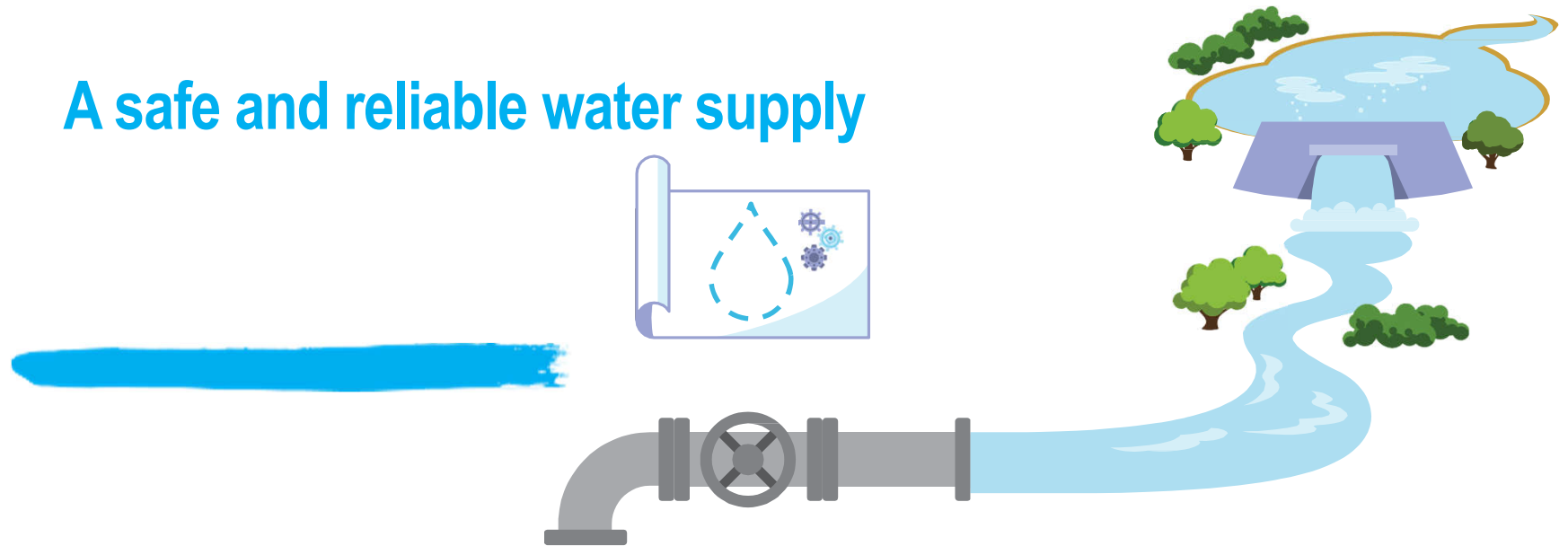




Day zero – a water crisis challenge

A safe and reliable water supply



What does it mean to have safe and reliable water supply?

- Water gives and sustains life
- It helps to create prosperity
- It contributes to liveable cities
- It can be the difference between being sick and healthy

WHO WE ARE AND WHAT WE DO

- Operate and manage \$11 billion of dams, water treatment plants and pipelines
- Provide water to more than 3 million South East Queenslanders
- Supply irrigation water to 1,200 farmers
- Flood mitigation
- Manage recreation areas enjoyed by nearly 3 million people
- Water is essential for our lifestyle

