Sunshine Coast Council

Tidal, non-tidal and freshwater constructed water bodies (CWBs)









Workshop – 22 July 2013 Lake Kawana Community Centre

Workshop Objectives:

- Detail the current management arrangements associated with CWBs
- Discuss the complexity and range of issues associated with CWBs
- An understanding of council's current planning policy approaches
- Site visits to examples of CWBs

Overview

Fresh

- 78 systems (61 hectares)
- Shallow and deep freshwater lakes
- Brackish lakes
- Significant growth forecast, e.g. Caloundra South (70 hectares)

Tidal/Non-tidal

- 6 artificial lakes, e.g. Parrearra, Pelican North, Mountain Creeks
- Significant growth forecast, e.g. Lake Kawana, Twin Waters

Management



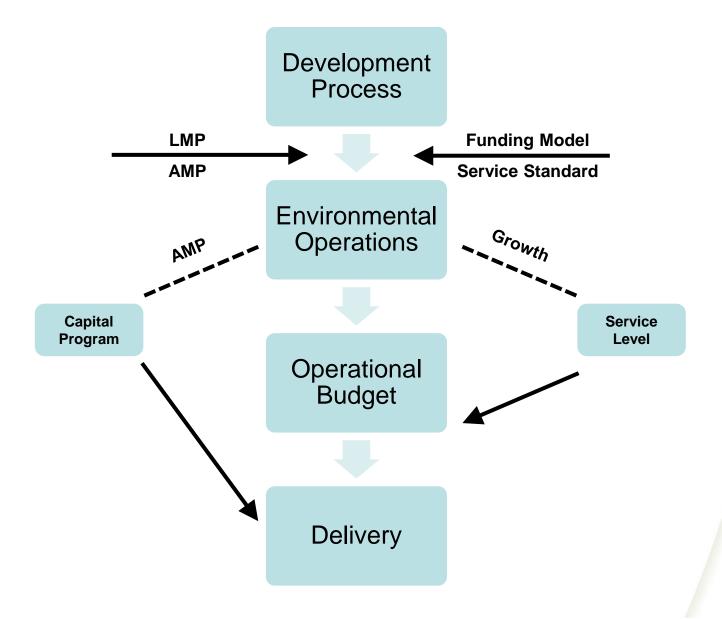
^{*} Please note this does not include canal systems.

Infrastructure (council responsibility only)

Asset/Service	Quantity	Service Level
Revetment walls	7.7 km	Programmed
Scour Protection	30 km	Programmed
Locks & weirs	3	As per individual AMP's
Tidal control structures	3	Programmed
Boat Ramps	2	Programmed
Jetties & pontoons	5	Programmed
Rock walls	4.1 km	Programmed
Aquatic Vegetation	>350 t	*Low – very high
Litter Management	>9 t	*Low – very high

^{*} dependent on lake assessment in terms of legislative, risk, environment & community

