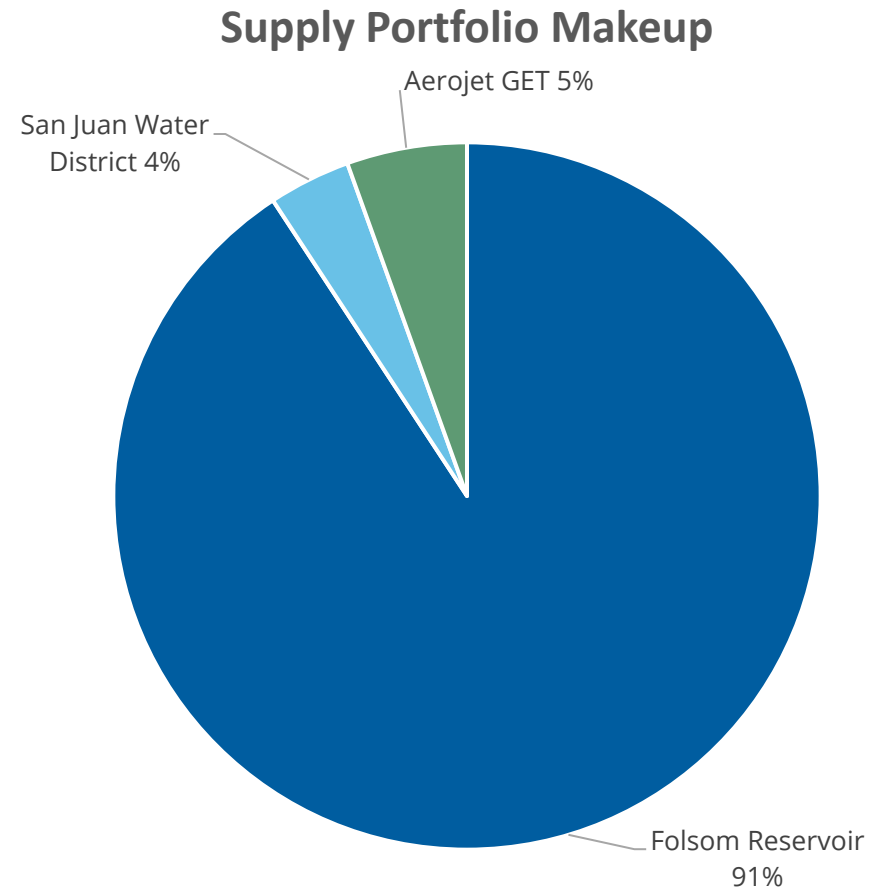


Table 1

CLIMATE PREDICATIONS AND FOLSOM RESERVOIR

Folsom's Existing Portfolio



All potable water comes from Folsom Reservoir!

American River Basin Study

How does the changing climate impact our water?



