Creating a frog-friendly habitat



























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TOBER 2020



Online Lea Festiva Reimagining













Water Fut









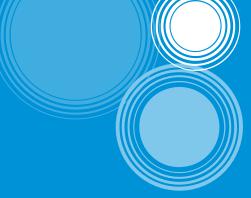






Melbourne Water Frog Census

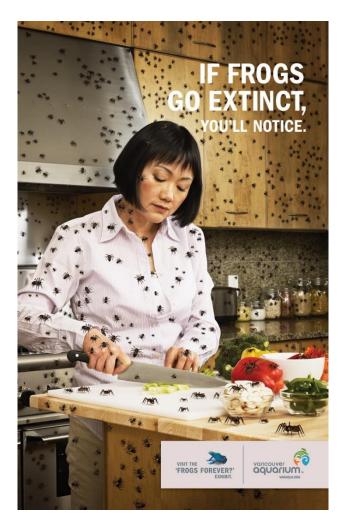
Creating a Frog Friendly Habitat







Why care about frogs?

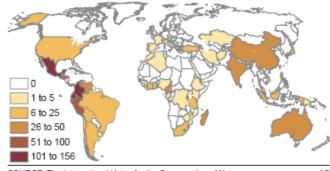




One-third of amphibians threatened

Nearly 2,000 species of amphibians are currently endangered. Batrachochytrium dendrobatidis, an amphibian chytrid fungus, is thought to be a major reason for the decline in population.

Number of threatened amphibian species, by country, May 2006



SOURCE: The International Union for the Conservation of Nature and Natural Resources

Melbourne Water Frog Census



Why build a Pond?

Frog ponds are constructed breeding habitats for frogs - for egg-laying, tadpole development and damp refuge in dry summers

Link up populations

Backyard nature

Free organic pest control

'Off-line' habitat safe from pollution



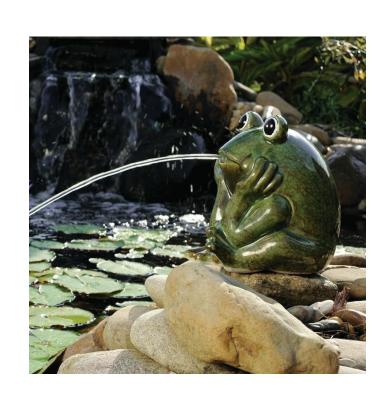
Q. Why build a pond? A. Frog babies.



Before you start

Considerations:

- Q. Budget
- Q. Land tenure, buried services
- Q. Maintenance who looks after it?
- **Q.** What is your landscape context? Do any frogs live near you?
- **Q.** How long can you commit to having the pond for?



Q. Water source?

What frogs live near you? What might turn up?

Before you build:

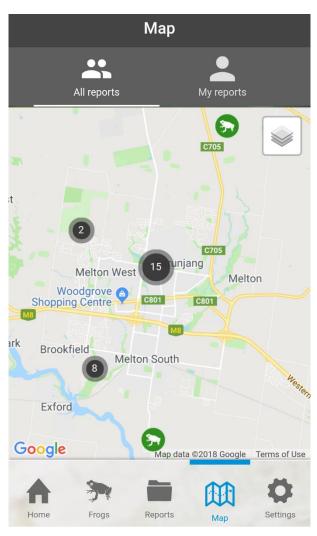
Q. What is your landscape context?

Q. How to find out if any frogs live near you

*don't introduce frogs







Pond location

Where to locate the pond:

- Sun and shading
- Large trees shading, leaf fall, roots, bird droppings
- Water supply/drainage/run-off
- Is the surrounding terrestrial habitat 'frog friendly'?
- Neighbours
- Safety
- Soil profile