Process

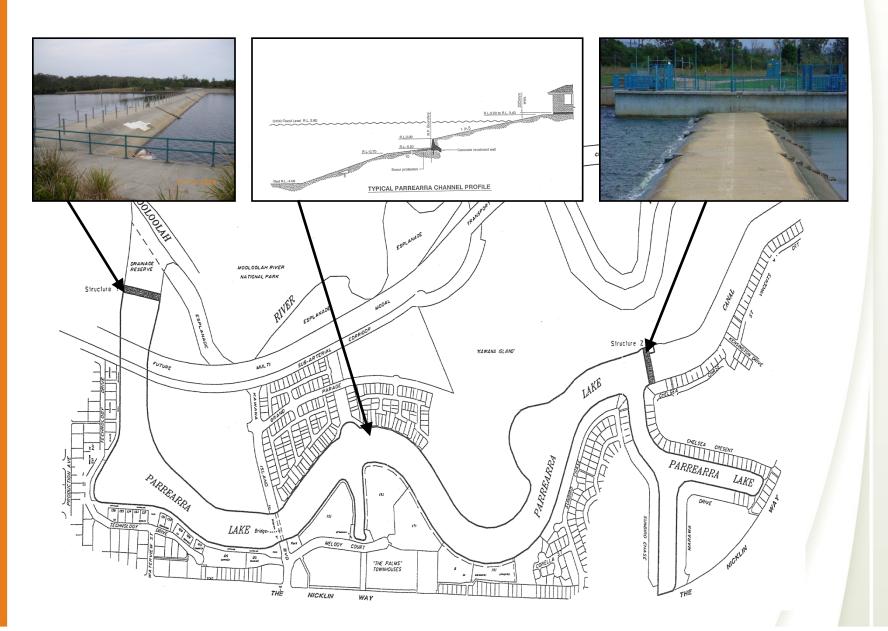


Site Visit Asset Scope

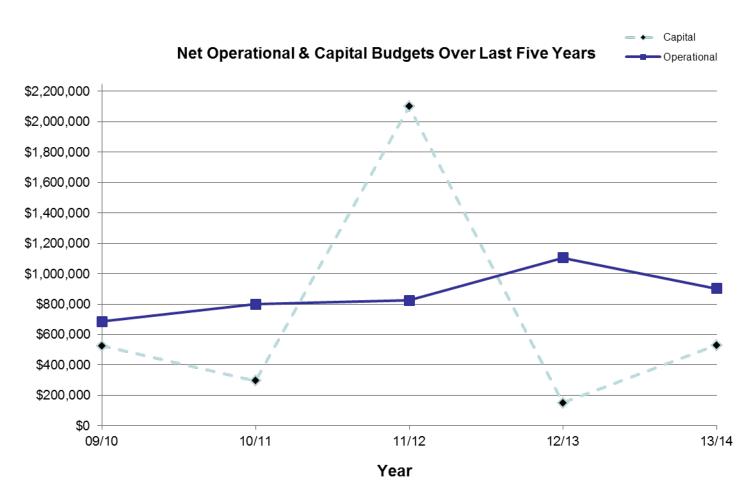
Lake System	Current Owner	Management Legislation	Lake Management Plan	Fresh or Tidal/ non Tidal	Infrastructure Assets	Funding Scheme	Ocean Access	Function
Parrearra Lake	State T/Ship (sport & rec)	Land Act	In place	Non	Lock Weirs Penstock Revetments	Rates & revenue*	Yes	Flood conveyance & recreation
Twin Waters	Developer (to be freehold under trust)	Land Title Act	Draft	Non	Weir Boat Ramp Rock Walls	Rates & revenue*	No	Flood conveyance & recreation
Sunshine Cove	Developer (to be T/Ship for drainage)	Land Act	Draft	Non	Weir Sal Exchange	Sinking fund	No	Flood conveyance & recreation
Pelican Waters Northern Lake #	Council (freehold)	Local Government Act	In place	Non	Weir Lock Revetments Sal Exchange	Sinking fund & revenue*	Yes	Flood conveyance & recreation
Lake Kawana	Developer (to be freehold under trust)	Land Title Act	In place	Non	Weir Revetments Sal Exchange Rock Walls	Rates & revenue*	No	Flood conveyance & recreation

- Revenue can be access cards, lease fees associated with jetties and pontoons.
- # Lock and weir transferred to council; pontoon and jetty leases managed by council; cards, lake and salinity exchange still with developer.

