

- Legend**
- Existing Rail
  - Revised Rail Alignment
  - Preliminary CID Boundary
  - 10m Contours**
  - Intermediate
  - Index



**Southern Freight Rail Corridor Study  
Revised Assessment Report**

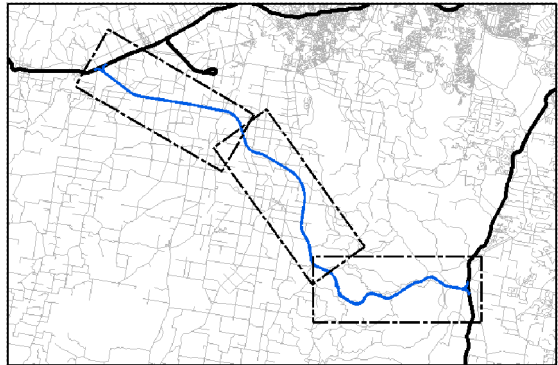
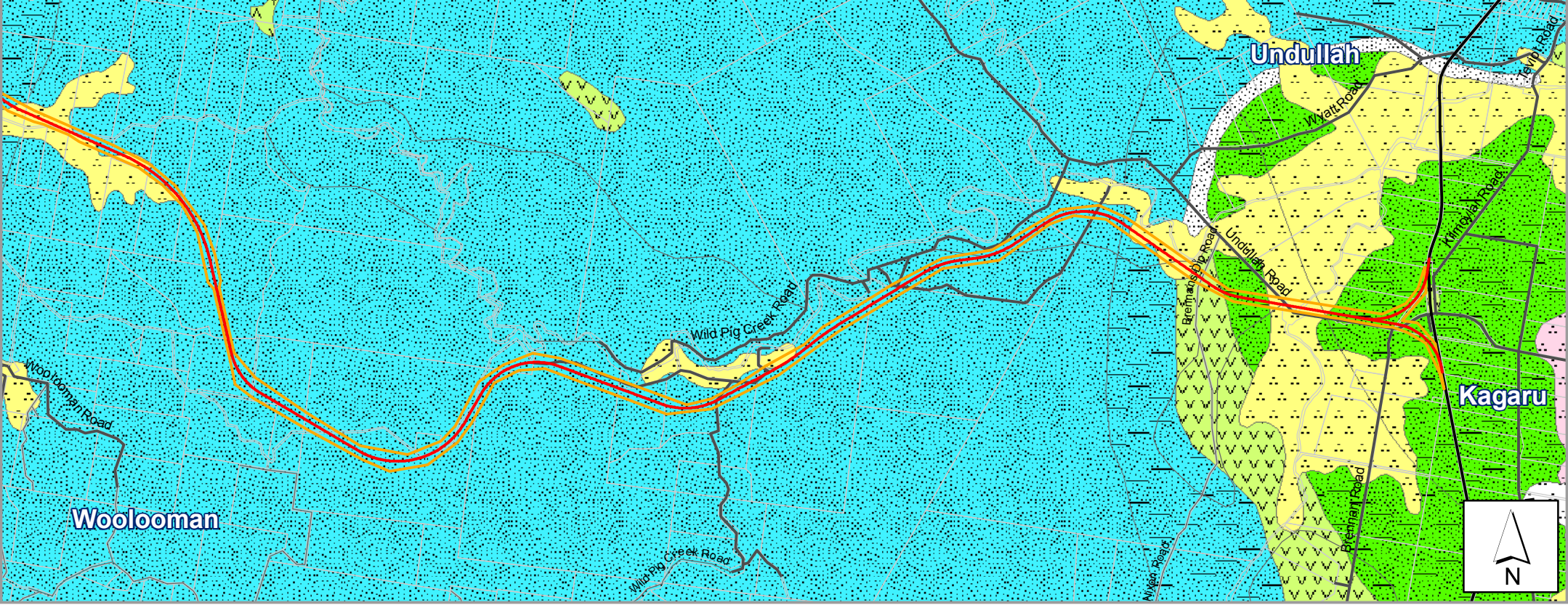
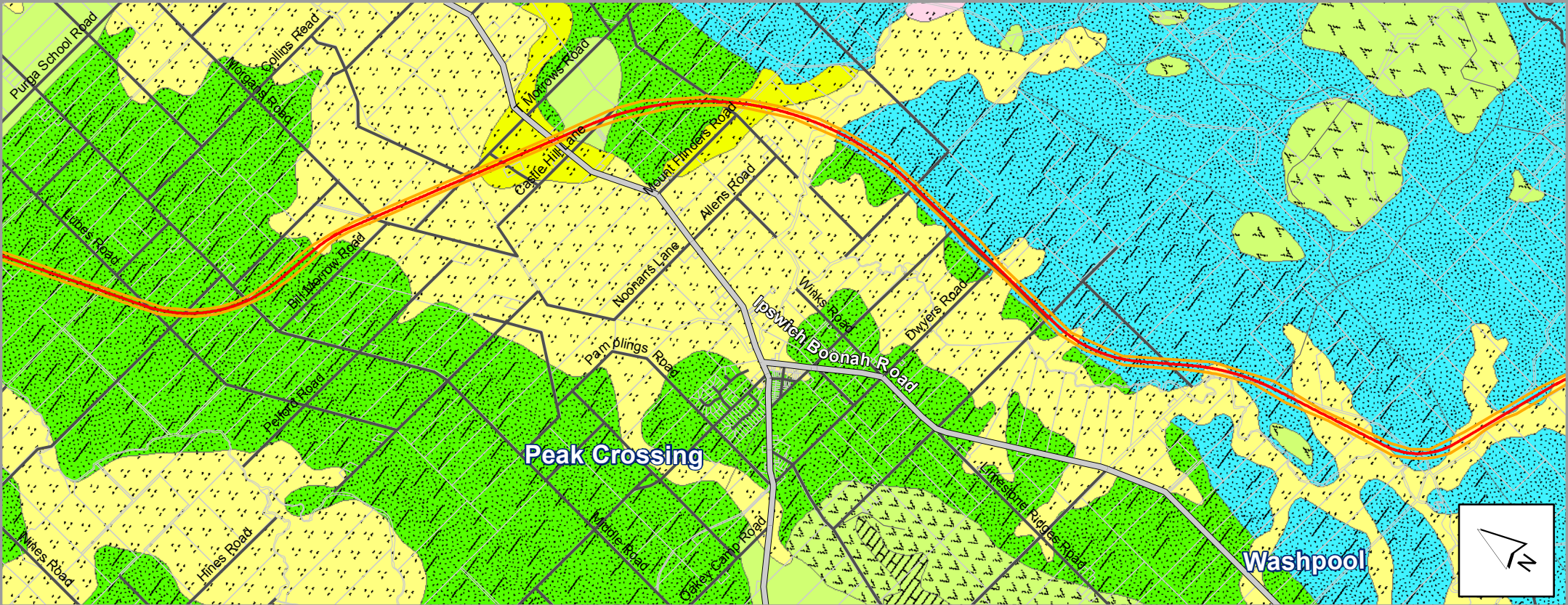
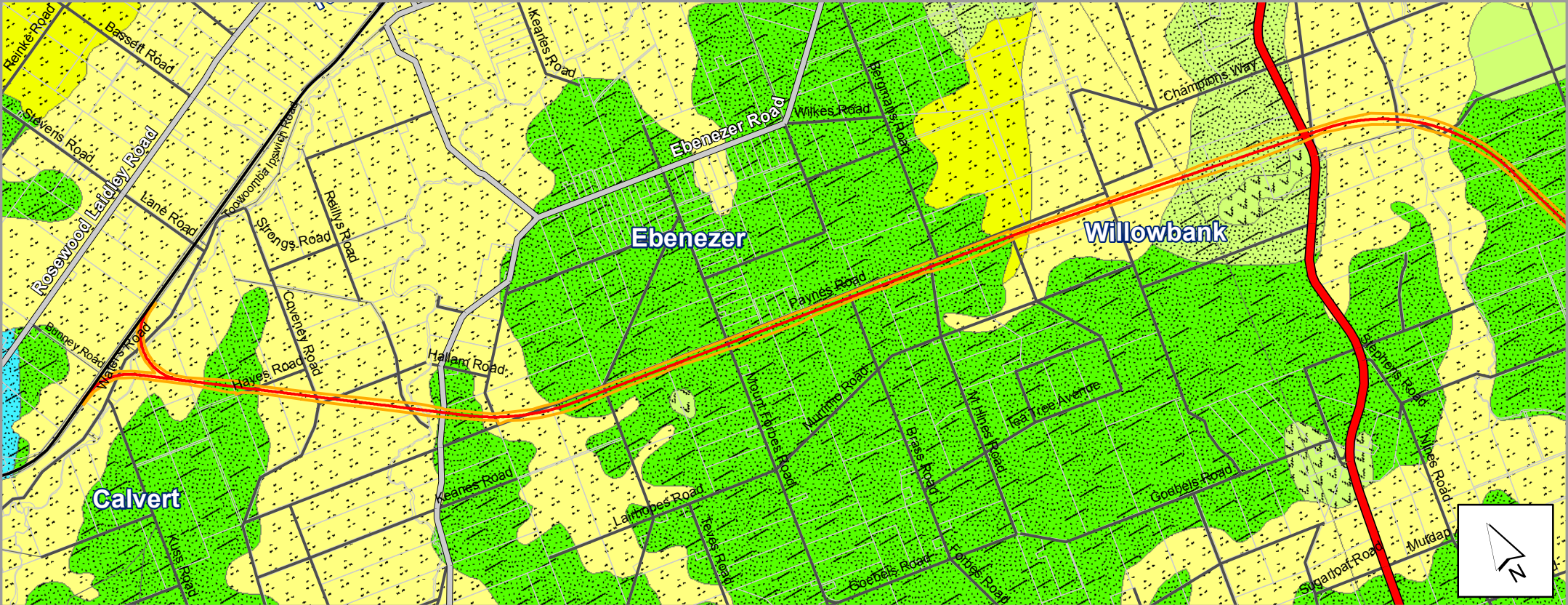
**Topography**



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A3 size Map 1.1

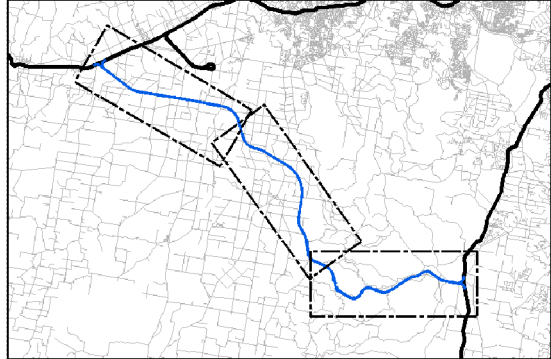
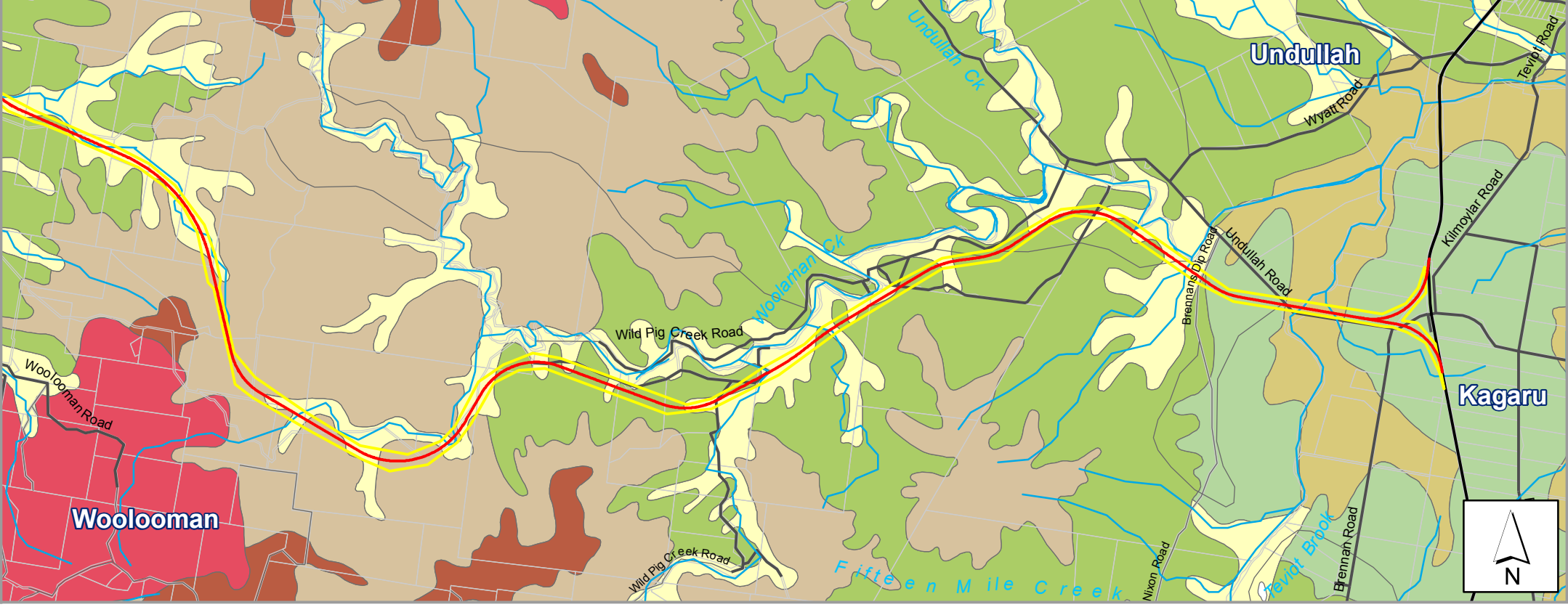
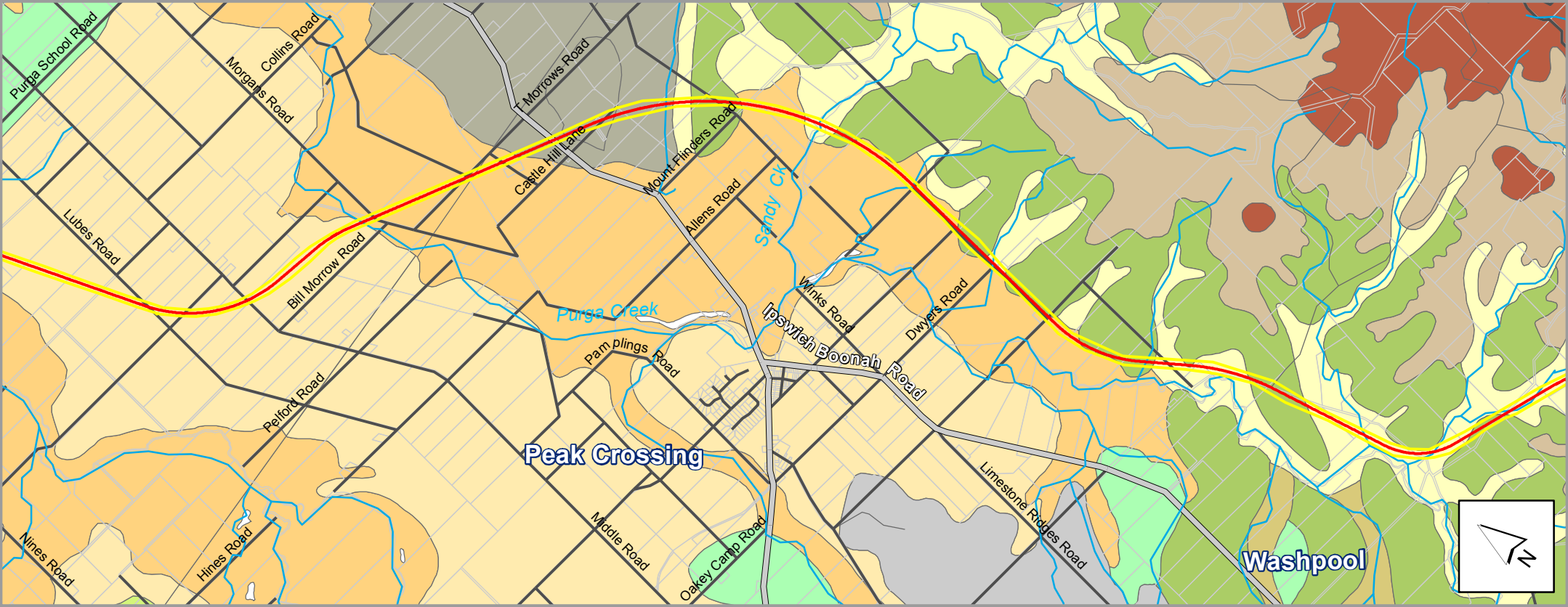
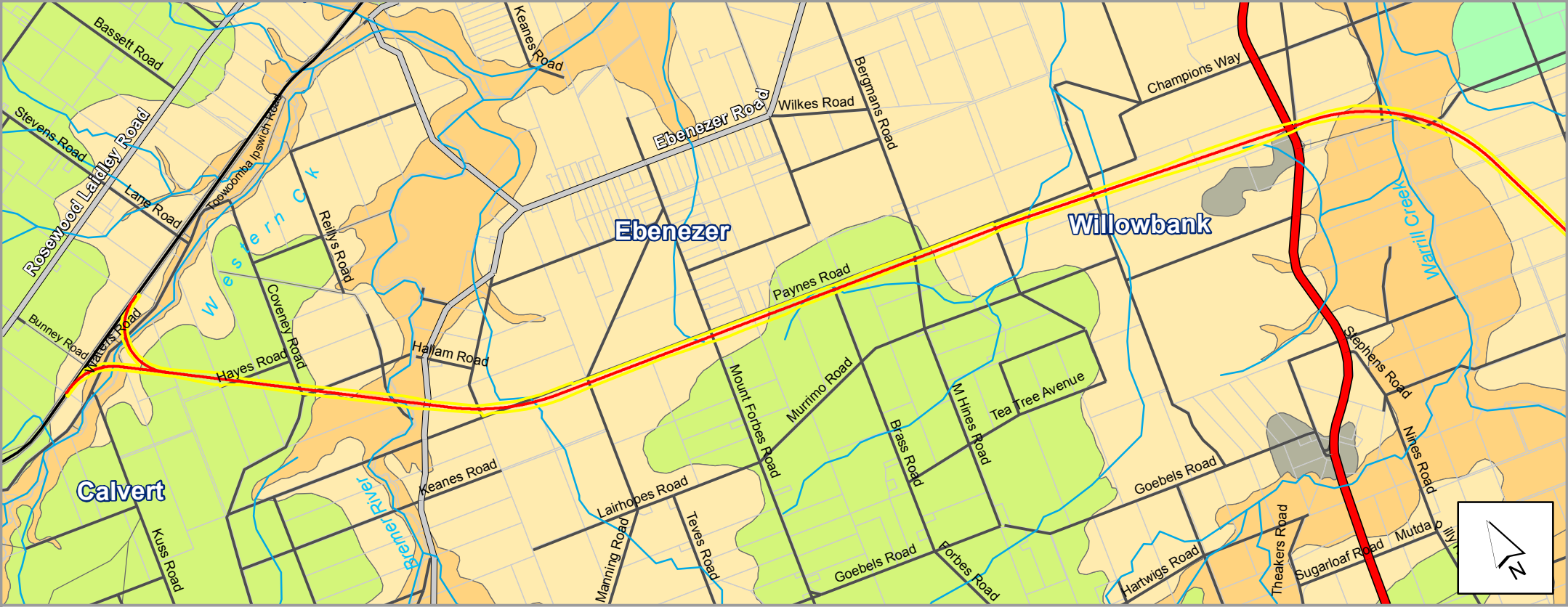




**Legend**

Existing Rail	Lithology
Revised Rail Alignment	ALLUVIUM
Preliminary CID Boundary	ARENITE-MUDROCK
Age	BASALT
HOLOCENE	
QUATERNARY	
TERTIARY	
TERTIARY - QUATERNARY	
MIDDLE JURASSIC	
EARLY JURASSIC	





Data sources: All spatial data is subject to Copyright  
(c) MapData Sciences, PSMA, DNRW, EPA, Local Councils

**Legend**

- Revised Rail Alignment
- Existing Rail
- Preliminary CID Boundary

**Soils**

- Prairie soils, black earths and weissenbodens
- Grey clays and prairie soils
- Strongly texture-contrasted Purga soil
- Solodics and prairie soils
- Soloths and prairie soils
- Rendzinas and prairie soils
- Soloth, solodic and prairie soils

- Solodized solonetz, solodics and lithosols
- Red and yellow podzolics, lithosols and red earths
- Lithosols, prairie soils, black earths and solodics
- Lithosols and solodics
- Red and yellow podzolics, lithosols and solodics
- Soloths, solodics and lithosols
- Alluvial, minimal prairie and solodic soils
- Alluvial and prairie soils, black earths, weissenbodens, grey clays and soloths
- Prairie soils, soloths, acid grey clays, red and yellow podzolics and lithosols
- Prairie soils, solodics and soloths
- Soloths, red and yellow podzolics and humus podzols



Southern Freight Rail Corridor Study  
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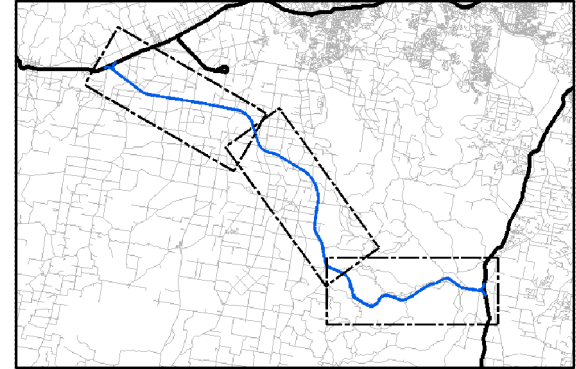
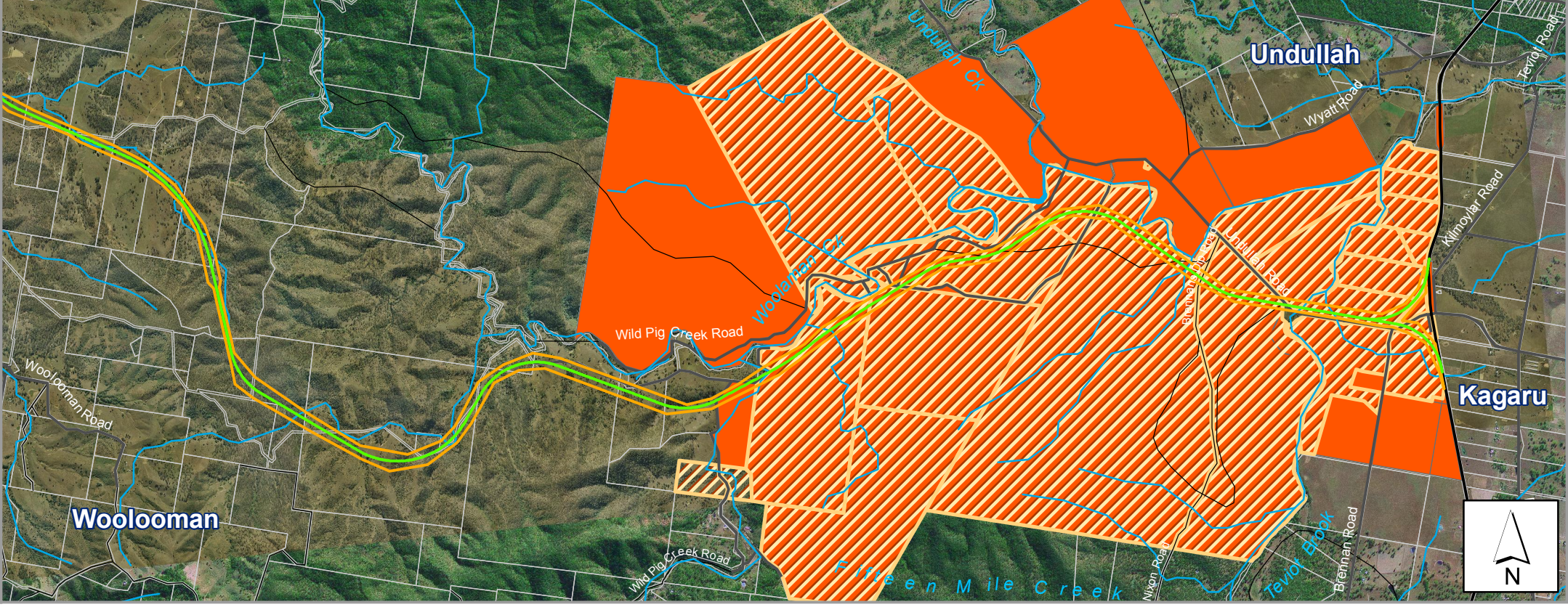
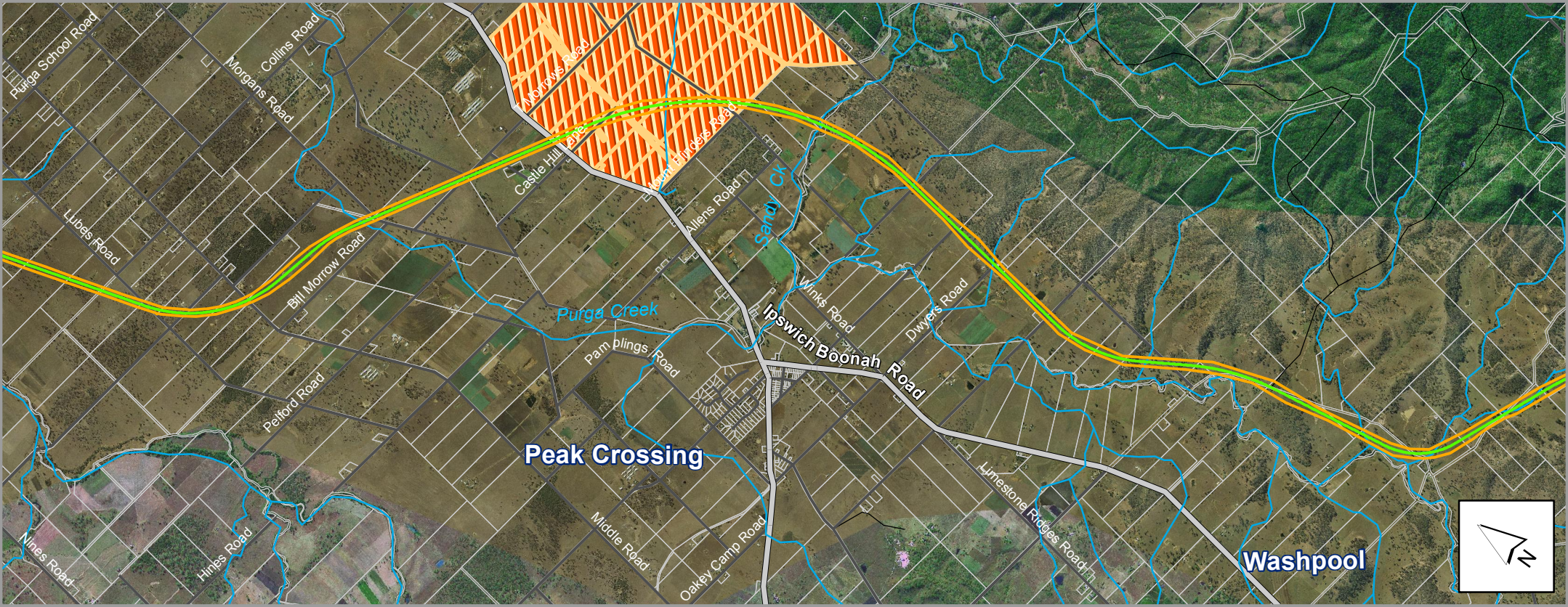
Soils



