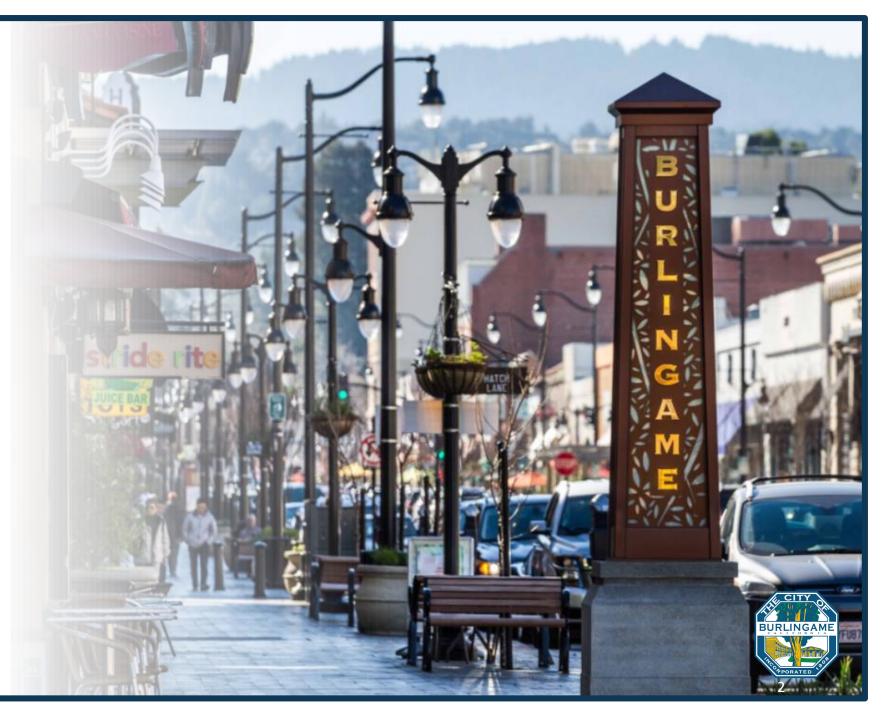
Recycled Water Feasibility Study & Treated Wastewater Discharge Reduction Project

City Council Presentation • June 16, 2025



Project Overview

- Background
- Objectives



Project Team

- Mahesh Yedluri, Senior Engineer, City of Burlingame
- Patrick Hassett, Water Resources Engineering
- Andrew Salveson, Carollo Engineers



Agenda

- Factors Driving the Project
- Overview of Recycled Water
- Overview of Advanced Purified Water

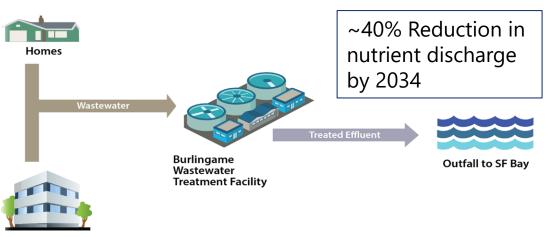


Push Factors

Drought



Wastewater Discharge Reduction Requirement

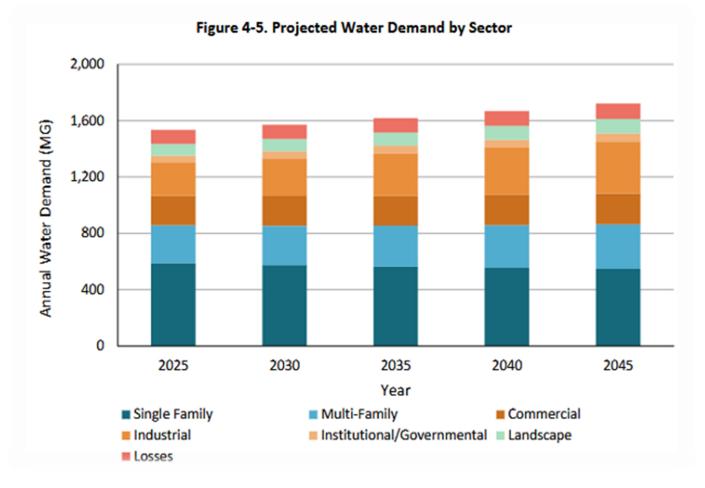


Businesses



Pull Factor

Growth in Water Demand





Feasibility Study Outcomes

- 1. Identify project alternatives
 - Perform stakeholder outreach
- 2. Evaluate feasibility
- 3. Define preferred alternative



