# Waterwise Challenge: How can we protect and preserve our water resources?

## data.qld.gov.au

- Queensland has roughly 68 large dams, 261 small surface water storages and 179 large river systems.
- Over 60% of Queensland is currently in drought.
- The Great Artesian Basin covers 1.7 million sq km and holds 64 cubic kilolitres.
- Water demand is increasing with population growth, changes in economic growth and pollution.

## What is your solution?

We suggest you consider using the Queensland Government open datasets on data.qld.gov.au.

A list of useful open datasets and resources is on the following page.

https://data.qld.gov.au/article/news-and-events/govhack-2019-challenges/waterwise

### Guidance to help you prepare your GovHack project video to pitch your solution (3 minutes):

1. Introduction: state the project title, team name and members.
2. Problem: what is the challenge your hack addressed? Why does it matter to find a solution?
3. Vision: in one sentence, describe the ideal end state / long-term goal you are trying to achieve through your solution.
4. Data/resources: what was your approach to solve the problem? How did you investigate the problem? Provide an overview of the open data and information used and how it helped you to develop your solution.
5. Minimum viable product: describe your solution (proof of concept). What makes the solution unique? What would be the impact of the solution?
6. Next steps: outline a road map on how the solution could be developed and implemented to achieve your vision.

For more tips see the GovHack handbook

# Locating open data

Queensland Government open data is accessible at data.qld.gov.au. You can combine this with national data from data.gov.au or open data from local councils.

Below is a list of open datasets and resources to get you started on this challenge:

## Open datasets

Either click on a link below or search for the dataset on data.qld.gov.au

1. Registered recycled water schemes
2. Water entitlements
3. Ambient estuarine water quality monitoring data (includes near real-time sites) - 2012 to present day
4. Queensland water and sewerage service provider key performance indicator data 2017/18
5. Referable dams register
6. Queensland subterranean aquatic fauna database
7. Coastal Data System – Near real time wave data
8. Coastal Data System - Historical wave data
9. Hydrographic features - Queensland series
10. Marine pollution data
11. Hydrological connectivity of the pre-clear landscape to the Great Barrier Reef V1.6
12. Groundwater Database - Queensland
13. Land use mapping series
14. Queensland borehole series
15. Watercourse identification map - Queensland series
16. Drainage basins Queensland
17. Hydrographic features - Queensland series
18. Geographic features - Queensland series
19. Coastline and State Border - Queensland
20. Marine pollution data
21. Springs database
22. Annual rainfall
23. NDRP Storm Tide Hazard Interpolation series
24. Queensland water and sewerage service provider key performance indicator data 2017/18
25. Water resource management features - Queensland series
26. River Improvement Trust areas - Queensland
27. Water monitoring network - surface water quantity - Queensland
28. SILO climate database - evaporation - class A pan
29. Drainage divisions Queensland
30. Climatic regions for stormwater management design objectives - Queensland
31. Surat cumulative management area
32. Reef catchment modelling results

## Resources

1. Water use and monitoring
2. Queensland Globe
3. Water Catchments and Planning
4. WaterQ – A 30 year strategy
5. Great Artesian Basin
6. Dams and water storages 1990
7. Water planning framework
8. DNRME Water Plan Map
9. Rural Water Management Program
10. Water Pollution
11. Brisbane City Council - Protect our waterways
12. OZTemp Well Temperature Data
13. SILO Climate Data