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A3 size Map 1.3





- Legend**
- Revised Rail Alignment
  - Preliminary CID Boundary
  - Existing Rail
  - Parcels subject to AMA
  - Parcels with UXO Potential



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**Southern Freight Rail Corridor Study  
Revised Assessment Report**

**Unexploded Ordnance Potential**

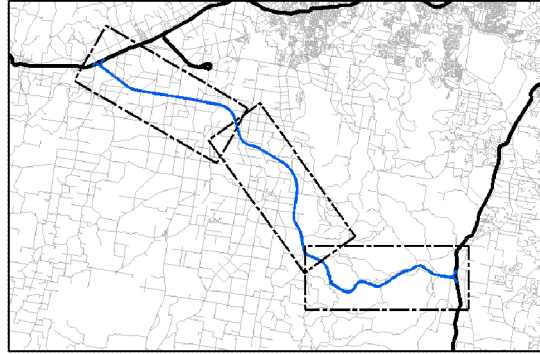
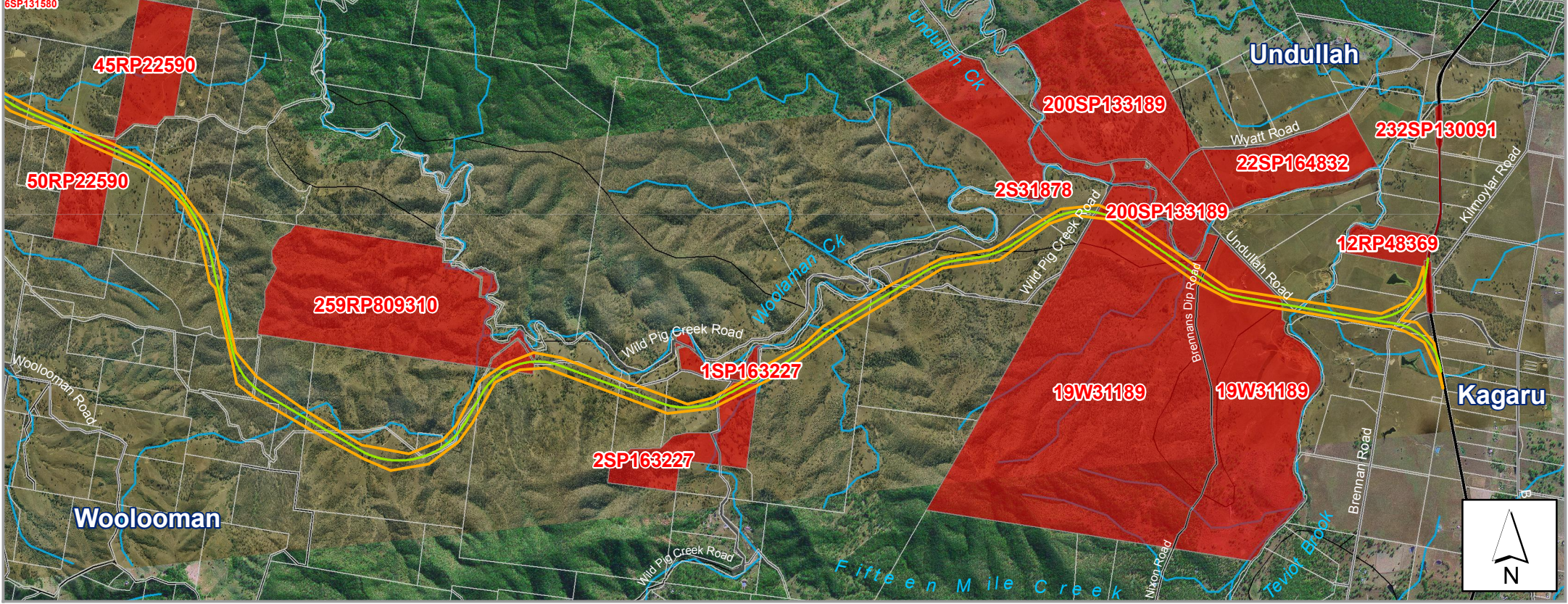
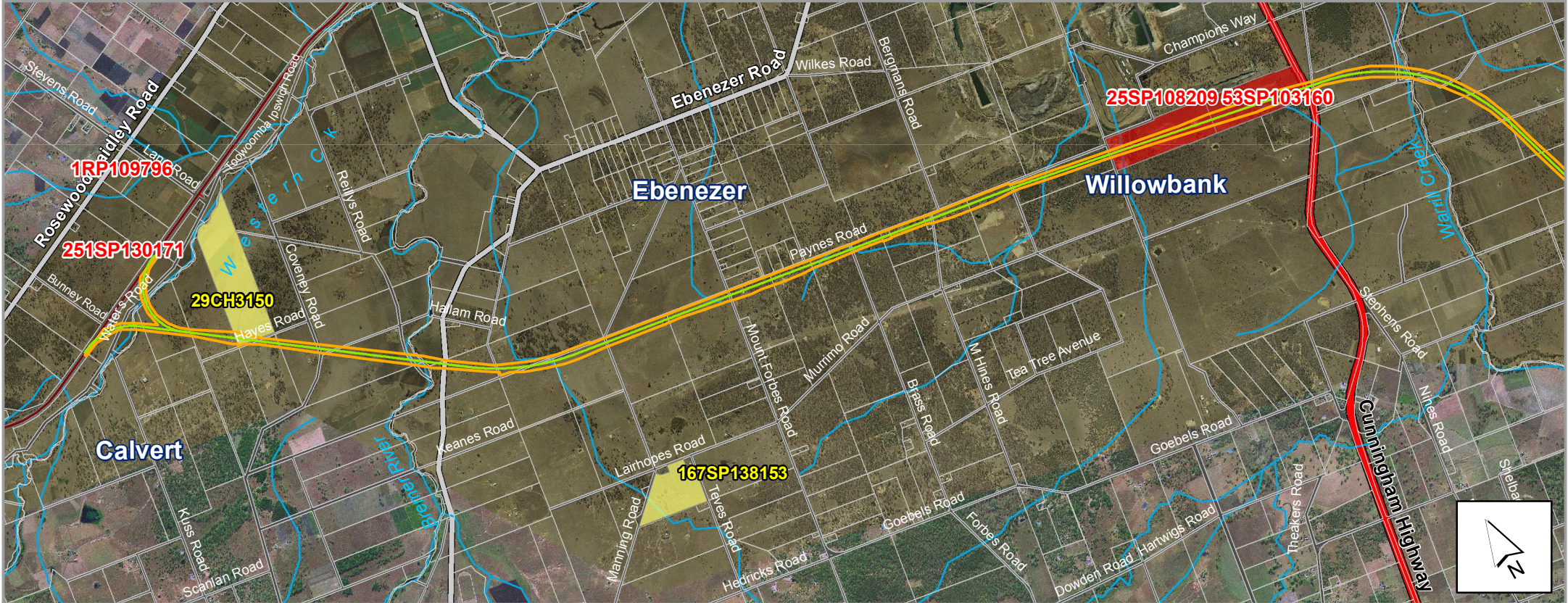


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A3 size

Map 1.4





- Legend**
- Existing Rail
  - Revised Rail Alignment
  - Preliminary CID Boundary
  - EMR Listed Lots
  - Not on EMR, Site Visit Recommended



**Southern Freight Rail Corridor Study  
Revised Assessment Report**

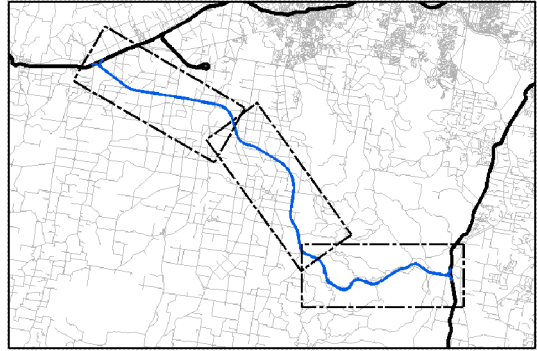
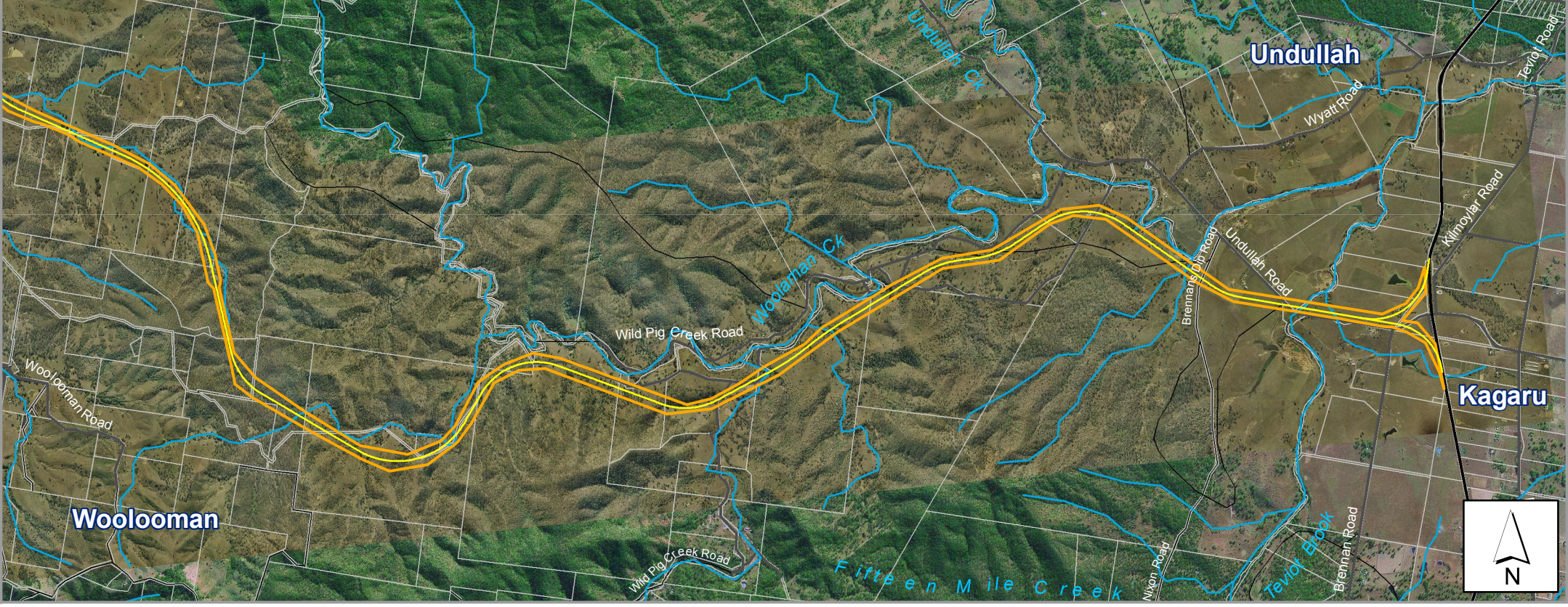
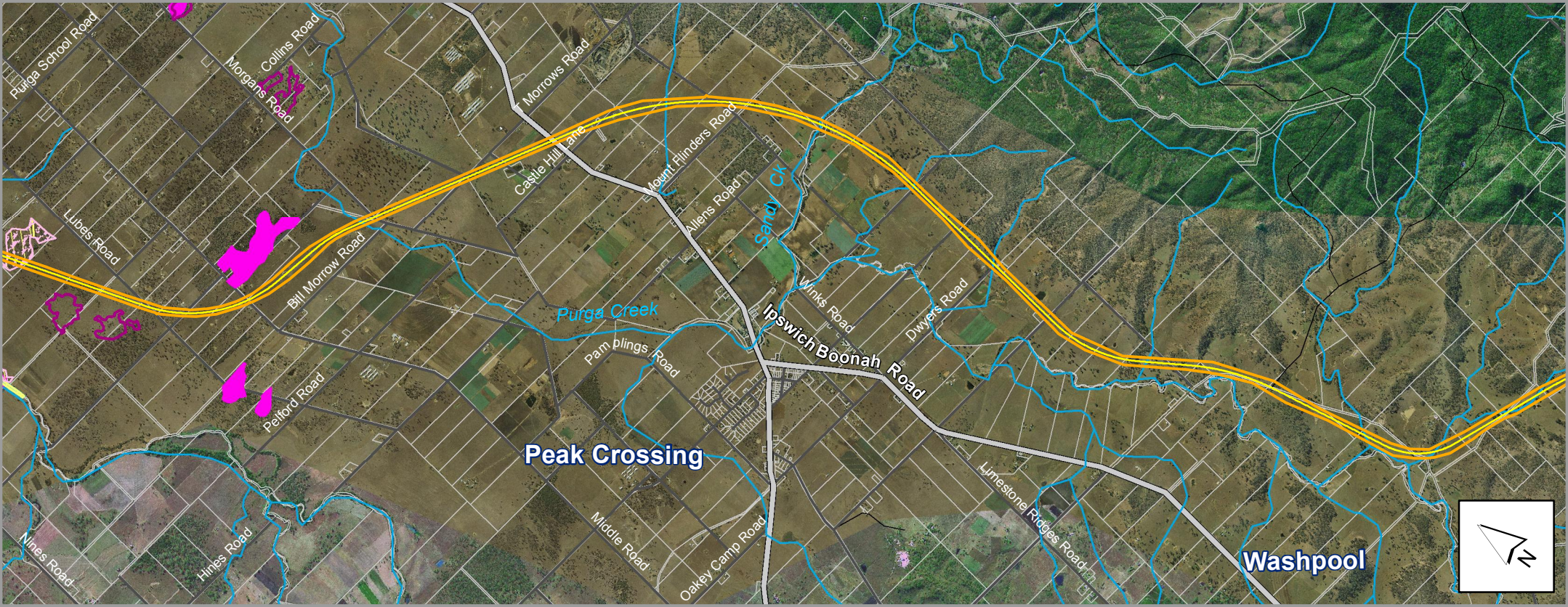
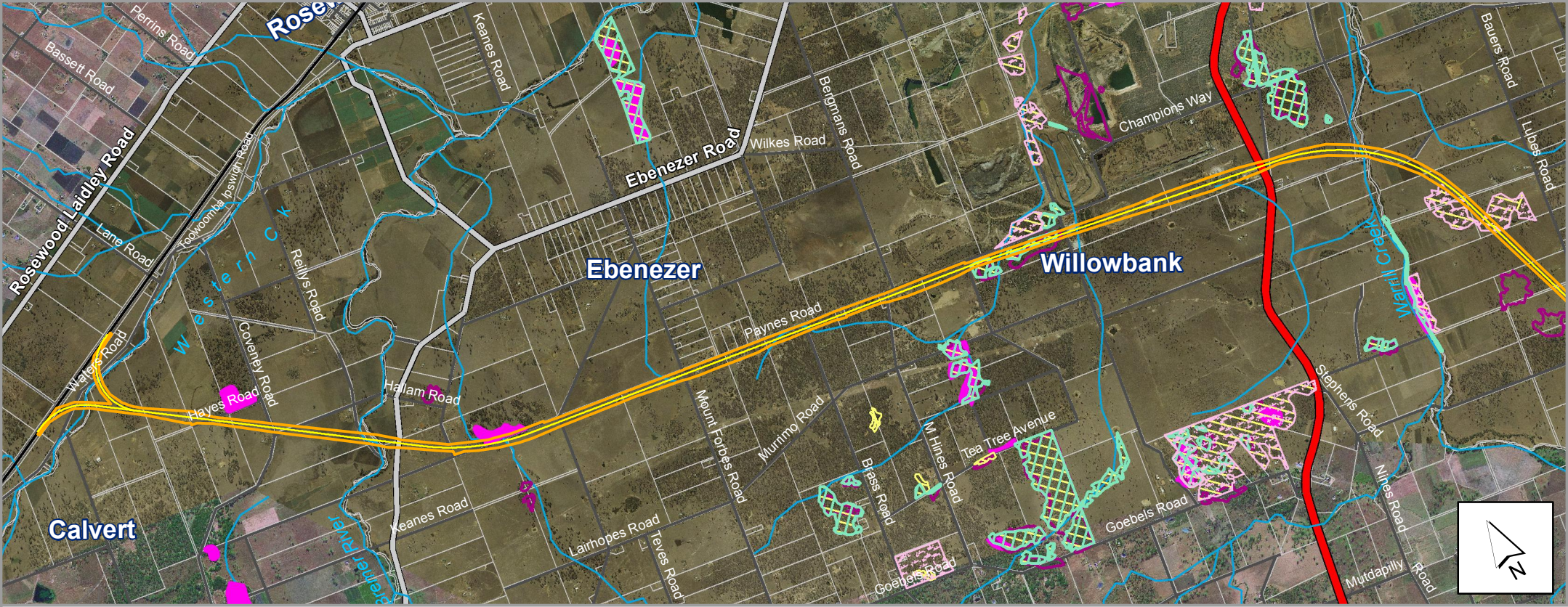
**Contaminated Land**



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A3 size Map 1.5





- Legend**
- Revised Rail Alignment
  - Existing Rail
  - Preliminary CID Boundary
  - Regional Ecosystem containing *M. irbyana*
  - ICC NCS-mapped *M. irbyana*
  - AECOM Observed *M. irbyana*
  - AECOM Observed Scattered Individual *M. irbyana*
  - AECOM Desktop Distribution Assessment of *M. irbyana*