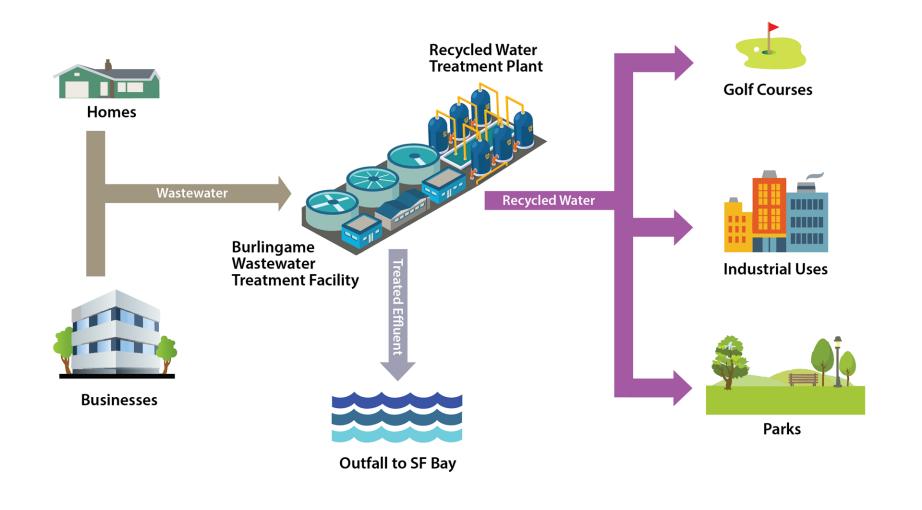


Project Workplan

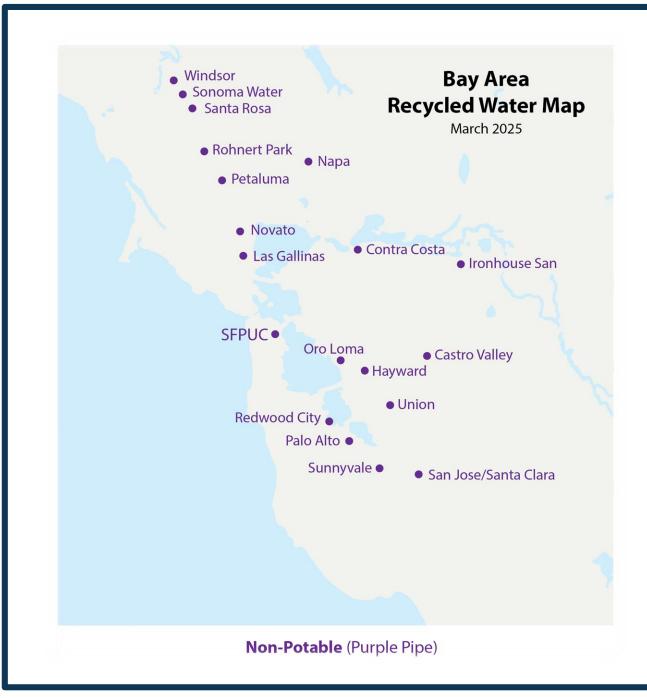
Phase A		Phase B				Phase C		
Alternatives Development and Screening		Alternatives Evaluation			Project Implementation			
City selects three				City selects				
	alternative evaluation			preferred alternative				
Aug 2025				Dec 2025				



