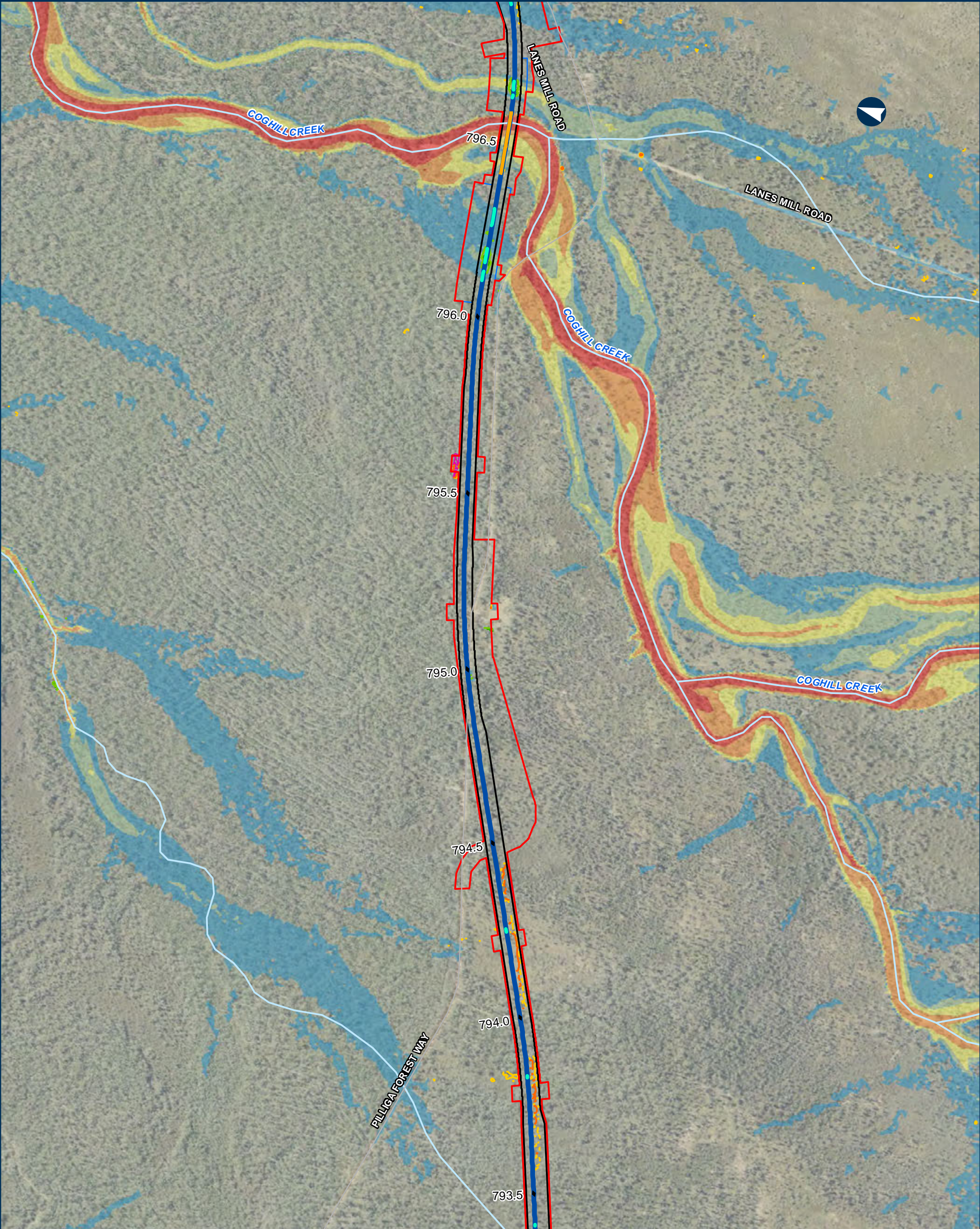
- | | | |
|--|---|---|
| <div>Culvert</div> <div>Road ODL departure</div> <div>Alignment</div> <div>Sub arterial road</div> <div>Watercourse</div> <div>The proposal</div> <div>Rail Corridor</div> | <div>Afflux contour</div> <div>-300mm</div> <div>-200mm</div> <div>100mm</div> <div>200mm</div> <div>Area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



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NARROMINE TO NARRABRI

QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.83

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

Area of departure

Other non-urban >300mm increase

Existing Flood Depth

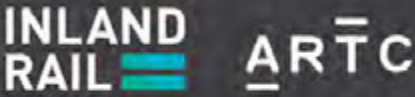
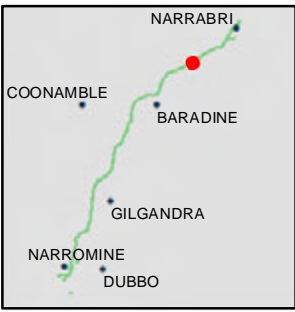
0.0m - 0.25m

