



# ATTACHMENT 8

## SURAT GAS PROJECT

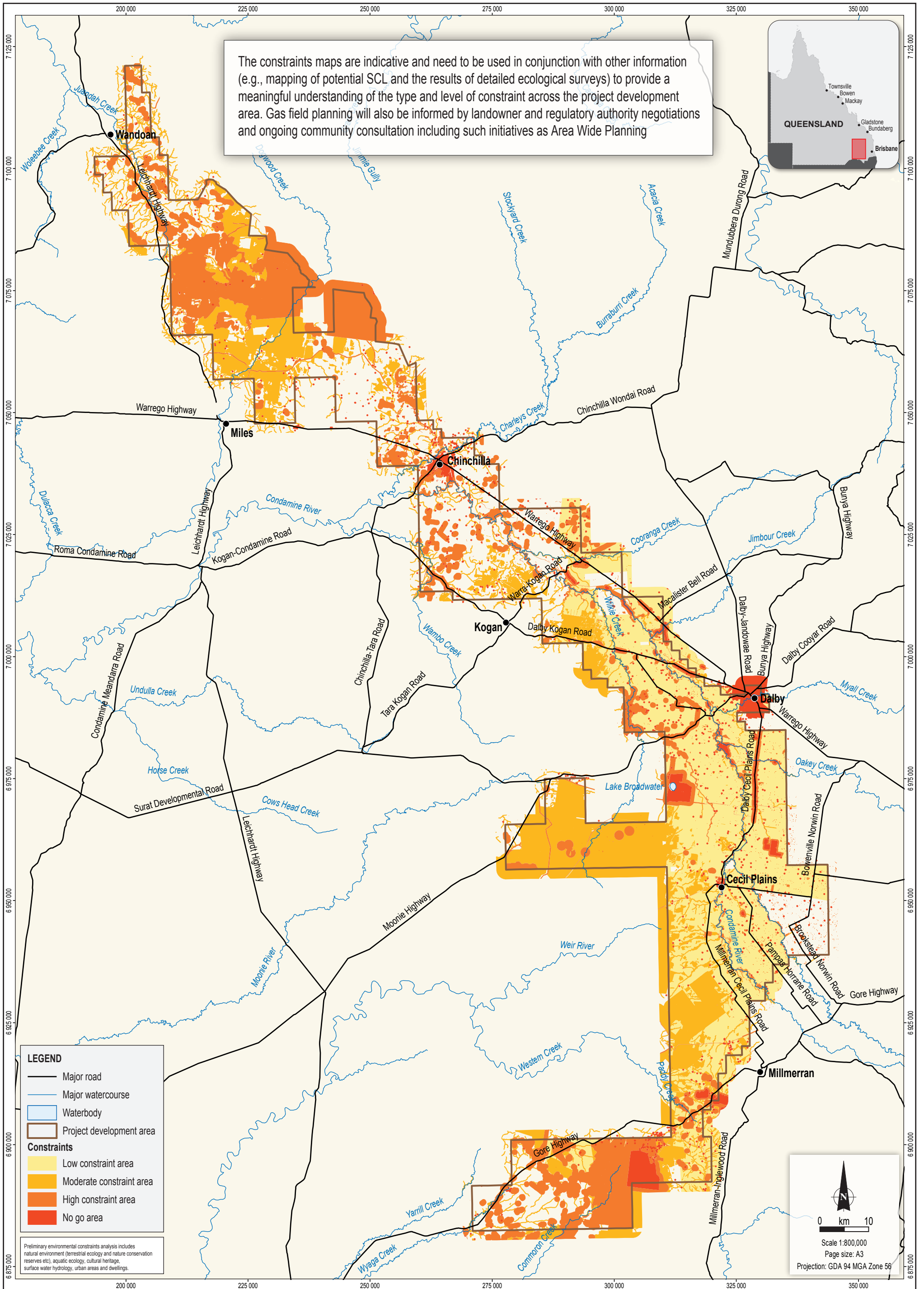
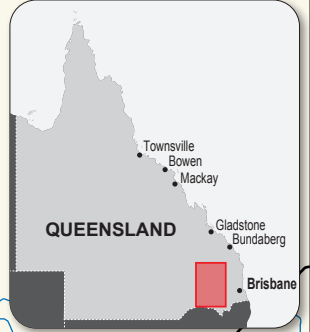
Constraints Mapping Update



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Project Director	Barton Napier		
Project Manager	Jessica Reid		
<b>Version:</b>	<b>Details:</b>	<b>Approved:</b>	<b>Date:</b>
CR 7040_12_Rev0	Draft to client	Barton Napier	June 2013
CR 7040_12_Rev1	Final to EHP	Barton Napier	June 2013

