

# Regional Water Strategies Public Exhibition 2



## Submission Questionnaire

### Macquarie-Castlereagh Regional Water Strategy Challenges and shortlisted actions

The NSW Government is taking action to improve long-term water security for Macquarie-Castlereagh. The Macquarie-Castlereagh Regional Water Strategy sets out a shortlist of proposed actions to help deliver healthy and resilient water resources for a liveable and prosperous region.

#### Your voice is important

This is your opportunity to let us know which actions you support and think should be implemented to help set the region up for the future.

This questionnaire will take approximately 15 minutes to complete, and your response can remain anonymous if you wish (see question 7).

Questions marked with an asterisk (\*) require an answer.

If you have any questions about the questionnaire, please email: [regionalwater.strategies@dpie.nsw.gov.au](mailto:regionalwater.strategies@dpie.nsw.gov.au)

You can also provide feedback via [our submission platform](#).

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### 1. Your details

\* Email address:

\* Name:

\* Address:

\* Contact phone

\* **Do you identify as an Aboriginal person?** (select one)

Yes     No     Choose not to answer

\* **Are you making this submission as an individual or as a representative of an organisation?** (select one)

Individual     Organisation

## 2. Organisation or business details

**If making this submission as a representative of an organisation, who do you represent?** (select one)

**Government** (select one)

- Commonwealth     New South Wales     State other     Local
- Local Water Utility

**Peak representative organisation** (select one)

- Environment     Industry     Business group or business chamber     Community

**Aboriginal organisation** (select one)

- Yes     No

**Other** (select and provide details)

- N/A

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## 3. Regional water challenges

We have identified **five water challenges** that are most important to address in the Macquarie-Castlereagh region. More detail about each regional challenge is available in the Consultation Paper.

### 1 Reducing water supply risks for regional cities, towns and villages

Bathurst, Orange and Dubbo are large and growing regional cities in the Macquarie valley. These cities are expected to grow by 20–30% over the next 20 years. The water supplies for these cities also underpin the water security of surrounding smaller towns and communities during times of drought.

Even with recent investments in water security measures, Bathurst and Orange require further immediate investment over the next few years to ensure the security of their water supplies is maintained.

Groundwater is an important water source for towns in the region, being the primary source of supply for many towns and an important backup source for others. There is uncertainty about water security in severe drought for towns that use groundwater, especially from the alluvial groundwater systems.

## 2 Supplying water to high priority needs in the lower river system and connected valleys

The Macquarie River system is over 960km long and there are a range of high priority needs towards the end of the system, including:

- the towns of Warren, Nyngan and Cobar
- internationally significant Macquarie Marshes
- critical mineral mines
- landholders on rivers and creeks with stock and domestic water needs
- flows into the Barwon-Darling River that support communities, industries and the environment downstream

The long river system presents challenges for delivering water to the end of the system, particularly during dry periods, as a large portion of the water released from Burrendong Dam seeps into the dry riverbed and evaporates along the way.

A more variable and potentially drier climate will make it even more difficult to meet high priority needs towards the end of the river system, especially during dry periods.

## 3 Supporting a growing regional economy in a future of potentially reduced water availability

Agriculture and mining are major water-reliant industries in the Macquarie-Castlereagh region. The tourist economy is also important in the region's east and includes well-known food and wine destinations. Climate change could reduce water availability for these existing industries, leading to adverse economic and social impacts. While there is also significant potential for future development in high value industries, a shortage of reliable water supplies may hinder this growth.

## 4 Addressing barriers to Aboriginal water rights

The lands and waters of the Macquarie-Castlereagh region have been occupied by the Wiradjuri, Gomeroi, Ngemba, Wailwan and Ngiyamapaa Nations for over 60,000 years. They have always been closely linked to rivers, groundwater, billabongs and wetlands, and this relationship is essential to culture, community and connection to Country.

Water management arrangements, limited water ownership, and poor access to waterways and culturally important sites impact Aboriginal people's ability to care for Country. We need to support access to water improve our engagement with Aboriginal people, and secure flows for water dependent cultural sites—so we can all benefit from traditional knowledge in managing our water resources.

## 5 Maintaining and improving the health and resilience of the region's aquatic and floodplains ecosystems

Water infrastructure, water extraction, land management practices, and pest species have impacted water-dependent ecosystems and native species in the Macquarie-Castlereagh region. This includes the internationally Ramsar-listed Macquarie Marshes, which is ecologically, culturally, socially and economically important.

While water reforms have partially improved the condition and resilience of these environmental assets, there are parts of the catchment that are still in poor condition.

To maintain and improve the region's ecological assets into the future, we need to ensure that the right mix of flows are available at the times that they need them. This will become increasingly difficult under a drier future climate, where the potential for extended dry periods could increase the risk for many critical environmental assets.

