

# Water Supply Overview



This is not an ADB material. The views expressed in this document are the views of the author/s and/or their organizations and do not necessarily reflect the views or policies of the Asian Development Bank, or its Board of Governors, or the governments they represent. ADB does not guarantee the accuracy and/or completeness of the material's contents, and accepts no responsibility for any direct or indirect consequence of their use or reliance, whether wholly or partially. Please feel free to contact the authors directly should you have queries.

# Melbourne & Catchments



# Melbourne's Water Supply System

## Service Reservoirs X

There are around 40 service reservoirs dotted across suburban Melbourne that temporarily hold water before it makes its way to your tap.

They range in size (from 2 to 250 million litres) and are often located on hills so that water can be transferred via gravity instead of more power-intensive pumping.

### Water flows in from:

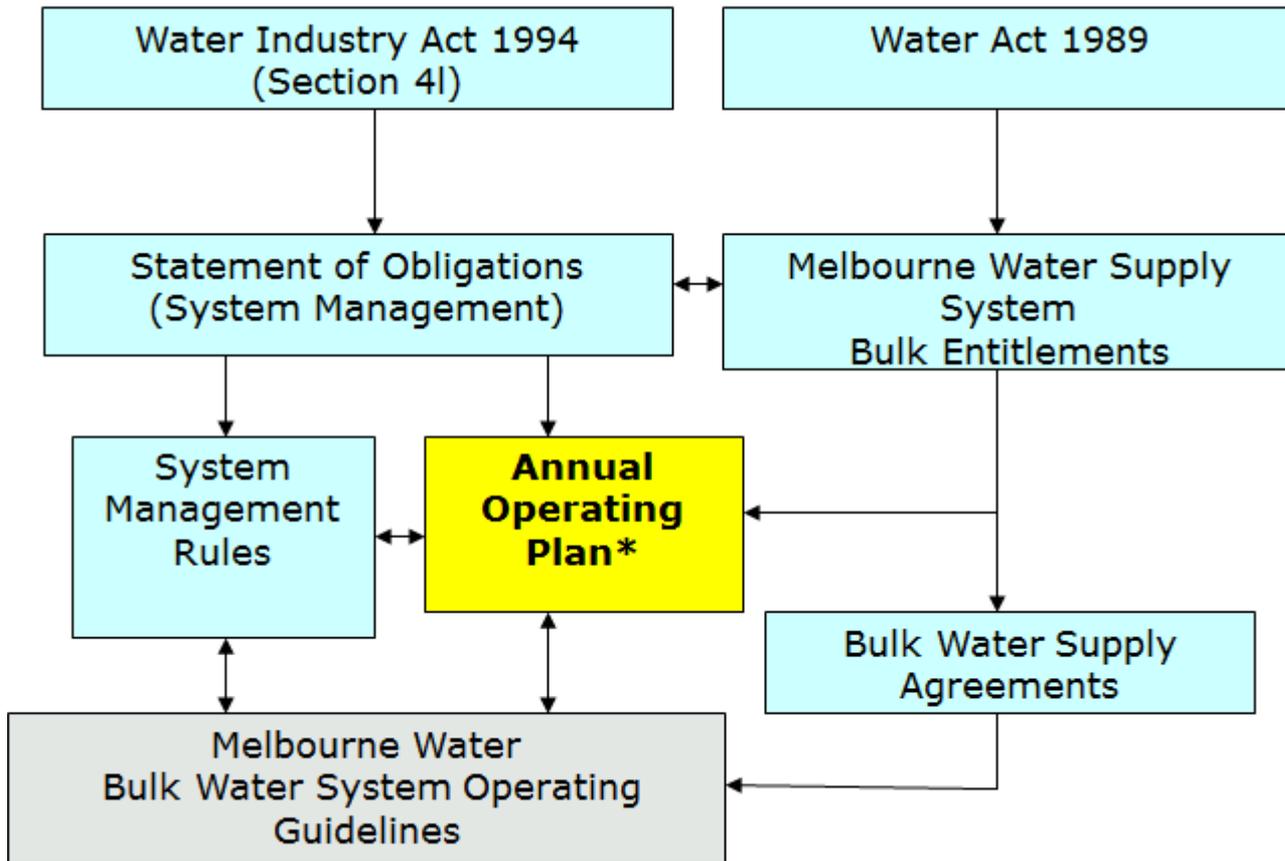
- Silvan Reservoir
- Cardinia Reservoir
- Greenvale Reservoir
- Sugarloaf Reservoir
- Tarago Reservoir
- Yan Yean Reservoir

### Water flows out to:

- Households and businesses across Melbourne via water retailers' network of pipes



# How we are governed



\*AOP OBJECTIVES:

Maximise Harvest  
(minimise spills)

Optimise Water  
Quality

Optimise Cost

Ensure All Obligations  
are met  
(Environmental flows,  
Irrigation releases etc.)

# Key Considerations in Water Provision

## **Security of Supply – Short & Long Term**

Current storage levels & climate outlook

## **Customer Obligations & Preferences**

Water quality, pressure, quantity, environmental flows

## **System Optimisation**

Source costs & maximising hydro generation where possible

## **Major Capital & Maintenance**

Managing risk with customers to enable system continuity and flexibility

## **Operational Planning Assumptions & Constraints**

Demand forecasts, system constraints, coal tar mains

## **Unplanned events**

Bushfire, pipe bursts, facility failure



# Delivering Transformation in Water Supply

## **Operators to Optimisers**

### **Deploying People to do tasks**

e.g.. Mobile computing, continued focus on automation across system, introduction of civil headwork's team

### **Decision Making with Better Information**

e.g.. ODS, Maintenance focus, Winneke optimisation

### **Safety from Compliance to Commitment**

e.g.. Focus on hazard reporting, electronic permits, chlorine review

### **Think Customer Valued Services**

e.g. partnership plans and continuing focus on relationship with retailers

### **Build Core Competencies**

e.g.. Cert 111 quals for water operators