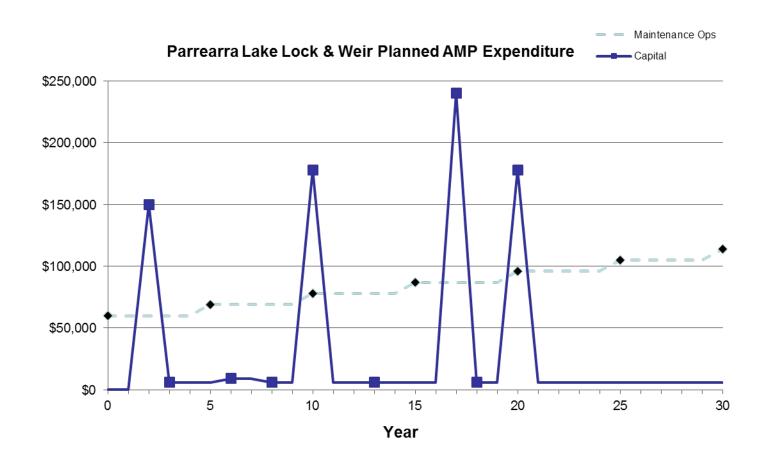
How it Works



CWB Budget Over Last Five Years



Asset Expenditure Example



Pontoon/Waterway Leases

- Council currently manages pontoon/waterway lease areas within Parrearra Lake and Pelican Waters Northern Lake. Lakes at Twin Waters and Lake Kawana, Birtinya are proposed to transfer to Council.
- Lease areas in each lake are different, e.g. Parrearra and Pelican Waters Northern Lake systems permit larger marine structures to cater for ocean going craft; Twin Waters Lake permits smaller structures for kayaks and tinnies.
- Annual lease fees are:
 - calculated on a fair market rental value for the lease area
 - undertaken by an independent, qualified and registered valuer
 - dependent on the characteristics of each lake, and
 - in accordance with lease terms and conditions.
- Current lease fees:
 - Lease fees are incidental to funding for use or maintenance obligations relating to the surrounding land or lock & weir structures. However, 'net' revenue from annual lease fees may be applied to these maintenance obligations.

Lake	Number of Leases	Anticipated Revenue 2013/2014
Parrearra Lake	100 lease structures	Approx. \$50,700
Pelican Waters Northern Lake	106 vacant lease sites	Nil
	62 lease structures	Approx. \$30,000

Planning & Development - History

Planning Approvals

 Approvals - over many decades through varying development approval systems – Local Govt. Act, Land Act, Planning & Environment Act, IPA, SPA.

• Infrastructure & life cycle costs

 Historically, planning & legislation frameworks often dealt with lakes & water bodies without detailed consideration of infrastructure maintenance, replacement & other life cycle implications.

Conditioning, agreements & funding

 Mechanisms 'evolved' over time - often reflected scale of project, engineering/mechanics, intended function, legal framework, tenure, ownership & past experiences.

Current Planning Policy Approaches

Current planning policies

- Draft Sunshine Coast Planning Scheme contains a stormwater management code which addresses constructed water bodies:
 - CWBs are avoided as public assets unless there is an overriding need in the public interest
 - CWBs are designed, constructed and established to:
 - minimise maintenance and decommissioning costs
 - minimise the requirement for specialised maintenance equipment, and
 - are provided with an on-going funding source.

Determination of options available to council

- typical funding arrangements are considered during the initial planning assessment phase.
- interdepartmental collaboration occurs with consideration of whole of life cycle costs and concentration on council capacity to sustainably maintain the water body (triple bottom line).

Current Development Projects in Pipeline

Caloundra South (EDQ - State)

 In accordance with EDQ (State) development approvals - more than 20 water bodies (about 70ha) of varying form & function.

Maroochydore Central Precinct

 8 ha of lake for flood mitigation and distributed to achieve maximum amenity.

Pelican Waters – Proposed Southern Lake Precinct

- Proposed lake system (lock & weir) within a mixed use development precinct with direct waterfront allotments
- Preliminary approvals and Infrastructure Agreement in place

Challenges/Opportunities/Next Steps

- Growth
- Cost refinements for freshwater CWBs assets
- Recognition of all CWBs in asset planning
- Development Process
- Legislation
- Funding Arrangements
- Ongoing condition assessments for lake profiles