— BUREAU OF —
RECLAMATION



CITY OF
FOLSOM
DISTINCTIVE BY NATURE



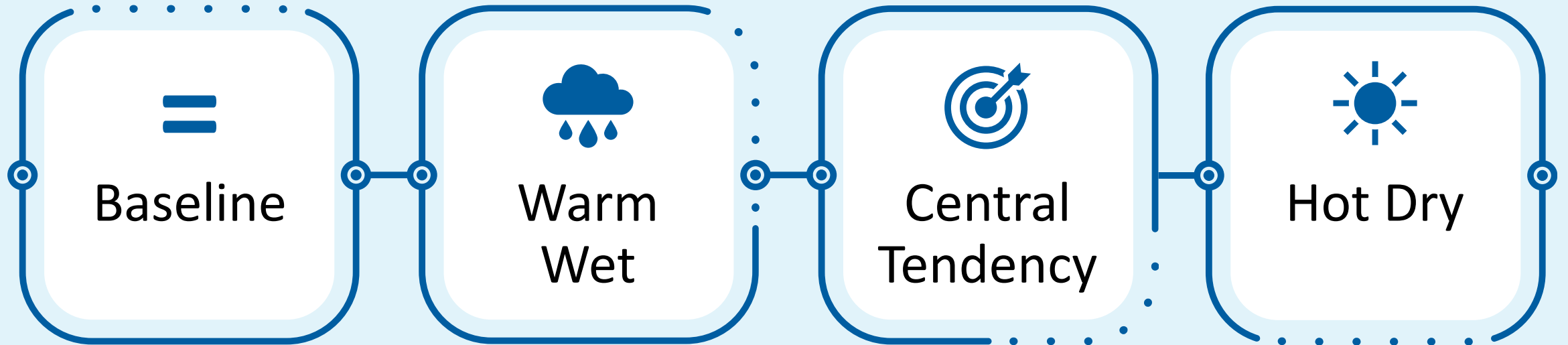
City of
SACRAMENTO



Regional **Water** Authority
Tapping the Possibilities™

American River Basin Study

FOUR CLIMATE SCENARIOS



Reservoir Simulation Inputs

HISTORICAL FOLSOM RESERVOIR DATA

- Reservoir inflows, outflows, evaporation, storage volume, and reservoir levels
- Used data from 1995 – Present

AMERICAN RIVER BASIN STUDY PROJECTIONS

- Probability of Water Year Type
- Expected Folsom Reservoir Inflows
- Projected Folsom Reservoir total storages

Folsom Water Vision's Folsom Reservoir Simulation

*How will
Folsom
Reservoir
act in the
future?*



Folsom Supply Assumptions

Water Year Type

- Wet: 100% Water Rights
- Average: 100% Water Rights
- Drier: 98% to 91% of Water Rights
- Driest: 60% of Water Rights

Build-out demand is expected to be less than 75% of water rights

Reservoir Level

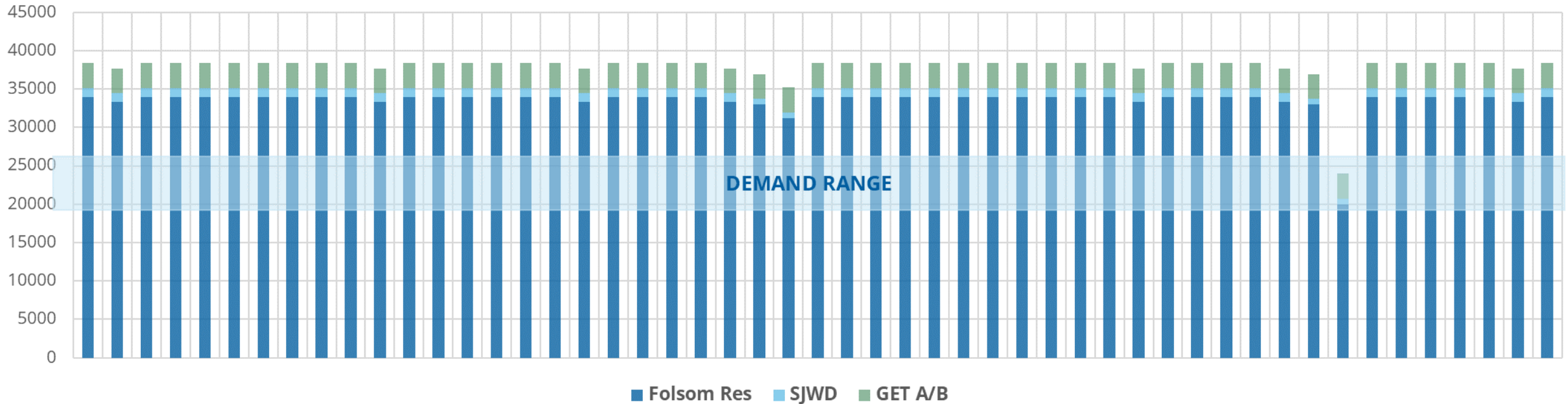
- Barge Level: Approx. 34% of Water Rights



Baseline Scenario

Like what we have experienced historically.

