



GWMWater

Grampians
Wimmera
Mallee

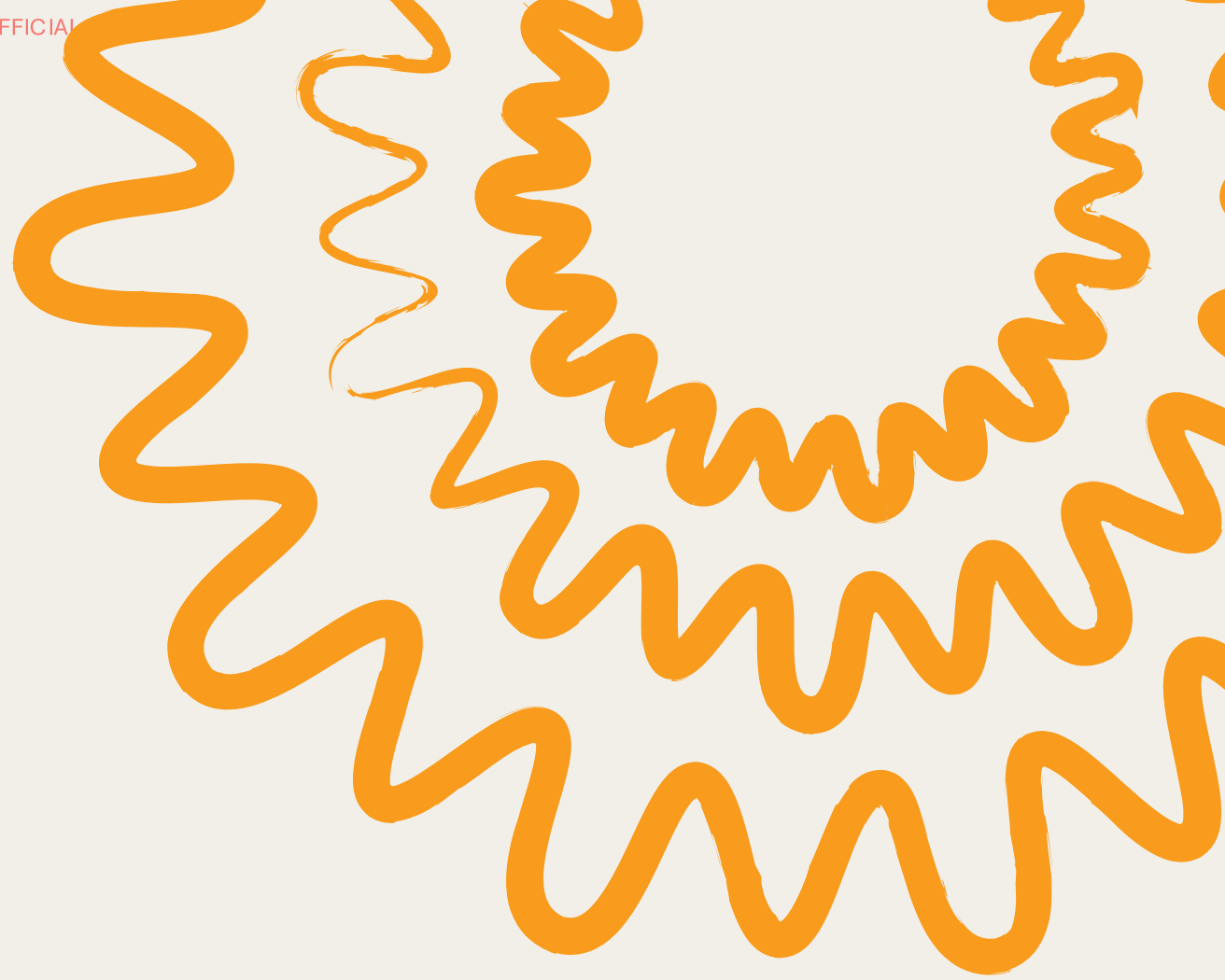
Infrastructure Augmentation Strategy

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What's Next?



