

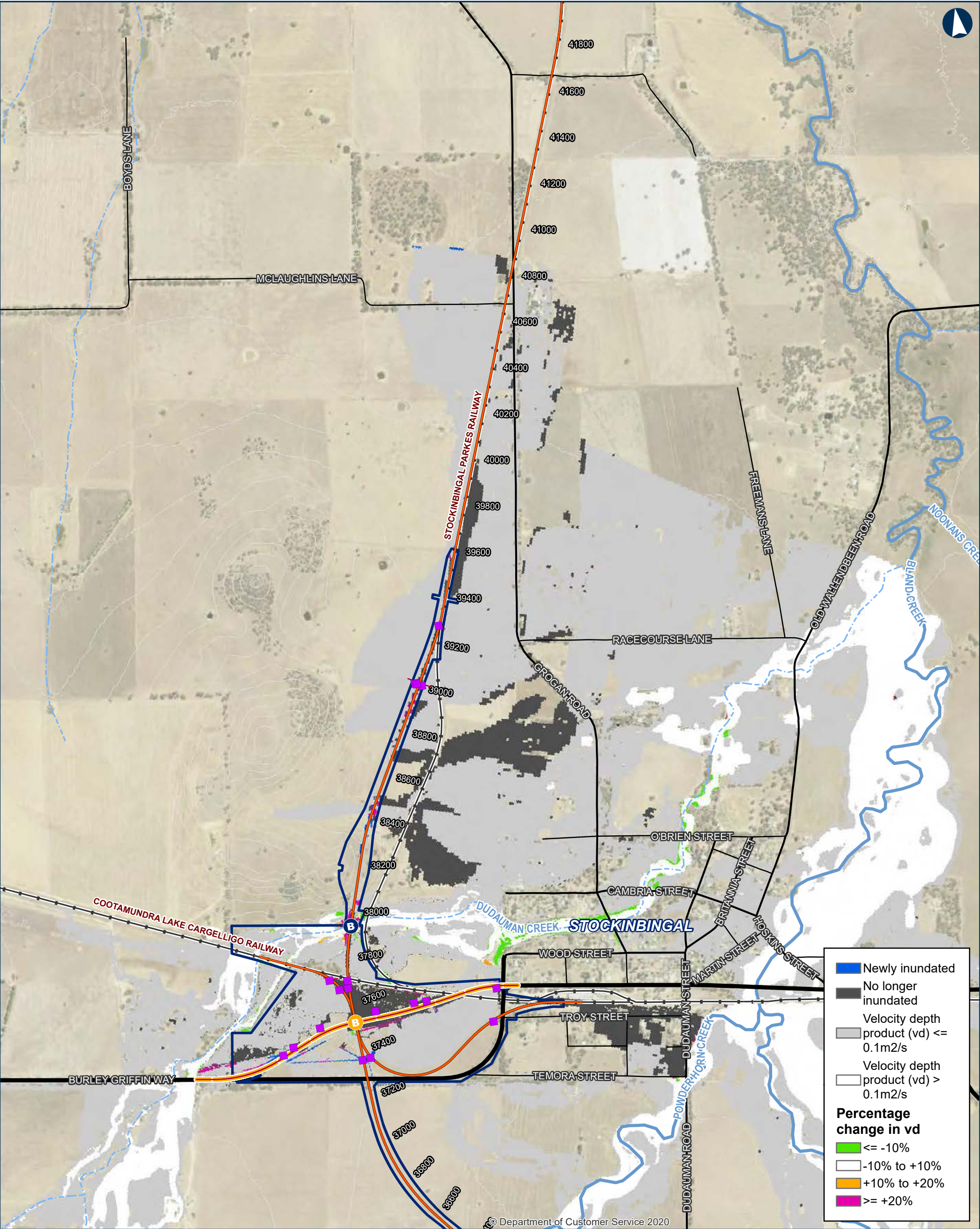
APPENDIX

D

Revised Hydrology and Flooding Impact Assessment Report

Part 7 of 7: Appendix D (4 of 4)

ILLABO TO STOCKINBINGAL RESPONSE TO SUBMISSIONS



ILLABO TO STOCKINBINGAL 5% AEP Change in Hazard

Map 9 of 9

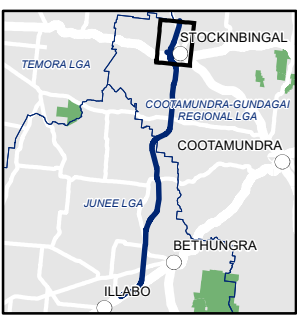
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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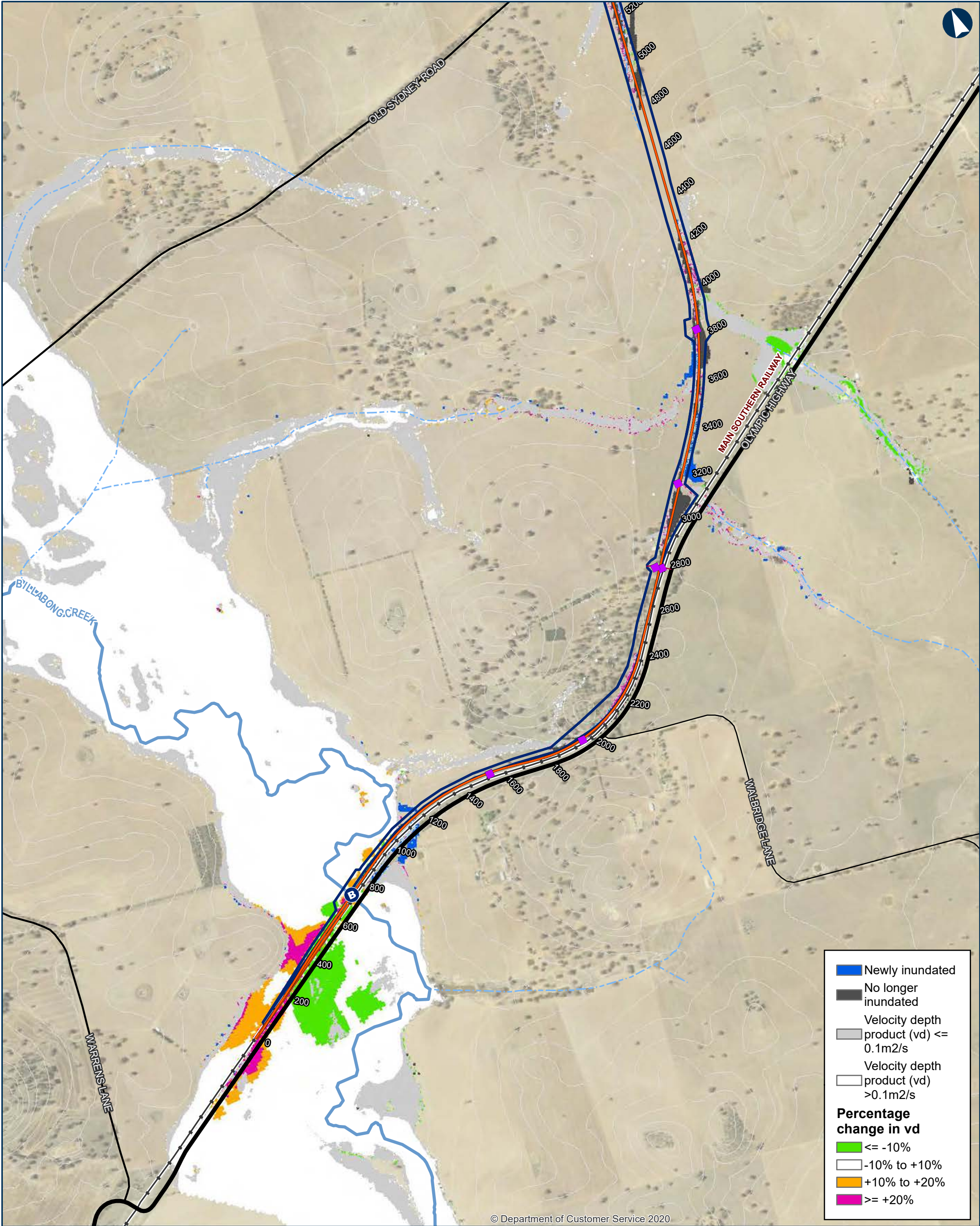
Date: 5/10/2023 Paper: A3
Author: IRDJV Scale: 1:15,000
Data Sources: IRDJV, ARTC, LPI

- Permanent acquisition boundary
- Chainage (distance in metres from southern limit of the proposal)
- 40950
- New track/track upgrade
- Burley Griffin Way realignment
- Overbridge
- Underbridge
- Culvert
- 5m Contours
- Existing rail
- Minor watercourse (Strahler SO 1-3)
- Major watercourse (Strahler SO 4-6)
- Local road
- Sub-arterial road
- Arterial road



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ILLABO TO STOCKINBINGAL 2% AEP Change in Hazard

Map 1 of 9

0 200 400 Metres

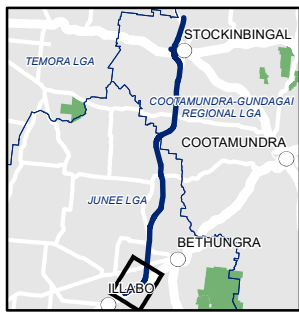
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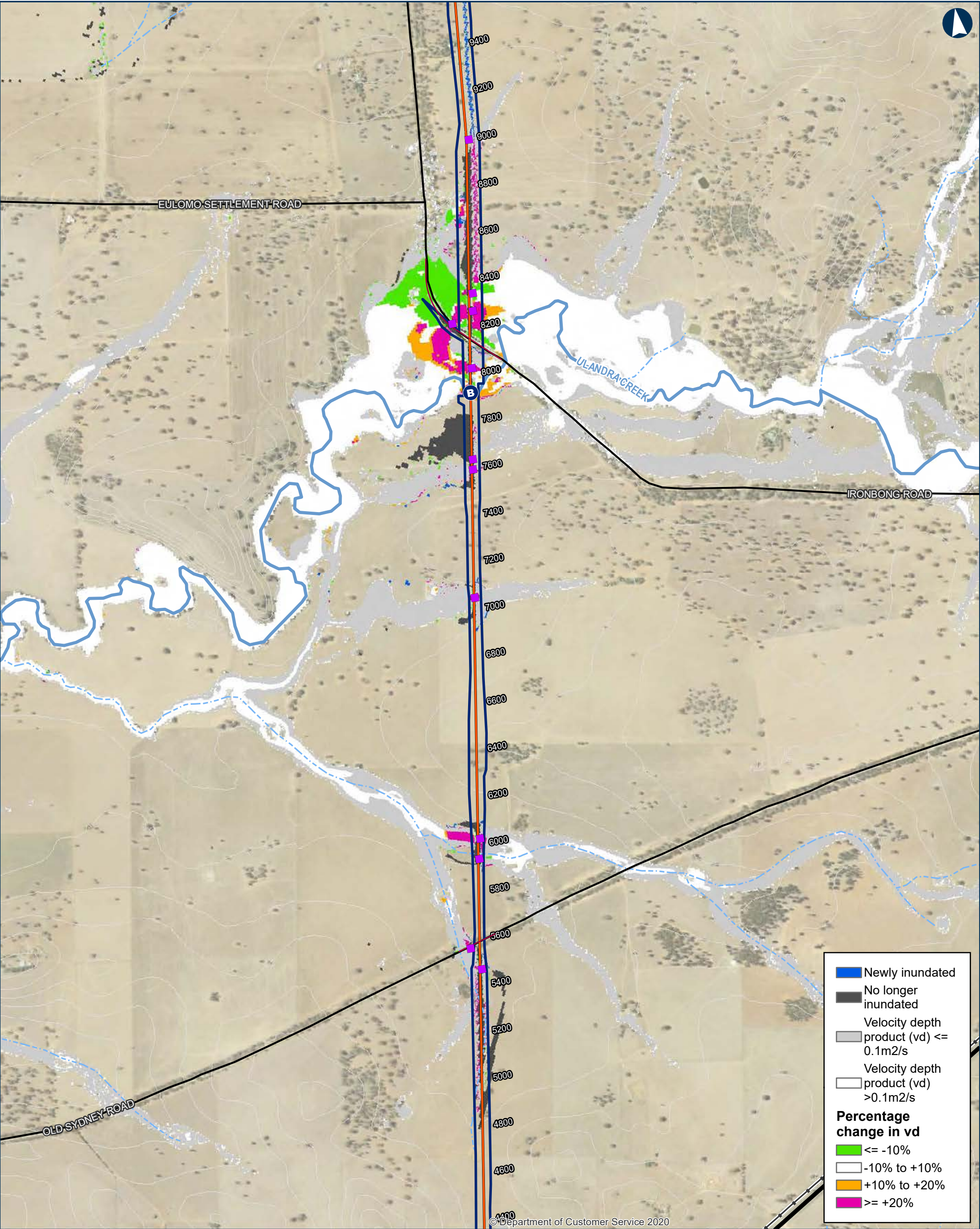
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- Culvert
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- Local road

- Sub-arterial road
- Arterial road



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ILLABO TO STOCKINBINGAL 2% AEP Change in Hazard

Map 2 of 9

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A3

Author: IRDJV

Scale: 1:15,000

Data Sources: IRDJV, ARTC, LPI

Permanent acquisition boundary

40950

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

B

Overbridge

B

Underbridge

Culvert

5m Contours

Existing rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

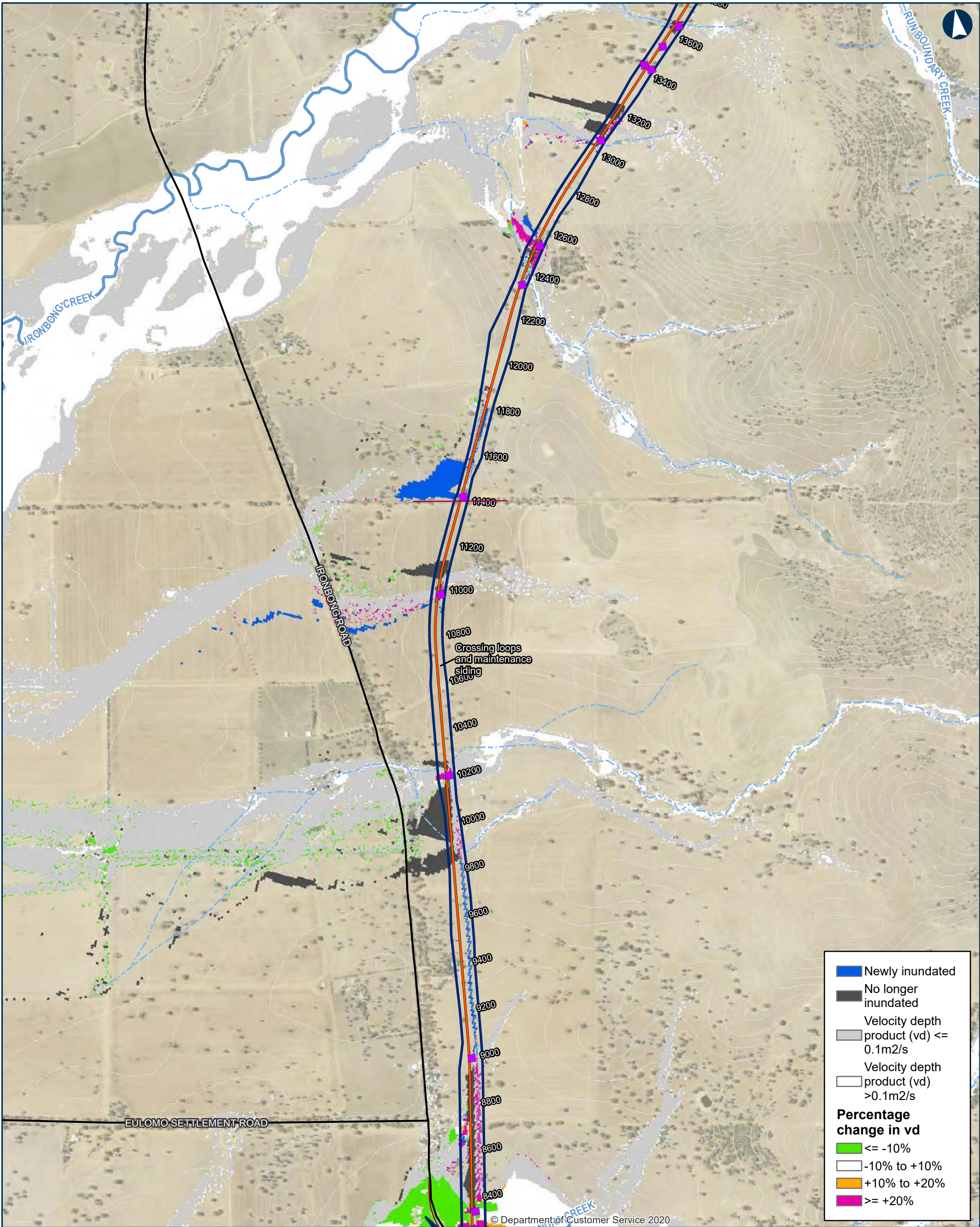
Sub-arterial road

Arterial road

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\\corp.pbwan.net\ANZ\Projects\IPS108286_Inland_Rail_Illab4_WIP\GIS\AWS\IPS108286_I2SITasks\220_0122_HYD_HydrologyReport\June2023\Documents\2AEP\220_0122_HYD_2AEPHazard_v5.mxd



ILLABO TO STOCKINBINGAL 2% AEP Change in Hazard

Map 3 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

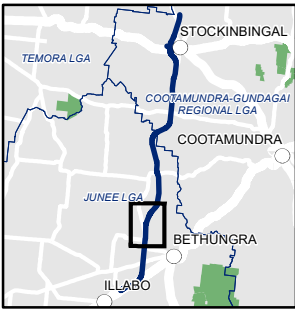
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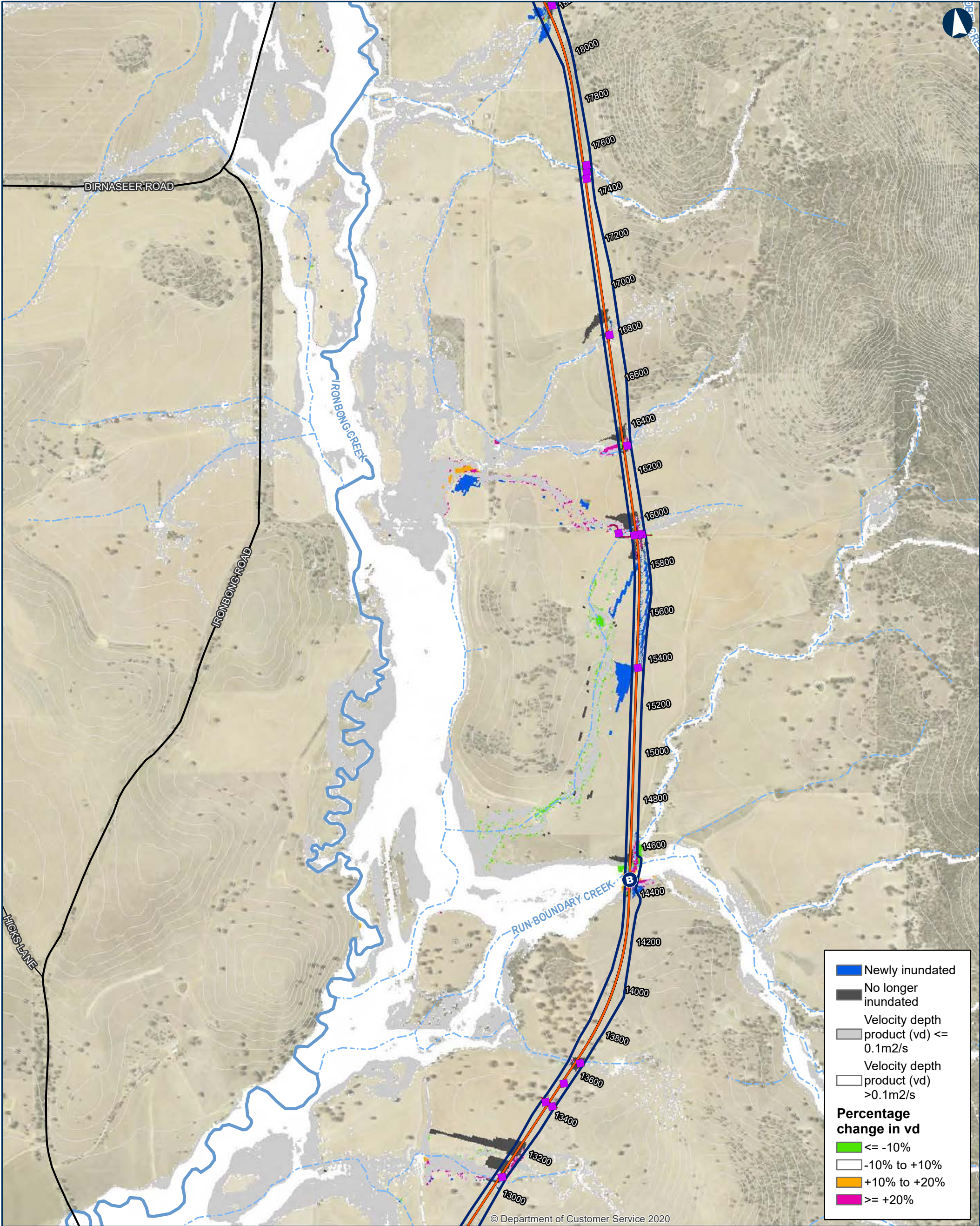
- Underbridge
- Culvert
- 5m Contours
- Existing rail
- Minor watercourse (Strahler SO 1-3)
- Major watercourse (Strahler SO 4-6)
- Local road

- Sub-arterial road
- Arterial road



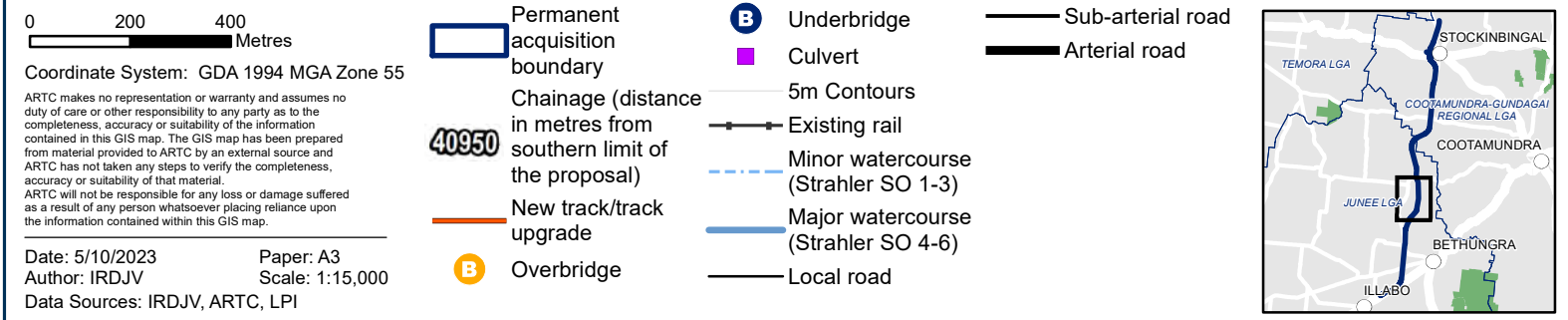
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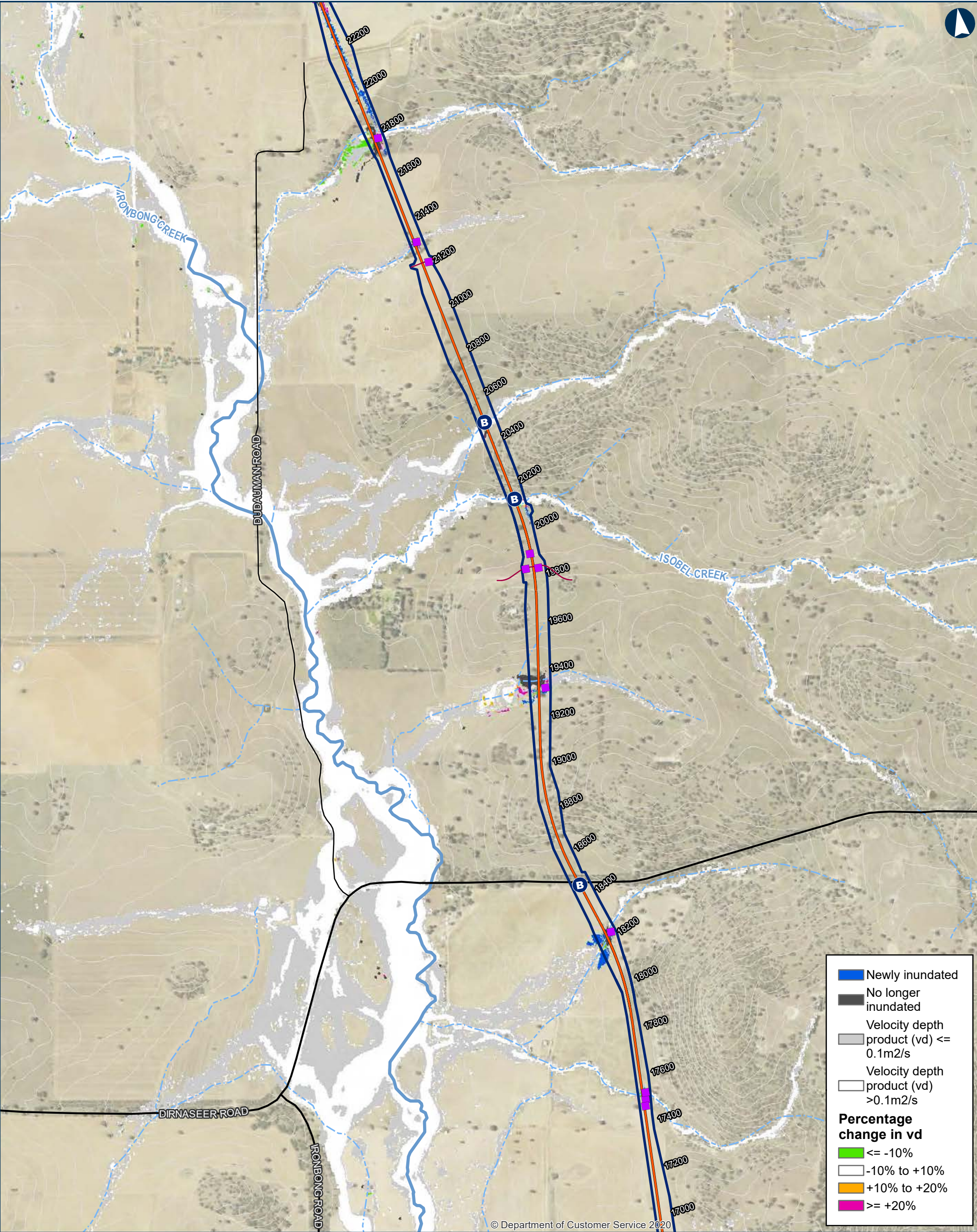
ILLABO TO STOCKINBINGAL 2% AEP Change in Hazard

Map 4 of 9



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ILLABO TO STOCKINBINGAL 2% AEP Change in Hazard

Map 5 of 9

0 200 400 Metres

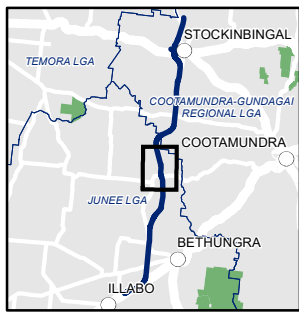
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- Overbridge

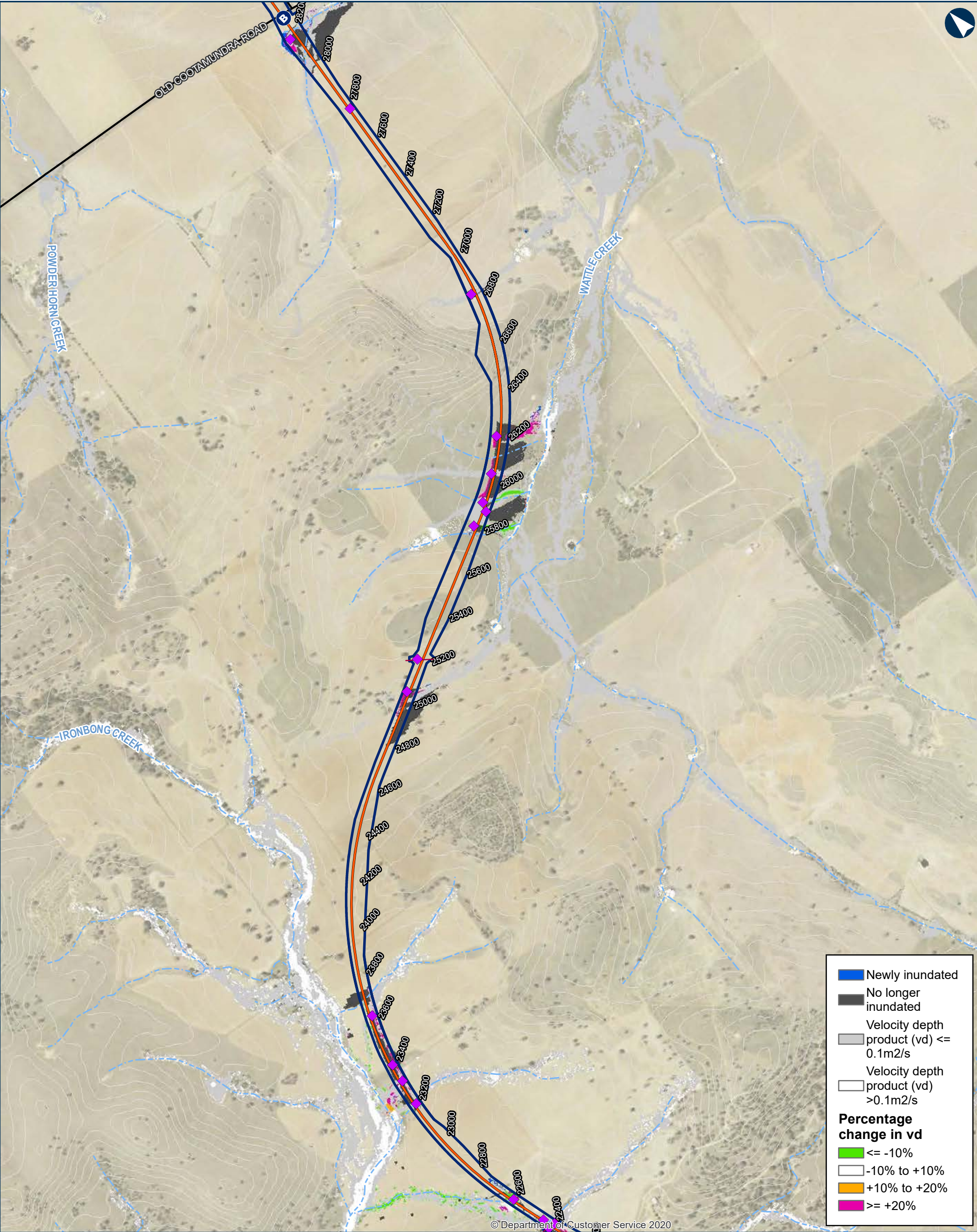
- Underbridge
- Culvert
- 5m Contours
- Existing rail
- Minor watercourse (Strahler SO 1-3)
- Major watercourse (Strahler SO 4-6)
- Local road

- Sub-arterial road
- Arterial road



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ILLABO TO STOCKINBINGAL 2% AEP Change in Hazard

Map 6 of 9

0 200 400 Metres

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Scale: 1:15,000

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

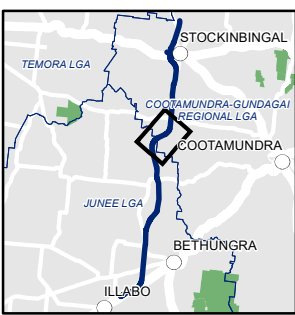
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

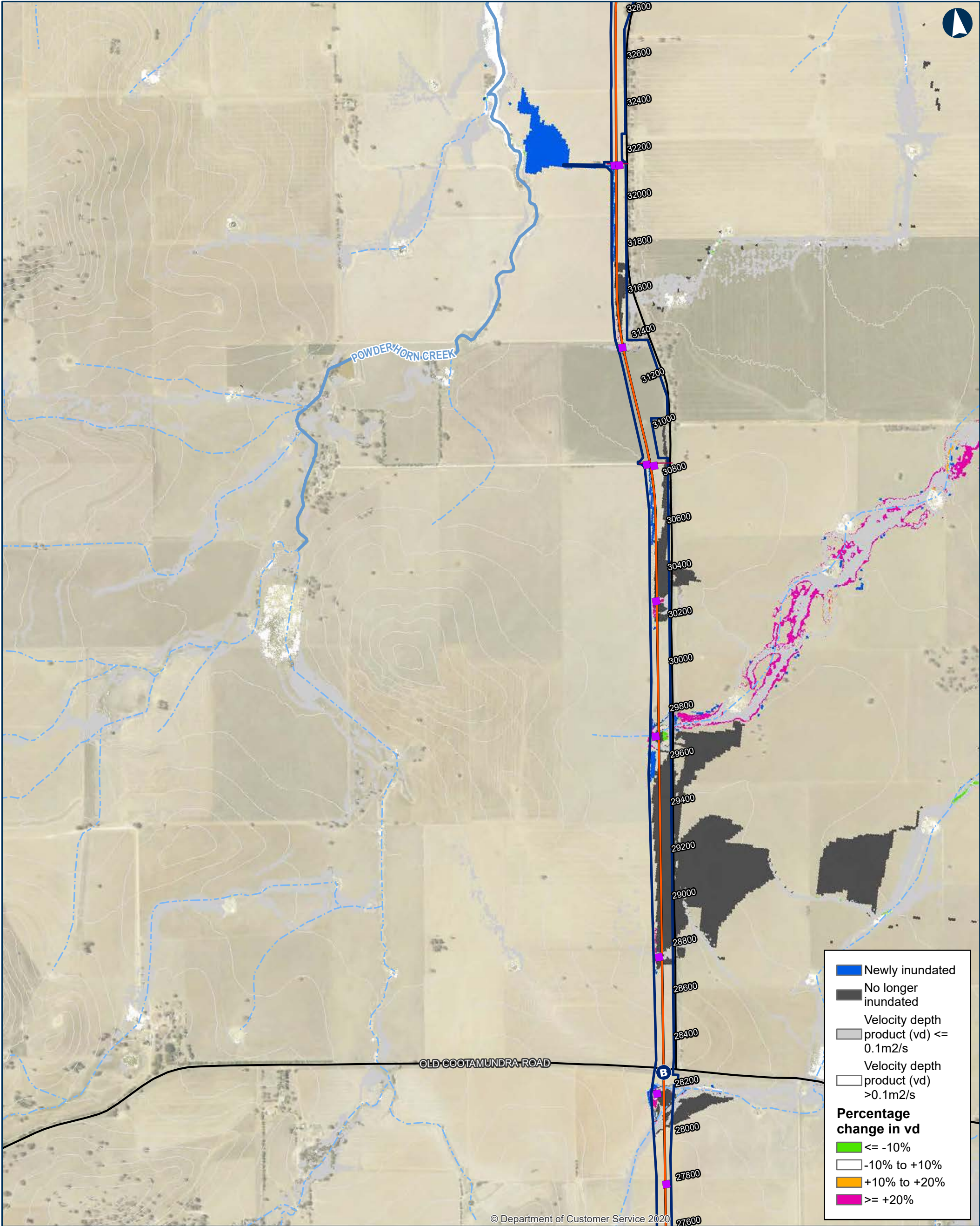
Sub-arterial road

Arterial road



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ILLABO TO STOCKINBINGAL 2% AEP Change in Hazard

Map 7 of 9

0 200 400 Metres

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Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

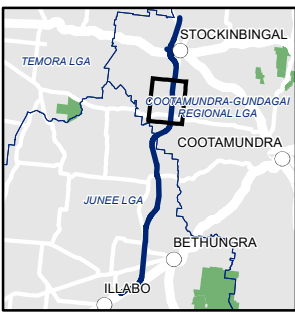
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

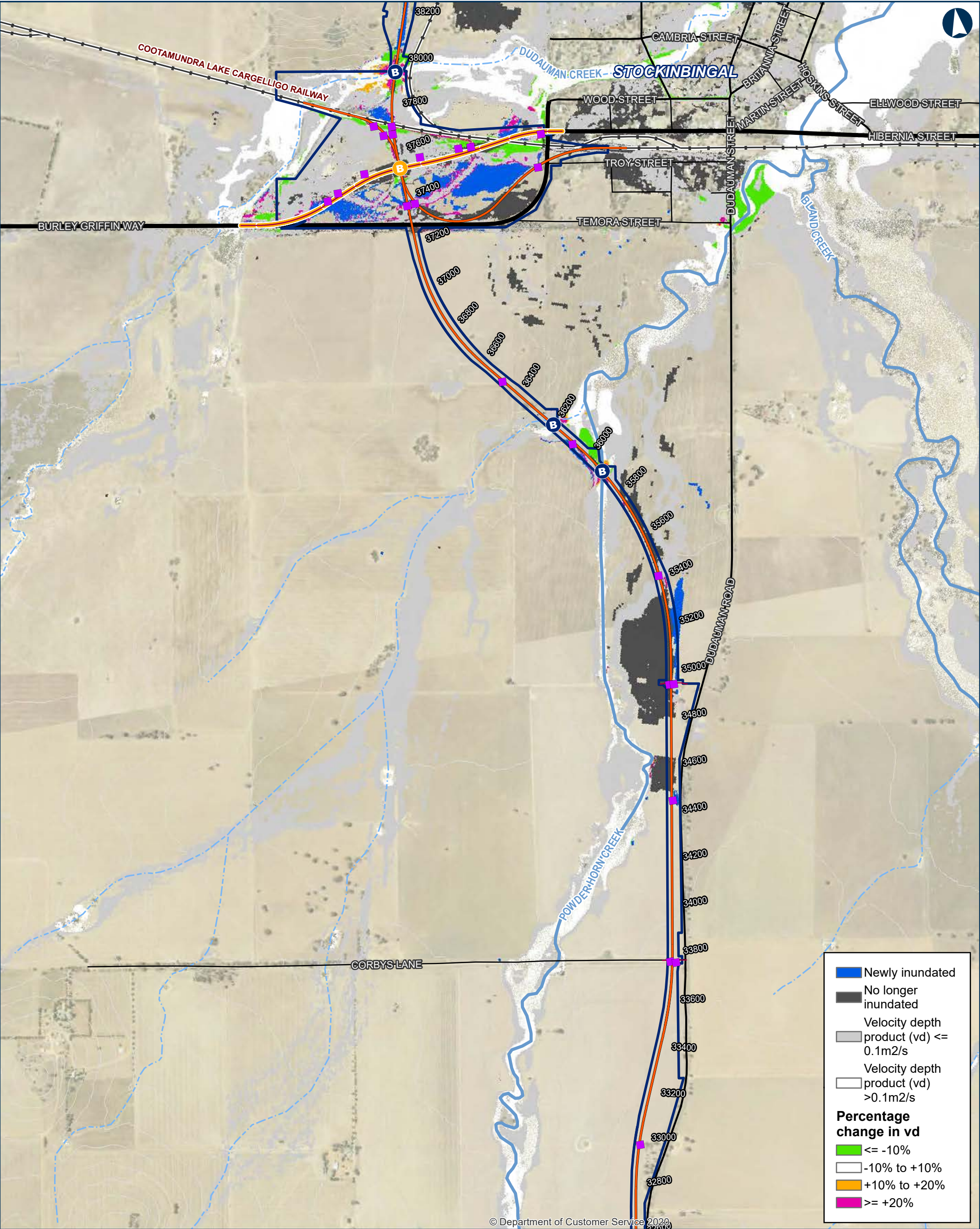
Sub-arterial road

Arterial road



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Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Burley Griffin Way realignment

