

# Water and Recycled Water Update

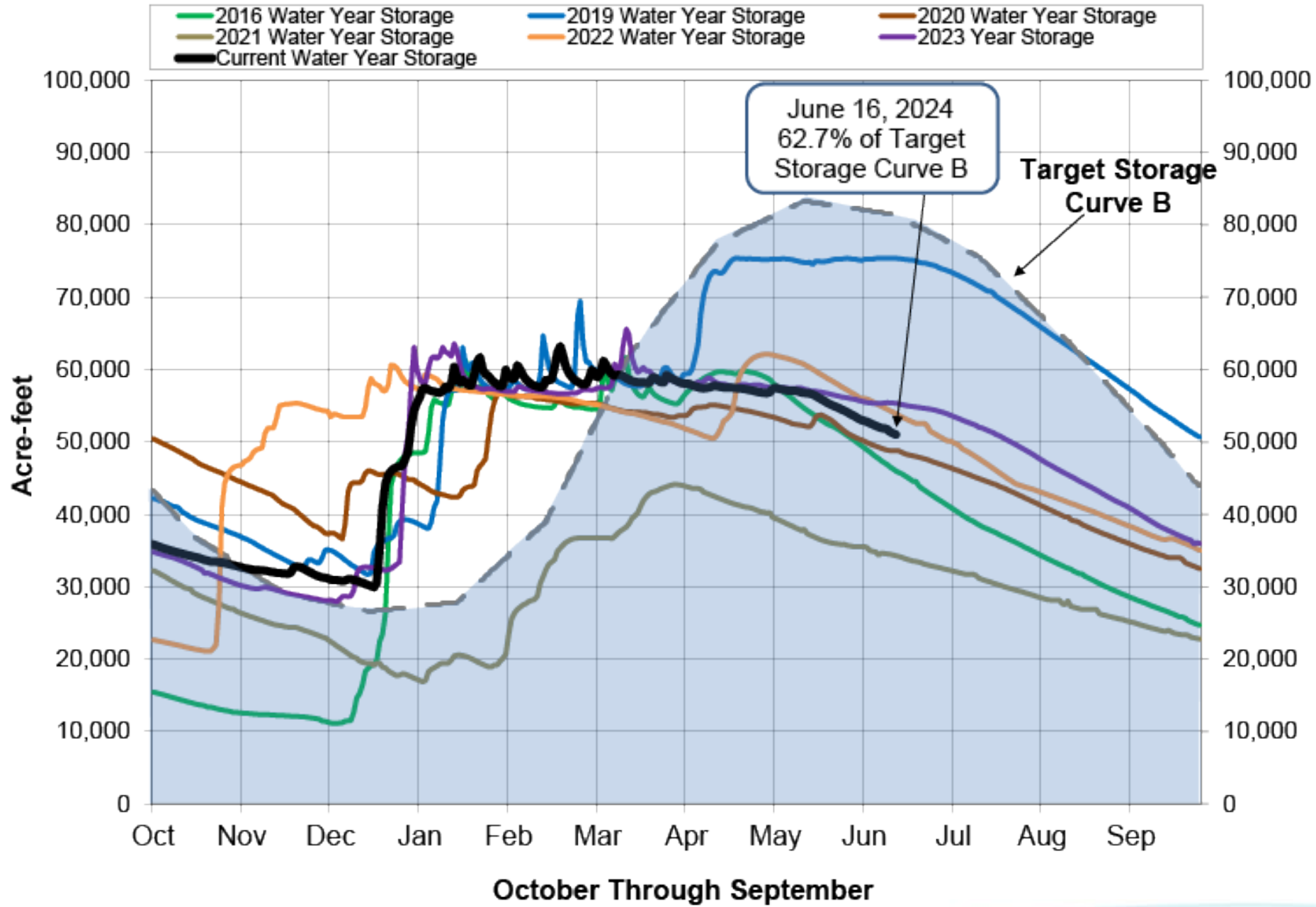
Board of Public Utilities Meeting