The constraints maps are indicative and need to be used in conjunction with other information (e.g., mapping of potential SCL and the results of detailed ecological surveys) to provide a meaningful understanding of the type and level of constraint across the project development area. Gas field planning will also be informed by landowner and regulatory authority negotiations and ongoing community consultation including such initiatives as Area Wide Planning



**LEGEND**

- Major road
- Major watercourse
- Waterbody
- Project development area

**Constraints**

- Low constraint area
- Moderate constraint area
- High constraint area
- No go area

Preliminary environmental constraints analysis includes natural environment (terrestrial ecology and nature conservation reserves etc), aquatic ecology, cultural heritage, surface water hydrology, urban areas and dwellings.

Scale 1:800,000  
Page size: A3  
Projection: GDA 94 MGA Zone 56

Source:  
Place names, roads and waterbodies from DERM.  
Major watercourses from GEODATA250k.  
Project development area from Arrow Energy.  
Constraints from Coffey Environments.

**coffey**  
environments

Date: 21.06.2013  
NEXT: 7040AE\_12\_GIS116\_v1\_2  
File Name: 7040\_12\_ATT08\_F08.01\_GIS\_JO

**Arrow Energy**  
Surat Gas Project

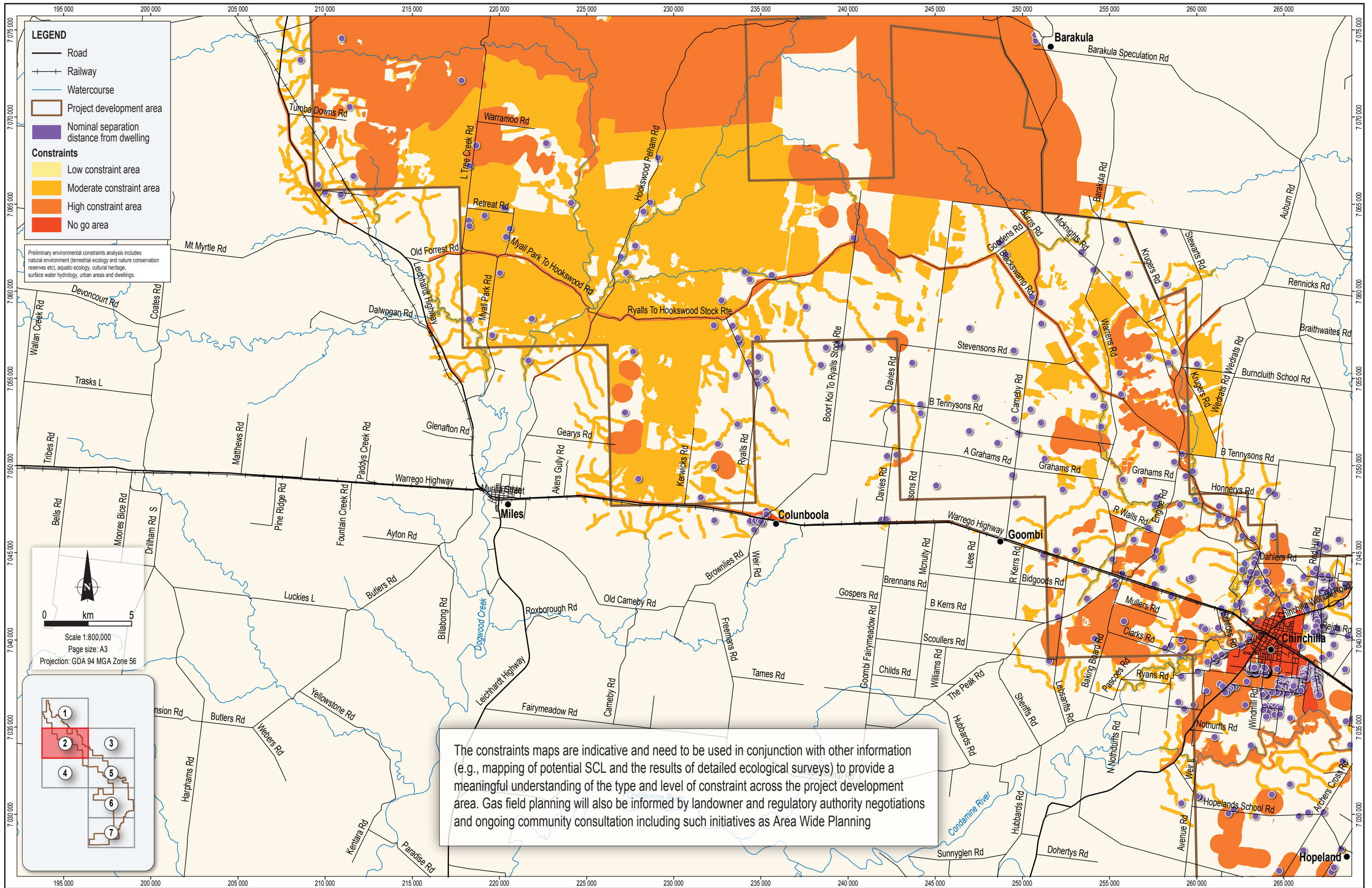
**arrow**  
energy  
go further

Revised EIS preliminary  
environmental constraints analysis

Figure No:  
**A8.1**







Source:  
Place names, roads and watercourses from DERM.  
Project development area from Arrow Energy.  
Constraints from Coffey Environments.

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environments

Date: 21.06.2013  
MXT: 7040AE\_12\_GIS118\_v1\_2  
File Name: 7040\_12\_ATT08\_F08.03\_GIS\_JO