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

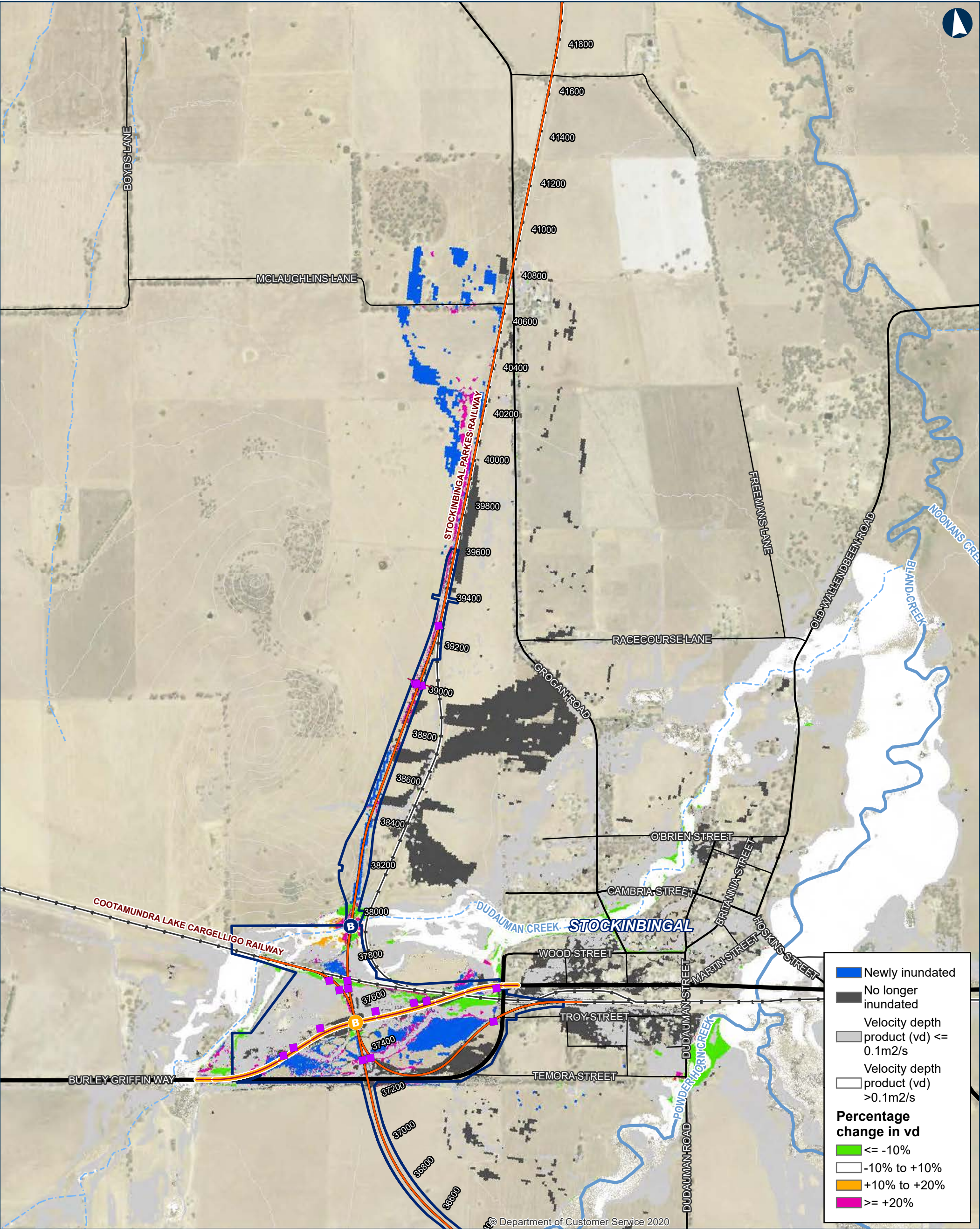
Local road

Sub-arterial road

Arterial road

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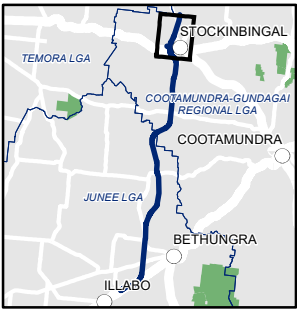
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Major watercourse (Strahler SO 4-6)

Local road

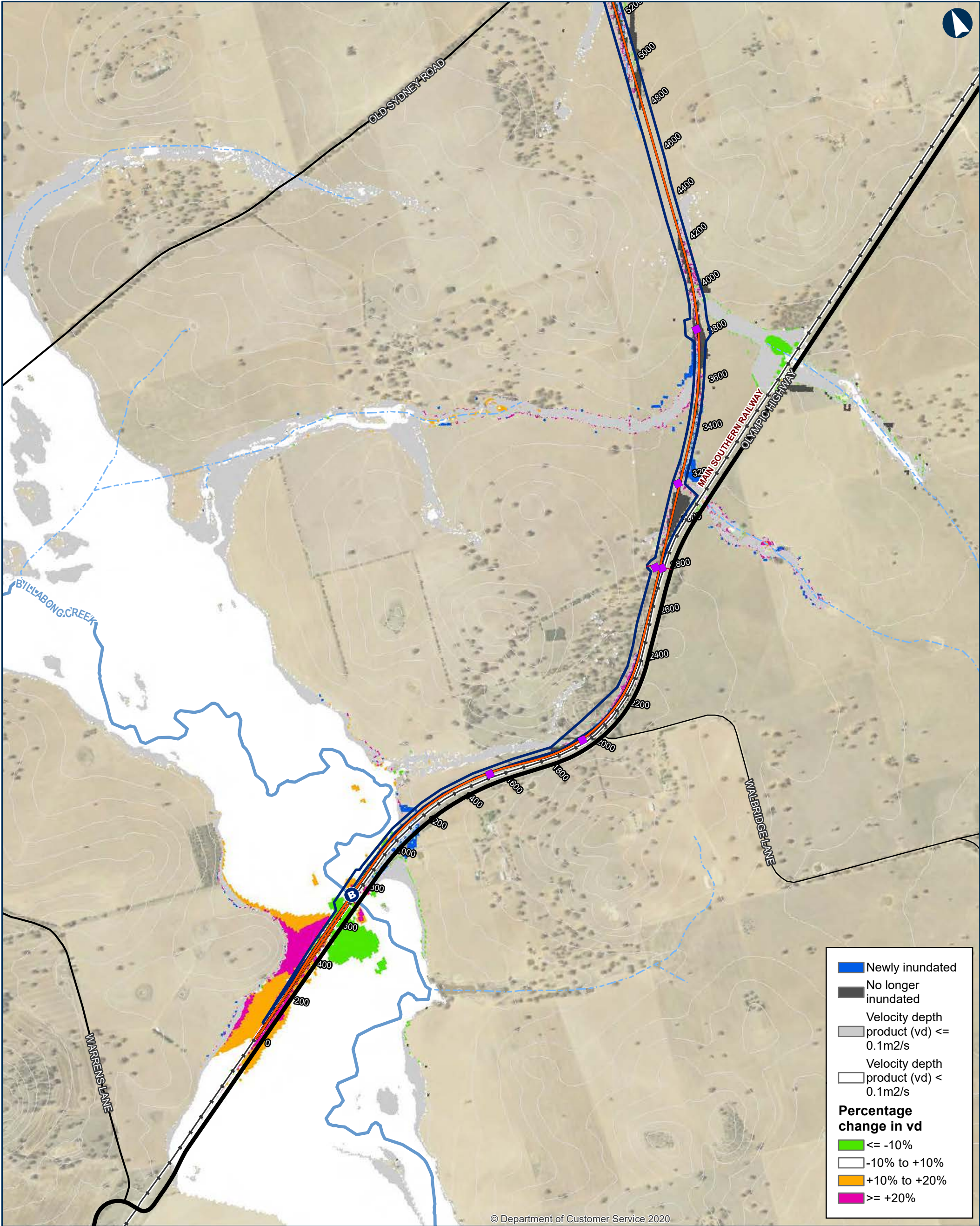
Sub-arterial road

Arterial road



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- Newly inundated
- No longer inundated
- Velocity depth product (vd) $\leq 0.1\text{m}^2/\text{s}$
- Velocity depth product (vd) $< 0.1\text{m}^2/\text{s}$
- Percentage change in vd**
- $\leq -10\%$
- -10% to $+10\%$
- $+10\%$ to $+20\%$
- $\geq +20\%$

ILLABO TO STOCKINBINGAL 1% AEP Change in Hazard

Map 1 of 9

0 200 400 Metres

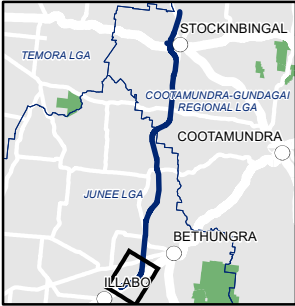
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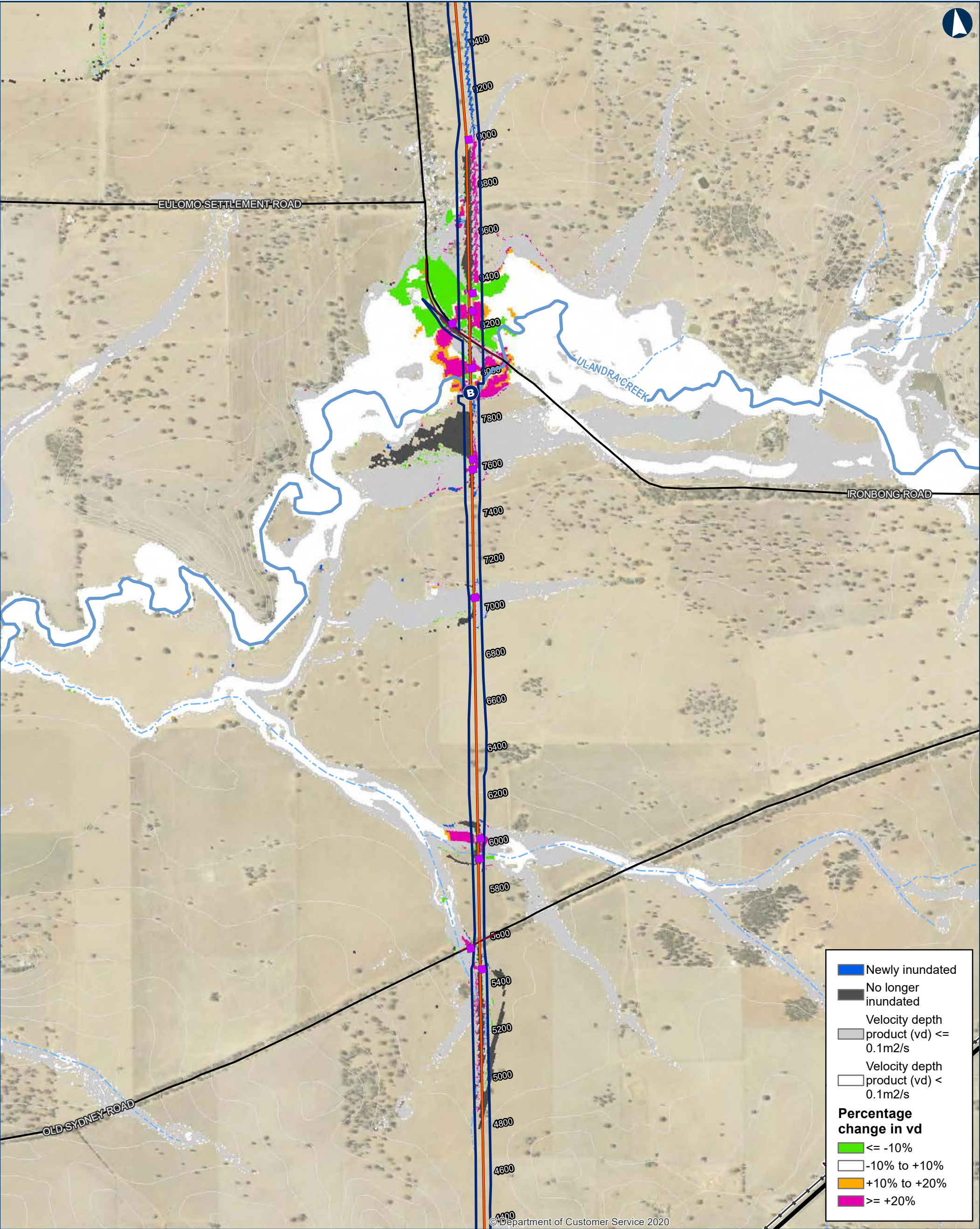
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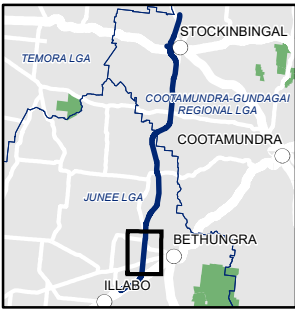
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- Permanent acquisition boundary
- 40950

Chainage (distance in metres from southern limit of the proposal)
- New track/track upgrade
- B

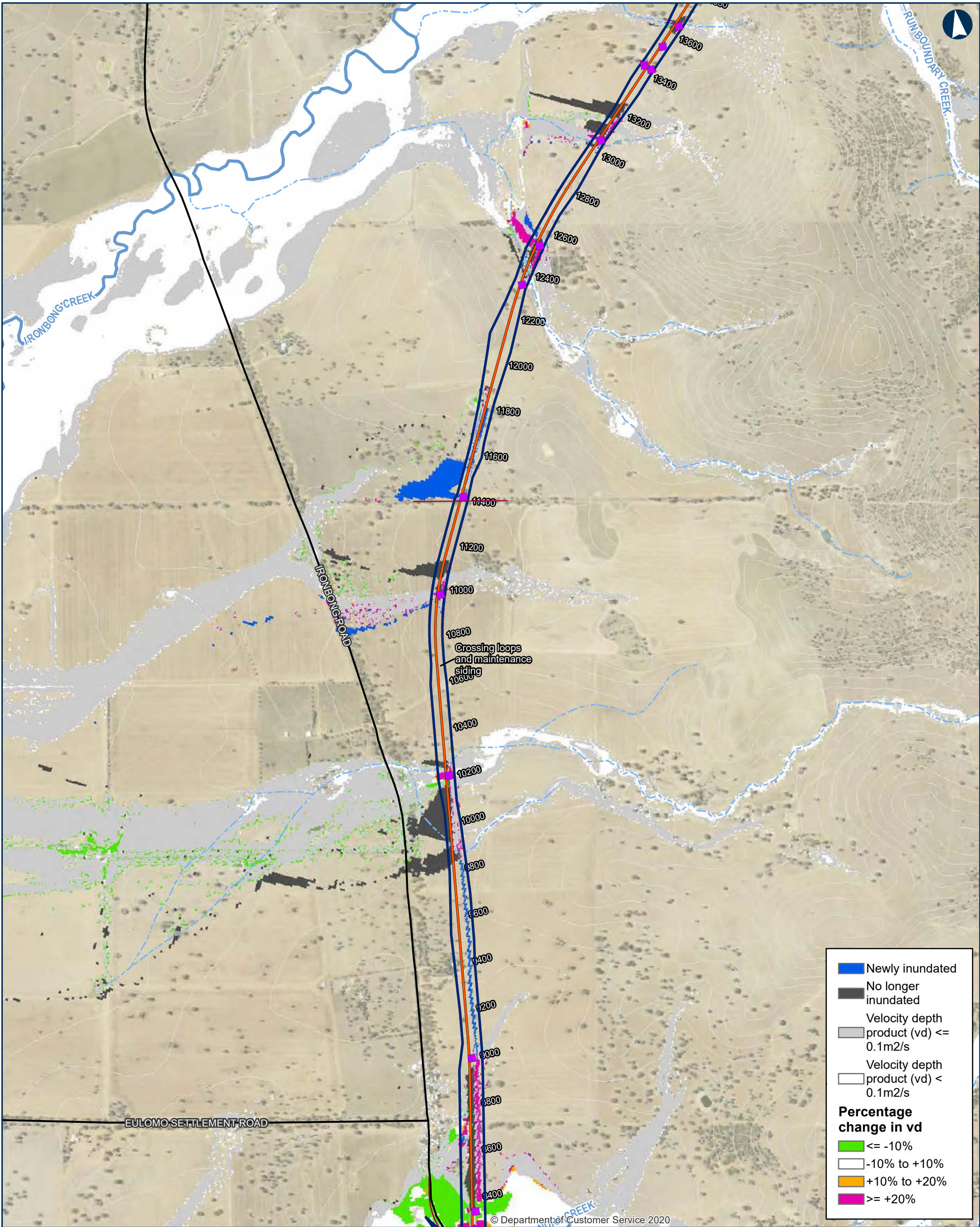
Overbridge
- B

Underbridge
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ILLABO TO STOCKINBINGAL 1% AEP Change in Hazard

Map 3 of 9

0 200 400 Metres

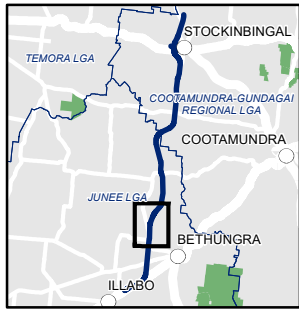
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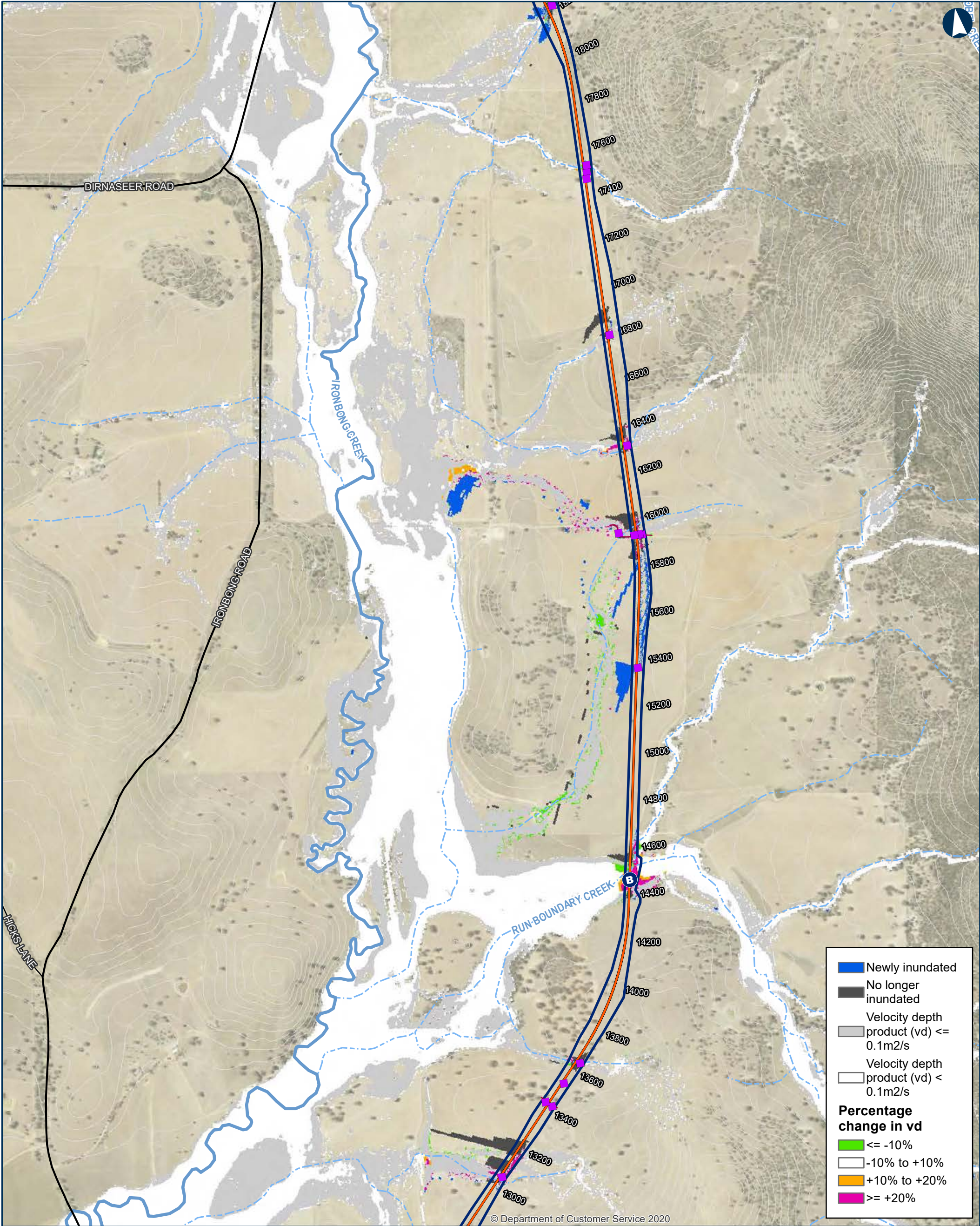
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- Arterial road



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ILLABO TO STOCKINBINGAL 1% AEP Change in Hazard

Map 4 of 9

0 200 400 Metres

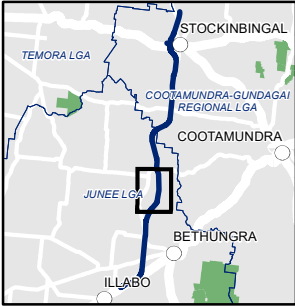
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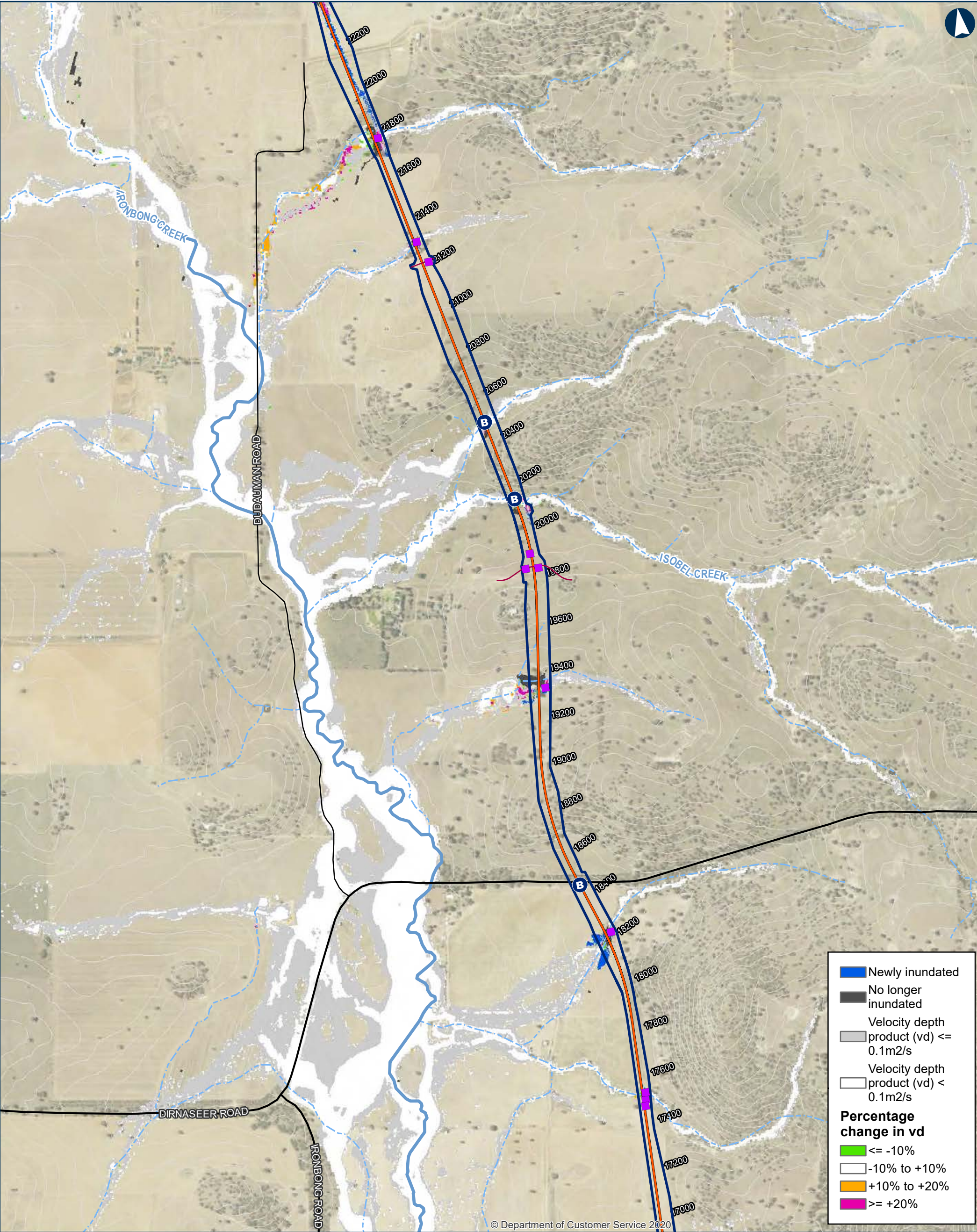
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- Arterial road



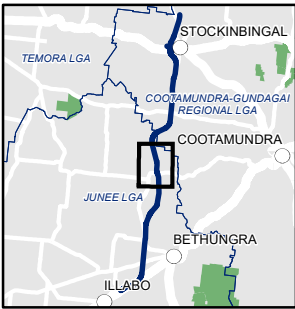
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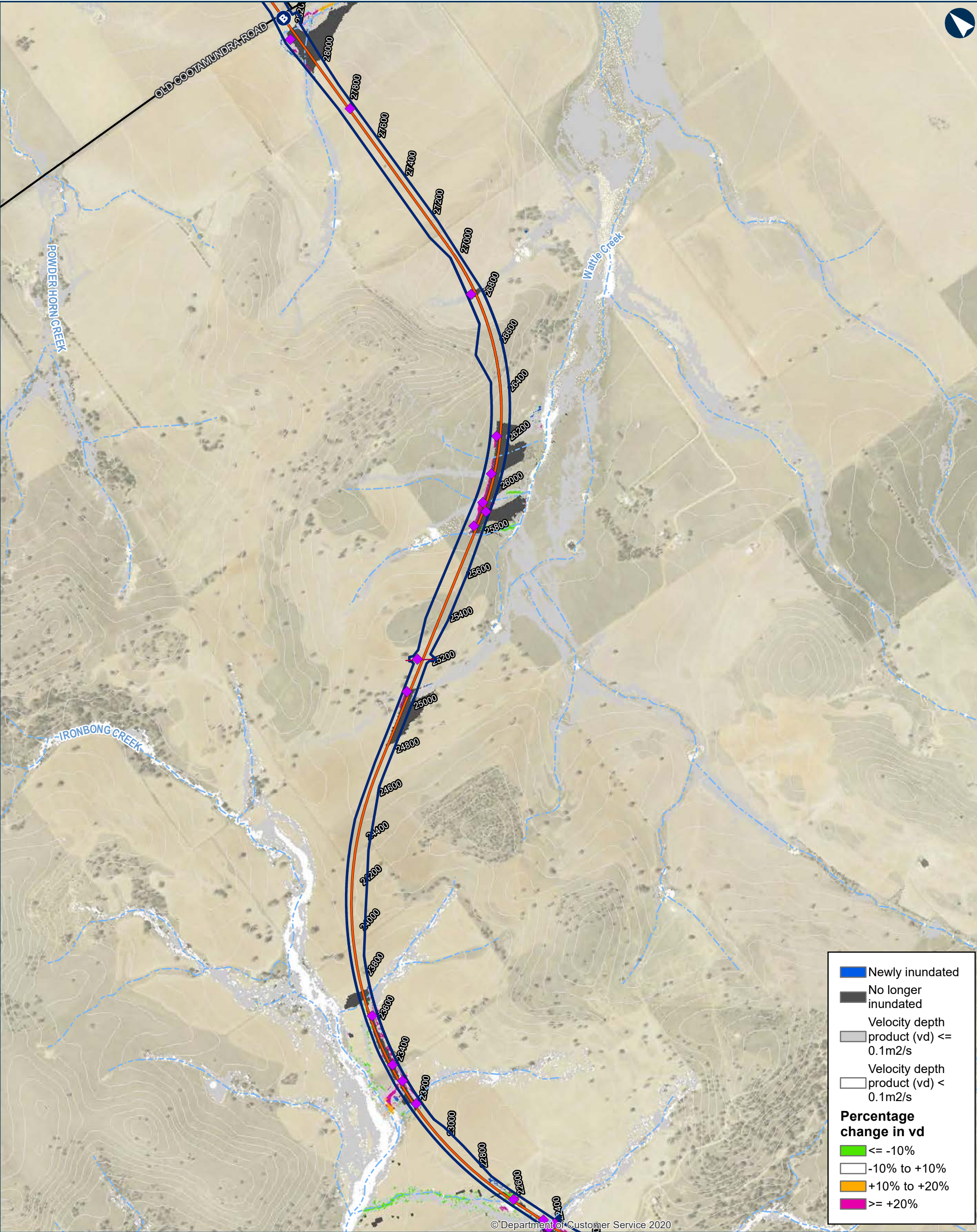
ILLABO TO STOCKINBINGAL 1% AEP Change in Hazard

Map 5 of 9



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ILLABO TO STOCKINBINGAL 1% AEP Change in Hazard

Map 6 of 9

0 200 400 Metres

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Data Sources: IRDJV, ARTC, LPI

40950

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Overbridge

B Underbridge

■ Culvert

5m Contours

Existing Rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

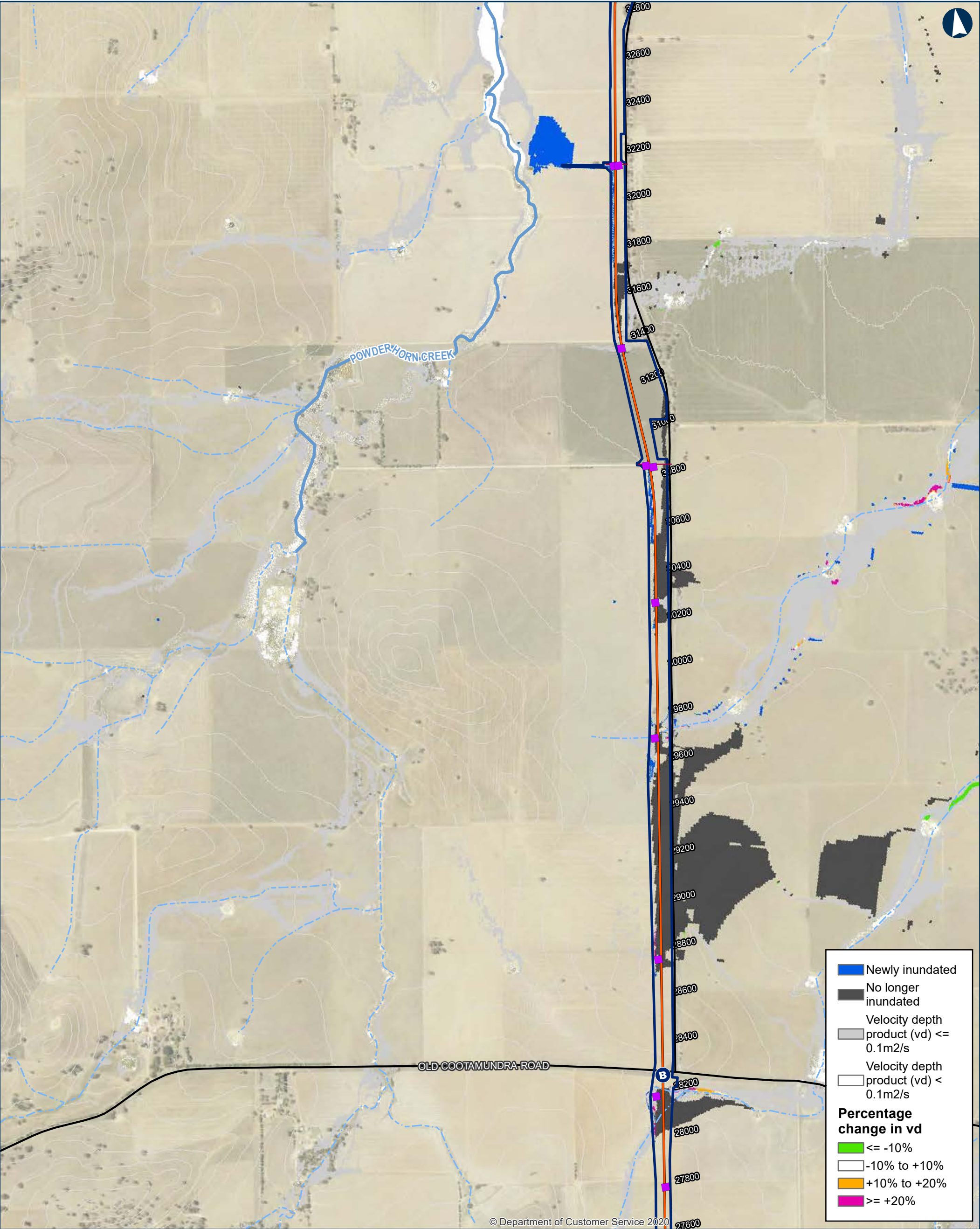
Local road

Sub-arterial road

Arterial road

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ILLABO TO STOCKINBINGAL 1% AEP Change in Hazard

Map 7 of 9

0 200 400 Metres

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Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Overbridge

Underbridge

Culvert

5m Contours

Existing Rail

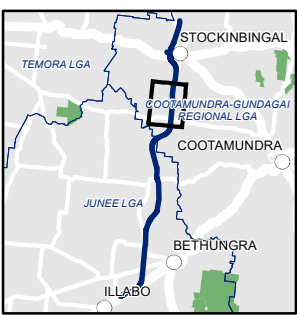
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

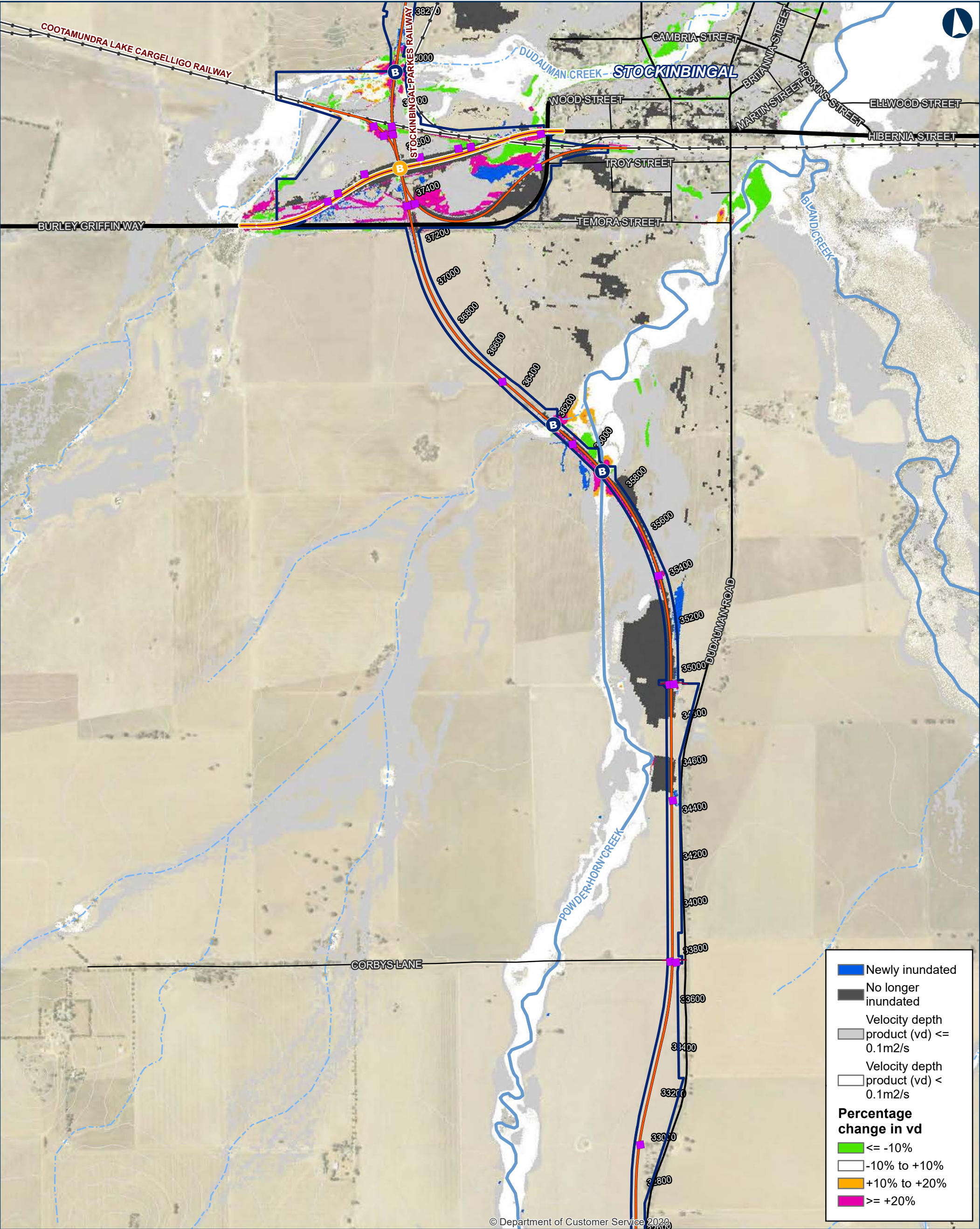
Sub-arterial road

Arterial road



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ILLABO TO STOCKINBINGAL 1% AEP Change in Hazard