Infrastructure Augmentation Strategy

- Outlook for next 25 years of infrastructure augmentation
- Building on Water Supply Augmentation Options Assessment
- DEECA funded - \$300K with matching funds from GWMWater
- All major users online
 - Mineral Sands
 - Viticulture
 - Intensive Ag
- Pipelines across GWMWater footprint
 - Southern Wimmera North Pyrenees Rural Pipeline
 - West Grampians Rural Pipeline

Infrastructure Augmentation Strategy Objectives

- Strategy aligns with GWMWater Vision and our Strategic Goal 3.
- Develop a long-term infrastructure strategy.
- Modernise our operations and infrastructure.
- Articulate augmentation initiatives and triggers.

Our vision

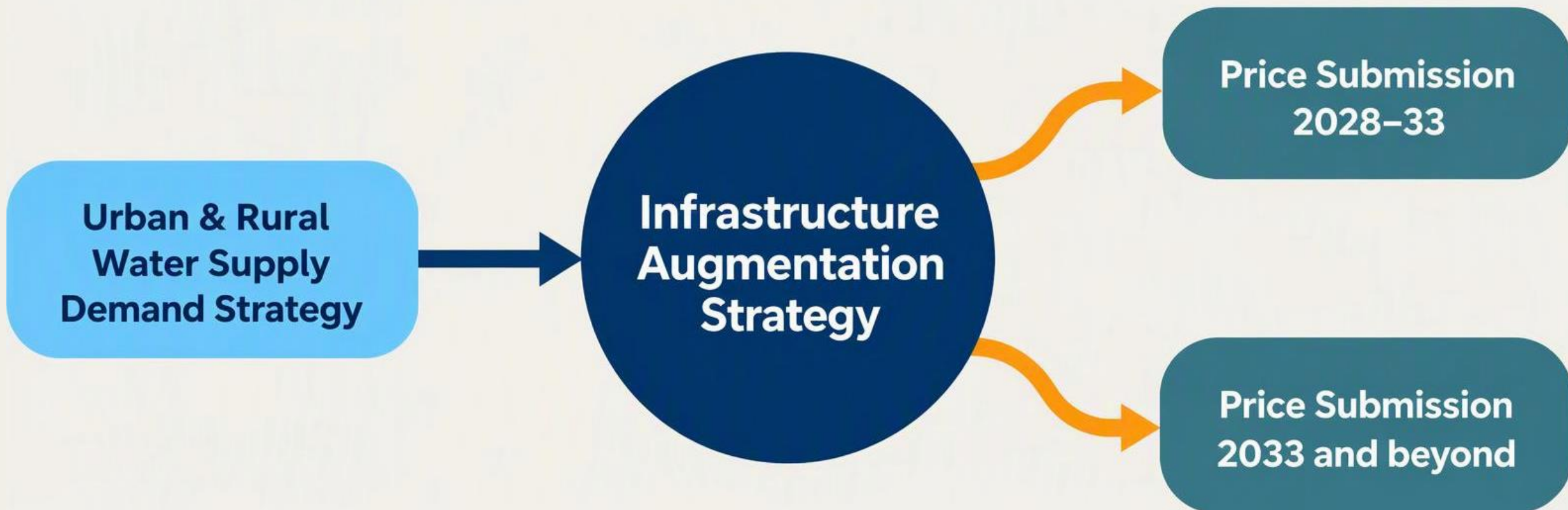
**Vital services
for thriving
communities.**

3.

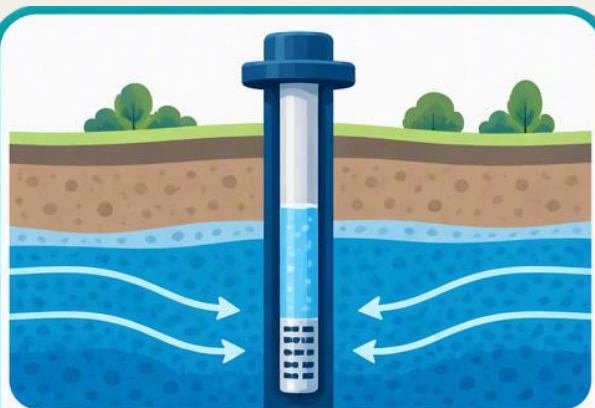
**Sustaining water
resources**

Meet our communities'
current and emerging
water demands.