**Southern Freight Rail Corridor Study  
Revised Assessment Report**

***Melaleuca irbyana* Distribution**

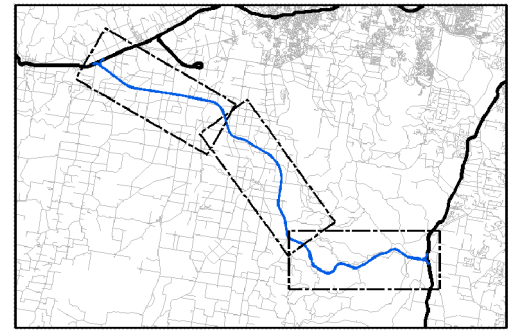
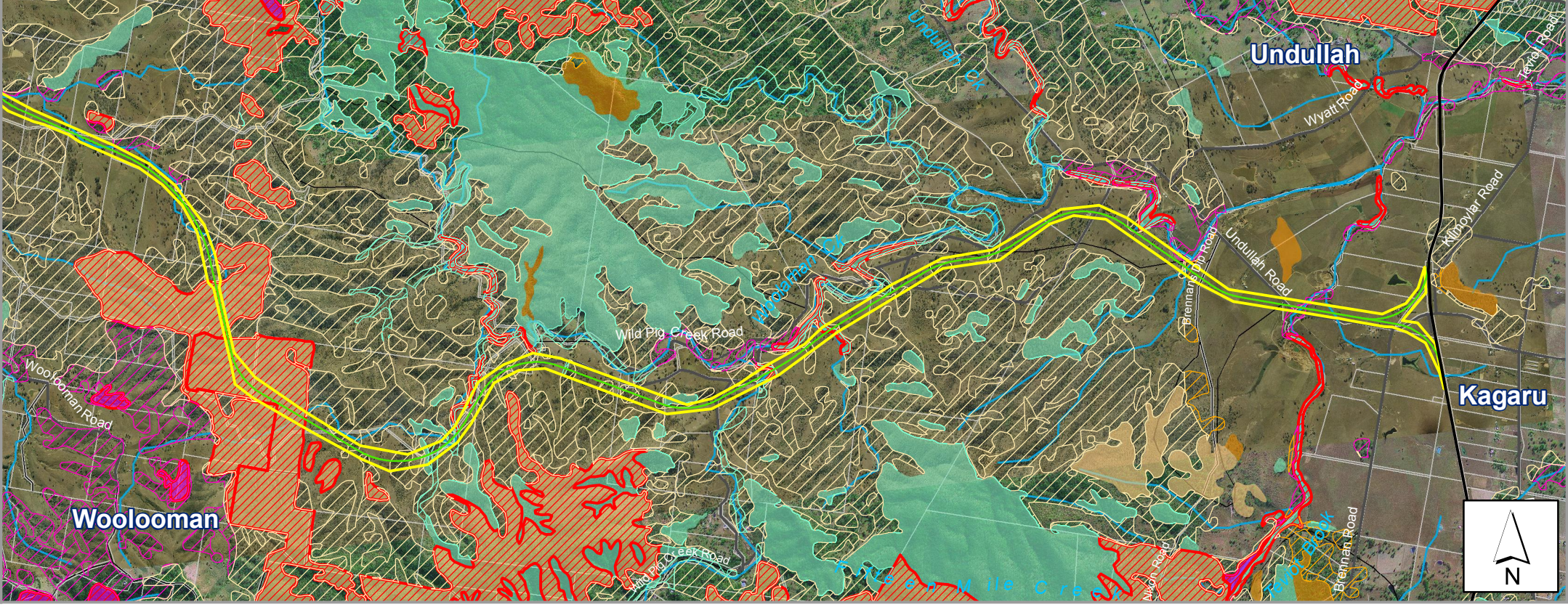
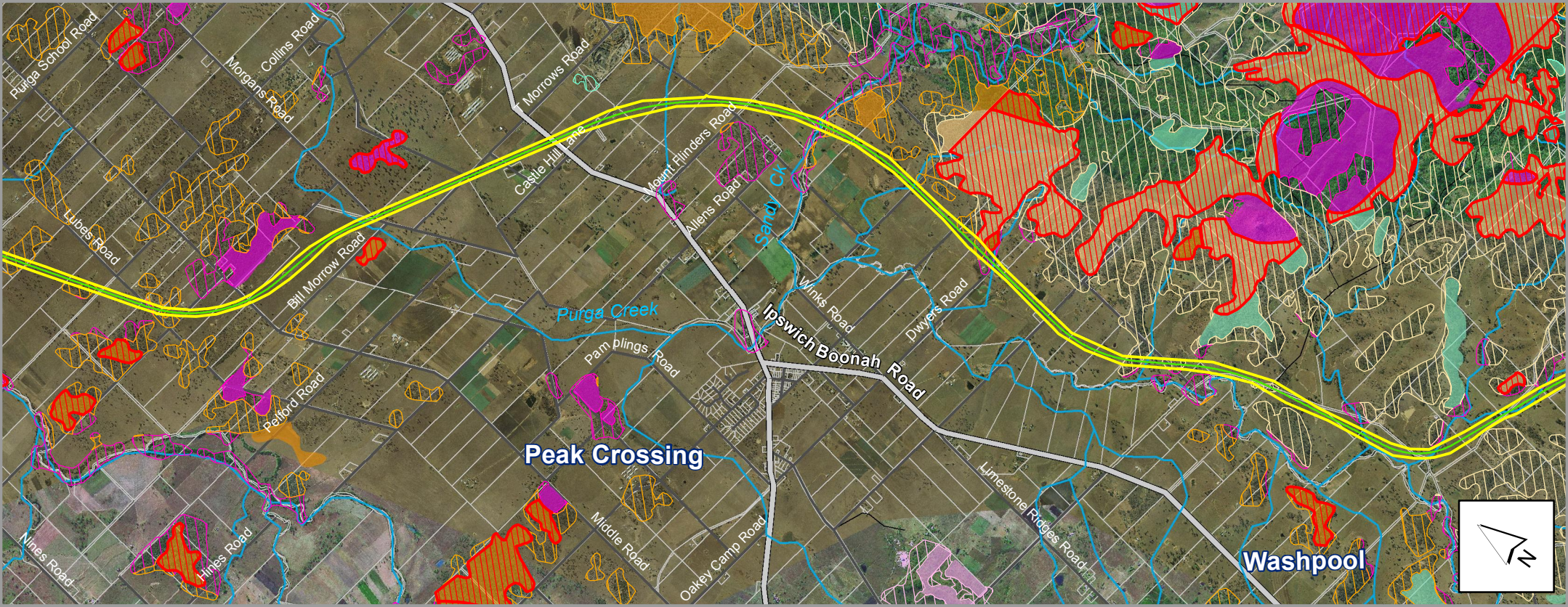
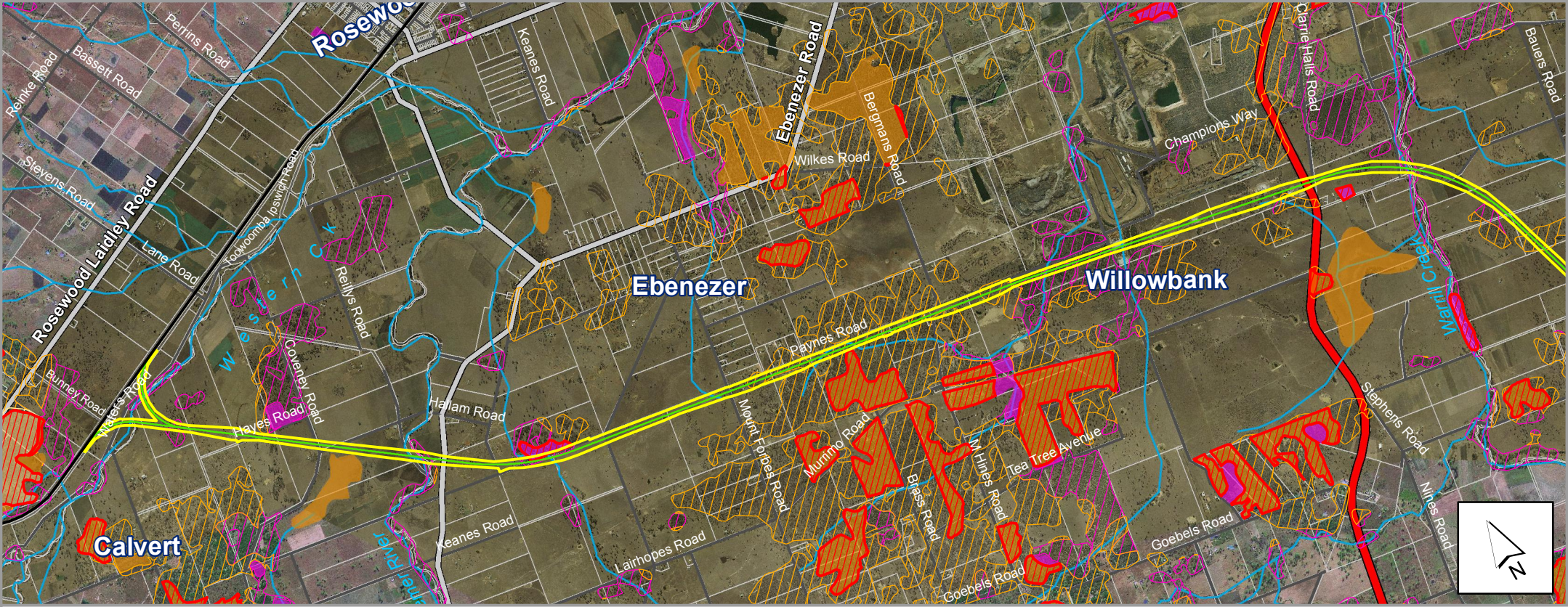


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Map 2.3





Legend

- Revised Rail Alignment
- Existing Rail
- Preliminary CID Boundary
- Essential Habitat

Regional Ecosystems v5

- Endangered - Sub-dominant
- Endangered - Dominant
- Of Concern - Sub-dominant
- Of Concern - Dominant
- Not Of Concern

High Value Regrowth

- Endangered - Dominant
- Endangered - Sub-dominant
- Of Concern - Dominant
- Of Concern - Sub-dominant
- Of Least Concern



Southern Freight Rail Corridor Study  
Revised Assessment Report

Regional Ecosystems, Essential Habitat

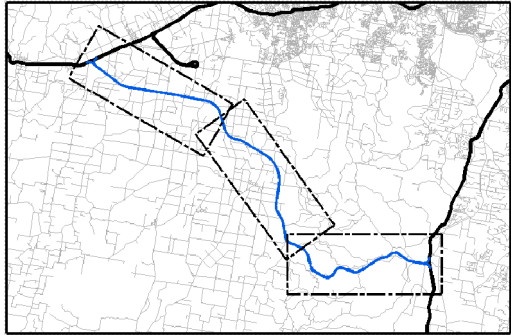
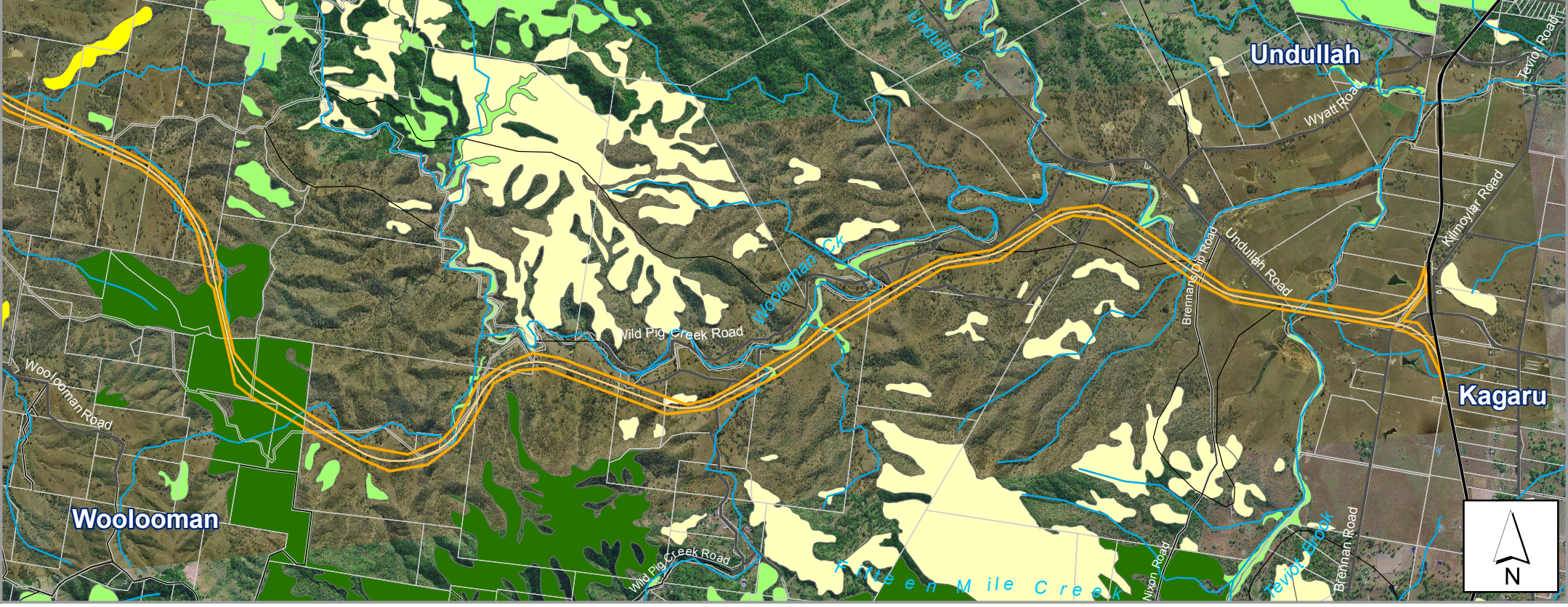
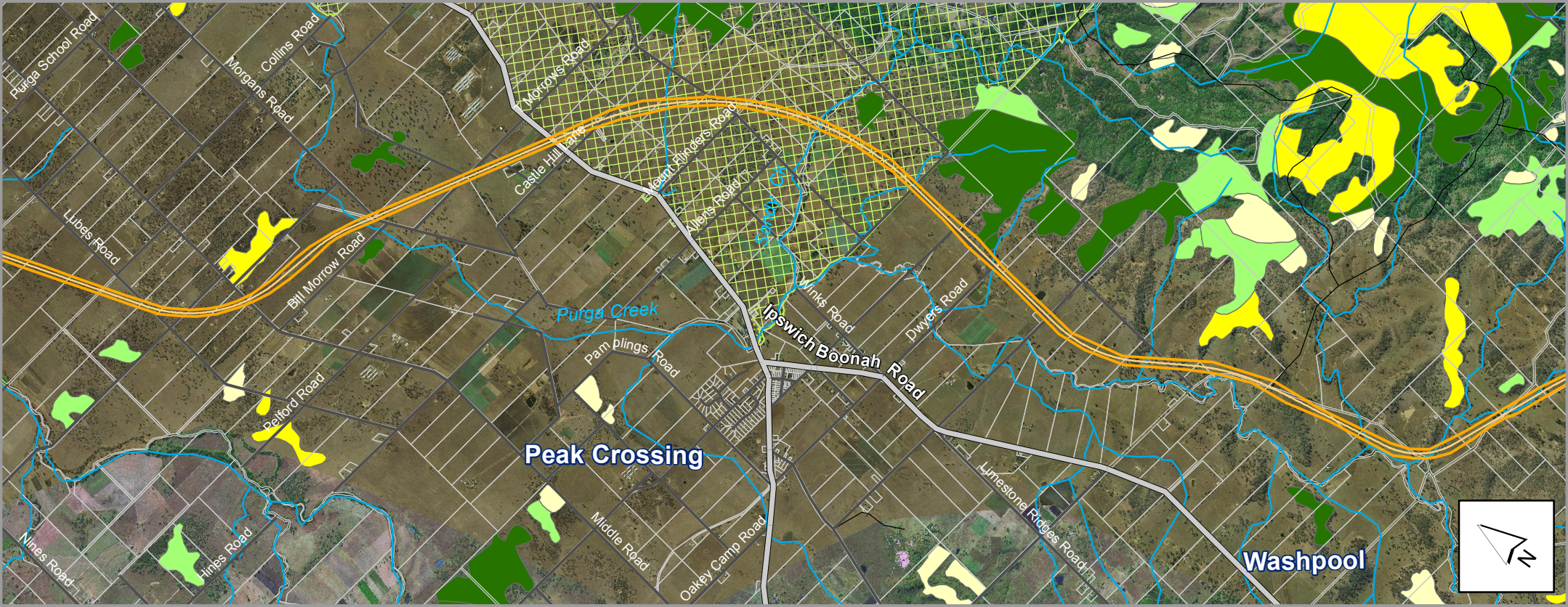
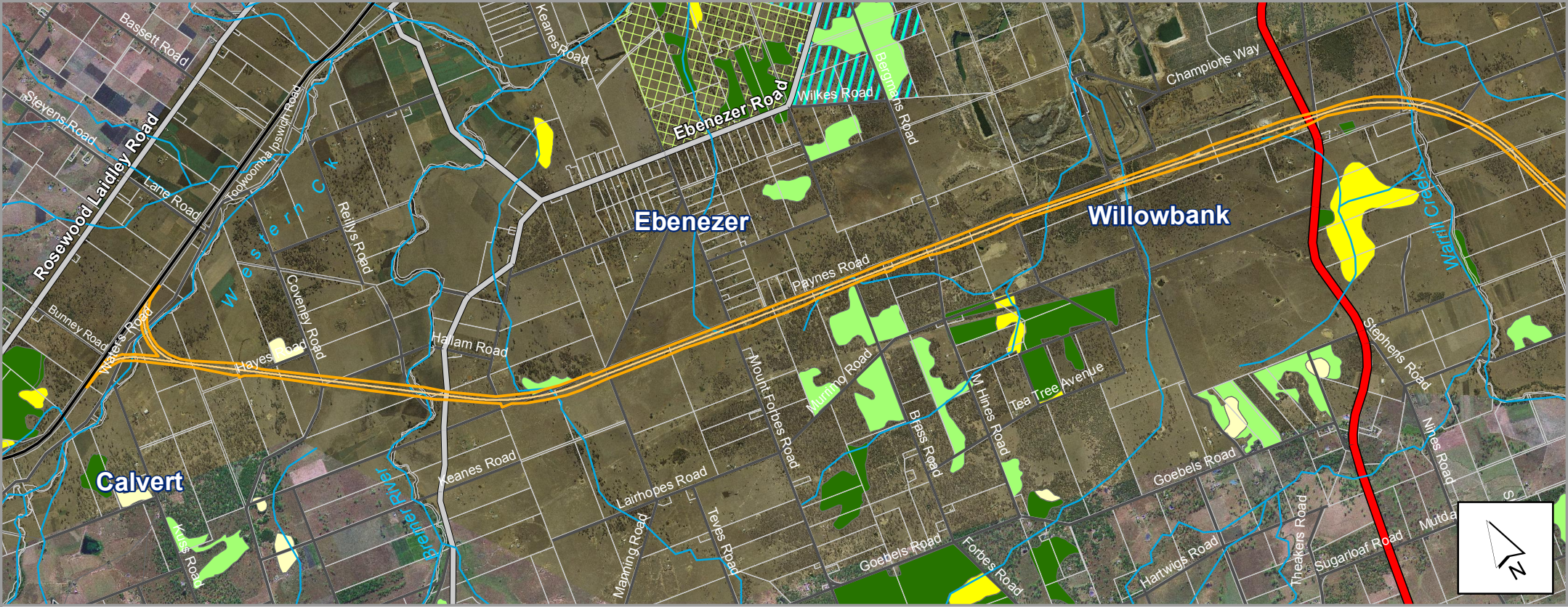


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A3 size

Map 2.4





Legend

- Existing Rail
- Revised Rail Alignment
- Preliminary CID Boundary

Koala Suitability Model

- Essential Habitat Known
- Essential Habitat Possible
- General Habitat Known
- General Habitat Possible

Koala Plan 2006

- Koala Conservation Area
- Koala Living Area
- Koala Sustainability Area
- Urban Koala Area



Southern Freight Rail Corridor Study  
Revised Assessment Report

Koala Habitat (Koala Plan and  
Koala Suitability Model)

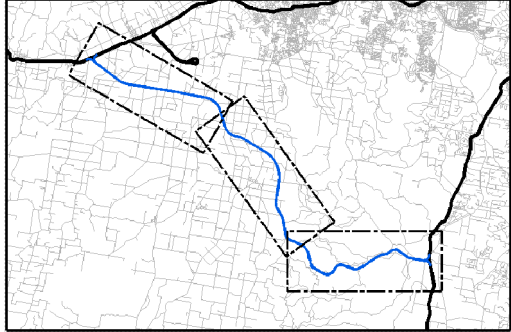
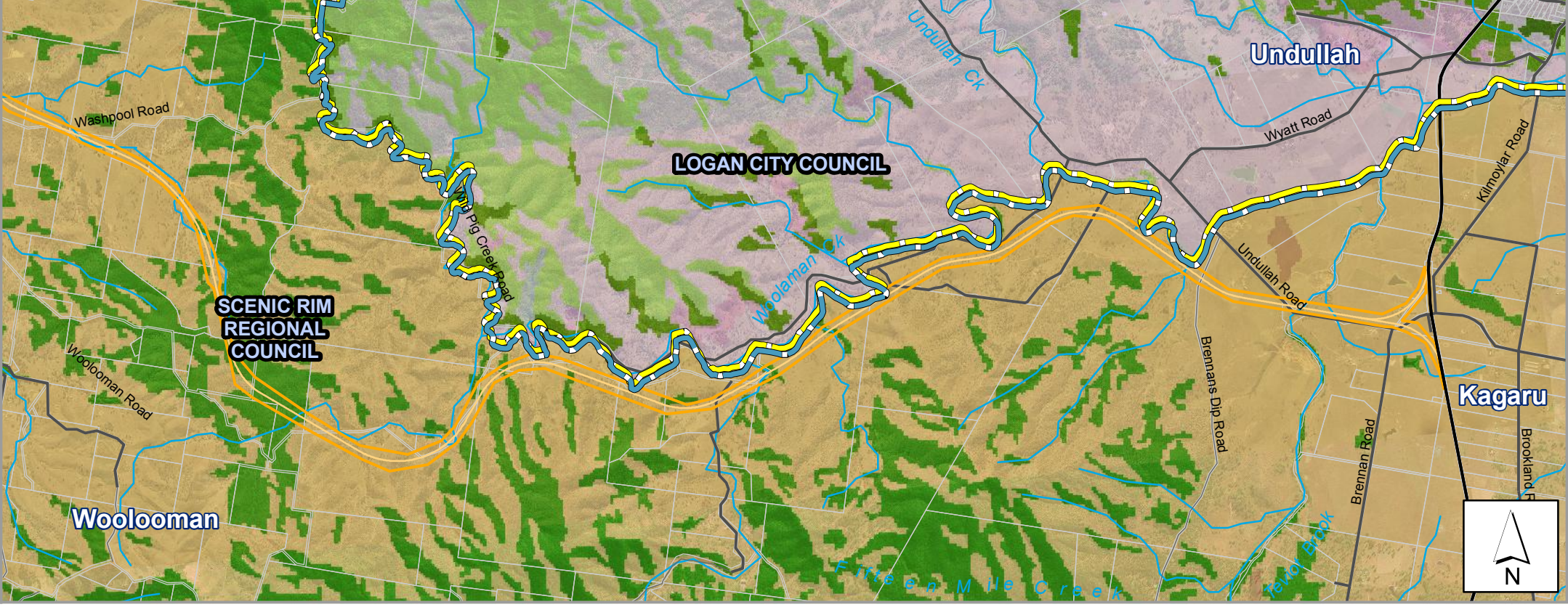
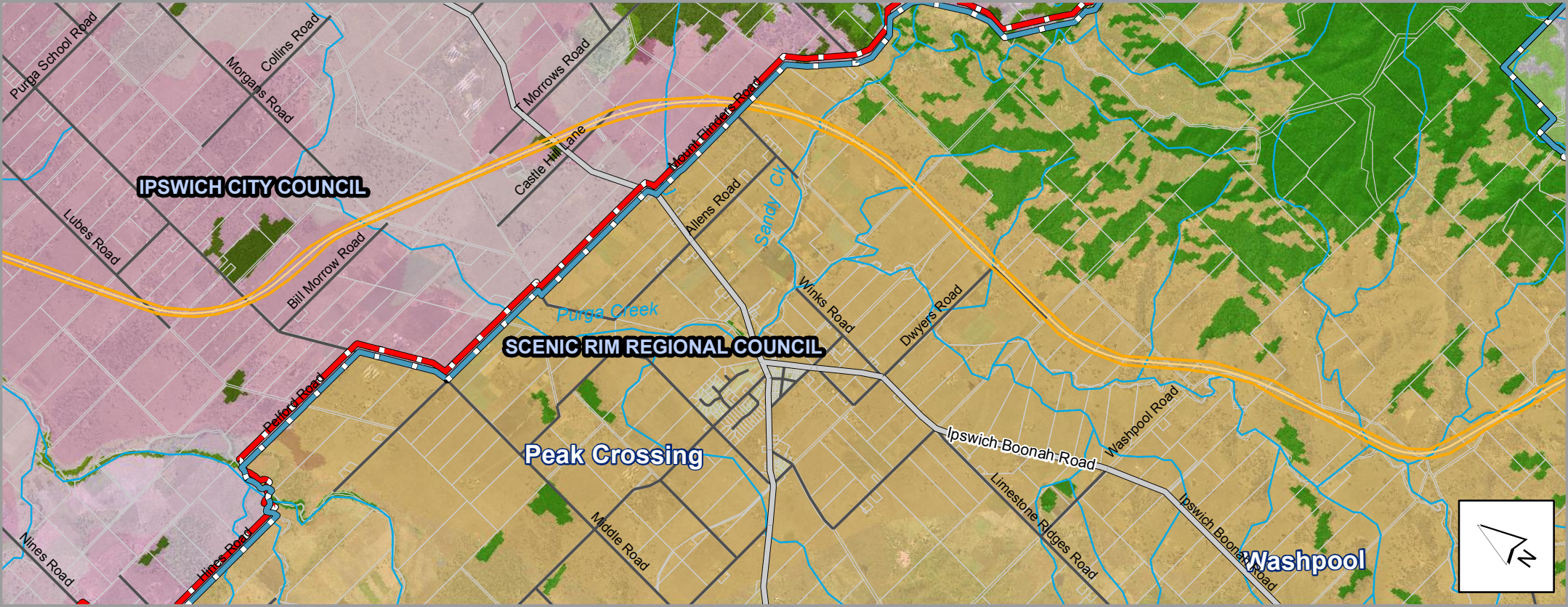


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Map 2.5





Legend

- Existing Rail
- Revised Rail Alignment
- Preliminary CID Boundary
- LGA Boundary
  - Ipswich City
  - Logan City
  - Scenic Rim Regional

- Scenic Rim Regional Council Koala Habitat
- Bushland habitat
  - Other areas of value
  - Suitable for rehabilitation
  - Generally not suitable
  - Water

- Logan and Ipswich City Council's Koala Habitat
- |                             |                        |
|-----------------------------|------------------------|
| High Value Bushland         | High Value Other       |
| Medium Value Bushland       | Medium Value Other     |
| Low Value Bushland          | Low Value Other        |
| High Value Rehabilitation   | Generally not suitable |
| Medium Value Rehabilitation | Water                  |
| Low Value Rehabilitation    |                        |



Southern Freight Rail Corridor Study  
Revised Assessment Report

DERM Koala Habitat Mapping 2009



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Map 2.9





- Legend**
- Revised Rail Alignment
  - Preliminary CID Boundary
  - River Catchments



