

Submission**GW052**

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Response ID	R_0CitfpgTxN8mmE9
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Confidentiality instruction - sharing submission internally within department	I give permission for my name and email to be shared within the department.
Submission choice - file upload or complete survey	I wish to complete this survey
File upload - instead of completing survey - ID	
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Thinking about your relationship to groundwater, which of the following user groups or parts of the - Selected Choice	Domestic and stock
Thinking about your relationship to groundwater, which of the following user groups or parts of the - Other (please specify) - Text	
In which region are you located	North Coast
* How important is it for you to access groundwater as a resource	Very important
* To what extent do you agree with the following statements - Groundwater is important for basic human needs (drinking, cooking)	Strongly agree
* To what extent do you agree with the following statements - Groundwater is important for stock watering	Strongly agree
* To what extent do you agree with the following statements - Groundwater is important for Aboriginal communities and Country	Neutral
* To what extent do you agree with the following statements - Groundwater is important for agriculture	Agree
* To what extent do you agree with the following statements - Groundwater is important for the environment	Strongly agree
* To what extent do you agree with the following statements - Groundwater is important for industrial businesses (including mining)	Agree
* To what extent do you agree with the following statements - Groundwater is important for manufacturing (water bottling, food processing and others)	Agree
* Please indicate what you think NSW's groundwater needs will look like over the next 20-40 years.	More than current needs
* Which part/s of the community do you think will have the greatest change in their groundwater need	Agriculture, Towns and cities

* Do you think you should change the way you will use groundwater in the future	Yes, I've started doing research and am in the process of making changes
* How well do you know the NSW groundwater management framework, rules and legislation	Very well
* Please rank the 4 key issues affecting groundwater management in NSW from most important to least - Our climate is changing, and groundwater recharge and demands will be affected	1
* Please rank the 4 key issues affecting groundwater management in NSW from most important to least - The risks to groundwater from development and land use change are increasing	2
* Please rank the 4 key issues affecting groundwater management in NSW from most important to least - Community notions of sustainability and fair access to groundwater have evolved	4
* Please rank the 4 key issues affecting groundwater management in NSW from most important to least - Our understanding of groundwater, its behaviour and use is improving	3
Please tell us of any other challenges that are affecting groundwater management in NSW	increasing urbanisation on Mid North Coast where most (or in case of Nambucca Shire 100%) of urban water is groundwater.
* Please rank these challenges in order of importance, where 1 = Most important and 4 = Least import - Our policy framework for sustainable groundwater management needs to be updated to be more responsive to emerging challenges such as climate change	1
* Please rank these challenges in order of importance, where 1 = Most important and 4 = Least import - Ecosystems that depend on groundwater face increased threats such as intensive groundwater extraction and pollution	3
* Please rank these challenges in order of importance, where 1 = Most important and 4 = Least import - There is a lack of strategic integration between management of groundwater, surface water and land	4
* Please rank these challenges in order of importance, where 1 = Most important and 4 = Least import - Threats to the quality of groundwater resources are increasing over time and these need to be addressed	2
Please tell us any other challenges you think will affect the protection of groundwater resources an	difficulty of enforcing legislation/regulation of GW extraction

* How important for you is the protection of groundwater resources and the ecosystems that depend on	Very important
* To what extent do you agree with draft action 1.1?	Agree
* To what extent do you agree with draft action 1.2?	Agree
* How important to you are each of the following sub-actions required under Action 1.2? - Refresh and expand our approach to sustainable groundwater management	Very important
* How important to you are each of the following sub-actions required under Action 1.2? - Manage groundwater and surface water together	Neutral
* How important to you are each of the following sub-actions required under Action 1.2? - Integrate groundwater considerations into land use planning decisions	Important
* How important to you are each of the following sub-actions required under Action 1.2? - Improve management of large developments impacting groundwater	Important
* How important to you are each of the following sub-actions required under Action 1.2? - Strengthen cross-border groundwater management	Neutral
* To what extent do you agree with draft action 1.3?	Agree
* How important to you are each of the following sub-actions required under Action 1.3? - Review and update our approach to protecting groundwater dependent ecosystems	Important
* How important to you are each of the following sub-actions required under Action 1.3? - Deliver a program to improve our understanding of groundwater dependent ecosystems	Important
* To what extent do you agree with draft action 1.4?	Strongly agree
* How important to you are each of the following sub-actions required under Action 1.4? - Review groundwater source extraction limits using new knowledge	Important
* How important to you are each of the following sub-actions required under Action 1.4? - Better manage impacts of extraction at a local level	Very important
* How important to you are each of the following sub-actions required under Action 1.4? - Improve clarity around management of groundwater sources with a low long-term entitlement share value	Important