Infrastructure Augmentation Strategy



Key Infrastructure Initiatives



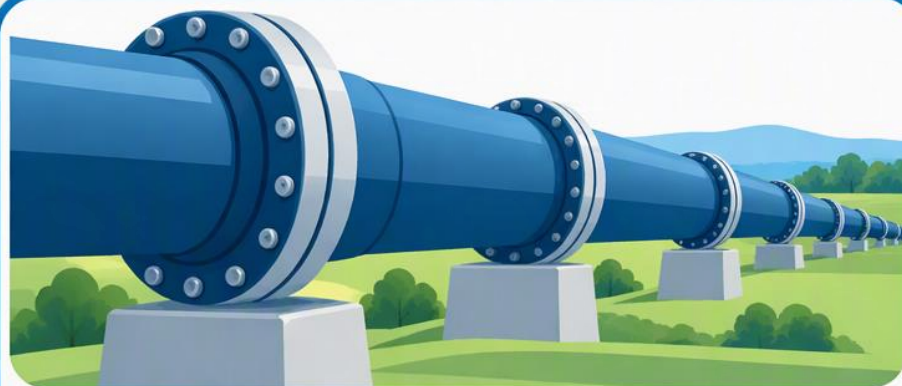
Groundwater



Horsham Supply



Waranga Channel



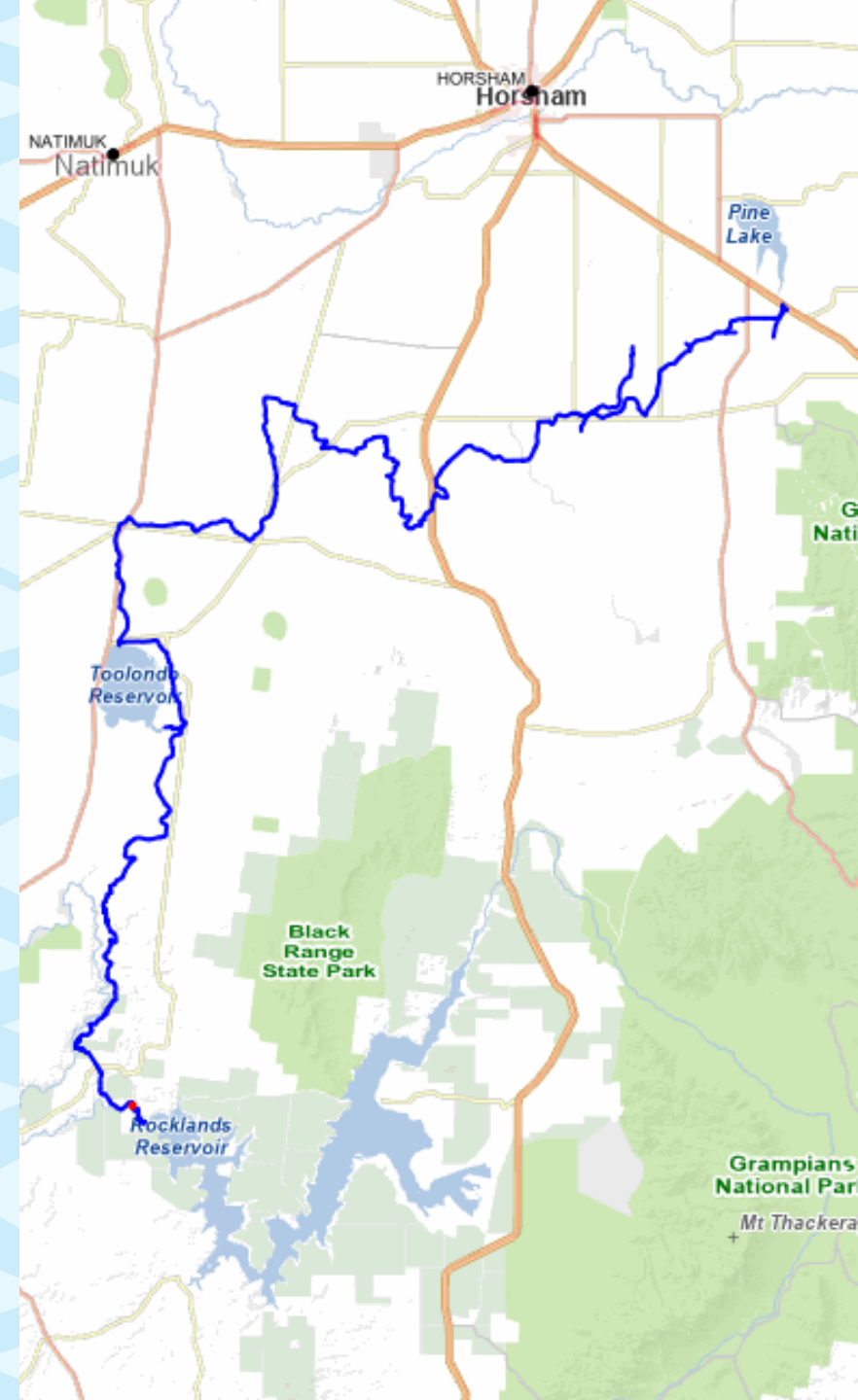
Rocklands-Taylors Pipeline



Treat Taylors Lake

Piping of Rocklands/Taylors Channel

- Existing open channel from Rocklands to Taylors Lake
- One of the last operational channels in GWMWater system
- Piping Reduces transfer losses
- Pump Station required to support piped flows
- Increase in demand and climate change will require more regular transfers
- Overlap with the Iluka mine at Toolondo, a section will be piped if the mine progresses