Recycled Water Overview





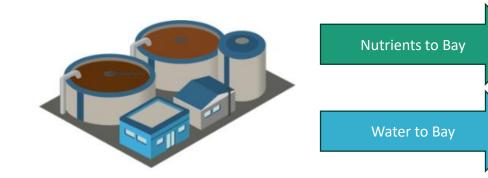


Recycled Water Projects SF Bay Area



Nutrients, Water Supply, and Types of Water Reuse

Today





 Non-Potable Reuse
 Reduced Nutrients to Bay

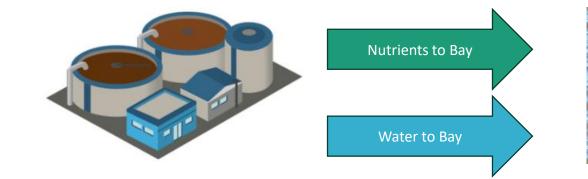
 Solves Some
 Reduced Water to Bay

 Water
 Reduced Water to Bay



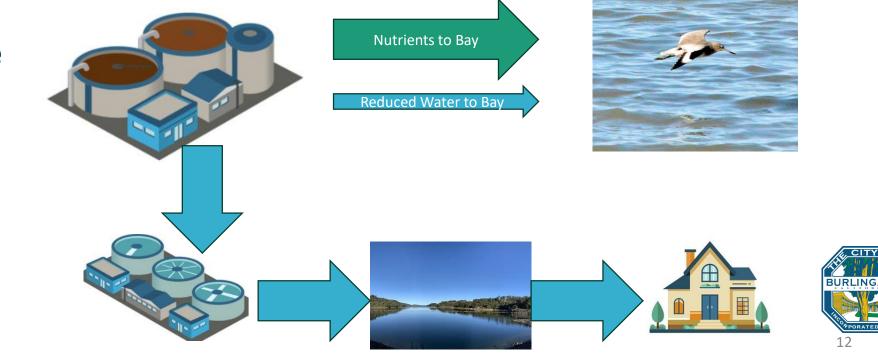
Nutrients, Water Supply, and Types of Water Reuse

Today



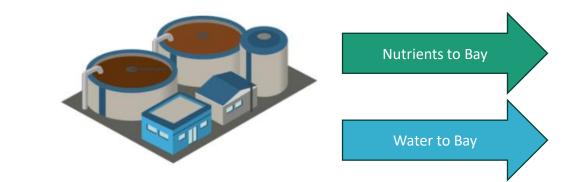


Potable Reuse Solves <u>Water</u>



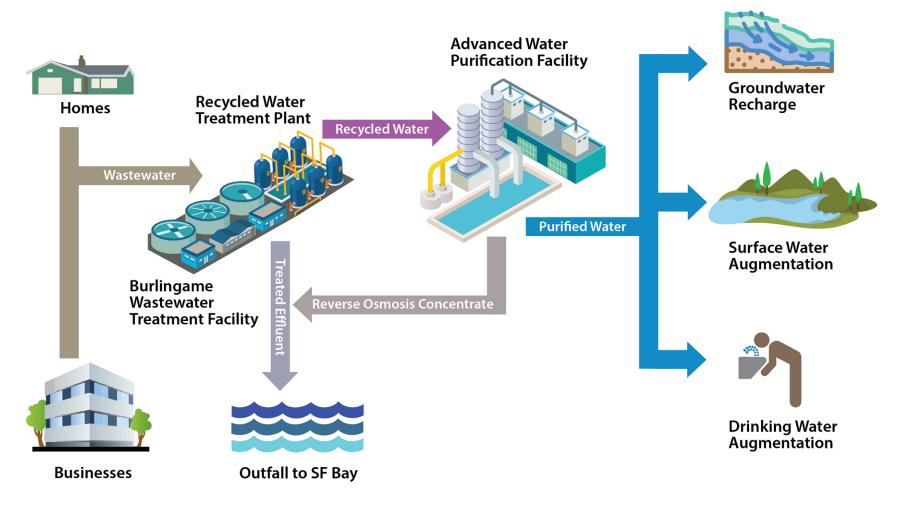
Nutrients, Water Supply, and Types of Water Reuse