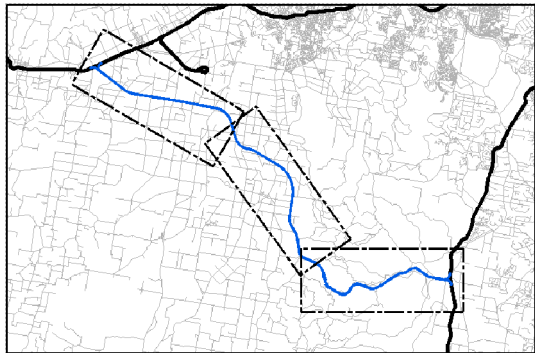
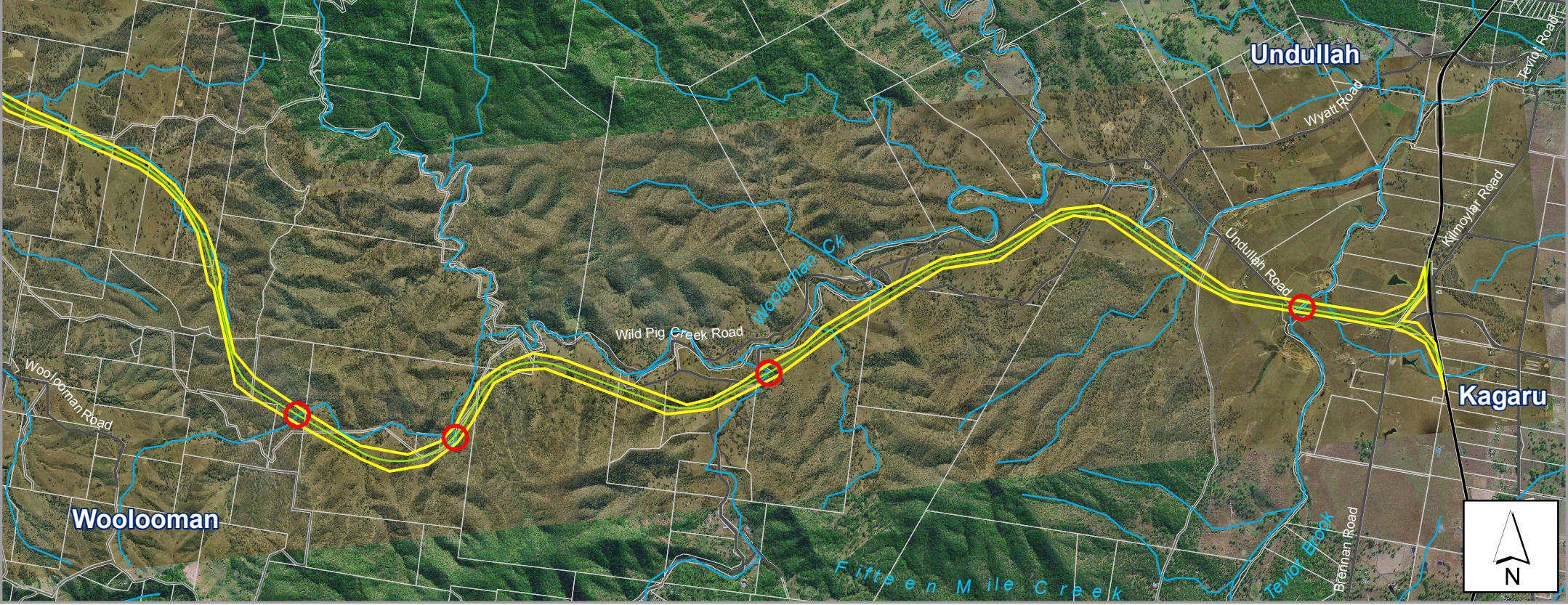
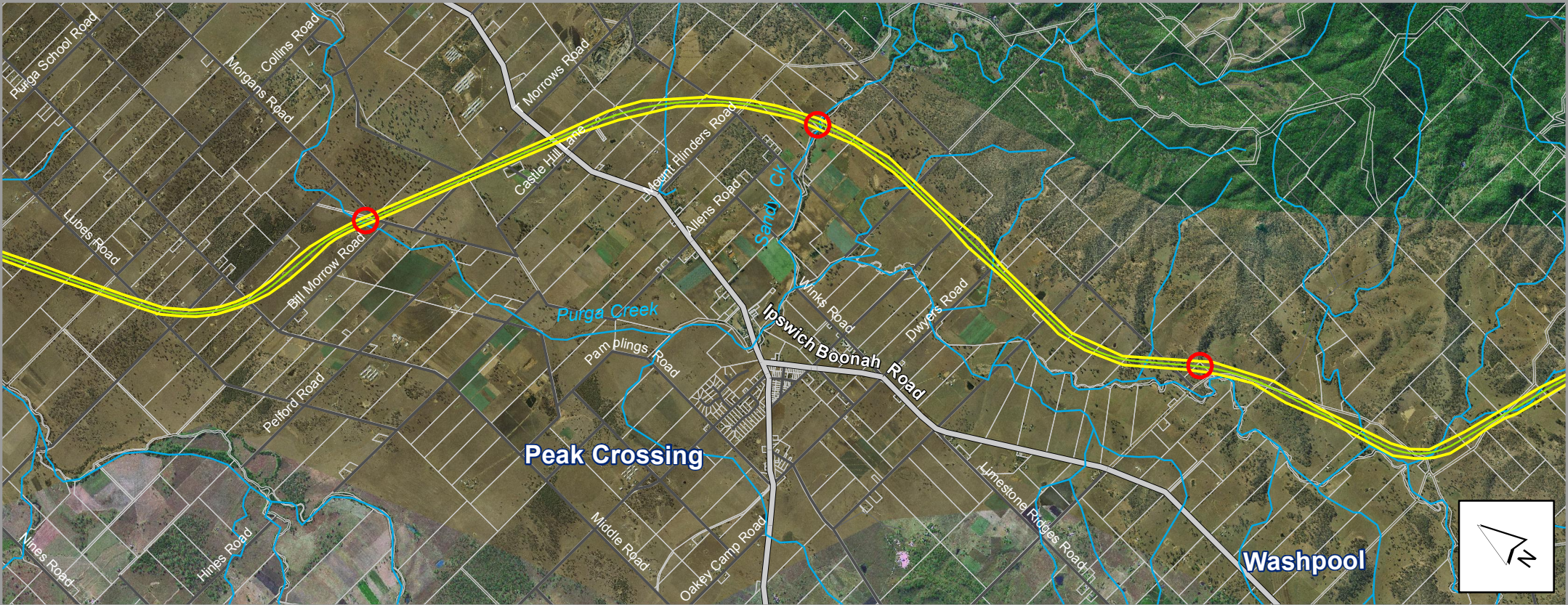
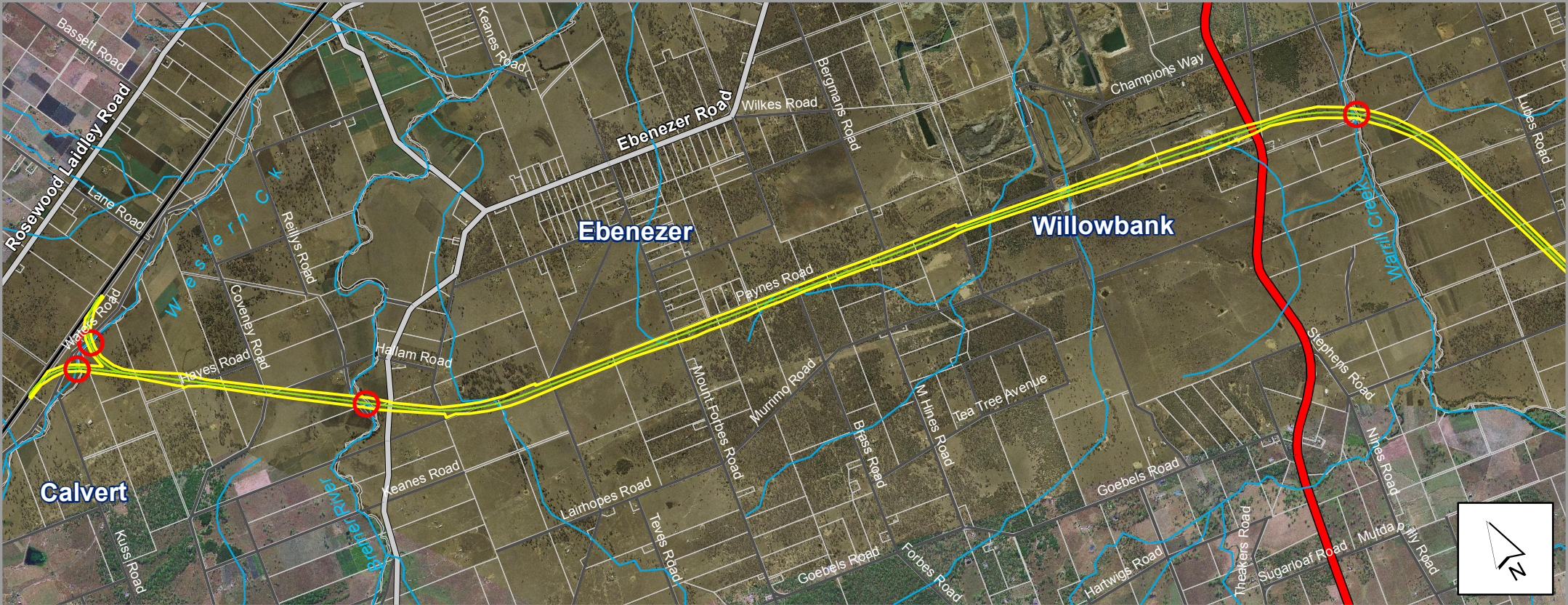
**Southern Freight Rail Corridor Study  
Revised Assessment Report**

**Main River Catchments - Bremer & Logan Rivers**



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- Legend**
- Existing Rail
  - Revised Rail Alignment
  - Preliminary CID Boundary
  - Creek Crossing



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**Creek Crossings**

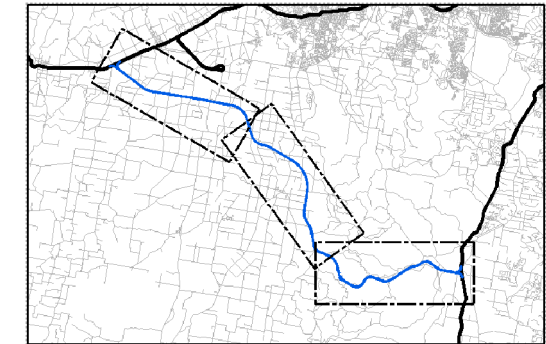
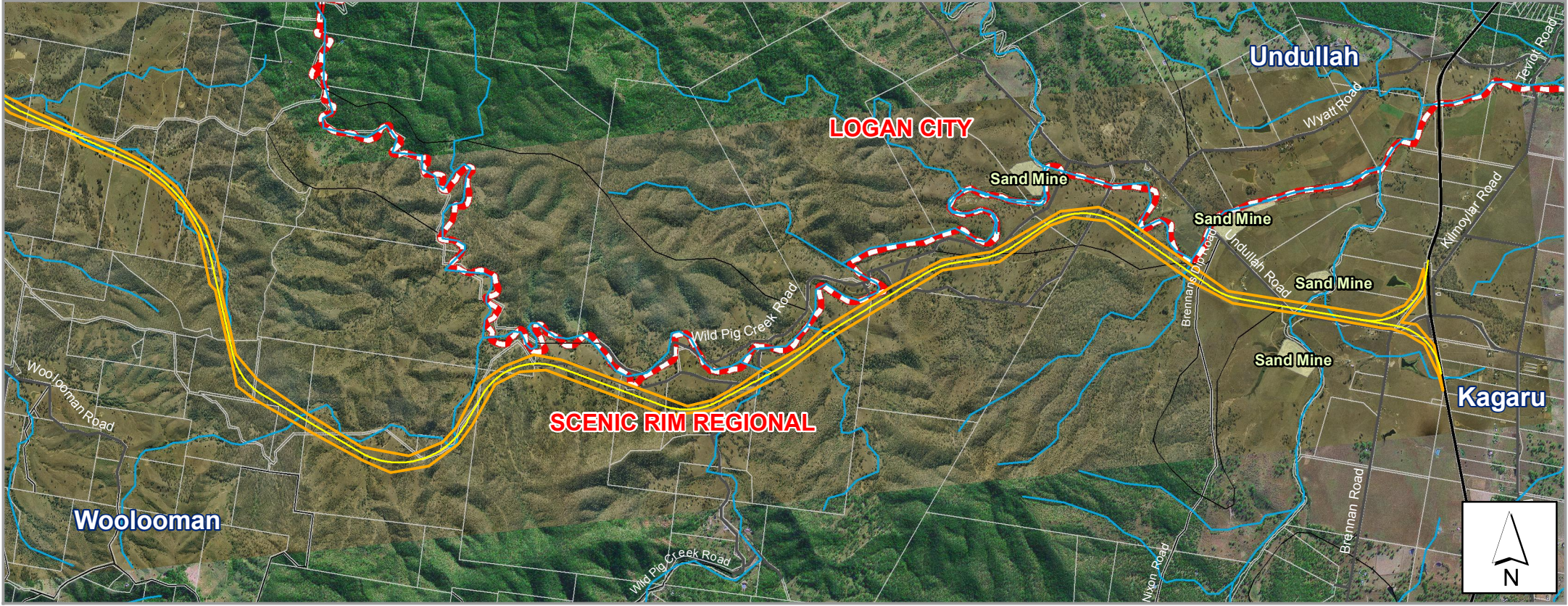
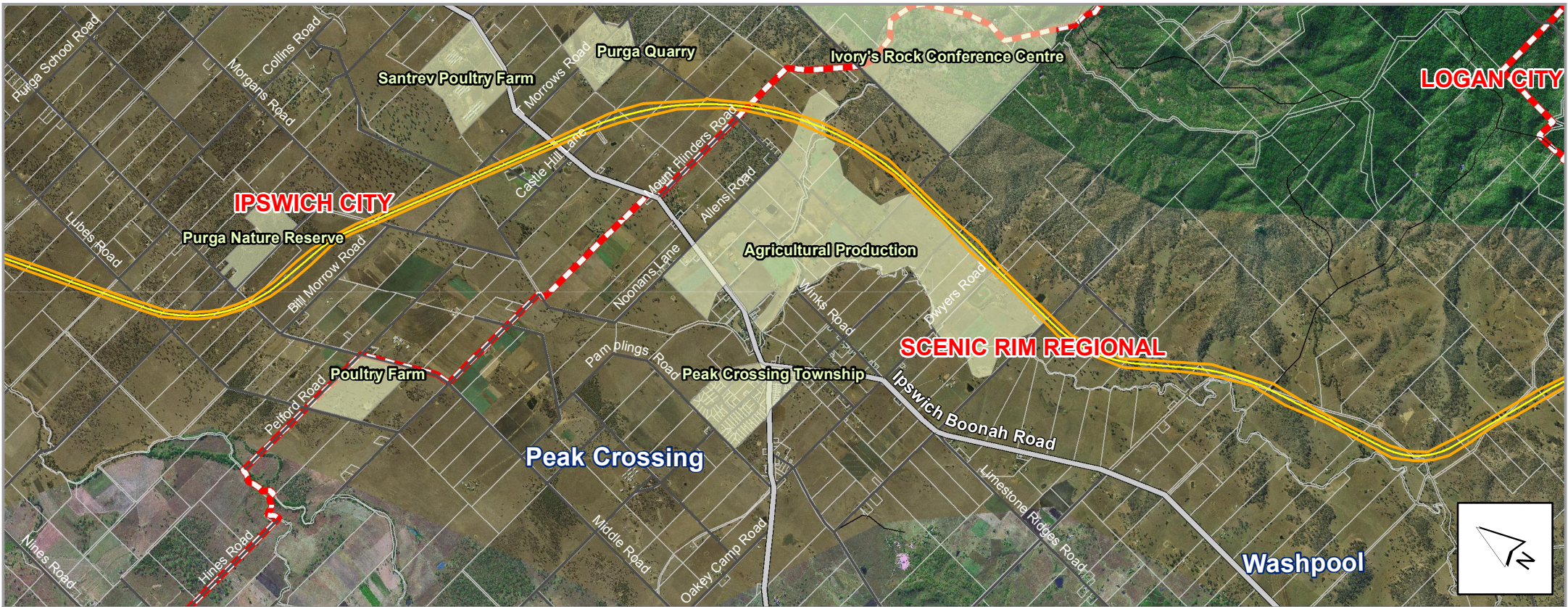


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Map 3.3





- Legend**
- Revised Rail Alignment
  - Existing Rail
  - Preliminary CID Boundary
  - Notable Land Uses
  - LGA Boundary



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**Notable Land Uses**

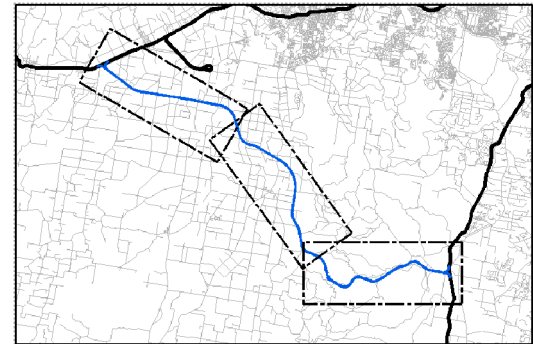
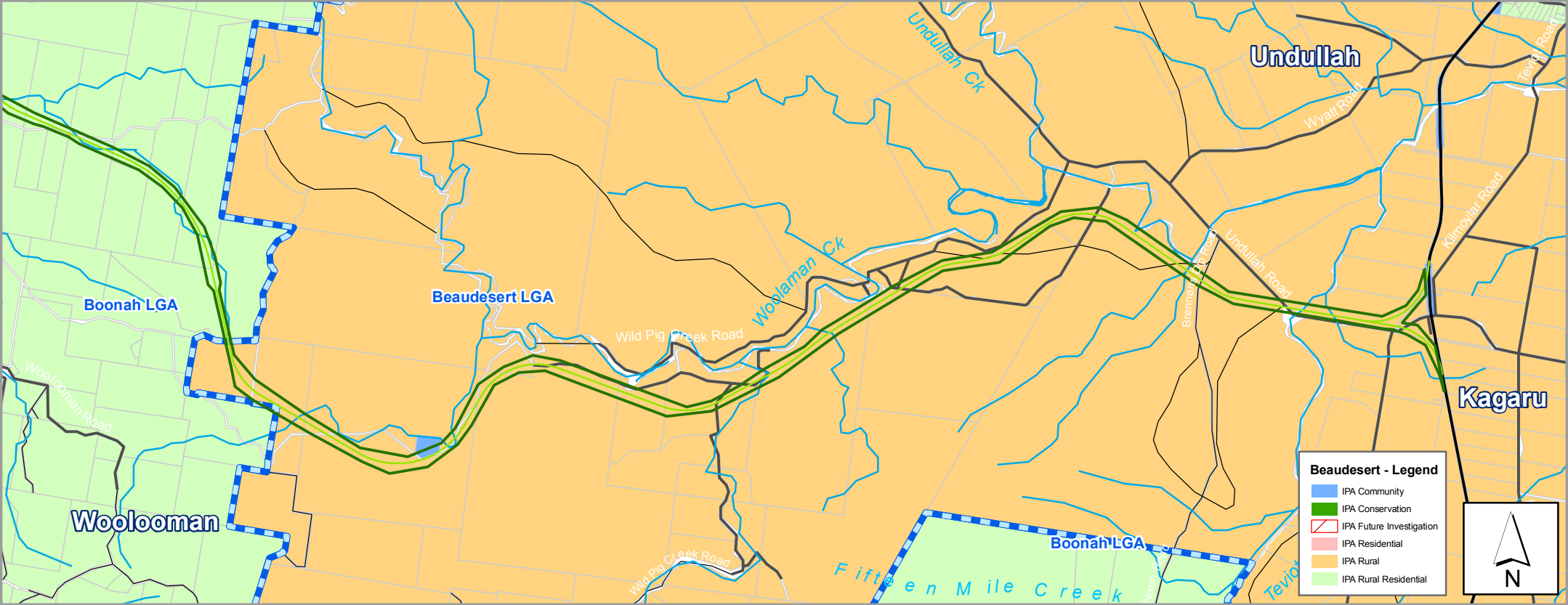
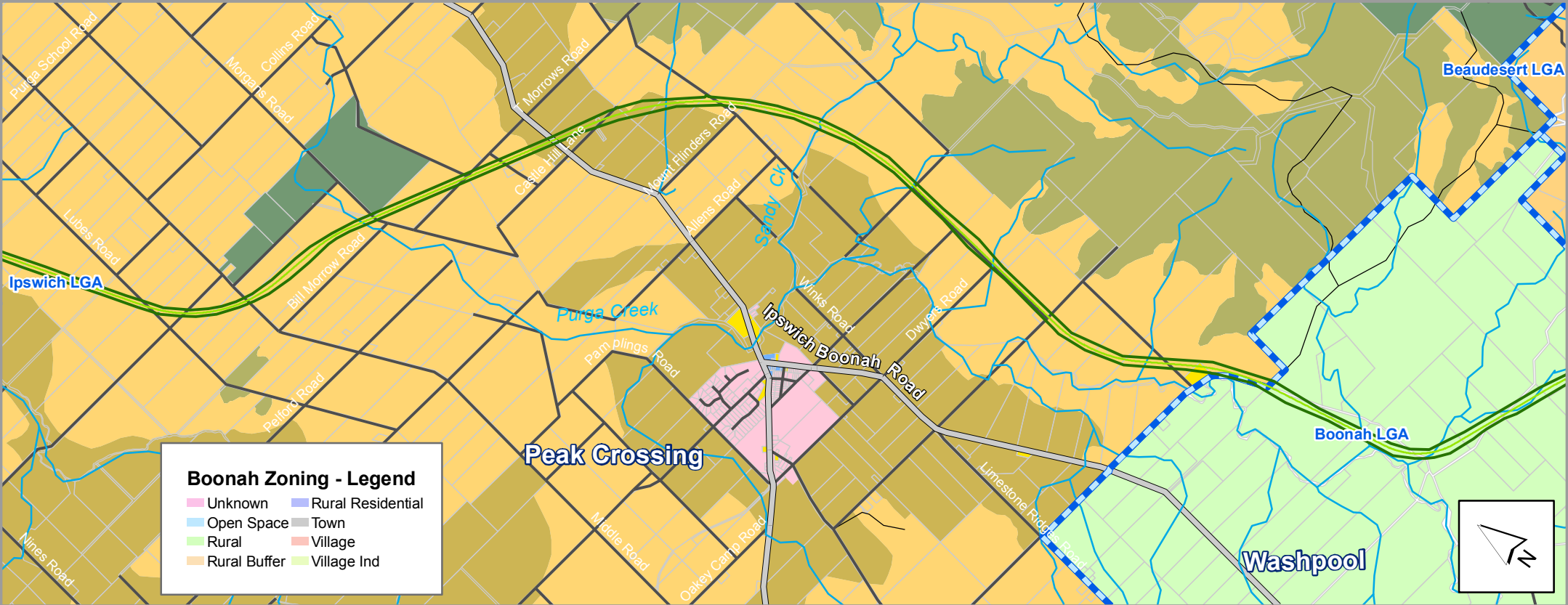
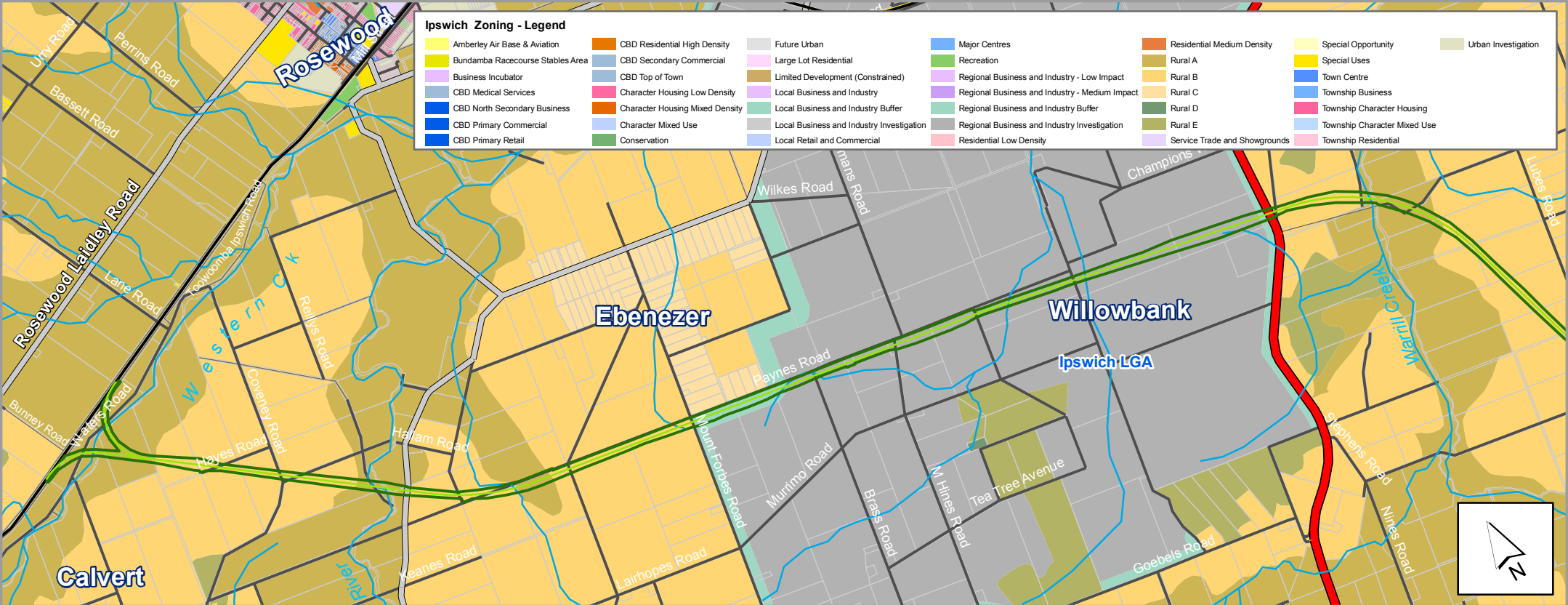