June 20, 2024

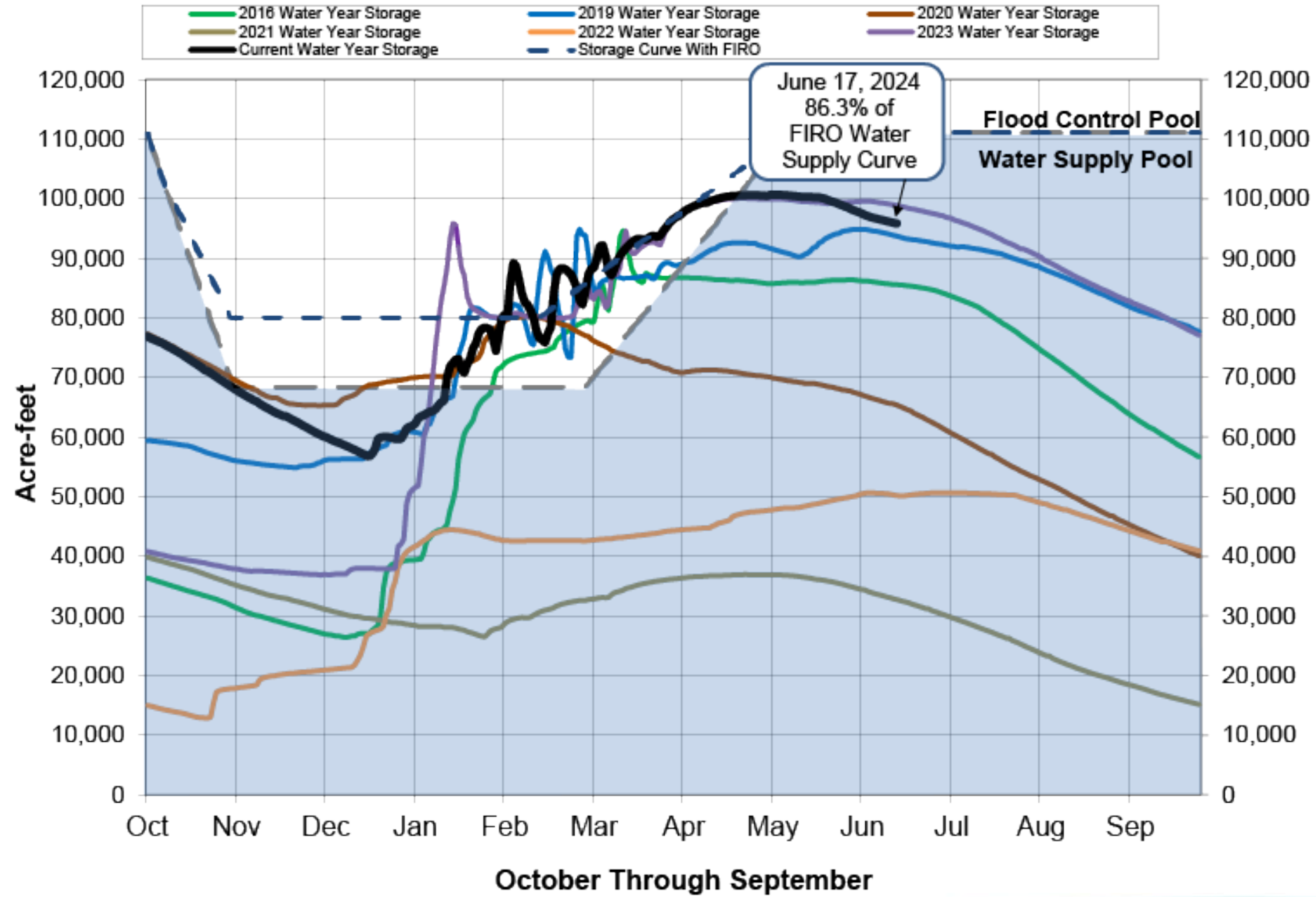
Claire Nordlie – Senior Water Resources Planner