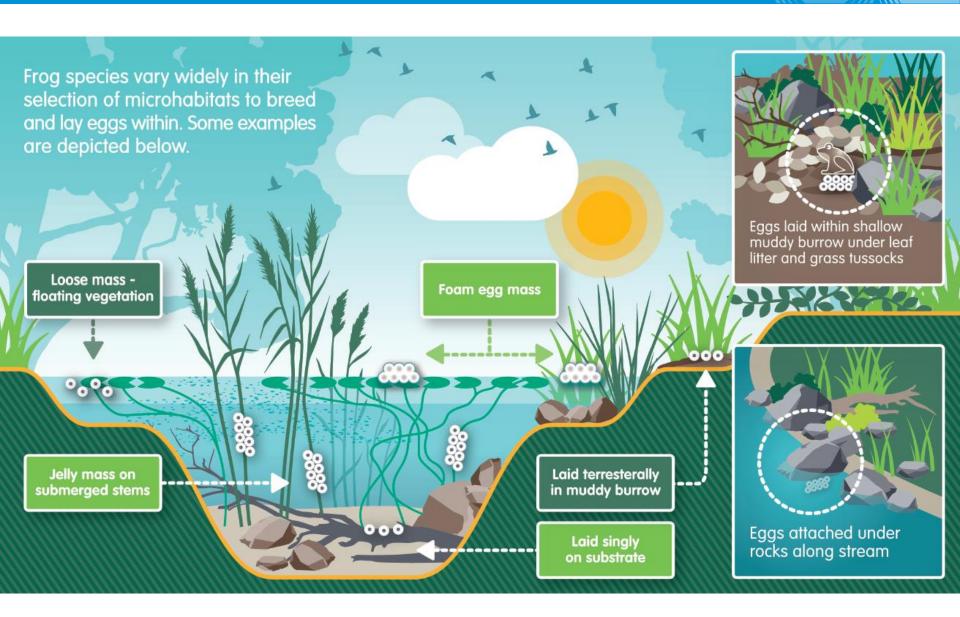


Pond safety





Understand frog biology to understand pond needs



Eastern Common Froglet

Crinia signifera



Image: Peter Robertson







Eastern Banjo Frog (Pobblebonk)