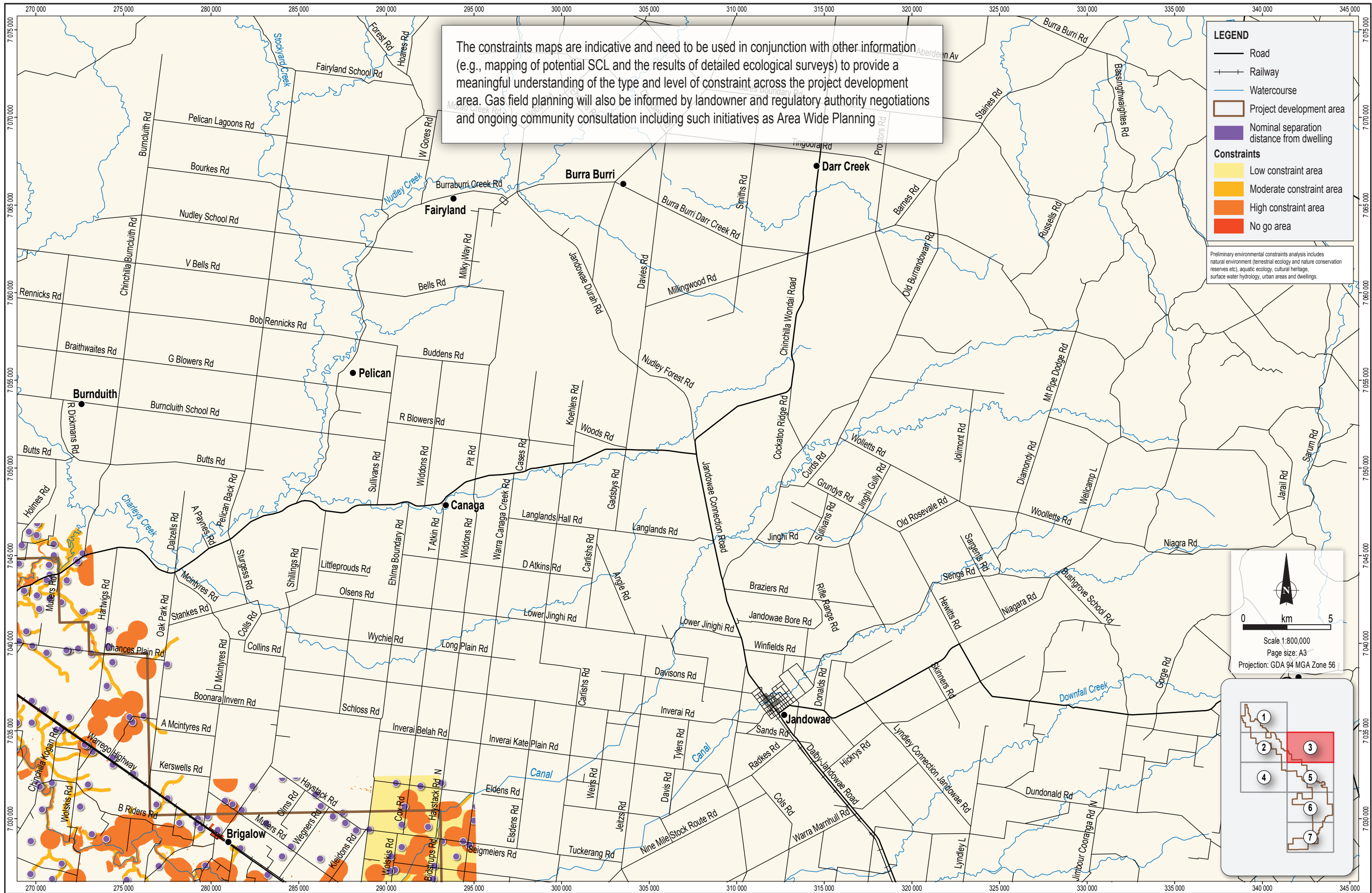
Arrow Energy  
Surat Gas Project

arrowenergy  
go further

Revised EIS preliminary environmental  
constraints analysis  
(map 2 of 7)

Figure No:  
**A8.3**





Source:  
Place names, roads and watercourses from DERM.  
Project development area from Arrow Energy.  
Constraints from Coffey Environments.