Projected Supply vs Demand

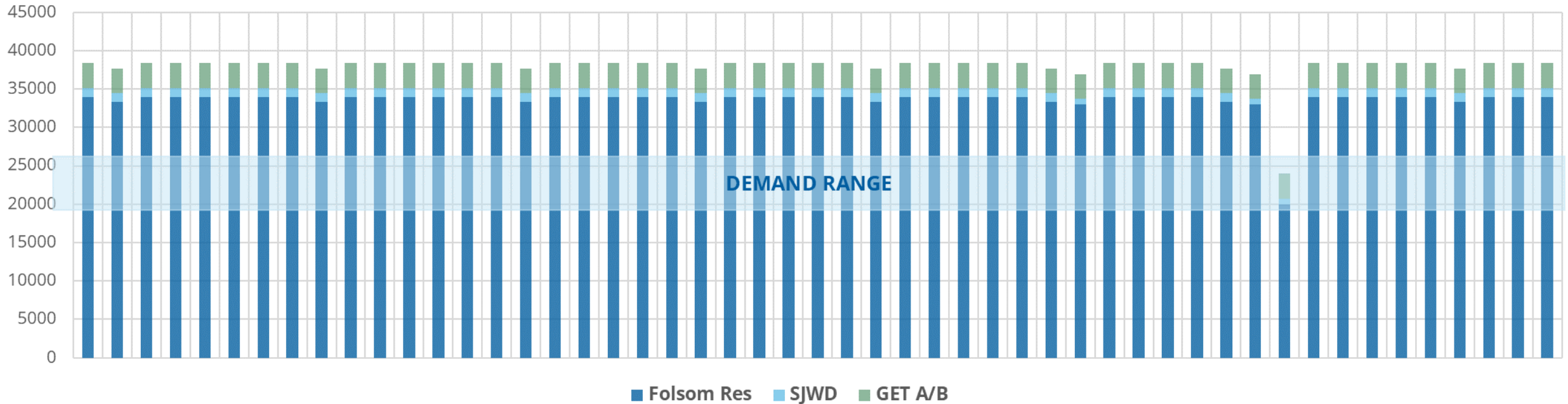




Warm Wet Scenario

Again, very similar to what we are used to.