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A3 size

Map 5.5





- Legend**
- Existing Rail
  - Revised Rail Alignment
  - Preliminary CID Boundary
  - Former LGA Boundaries



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Planning Scheme Zoning

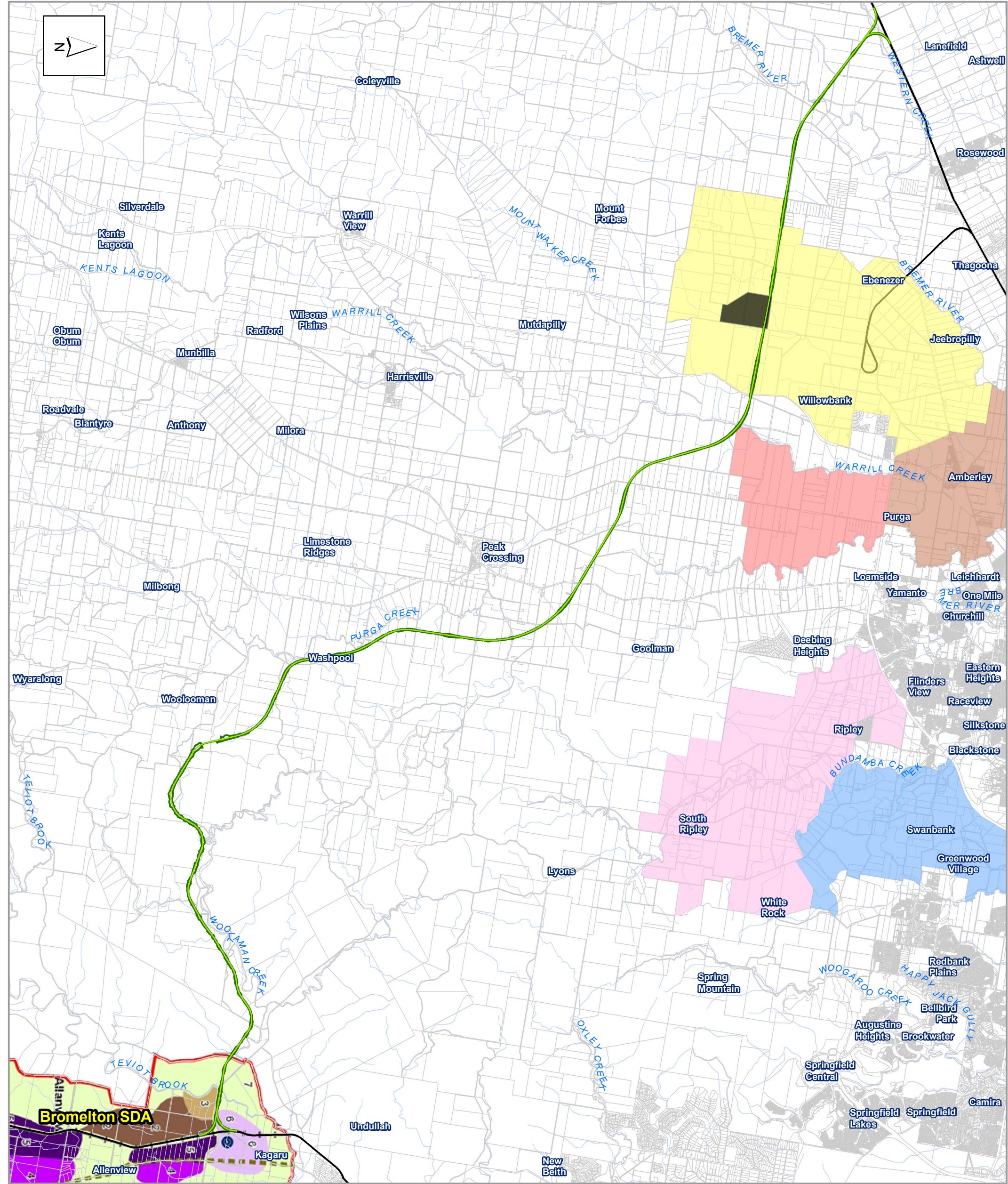


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A3 size

Map 5.6





- Legend**
- Revised Rail Alignment
  - Existing Rail
  - Revised Earthworks Boundary
  - Future Powerlink Substation Site
  - Ripley Valley
  - Amberley Air Base & Aerospace Park
  - Purga Identified Growth Area
  - Swanbank Enterprise Park
  - Ebenezer Regional Development Area



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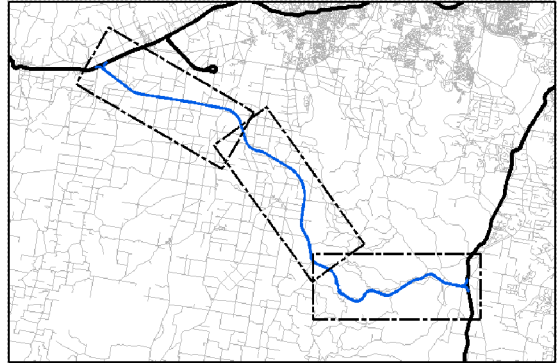
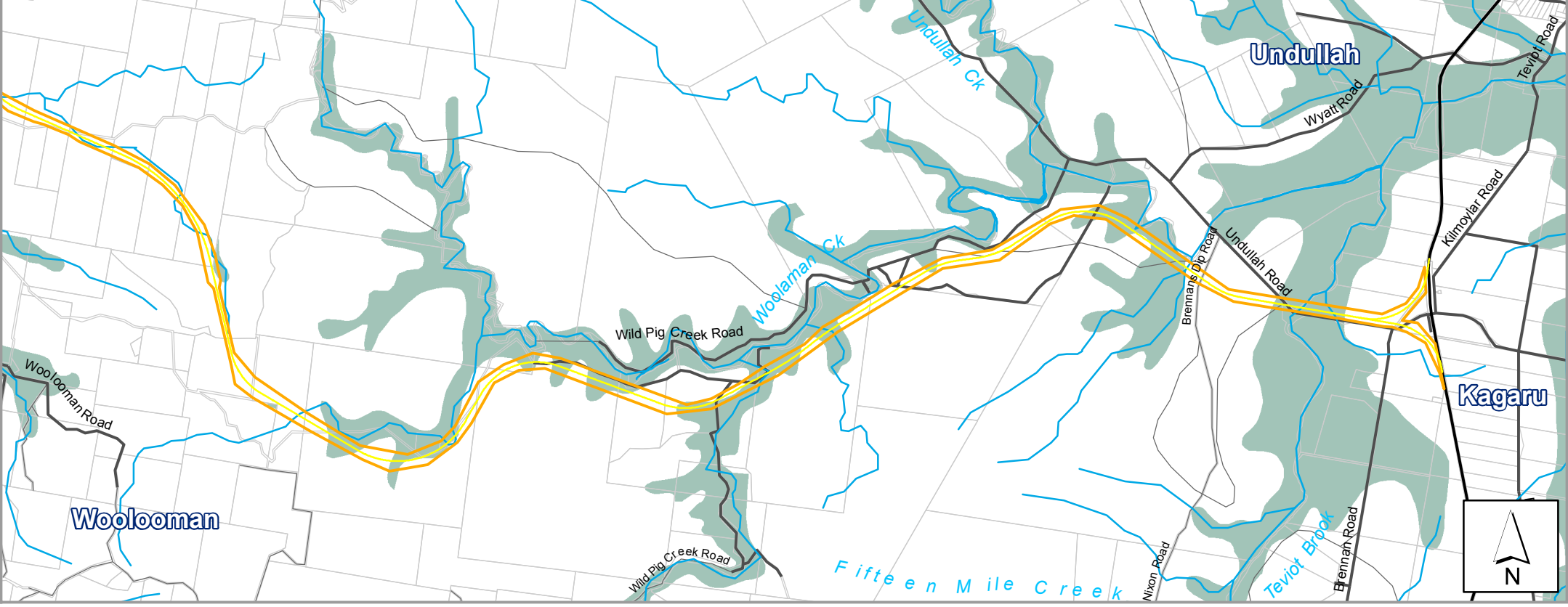
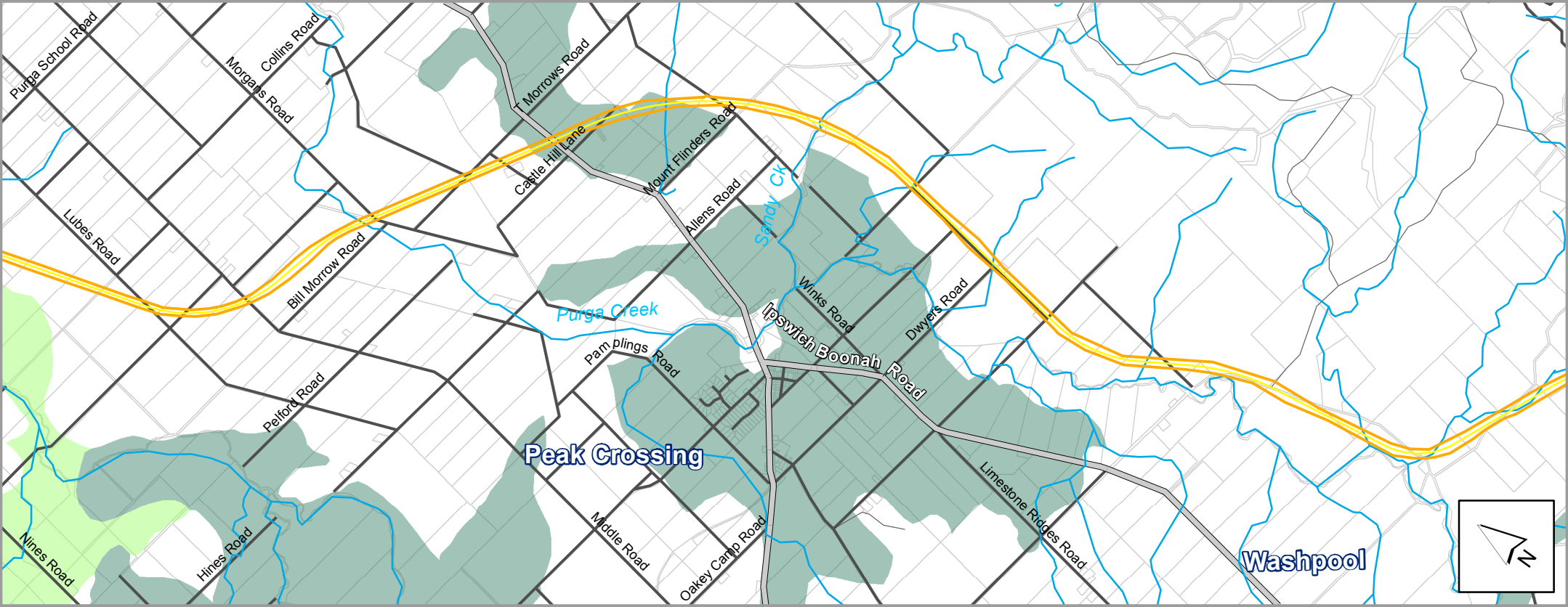
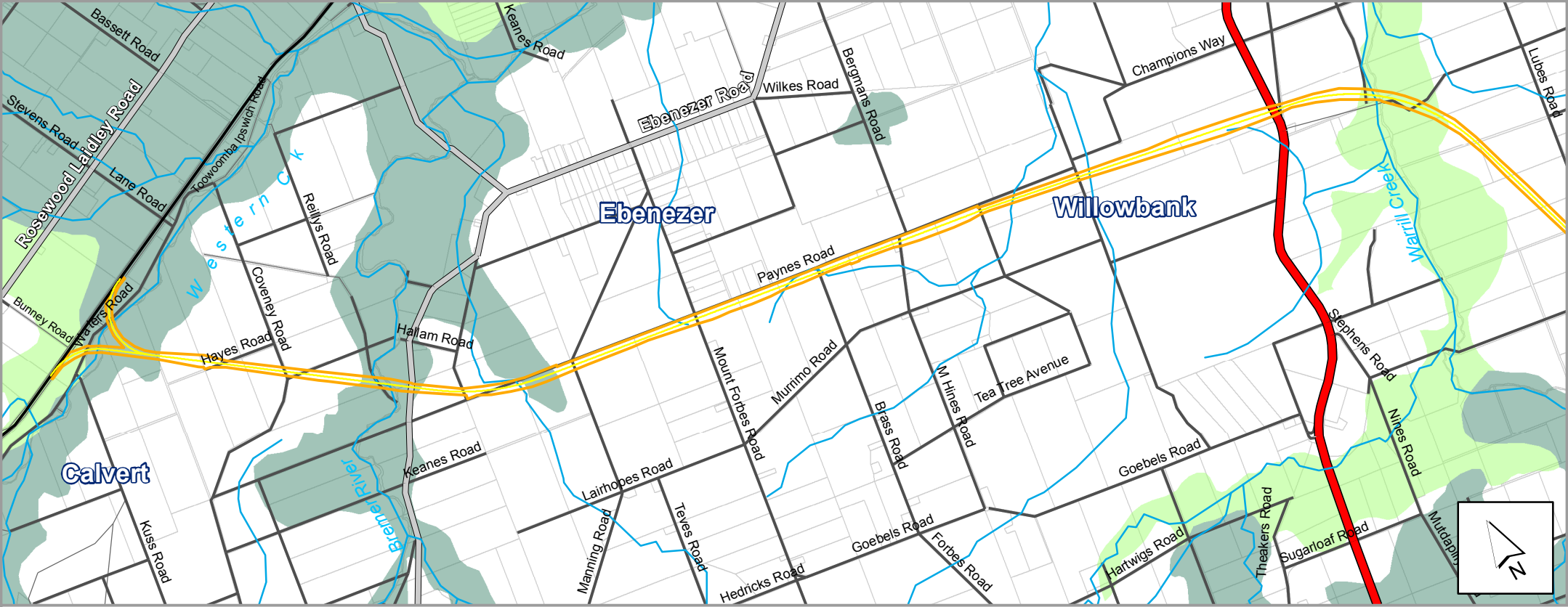
**Future Land Uses**



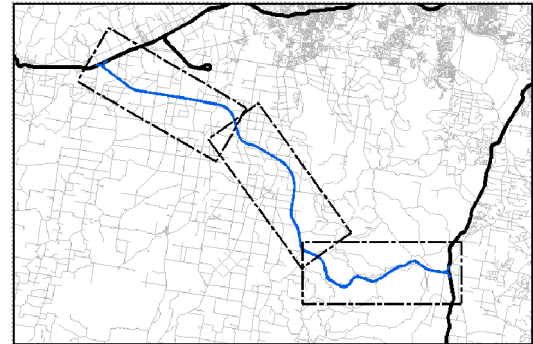
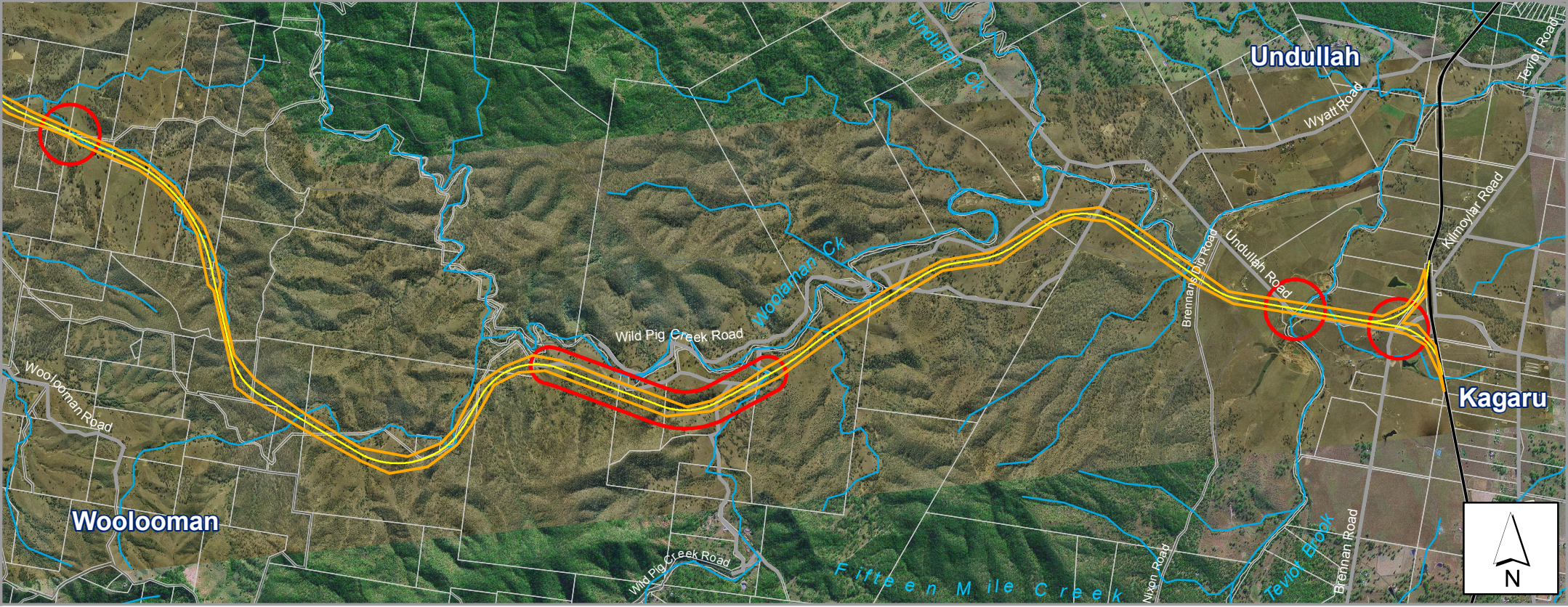
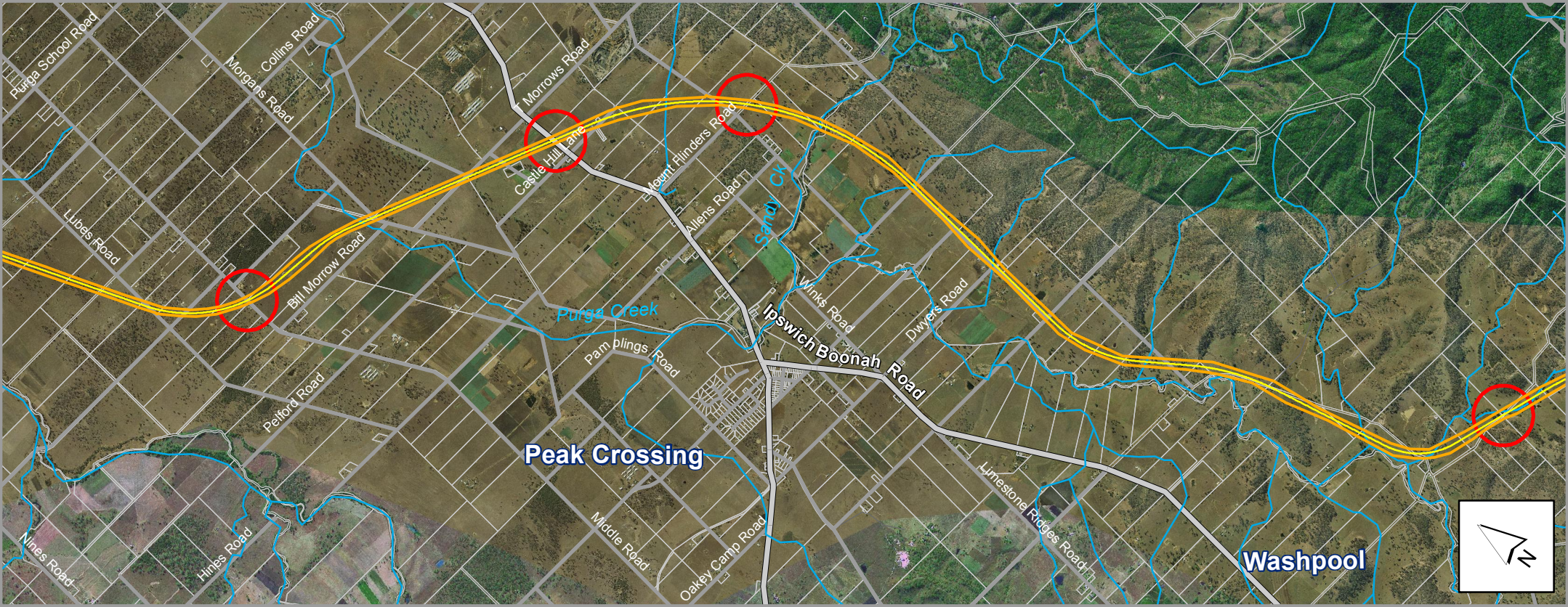
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A3 size Map 5.7









- Legend**
- Existing Rail
  - Revised Rail Alignment
  - Preliminary CID Boundary
  - Major Road Crossings