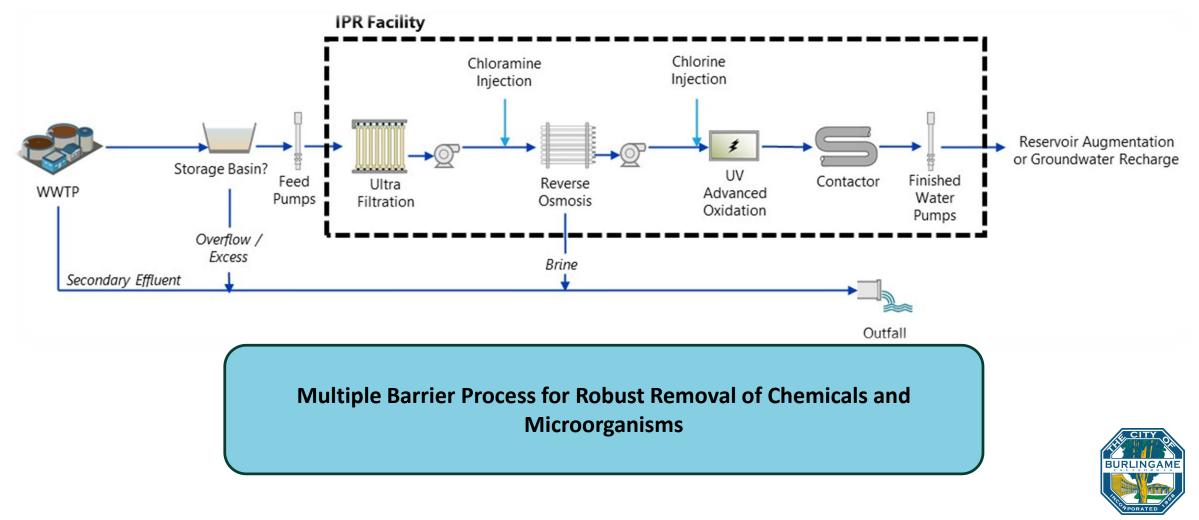


Potable Reuse Overview

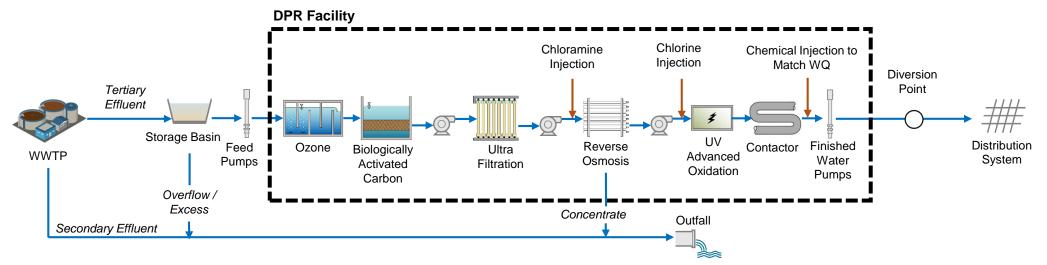




Example: Indirect Potable Reuse (IPR) Facility Treatment Train



Example: Direct Potable Reuse (DPR) Facility Treatment Train



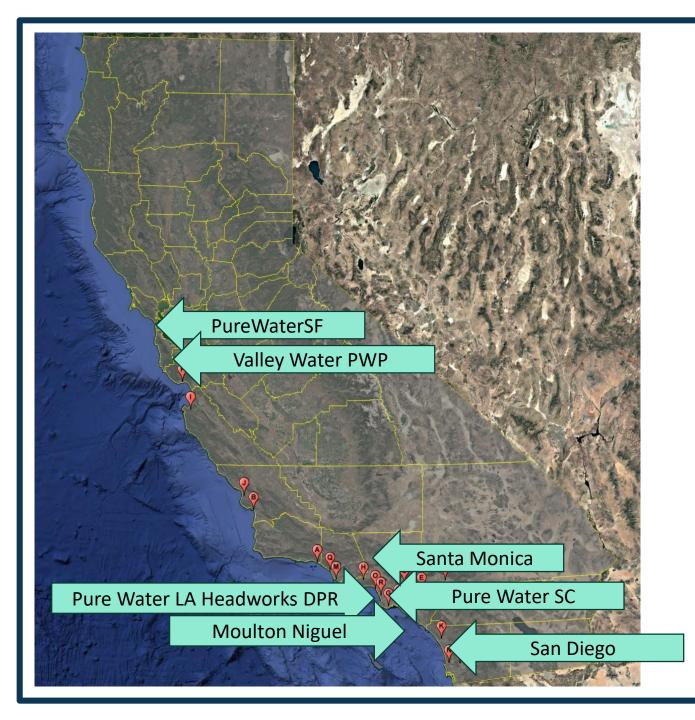
Additional Barriers in Place per State of California Requirements

BURLINGAME DURLINGAME DURLINGAME STORATED 16



A. Carpinteria APP – 100% Design B. Central Coast Blue – 90% Design C. East County AWP - Construction D. East Valley SNRC - Operating E. IEUA Spreading - Operating E. IEUA Injection - Construction F. LACSD Montebello Forebay - Operating G. Terminal Island WRP - Operating H. Las Virgenes Triunfo JPA - Construction I. Pure Water Monterey - Operating J. Morro Bay WRF - Operational K. Oceanside AWPF - Operational L. OCWD - Operating M. Oxnard AWPF - Operational N. San Diego Pure Water - Construction O. Santa Monica SWIP - Operating P. Pure Water Soquel - Operational Q. VenturaWaterPure - Design R. ECLWRF West Basin - Operating S. WRD ARC - Operating T. WRD LVL - Operating





Developing DPR Projects in CA



Next Steps

In-Depth Stakeholder Interviews

Continue Phase A Alternative Development

Project Alternatives Screening Workshop

Agency Outreach

- City of Millbrae
- BAWSCA
- SFPUC
- City of San Mateo
- SFO
- OneShoreline





City of Burlingame Feasibility Study for Recycled Water and Treated Wastewater Discharge Reduction Project

Thank You



www.burlingame.org/1252/Recycled-Water-and-Wastewater-Discharge-