* To what extent do you agree with draft action 1.5?	Agree
* How important to you are each of the following sub-actions required under Action 1.5? - Review and update our approach to managing groundwater quality	Important
* How important to you are each of the following sub-actions required under Action 1.5? - Deliver a program to better understand groundwater quality and risks	Important
Please tell us any other suggested actions you think we should consider in Strategic Priority 1	
* Please rank these challenges in order of importance, where 1 = Most important and 3 = Least import - Increasing demand for groundwater for other uses can undermine its use for town water supply	3
* Please rank these challenges in order of importance, where 1 = Most important and 3 = Least import - New and expanding industries need to consider groundwater opportunities and constraints	1
* Please rank these challenges in order of importance, where 1 = Most important and 3 = Least import - Aboriginal rights to groundwater and Aboriginal uses of groundwater are not adequately recognised	2
Please tell us any other challenge you think will affect community and industry resilience in using	There has to be a policy on GW banking, by injection by those who can afford it, or by underground weirs for rural users.
* How important is it for you that communities and industries using groundwater resources have a rel	Very important
* To what extent do you agree with draft action 2.1?	Agree
* To what extent do you agree with draft action 2.2?	Agree
* How important to you are each of the following sub-actions required under Action 2.2 - Provide better information on groundwater opportunities and constraints to communities and industries	Important
* How important to you are each of the following sub-actions required under Action 2.2 - Enable the increase of sustainable groundwater use in targeted areas	Of minor importance
* How important to you are each of the following sub-actions required under Action 2.2 - Foster innovative groundwater solutions, including Managed Aquifer Recharge (also called 'water banking', to support communities and industries)	Very important

* To what extent do you agree with draft action 2.3?	Agree
* How important to you are each of the following sub-actions required under Action 2.3 - Increase access to groundwater for Aboriginal people	Important
* How important to you are each of the following sub-actions required under Action 2.3 - Protect groundwater-dependent places of significance to Aboriginal communities	Very important
* How important to you are each of the following sub-actions required under Action 2.3 - Better integrate Aboriginal knowledge into groundwater management	Important
* Do you identify as Aboriginal and/or Torres Strait Islander	Neither
Please tell us what groundwater health and secure groundwater supply means for you, your family, you	
Please tell us about the changes you have seen in groundwater management in your cultural landscape	
Please indicate which of these cultural opportunities you have seen in action in the way groundwater - Selected Choice	
Please indicate which of these cultural opportunities you have seen in action in the way groundwater - Other (please specify) - Text	
Please provide any other comments about cultural opportunities or challenges in groundwater manageme	
What are the most important benefits of cultural and economic opportunities in the water industry - Selected Choice	
What are the most important benefits of cultural and economic opportunities in the water industry - Other (please specify) - Text	
Please provide any other comments about benefits of cultural and economic opportunities and how we r	
Cultural heritage file upload - ID	
Cultural heritage file upload - Name	
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Cultural heritage file upload - Type	
Please tell us any other suggested actions you think we should consider in Strategic Priority 2	
* Please rank these challenges in order of importance, where 1 = Most important and 3 = Least import - Being underground and difficult to investigate, information about groundwater is lacking	1