**Southern Freight Rail Corridor Study  
Revised Assessment Report**

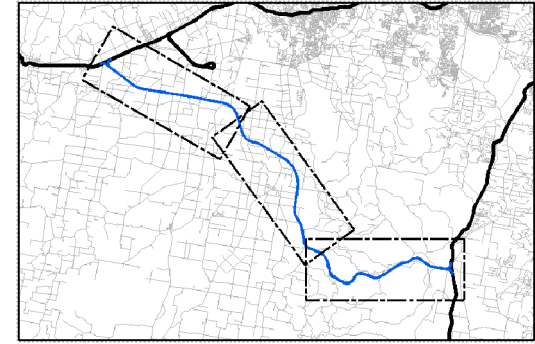
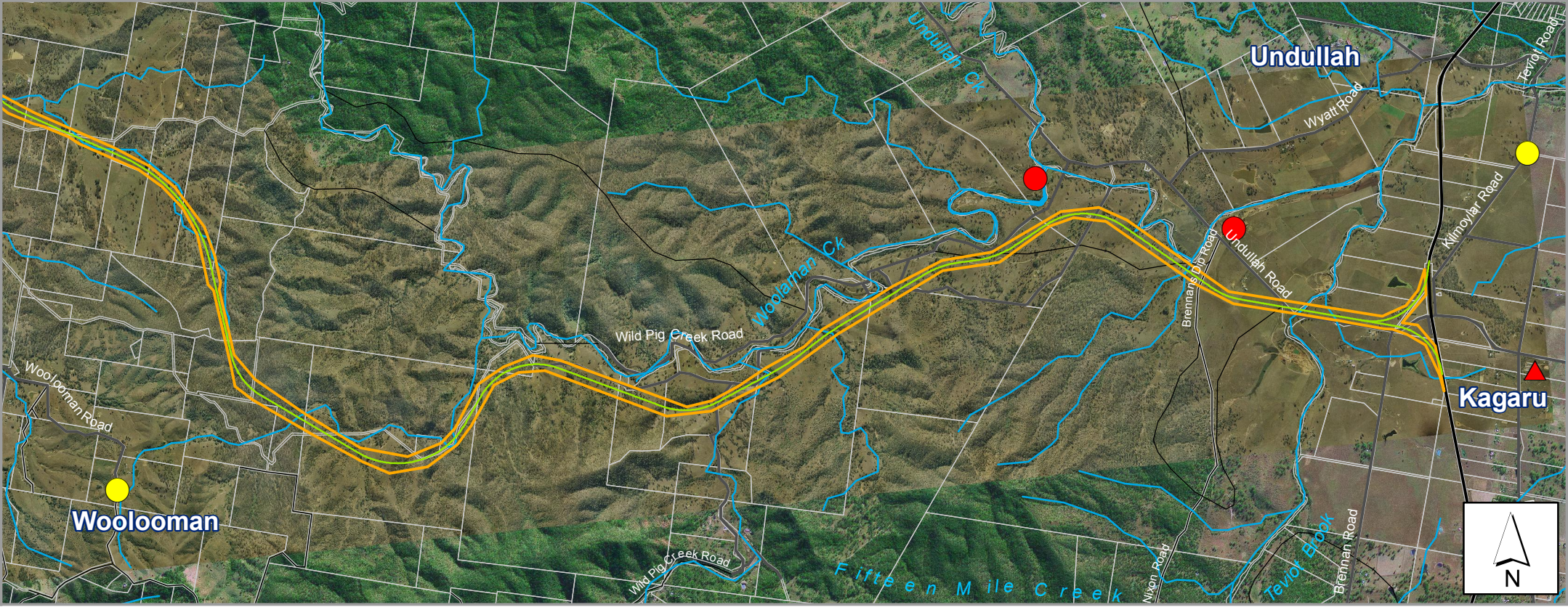
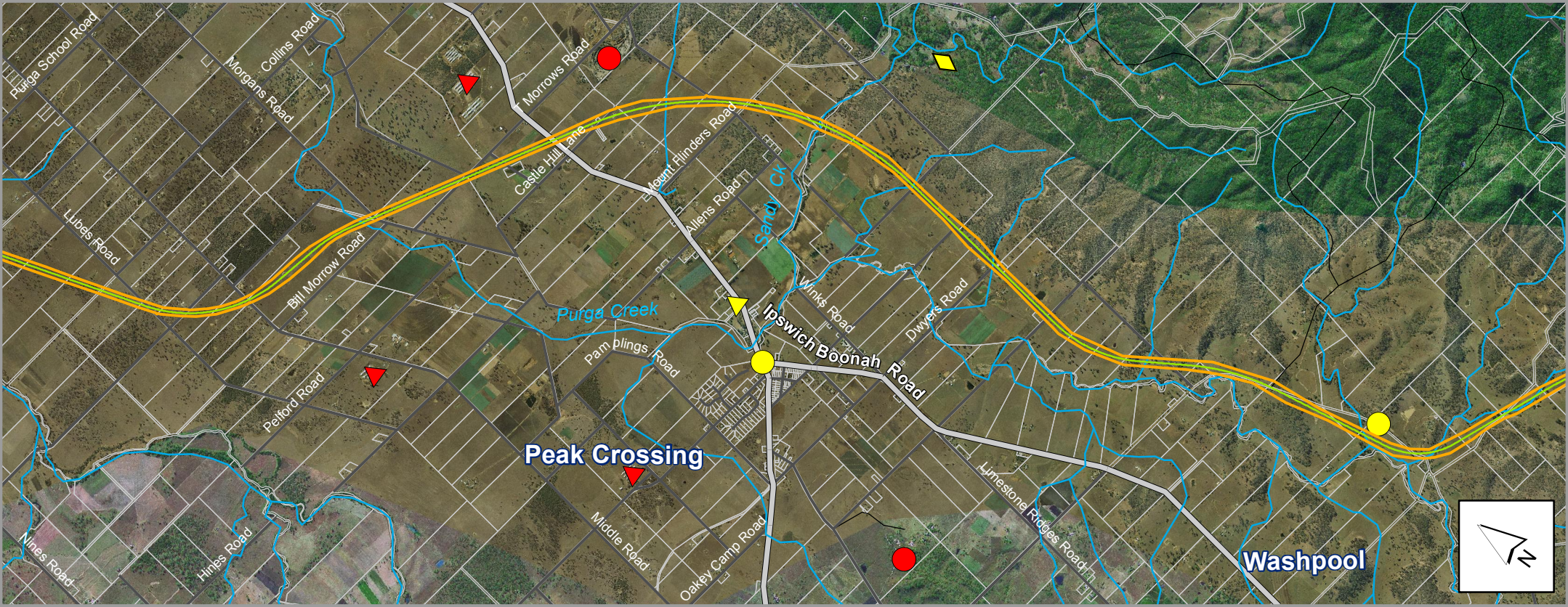
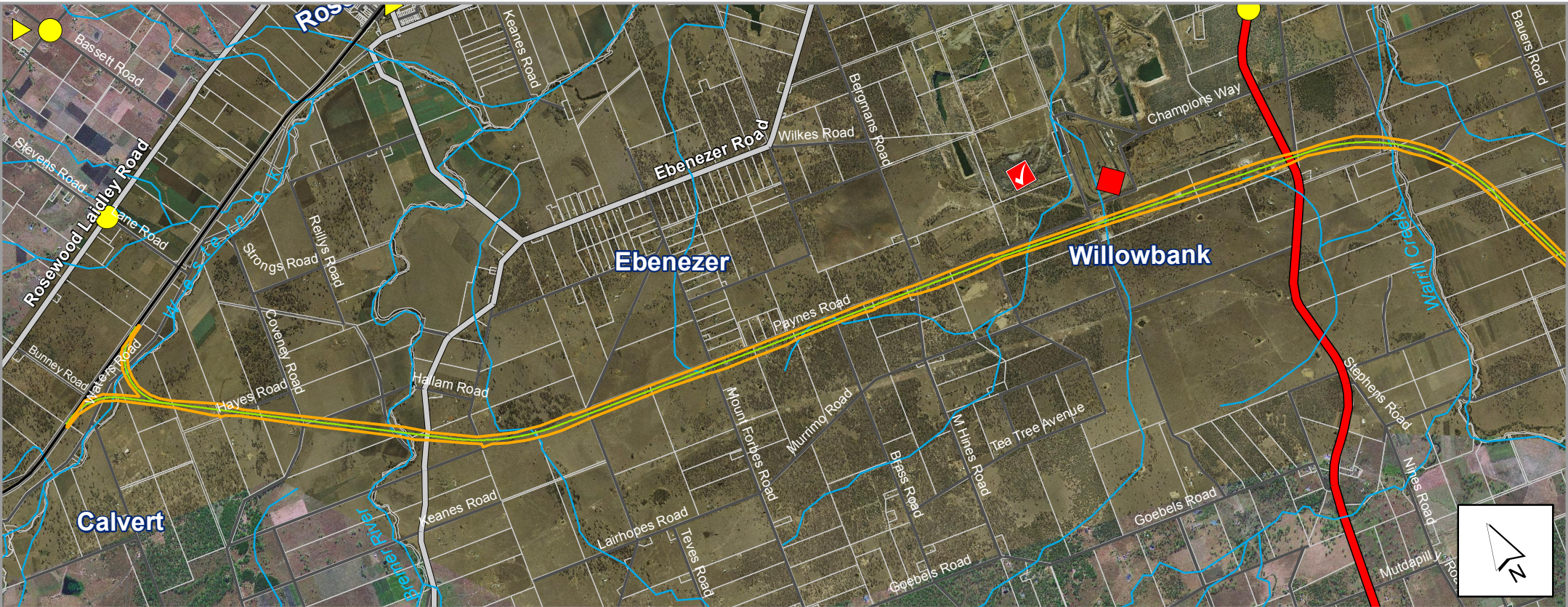
**Major Road Crossings**



1:60,000 (when printed at A3)

A3 size Map 5.11





Legend

- Revised Rail Alignment
- Existing Rail
- Preliminary CID Boundary

Existing Receptors

- Schools
- Towns / Settlements
- Ivory's Rock Conference Centre

Existing Potential Emission Sources

- Quarry; Dolomite Quarry
- Poultry Farm
- Ti-Tree Landfill / Bioreactor
- Willowbank Raceway

Southern Freight Rail Corridor Study  
Revised Assessment Report

Air Quality - Emitters & Receptors

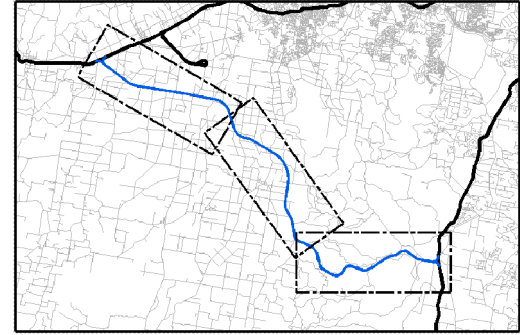
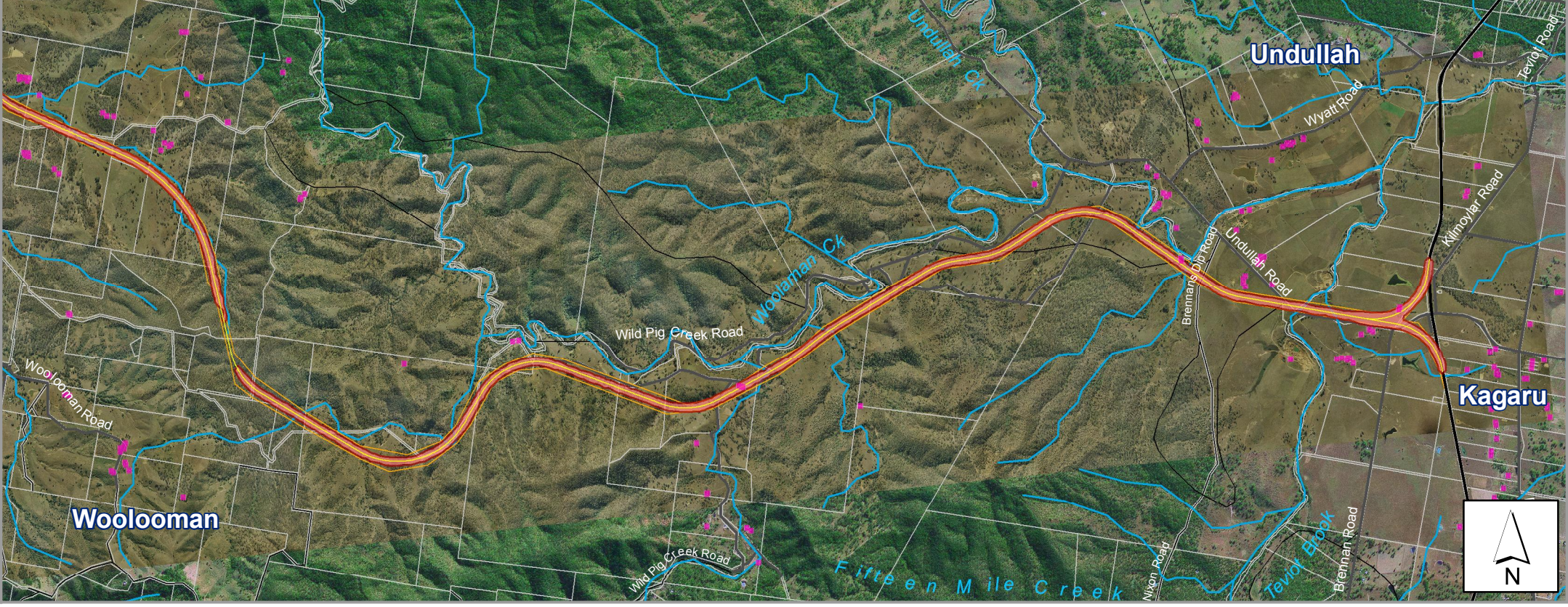
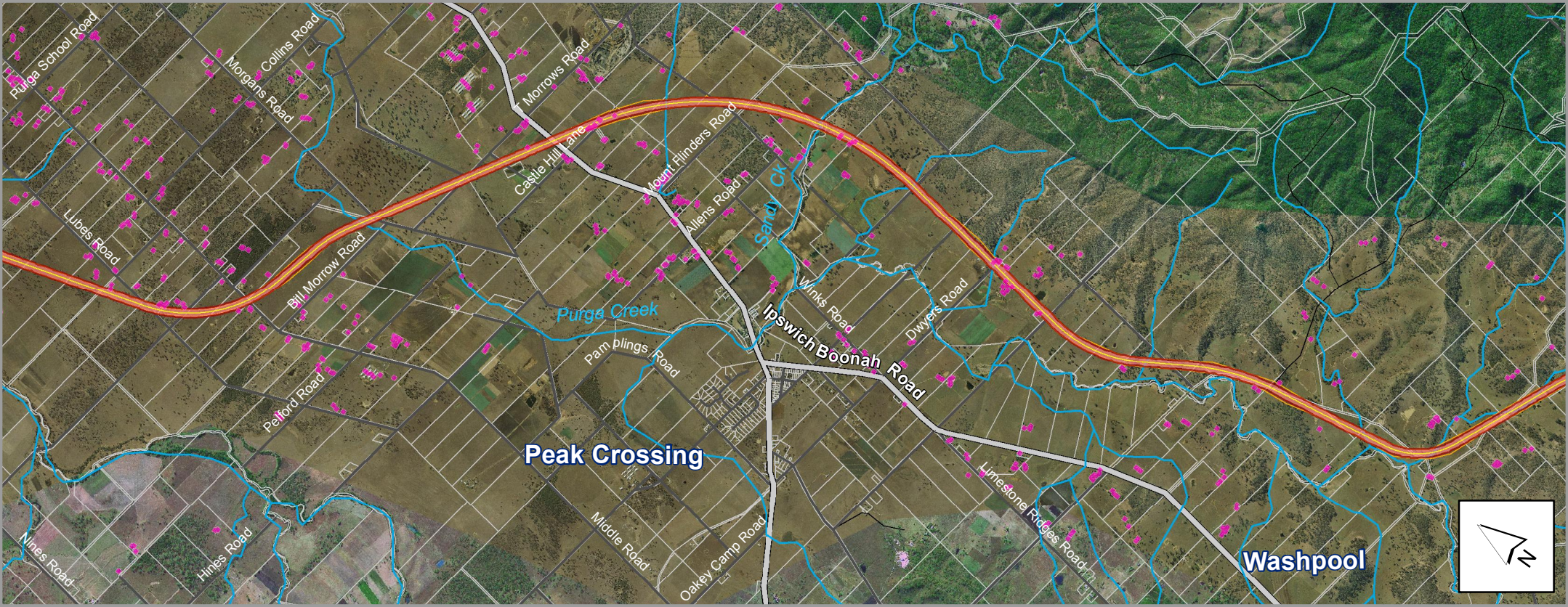
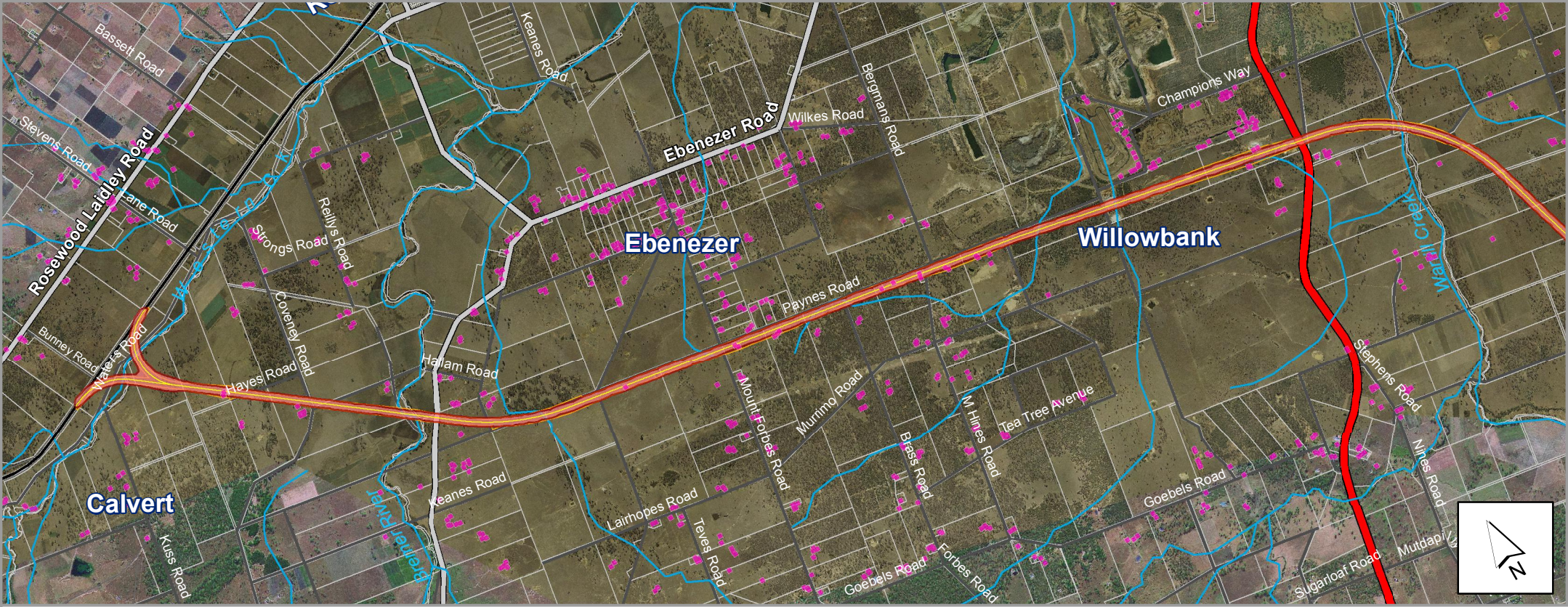


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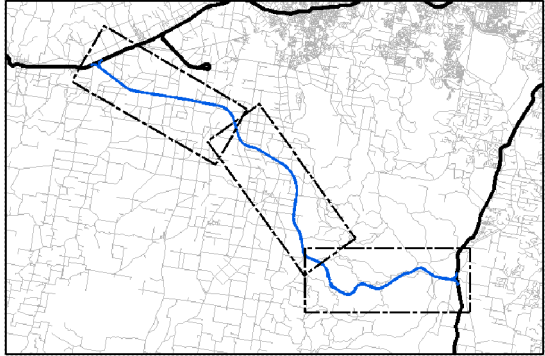
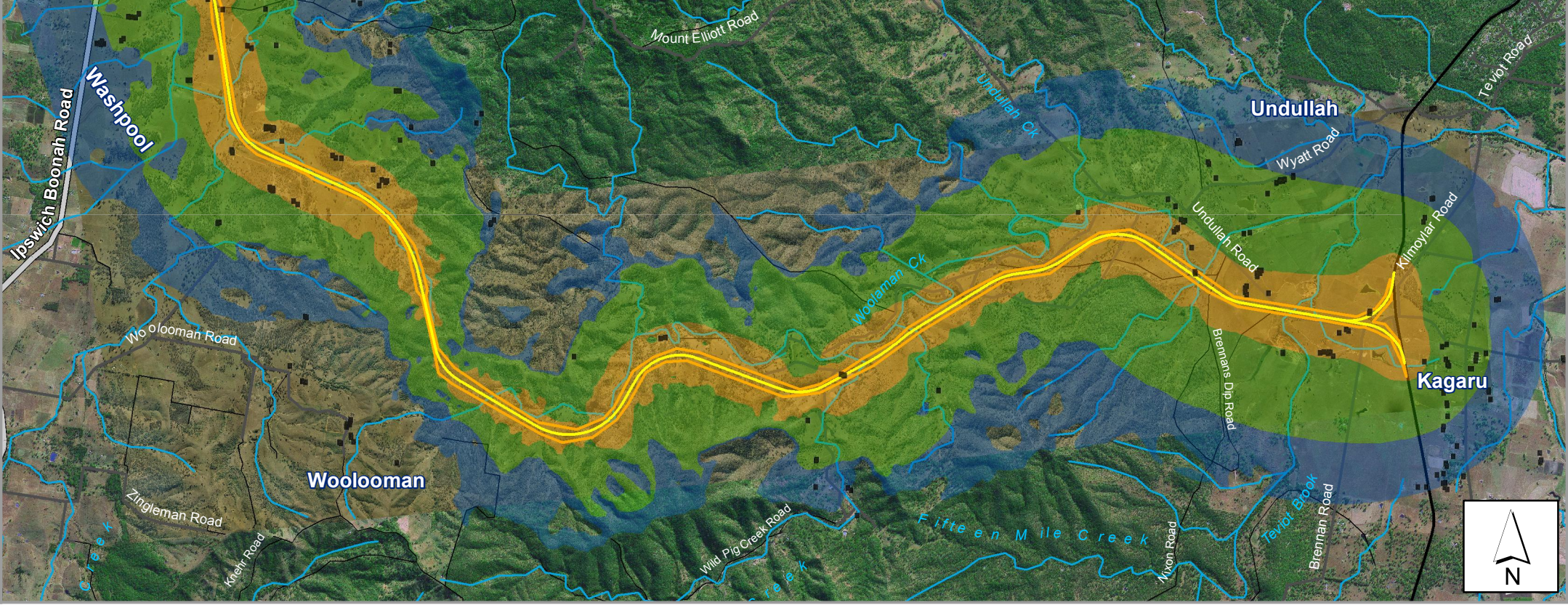
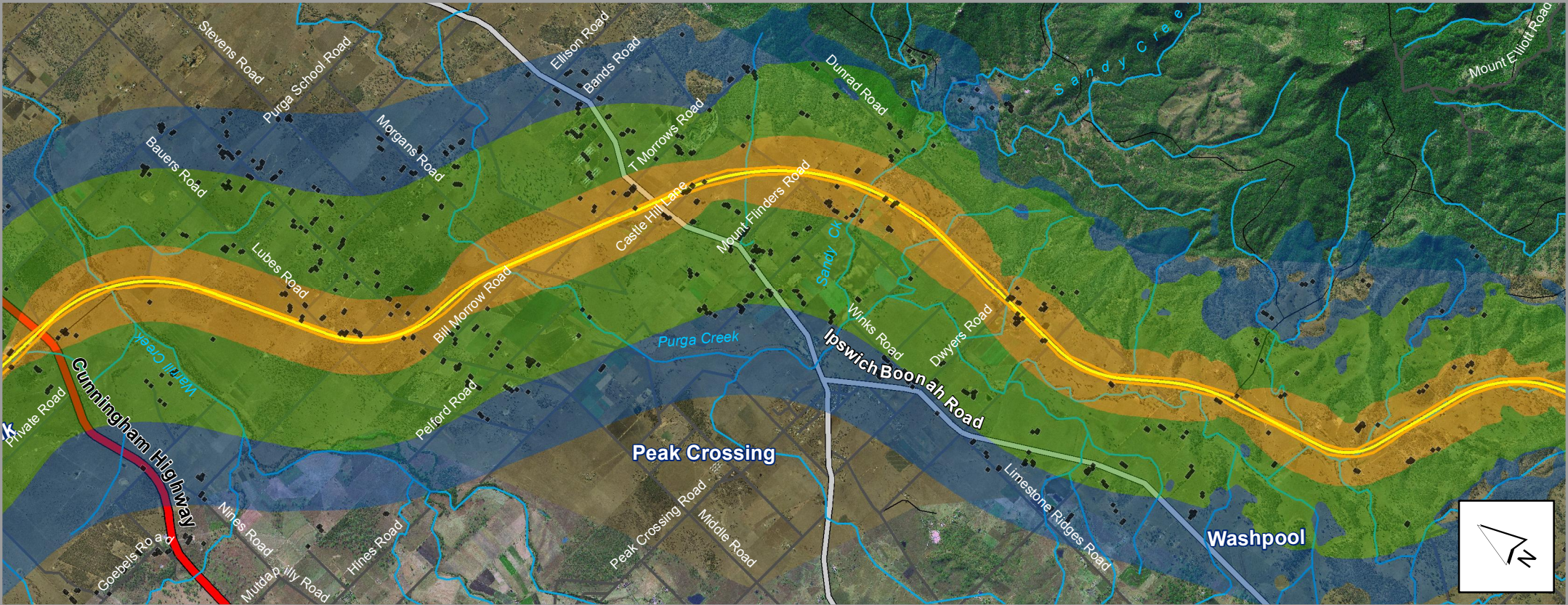
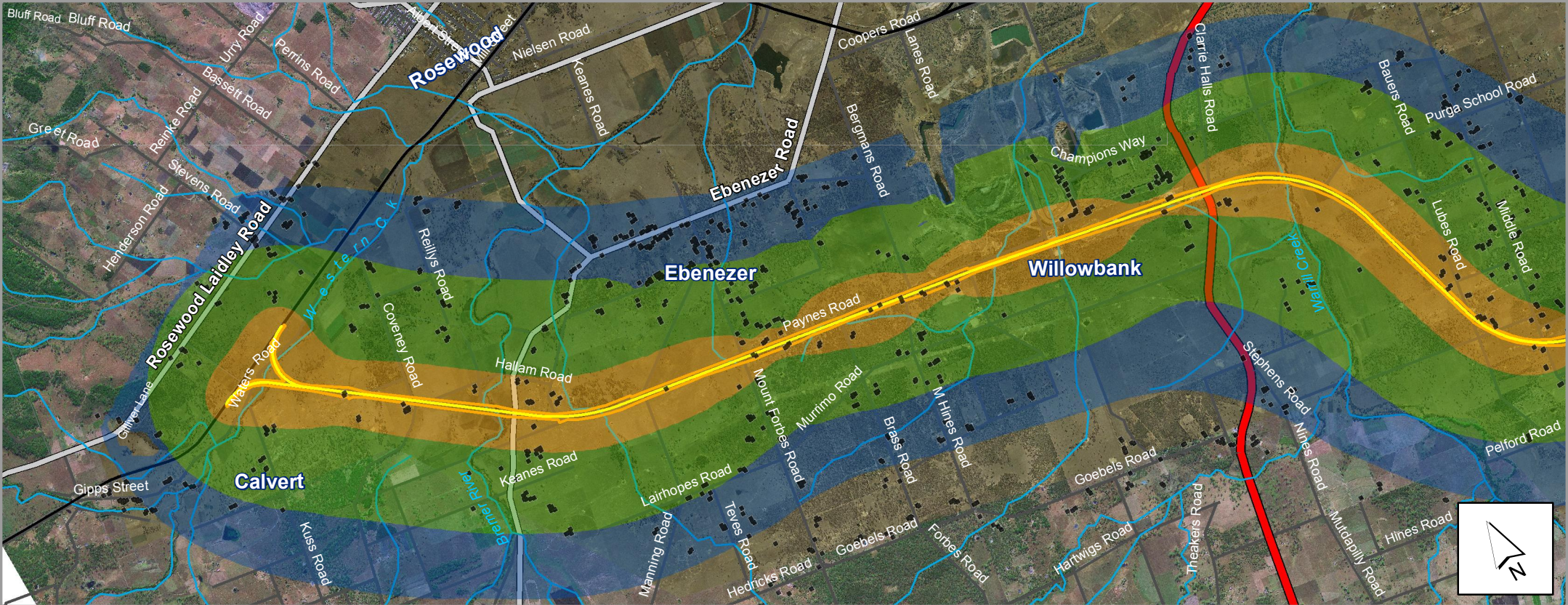
A3 size