0.25m - 0.5m

0.5m - 1.0m

1.0m - 2.0m

> 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.84

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

Alignment

Sub arterial road

Watercourse

The proposal

Drainage Control Area

Rail Corridor
- Afflux contour

-300mm

-200mm

100mm

200mm

Area of departure

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

0.0m - 0.25m

0.25m - 0.5m

0.5m - 1.0m

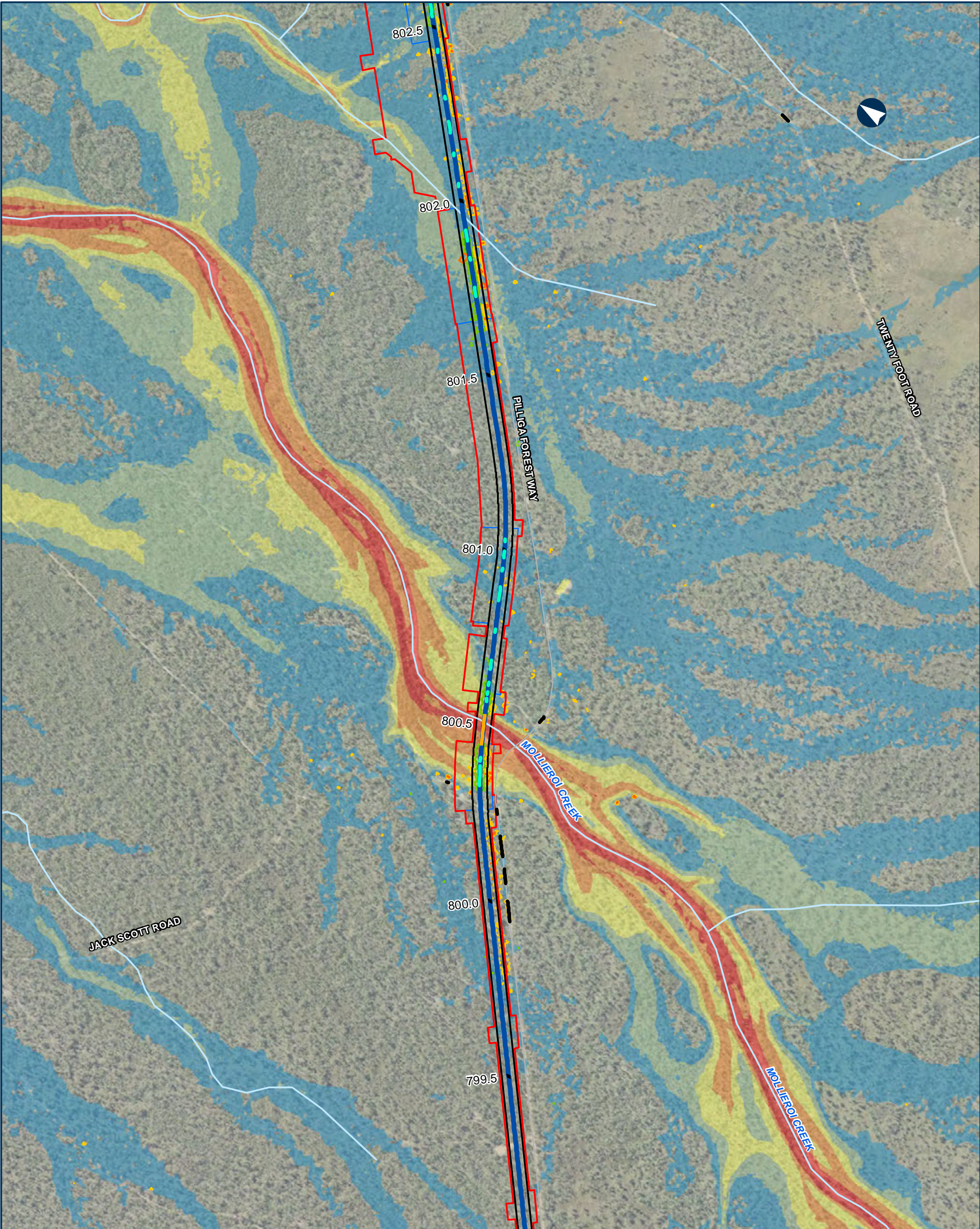
1.0m - 2.0m

> 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.85

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

Culvert

Road QDL departure

Alignment

Sub arterial road

Watercourse

The proposal

Drainage Control Area

Rail Corridor
- Afflux contour

-300mm

-200mm

100mm

200mm

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

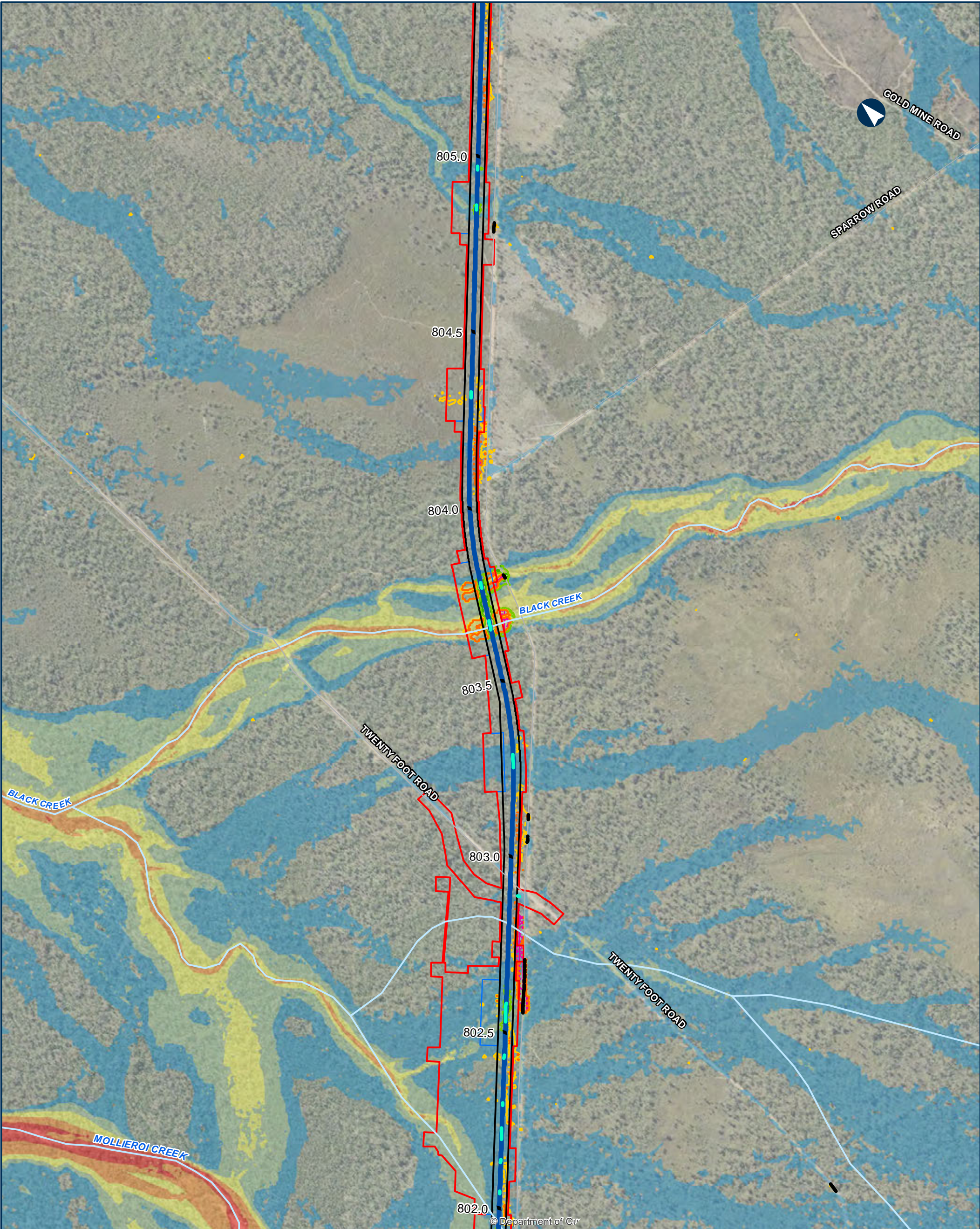
> 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.86

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

Afflux contour

- 300mm
- 200mm
- 100mm
- 200mm

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

Legend

- Culvert
- Road ODL departure
- Alignment
- Sub arterial road
- Local road
- Watercourse
- The proposal
- Drainage Control Area
- Rail Corridor

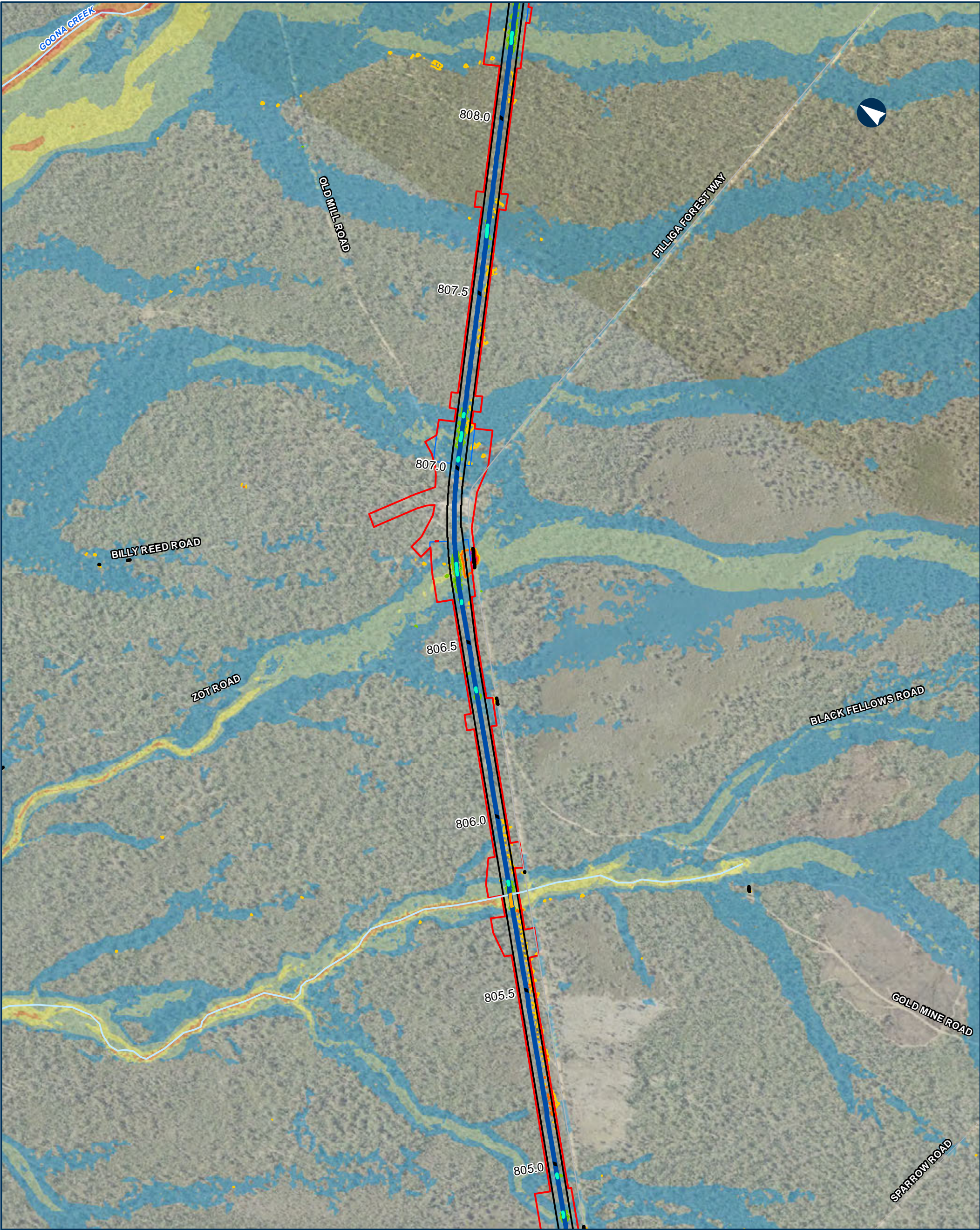
Inset Map

Map showing the rail route from Narromine to Narrabri, with intermediate stops at Coonamble, Baradine, Gilgandra, and Dubbo.

INLAND RAIL

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NARROMINE TO NARRABRI QDL departures - Afflux - 5% AEP Appendix I - Figure 1.2.87

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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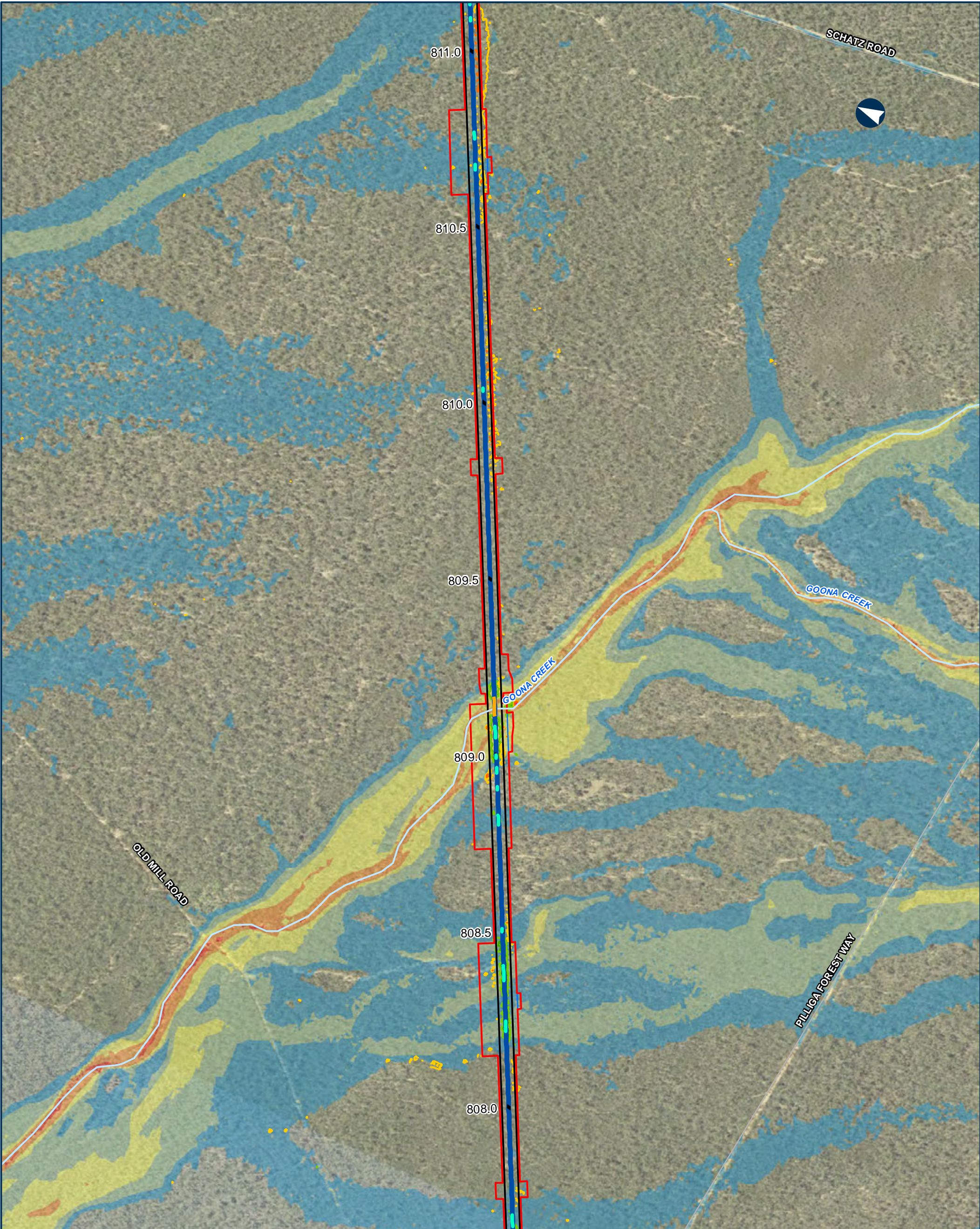
Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- 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
 - 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 - 5% AEP