Projected Supply vs Demand

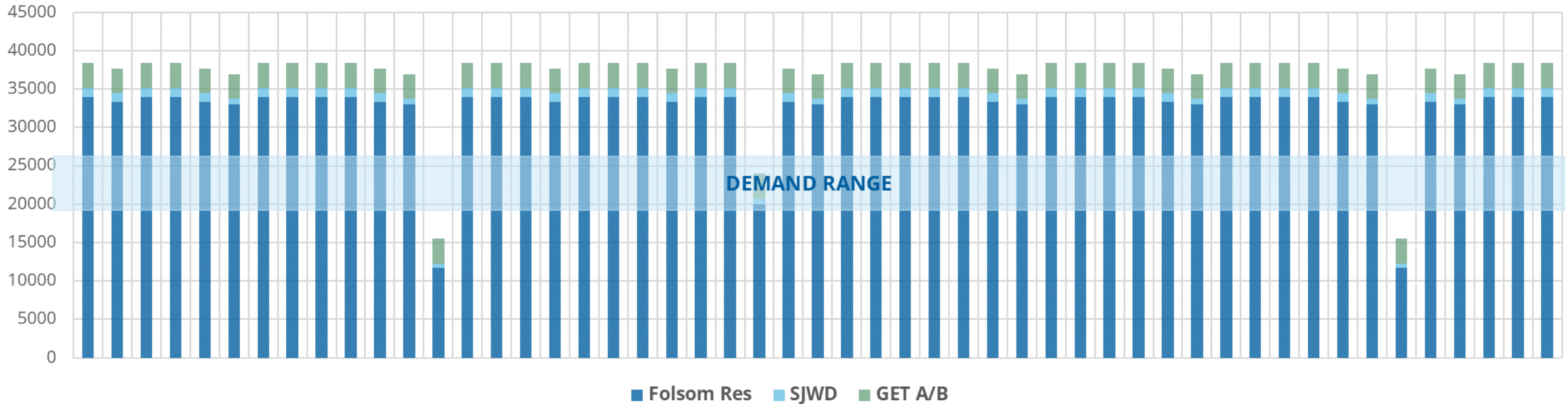


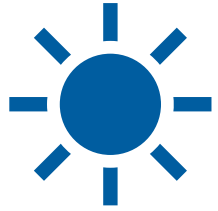


Central Tendency Scenario

Driest Water Year expected 3 out of every 50 years

Projected Supply vs Demand

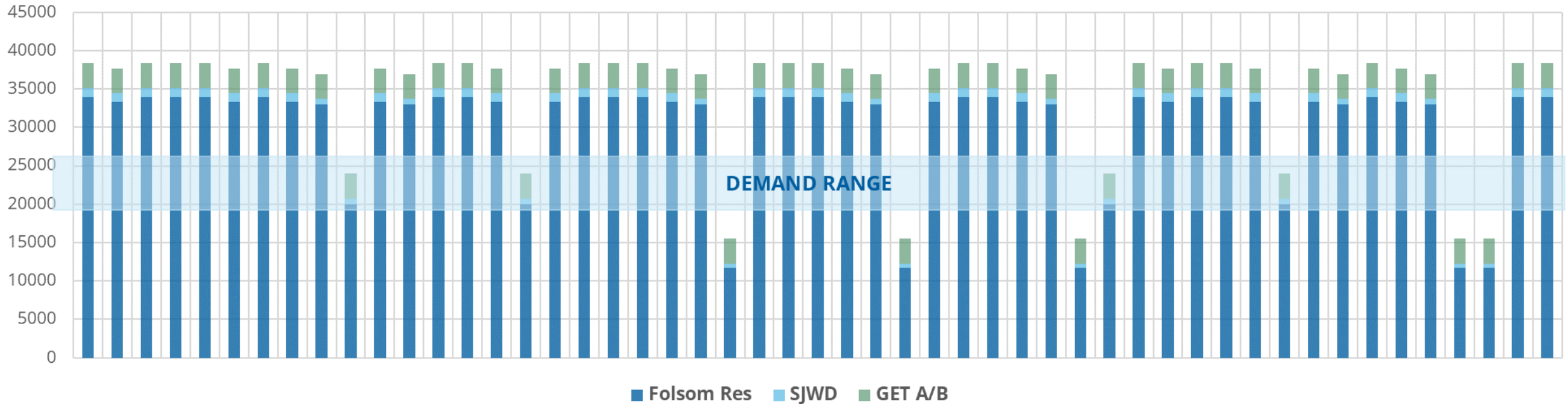




Hot Dry Scenario

Driest Water Year expected 9 out of every 50 years

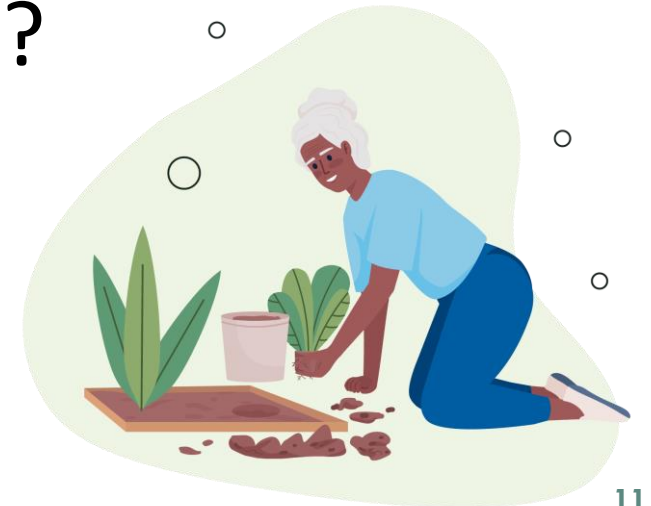
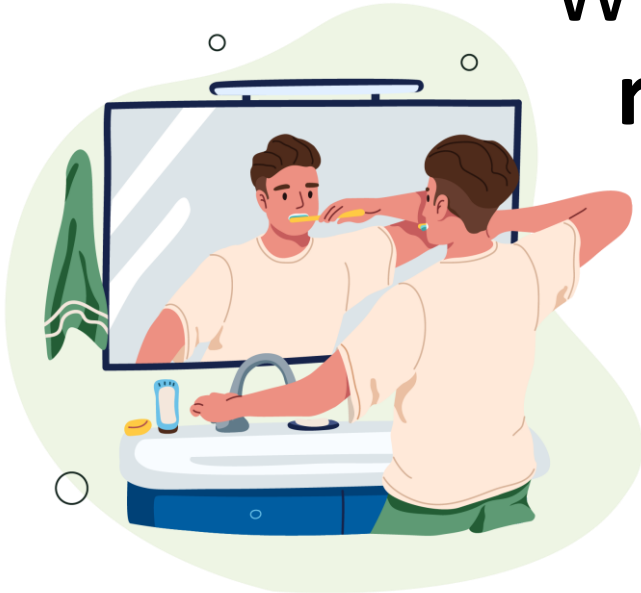
Projected Supply vs Demand