<https://www.youtube.com/watch?v=5qJGyQaeoog>



Cape Town South Africa

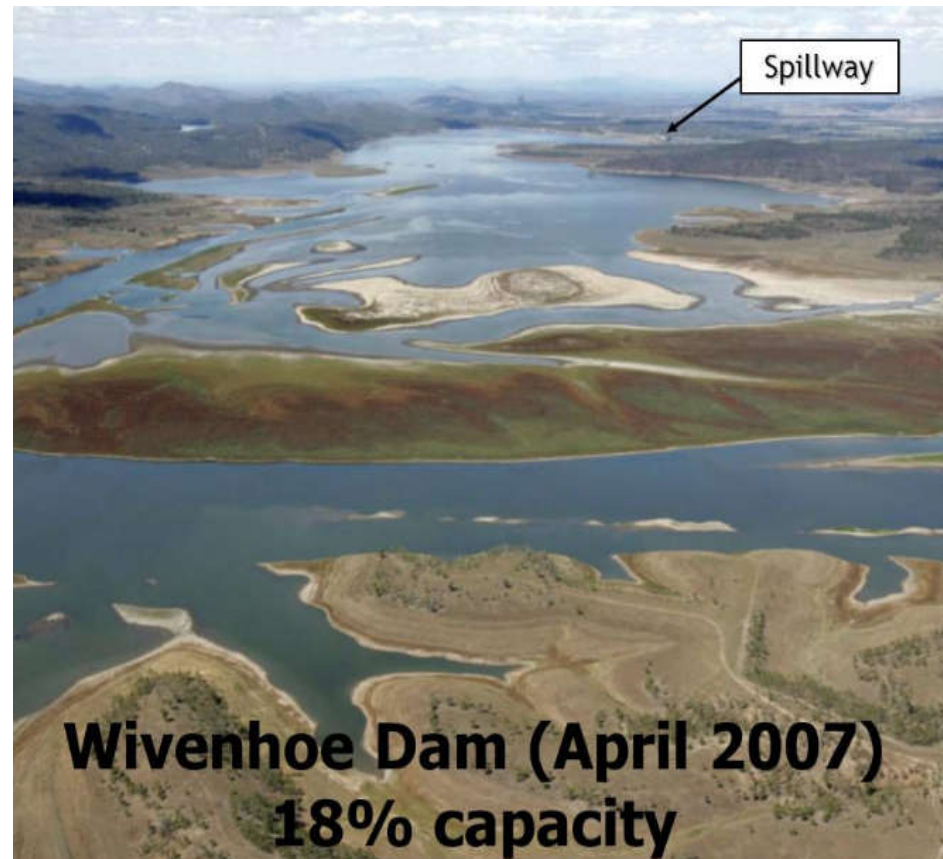
DAY ZERO

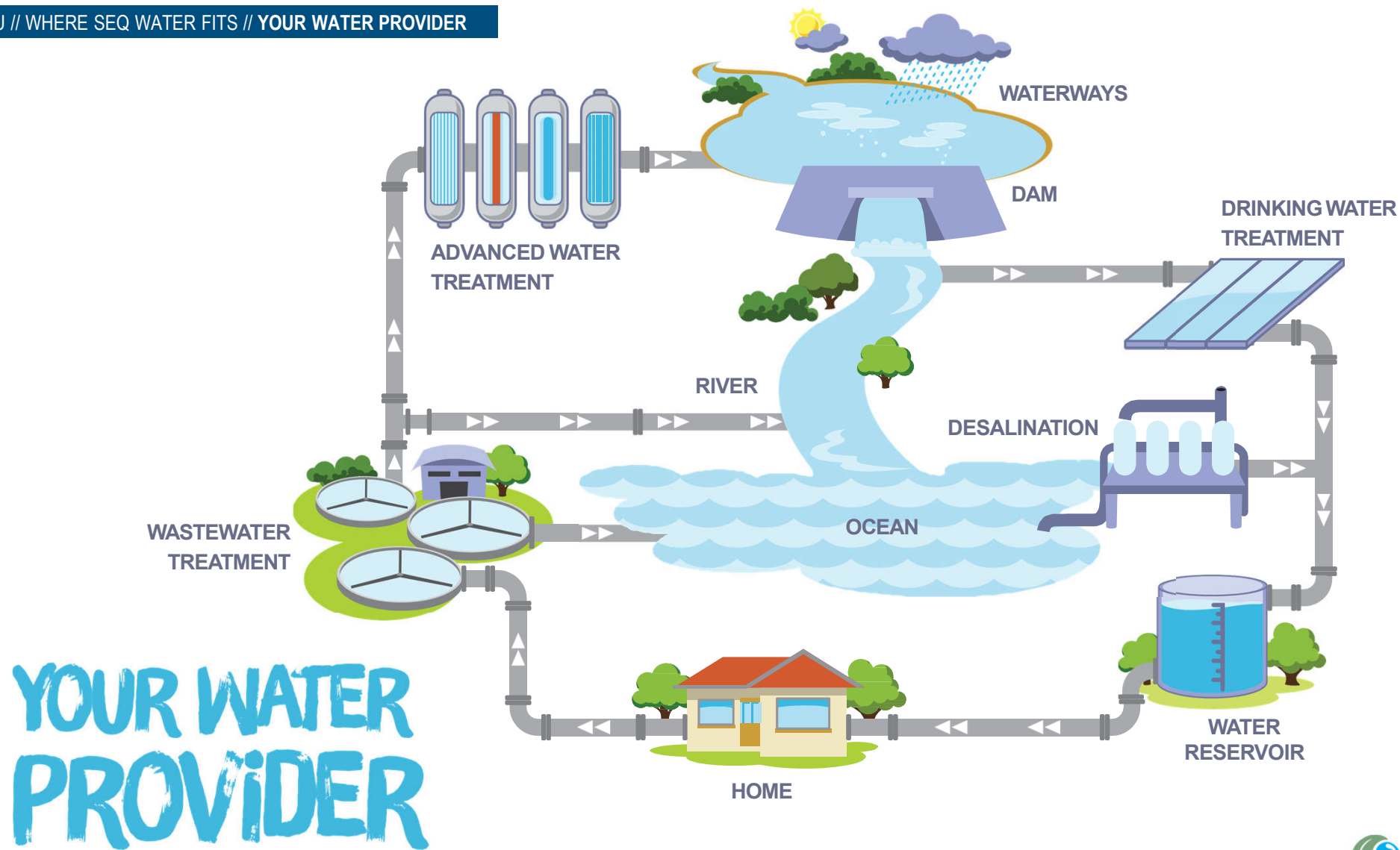
When the water runs out