**Do you agree that these are the priority water challenges for the Macquarie-Castlereagh region that we need to focus on?** (select one)

- Yes     No

**If no, please outline what you see as the priority water challenges in this region over the next 20 – 40 years?**

## 4. Addressing the challenges

We have developed three regional priorities with actions under each. We want to know which of the actions you support.

The regional priorities are:

- 1 Secure water supplies for growing regional cities and towns
- 2 Reduce water security risks in the region’s west
- 3 Supporting industry and community climate adaptation
- 4 Best use of existing water for the environment

### Priority 1: Secure water supplies for growing regional cities and towns

The actions shortlisted under this priority aim to:

- make better use of the available resources
- respond to the needs of a growing population
- respond to the risks associated with climate variability and change.

Proposed action		Do you support this action?
1.1	Confirm the level of water security needed to support regional cities	<input checked="" type="radio"/> Yes <input type="radio"/> No
1.2	Establish a governance framework to coordinate actions under Priority 1	<input checked="" type="radio"/> Yes <input type="radio"/> No
1.3	Develop guidelines for managing extreme events in the upper Macquarie	<input checked="" type="radio"/> Yes <input type="radio"/> No
1.4	Adopt a stronger focus on urban water conservation and efficiency	<input checked="" type="radio"/> Yes <input type="radio"/> No
1.5	Invest in innovative water supply options	<input checked="" type="radio"/> Yes <input type="radio"/> No
1.6	Plan for the best long-term augmentation solution for the upper Macquarie	<input checked="" type="radio"/> Yes <input type="radio"/> No
1.7	Reduce uncertainty in groundwater security for the region’s towns	<input checked="" type="radio"/> Yes <input type="radio"/> No
1.8	Support management of Oberon’s town water quality issues	<input type="radio"/> Yes <input checked="" type="radio"/> No

#### A) Do you have any comments on the proposed actions identified?

Action 1.7 - Provided proper procedures have been followed in relation to site decisions and transparency for the public regarding infrastructure, bore operation and its impacts on neighbouring landholders.

### Priority 2: Reduce water security risks for the Lower Macquarie

The actions shortlisted under this priority aim to:

- deliver water more efficiently to high priority needs and reduce town water security risks in the lower Macquarie region
- improve the drought resilience of industry in the lower Macquarie region.

Proposed action		Do you support this action?
2.1	Investigate an additional off-river storage at Nyngan	<input checked="" type="radio"/> Yes <input type="radio"/> No
2.2	Create water savings through changed operation of regulated effluent creeks	<input type="radio"/> Yes <input checked="" type="radio"/> No
2.3	Continue to investigate regional water security solutions for the lower Macquarie	<input type="radio"/> Yes <input checked="" type="radio"/> No
2.4	Investigate ways to improve connectivity with the Barwon-Darling on a multi-valley scale	<input checked="" type="radio"/> Yes <input type="radio"/> No

#### A) Do you have any comments on the proposed actions identified?

Item 2.2 - Strongly opposed to changing the regulated status of the Gunningbar, Duck and Upper Crooked Creeks. The high environmental value and socio-economic benefits of the creeks system would be negatively impacted by high variations in flow rates. The Gunningbar and Duck are the most efficient conduit to the Bogan and Darling rivers.

Mines in the area depend on daily reliable flows for their operation. The Gunningbar creek offers the most economic delivery of water to the mines which is the major employer in the Bogan Shire.

Closure of the creeks would mean a significant loss of habitat for native flora and fauna as well as native fish.

Flood management tool - 50% of the Macquarie River flood water is carried by the effluent creeks, thus reducing the flood risk to Warren.

### Priority 3: Support industry climate adaptation

The actions shortlisted under this priority aim to:

- strengthen the resilience of the regional economy, including existing businesses, industries and communities, and their adaptation to a drier, more severe future climate.

Proposed action		Do you support this action?
3.1	Invest in continuous improvement to surface and groundwater modelling	<input checked="" type="radio"/> Yes <input type="radio"/> No
3.2	Improve public access to climate information and water availability forecasts	<input checked="" type="radio"/> Yes <input type="radio"/> No
3.3	Support adoption of on-farm climate adaptation and water efficiency measures	<input checked="" type="radio"/> Yes <input type="radio"/> No
3.4	Undertake research to inform reviews of groundwater extraction and condition limits	<input checked="" type="radio"/> Yes <input type="radio"/> No
3.5	Develop ongoing arrangements for participation of local Aboriginal people in water management	<input checked="" type="radio"/> Yes <input type="radio"/> No
3.6	Support place-based initiatives to deliver cultural outcomes for Aboriginal people	<input type="radio"/> Yes <input checked="" type="radio"/> No
3.7	Support the development of new water related Aboriginal business opportunities in the Macquarie-Castlereagh region	<input type="radio"/> Yes <input checked="" type="radio"/> No
3.8	Modernise the water management framework so it can continue to support sustainable economic diversification	<input checked="" type="radio"/> Yes <input type="radio"/> No
3.9	Improve public access to the Macquarie Marshes	<input type="radio"/> Yes <input checked="" type="radio"/> No