Appendix I - Figure 1.2.88

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

Alignment

Sub arterial road

Local road

Watercourse

The proposal

Drainage Control Area

Rail Corridor
- Afflux contour

-300mm

-200mm

100mm

200mm

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

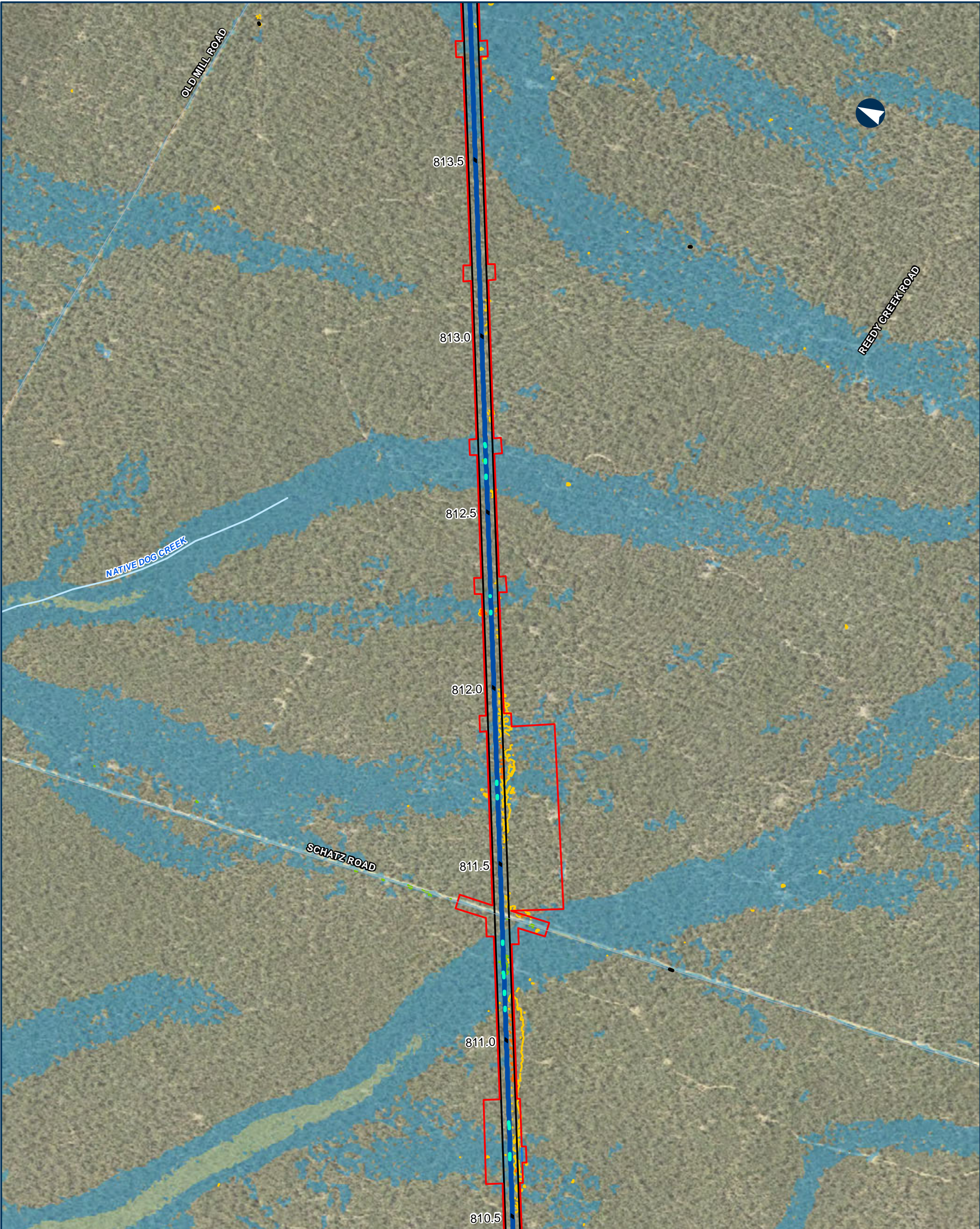
> 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.89