<https://www.youtube.com/watch?v=z09R8DsFnFE>

Has a water crisis happened in South East Queensland?





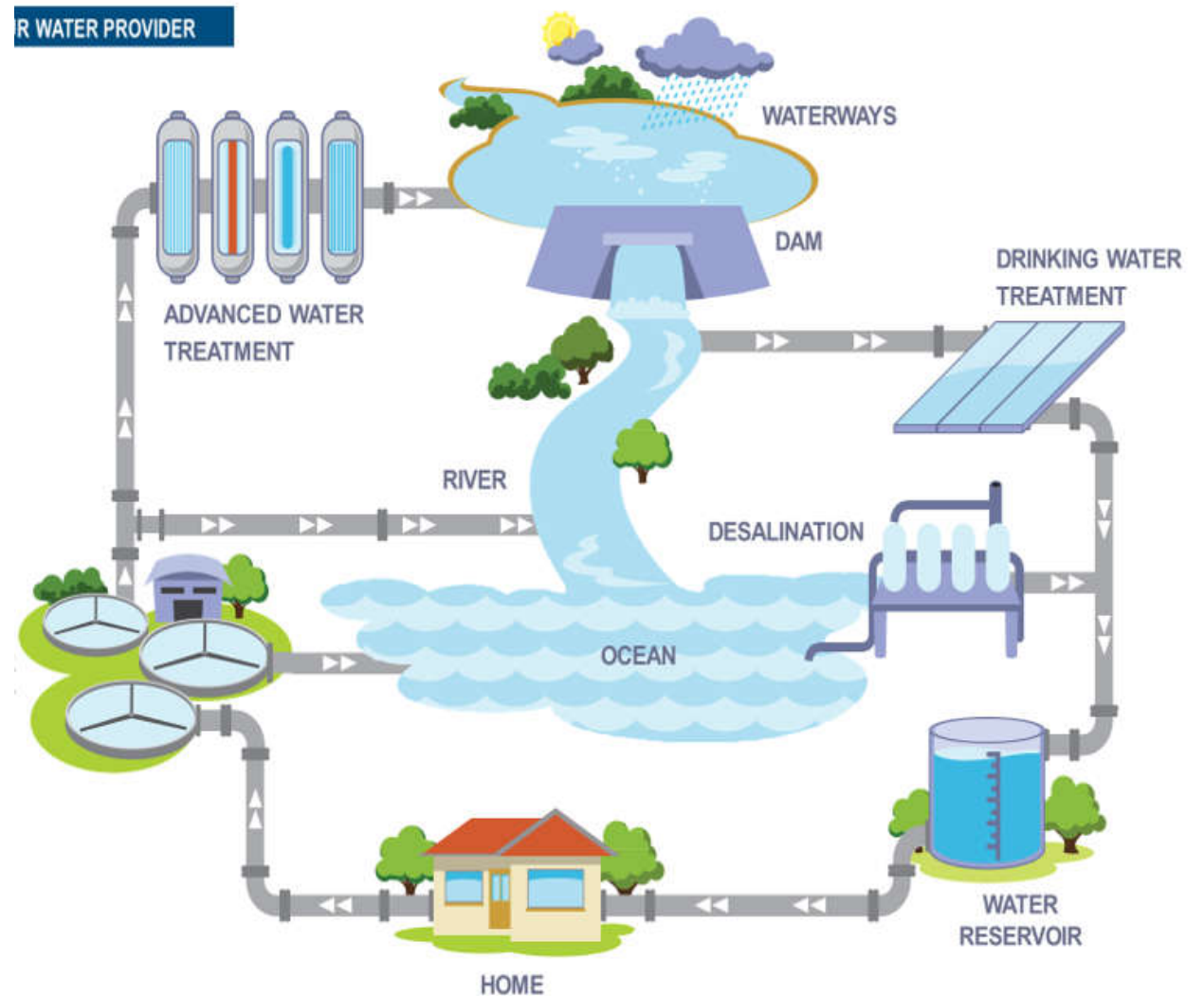
Could another water crisis *still* happen in South East Queensland?