Andrew Romero – Wastewater Reclamation Superintendent

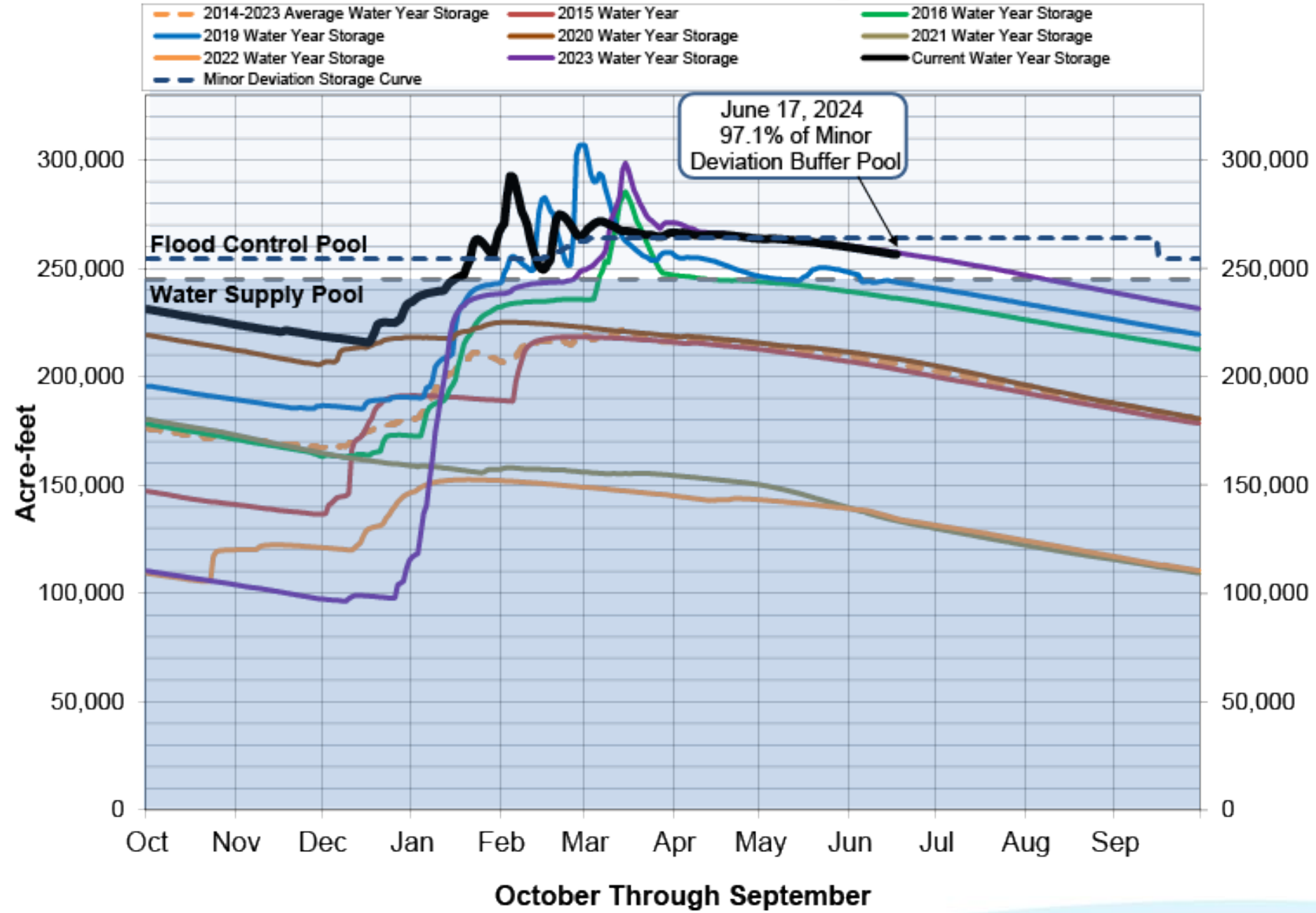
## Lake Pillsbury Storage



# Lake Mendocino Storage



## Lake Sonoma Storage



# WaterSmart Expo!

- WaterSmart Expo 2024
  - June 26<sup>th</sup>
  - Wednesday Night Market in downtown Santa Rosa
  - 5pm - 8:30pm