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environments  
Date: 21.06.2013  
MXT: 7040AE\_12\_GIS119\_v1\_2  
File Name: 7040\_12\_ATT08\_F08.04\_GIS\_JO

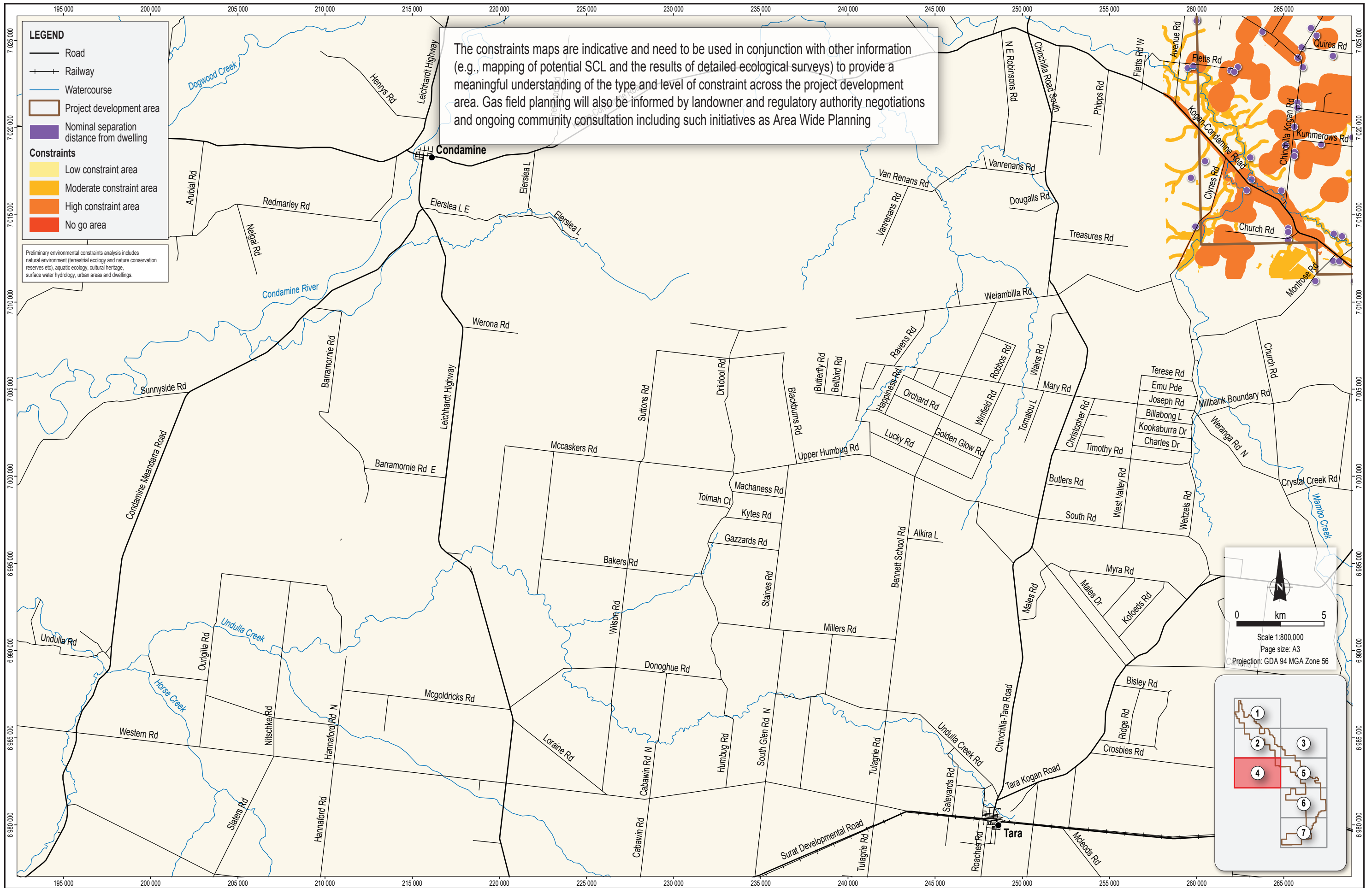
Arrow Energy  
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Revised EIS preliminary environmental  
constraints analysis  
(map 3 of 7)