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

-200mm

100mm

200mm

Area of departure

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

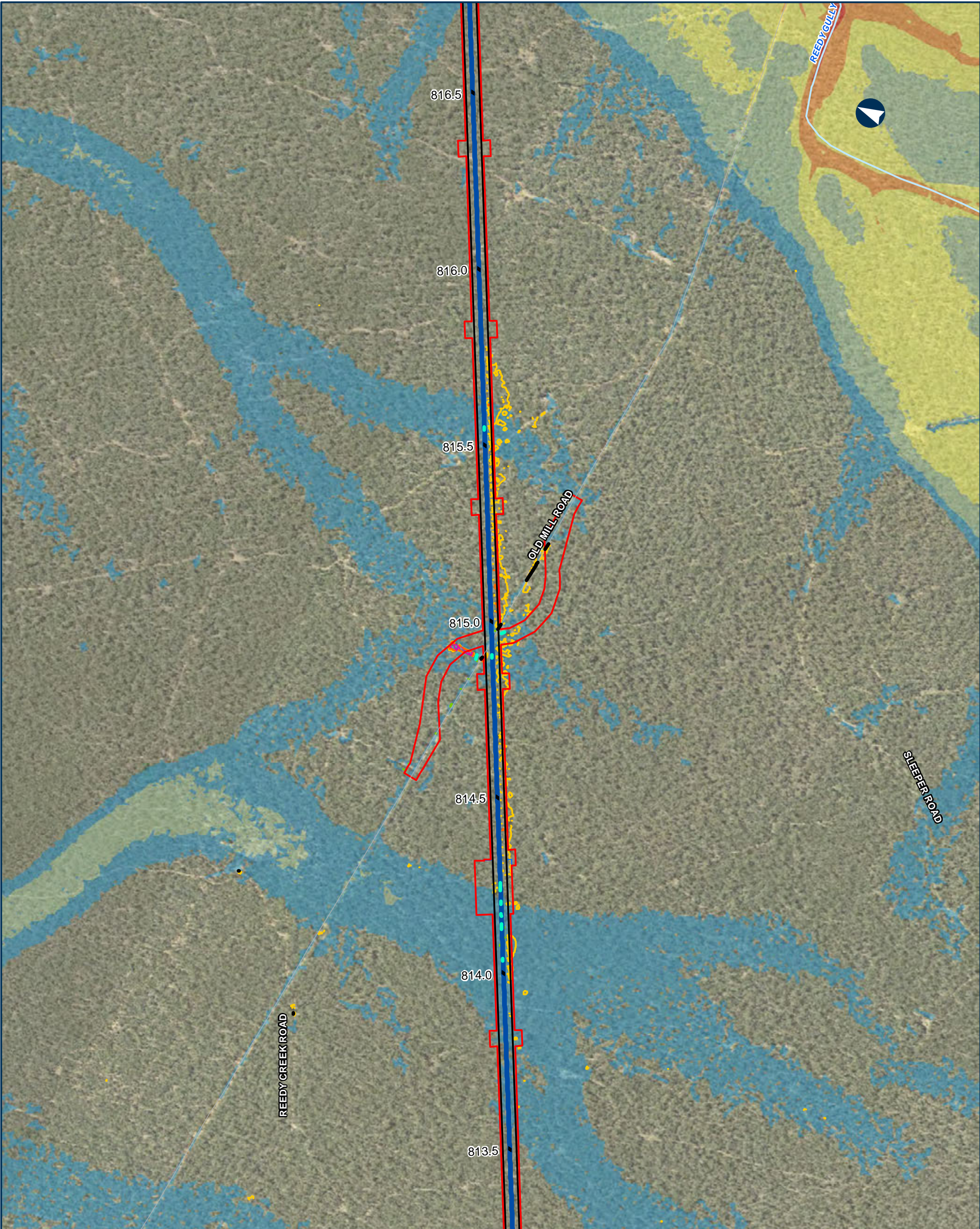
0.0m - 0.25m

0.25m - 0.5m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.90

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 ODL departure

Alignment

Local road

Watercourse

The proposal

Drainage Control Area

Rail Corridor
- Afflux contour

-200mm

100mm

200mm

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

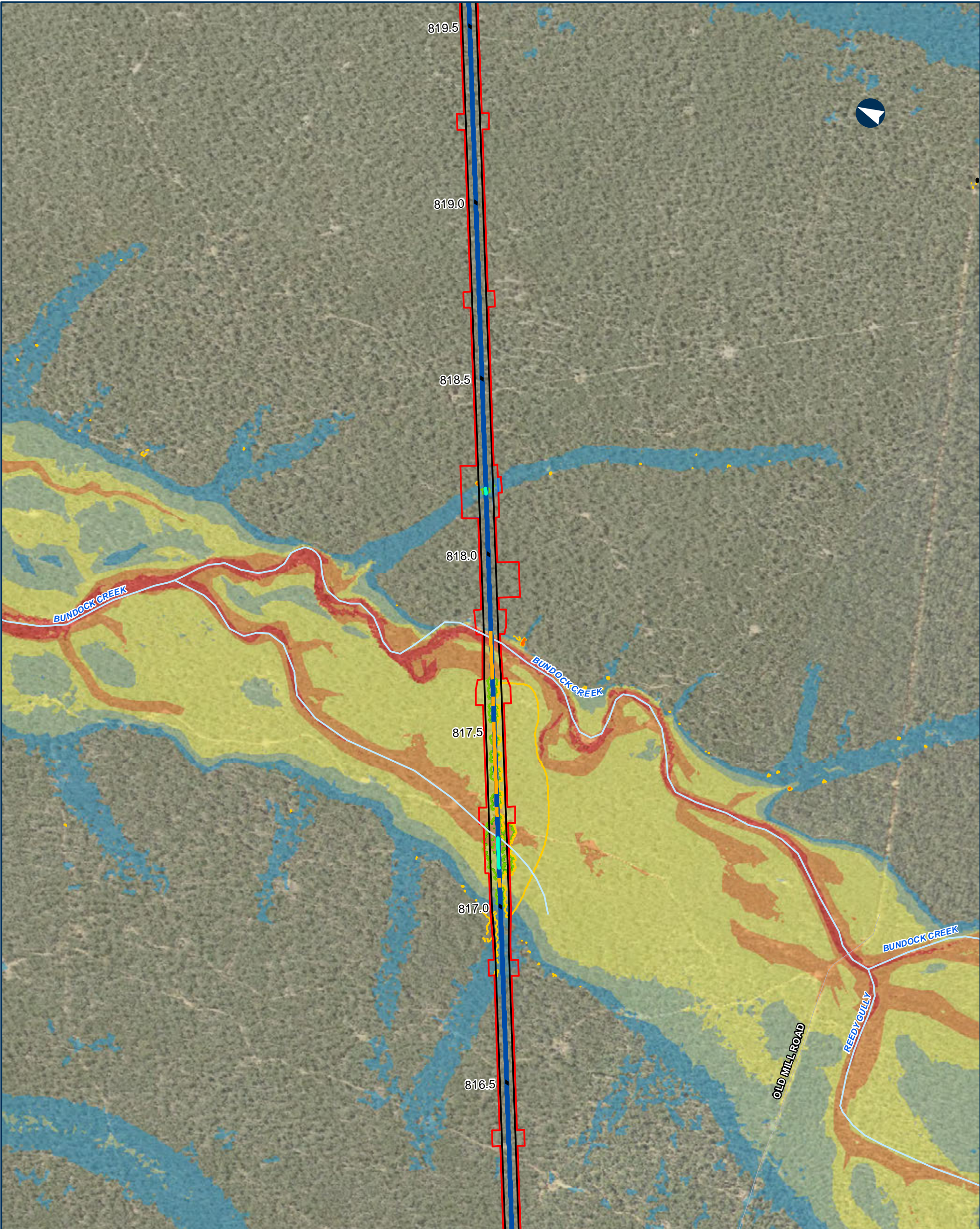
> 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.91

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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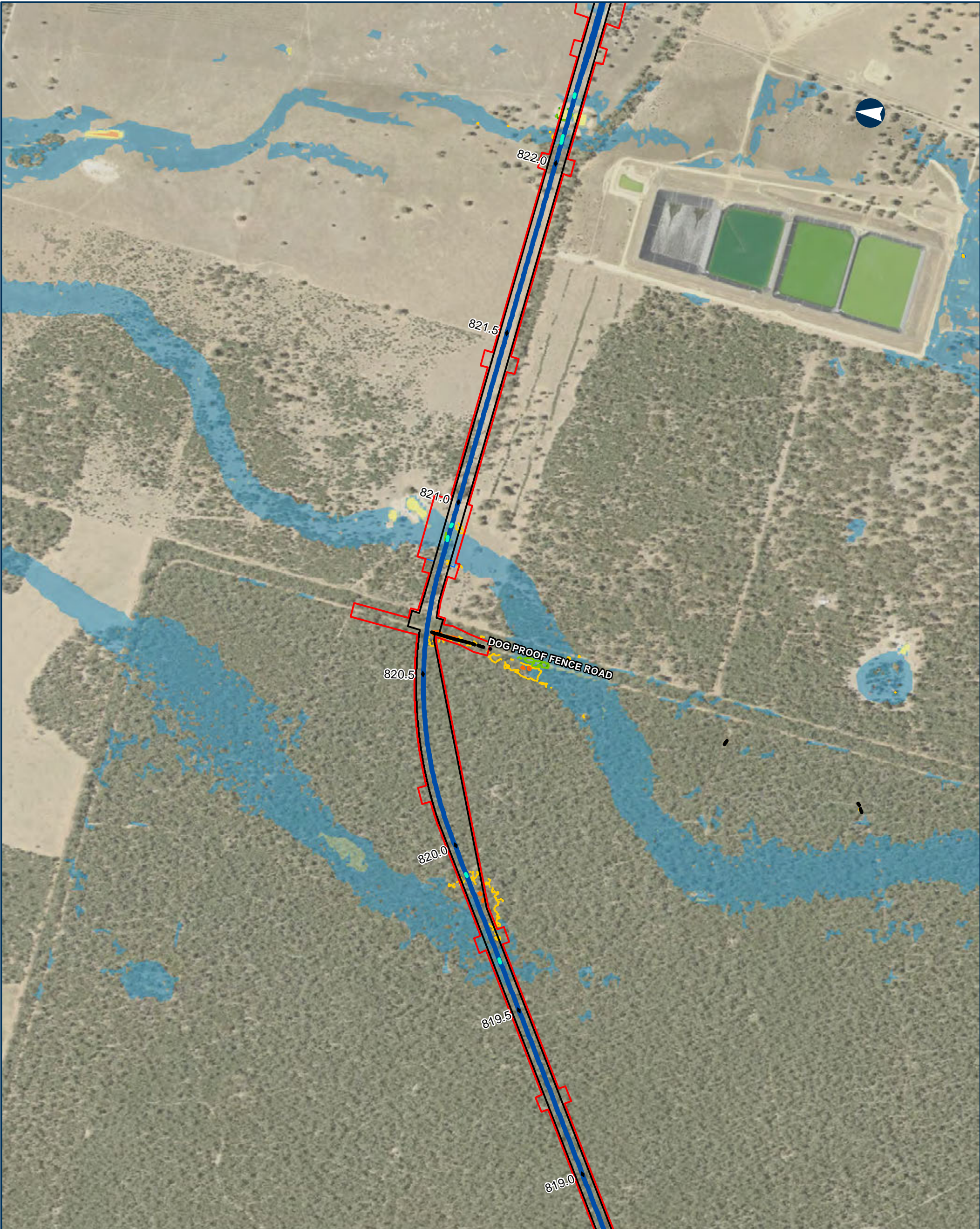
Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- | | | |
|---|---|---|
| <ul style="list-style-type: none">BridgeCulvertRoad QDL departureAlignmentLocal roadWatercourseThe proposalDrainage Control AreaRail Corridor | <ul style="list-style-type: none">Afflux contour<ul style="list-style-type: none">-300mm-200mm100mm200mmArea of departure<ul style="list-style-type: none">Other 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 - 5% AEP

Appendix I - Figure 1.2.92

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 ODL departure

Alignment

Watercourse

The proposal

Drainage Control Area

Rail Corridor
- Afflux contour

-300mm

-200mm

100mm

200mm

Area of departure

Urban and Infrastructure >100mm increase

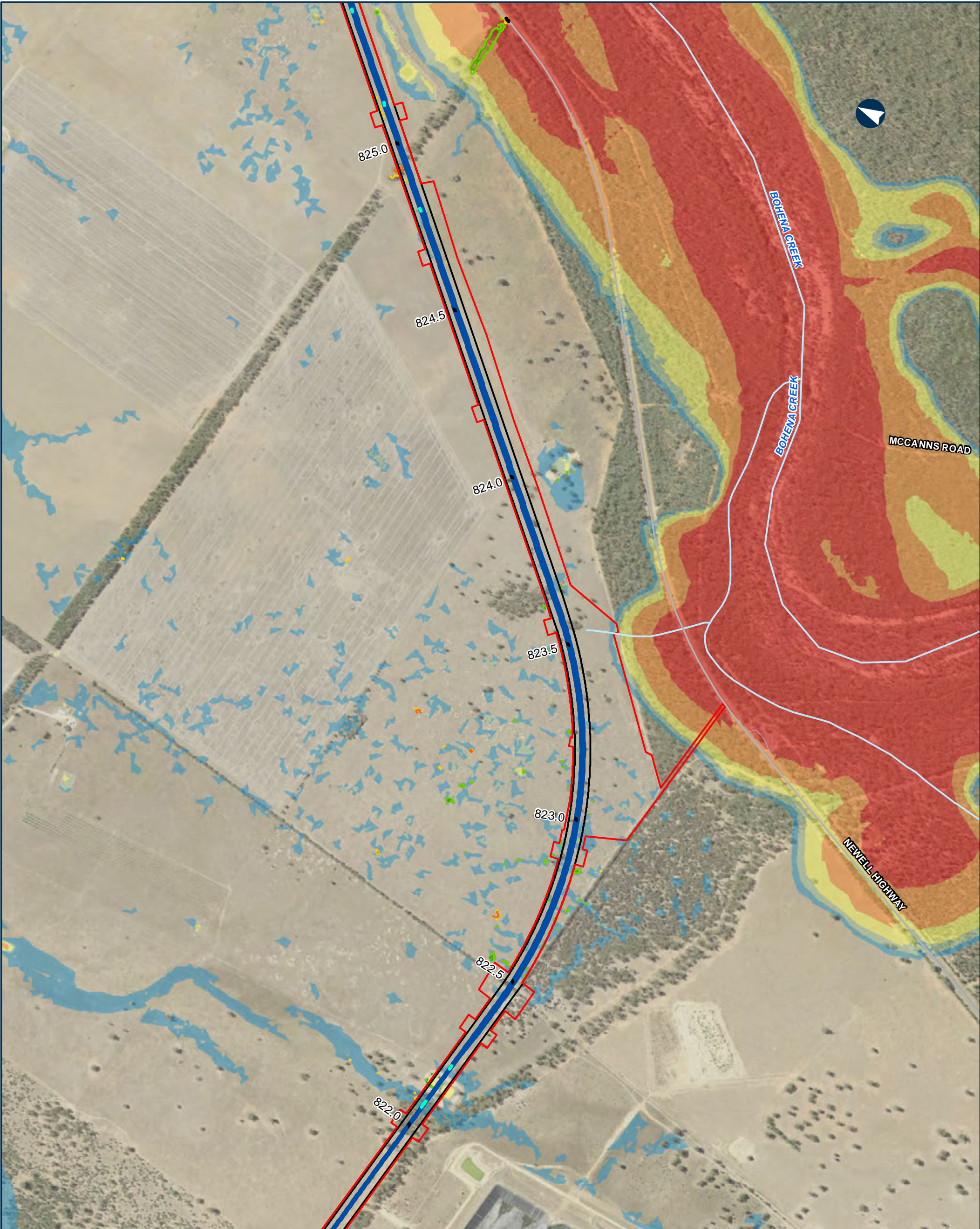
- Existing Flood Depth
- 0.0m - 0.25m
- 0.25m - 0.5m
- 0.5m - 1.0m
- 1.0m - 2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.93