* Please rank these challenges in order of importance, where 1 = Most important and 3 = Least import - There are gaps in our scientific knowledge and research capabilities	2
* Please rank these challenges in order of importance, where 1 = Most important and 3 = Least import - Our groundwater monitoring network is ageing and has limited coverage	3
Please tell us any other challenge you think is affecting the use of information and data to m	There is a wealth of information in rural areas held by longterm families, that isn't accessed by the department.
* How important is it for you to have access to more information and data about groundwater manageme	Important
* How interested are you in finding out more about how groundwater is managed and used	Very interested
What ways could the department use to communicate with you and others in your community about ground	Site visits rather than desktop studies by city based departmental officers.
Please tell us what type of information and data about groundwater resources you would like availabl	Data on outflow from coastal streams and the percentage of above and groundwater flows. This could be established by gauging stations at the site of underground weirs.
* To what extent do you agree with draft action 3.1?	Strongly agree
* To what extent do you agree with draft action 3.2?	Agree
* How important to you are each of the following sub-actions required under Action 3.2 - Expand the range of knowledge and insights products including information systems, platforms and interfaces for storing, managing, accessing and interrogating groundwater data	Neutral
* How important to you are each of the following sub-actions required under Action 3.2 - Improve and diversify how we communicate information on groundwater resources and their management	Neutral
* How important to you are each of the following sub-actions required under Action 3.2 - Support strategic planning and decision-making by councils and groundwater users with improved access to information on groundwater and its management	Neutral
* How important to you are each of the following sub-actions required under Action 3.2 - Develop a unified framework to consolidate and analyse all groundwater data across all relevant agencies and groundwater users and impacting activities	Important

* How important to you are each of the following sub-actions required under Action 3.2 - Support data and database integration across agencies to address data gaps and improve customer service delivery	Very important
* To what extent do you agree with draft action 3.3?	Strongly agree
* How important to you are each of the following sub-actions required under Action 3.3 - Expand our multi-disciplinary understanding of groundwater	Neutral
* How important to you are each of the following sub-actions required under Action 3.3 - Improve our groundwater models where required	Neutral
* How important to you are each of the following sub-actions required under Action 3.3 - Increase our capacity and capability to apply leading groundwater science	Neutral
* To what extent do you agree with draft action 3.4?	Strongly agree
* How important to you are each of the following sub-actions required under Action 3.4 - Improve our groundwater monitoring infrastructure	Very important
* How important to you are each of the following sub-actions required under Action 3.4 - Improve our groundwater monitoring programs	Very important
Please tell us any other suggested actions you think we should consider in Strategic Priority 3	
Please provide any final comments	The draft is far too short on MAR. This has the potential to revolutionise water security for up-river properties which are the first affected by drawdowns of aquifers. Studies show that climate change is first manifested by change in aquifers upriver. It is surprising to see the use of the term "innovative" to describe the implementation of MAR when is is documented from Roman times and is in widespread use in all continents except Antarctica and Australia. It is claimed that current laws/regulations don't prohibit the implementation of small scale rural MAR but the demand for incredibly extensive and expensive studies amounts to bureaucratic prohibition. To ask the first proponent of MAR in NSW to prove the feasibility, safety and effectiveness of a process that has been proven hundreds of thousands of times in other jurisdictions is hardly rational or fair.
Any additional material - file upload - ID	
Any additional material - file upload - Name	
Any additional material - file upload - Size	
Any additional material - file upload - Type	
Personal information: name, email - Name	Andy Moran

Personal information: name, email - Email	
Business name, if responding on behalf of a business - Your business name (if you are responding on behalf of an organisation)	
* How did you hear about this survey? Select all that apply. - Selected Choice	Other (please specify)
* How did you hear about this survey? Select all that apply. - Other (please specify) - Text	member IAH and IWRA
* What age bracket do you fit into?	65 - 74 years
* How do you describe your gender	Male
* Speak language other than English at home? - Selected Choice	No
* Speak language other than English at home? - Yes (please specify) - Text	
* Identify as person with disability?	No
Text	