Discussion Question

What potential frequency of **extreme water shortage** could you tolerate?

What potential frequency of **water restrictions** could you tolerate?



Questions?



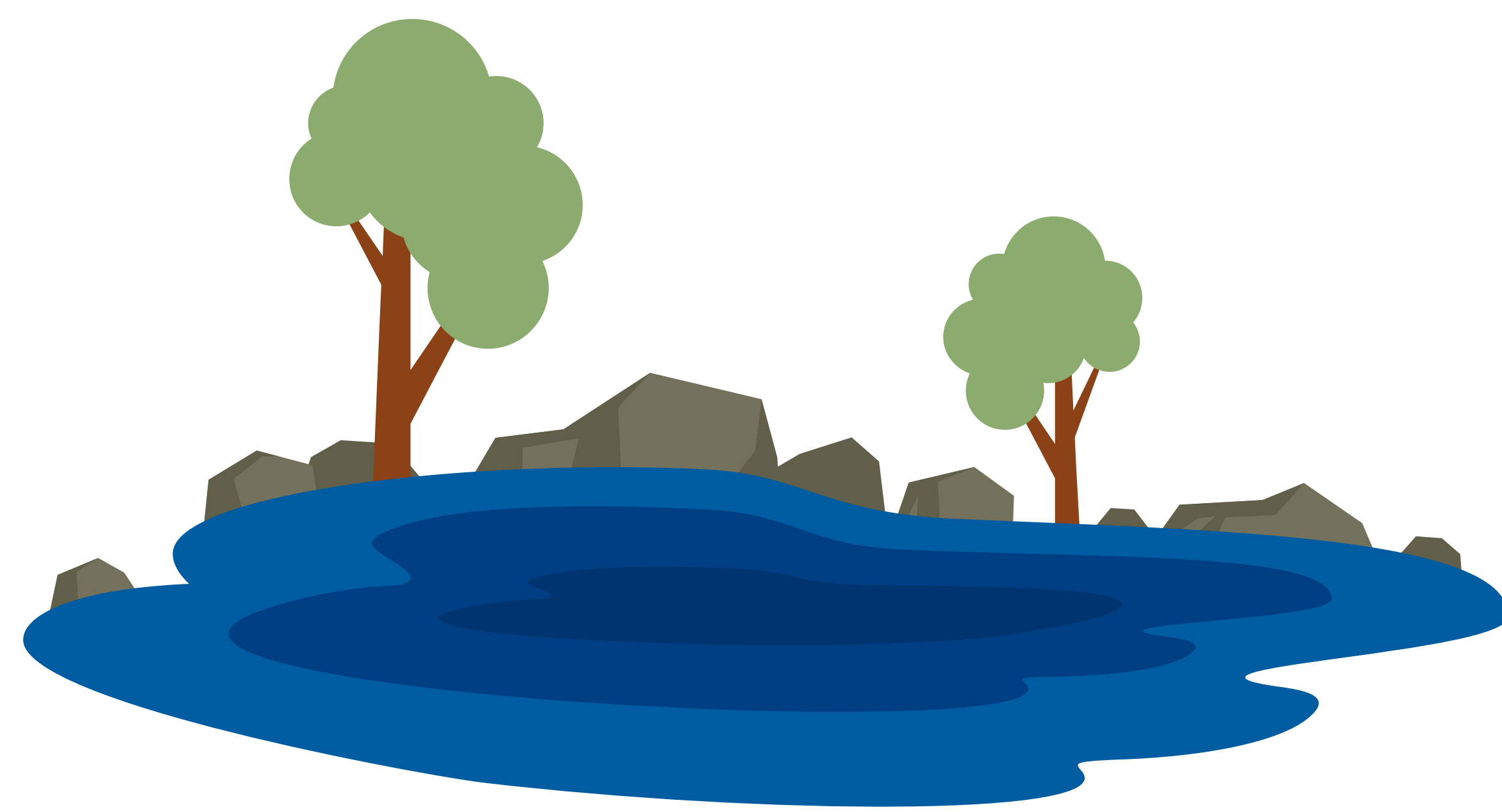


CITY OF
FOLSOM
DISTINCTIVE BY NATURE

FOLSOM WATER VISION WORKSHOP #2

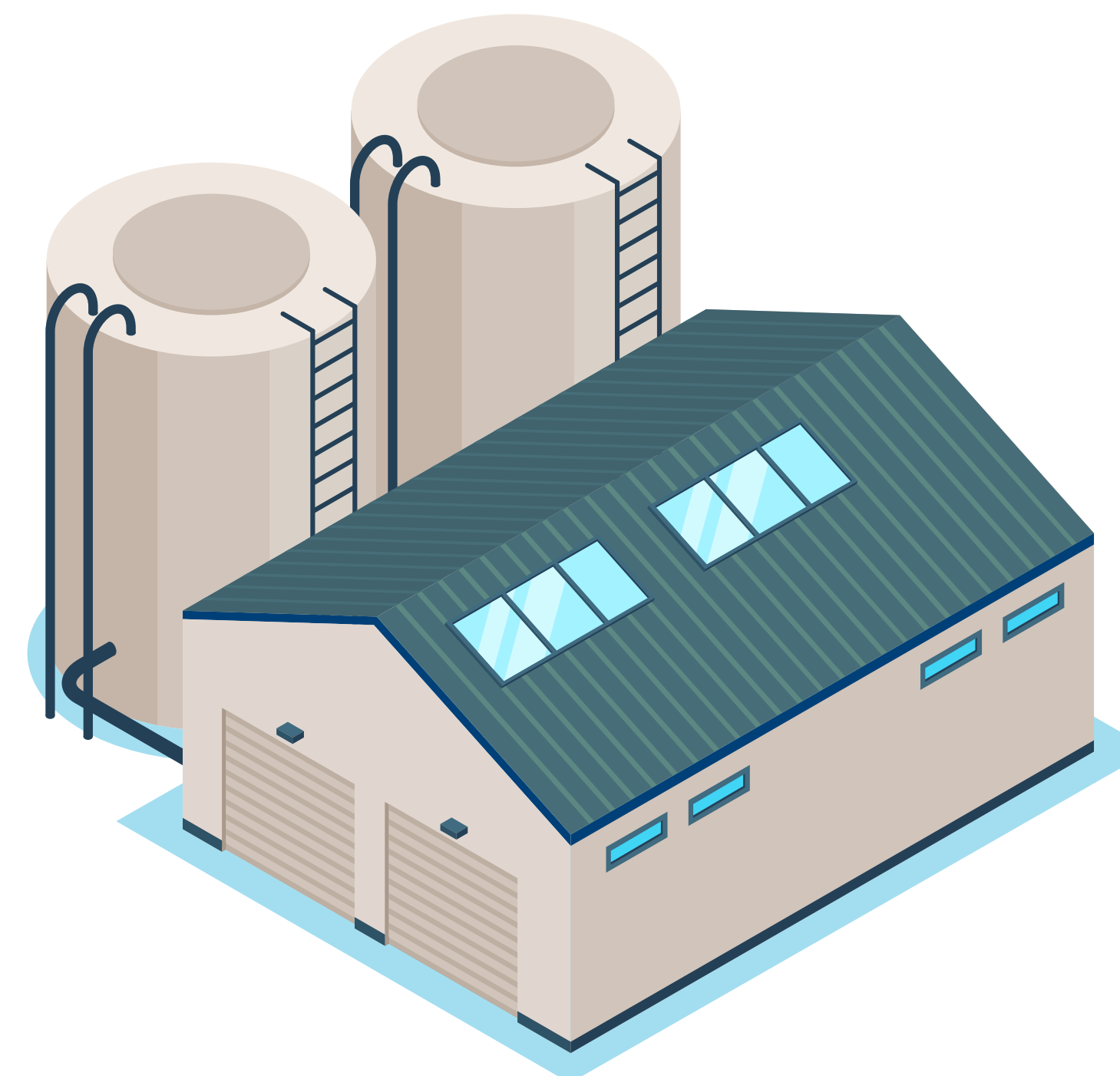
Understanding Our Water Supply & Its Risks