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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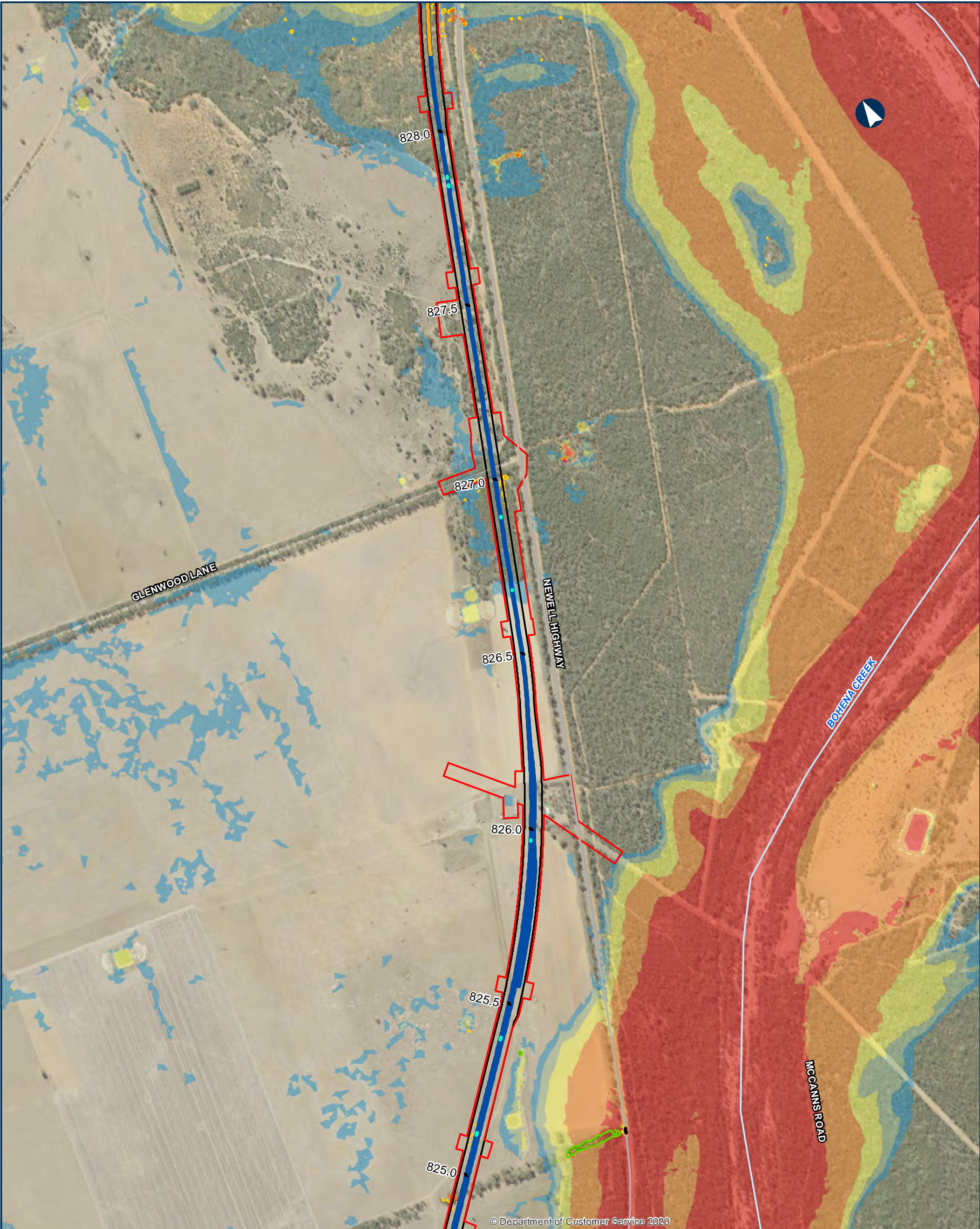
Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

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



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QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.94

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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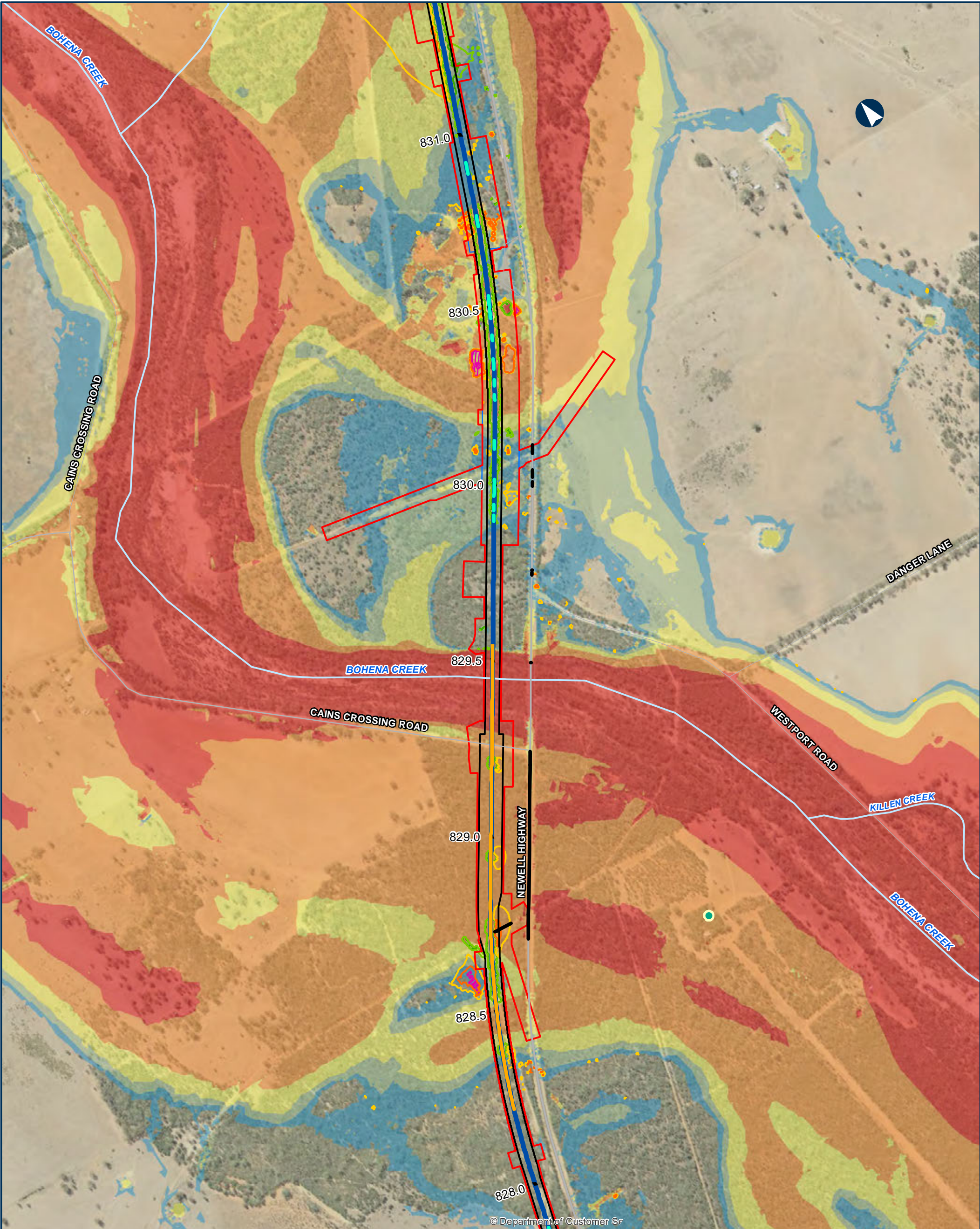
Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Bridge
 - Culvert
 - Road QDL departure
 - Alignment
 - Primary road
 - Local road
 - Watercourse
 - The proposal
 - Rail Corridor
- Afflux contour**
- 300mm
 - 200mm
 - 100mm
 - 200mm
- 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 - 5% AEP