Map 8 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55
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Date: 23/10/2023 Paper: A3
Author: IRDJV Scale: 1:15,000
Data Sources: IRDJV, ARTC, LPI

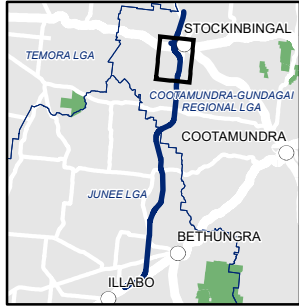
Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade
Burley Griffin Way Realignment

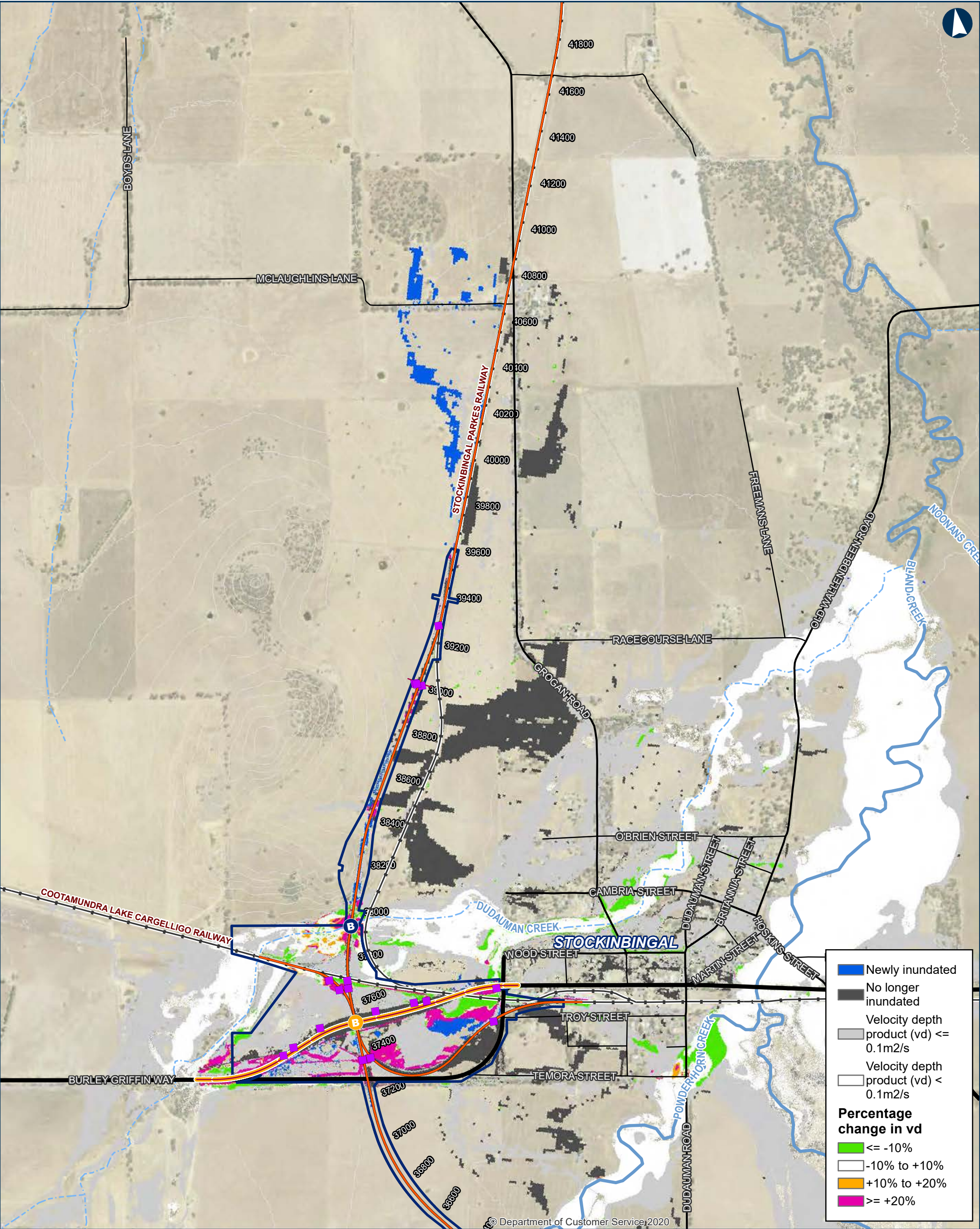
Overbridge
Underbridge
Culvert
5m Contours
Existing Rail
Minor watercourse (Strahler SO 1-3)
Major watercourse (Strahler SO 4-6)

Local road
Sub-arterial road
Arterial road



INLAND RAIL ARTC

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



0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Burley Griffin Way Realignment

Overbridge

Underbridge

Culvert

5m Contours

Existing Rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

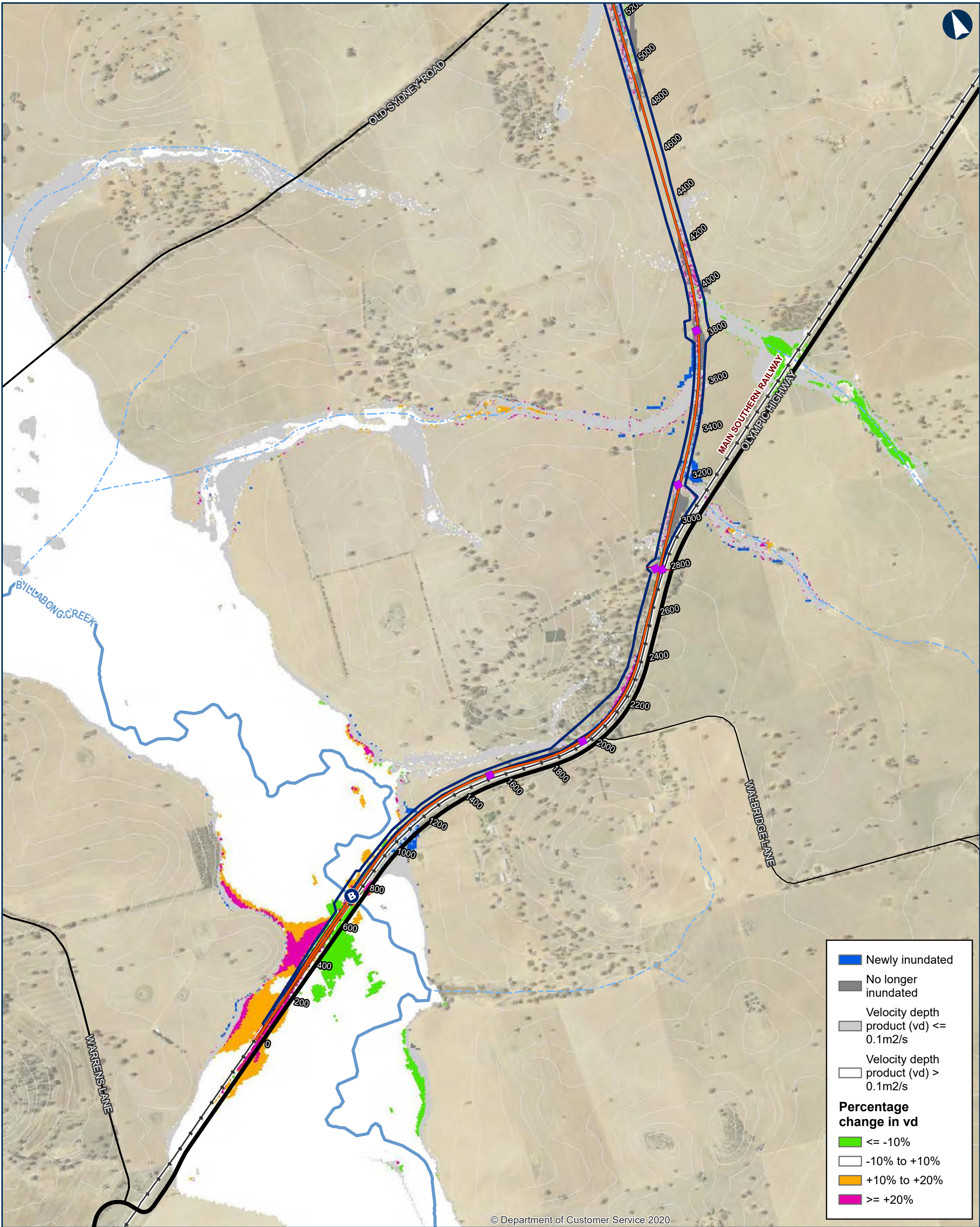
Local road

Sub-arterial road

Arterial road

INLAND RAIL **ARTC**

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Newly inundated

No longer inundated

Velocity depth product (vd) <= 0.1m2/s

Velocity depth product (vd) > 0.1m2/s

Percentage change in vd

<= -10%

-10% to +10%

+10% to +20%

>= +20%

ILLABO TO STOCKINBINGAL 1% AEP Climate Change: Change in Hazard

Map 1 of 9

0200400

Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 5/10/2023

Paper: A3

Author: IRDJV

Scale: 1:15,000

Data Sources: IRDJV, ARTC, LPI

Permanent acquisition boundary

40950

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

B

Overbridge

B

Underbridge

Culvert

5m Contours

Existing rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

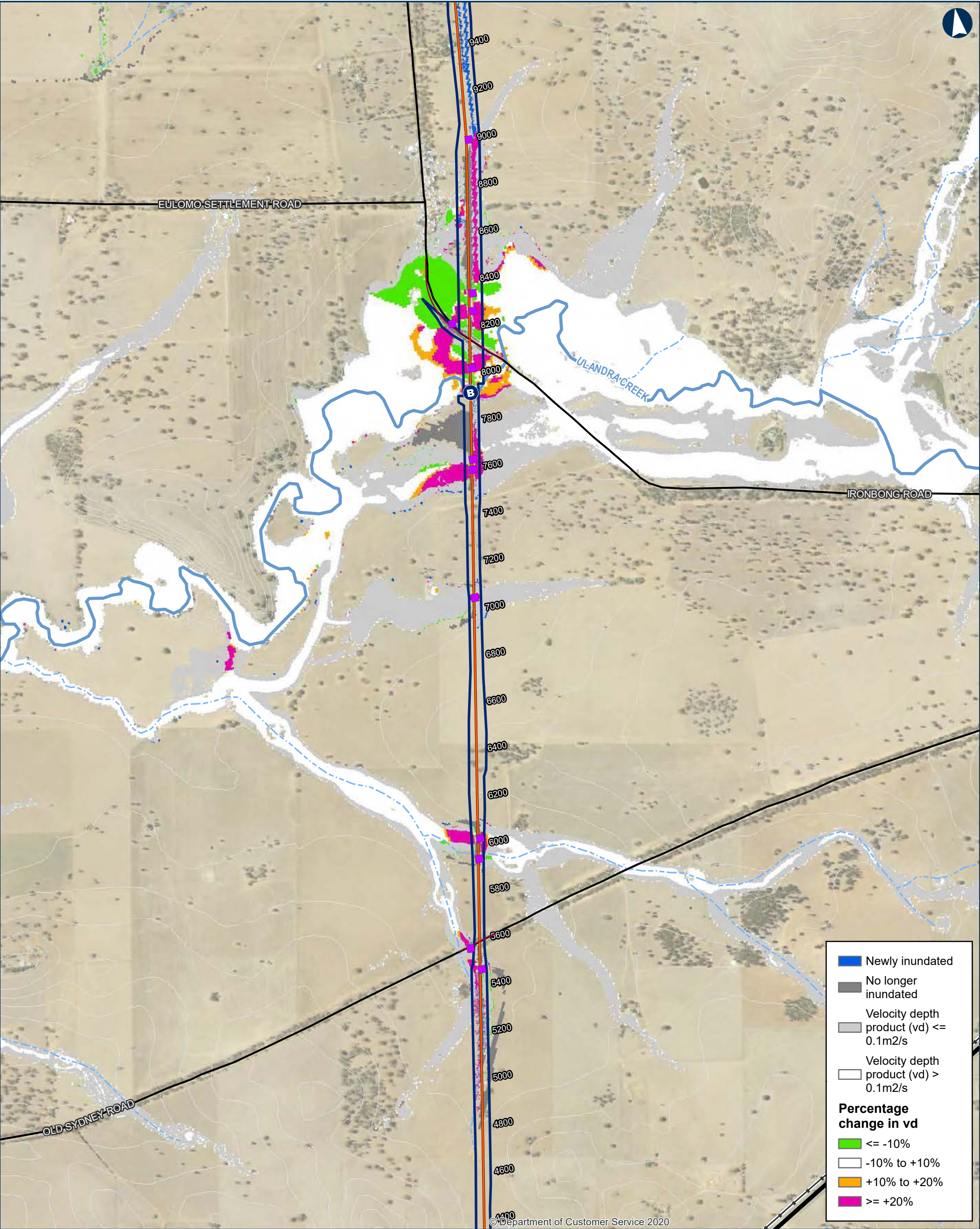
Local road

Sub-arterial road

Arterial road

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\\corp.pbwan.net\ANZ\Projects\IPS108286_Inland_Rail_Illab4_WIP\GIS\SAWS\IPS108286_I2SITasks\220_0122_HYD_HydrologyReport\June2023\Documents\1AEPCC\220_0122_HYD_1AEPCC\Hazard_v5.mxd



ILLABO TO STOCKINBINGAL 1% AEP Climate Change: Change in Hazard

Map 2 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

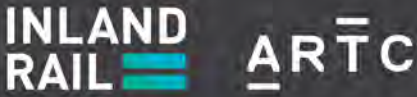
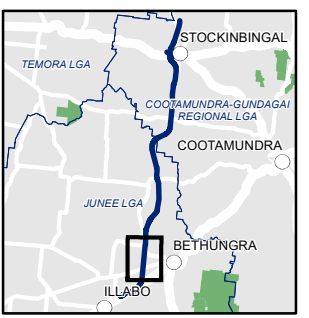
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

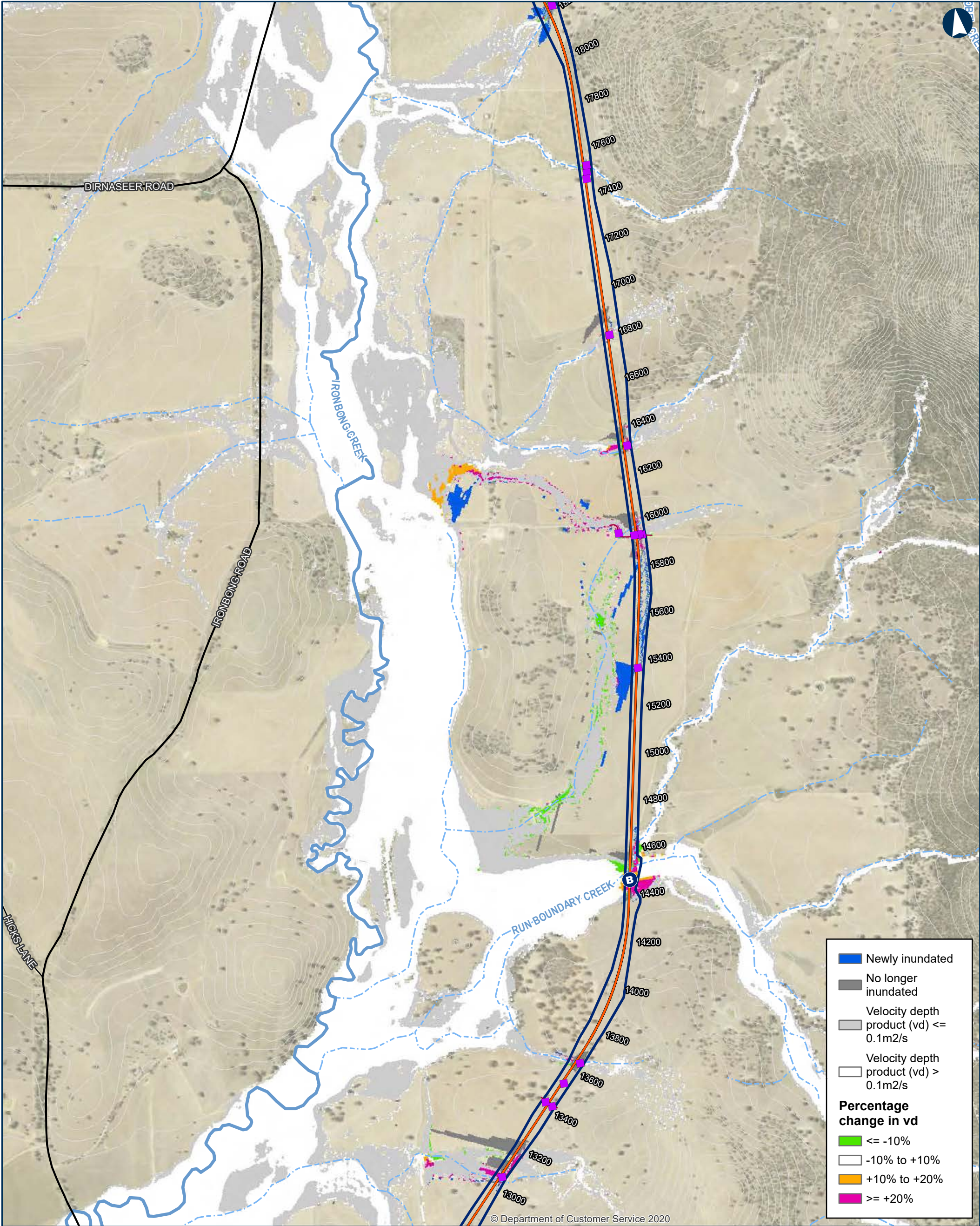
Local road

Sub-arterial road

Arterial road

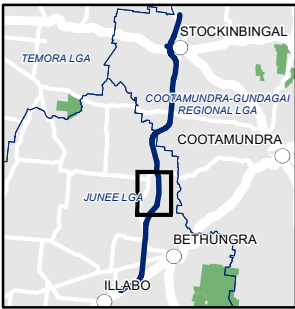


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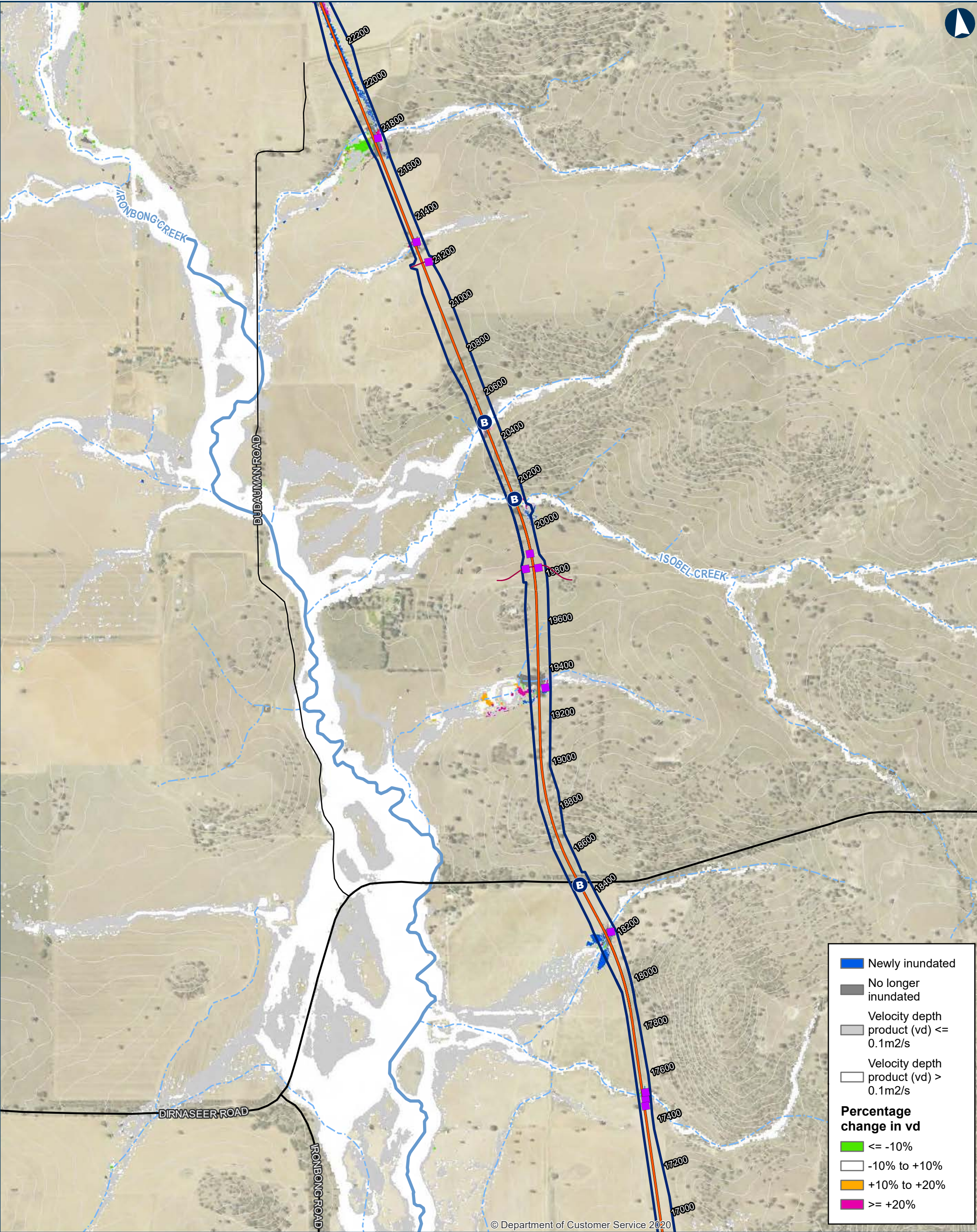
ILLABO TO STOCKINBINGAL 1% AEP Climate Change: Change in Hazard

Map 4 of 9



INLAND RAIL **ARTC**

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



ILLABO TO STOCKINBINGAL 1% AEP Climate Change: Change in Hazard

Map 5 of 9

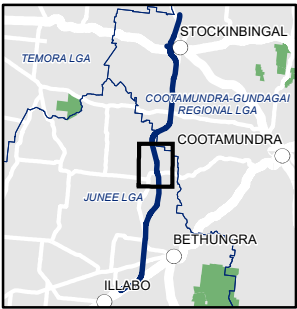
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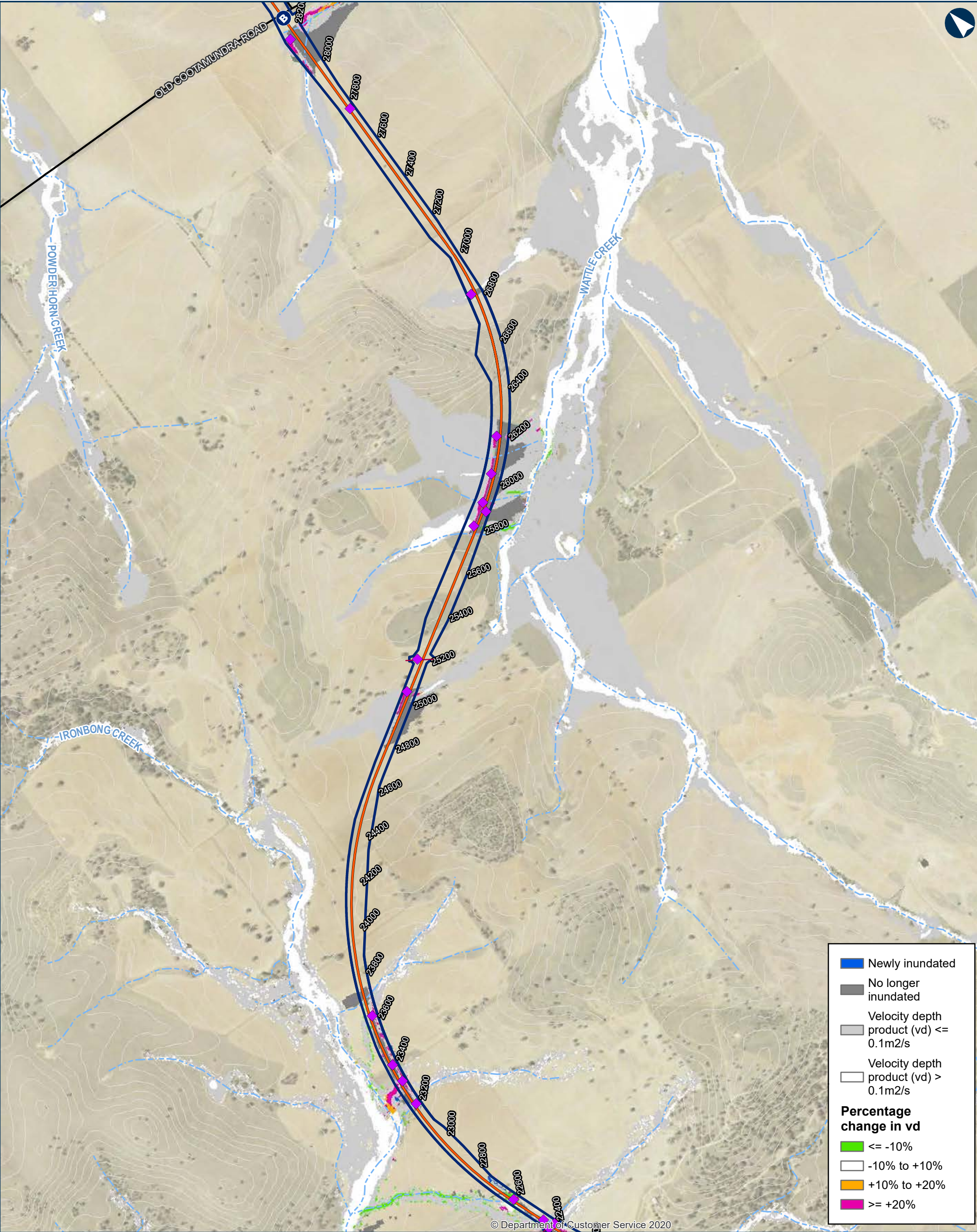
Date: 5/10/2023 Paper: A3
Author: IRDJV Scale: 1:15,000
Data Sources: IRDJV, ARTC, LPI

- Permanent acquisition boundary
- Chainage (distance in metres from southern limit of the proposal) 40950
- New track/track upgrade
- Overbridge
- Underbridge
- Culvert
- 5m Contours
- Existing rail
- Minor watercourse (Strahler SO 1-3)
- Major watercourse (Strahler SO 4-6)
- Local road
- Sub-arterial road
- Arterial road



INLAND RAIL ARTC

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



ILLABO TO STOCKINBINGAL 1% AEP Climate Change: Change in Hazard

Map 6 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A3
Scale: 1:15,000

40950

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

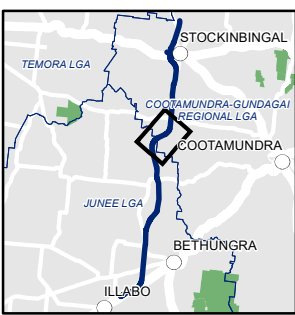
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

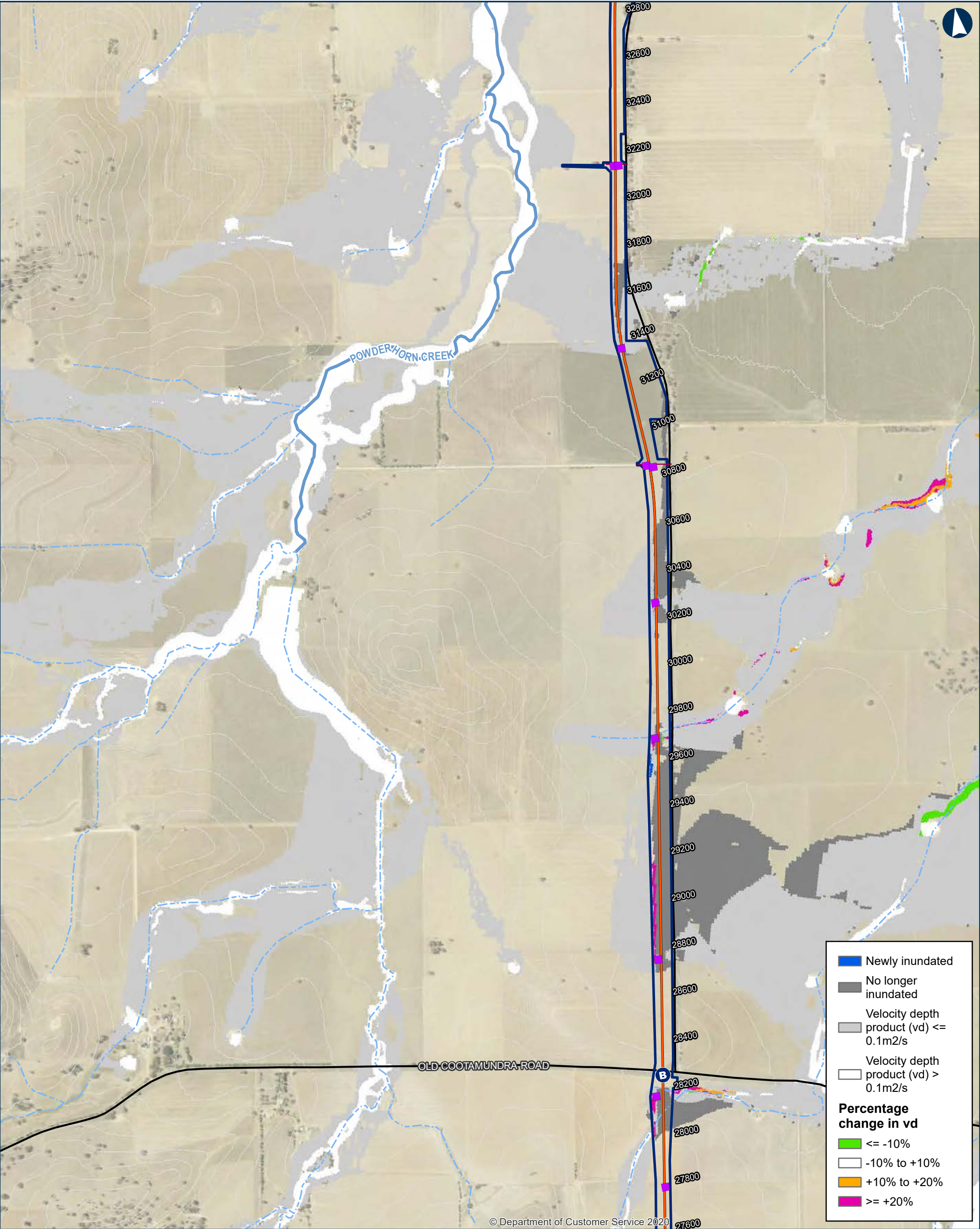
Sub-arterial road

Arterial road



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ILLABO TO STOCKINBINGAL 1% AEP Climate Change: Change in Hazard

Map 7 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

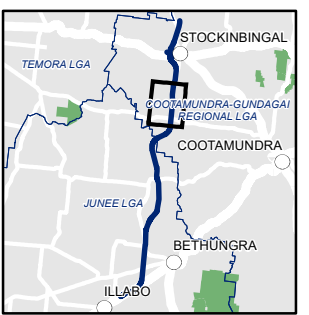
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

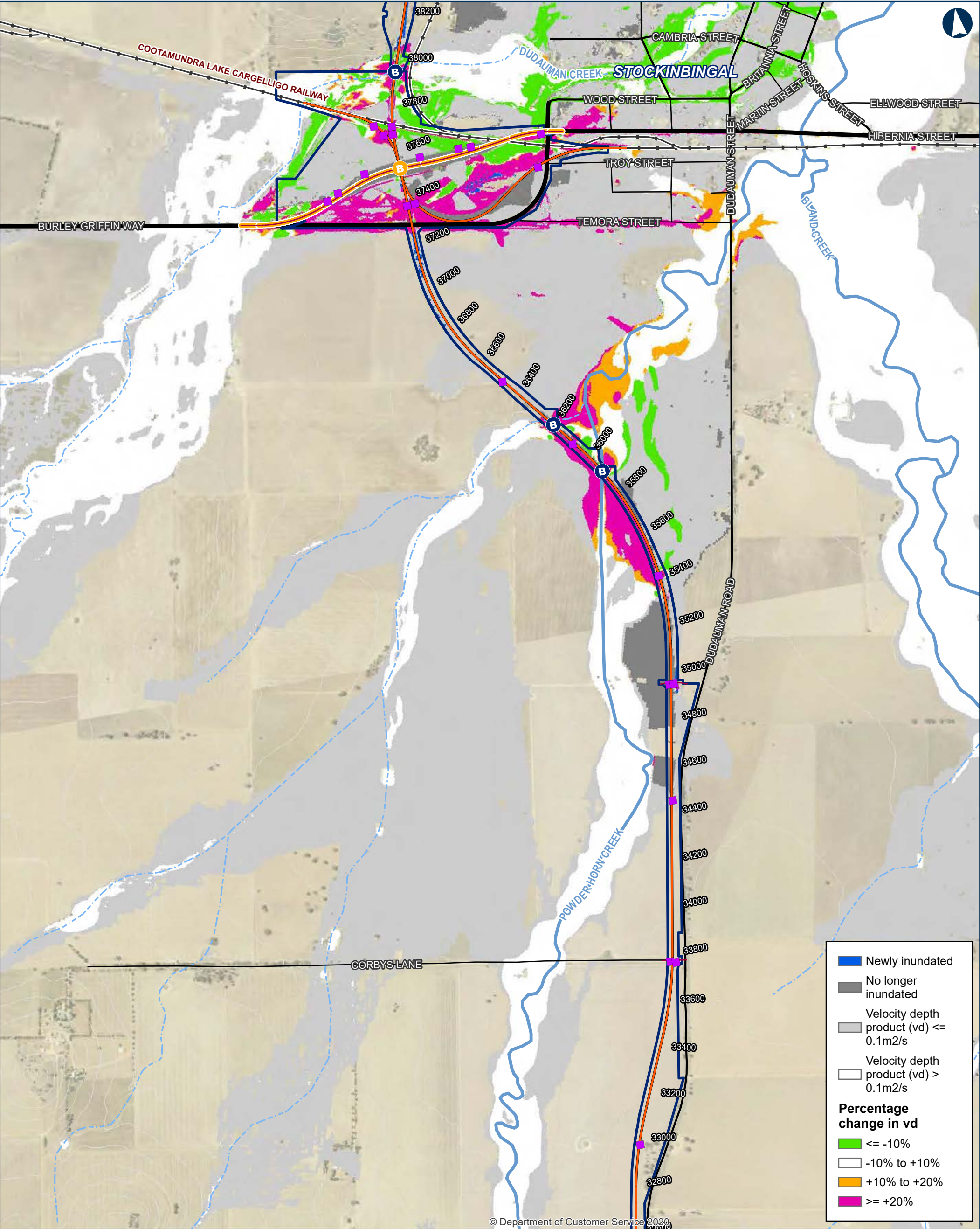
Sub-arterial road

Arterial road



INLAND RAIL **ARTC**

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ILLABO TO STOCKINBINGAL 1% AEP Climate Change: Change in Hazard

Map 8 of 9

0 200 400
Metres

Coordinate System: GDA 1994 MGA Zone 55

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Author: IRDJV

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Data Sources: IRDJV, ARTC, LPI

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Burley Griffin Way realignment

B

Overbridge

B

Underbridge

■

Culvert

5m Contours

Existing rail

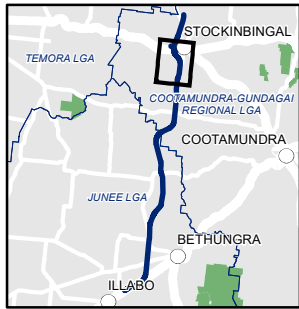
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