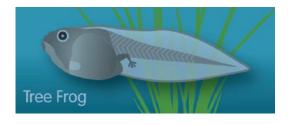
Southern Brown Tree Frog

Litoria ewingii

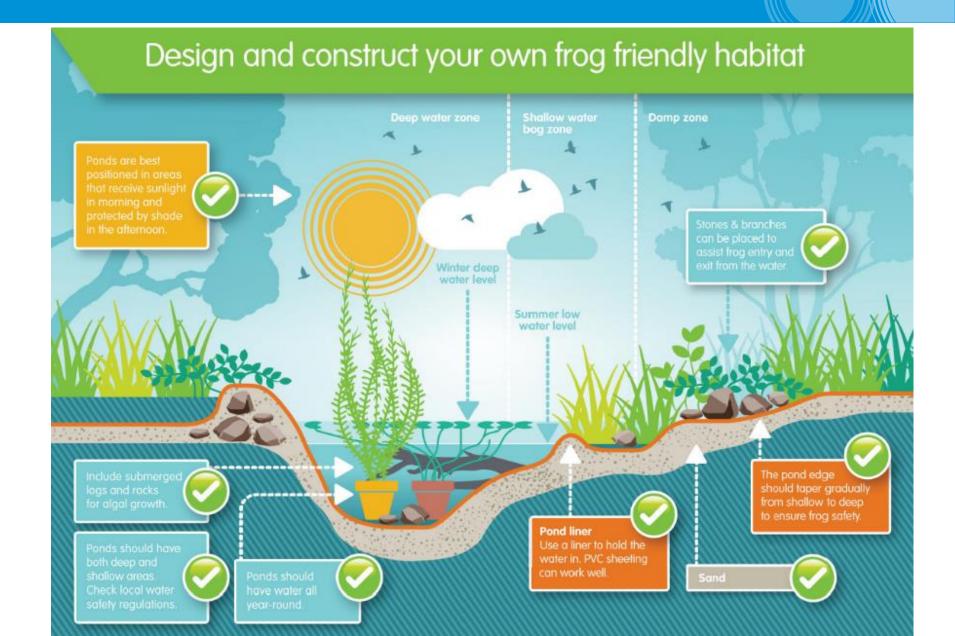




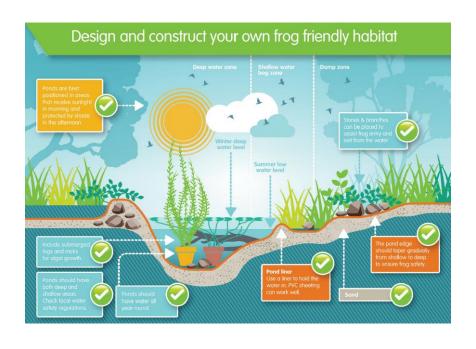
Image: Peter Robertson

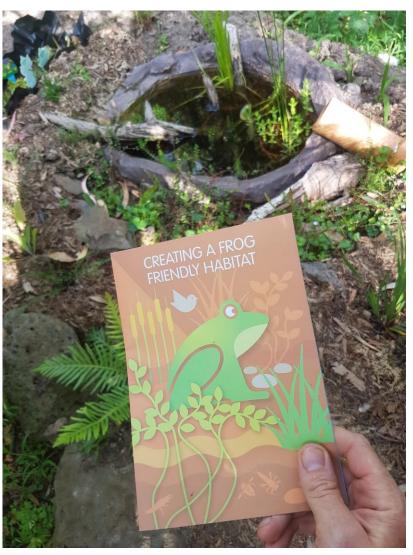


Frog ponds: some principles & elements

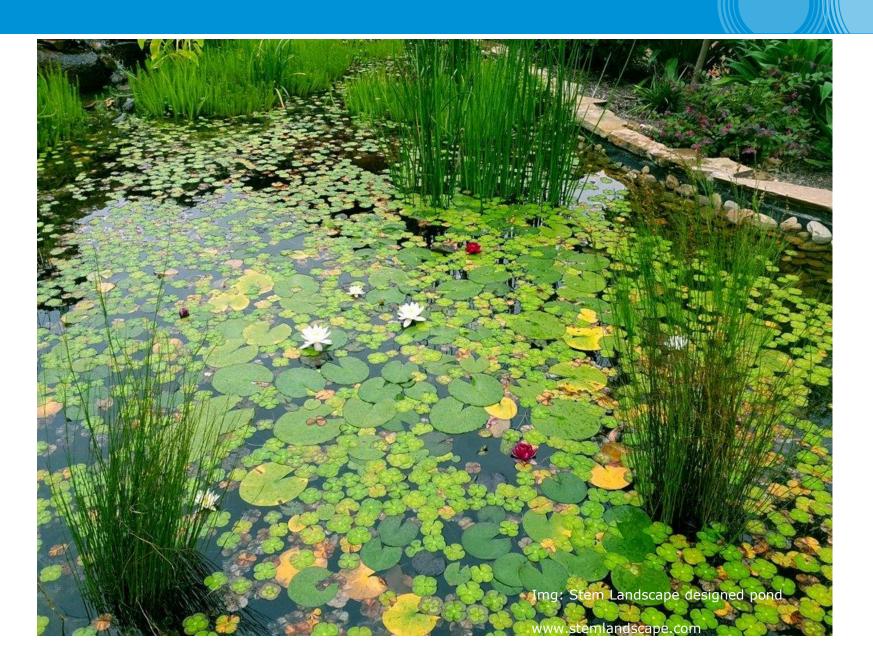


Frog ponds: some principles & elements

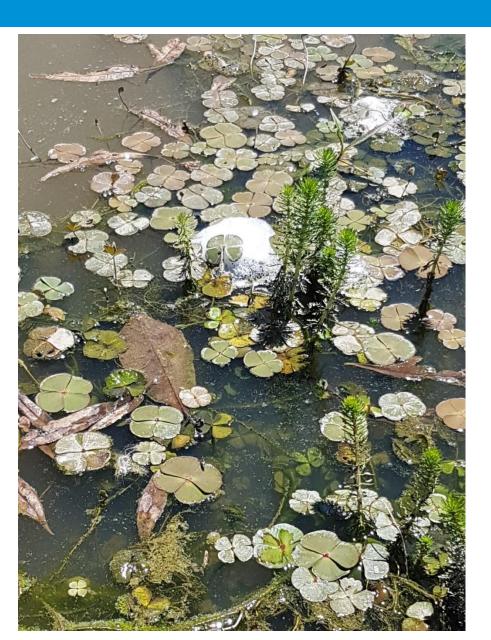