Figure No:  
**A8.4**





The constraints maps are indicative and need to be used in conjunction with other information (e.g., mapping of potential SCL and the results of detailed ecological surveys) to provide a meaningful understanding of the type and level of constraint across the project development area. Gas field planning will also be informed by landowner and regulatory authority negotiations and ongoing community consultation including such initiatives as Area Wide Planning

**LEGEND**

- Road
- +— Railway
- Watercourse
- ▭ Project development area
- Nominal separation distance from dwelling

**Constraints**

- ▭ Low constraint area
- ▭ Moderate constraint area
- ▭ High constraint area
- ▭ No go area

Preliminary environmental constraints analysis includes natural environment (terrestrial ecology and nature conservation reserves etc), aquatic ecology, cultural heritage, surface water hydrology, urban areas and dwellings.

0 km 5

Scale 1:800,000  
Page size: A3  
Projection: GDA 94 MGA Zone 56

Source:  
Place names, roads and watercourses from DERM.  
Project development area from Arrow Energy.  
Constraints from Coffey Environments.

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Date: 21.06.2013  
MXT: 7040AE\_12\_GIS120\_v1\_2  
File Name: 7040\_12\_ATT08\_F08.05\_GIS\_JO

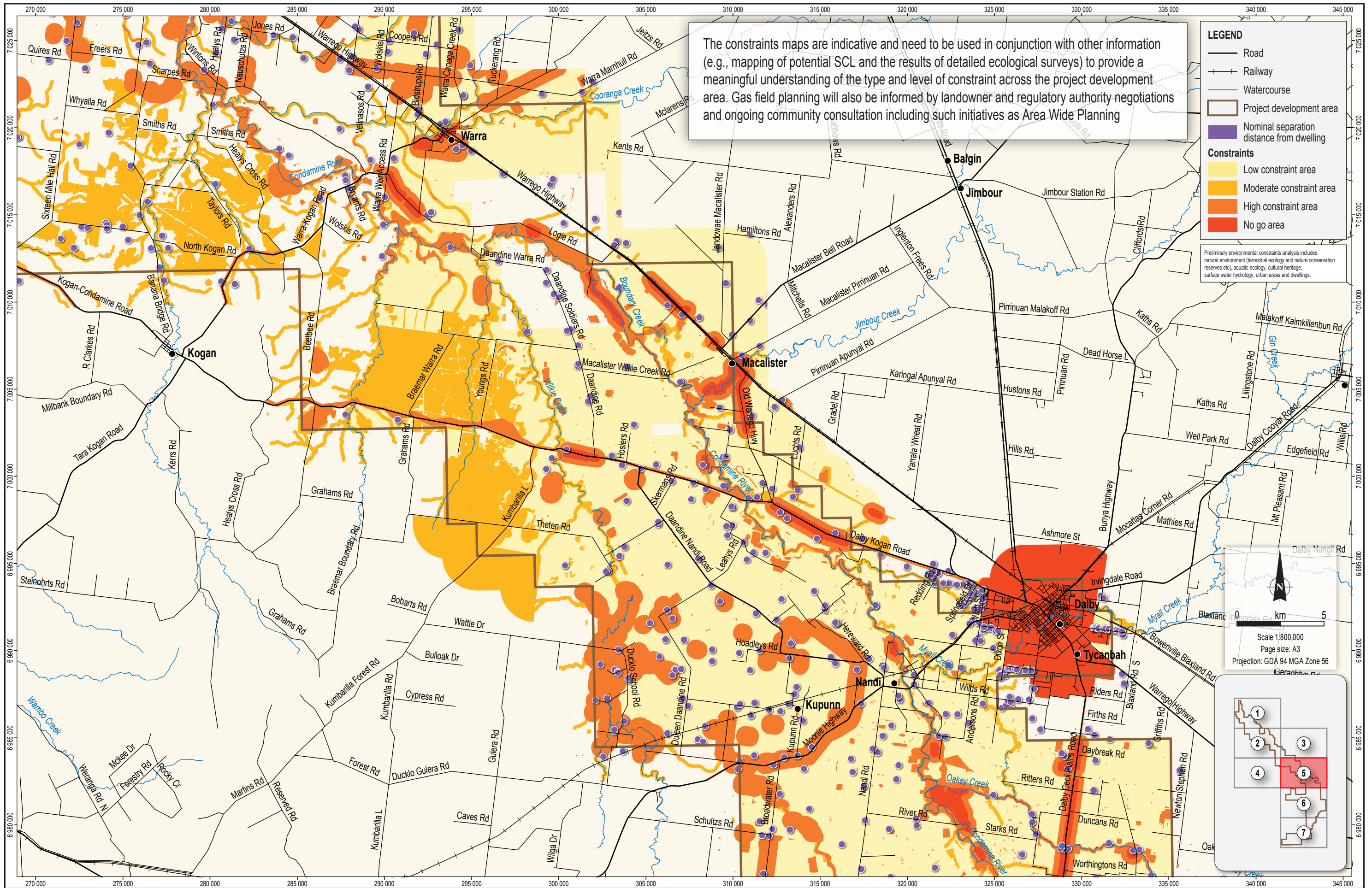
**Arrow Energy**  
Surat Gas Project

**arrowenergy**  
go further