Water Source Options

- Dams
- Desalination
- Advanced Water Treatment
- Demand Management

Who we are and what we do



DAMS

- Require river and valley site
- Relies on rainfall
- Large area required for water storage
- People may have to move
- Provides flood protection
- Can store large volumes of water

About Dams



DESALINATION

- Require location near ocean
- Requires substantial energy and technology to produce water
- Doesn't rely on rainfall – climate independent
- Takes up a small amount of land

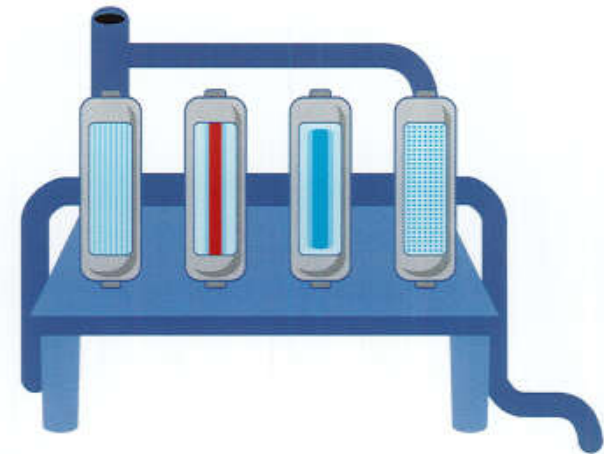
About Desalination



PURIFIED RECYCLED WATER

- Requires location near wastewater treatment plant
- Requires substantial energy and technology to produce water
- Recycles a waste product
- Requires only a small amount of land
- Doesn't rely on rainfall – climate independent

About Purified Recycled Water



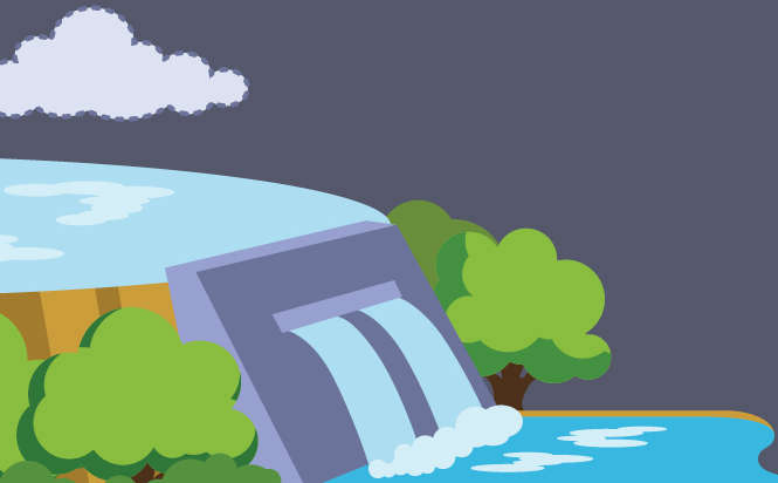
DEMAND MANAGEMENT

- Voluntarily reducing water use
- Education program to encourage water saving e.g. shorter showers and program/rebates to purchase water efficient washing machines, etc.
- Will not fill dams
- Will not be a total solution

About Demand Management



Day Zero hack



1. Match the town picture to the location description.
2. Choose a water source option for each town/location
3. Fill out the activity sheet for ONE location.



Water Source Option Activity

Water Source Option Activity

1. Match the towns to the location description.
2. Match the possible water option to each town.
3. Choose **ONE** town and answer the following questions.

Which town/location did you choose?

Which water supply option did you choose for this location?
.....

What is the main reason for choosing this option?
.....
.....

Are there any disadvantages with this option?
.....
.....

Would any other water source options be suitable?
.....
.....

Are there any water source options that would not be suitable and why?
.....
.....
.....



Resources

- Day Zero Video <https://www.youtube.com/watch?v=z09R8DsFnFE>
- Your Water Future <https://www.youtube.com/watch?v=5qJGyQaeoog>