Frog Ponds: vegetation end goal



Frog Ponds: vegetation end goal

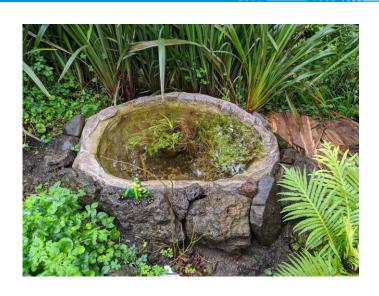




Frog pond types











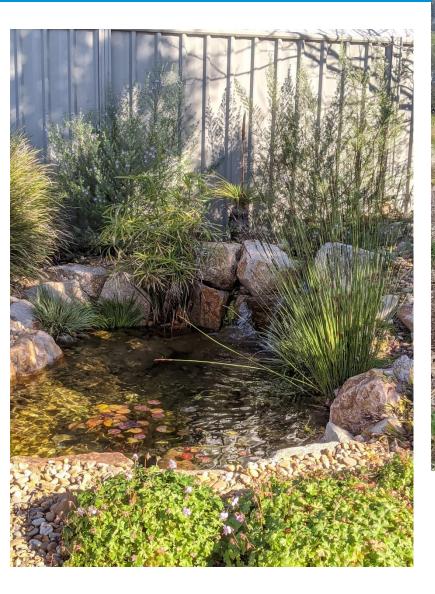


In-grounds ponds compacted clay liner





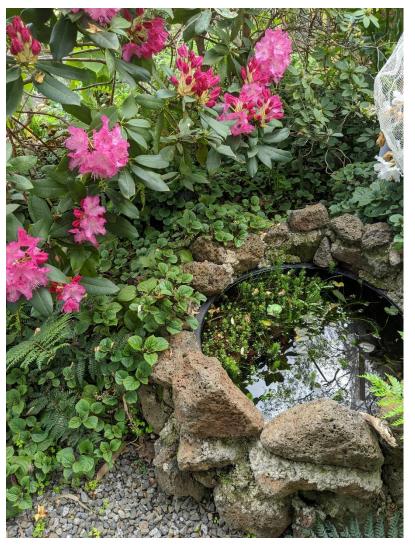
In-ground ponds with pond liners





Precast ponds



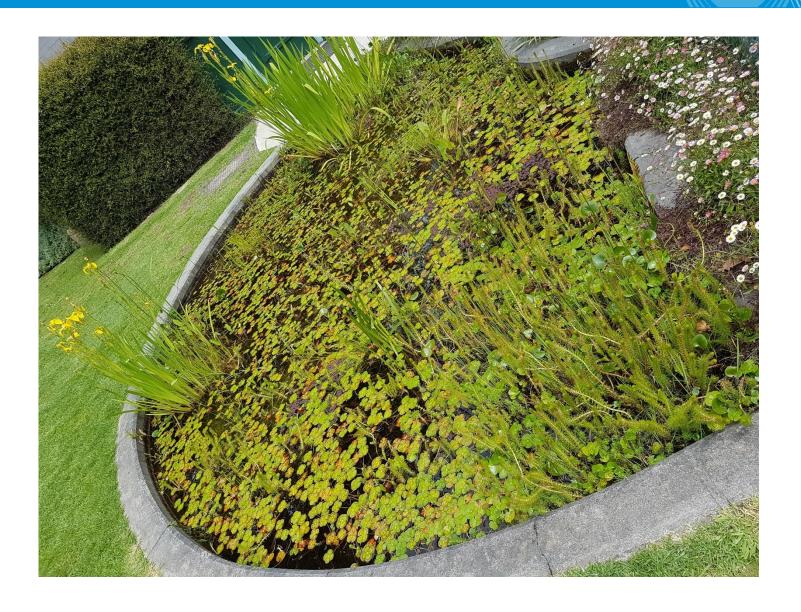


Pond in a pot





Ornamental



How to build a pond (using a liner)