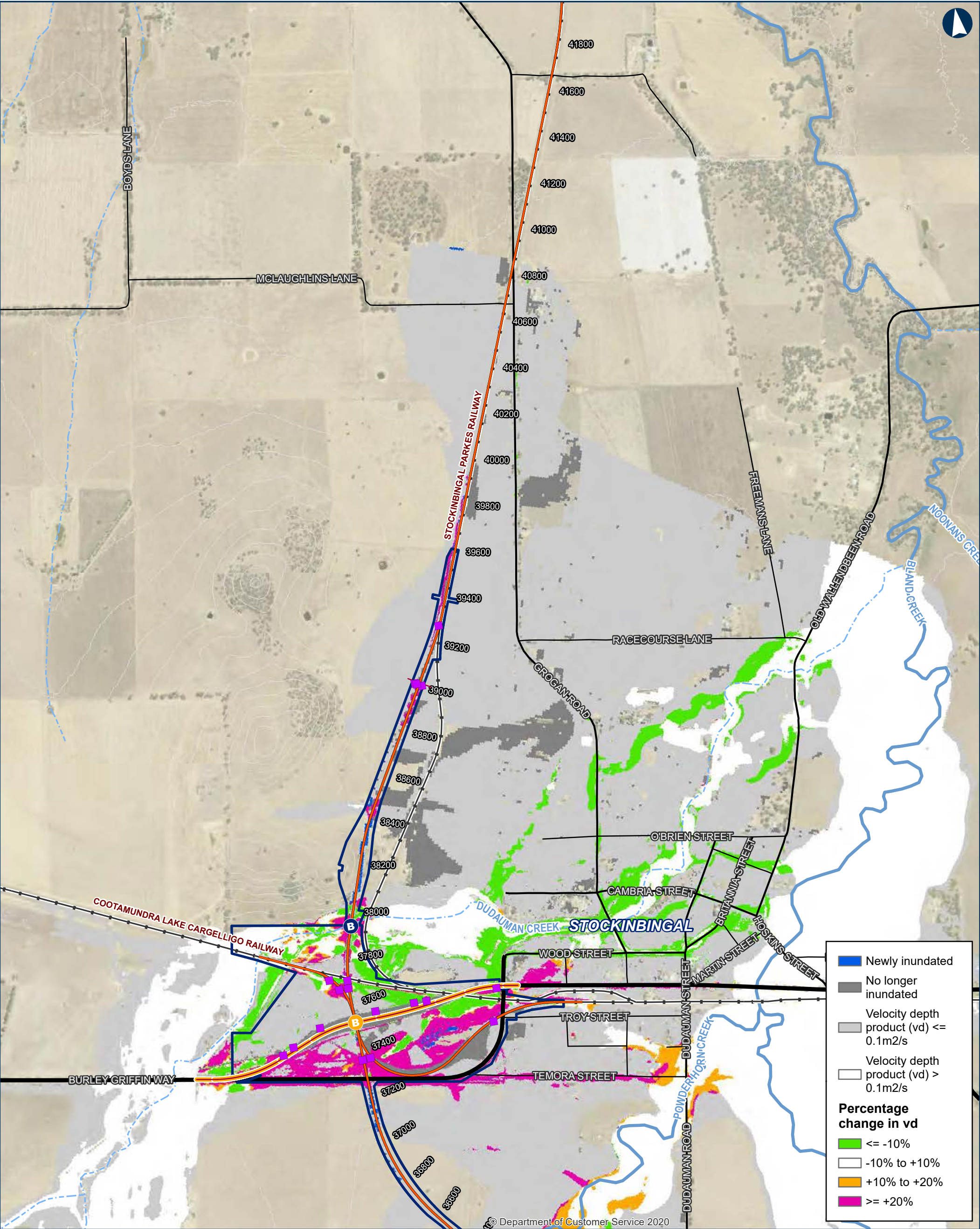
Sub-arterial road

Arterial road



INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL 1% AEP Climate Change: Change in Hazard

Map 9 of 9

0 200 400 Metres

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Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Burley Griffin Way realignment

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

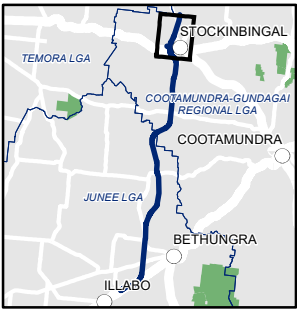
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

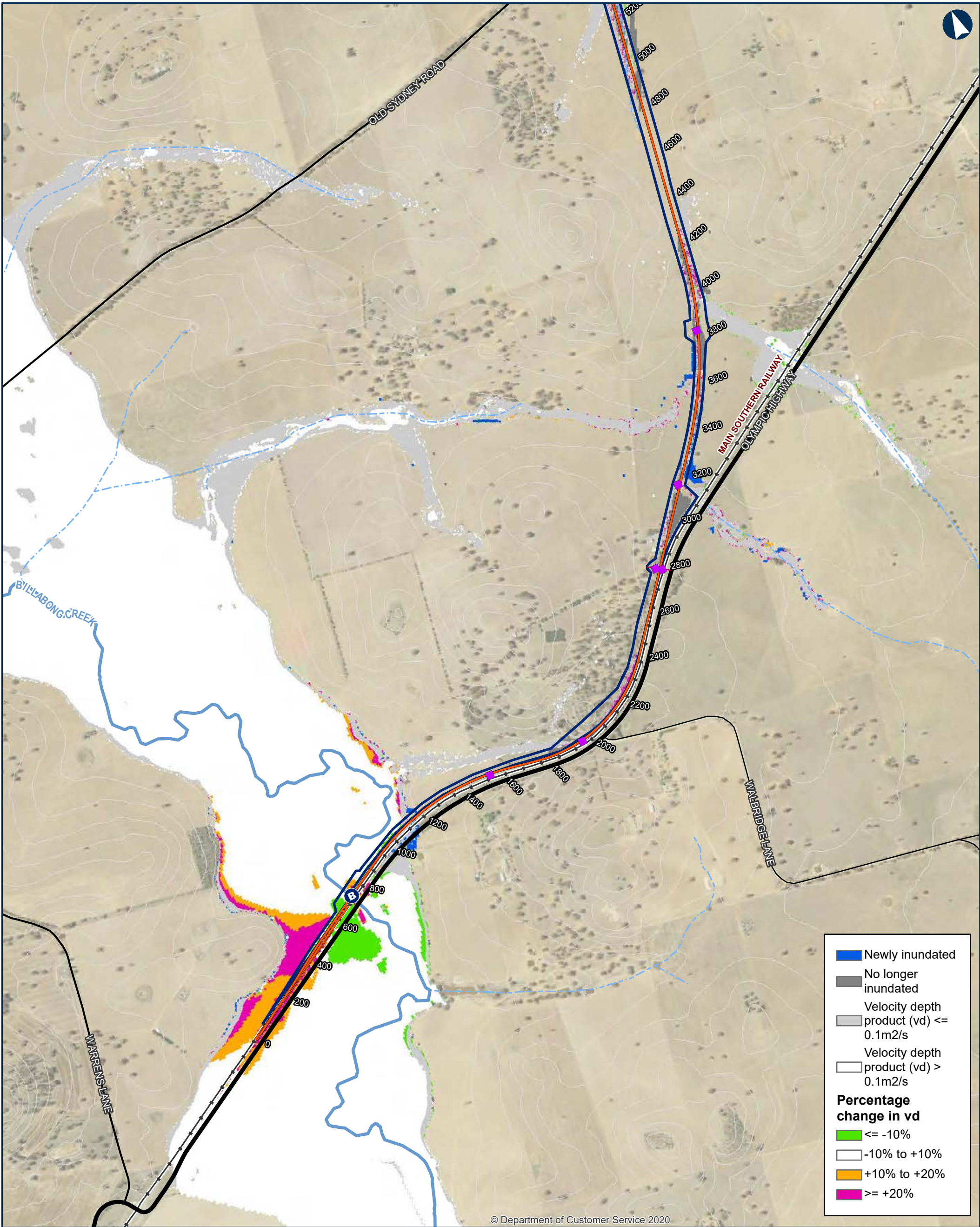
Sub-arterial road

Arterial road



INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL 0.05% AEP Change in Hazard

Map 1 of 9

0 200 400 Metres

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Date: 5/10/2023 Paper: A3
Author: IRDJV Scale: 1:15,000
Data Sources: IRDJV, ARTC, LPI

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

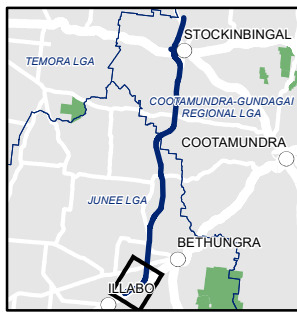
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

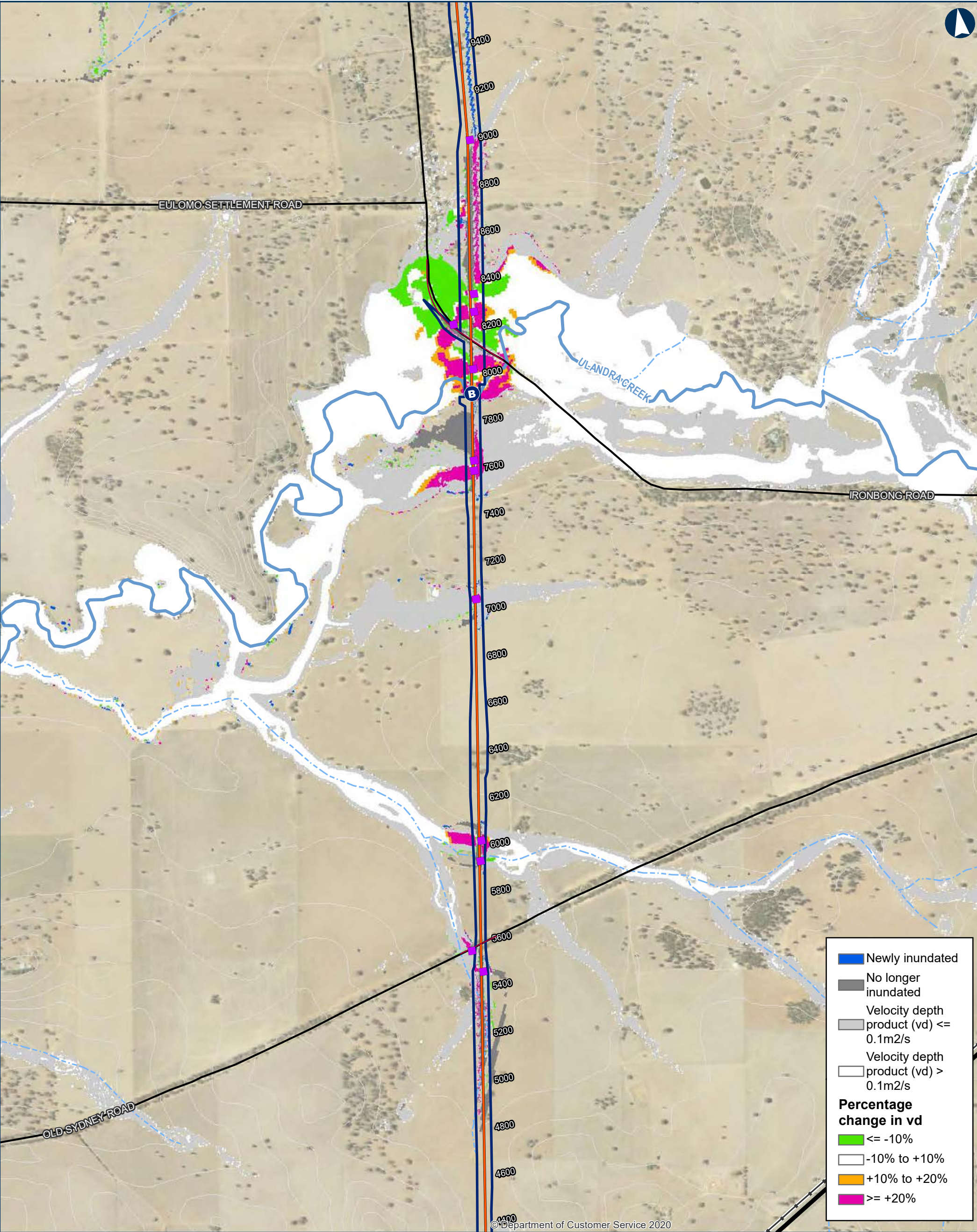
Sub-arterial road

Arterial road



INLAND RAIL **ARTC**

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ILLABO TO STOCKINBINGAL 0.05% AEP Change in Hazard

Map 2 of 9

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 5/10/2023

Paper: A3

Author: IRDJV

Scale: 1:15,000

Data Sources: IRDJV, ARTC, LPI

Permanent acquisition boundary

40950

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

B

Overbridge

B

Underbridge

Culvert

5m Contours

Existing rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

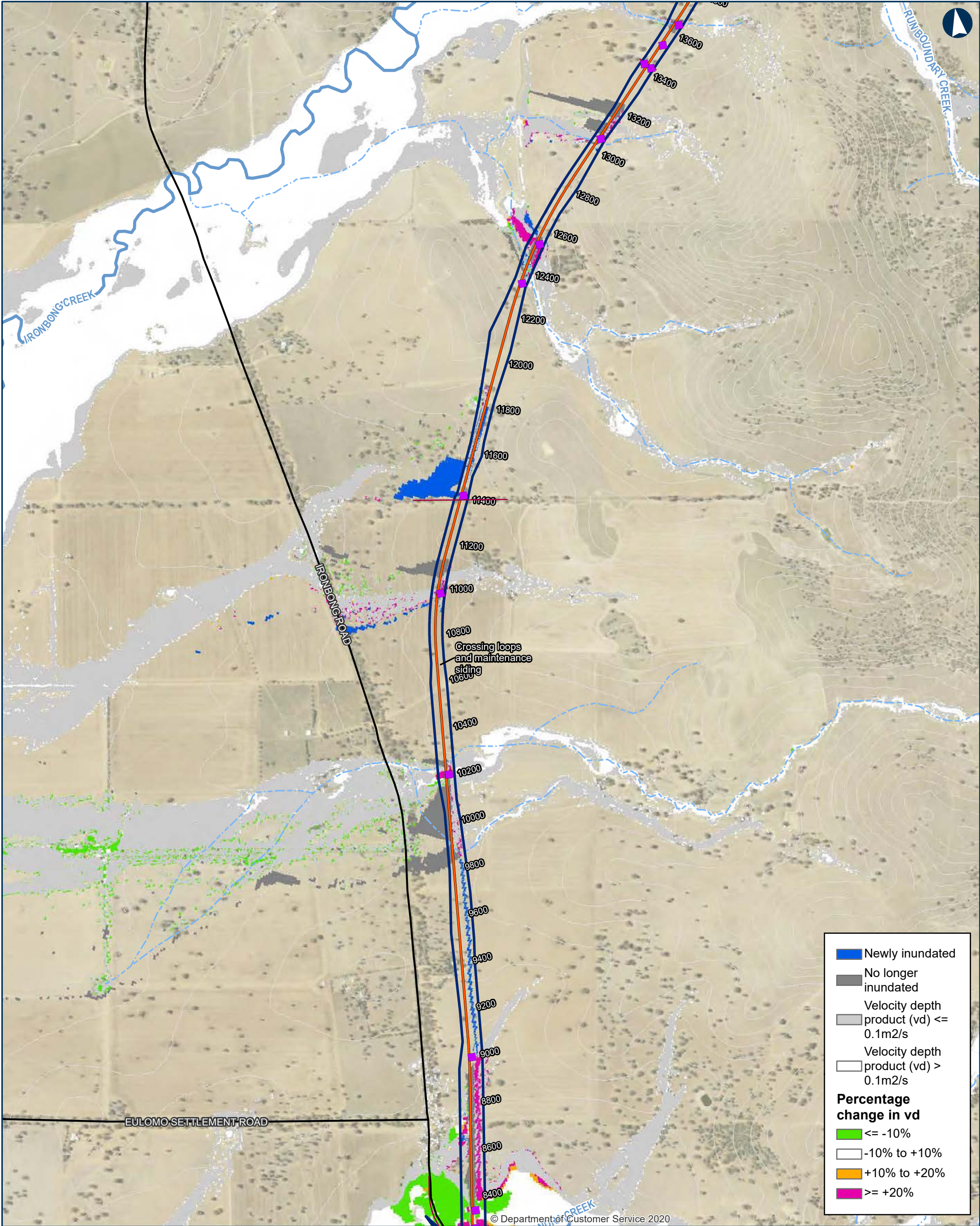
Sub-arterial road

Arterial road

INLAND RAIL ARTC

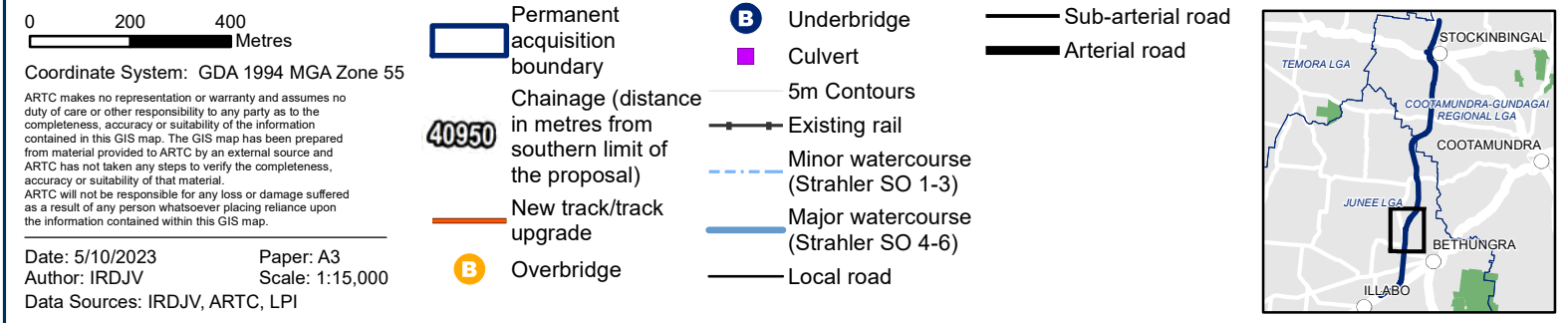
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC), in partnership with the private sector.

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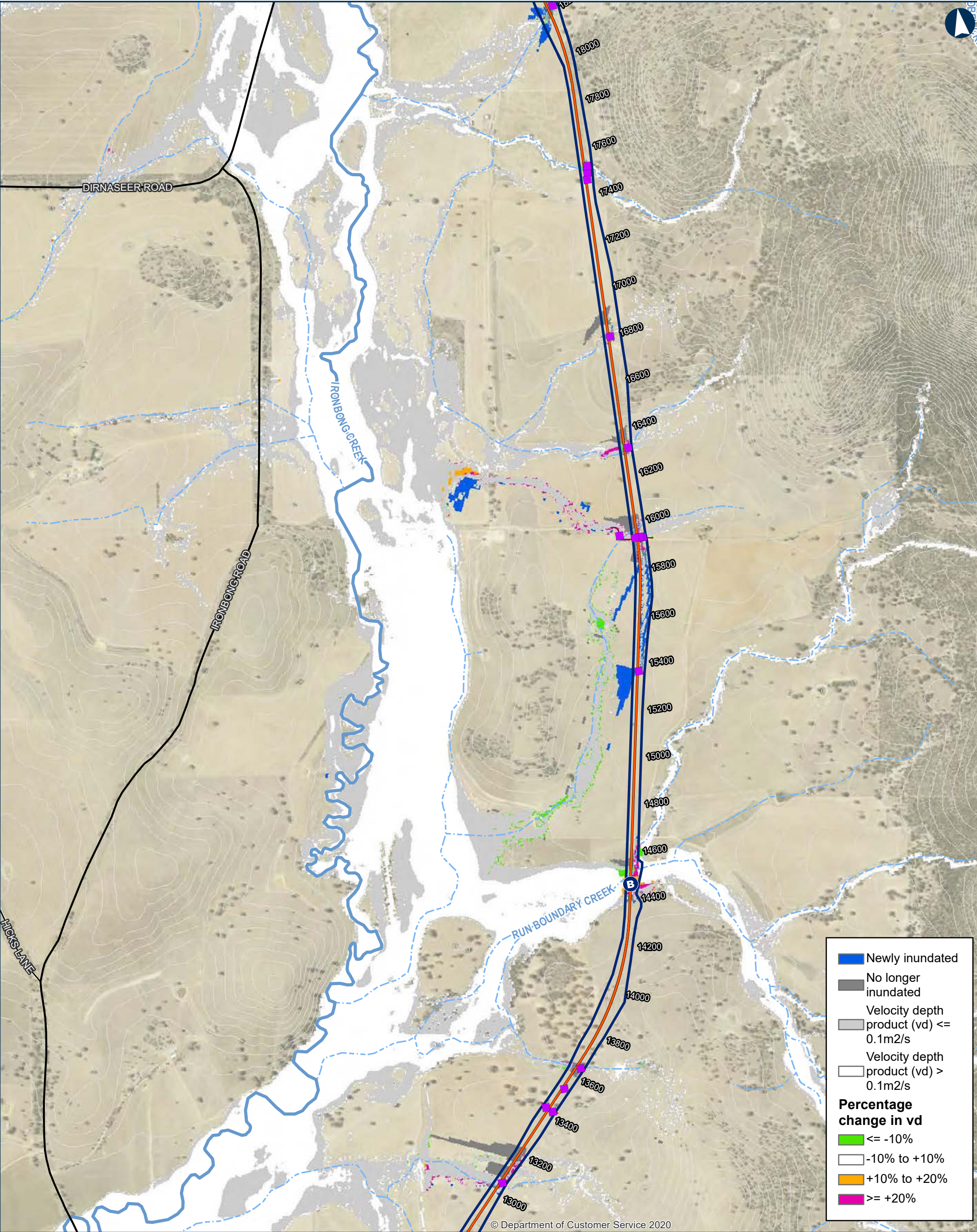
ILLABO TO STOCKINBINAL 0.05% AEP Change in Hazard

Map 3 of 9



INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL 0.05% AEP Change in Hazard

Map 4 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Data Sources: IRDJV, ARTC, LPI

Paper: A3
Scale: 1:15,000

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

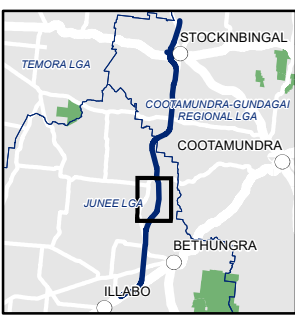
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

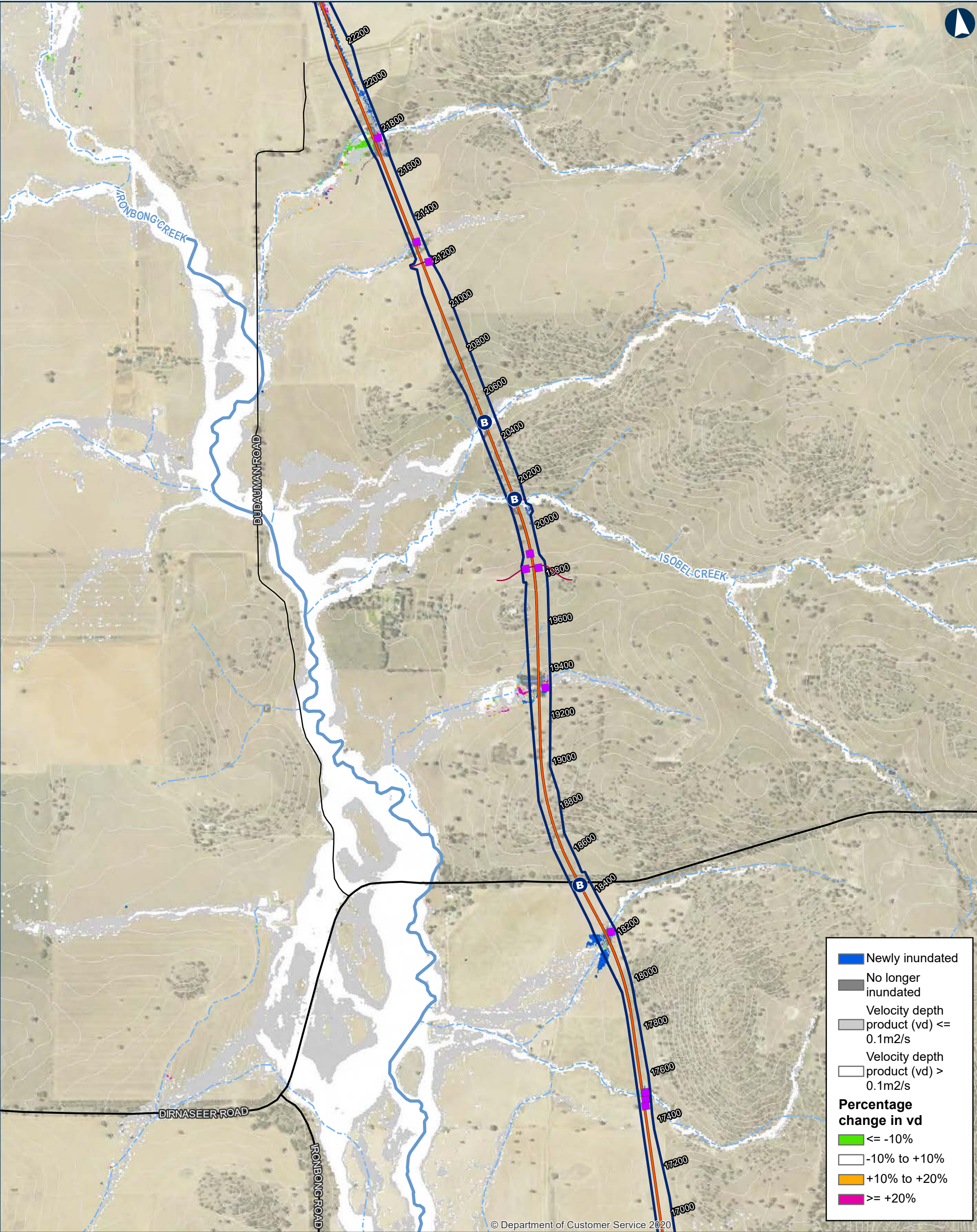
Sub-arterial road

Arterial road



INLAND RAIL **ARTC**

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ILLABO TO STOCKINBINGAL 0.05% AEP Change in Hazard

Map 5 of 9

0 200 400 Metres

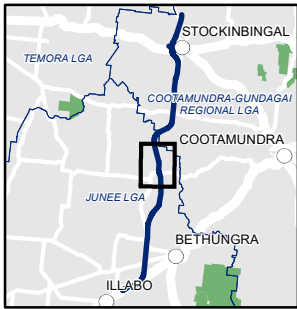
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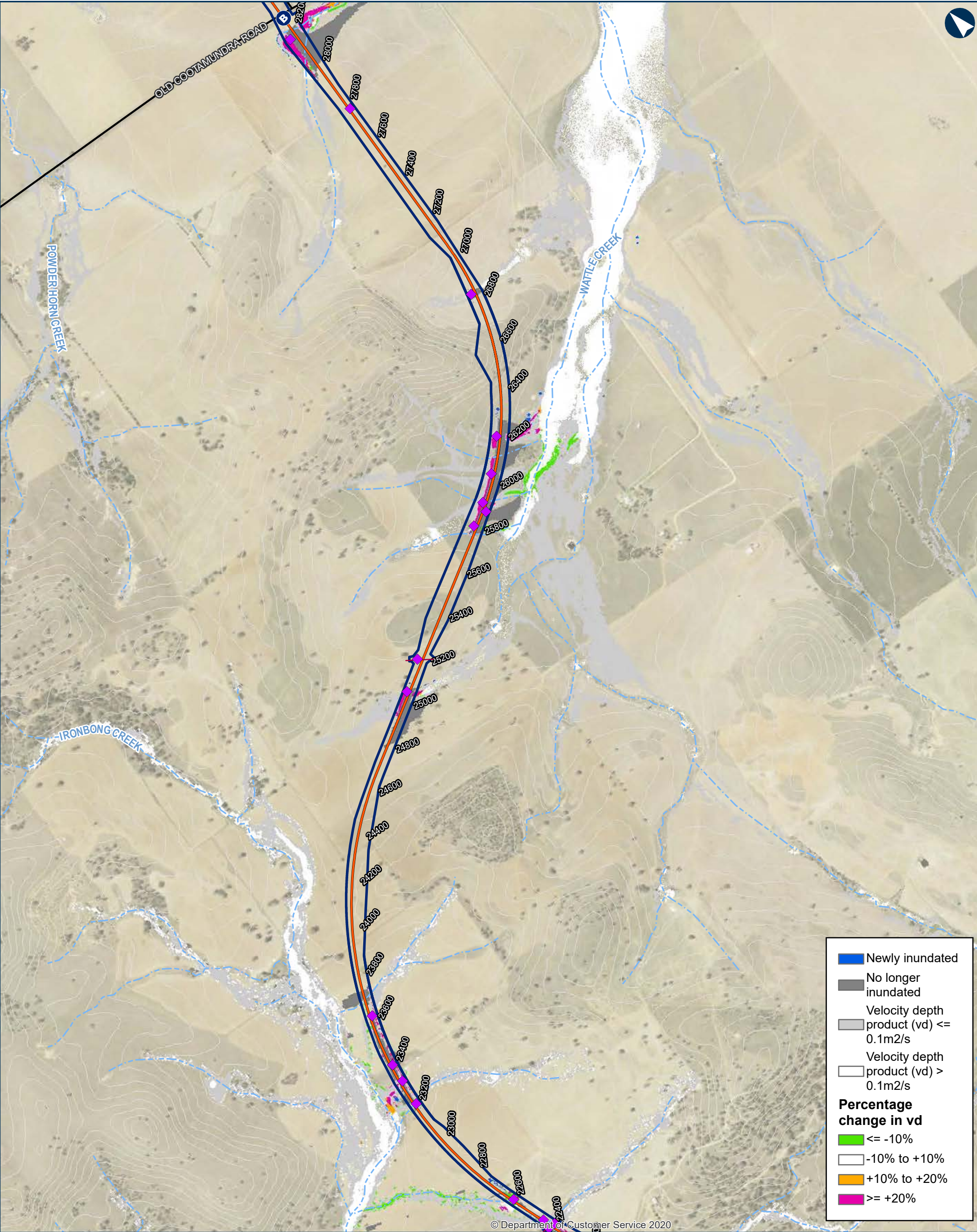
Paper: A3
Scale: 1:15,000

- Permanent acquisition boundary
- Chainage (distance in metres from southern limit of the proposal) 40950
- New track/track upgrade
- Overbridge
- Underbridge
- Culvert
- 5m Contours
- Existing rail
- Minor watercourse (Strahler SO 1-3)
- Major watercourse (Strahler SO 4-6)
- Local road
- Sub-arterial road
- Arterial road



INLAND RAIL **ARTC**

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ILLABO TO STOCKINBINGAL 0.05% AEP Change in Hazard

Map 6 of 9

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

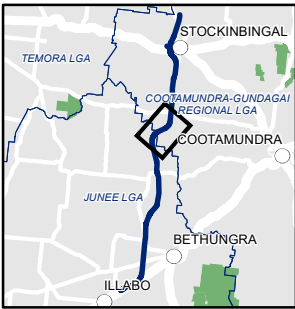
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

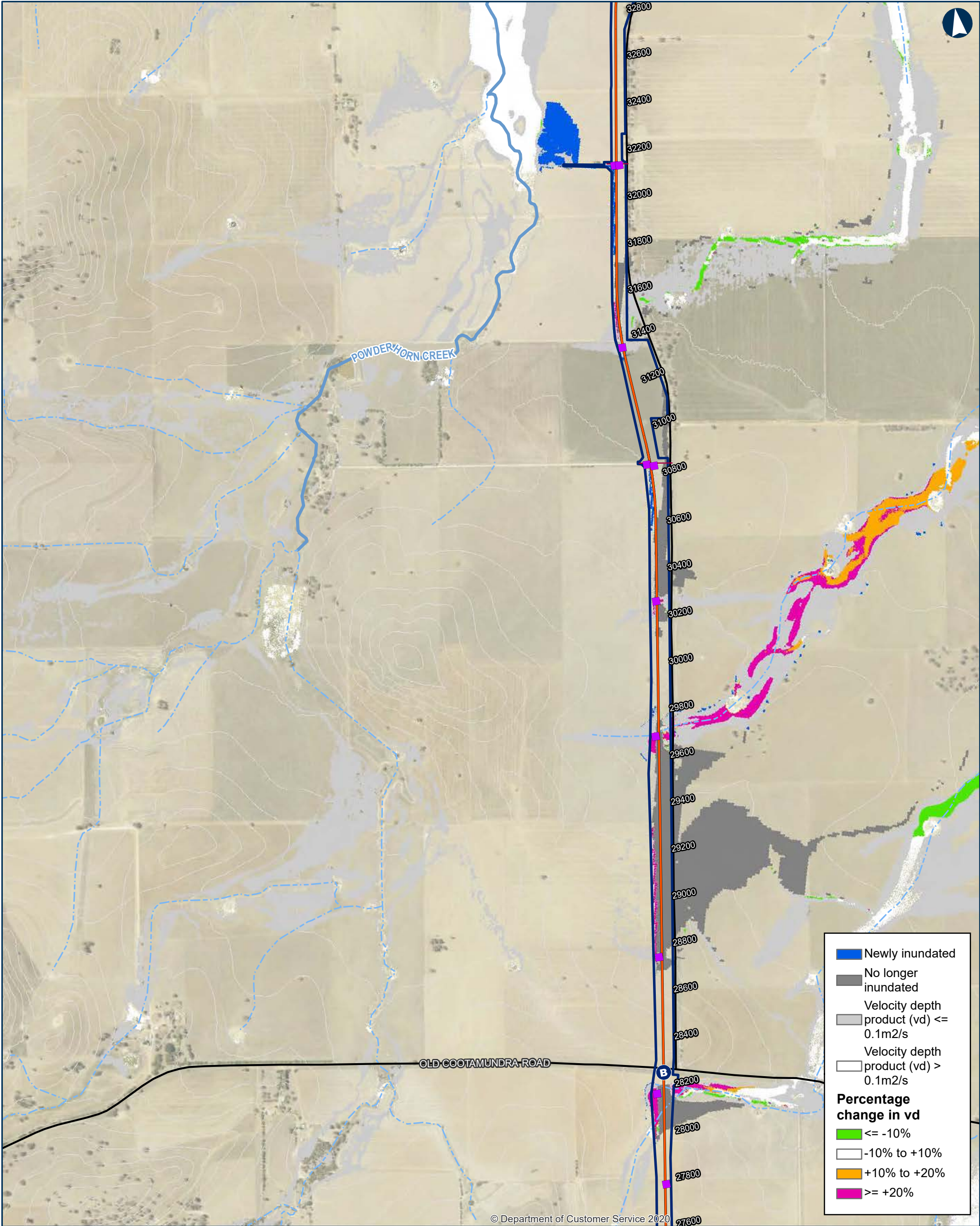
Sub-arterial road

Arterial road



INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL 0.05% AEP Change in Hazard

Map 7 of 9

0 200 400 Metres

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Author: IRDJV

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Permanent acquisition boundary

40950

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade



Overbridge



Underbridge



Culvert

5m Contours

Existing rail

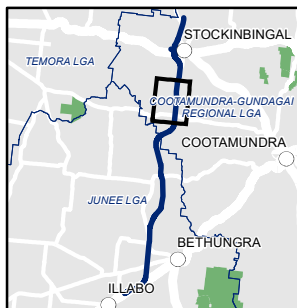
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

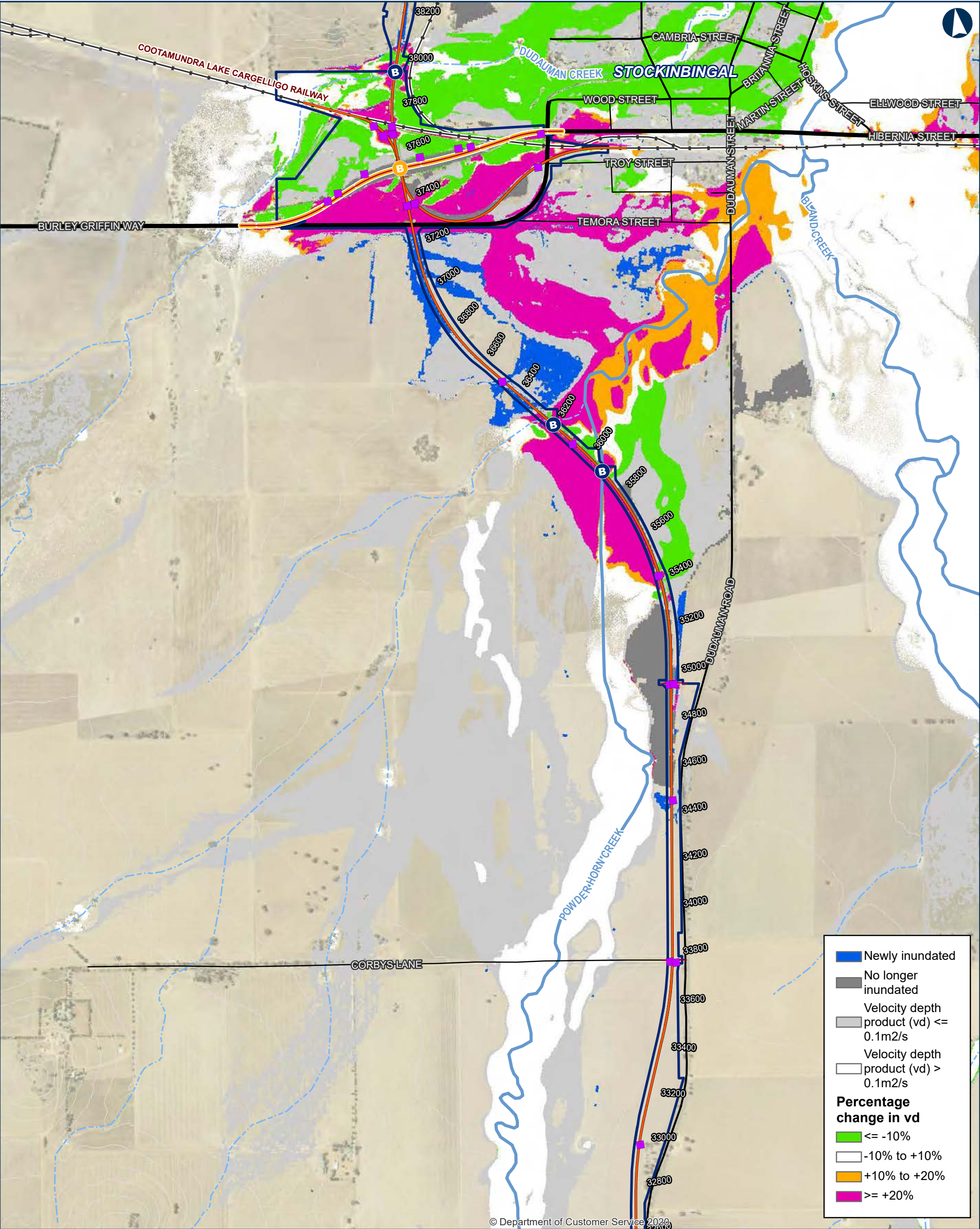
Sub-arterial road

Arterial road



INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL 0.05% AEP Change in Hazard