Appendix I - Figure 1.2.95

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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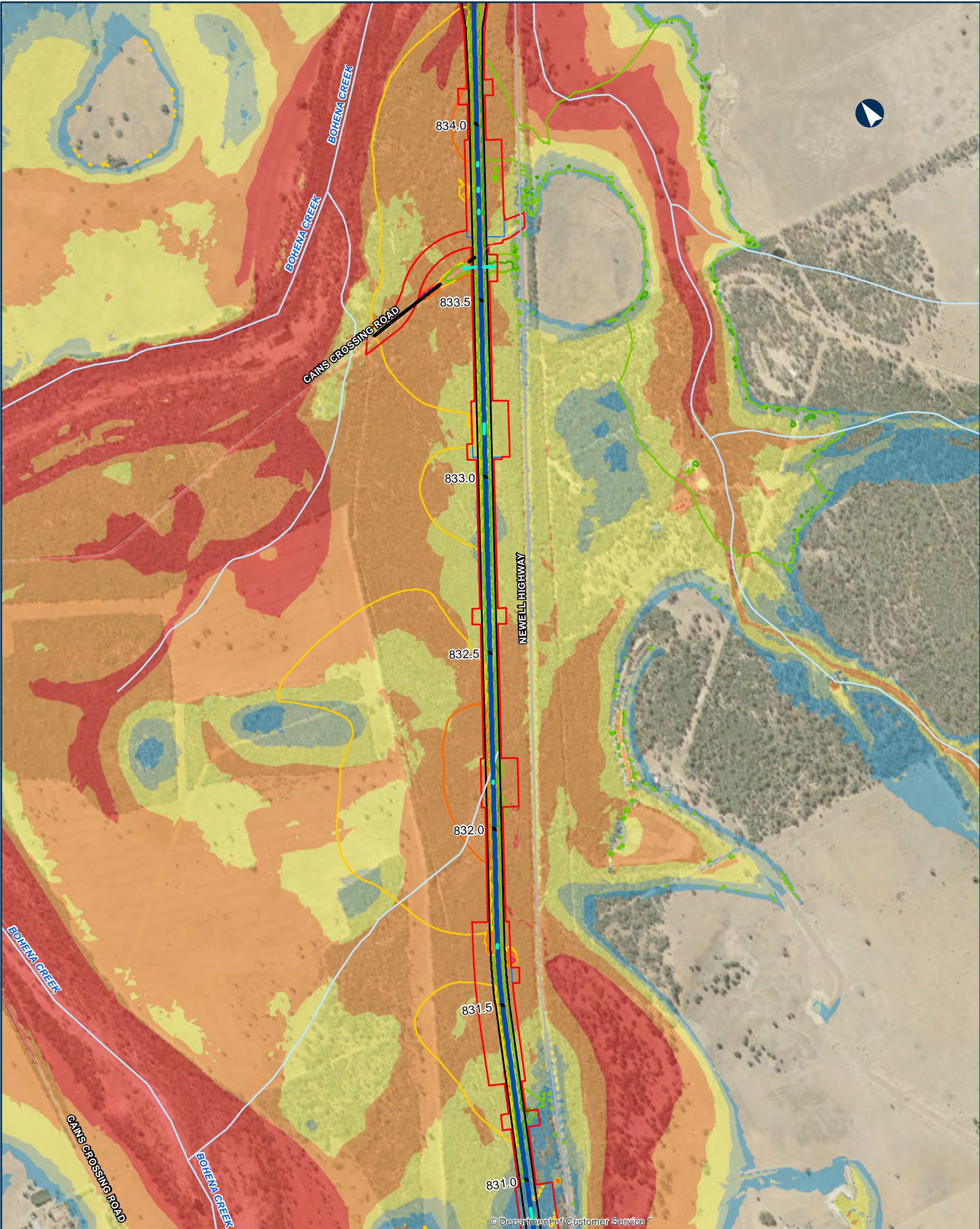
Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Habitable floor departure
 - Bridge
 - Culvert
 - Road QDL departure
 - Alignment
 - Primary road
 - Sub arterial road
 - Local road
 - Watercourse
 - The proposal
 - Drainage Control Area
- Afflux contour**
- 300mm
 - 200mm
 - 100mm
 - 200mm
- 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 - 5% AEP

Appendix I - Figure 1.2.96

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

Afflux contour

- 300mm
- 200mm
- 100mm
- 200mm

Area of departure

- Other non-urban >300mm increase

Existing Flood Depth

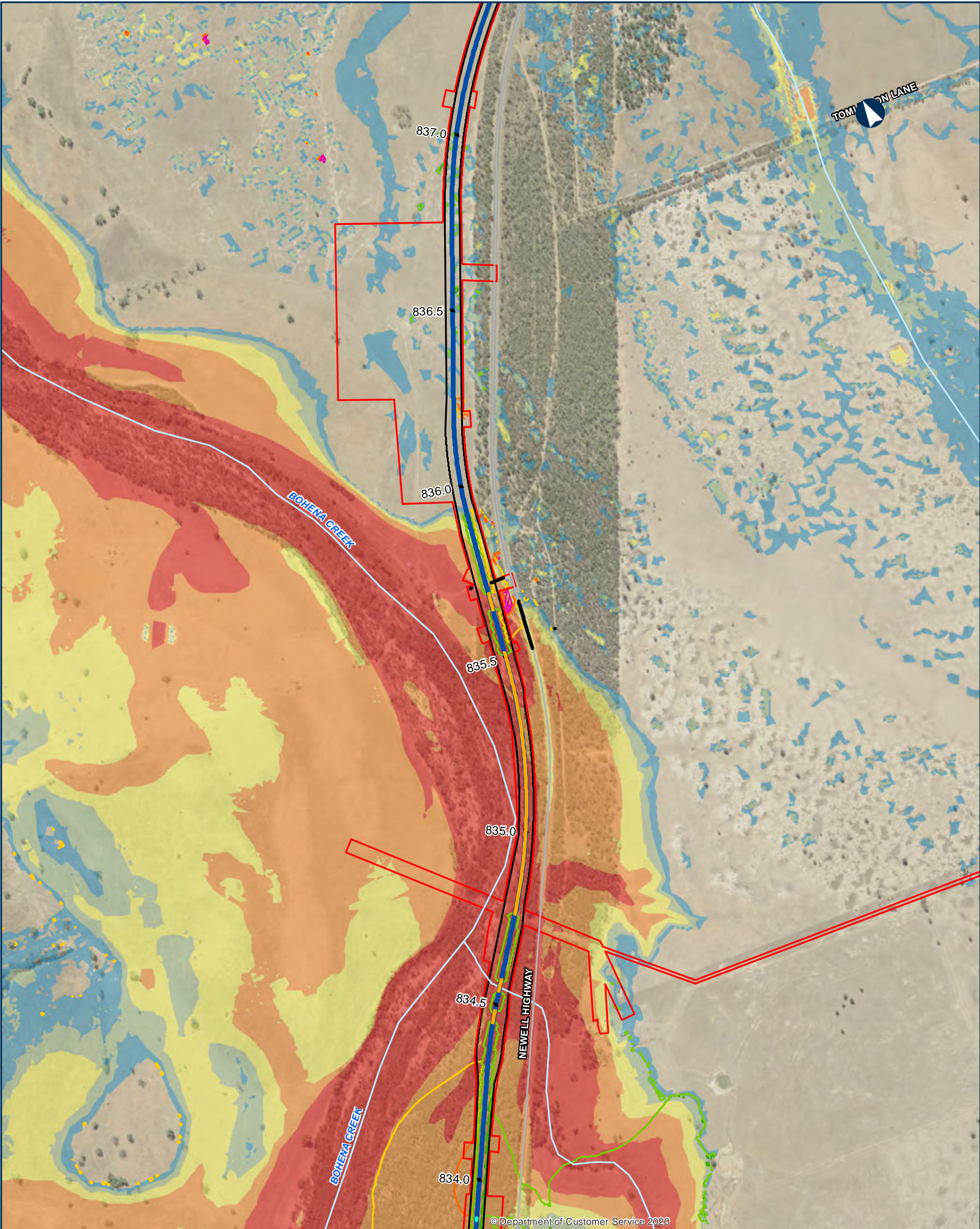
- 0.0m - 0.25m
- 0.25m - 0.5m
- 0.5m - 1.0m
- 1.0m - 2.0m
- > 2.0m

Legend

- Culvert
- Road ODL departure
- Alignment
- Primary road
- Local road
- Watercourse
- The proposal
- Drainage Control Area
- Rail Corridor

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QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.97

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



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QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.98