Digging and lining



Abiotic elements



Vegetation zones and substrate





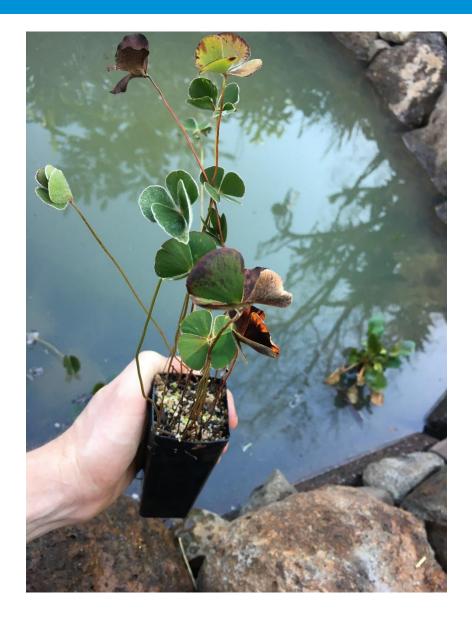
Introducing water



Trimming/finishing/landscaping



Wetland plants and planting



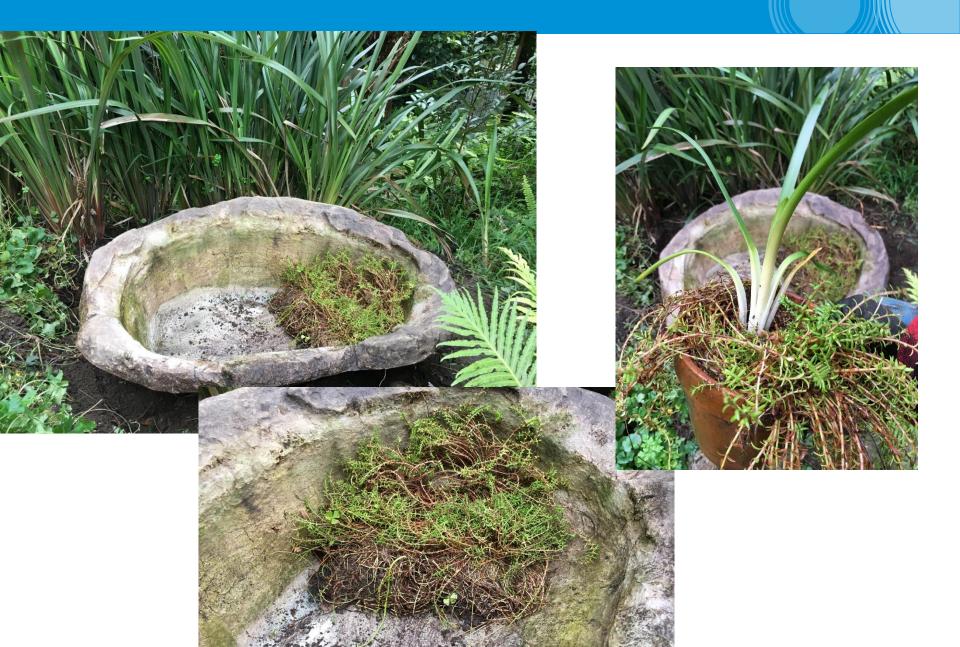


Vegetation structure end goals





Pre-cast pond construction

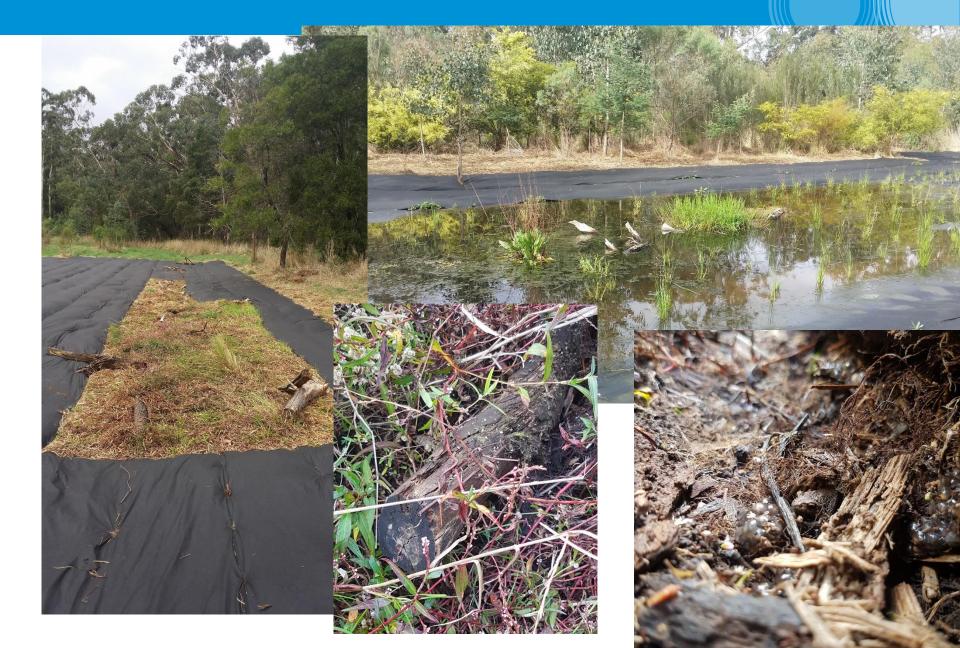


Pre-cast pond construction 2





Ponds and conflicting priorities: Yellingbo



The troubleshooting bit....



Troubleshooting

What about....

- Mosquitos
- Fish
- Birds predators, ducks
- Algae
- Azolla, lemna etc
- Aquatic weeds
- Leaf fall
- Snakes
- Pond drying up
- Turbidity
- Eggs laid/tadpoles but not enough food