Map 8 of 9

0 200 400
Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 5/10/2023

Paper: A3

Author: IRDJV

Scale: 1:15,000

Data Sources: IRDJV, ARTC, LPI

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Burley Griffin Way realignment

B

Overbridge

B

Underbridge

■

Culvert

—

5m Contours

—

Existing rail

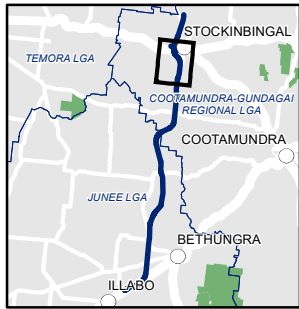
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

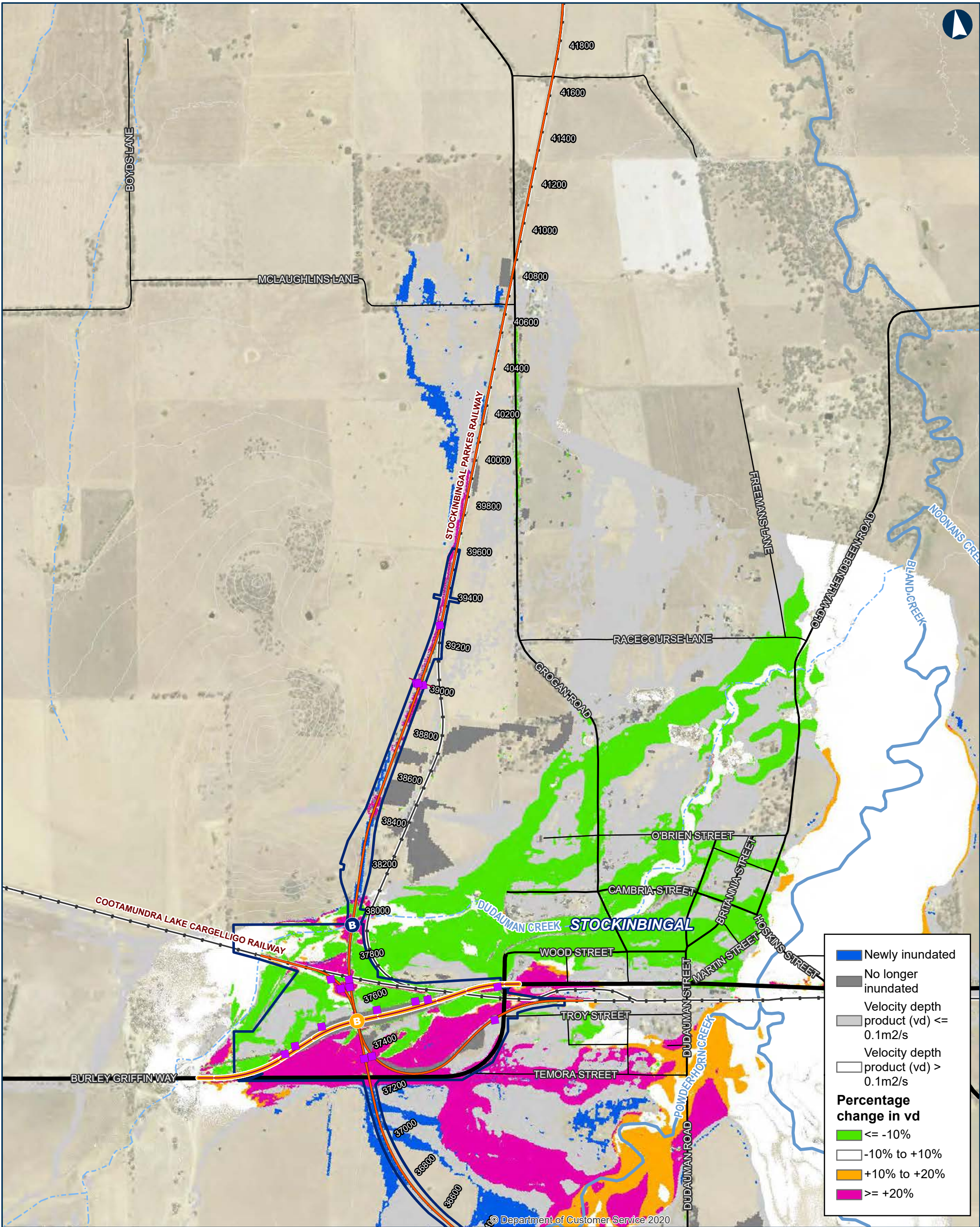
Sub-arterial road

Arterial road



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



0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 5/10/2023
Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Burley Griffin Way realignment

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

Sub-arterial road

Arterial road

STOCKINBINGAL

COOTAMUNDRA-GUNDAGAI REGIONAL LGA

COOTAMUNDRA

JUNEE LGA

BETHUNGRA

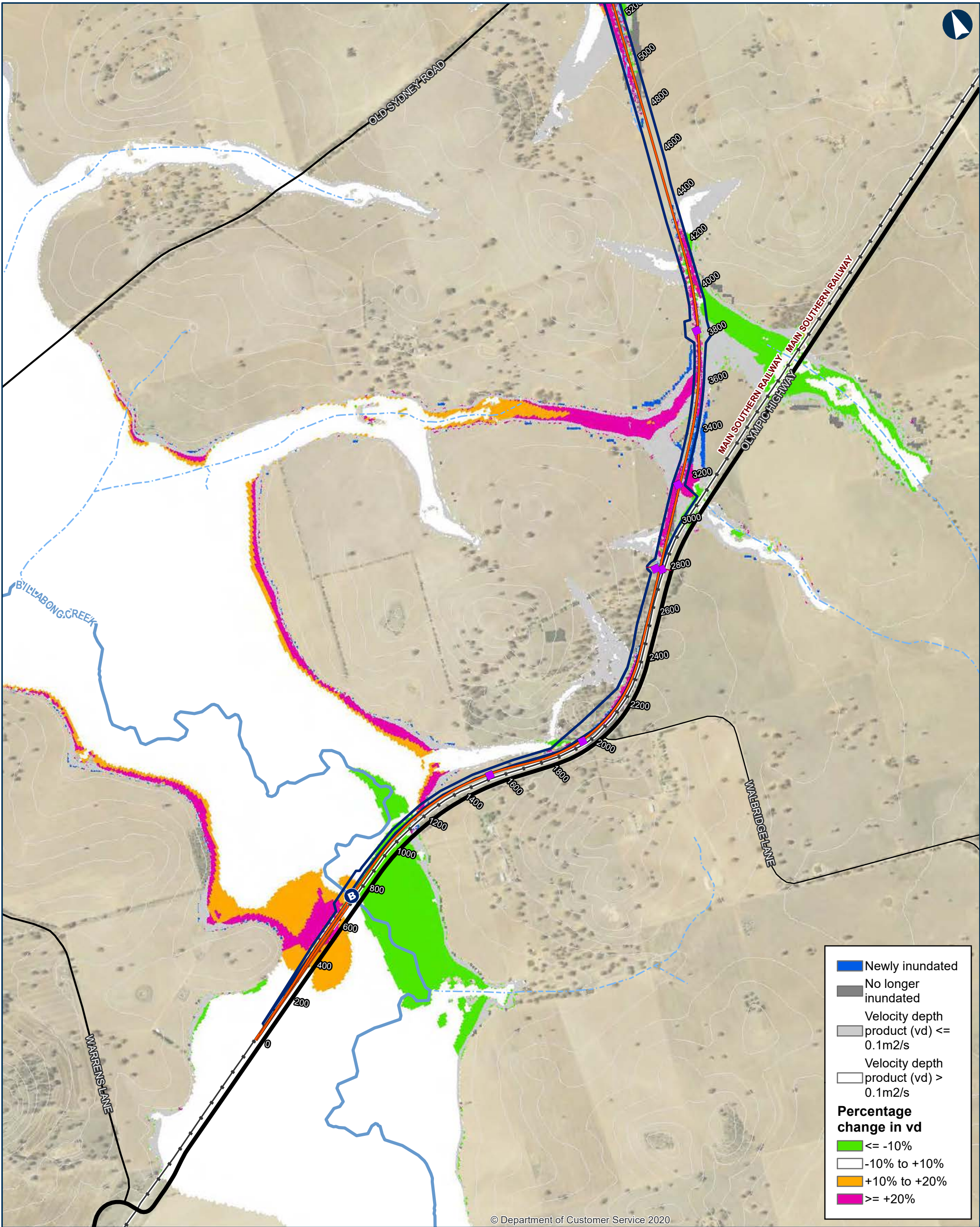
ILLABO

INLAND RAIL

ARTC

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\\corp.pbwan.net\ANZ\Projects\IPS108286_Inland_Rail_Illab4_WIP\GIS\AWS\IPS108286_I2SITasks\220_0122_HYD_HydrologyReport\June2023\Documents\0_05AEP\220_0122_HYD_0_05AEPHazard_v5.mxd



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ILLABO TO STOCKINBINGAL Probable Maximum Flood: Change in Hazard

Map 1 of 9

0 200 400 Metres

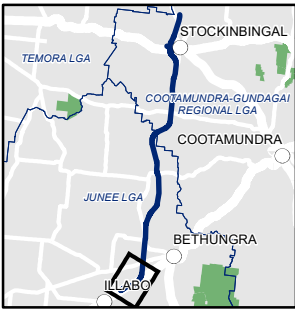
Coordinate System: GDA 1994 MGA Zone 55
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Date: 5/10/2023 Paper: A3
Author: IRDJV Scale: 1:15,000
Data Sources: IRDJV, ARTC, LPI

- Permanent acquisition boundary
- Chainage (distance in metres from southern limit of the proposal)
- 40950
- New track/track upgrade
- Overbridge

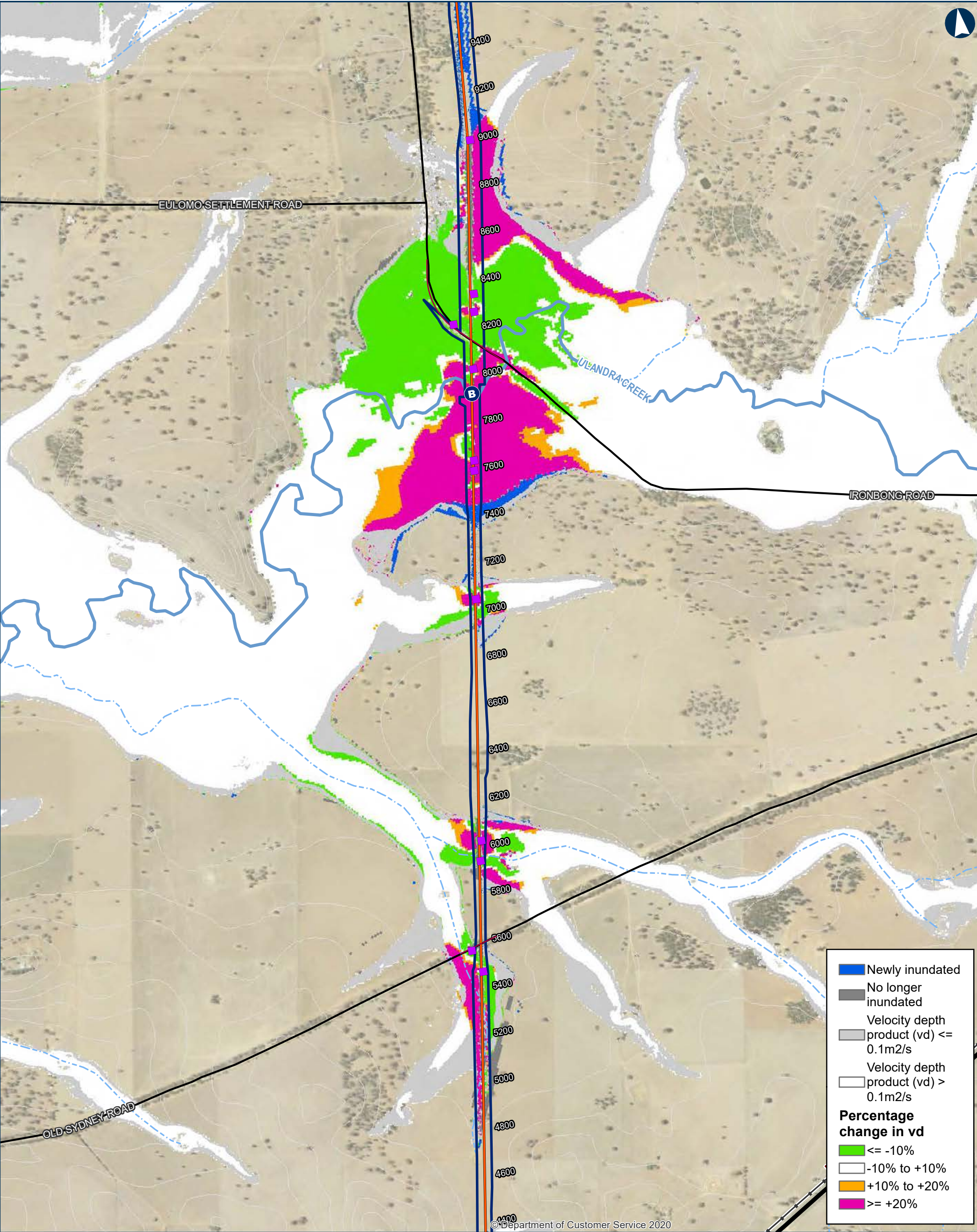
- Underbridge
- Culvert
- 5m Contours
- Existing rail
- Minor watercourse (Strahler SO 1-3)
- Major watercourse (Strahler SO 4-6)
- Local road

- Sub-arterial road
- Arterial road



INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL Probable Maximum Flood: Change in Hazard

Map 2 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 5/10/2023
Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

Paper: A3
Scale: 1:15,000

40950

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Overbridge

B Underbridge

Culvert

5m Contours

Existing rail

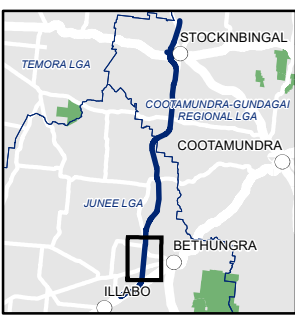
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

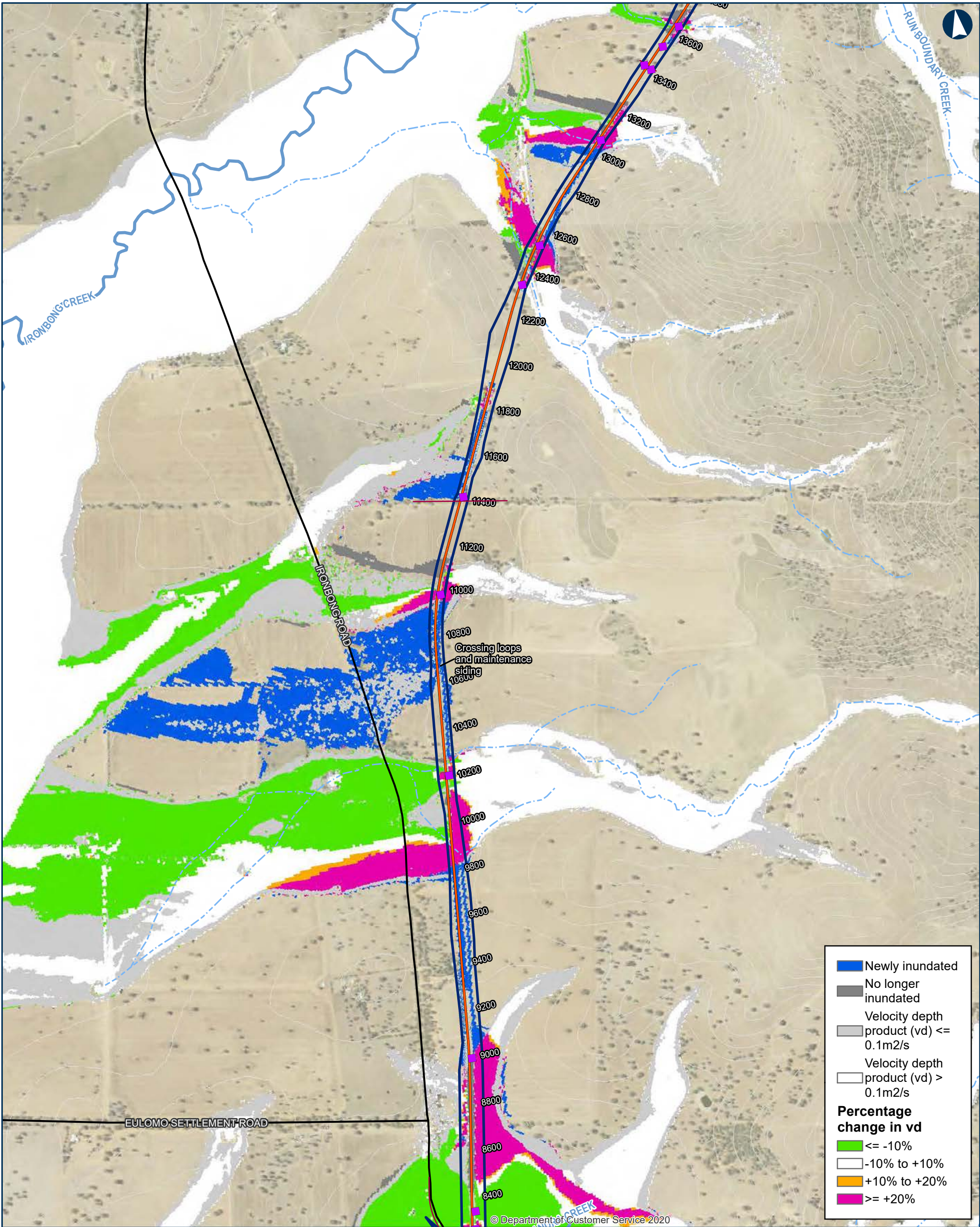
Sub-arterial road

Arterial road



INLAND RAIL **ARTC**

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ILLABO TO STOCKINBINGAL Probable Maximum Flood: Change in Hazard

Map 3 of 9

0 200 400 Metres

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Author: IRDJV Scale: 1:15,000
Data Sources: IRDJV, ARTC, LPI

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

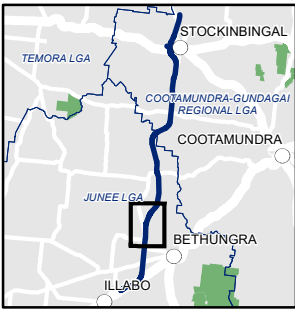
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

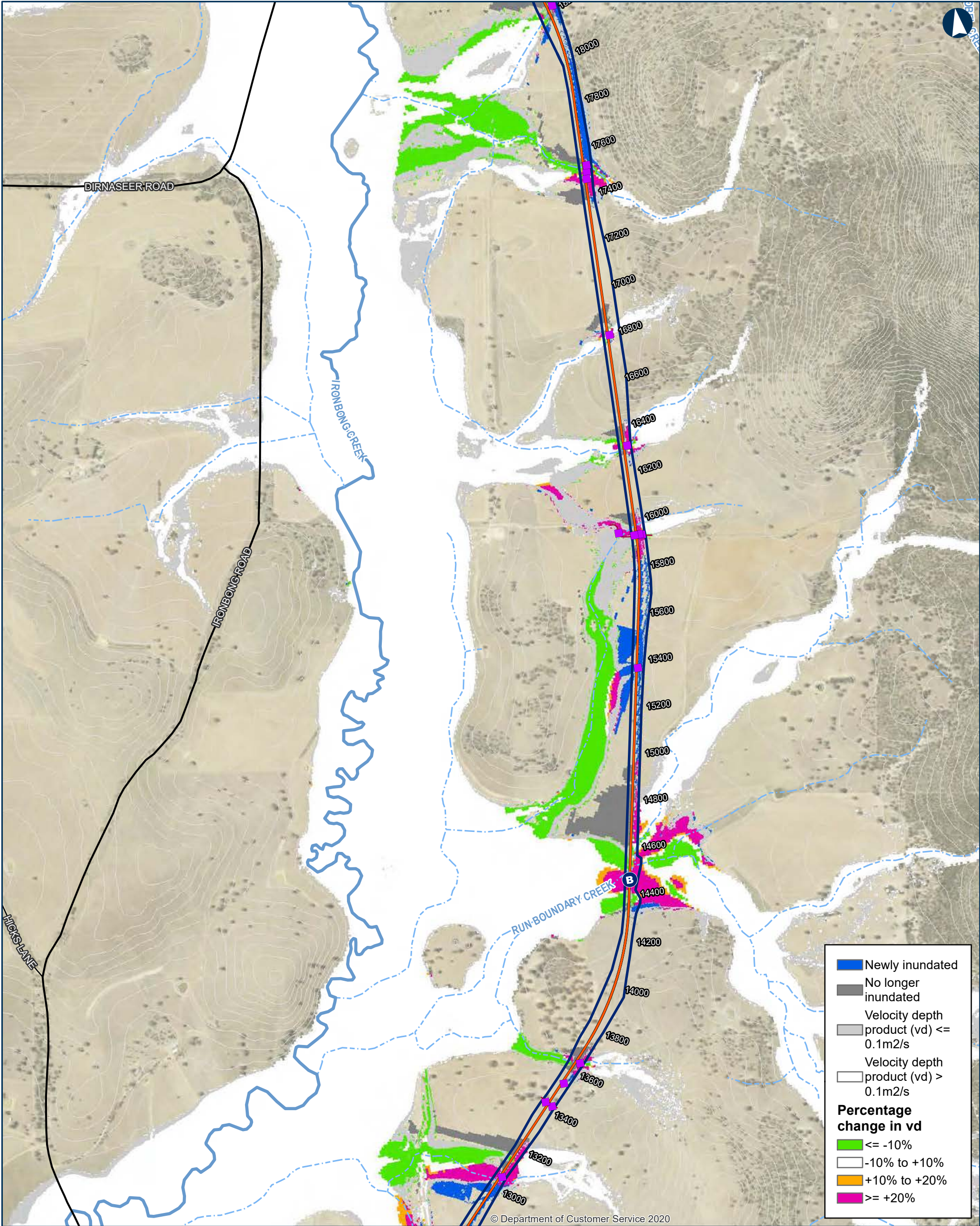
Sub-arterial road

Arterial road



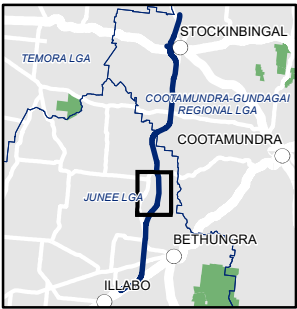
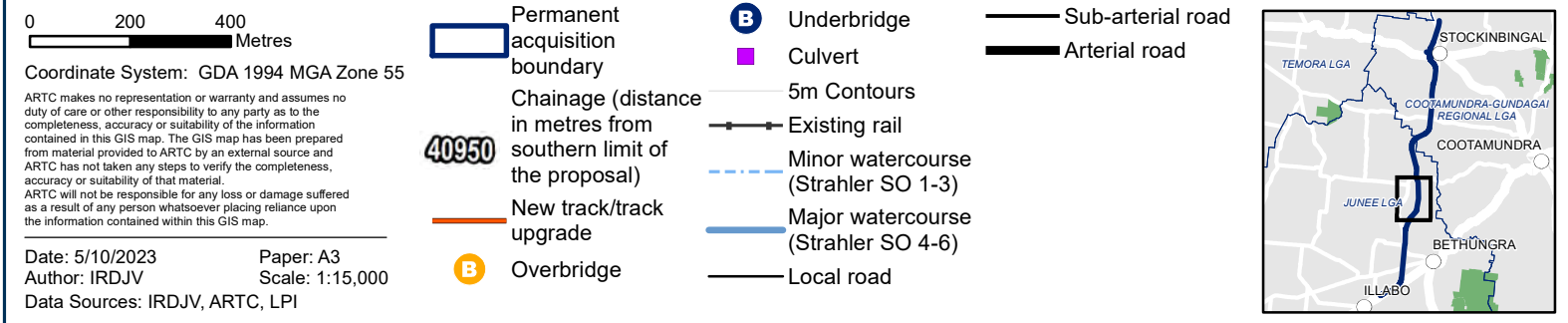
INLAND RAIL ARTC

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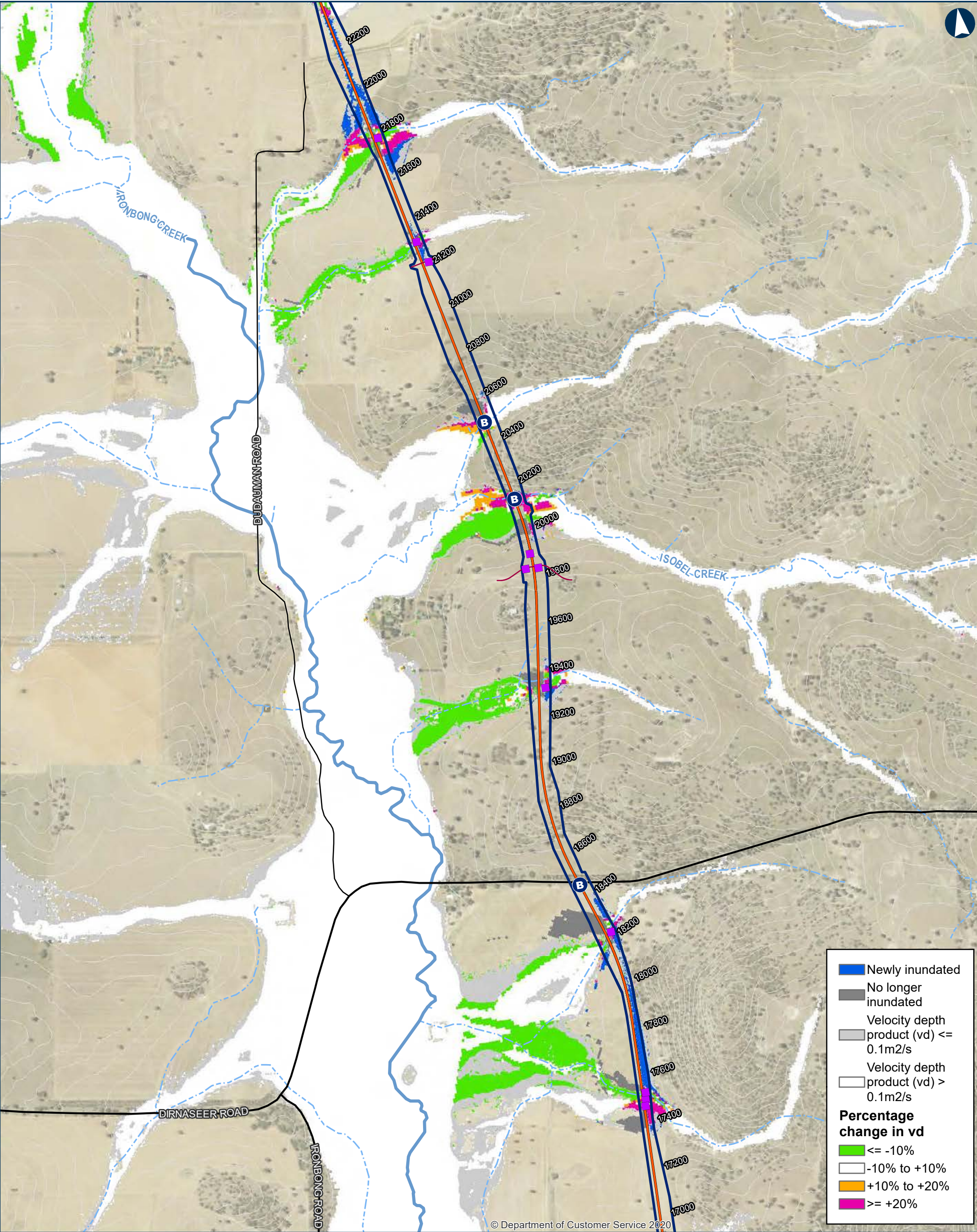
ILLABO TO STOCKINBINGAL Probable Maximum Flood: Change in Hazard

Map 4 of 9



INLAND RAIL **ARTC**

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ILLABO TO STOCKINBINGAL Probable Maximum Flood: Change in Hazard

Map 5 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 5/10/2023
Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

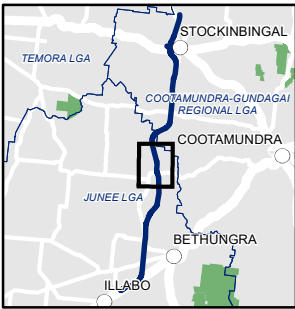
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

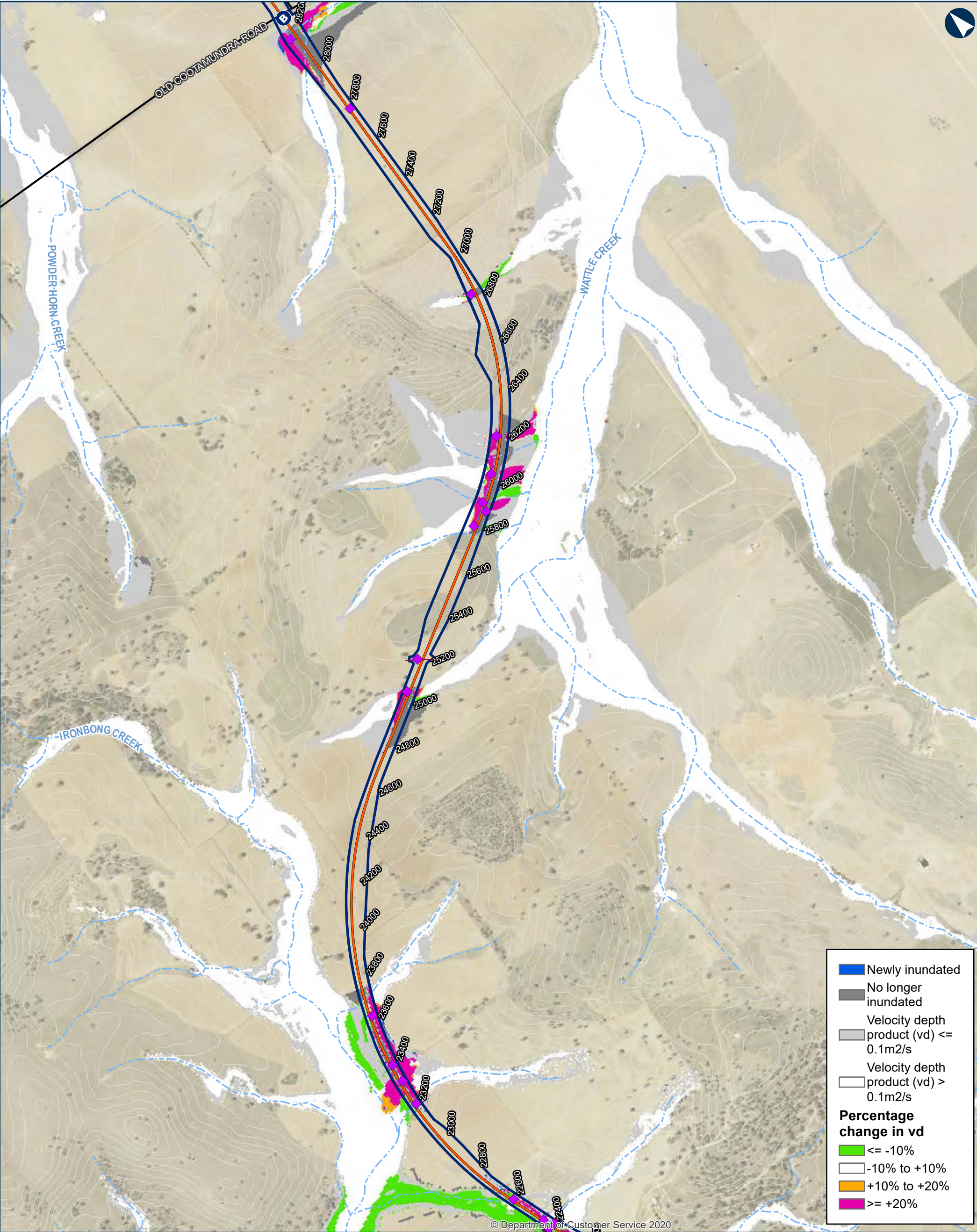
Sub-arterial road

Arterial road



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ILLABO TO STOCKINBINGAL Probable Maximum Flood: Change in Hazard

Map 6 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 5/10/2023
Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

Paper: A3
Scale: 1:15,000

40950 Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

B Overbridge

B Underbridge

Culvert

5m Contours

Existing rail

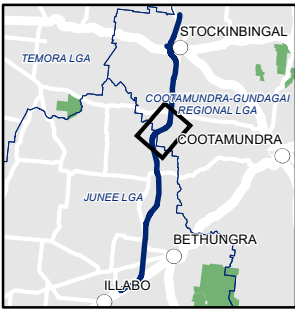
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

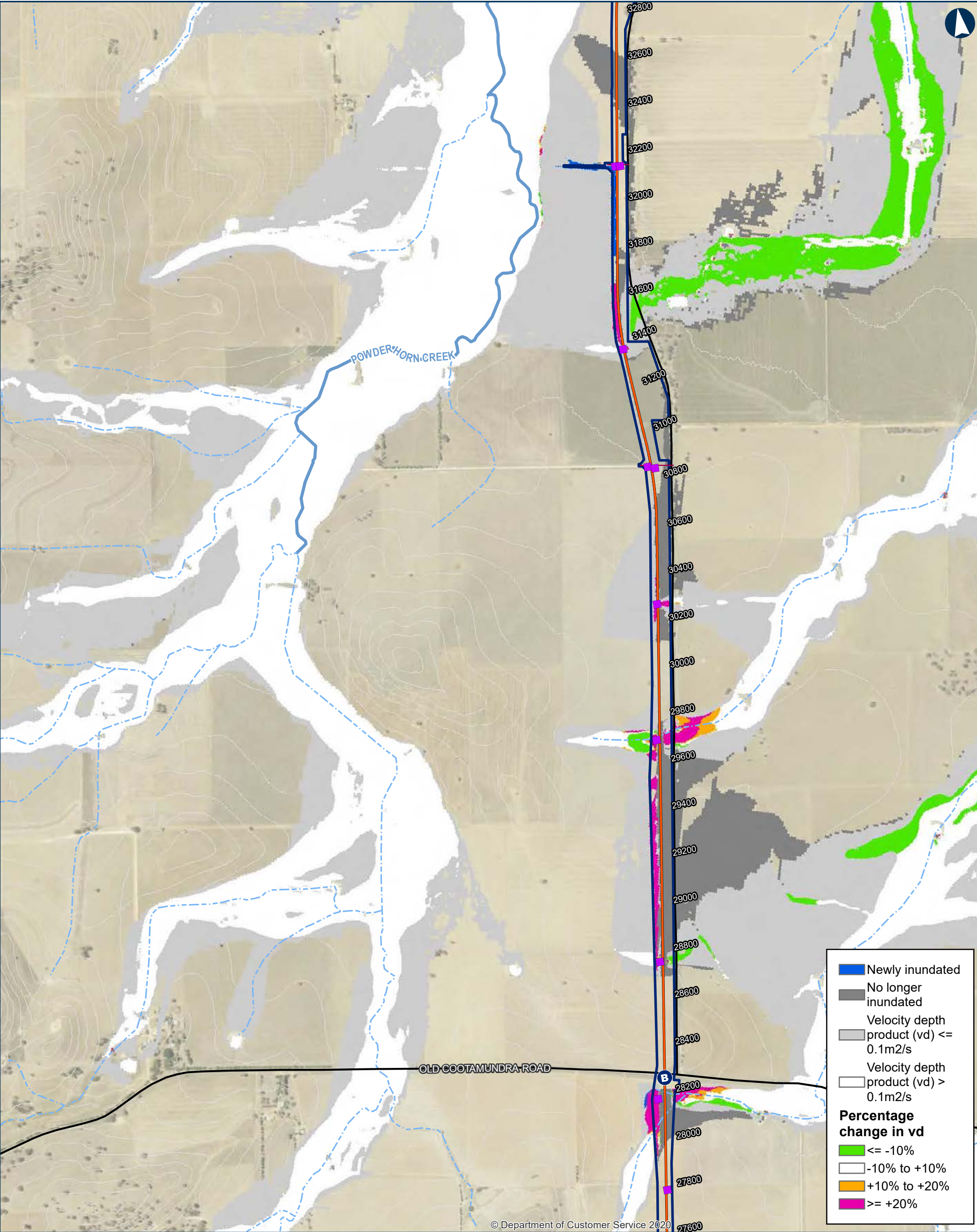
Sub-arterial road

Arterial road



INLAND RAIL **ARTC**

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ILLABO TO STOCKINBINGAL Probable Maximum Flood: Change in Hazard

Map 7 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 5/10/2023

Paper: A3

Author: IRDJV

Scale: 1:15,000

Data Sources: IRDJV, ARTC, LPI

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

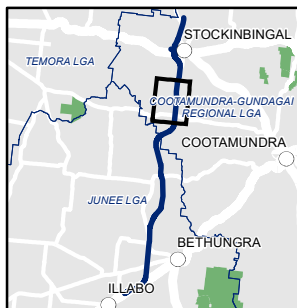
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