Revised EIS preliminary environmental  
constraints analysis  
(map 4 of 7)

Figure No:  
**A8.5**





The constraints maps are indicative and need to be used in conjunction with other information (e.g., mapping of potential SCL and the results of detailed ecological surveys) to provide a meaningful understanding of the type and level of constraint across the project development area. Gas field planning will also be informed by landowner and regulatory authority negotiations and ongoing community consultation including such initiatives as Area Wide Planning

**LEGEND**

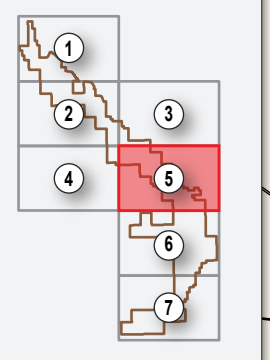
- Road
- +— Railway
- Watercourse
- ▭ Project development area
- Nominal separation distance from dwelling

**Constraints**

- Low constraint area
- Moderate constraint area
- High constraint area
- No go area

Preliminary environmental constraints analysis includes natural environment (terrestrial ecology and nature conservation reserves etc), aquatic ecology, cultural heritage, surface water hydrology, urban areas and dwellings.

Scale 1:800,000  
Page size: A3  
Projection: GDA 94 MGA Zone 56



Source:  
Place names, roads and watercourses from DERM.  
Project development area from Arrow Energy.  
Constraints from Coffey Environments.

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Date: 21.06.2013  
MXT: 7040AE\_12\_GIS121\_v1\_2  
File Name: 7040\_12\_ATT08\_F08.06\_GIS\_JO