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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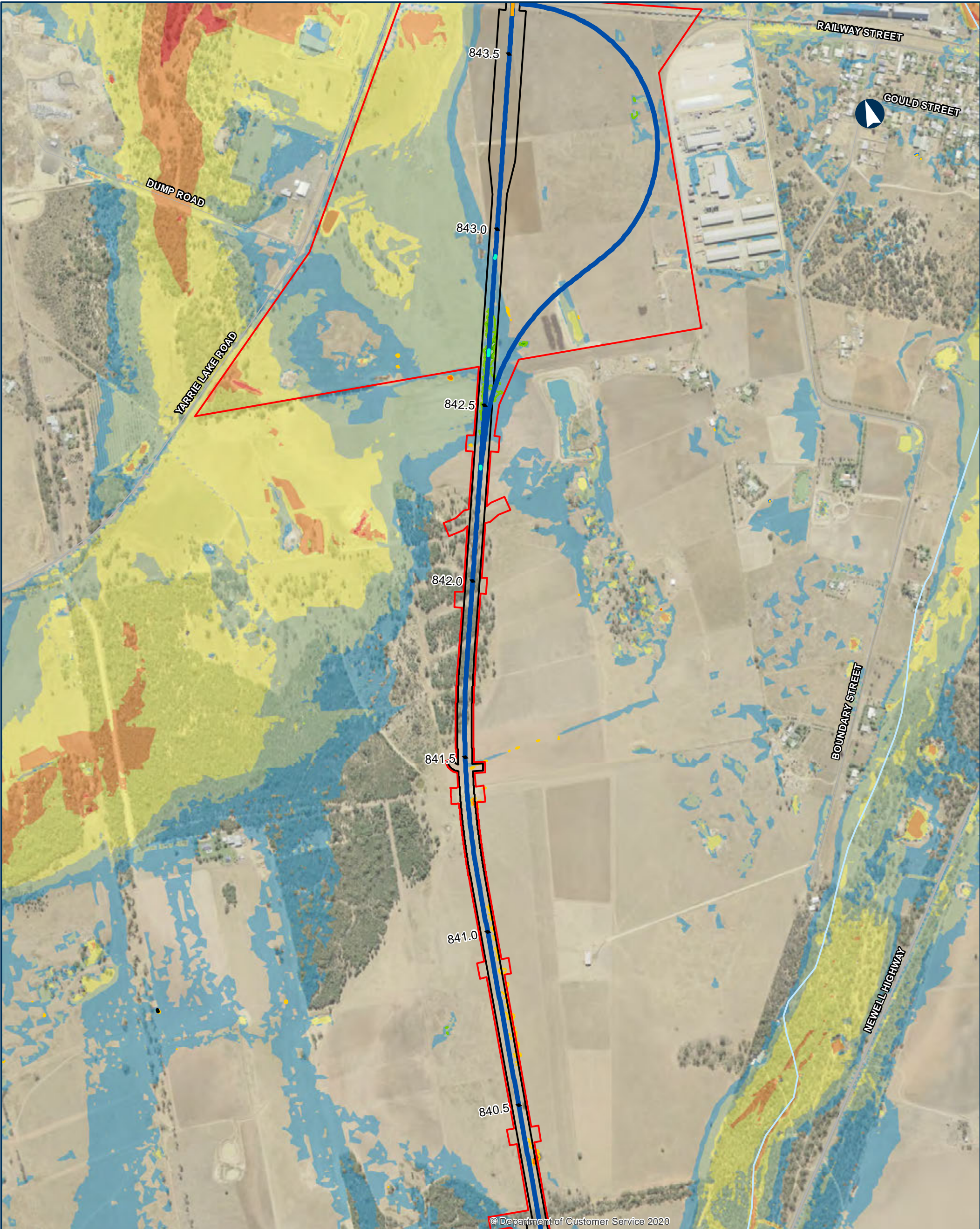
Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- | | | |
|--------------------|---------------------------------|--------------|
| Culvert | -300mm | 0.0m - 0.25m |
| Road ODL departure | -200mm | 0.25m - 0.5m |
| Alignment | 100mm | 0.5m - 1.0m |
| Primary road | 200mm | 1.0m - 2.0m |
| Local road | Area of departure | > 2.0m |
| Watercourse | Other non-urban >300mm increase | |
| The proposal | | |
| Rail Corridor | | |



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QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.99

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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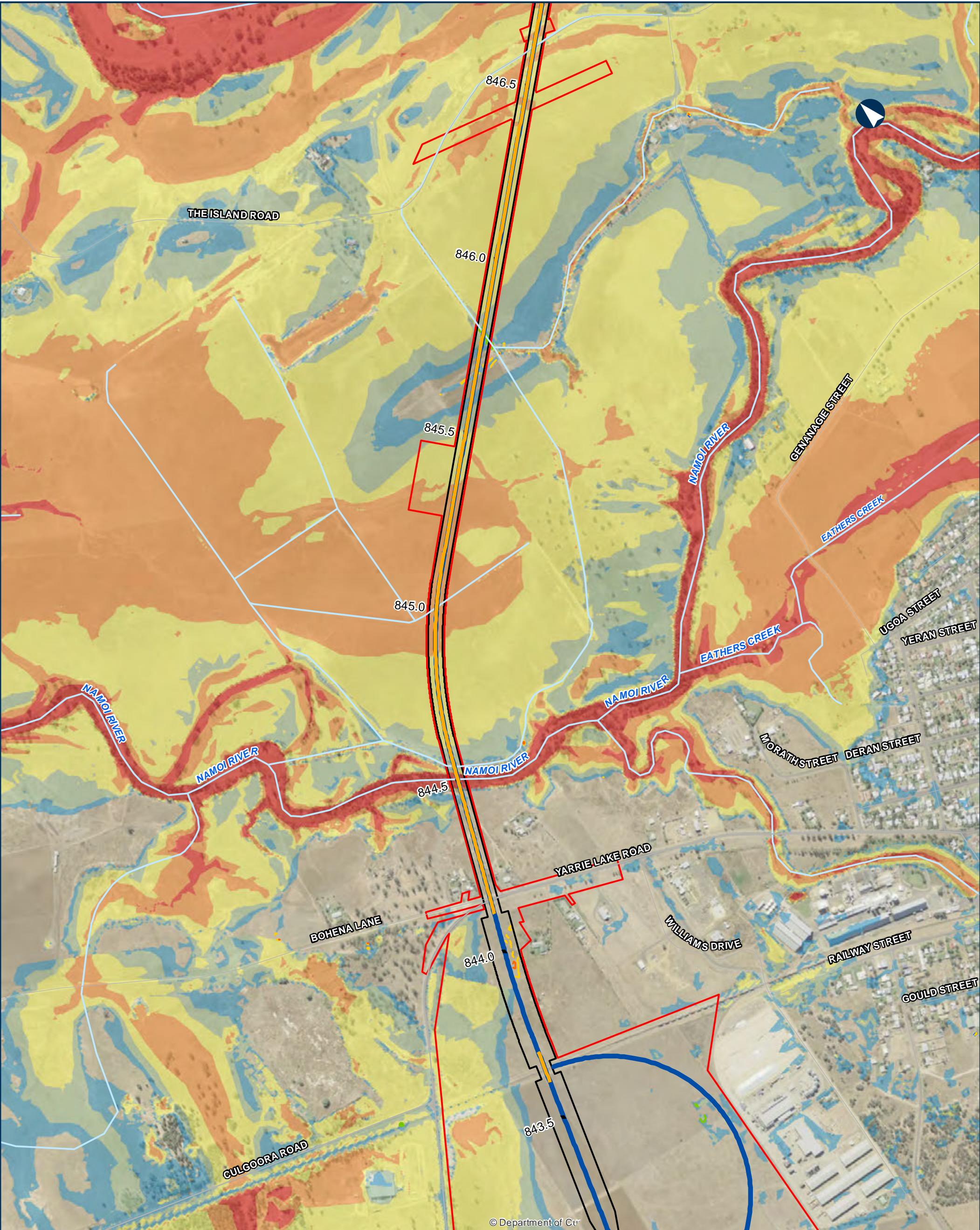
Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Bridge
 - Culvert
 - Road QDL departure
 - Alignment
 - Primary road
 - Sub arterial road
 - Local road
 - Watercourse
 - The proposal
 - Rail Corridor
- Afflux contour**
- 300mm
 - 200mm
 - 100mm
 - 200mm
- 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 - 5% AEP

Appendix I - Figure 1.2.100

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

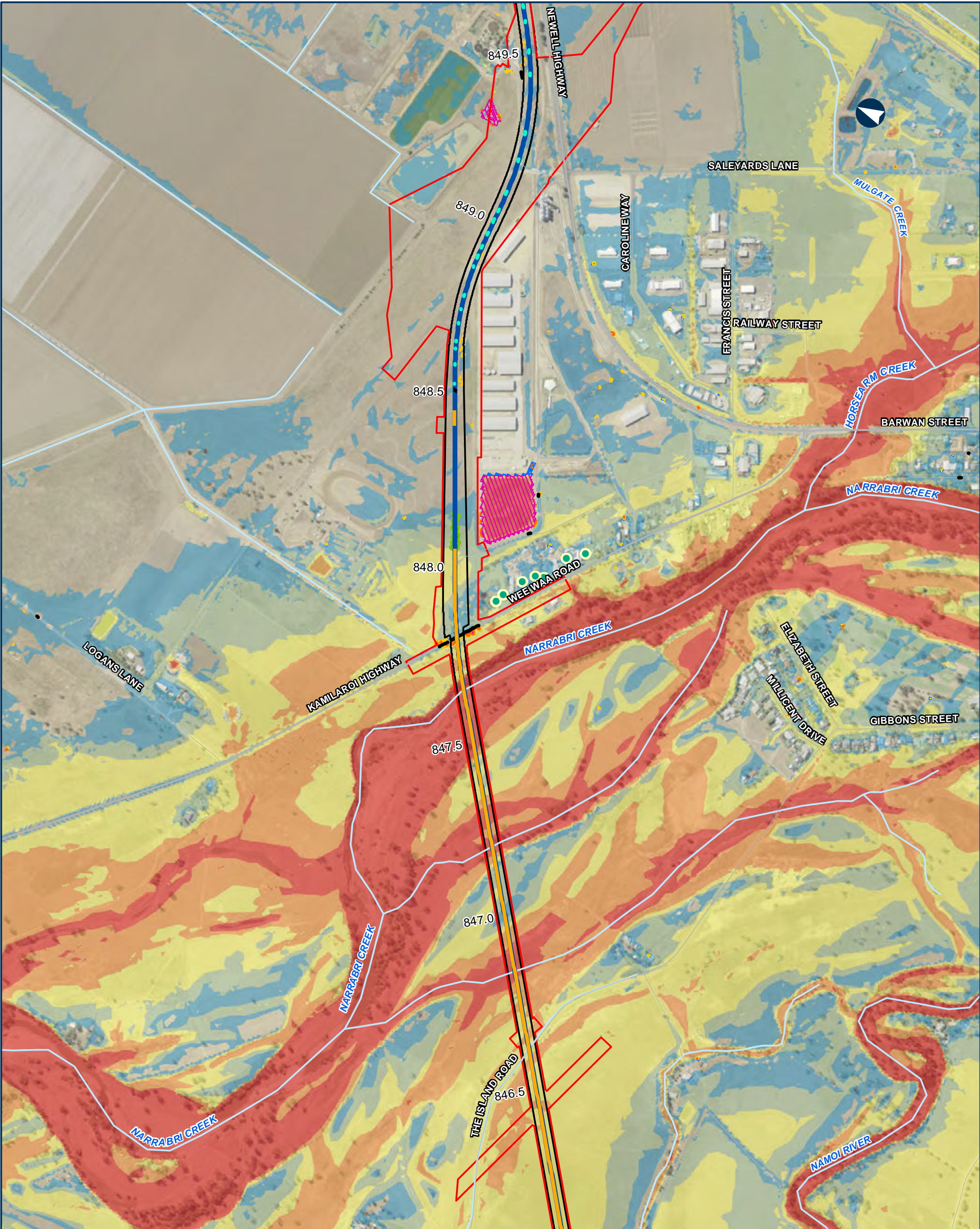
- Bridge
 - Alignment
 - Sub arterial road
 - Local road
 - Watercourse
 - The proposal
 - Rail Corridor
- Afflux contour**
- 300mm
 - 200mm
 - 100mm
 - 200mm
 - 300mm
- Area of departure**
- Urban and Infrastructure >100mm increase
 - Other non-urban >300mm increase