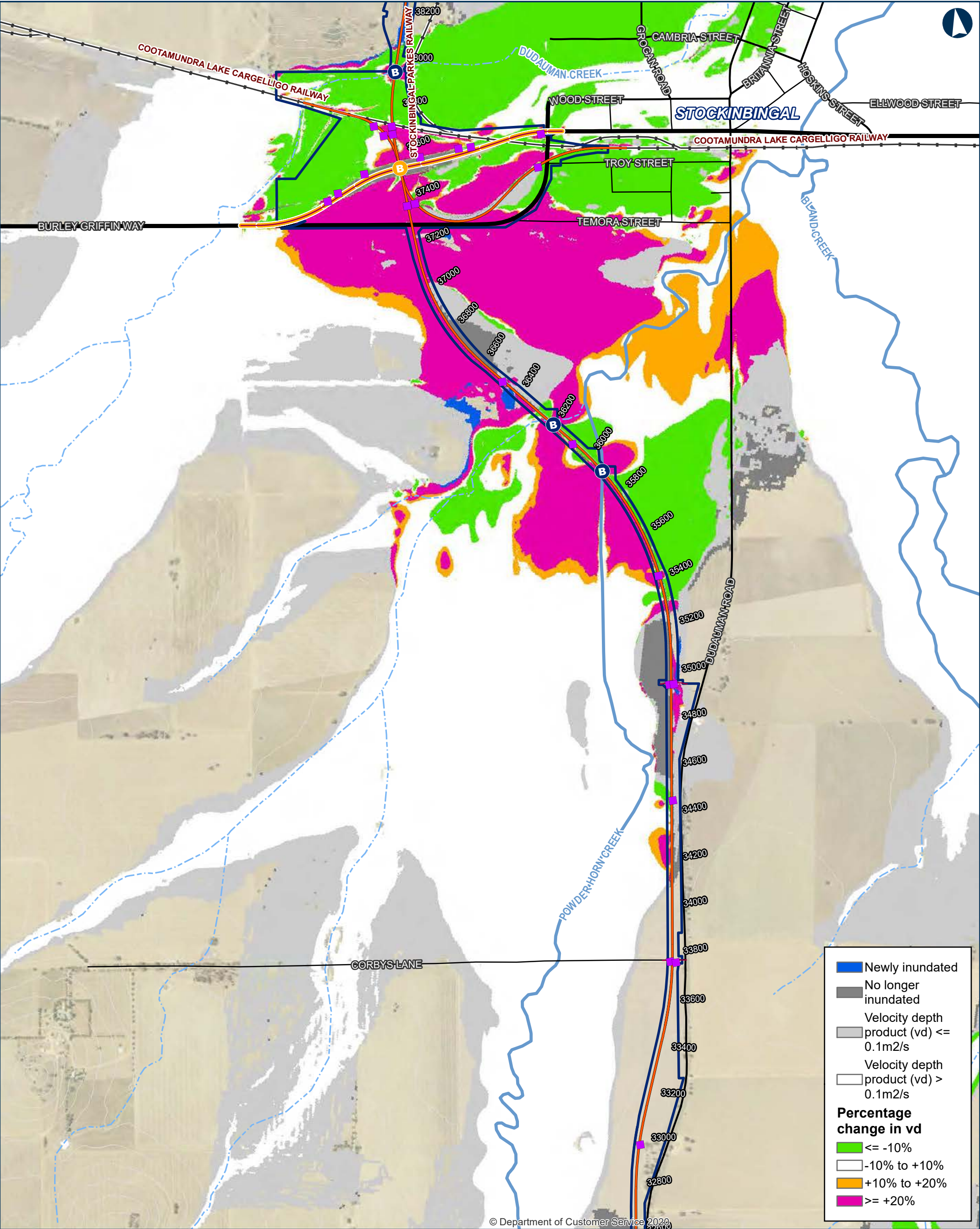
Sub-arterial road

Arterial road



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ILLABO TO STOCKINBINGAL Probable Maximum Flood: Change in Hazard

Map 8 of 9

0 200 400
Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 5/10/2023

Paper: A3

Author: IRDJV

Scale: 1:15,000

Data Sources: IRDJV, ARTC, LPI

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Burley Griffin Way realignment

B

Overbridge

B

Underbridge

■

Culvert

—

5m Contours

—

Existing rail

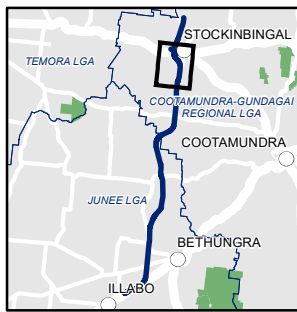
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

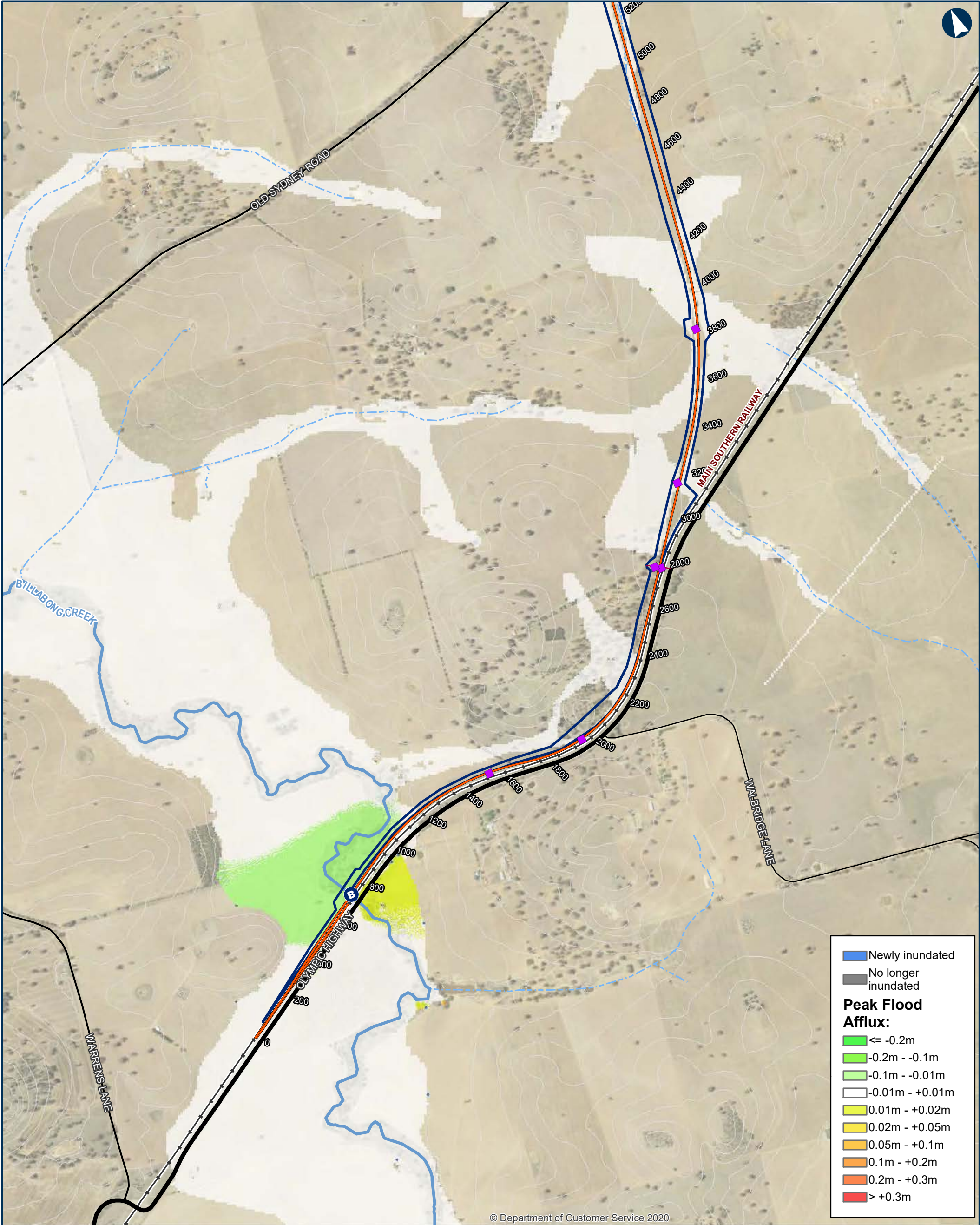
Sub-arterial road

Arterial road



INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL Change in Peak Water level for no culvert blockage

Map 1 of 9

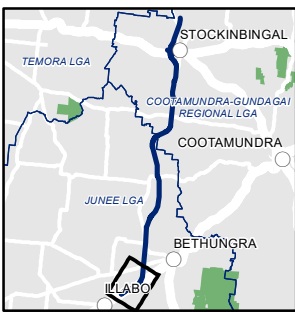
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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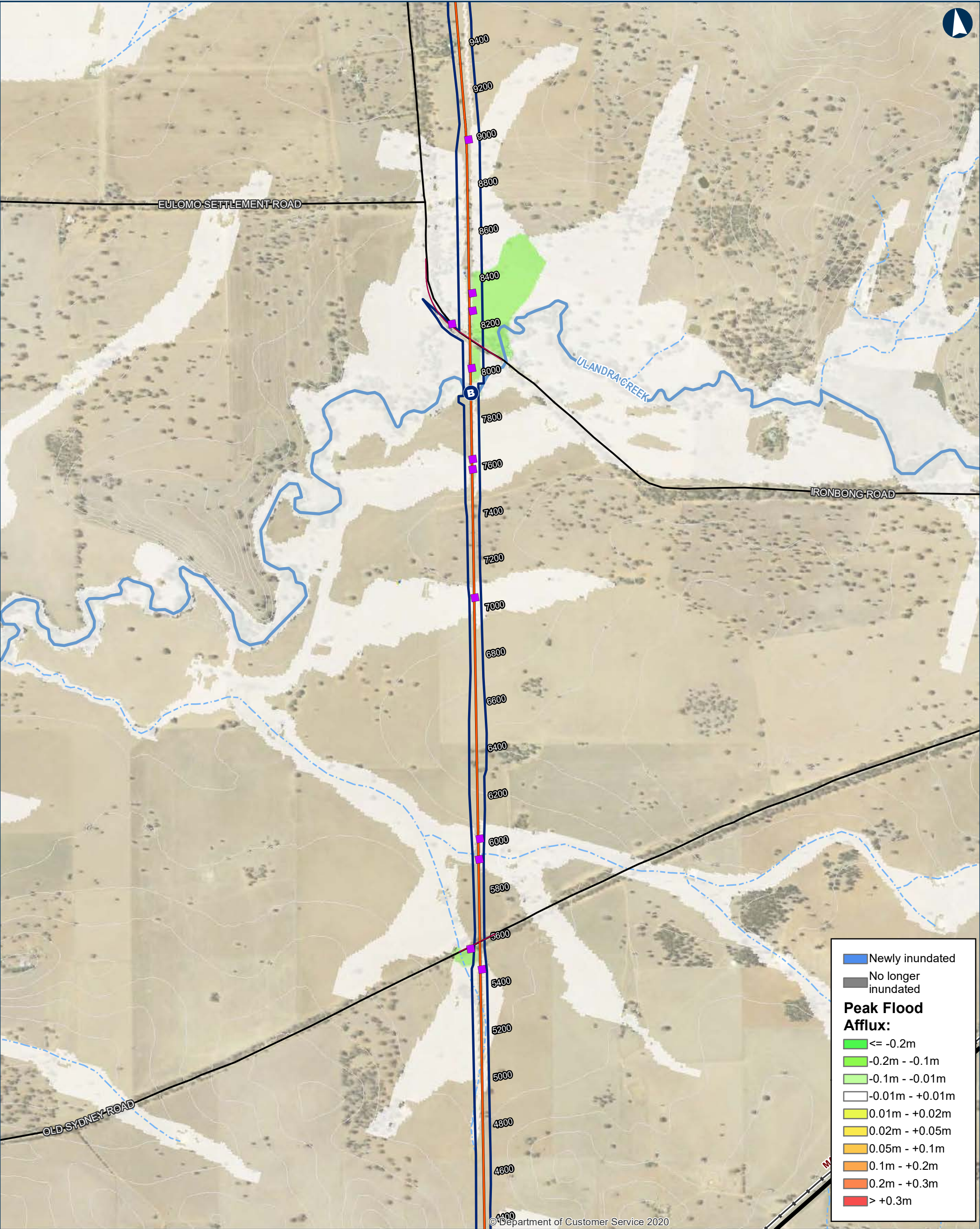
Date: 20/10/2023 Paper: A3
Author: IRDJV Scale: 1:15,000
Data Sources: IRDJV, ARTC, LPI

- Permanent acquisition boundary
- Chainage (distance in metres from southern limit of the proposal)
- New track/track upgrade
- Overbridge
- Underbridge
- Culvert
- 5m Contours
- Existing Rail
- Minor watercourse (Strahler SO 1-3)
- Major watercourse (Strahler SO 4-6)
- Local road
- Sub-arterial road
- Arterial road



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ILLABO TO STOCKINBINGAL Change in Peak Water level for no culvert blockage

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A3

Author: IRDJV

Scale: 1:15,000

Data Sources: IRDJV, ARTC, LPI

Permanent acquisition boundary

40950

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

B

Overbridge

B

Underbridge

Culvert

5m Contours

Existing Rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

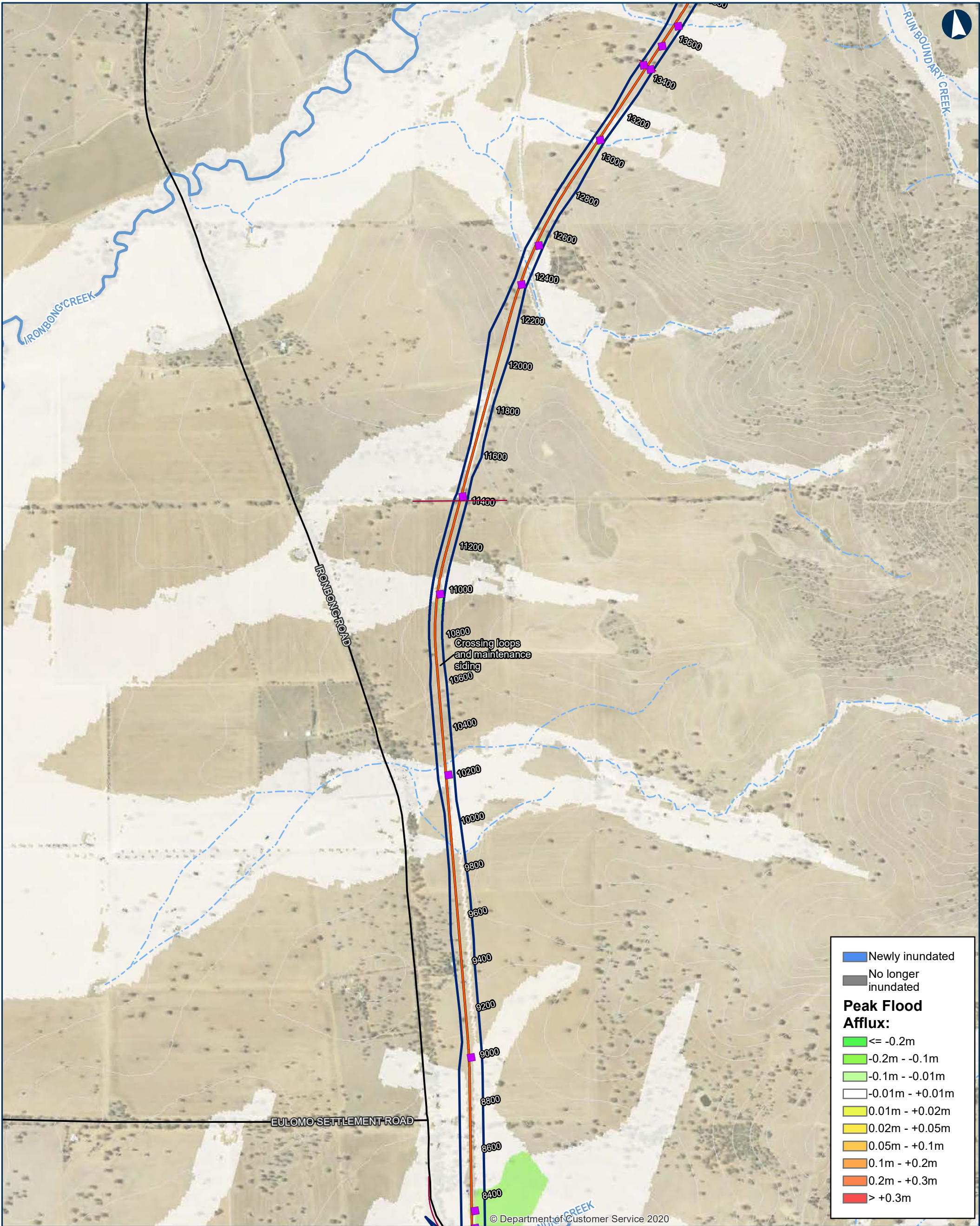
Sub-arterial road

Arterial road

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U:\Projects\PS108286_Inland_Rail_Illab4_WIP\GIS\AWS\PS108286_I2S\Tasks\220_0122_HYD_HydrologyReport\June2023\Documents\Bkage\220_0122_HYD_B2_Afflux_v6.mxd



ILLABO TO STOCKINBINAL Change in Peak Water level for no culvert blockage

0 200 400 Metres

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Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Overbridge

Underbridge

Culvert

5m Contours

Existing Rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

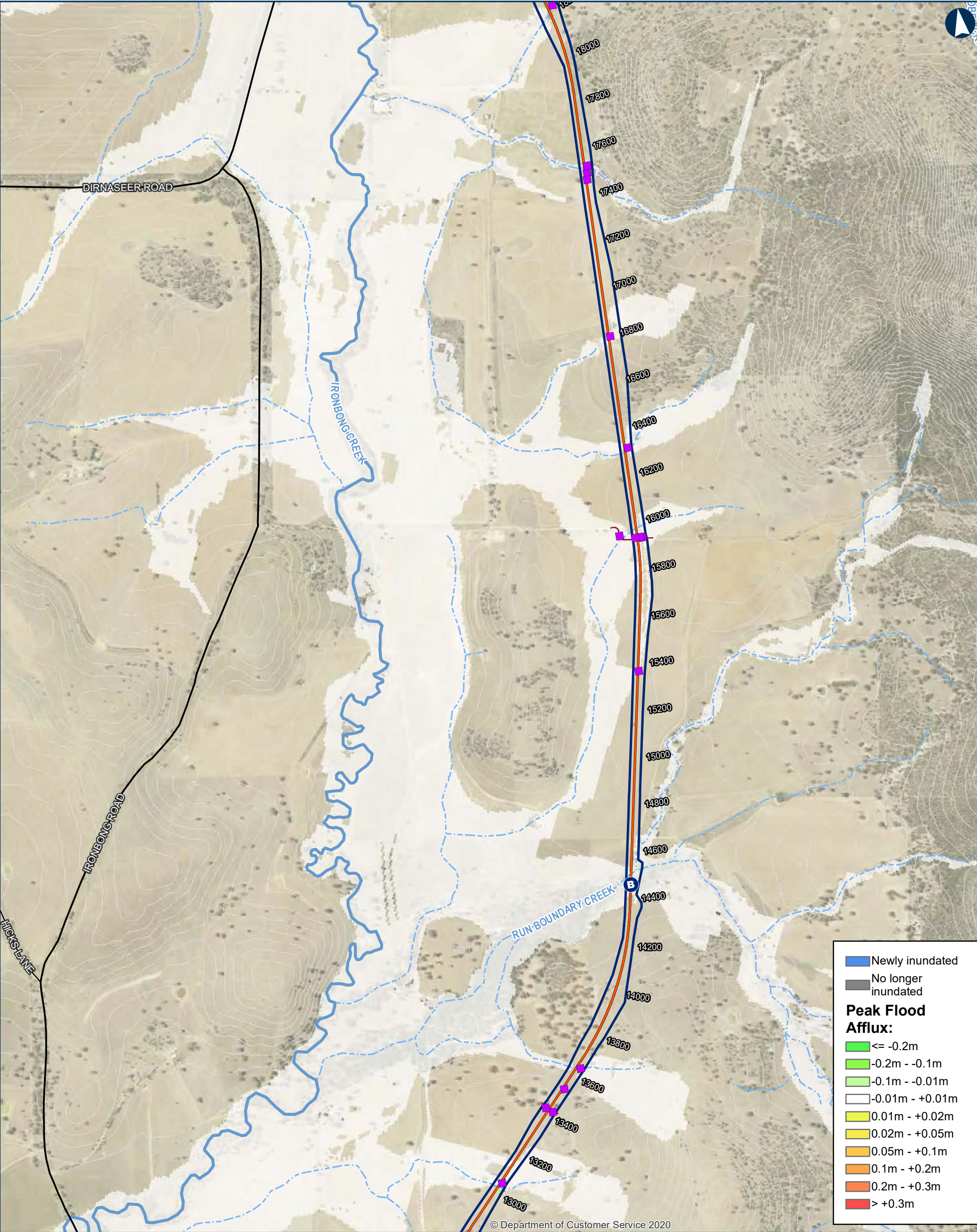
Local road

Sub-arterial road

Arterial road

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ILLABO TO STOCKINBINGAL Change in Peak Water level for no culvert blockage

0 200 400 Metres

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Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Overbridge

Underbridge

Culvert

5m Contours

Existing Rail

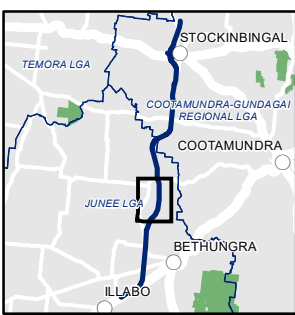
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

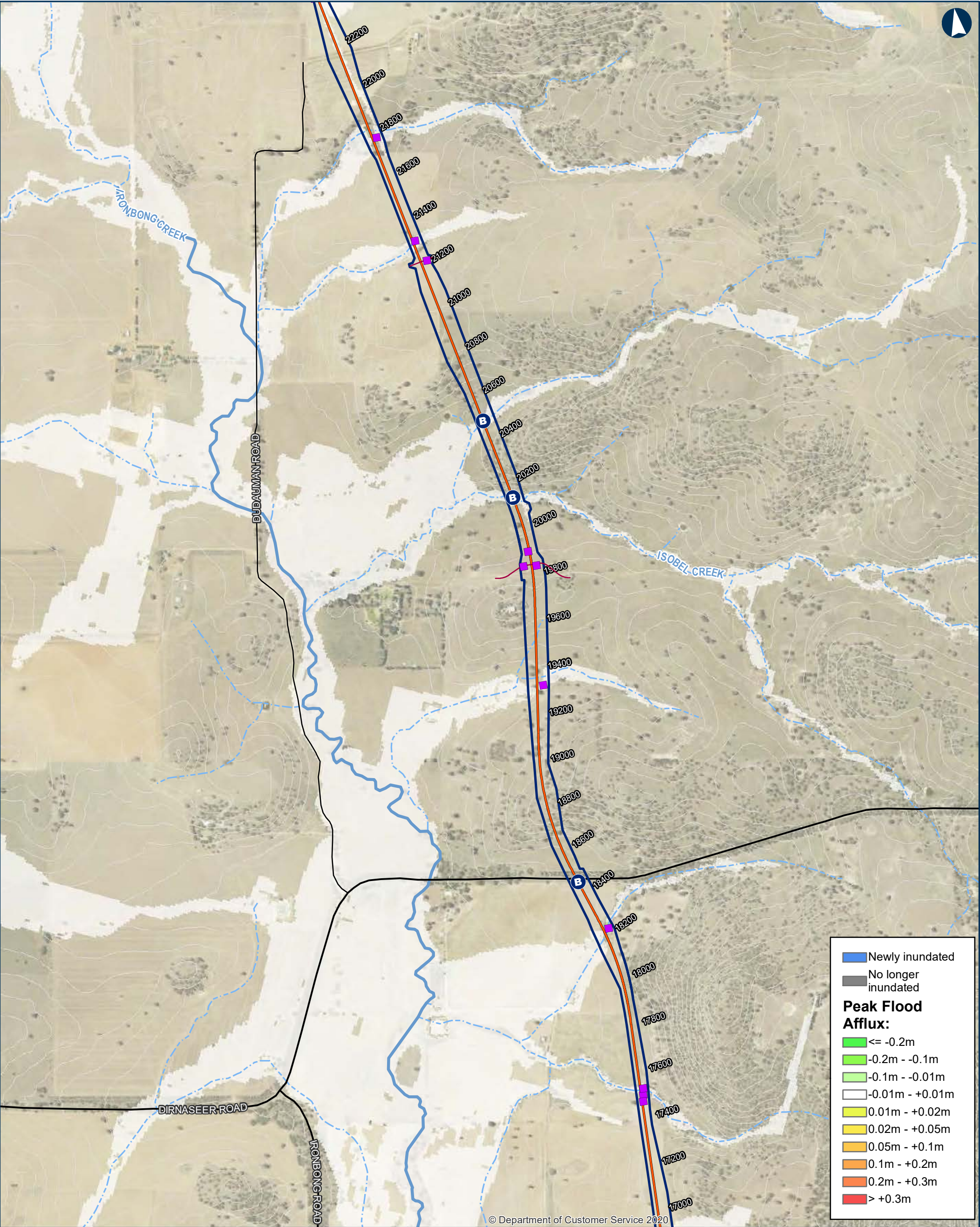
Sub-arterial road

Arterial road



INLAND RAIL **ARTC**

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



ILLABO TO STOCKINBINGAL Change in Peak Water level for no culvert blockage

Map 5 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Data Sources: IRDJV, ARTC, LPI

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Overbridge

Underbridge

Culvert

5m Contours

Existing Rail

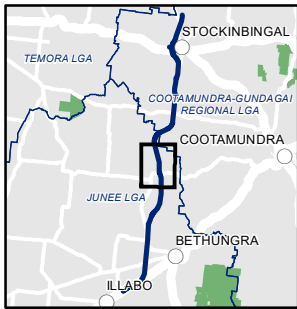
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

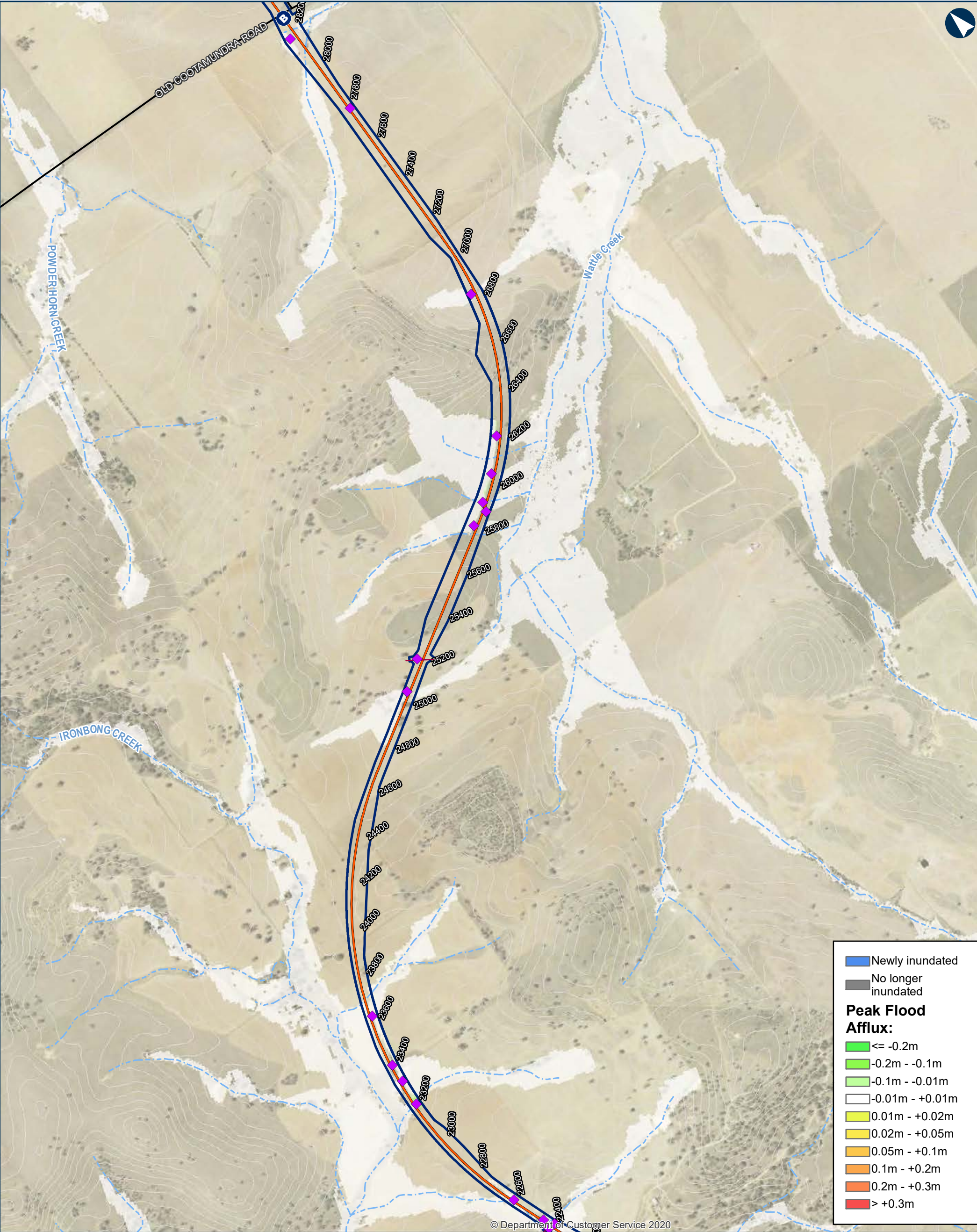
Sub-arterial road

Arterial road



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ILLABO TO STOCKINBINGAL Change in Peak Water level for no culvert blockage

0200400Metres

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Author: IRDJV
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Paper: A3
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Permanent acquisition boundary

40950

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

B

Overbridge

B

Underbridge

Culvert

5m Contours

Existing Rail

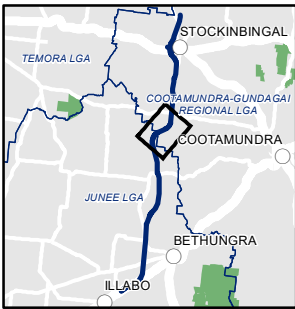
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

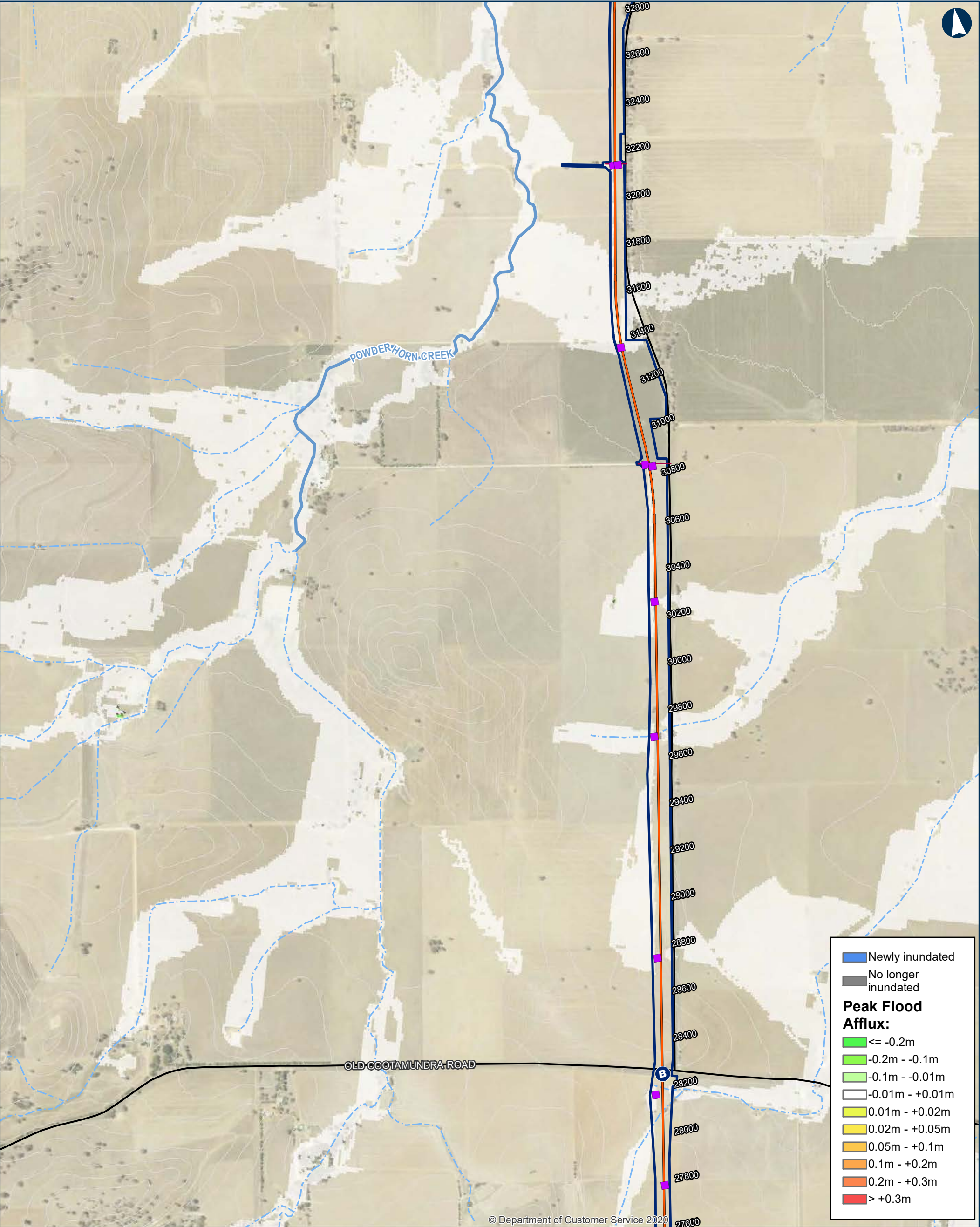
Sub-arterial road

Arterial road



INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL Change in Peak Water level for no culvert blockage Map 7 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

Paper: A3
Scale: 1:15,000

40950

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Overbridge

B Underbridge

Culvert

5m Contours

Existing Rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

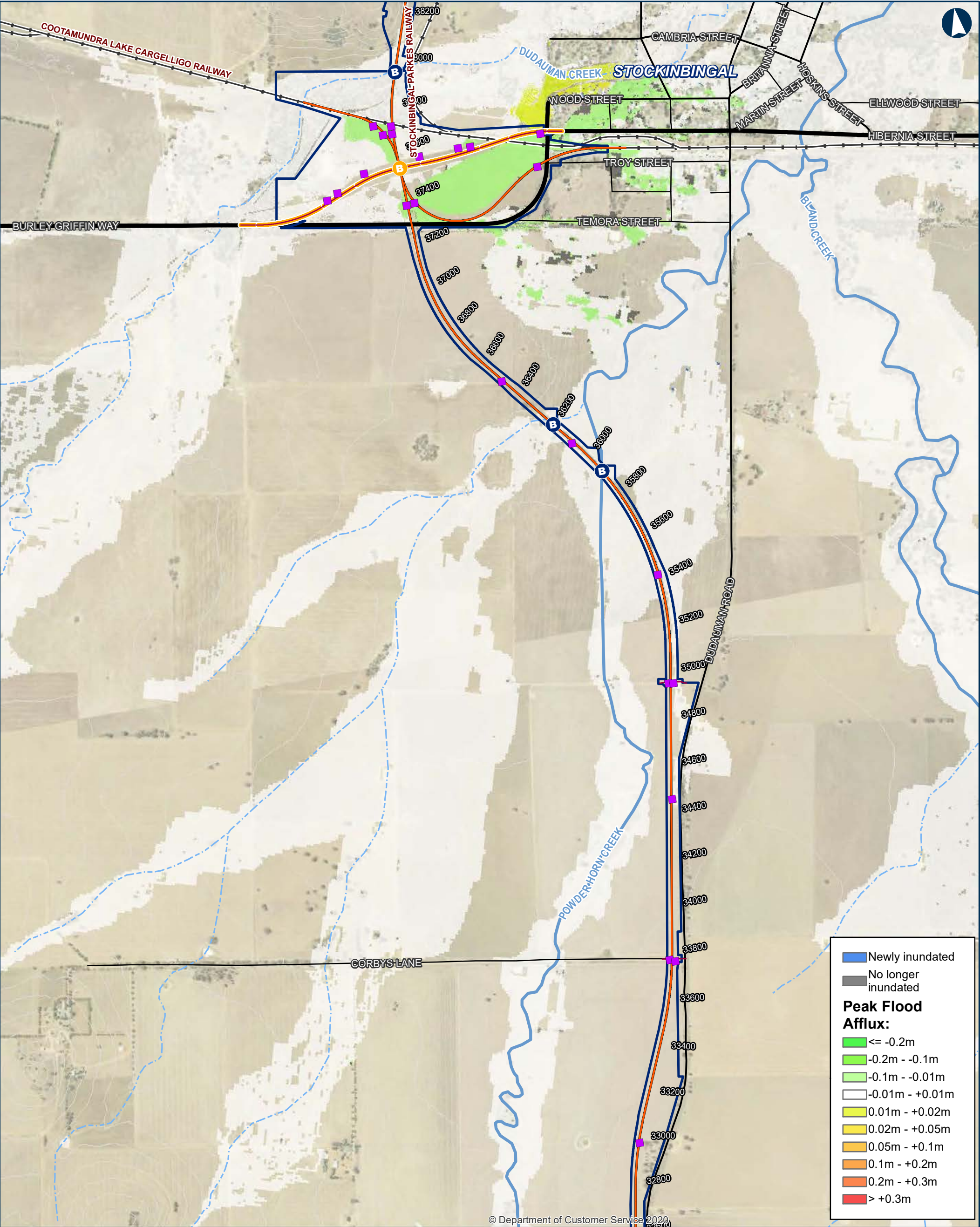
Local road

Sub-arterial road

Arterial road

INLAND RAIL **ARTC**

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ILLABO TO STOCKINBINGAL Change in Peak Water level for no culvert blockage

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 20/10/2023 Paper: A3
Author: IRDJV Scale: 1:15,000
Data Sources: IRDJV, ARTC, LPI

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Burley Griffin Way Realignment

Overbridge

Underbridge

Culvert

5m Contours

Existing Rail

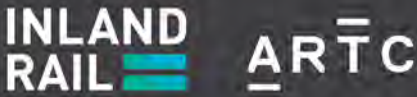
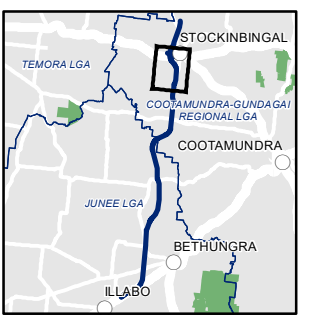
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