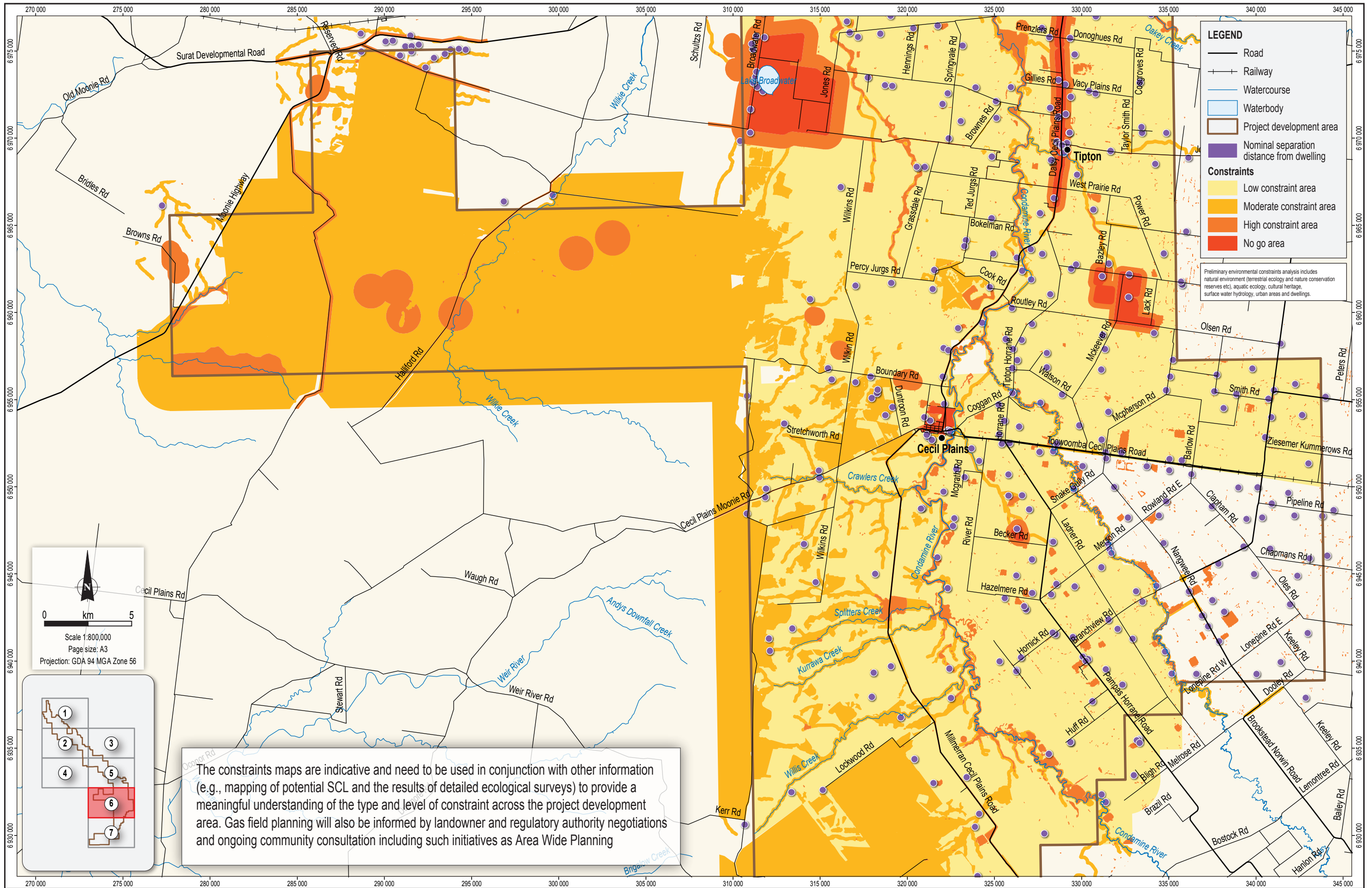
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Revised EIS preliminary environmental constraints analysis (map 5 of 7)

Figure No: **A8.6**





**LEGEND**

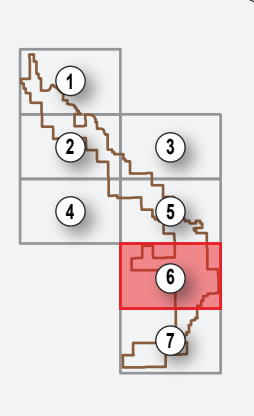
- Road
- +— Railway
- Watercourse
- Waterbody
- Project development area
- Nominal separation distance from dwelling

**Constraints**

- Low constraint area
- Moderate constraint area
- High constraint area
- No go area

Preliminary environmental constraints analysis includes natural environment (terrestrial ecology and nature conservation reserves etc), aquatic ecology, cultural heritage, surface water hydrology, urban areas and dwellings.

Scale 1:800,000  
Page size: A3  
Projection: GDA 94 MGA Zone 56



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Source:  
Place names, roads, watercourses and waterbodies from DERM.  
Project development area from Arrow Energy.  
Constraints from Coffey Environments.

The constraints maps are indicative and need to be used in conjunction with other information (e.g., mapping of potential SCL and the results of detailed ecological surveys) to provide a meaningful understanding of the type and level of constraint across the project development area. Gas field planning will also be informed by landowner and regulatory authority negotiations and ongoing community consultation including such initiatives as Area Wide Planning