Maintenance

Things you might need to manage:

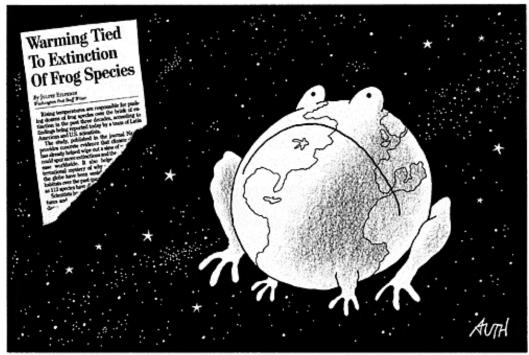
- Algae
- Azolla, lemna etc
- Leaf fall
- Desilting
- Rampant growth of aquatic plants
- Weeds
- Fountains & filters



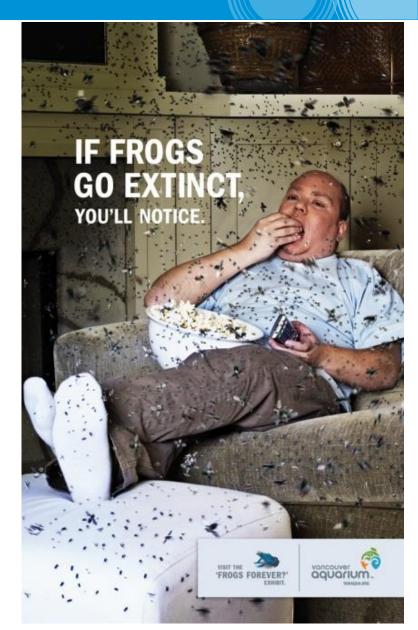
How to monitor your pond and frogs



Hop to it and get creative!



1.13.06 ON PROJECTIONS DIGHTER, WHERSH. PRESS SHOPLING.



Thankyou!

Please contact Melbourne Water for more information.

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Frog Census Facebook Group:

http://www.facebook.com/groups/MWFrogCensus

Webpage:

https://www.melbournewater.com.au/water-data-and-education/get-involved/be-citizen-scientist/frog-census