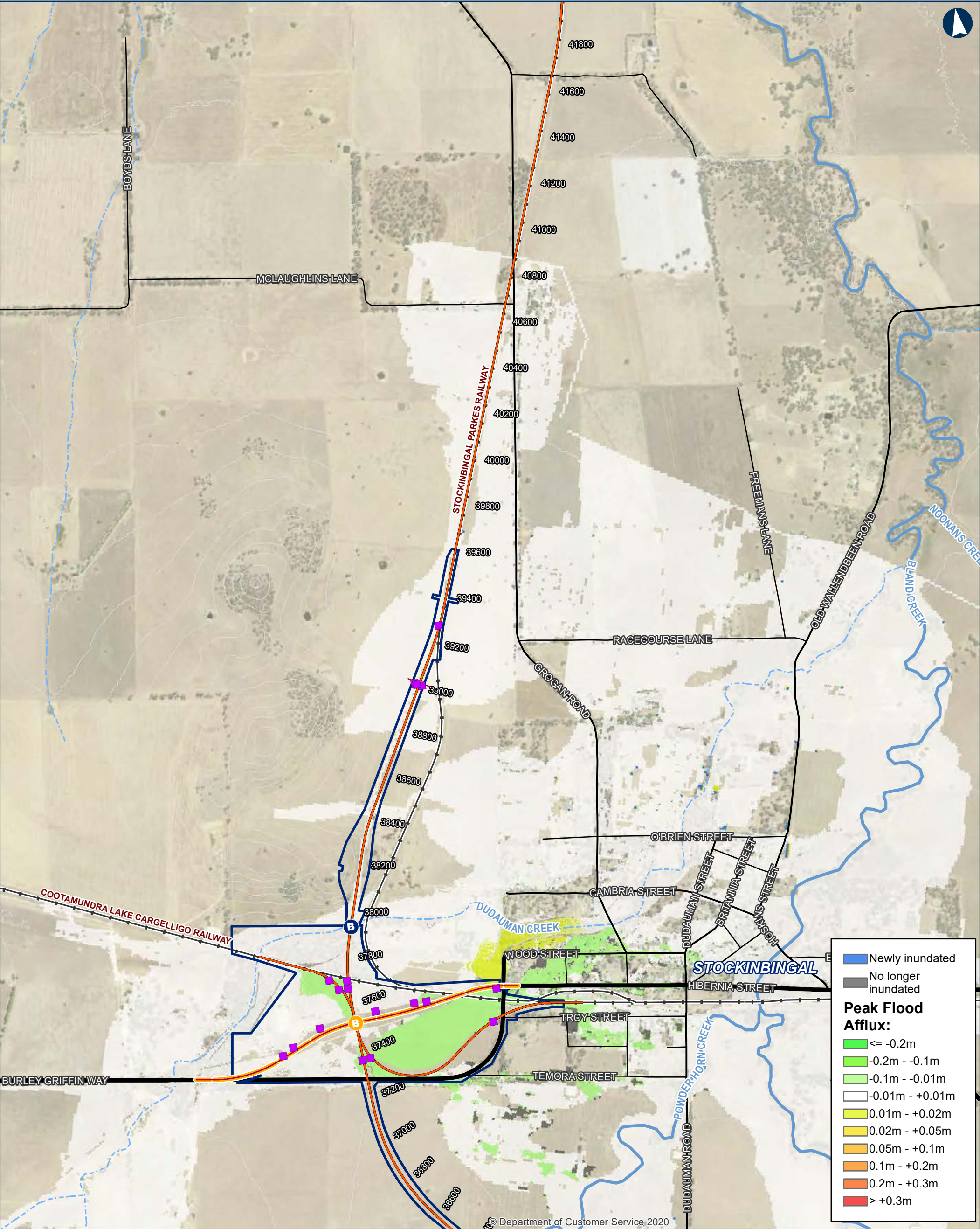
Local road

Sub-arterial road

Arterial road



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ILLABO TO STOCKINBINGAL Change in Peak Water level for no culvert blockage

0 200 400 Metres

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Underbridge

Culvert

5m Contours

Existing Rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

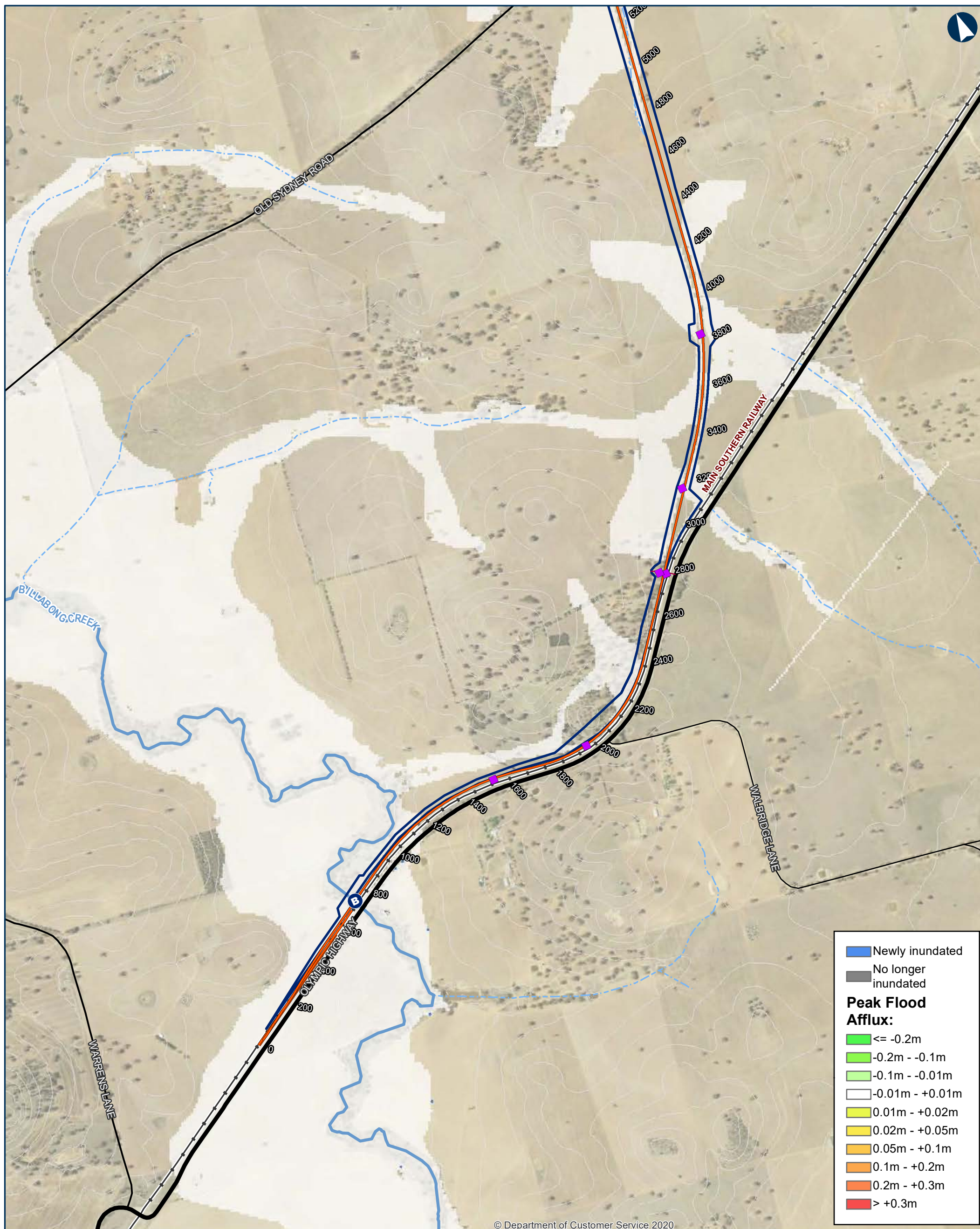
Local road

Sub-arterial road

Arterial road

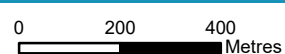
INLAND RAIL = ARTC

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ILLABO TO STOCKINBINGAL Change in Peak Water level for minimum 25% culvert blockage

Map 1 of 9







Coordinate System: GDA 1994 MGA Zone 55

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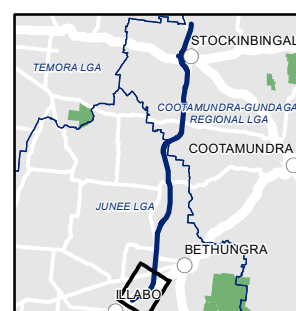
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Author: IRDJV Scale: 1:15,000
Data Sources: IRDJV, ARTC, LPI

-  Permanent acquisition boundary
-  Chainage (distance in metres from southern limit of the proposal)
-  New track/track upgrade
-  Overbridge

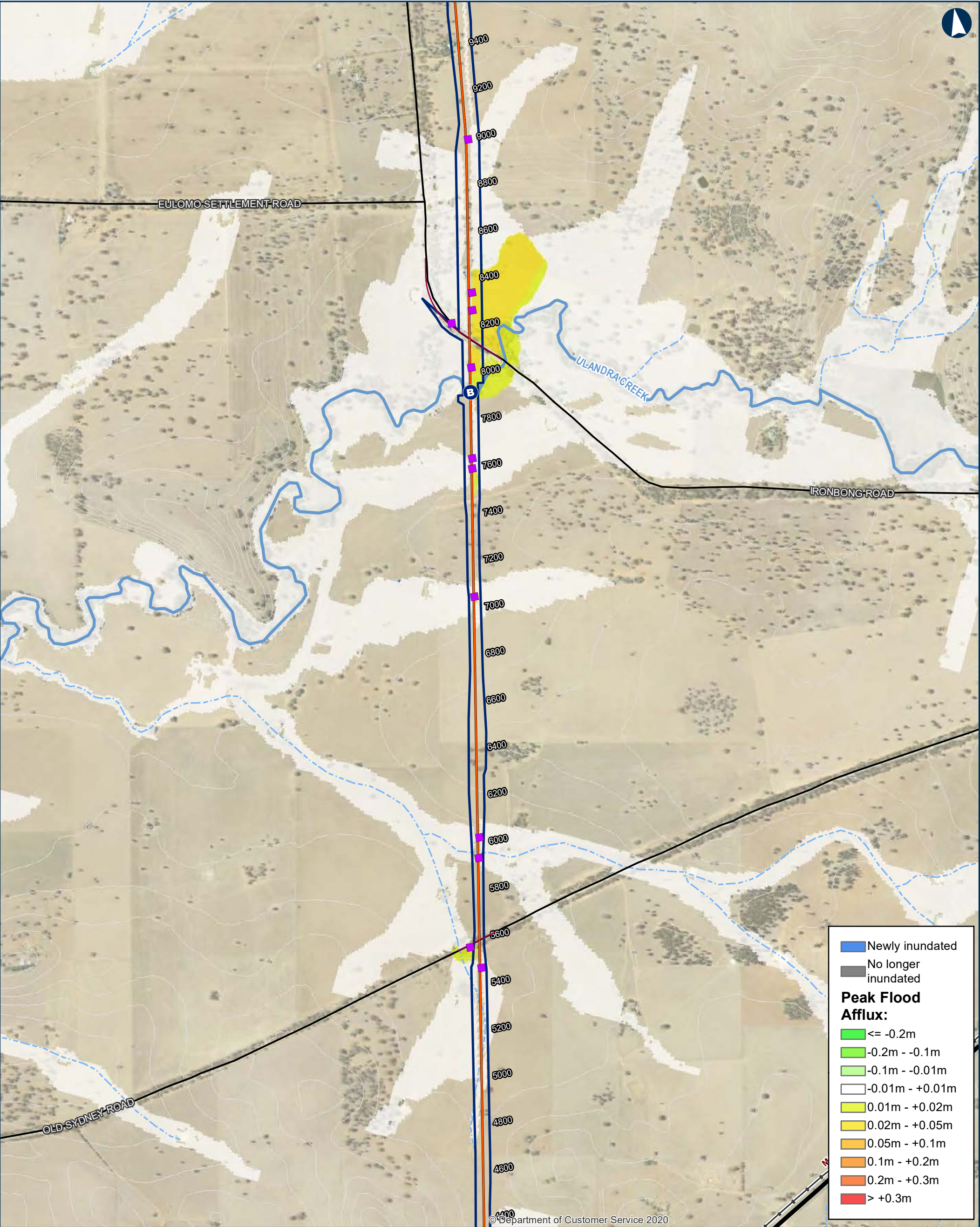
B Underbridge
 ■ Culvert
 — 5m Contours
 — Existing Rail
 - - - Minor watercourse (Strahler SO)
 — Major watercourse (Strahler SO)
 — Local road

— Sub-arterial road
 ■ Arterial road



INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL Change in Peak Water level for minimum 25% culvert blockage

0200400Metres

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Author: IRDJV

Data Sources: IRDJV, ARTC, LPI

Paper: A3

Scale: 1:15,000

Permanent acquisition boundary

40950

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

B

Overbridge

B

Underbridge

Culvert

5m Contours

Existing Rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

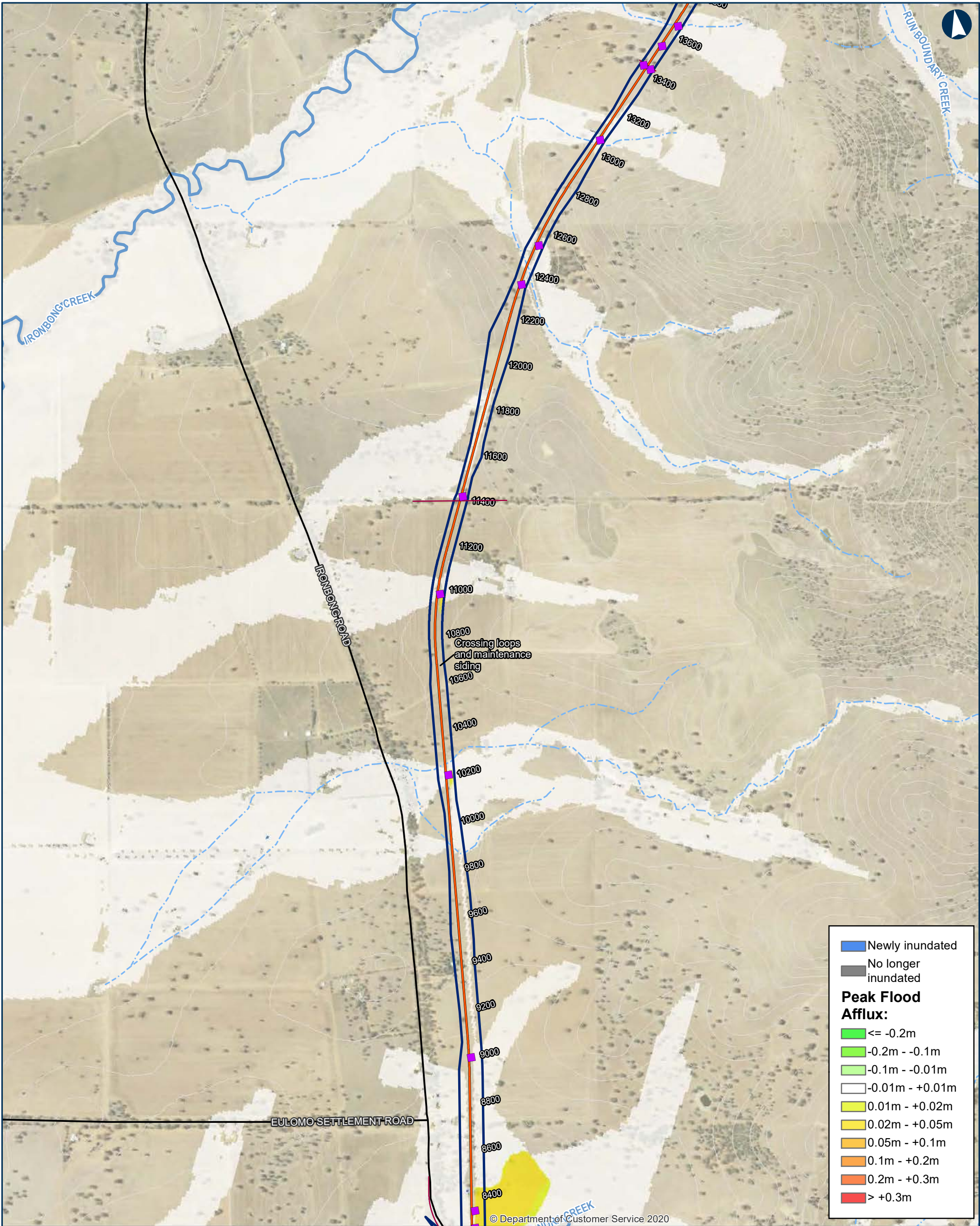
Sub-arterial road

Arterial road

INLAND RAIL ARTC

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U:\Projects\PS108286_Inland_Rail_Illab4_WIP\GIS\AWS\PS108286_I2S\Tasks\220_0122_HYD_HydrologyReport\June2023\Documents\Bblockage\220_0122_HYD_B3_Afflux_v6.mxd



ILLABO TO STOCKINBINAL Change in Peak Water level for minimum 25% culvert blockage

0 200 400 Metres

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Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Overbridge

Underbridge

Culvert

5m Contours

Existing Rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

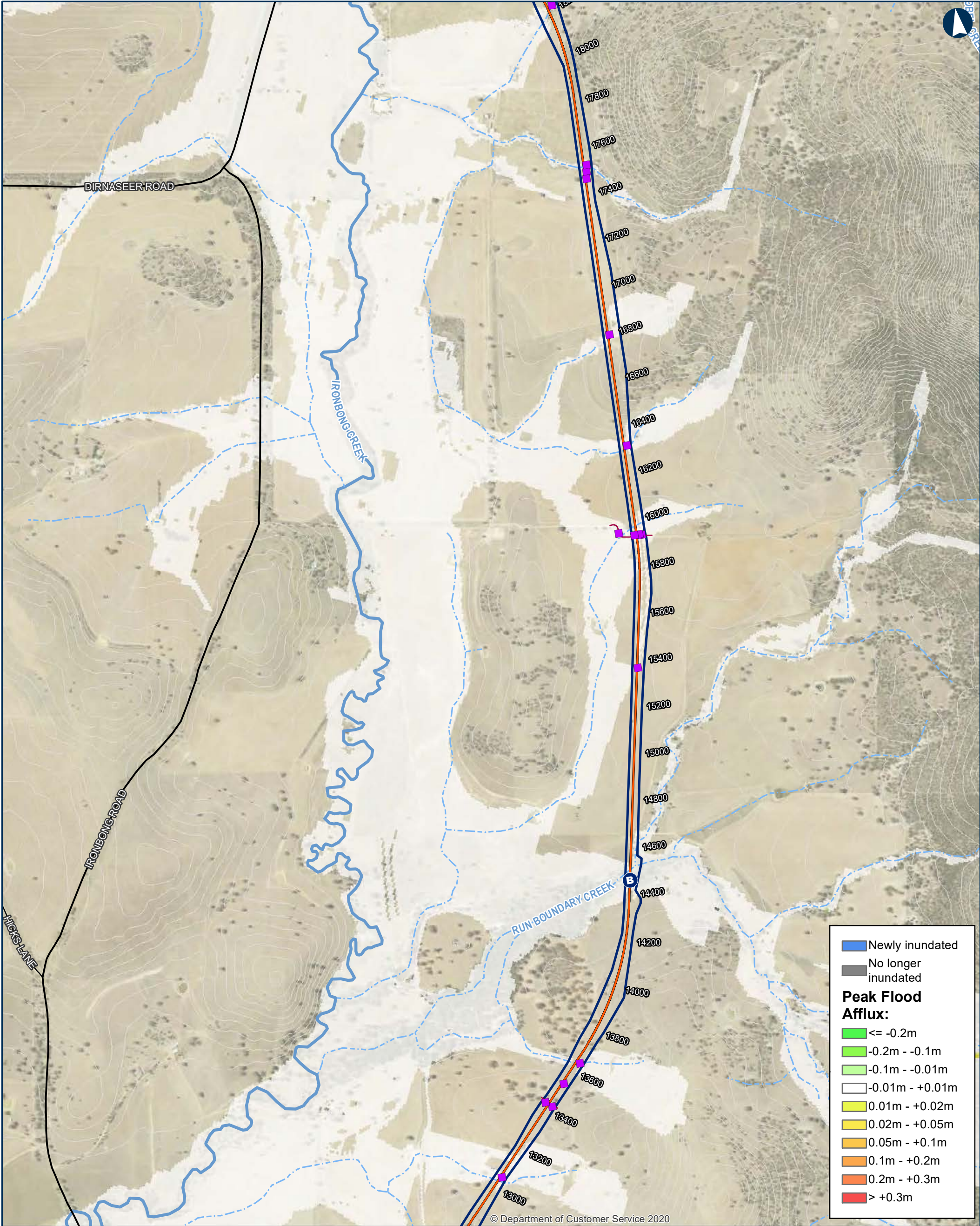
Local road

Sub-arterial road

Arterial road

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ILLABO TO STOCKINBINGAL Change in Peak Water level for minimum 25% culvert blockage

0 200 400 Metres

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Minor watercourse (Strahler SO 1-3)

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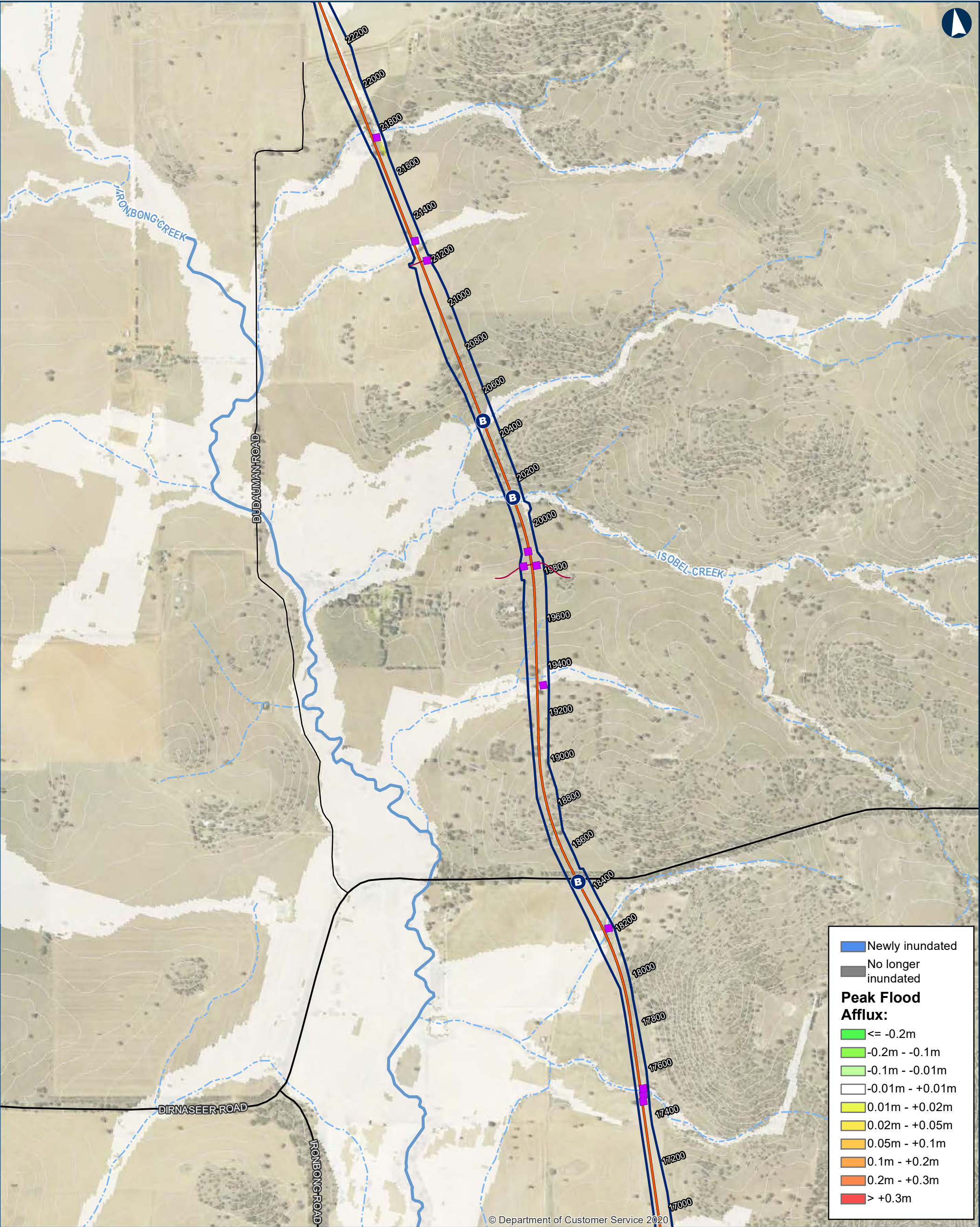
Local road

Sub-arterial road

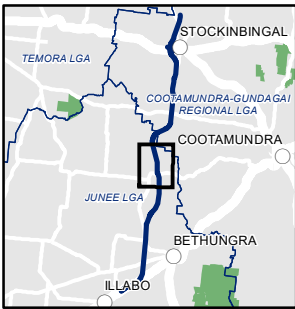
Arterial road

INLAND RAIL ARTC

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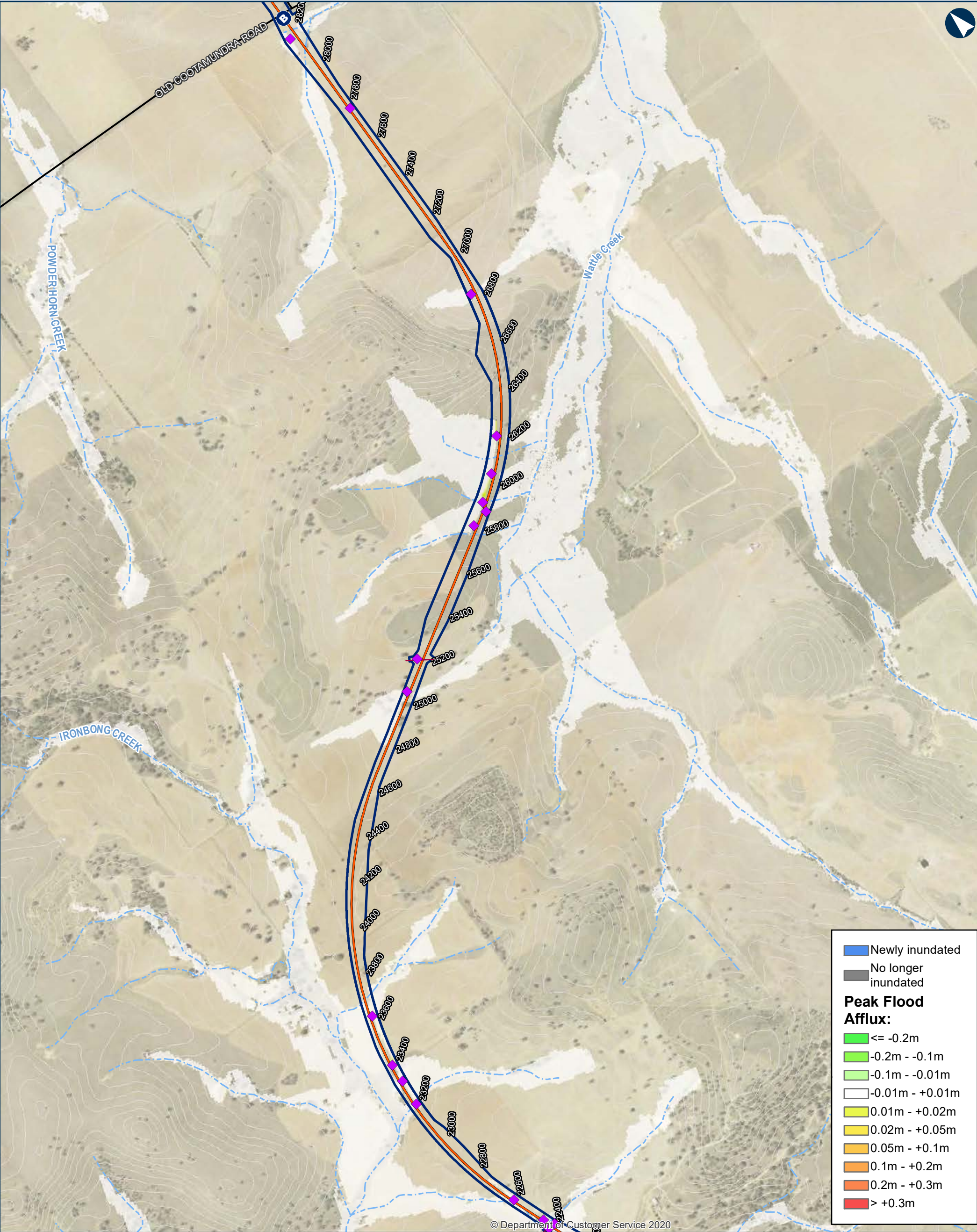


ILLABO TO STOCKINBINGAL Change in Peak Water level for minimum 25% culvert blockage



INLAND RAIL **ARTC**

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ILLABO TO STOCKINBINGAL Change in Peak Water level for minimum 25% culvert blockage

0200400Metres

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Data Sources: IRDJV, ARTC, LPI

Paper: A3
Scale: 1:15,000

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Overbridge

B

Underbridge

■

Culvert

5m Contours

Existing Rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

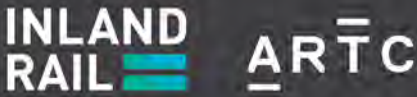
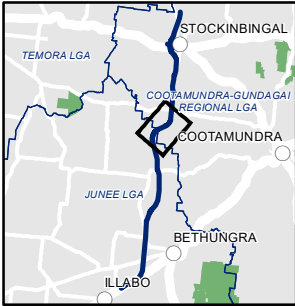
Local road

—

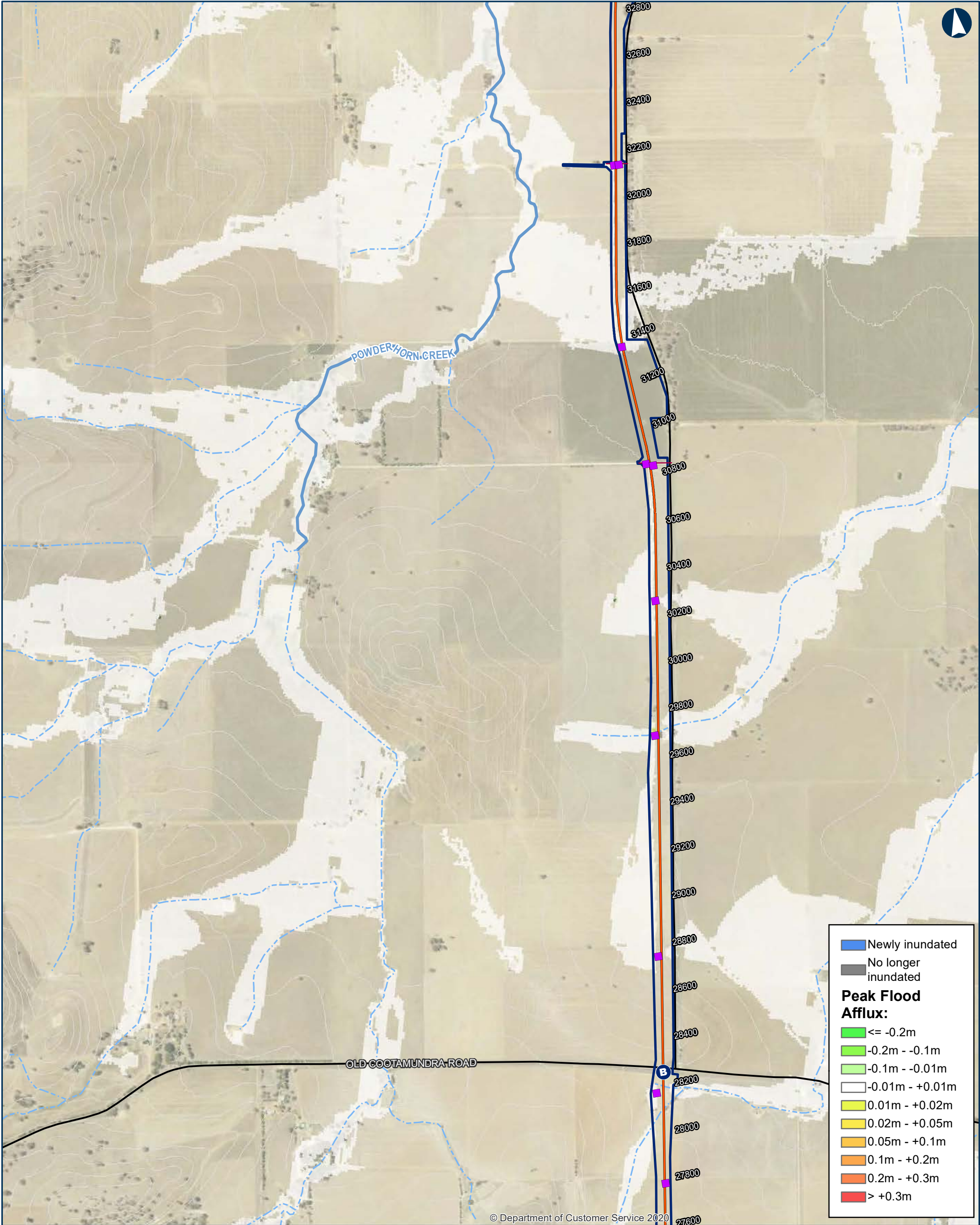
Sub-arterial road

—

Arterial road



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Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Overbridge

B Underbridge

Culvert

5m Contours

Existing Rail

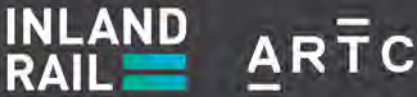
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

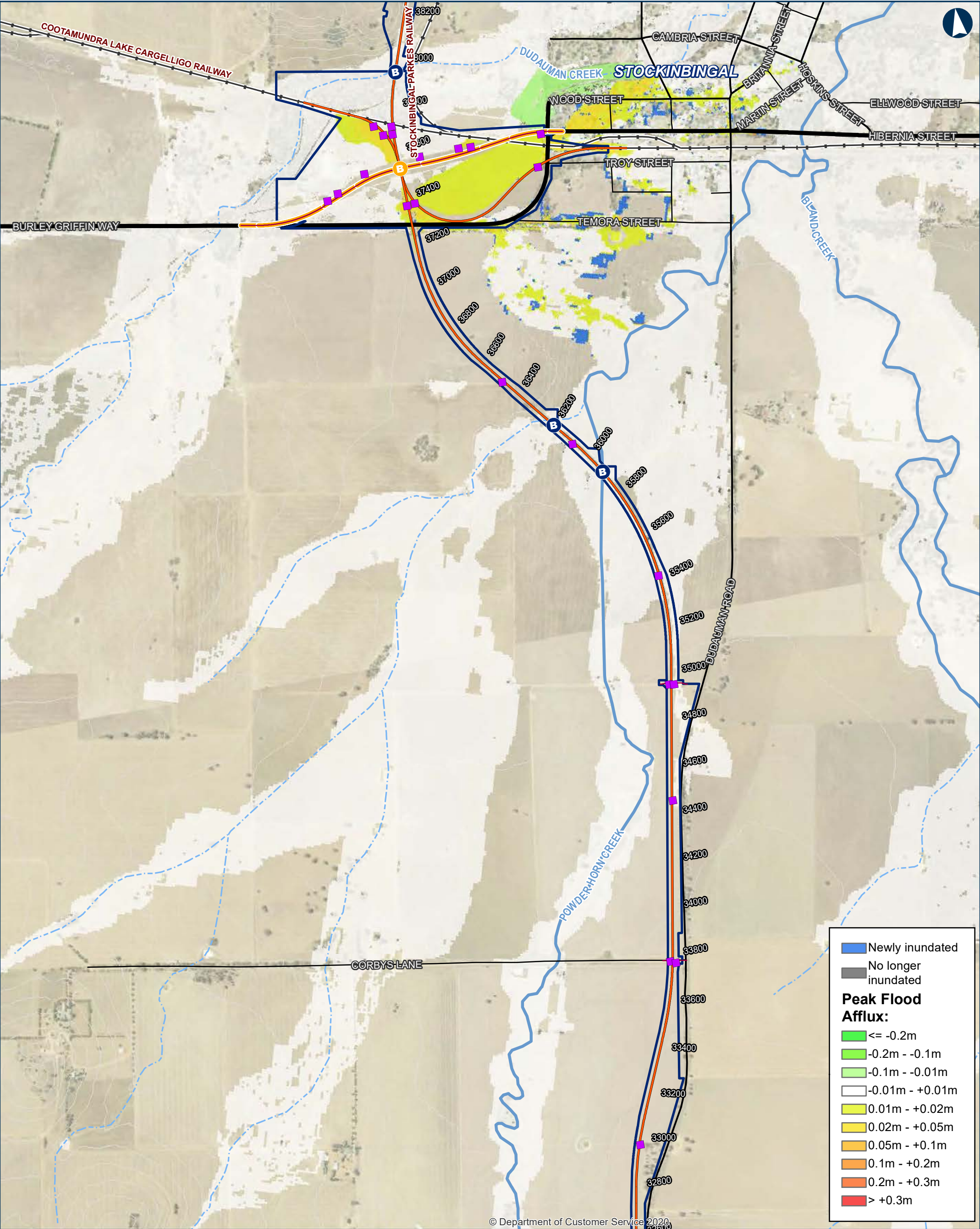
Local road

Sub-arterial road

Arterial road



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ILLABO TO STOCKINBINGAL Change in Peak Water level for minimum 25% culvert blockage