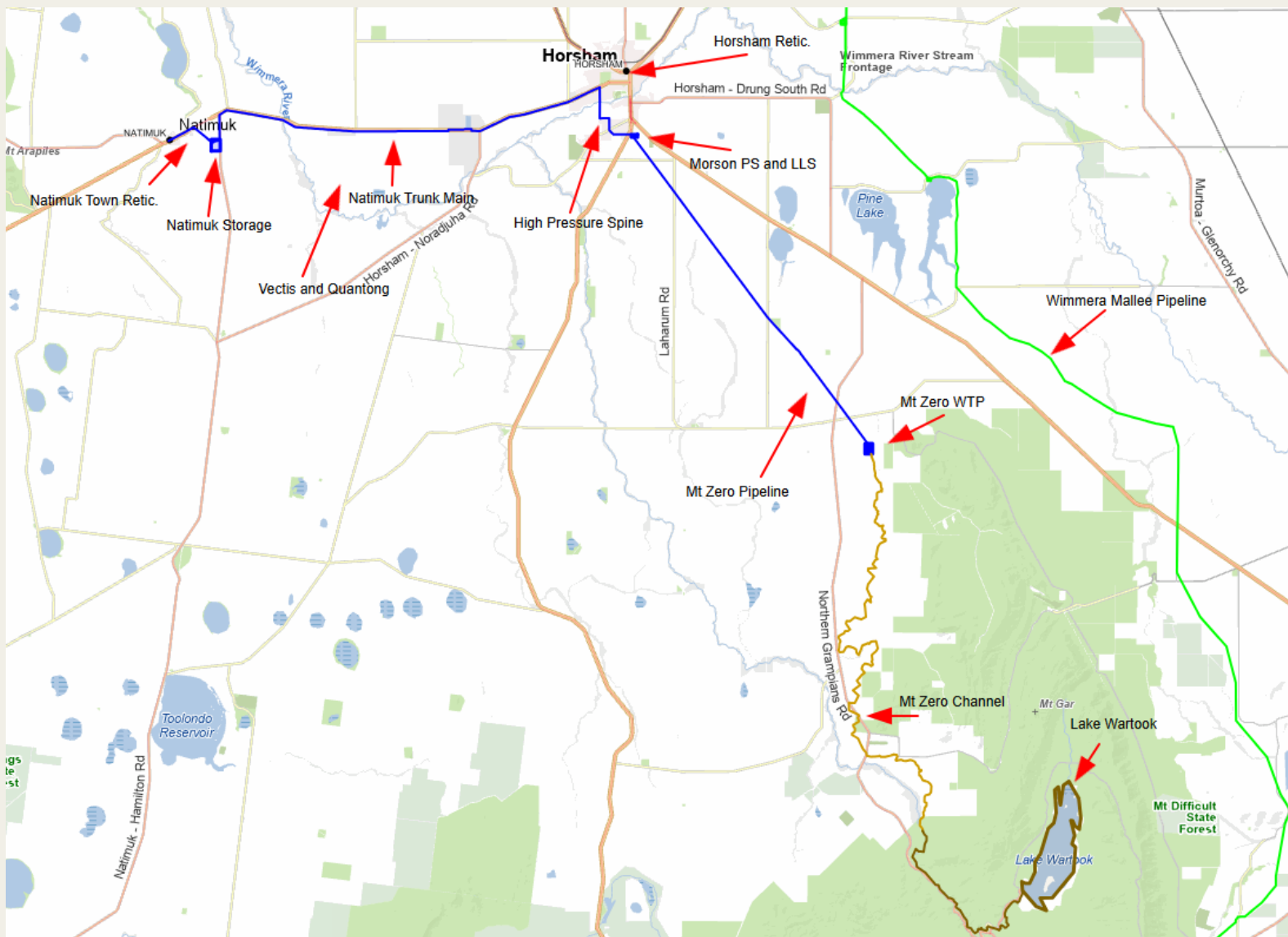
Piping of Rocklands/Taylors Channel

Planning factor	Current indication
Investment scale	+\$100 million
Additional Annual Volume	~2-3GL
Maturity	Concept Design
Delivery complexity	Medium
Main trigger	Climate and Demand triggers

Horsham Supply Resilience

- Horsham water supply chain currently has capacity to supply the township
- Horsham is attracting new industries and with it, is expected to grow
- Long term growth will require upgrades to the existing infrastructure
- Current Horsham supply reliant on Lake Wartook
- Options being assessed
 - upgrade of the Mt Zero water treatment plant;
 - upgrade or replacement of the Mt Zero Pipeline;
 - a pipeline to Mt Zero WTP from the Wimmera Mallee Pipeline;
 - piping of the Mt Zero Channel;
 - upgrades to the Morson Pump Station; and
 - potential secondary facilities that supplement existing treatment plants and pump stations.

