Omaroro Reservoir Critical Expansion to City's Water Infrastructure



Need for the Omaroro reservoir

- Addresses a significant existing shortfall of safe drinking water storage
 - Supports planned population growth in the city
- Forms a key part of the planned response to delivering an emergency water supply to the Wellington CBD in the event of a natural disaster.



But how do we plug it in to the Wellington water network?





Thorndon PRV

Macalister Reservoir

718

Carmichael Reservoir

Hataitai Tunnel

Kilbirnie

Current Operational Challenges



Difficulty getting water to city from Macalister



Thorndon PRVs deliver up to 10 ML/day direct from bulk network



Carmichael Res level drops under peak demand











Thorndon PRV

Adding Omaroro

Omāroro Reservoir

Macalister Reservoir Carmichael Reservoir

Hataitai Tunnel

Kilbirnie





Operational Challenges update: with Omaroro



Difficulty getting water to city from Macalister

Solved - Omaroro is well-connected to city



Thorndon PRVs deliver up to 10 ML/day direct from bulk network

Solved - Pressures in city higher, flow drops to 1 ML/day



Carmichael Res level drops under peak demand

Improved - Bus tunnel flows reversed by 3 ML/day

Model Recommendations



Thankyou