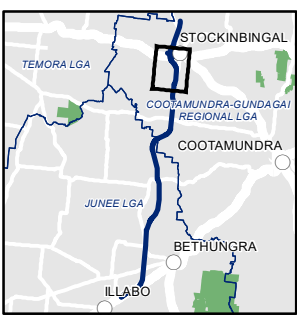
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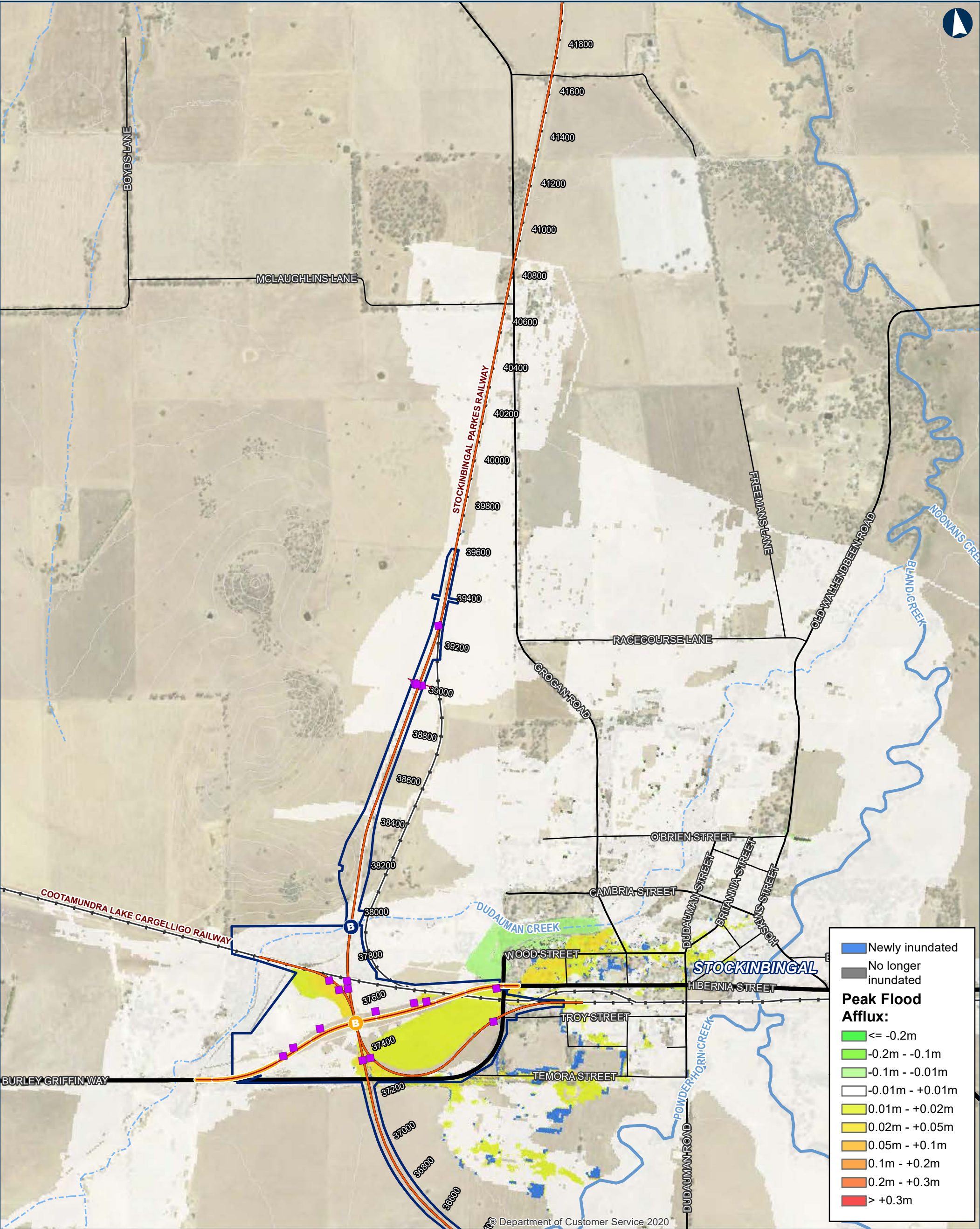
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- Underbridge
- Culvert
- 5m Contours
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ILLABO TO STOCKINBINGAL Change in Peak Water level for minimum 25% culvert blockage

0 200 400 Metres

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40950

New track/track upgrade

Burley Griffin Way Realignment

Overbridge

Underbridge

Culvert

5m Contours

Existing Rail

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Major watercourse (Strahler SO 4-6)

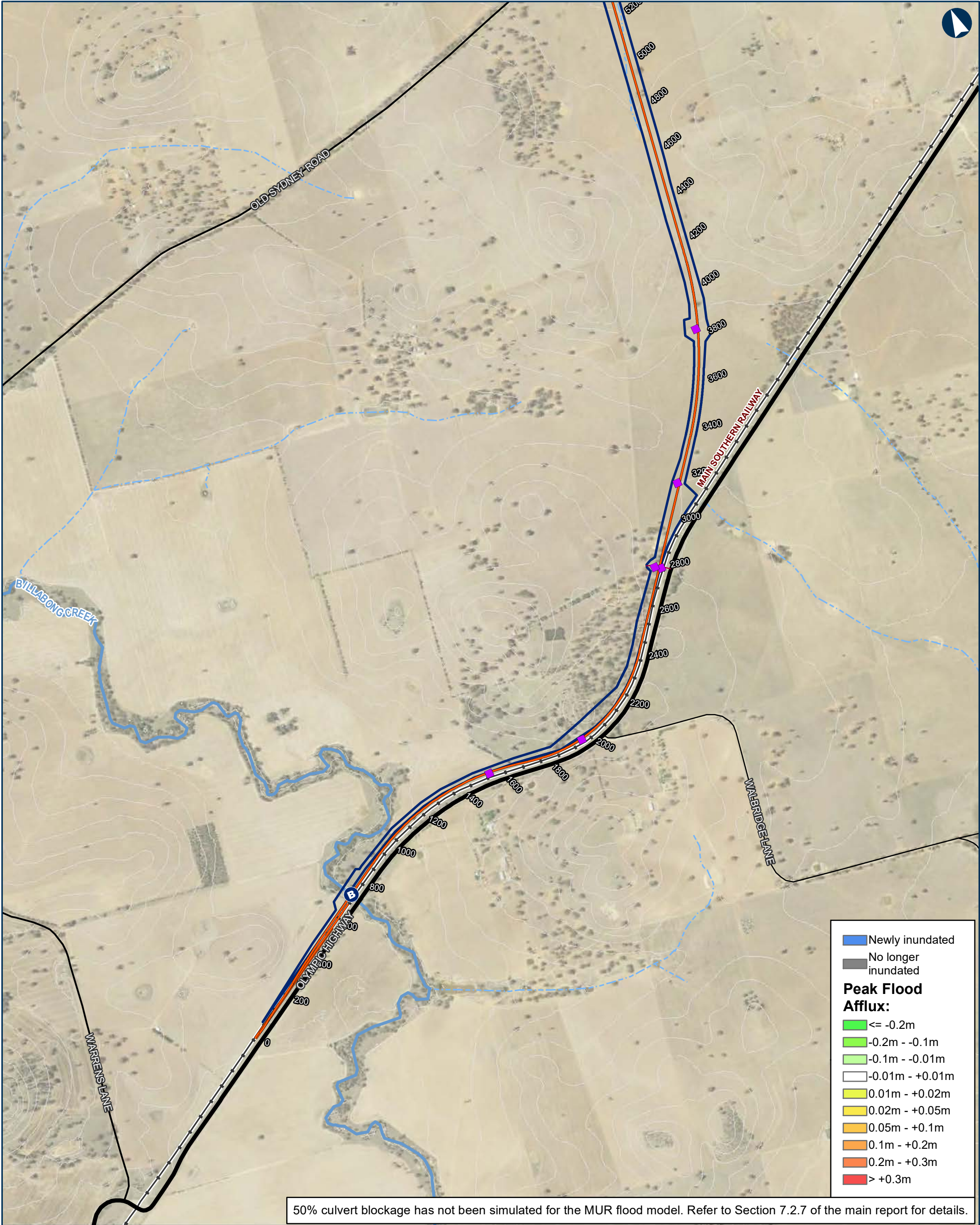
Local road

Sub-arterial road

Arterial road

INLAND RAIL = ARTC

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ILLABO TO STOCKINBINGAL Change in Peak Water level for 50% blockage

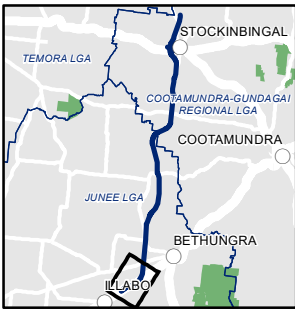
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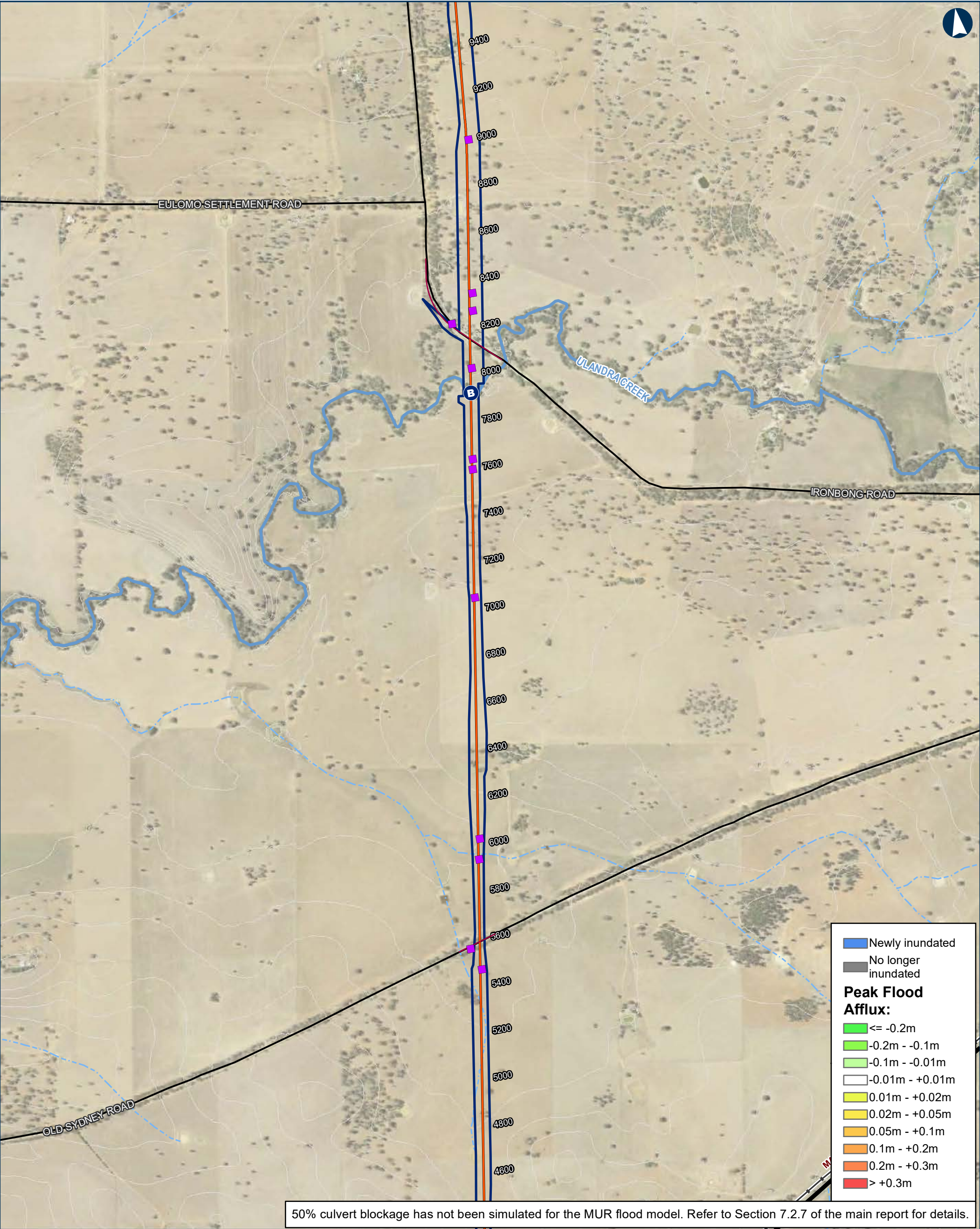
Date: 20/10/2023 Paper: A3
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- Permanent acquisition boundary
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- Underbridge
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0200400Metres

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Author: IRDJV

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Permanent acquisition boundary

40950

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

B

Overbridge

B

Underbridge

Culvert

5m Contours

Existing Rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

Sub-arterial road

Arterial road

ILLABO TO STOCKINBINGAL

Change in Peak Water level for 50% blockage

Map 2 of 9

ILLABO

BETHUNGRA

COOTAMUNDRA

COOTAMUNDRA-GUNDAGUI REGIONAL LGA

STOCKINBINGAL

TEMORA LGA

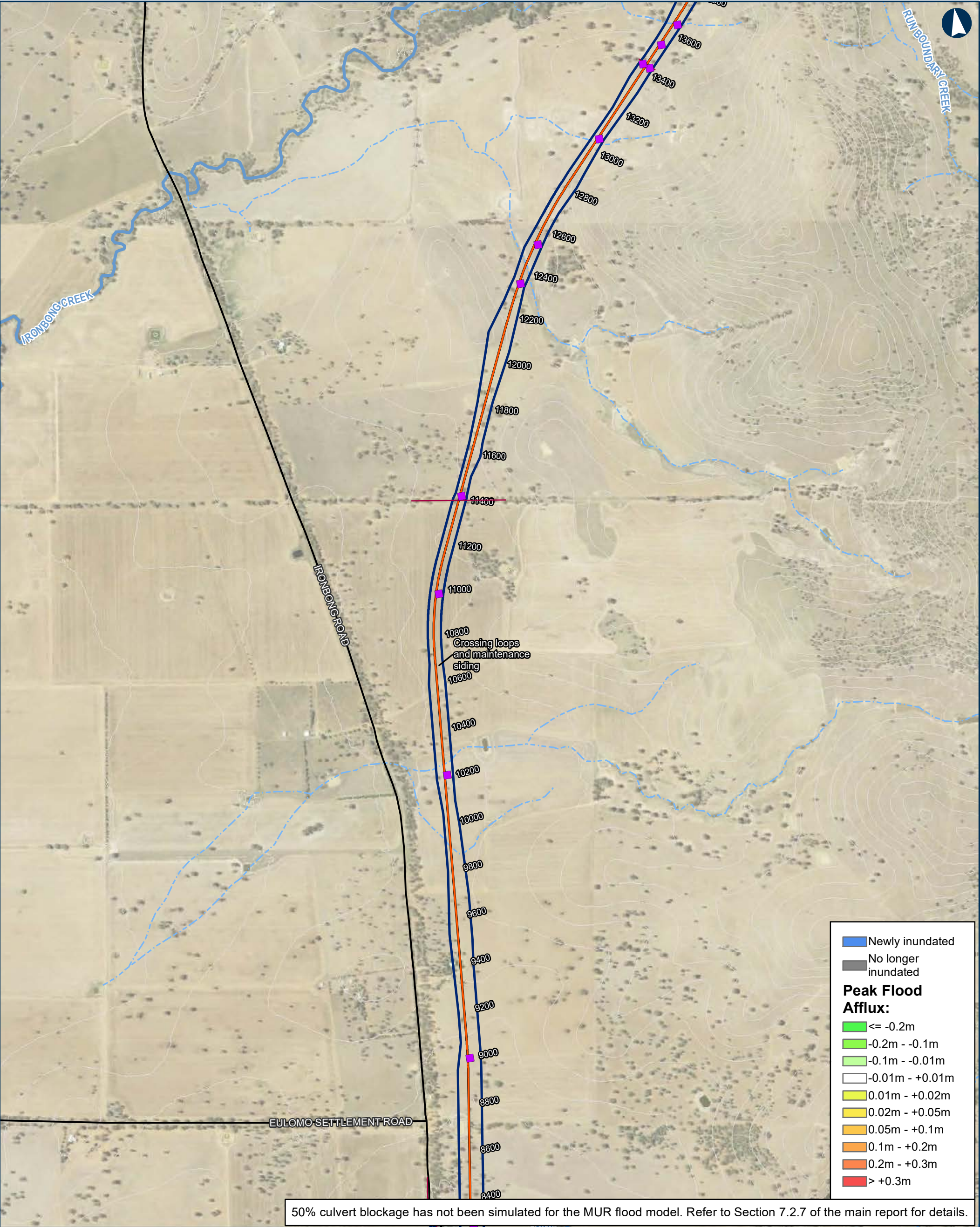
JUNEE LGA

INLAND RAIL

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ILLABO TO STOCKINBINGAL Change in Peak Water level for 50% blockage

0200400

Metres

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Permanent acquisition boundary

40950

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

B

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B

Underbridge

Culvert

5m Contours

Existing Rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

Sub-arterial road

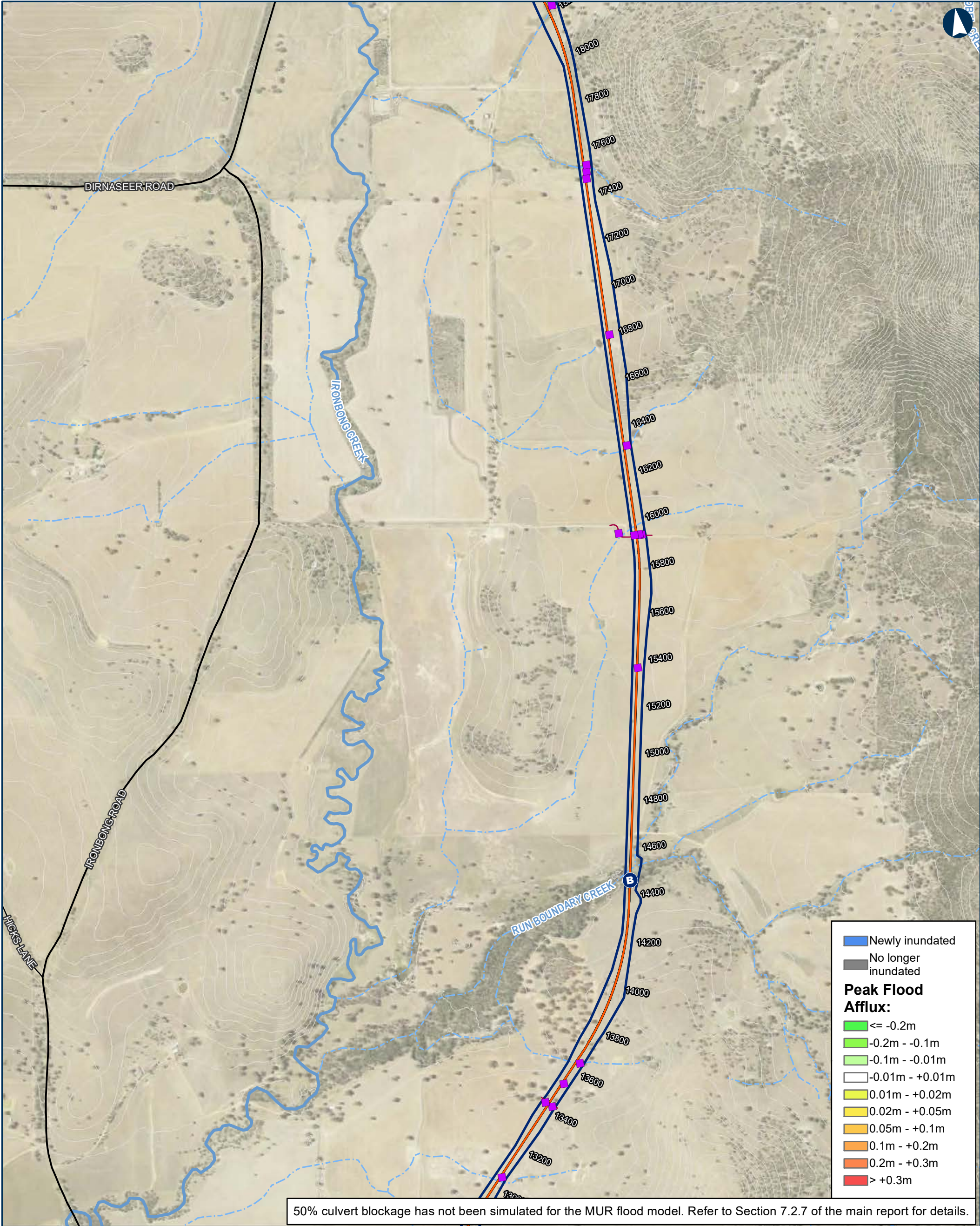
Arterial road

INLAND RAIL

ARTC

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ILLABO TO STOCKINBINGAL Change in Peak Water level for 50% blockage

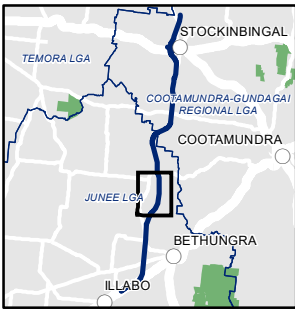
0 200 400 Metres

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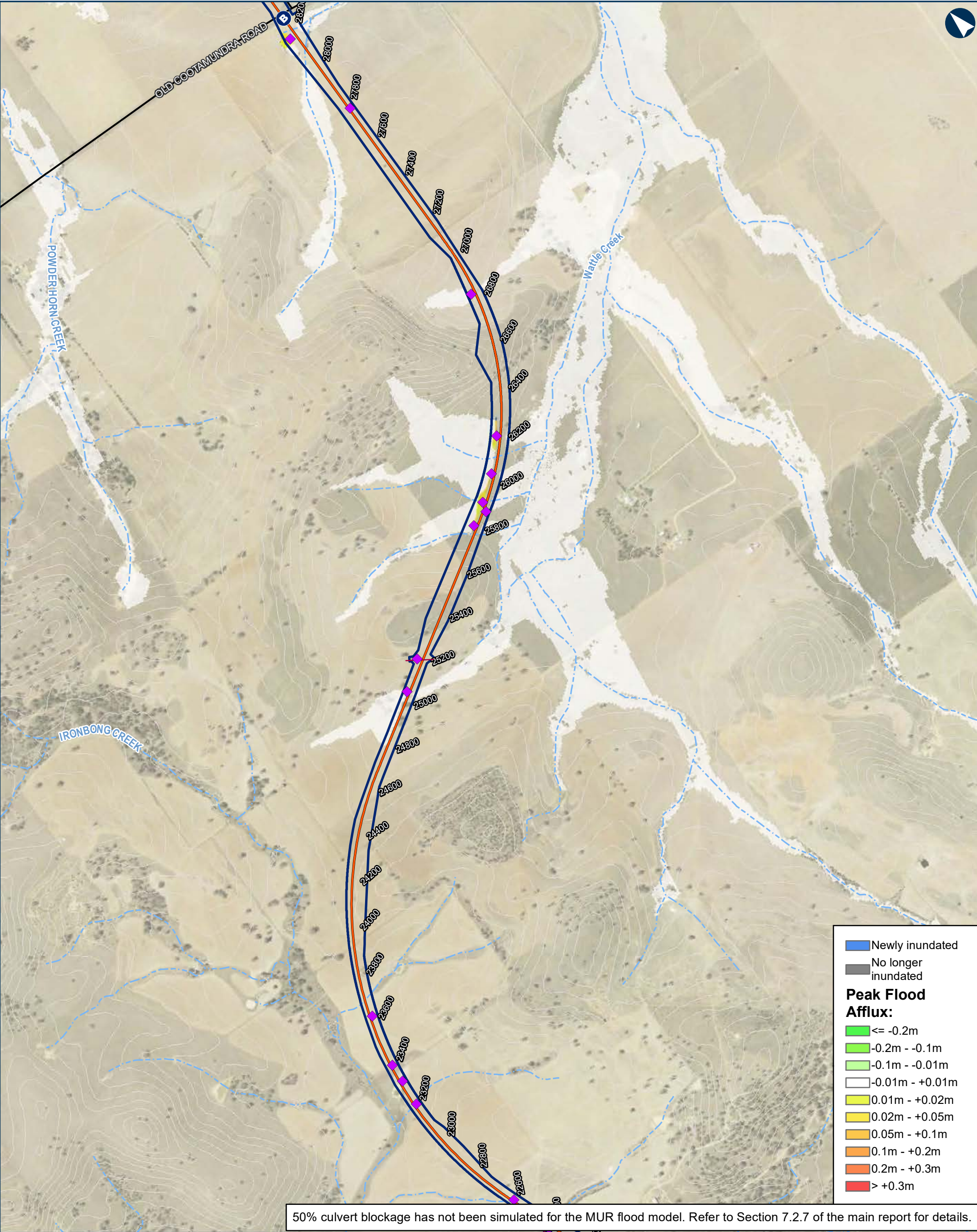
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- Permanent acquisition boundary
- Chainage (distance in metres from southern limit of the proposal) 40950
- New track/track upgrade
- Overbridge
- Underbridge
- Culvert
- 5m Contours
- Existing Rail
- Minor watercourse (Strahler SO 1-3)
- Major watercourse (Strahler SO 4-6)
- Local road
- Sub-arterial road
- Arterial road



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ILLABO TO STOCKINBINGAL Change in Peak Water level for 50% blockage

0200400

Metres

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A3

Author: IRDJV

Scale: 1:15,000

Data Sources: IRDJV, ARTC, LPI

Permanent acquisition boundary

40950

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

B

Overbridge

B

Underbridge

Culvert

5m Contours

Existing Rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

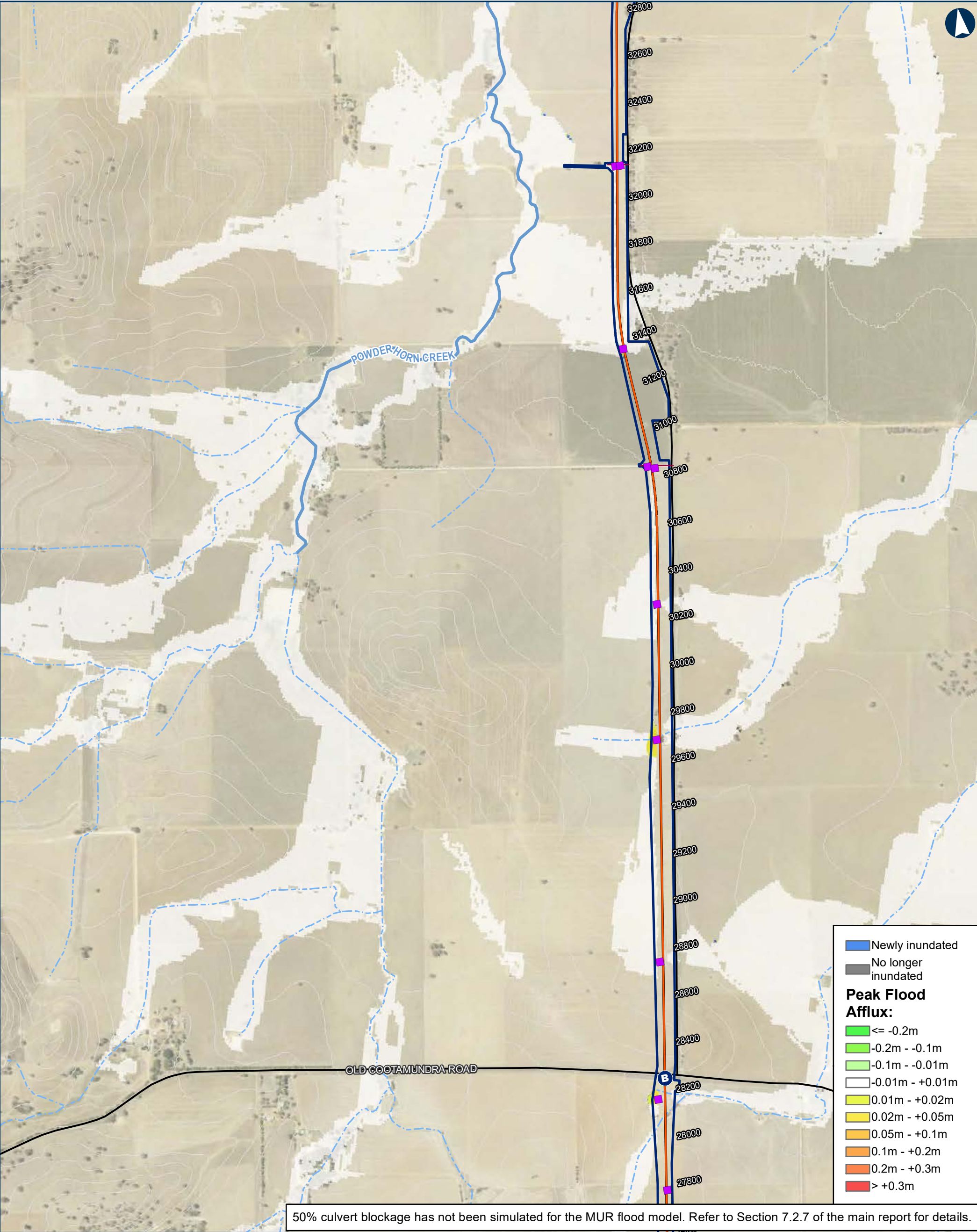
Local road

Sub-arterial road

Arterial road

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U:\Projects\PS108286_Inland_Rail_Illab4_WIP\GIS\AWS\PS108286_I2S\Tasks\220_0122_HYD_HydrologyReport\June2023\Documents\Bkage\220_0122_HYD_B4_Afflux_v1.mxd



ILLABO TO STOCKINBINGAL Change in Peak Water level for 50% blockage Map 7 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Overbridge

Underbridge

Culvert

5m Contours

Existing Rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

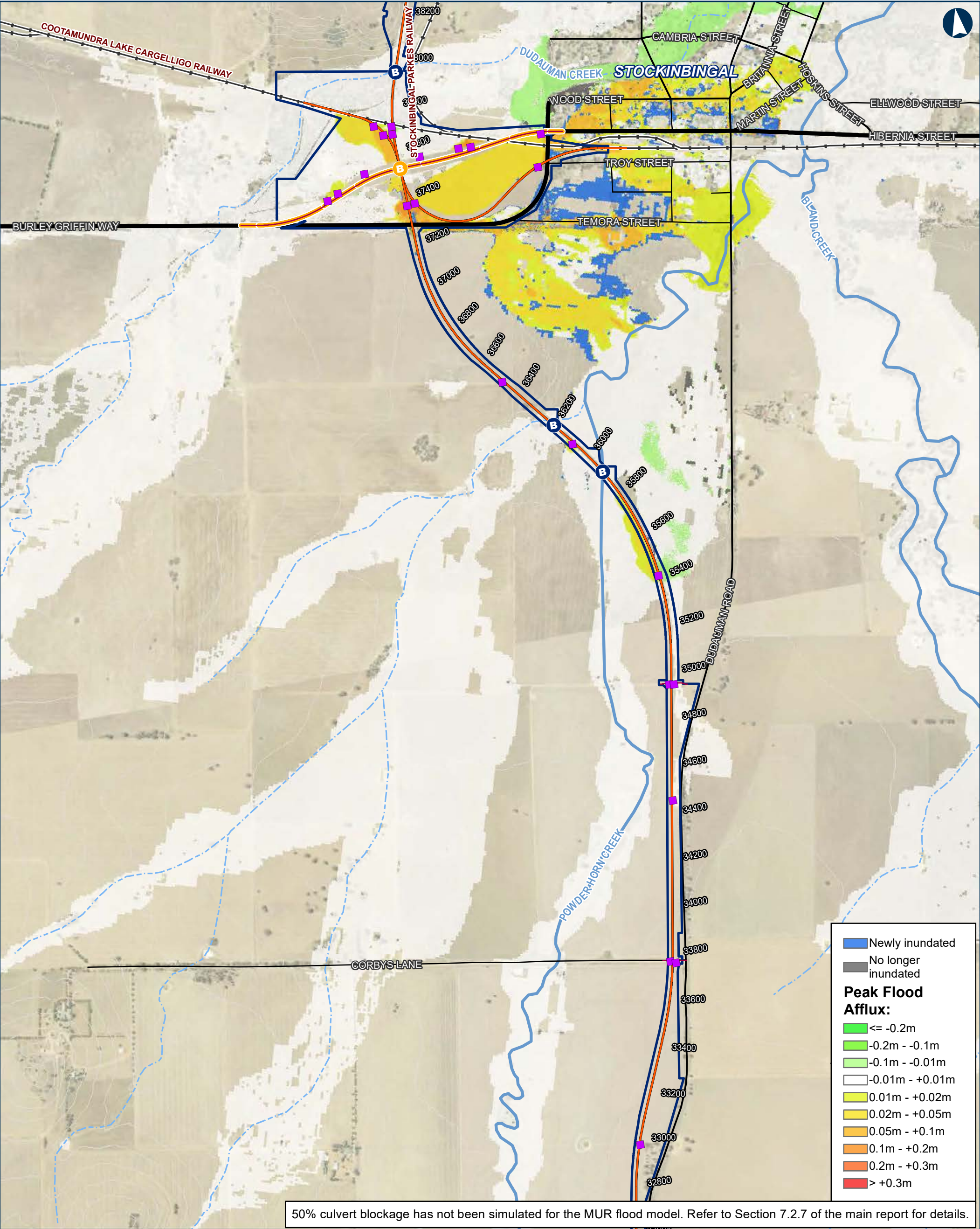
Sub-arterial road

Arterial road

INLAND RAIL

ARTC

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50% culvert blockage has not been simulated for the MUR flood model. Refer to Section 7.2.7 of the main report for details.

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 20/10/2023

Paper: A3

Author: IRDJV

Scale: 1:15,000

Data Sources: IRDJV, ARTC, LPI

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Burley Griffin Way Realignment

Overbridge

Underbridge

Culvert

5m Contours

Existing Rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

Sub-arterial road

Arterial road

STOCKINBINGAL

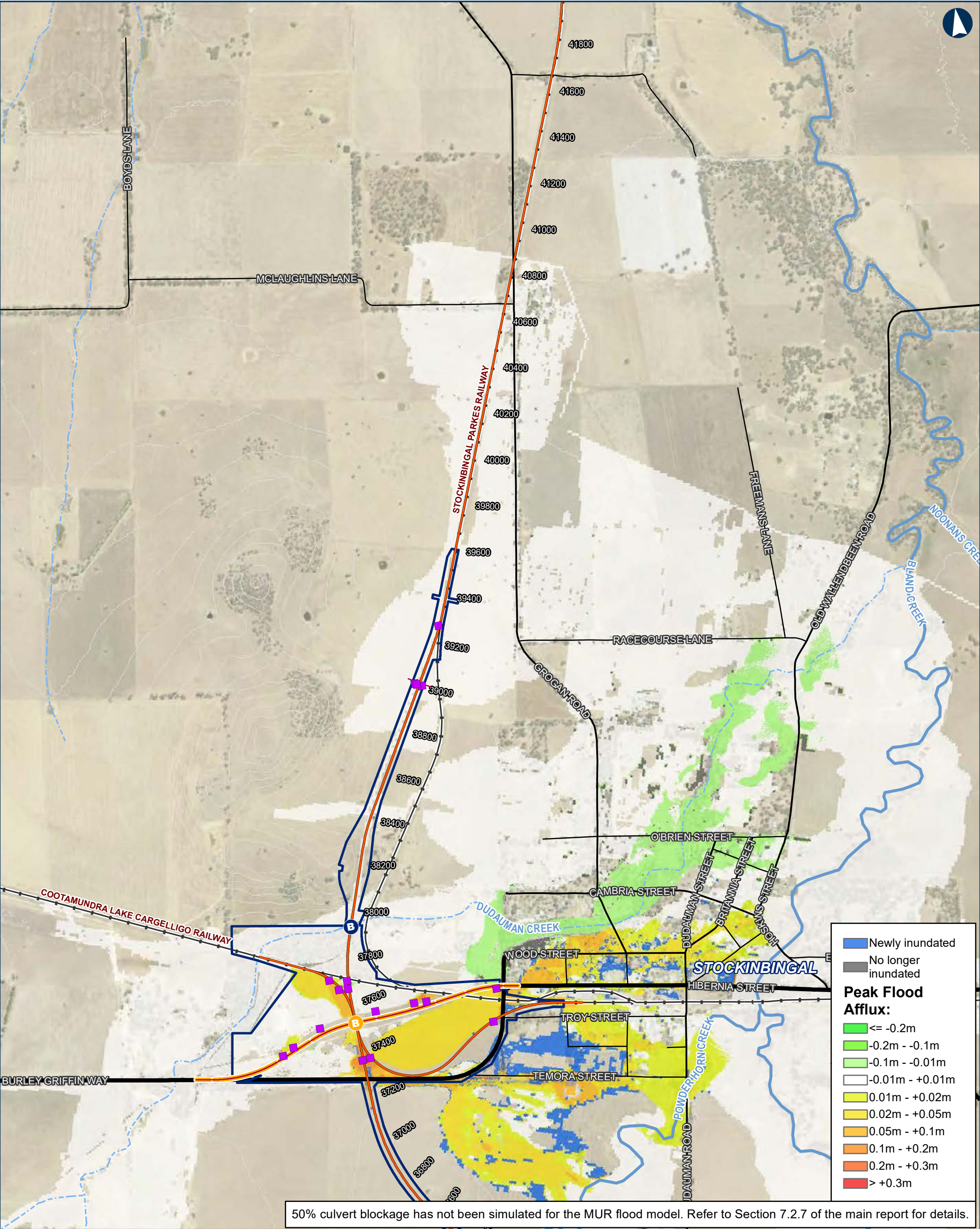
ILLABO

INLAND RAIL

ARTC

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

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50% culvert blockage has not been simulated for the MUR flood model. Refer to Section 7.2.7 of the main report for details.

ILLABO TO STOCKINBINGAL Change in Peak Water level for 50% blockage

Map 9 of 9

0 200 400
Metres

Coordinate System: GDA 1994 MGA Zone 55

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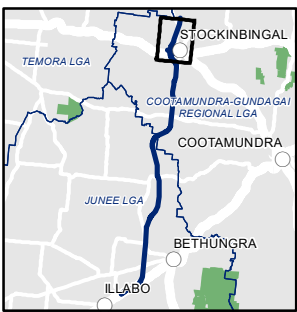
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