# Annual Water Supply and Demand Assessment

## Required for:

- Suppliers who provide 3,000 acre feet/year or more or serves 3,000 or more urban connections

## Purpose of Annual Shortage Report:

- Ensure reliable supply of water
- Evaluate water supply status for next year
- If a water shortage, prepare mitigation actions



# 1st Step - Estimate Unconstrained Water Demand for FY 2024-25

## Unconstrained demand

- Estimate of ordinary demand if upcoming year has normal rainfall (no drought restrictions on water use)
- City assumptions:
  - Population growth 0.5% per year
  - Gallons per capita per day rebounds to 2020 level (pre-drought)



# 2nd Step - Assess Water Supply for FY 2024-25

**State mandate for assessment: Assume dry year**

Sonoma Water

- Used driest year on record (1977) and current water supply to conduct hydrologic modeling
- Determined supply would be adequate to meet unconstrained demands

Santa Rosa Water

- 16 years of data show wells consistently produce ~7% of demand, even in dry years.
- 14 years of data show Regional Recycled System can easily meet demands of urban sites (<1% of total recycled water production), even in dry years.





# 3rd Step - Compare FY 2023-24 Estimated Demand vs Supplies

## POTABLE DEMAND → POTABLE SUPPLY

19,012 Acre Feet (AF)