Map 6.2









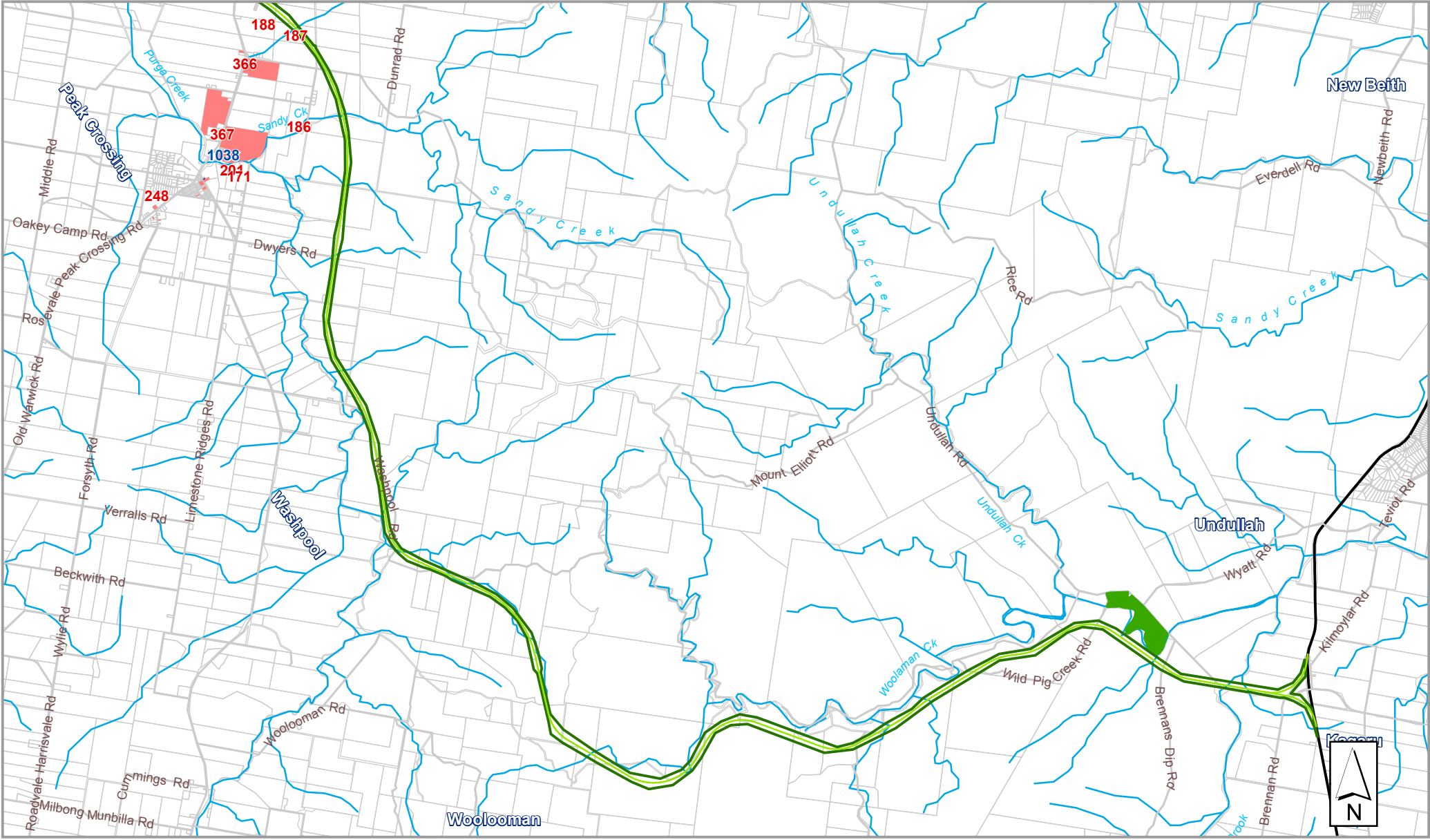
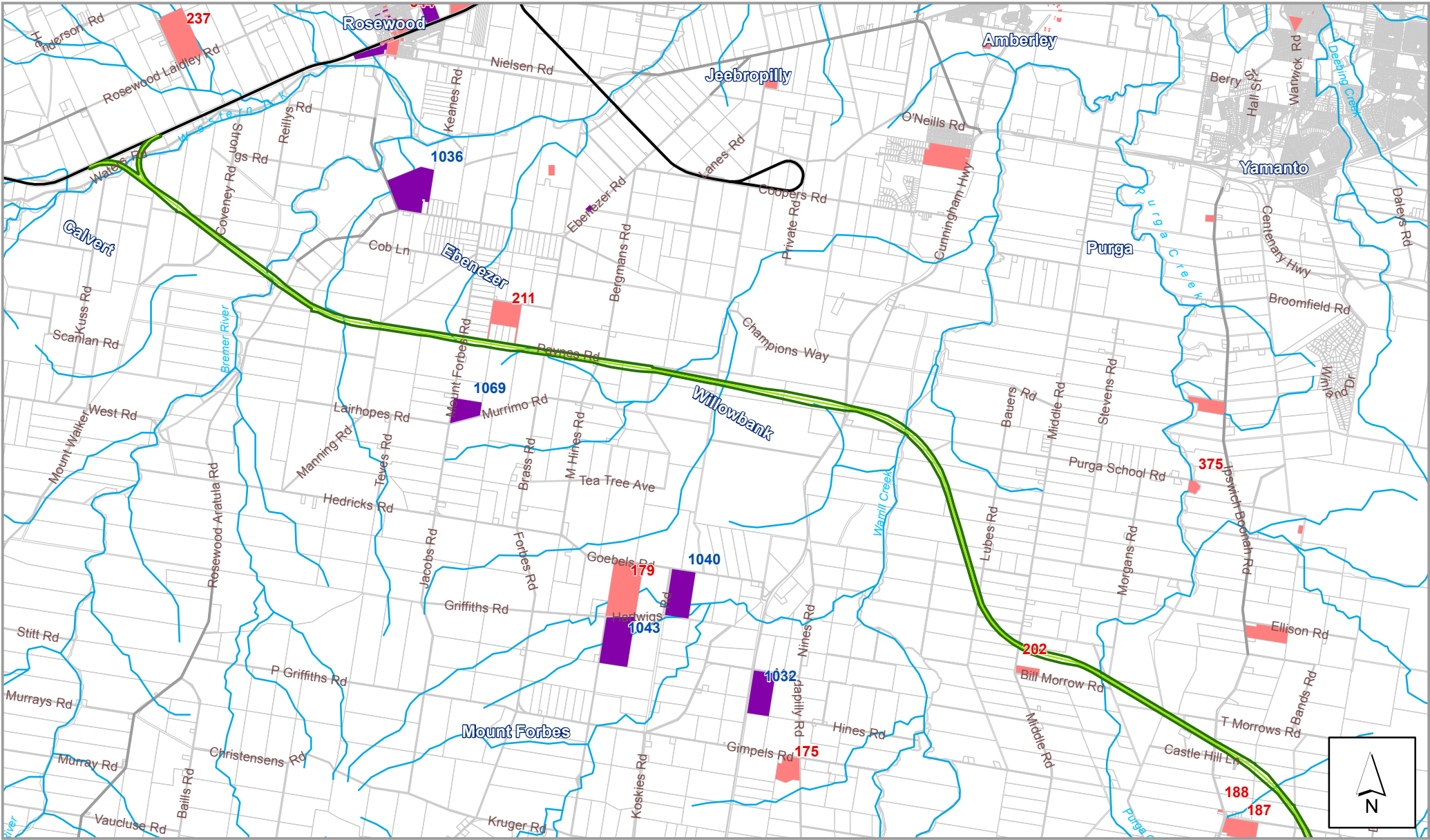
**Legend**

- Buildings
- Existing Rail
- Preliminary CID Boundary
- Revised Rail Alignment

**Noise Contours**

- Stage 1 Treatment
- Stage 2 Treatment
- Stage 3 Treatment





- Legend**
- Existing Rail
  - Revised Rail Alignment
  - Preliminary CID Boundary
  - ICC Identified Heritage Places
  - Undullah Station Homestead
  - ICC Misc Historic Heritage



**Southern Freight Rail Corridor Study  
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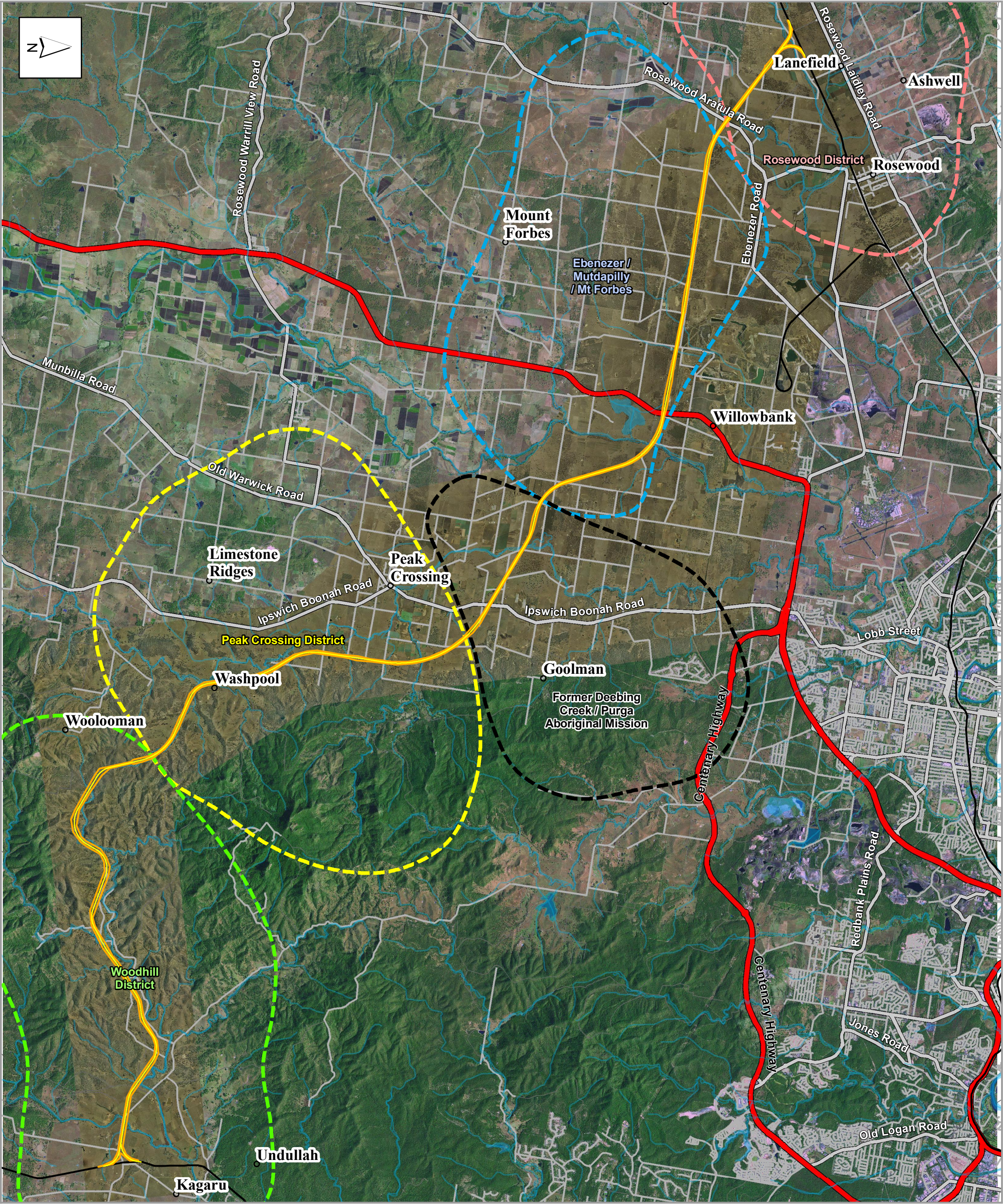
**European Cultural Heritage**



1:90,000 (when printed at A3)

A3 size Map 10.1





Legend

- Existing Rail
- Revised Rail Alignment
- Preliminary CID Boundary
- Historical Regions**
  - Rosewood District
  - Ebenezer / Mutdapilly / Mt Forbes
  - Former Deebing Creek / Purga Aboriginal Mission
  - Peak Crossing District
  - Woodhill District



Southern Freight Rail Corridor Study  
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European Cultural Heritage - Historical Regions

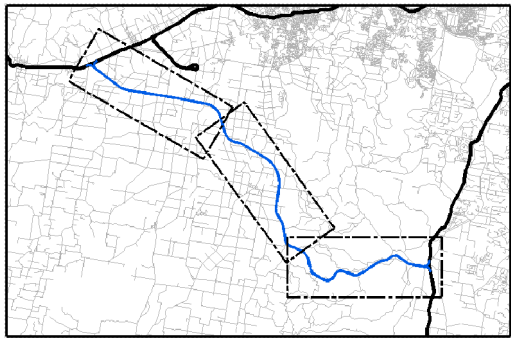
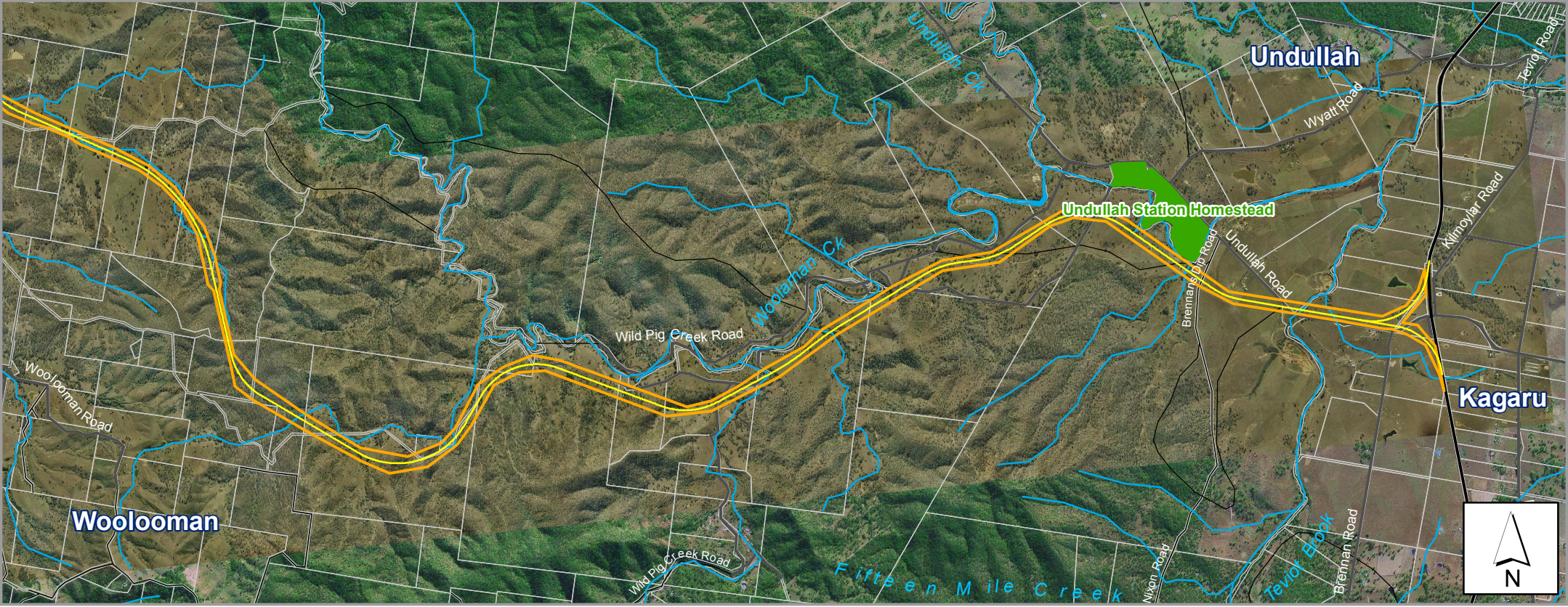
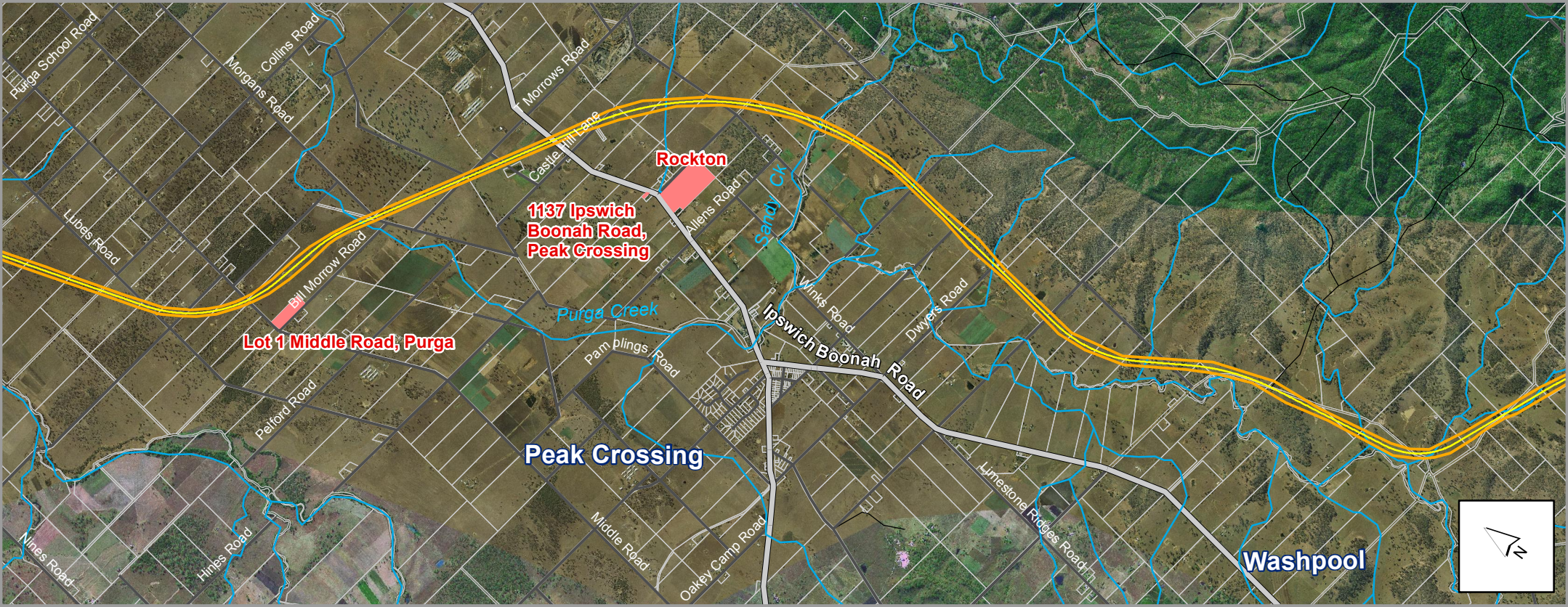
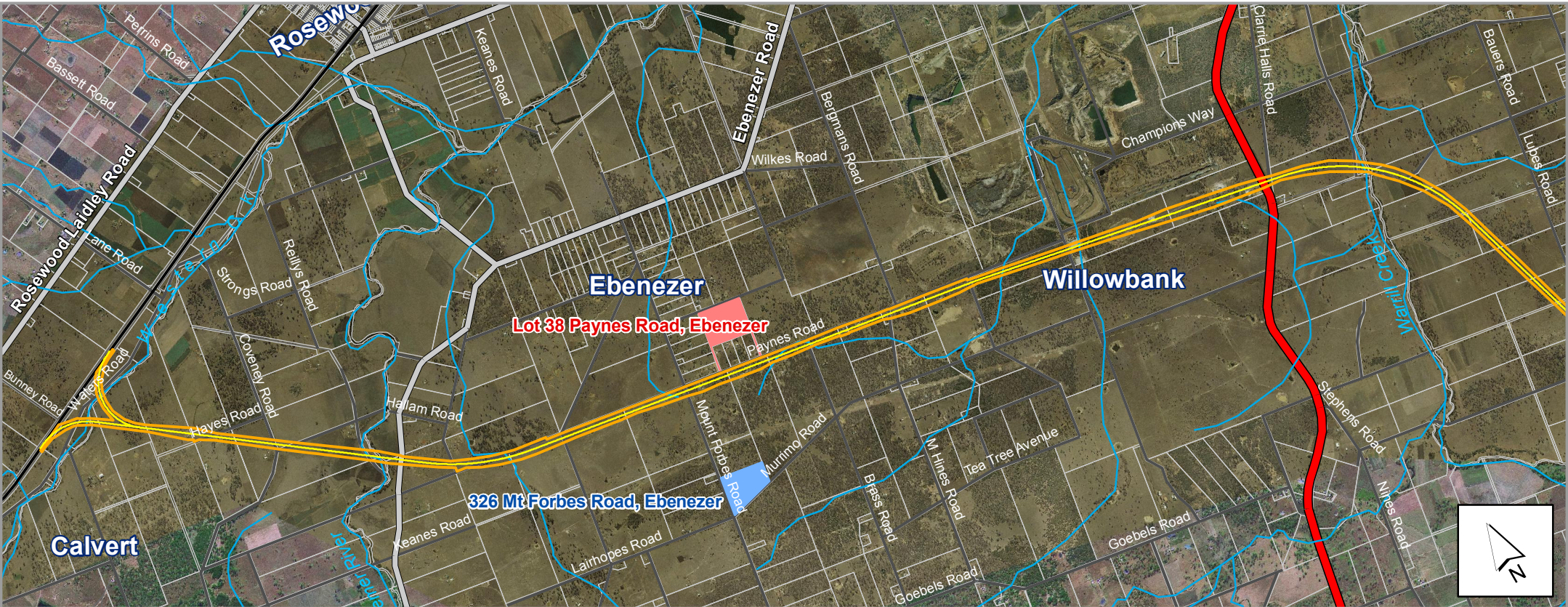


1:120,000 (when printed at A3)

A3 size

Map 10.2





- Legend**
- Existing Rail
  - Revised Rail Alignment
  - Preliminary CID Boundary
  - ICC Misc Historic Heritage Places
  - ICC Identified Heritage Places
  - Undullah Station Homestead