Horsham Supply Resilience

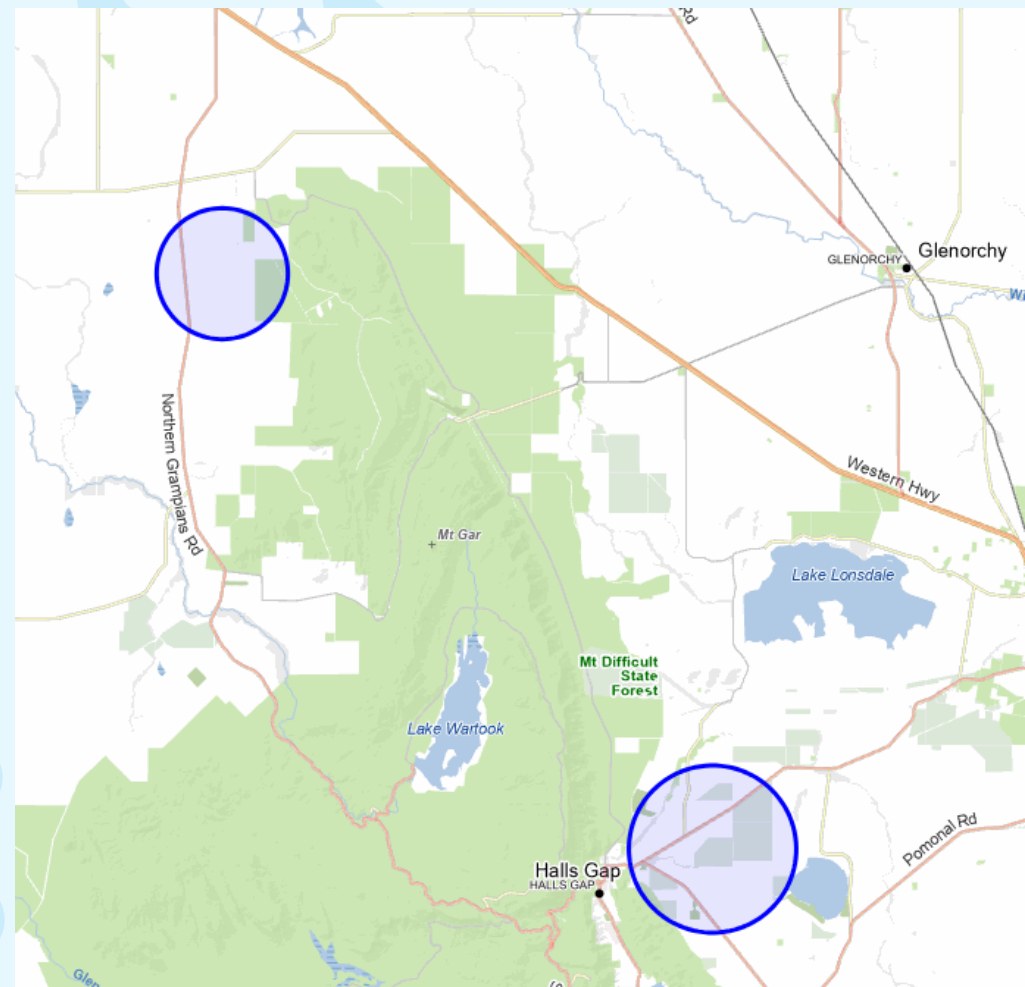


Horsham Supply Resilience

Planning factor	Current indication
Investment scale	\$10-50M
Additional Annual Volume	N/A
Maturity	Early concept investigation
Delivery complexity	Medium/High
Main trigger	Industrial & residential growth

Groundwater

- Identifying new sources of water
- Multiple aquifers in the Grampians untested
- Focus on Laharum and Halls Gap areas
- Mix groundwater into the rural pipeline system
- Sustainable yield under investigation
- Greater supply flexibility



Groundwater

Planning factor	Current indication
Investment scale	\$1-10 million
Additional Volume	1 – 2GL
Maturity	Early concept investigation
Delivery complexity	Low / Medium
Main trigger	Climate triggers

Waranga Channel Utilisation

- Utilises additional entitlement from Waranga Channel System
- Pipeline from Waranga to Taylors Lake
- Supply to Mineral Sands Mines and Recreational Lakes
- Fit for purpose water
- Reduces reliance on Lake Bellfield
- Improves system flexibility
- Staged options



Waranga Channel Utilisation

Planning factor	Current indication
Investment scale	+\$200M
Additional Annual Volume	~7GL
Maturity	Early concept investigation
Delivery complexity	High
Main trigger	Confirmed demand and funding sourced

Taylors Lake Treatment

- Taylors Lake is the 'back up' supply source for Rural Pipeline Network
- Lower Water Quality in Taylors vs Bellfield
- Taylors Lake filled from its own catchment, Wimmera River and Rocklands
- Option to build water treatment facility at Taylors Lake
- Improve water quality to be comparable with Lake Bellfield and supply into Rural Pipeline
- Supplement supply into the Rural Pipeline



Taylors Lake Treatment

Planning factor	Current indication
Investment scale	\$10-20 million
Additional Annual Volume	5GL
Maturity	Early concept investigation
Delivery complexity	Medium
Main trigger	Climate and Demand triggers