STATION #2



**WATER SUPPLY
(FOLSOM LAKE)**

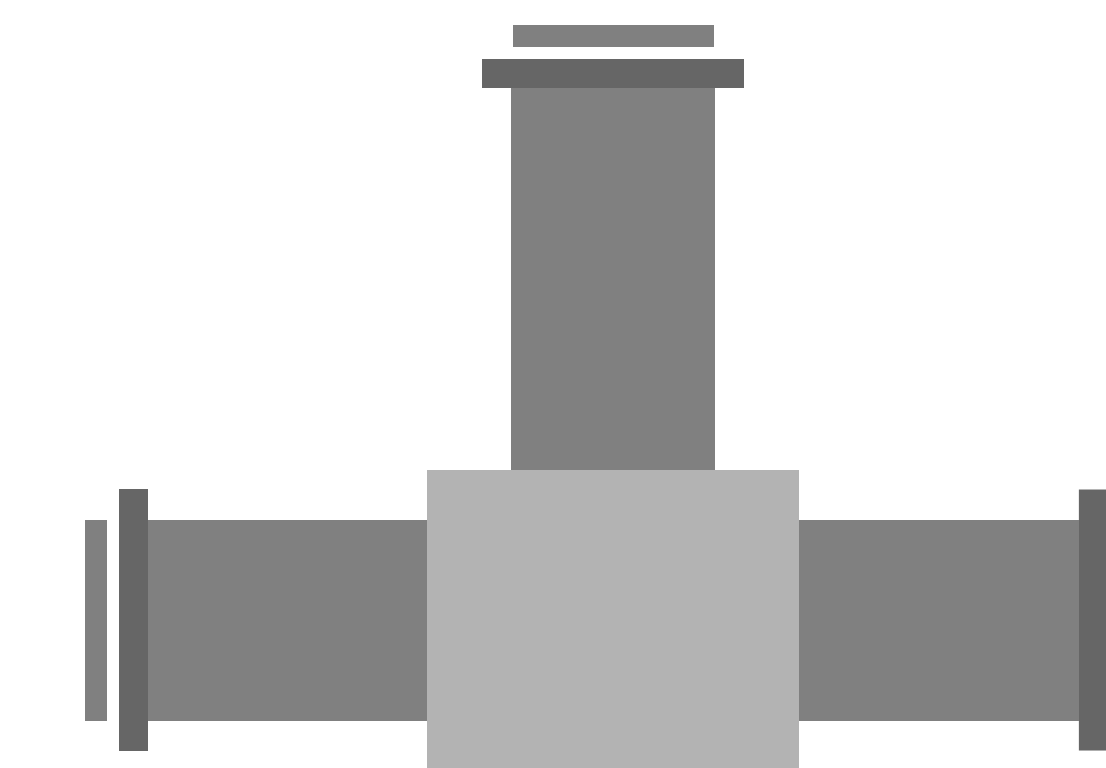
- Single source
Very stable water quality - two potential risks:
- Forest Fires
 - Lake Turn Over (big storm when lake is low)



**WATER TREATMENT
PLANT**

Nearing complete treatment redundancy at WTP. Complete redundancy will be considered in portfolios through:

- Adding Filter Capacity
- Providing redundancy for select pipelines within and immediately downstream of the WTP
- Standby generator capacity available for full WTP operations without Utility Power



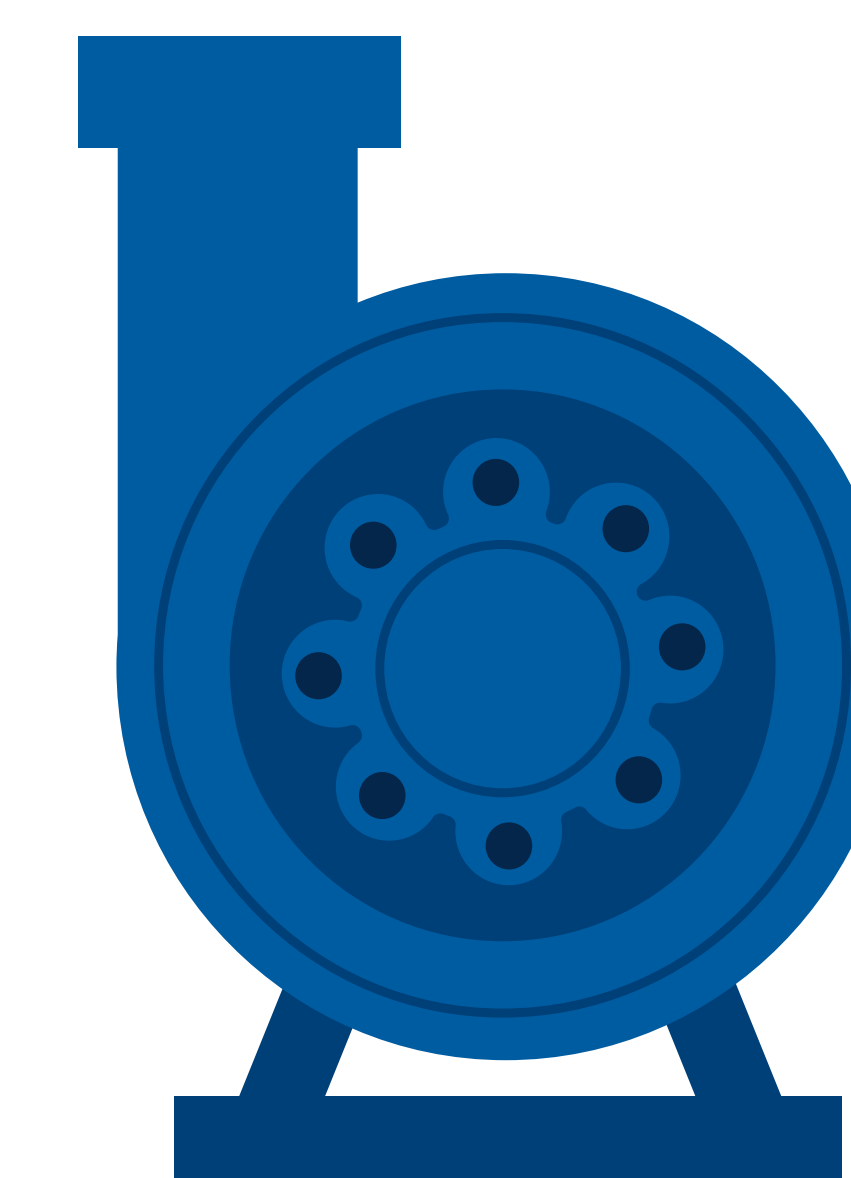
RAW WATER PIPELINE

- Single pipeline from Dam to WTP.
- Immediate water emergency if it failed, especially during summer (peak demands)
- Redundancy for pipelines will be considered in portfolios



STORAGE TANKS

- Storage provided by pressure zone and higher pressure zones back up lower zones. No tank stores more than 12% of the City's total storage. 12 total tanks in the system.



**TRANSMISSION MAINS
AND PUMP STATIONS**

- All pump stations have redundant pump and standby power provisions.
- Transmissions mains can be isolated and fed around in break scenario



Potential Supply Sources