**Southern Freight Rail Corridor Study  
Revised Assessment Report**

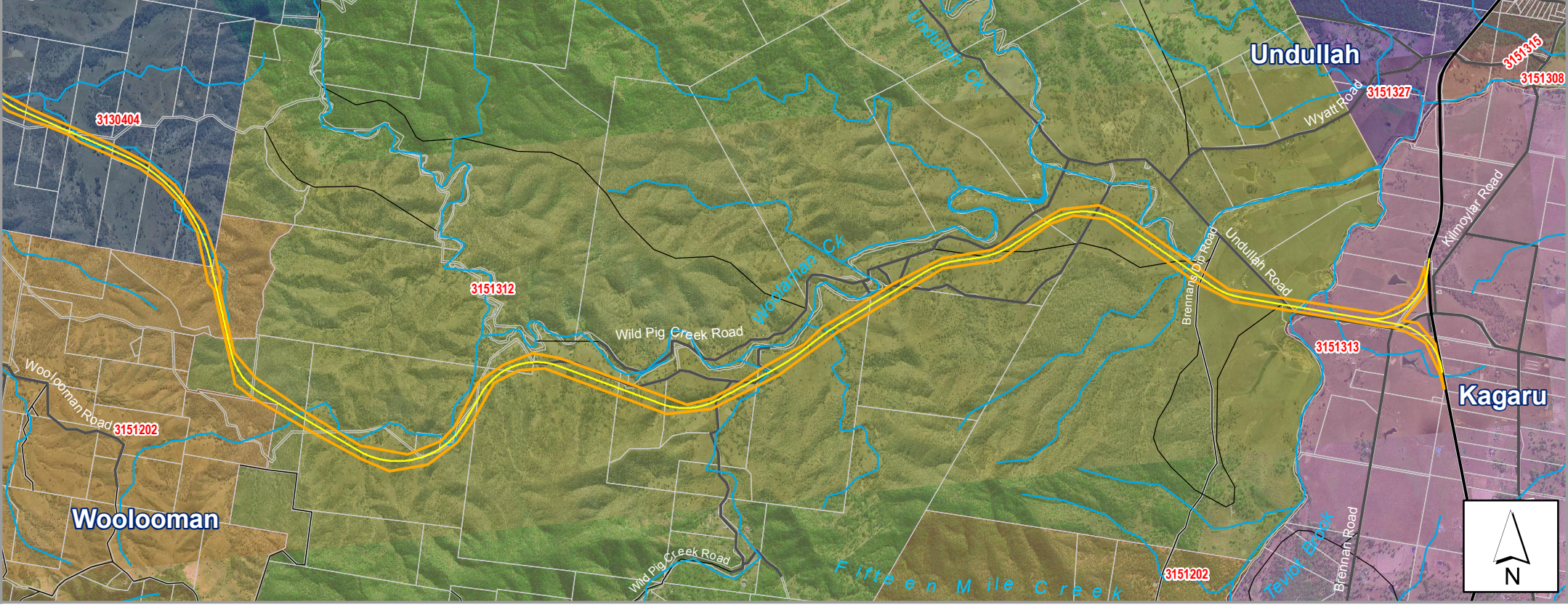
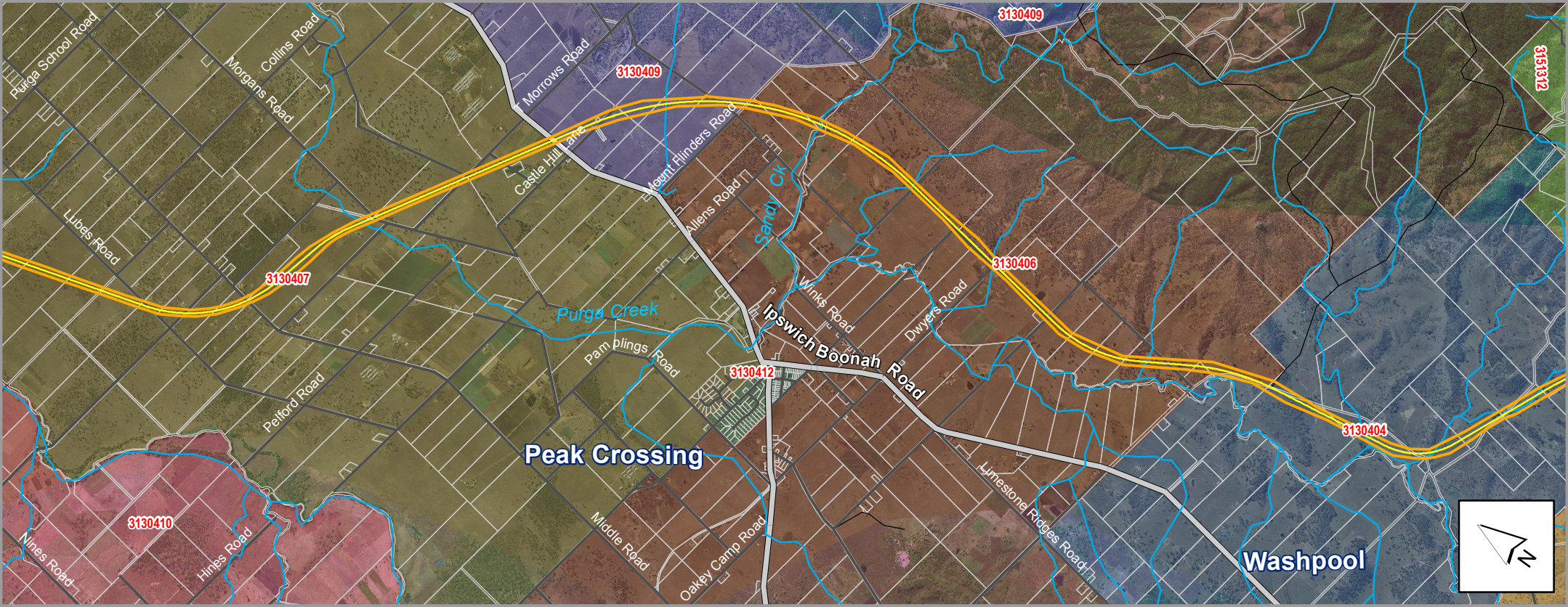
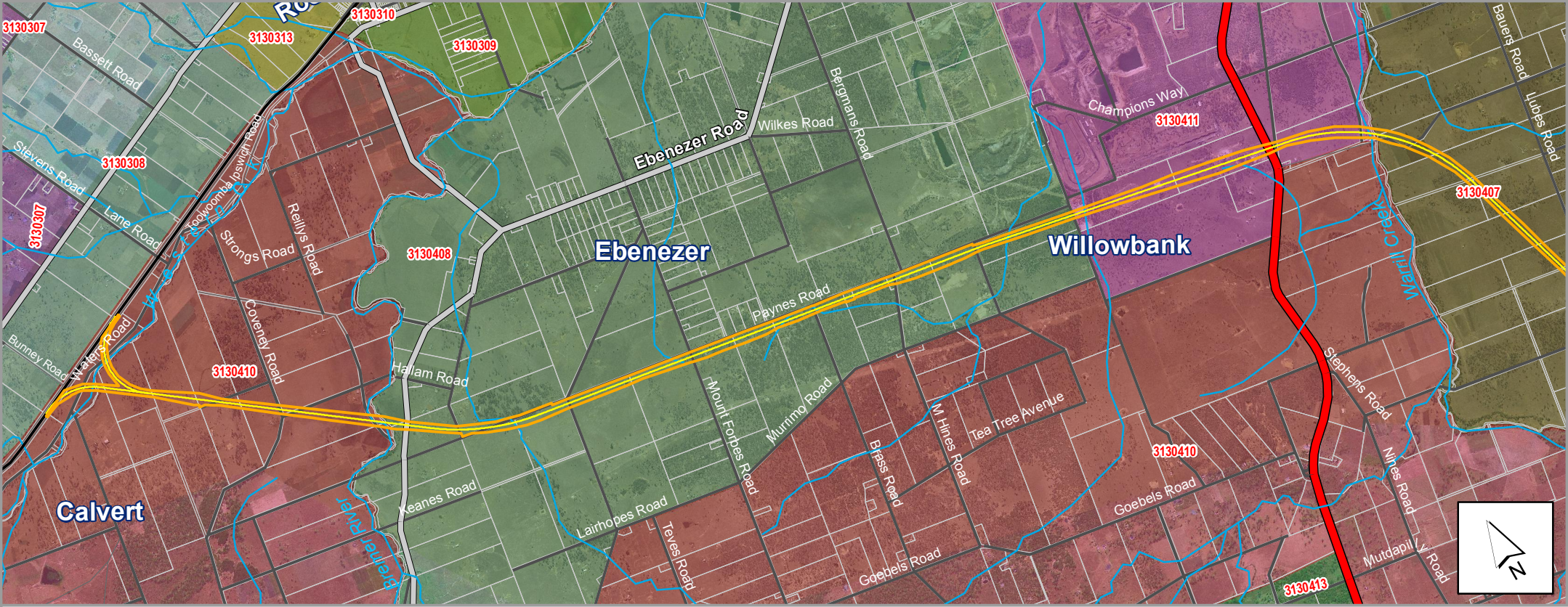
**European Cultural Heritage Places in  
Proximity to the Revised Alignment**



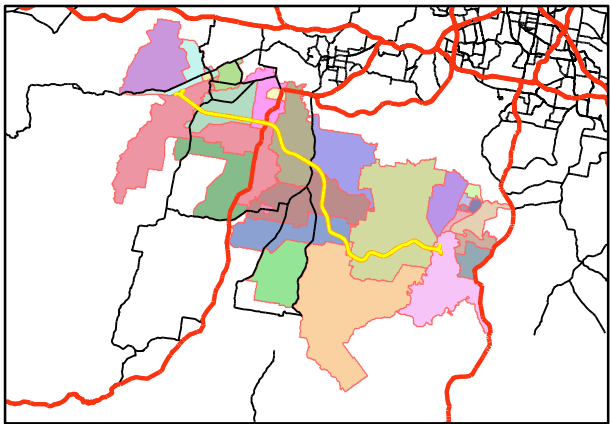
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A3 size Map 10.4





- Legend**
- Revised Rail Alignment
  - Existing Rail
  - Preliminary CID Boundary



**Southern Freight Rail Corridor Study  
Revised Assessment Report**

**ABS Census Collection Districts (CCDs)**

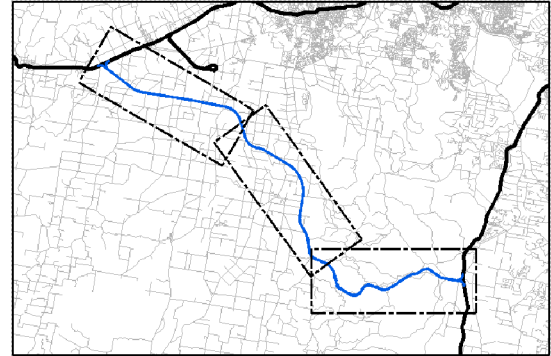
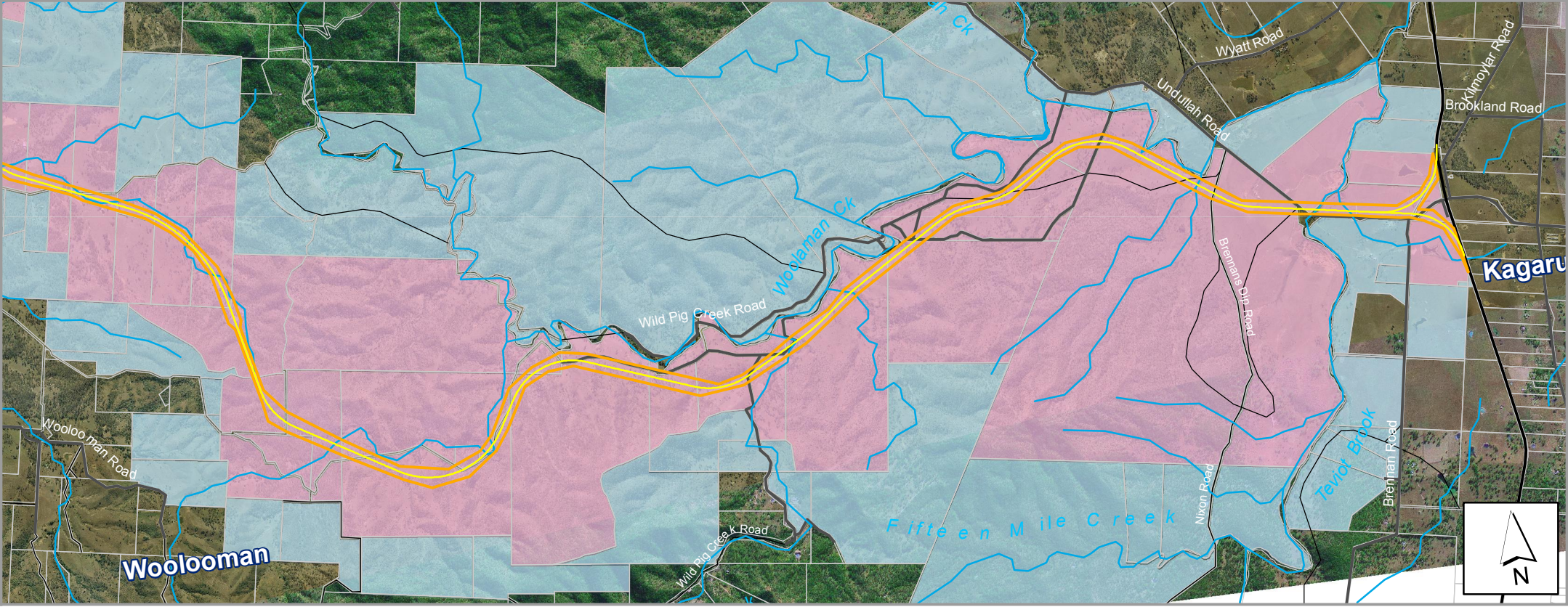
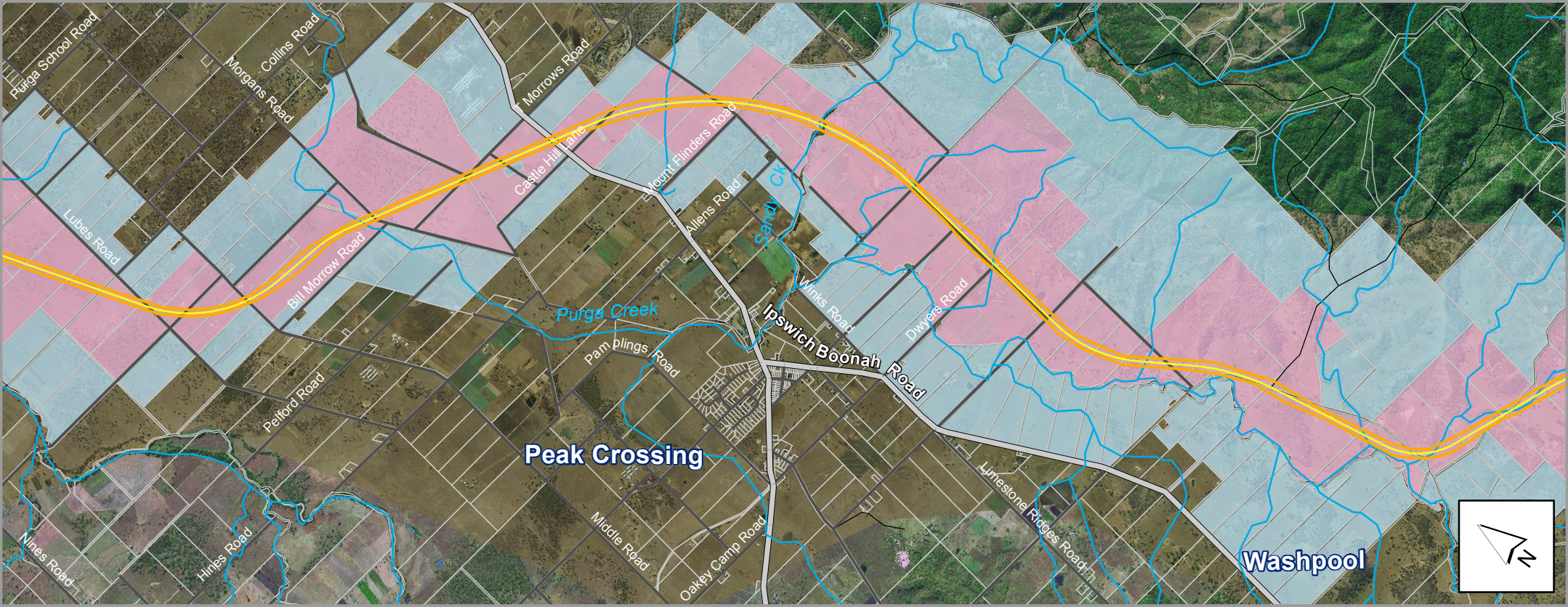
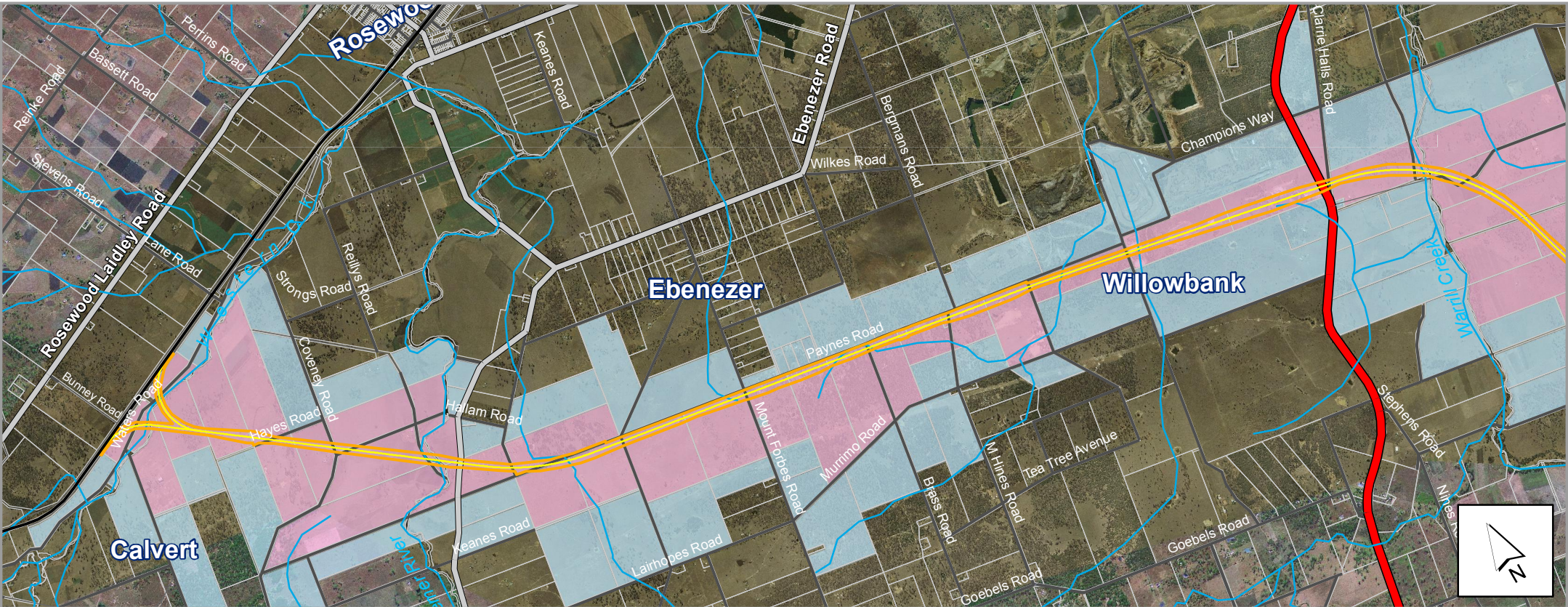
0 1 2 4  
Kilometres

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A3 size

Map 11.1





- Legend**
- Existing Rail
  - Revised Rail Alignment
  - Preliminary CID Boundary
  - Properties subject to land requirements for the project
  - Adjacent Properties

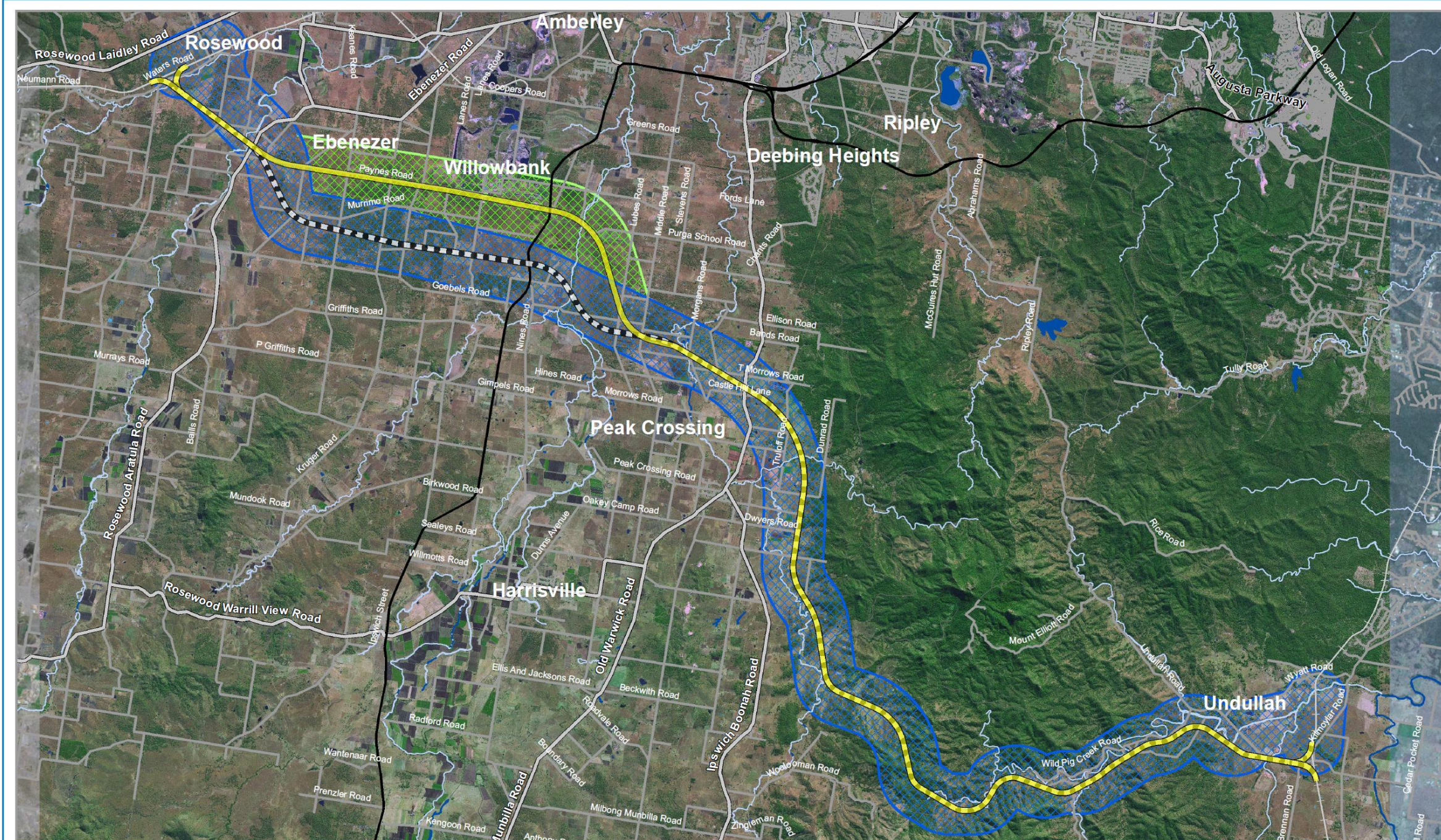
**Queensland Government**  
**Southern Freight Rail Corridor Study**  
**Revised Assessment Report**

**Affected and Adjacent Parcels**



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#### Legend

- Revised Alignment
- - - Centreline of Original Alignment
- Existing Railway
- ▨ Original Corridor of Interest
- ▨ Additional Area of Interest



0 2 4 8  
Kilometres

Date- March, 2009



Southern Freight Rail Corridor Study  
Revised Assessment Report

Alignment Overview

Figure 13

A3 size 1:120,000 (when printed at A3)

Figure 13 Previous alignment and revised alignment, showing original corridor of interest, and additional study area