#### A) Do you have any comments on the proposed actions identified?

### Priority 4: Best use of existing water for the environment

The actions shortlisted under this priority aim to:

- limit or remove pressures and impacts related to water infrastructure
- enable water for the environment to be delivered to its best effect during wet and dry periods
- build knowledge of the region’s water dependent ecosystems and assets, and the impacts of climate change on their health and resilience
- improve water resource health through better land management.

Proposed action		Do you support this action?
4.1	Modify or remove barriers to delivering water for the environment	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
4.2	Reinstate natural channel profiles in selected streams in the southern Macquarie Marshes	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
4.3	Mitigate impacts to fish communities	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
4.4	Remediate unapproved floodplain structures	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
4.5	Provide clarity and certainty for environmental needs during drought operations	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
4.6	Assess gaps in the flow regime and identify cooperative actions to improve ecological outcomes	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
4.7	Fully implement the NSW Floodplain Harvesting Program	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
4.8	Identify regionally significant riparian, wetland and floodplain areas to protect or rehabilitate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

#### A) Do you have any comments on the proposed actions identified?

Item 4.8 - The lower Macquarie Effluent Creeks System is a regionally significant riparian wetplain and flood plain area which should be protected and constantly rehabilitated to enable better connectivity through the Bogan River to the Darling River. Undertake Channel bed restoration to improve flow and connectivity with the Bogan and Darling. Scientific studies should be undertaken to support these goals.

## 5. Other comments

**A) Should any proposed actions in this Consultation Paper not be shortlisted and why?**

Action 2.2 - There is no factual support for this action. No scientific study has been undertaken. Modelling has been inaccurate (see page 71 Note 49 of the Draft Regional Water Strategy - Macquarie Castlereagh). No prior consultation with those most likely to be affected ( stakeholders, landholders, impacted parties).

**B) Should any other options in Attachment 1 of the Consultation Paper be shortlisted and why?**

No

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## 6. Implementation of the Macquarie-Castlereagh Regional Water Strategy

An Implementation Plan will be included in the final Macquarie-Castlereagh Regional Water Strategy.

**A) Which actions should be implemented first and why?**

First Action - Supplying water to high priority needs in the lower river system and connected valleys

- a) the towns of Warren, Nyngan and Cobar
- b) landholders on rivers and creeks with stock and domestic water needs

### Making your submission public

To promote transparency and open government, we intend to make all submissions publicly available on our website, or in reports. Your name or your organisation's name may appear in these reports with your feedback attributed.

**If you would like your submission and/or feedback to be kept confidential, please let us know when making your submission.**

If you request that your submission is to be kept confidential, it will not be published on our website or included in any relevant reports; however, it will still be subject to the *Government Information Public Access Act 2009*.

Your submission will be stored securely, consistent with the department's Records Management Policy and you have the right to request access to, and correction of, your personal information held by the department.

Further details can be found in our privacy statement available on our website.  
[www.industry.nsw.gov.au/privacy](http://www.industry.nsw.gov.au/privacy)

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## 7. Information on confidentiality and privacy \*

I give permission for my submission to be publicly available on the NSW Department of Planning and Environment website.

Yes     No

I would like my personal details to be kept confidential.

Yes     No

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## 8. Would you like to be kept updated on progress on the development and implementation of the Macquarie-Castlereagh Regional Water Strategy?

Yes     No

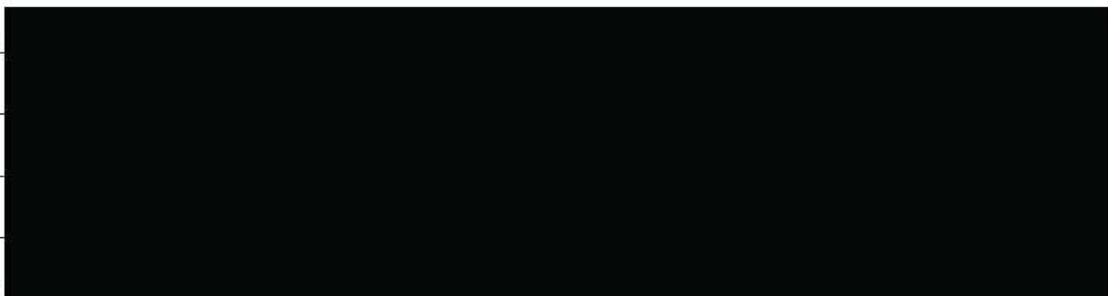
If yes, please provide your details below.