17,712 AF - Sonoma Water

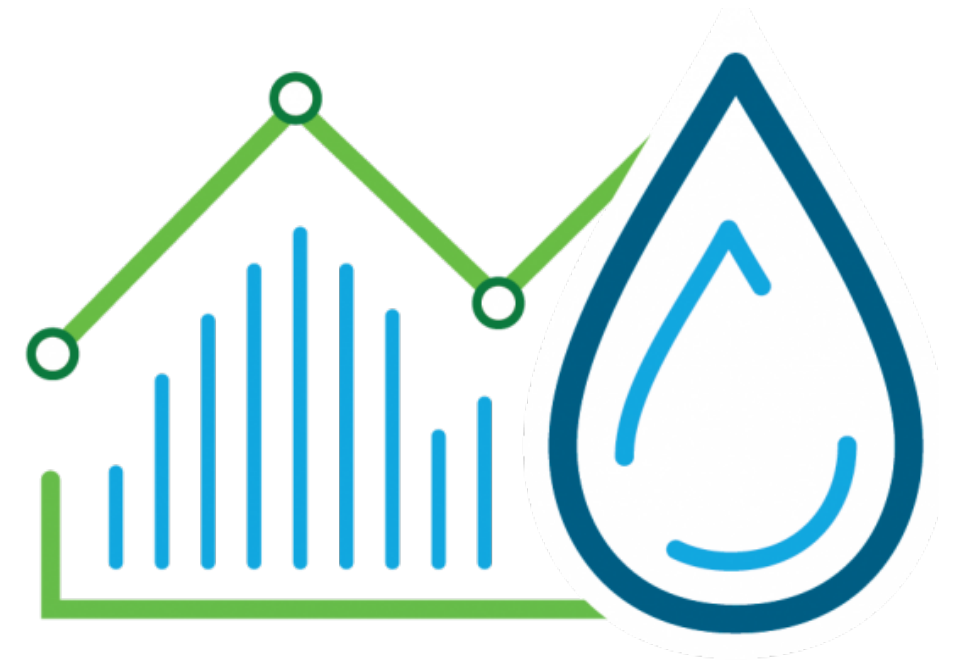
+ 1,300 AF - City Wells

19,012 AF

## RECYCLED DEMAND → RECYCLED SUPPLY

140 AF

140 AF



# 4th Step - Complete and Submit Annual Shortage Report

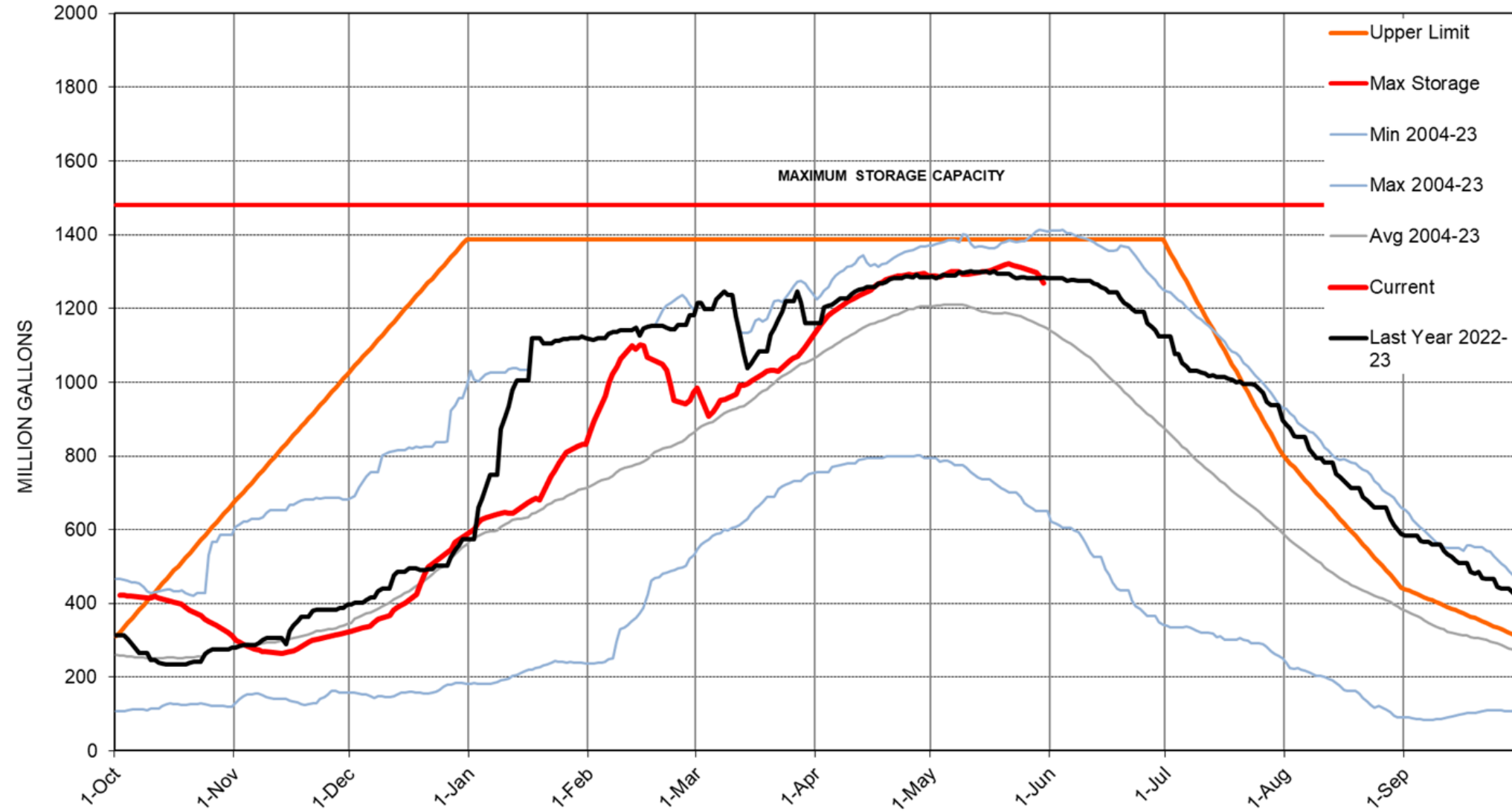
Dept of Water Resources required tables

- Table 1. Supplier Information
- Table 2. Water Demands
- Table 3. Water Supplies
- Table 4. Water Shortage Assessment
- Table 5. Planned Shortage Response Actions  
(if shortage projected)