- 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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NARROMINE TO NARRABRI

QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.101

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

Bridge

Culvert

Road QDL departure

Alignment

Primary road

Local road

Watercourse

The proposal

Rail Corridor
- Afflux contour

-300mm

-200mm

100mm

200mm

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 - 5% AEP

Appendix I - Figure 1.2.102

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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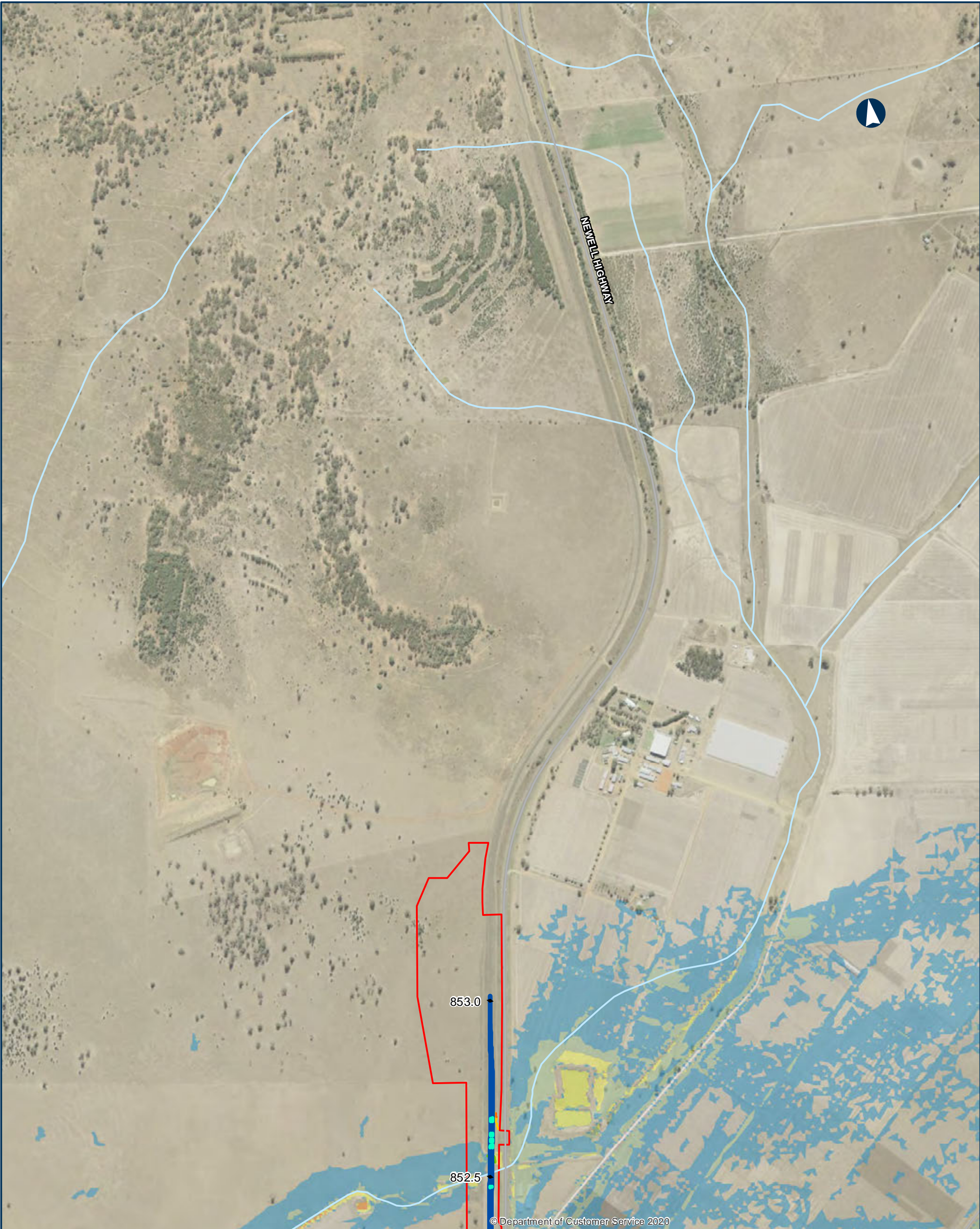
Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- | | | |
|--------------------|--|--------------|
| Culvert | -300mm | 0.0m - 0.25m |
| Road ODL departure | -200mm | 0.25m - 0.5m |
| Alignment | 100mm | 0.5m - 1.0m |
| Primary road | 200mm | 1.0m - 2.0m |
| Arterial road | Urban and Infrastructure >100mm increase | > 2.0m |
| Local road | Agricultural >200mm increase | |
| Watercourse | Other non-urban >300mm increase | |
| The proposal | | |
| Rail Corridor | | |



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NARROMINE TO NARRABRI

QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.103

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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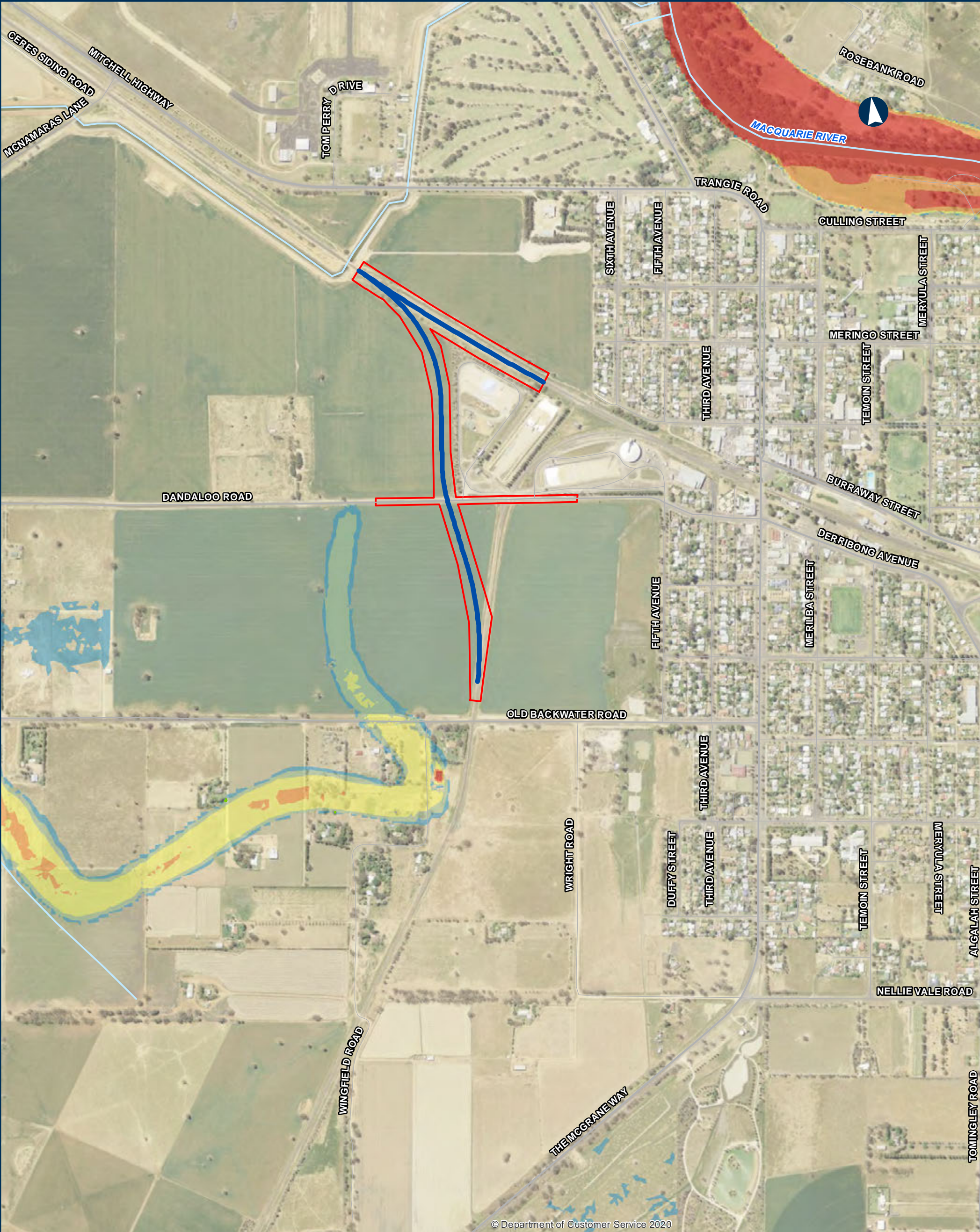
Date: 9/08/2022 Paper: A3
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

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



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NARROMINE TO NARRABRI QDL departures - Afflux - 5% AEP

Appendix I - Figure 1.2.104

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

- Alignment
 - Primary road
 - Arterial road
 - Sub arterial road
 - Local road
 - Watercourse
 - The proposal
- Afflux contour**
- 200mm
- 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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