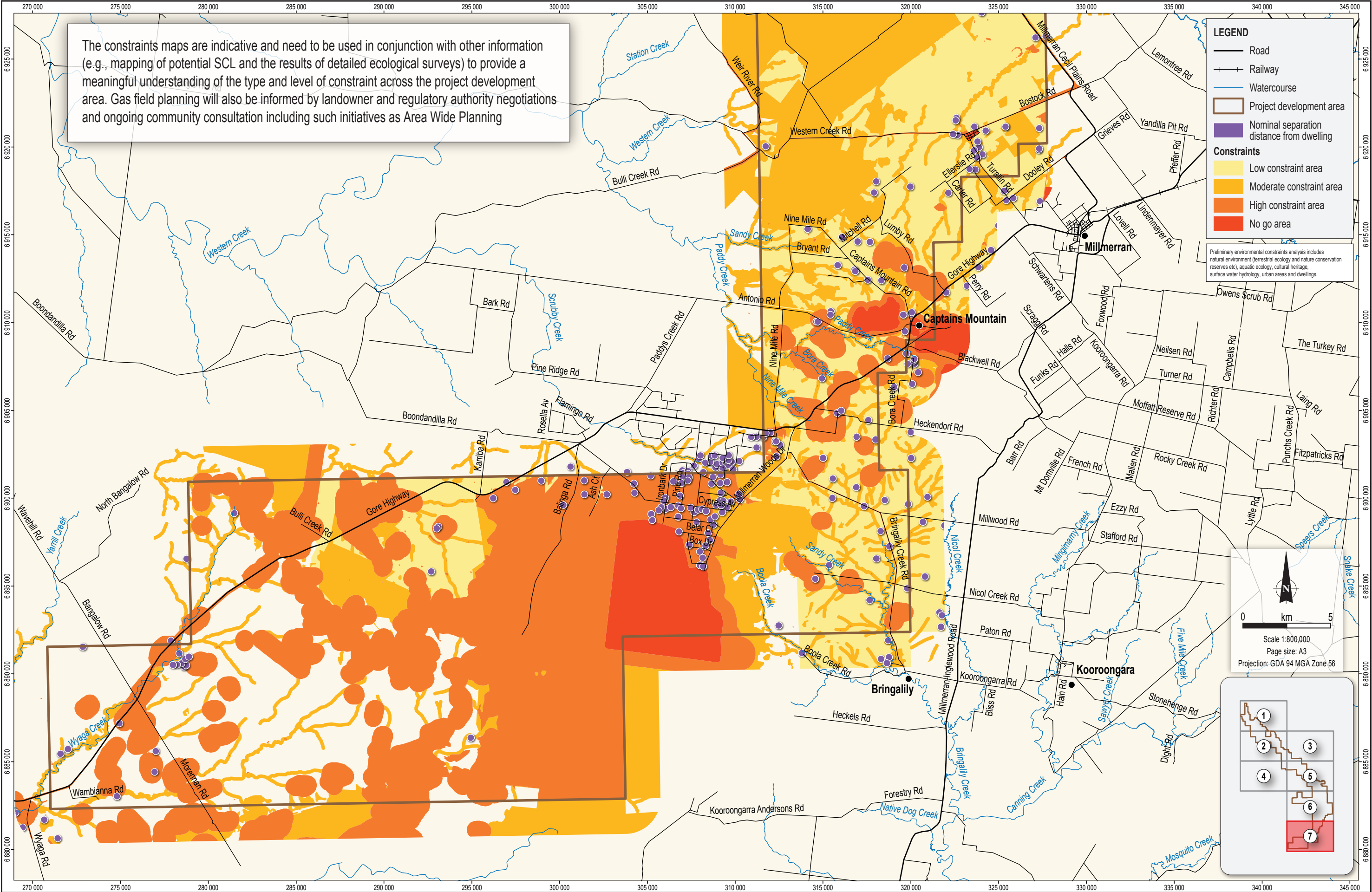
**LEGEND**

- Road
- Railway
- Watercourse
- Project development area
- Nominal separation distance from dwelling

**Constraints**

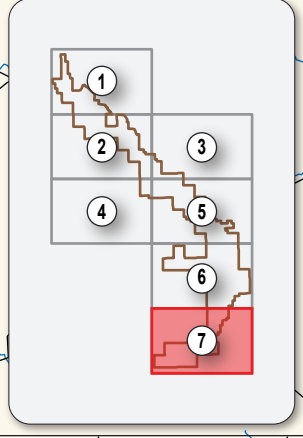
- Low constraint area
- Moderate constraint area
- High constraint area
- No go area

Preliminary environmental constraints analysis includes natural environment (terrestrial ecology and nature conservation reserves etc), aquatic ecology, cultural heritage, surface water hydrology, urban areas and dwellings.



0 km 5

Scale 1:800,000  
Page size: A3  
Projection: GDA 94 MGA Zone 56



Source:  
Place names, roads and watercourses from DERM.  
Project development area from Arrow Energy.  
Constraints from Coffey Environments.

coffey environments

Date: 21.06.2013  
MXT: 7040AE\_12\_GIS123\_v1\_2  
File Name: 7040\_12\_ATT08\_F08.08\_GIS\_JO

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Revised EIS preliminary environmental constraints analysis (map 7 of 7)

Figure No: A8.8





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