\* Email address:

\* Name:

\* Address:

\* Contact phone

A large black rectangular box redacts the contact information provided by the user for questions 7 and 8.

## 9. How did you hear about the Public Exhibition of this strategy?

We are interested to know how you heard about the opportunity to make a submission. Please indicate the communication methods below:

- Newspaper
- Radio
- Department of Planning and Environment website
- Direct email
- Social media
- Have your say NSW Government website
- Communication from peak body
- Word of mouth
- Other (select and provide details) From a neighbour

## 10. Additional Information

If you would like to provide any supporting documents to help us understand your feedback, please email these from the same email you provided in this form or attach supporting documents to this form if you are returning your submission by mail.

All submissions on the draft Macquarie-Castlereagh Regional Water Strategy will be reviewed following the public exhibition period.

**Please email your completed submission and any supporting documents to:**

[regionalwater.strategies@dpie.nsw.gov.au](mailto:regionalwater.strategies@dpie.nsw.gov.au)

**CLICK HERE TO EMAIL SUBMISSION**

**Or post to:**

Regional Water Strategies  
Department of Planning and Environment  
Locked Bag 5022  
Parramatta NSW 2124

**Submissions close Friday 18 November 2022, 11.59pm**

Further details on all regional water strategies can be found on our website  
[www.dpie.nsw.gov.au/regional-water-strategies](http://www.dpie.nsw.gov.au/regional-water-strategies)



Thank you for your submission.

[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

18 November, 2022

[REDACTED]  
Regional Water Strategies  
Department of Planning & Environment  
Locked Bag 5022  
PARAMATTA NSW 2124

Good Evening [REDACTED],

**RE: Regional Water Strategies Response – Public Exhibition 2  
Macquarie – Castlereagh Regional Water Strategy – Shortlisted Actions**

I am submitting the following as a resident and part of a family operation at [REDACTED]  
and as a [REDACTED]  
[REDACTED]

I would like to commend the Draft Regional Water Strategy – Macquarie Castlereagh planners on their efforts towards the next 20-40 years water management. Although I do agree with some of your options, I have serious opposition to shortlisted action 2.2, page 70 and would strongly oppose any change to the regulated status of the Gunningbar, Duck and Upper Crooked creeks. There has been no accurate modelling, on-the-ground knowledge or scientific research with demonstrable outcomes to support your proposal.

Water Efficiency and efficient use of existing water. What does this mean? Surely it means, “the greatest benefit to a natural environment and the people living there”. The Lower Macquarie Effluent Creeks System (LMECS) may be viewed as a natural extension of the Macquarie Marshes. It uses very little water and supports a 980 km eco-system, very much the same as the Marshes. It has the same large variety of fauna, bird life, native fish and flora and riparian vegetation. In addition, it has significant socio-economic value, supporting a large number of traditional grazing enterprises and at least four large irrigation enterprises as well as dry-land cropping on areas of varying sizes. The community is committed to maintaining the health of the creeks eco-system as it underpins the high economic value of the sheep and cattle stud breeding for which the creeks are well known. Sheep studs include; Egelabra, Enaweena, Yanganbil, Colane, Mullengudger, Merryanbone, Eudora, MPM [REDACTED] Cattle Stud; Mullengudger Shorthorn.

High variations in the flow regime would result in significant reduction in numbers and varieties of bird species e.g. ducks and water birds, native fish populations, degradation of riparian vegetation and natural water holes as well as channel capacity and have a very deleterious effect on fauna such as snake-necked turtles both very large and smaller varieties and swamp wallabies all of which we see at [REDACTED] regularly.

Economically, high variation flows would cause severe impact on grazing operations – sheep losses due to bogging. There would also be a decrease in land value of at least 30% if not more, which would affect rate revenue for the Bogan and Warren Shires.

It could also affect Tritton Mines at Girilambone, which depend for their mining operations on the Gunningbar creek for daily water supply. These mines are the largest employer in the Bogan Shire.

The Creeks have a flood mitigation role. Currently the Sandy Creek / Belaringar, Gunningbar, Duck, Crooked and Marra Creeks are carrying substantial amounts of water in these flood times – noting this is over 50% of the Macquarie River flood water, thus reducing the risk of flood to the town of Warren.

On page 71, Note 49 of the draft document, attention is drawn to the fact there have been no serious scientific studies done of the LMECS and modelling has been shown to be inaccurate. In light of this, we are in favour of options 4.2 and 4.8 to include these highly valuable water resources in future water studies and rehabilitation programs.

I would welcome further discussion and consultation with the DPIE regarding the above matters and moving forward with the Draft Regional Water Strategy – Macquarie -Castlereagh.

Regards,