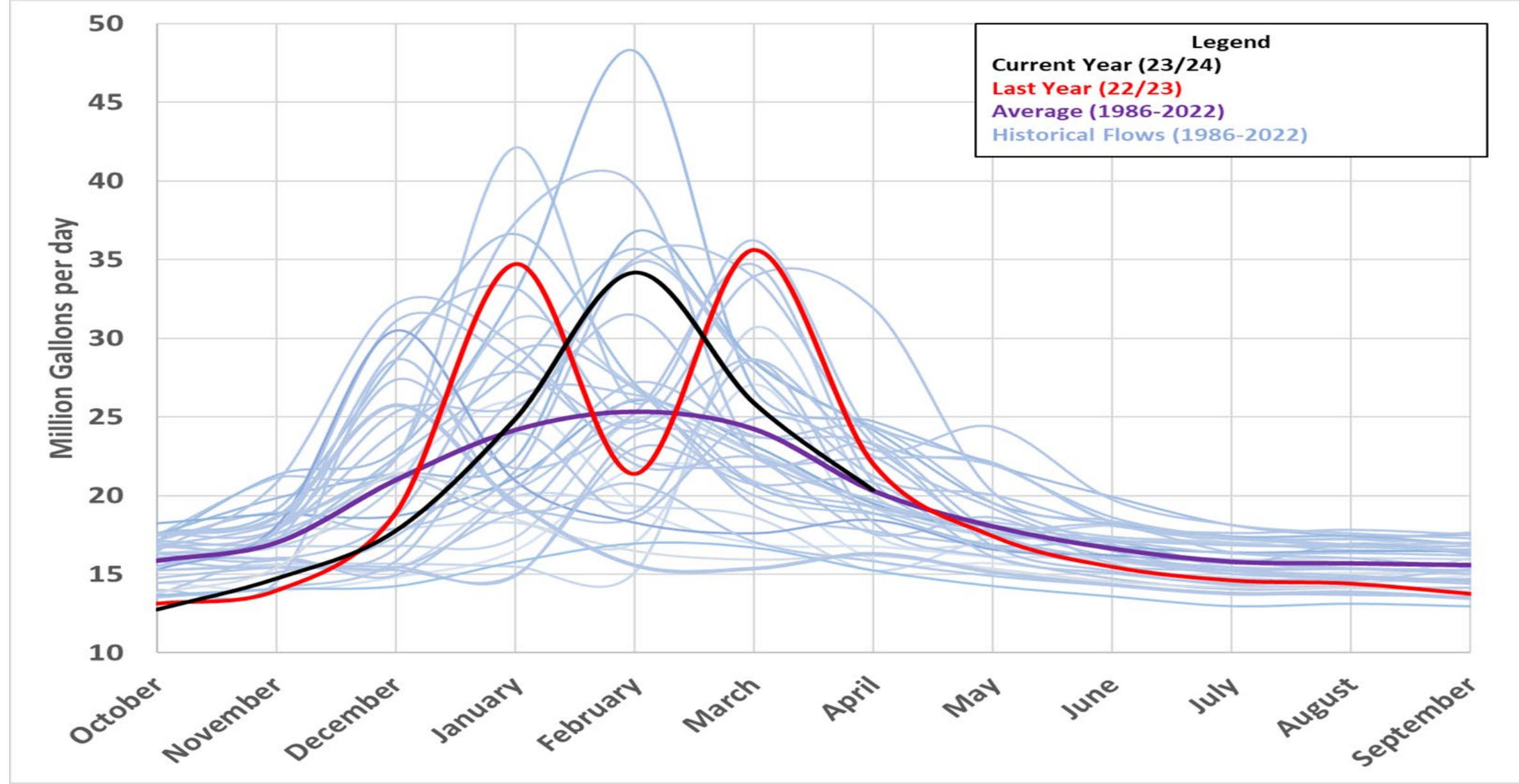
# Recycled Water Update

# Current Recycled Water Storage





# LTP Production





# Agriculture Allotments

- 1.48 billion gallons allocated for 2024
- 1.58 billion gallons was allocated for 2023  
1.02 billion gallons (64%) was used for 2023
- Users will continue to receive monthly usage reports
- Allotments guaranteed through September 30<sup>th</sup>, 2024
- User meeting was held on May 9<sup>th</sup>

# Questions?

