



Dublin San Ramon
Services District
Water, wastewater, recycled water

Nutrient Watershed Permit Update

Pleasanton Liaison Meeting
March 31, 2025

Dan Gill, Operations Director

Summer of 2022

NATURE AND THE CITY

Worried about the fish-killing red tide returning to Lake Merritt? Here's a way to help

State wildlife officials want the public's observations of marine creatures during the harmful algae bloom.

by **Darwin BondGraham**
Aug. 3, 2023, 12:00 p.m.



Dead fish piled up along the eastern shore of Lake Merritt on Aug. 31, 2022. Credit: Darwin BondGraham



**State Water
Resources
Control Board**

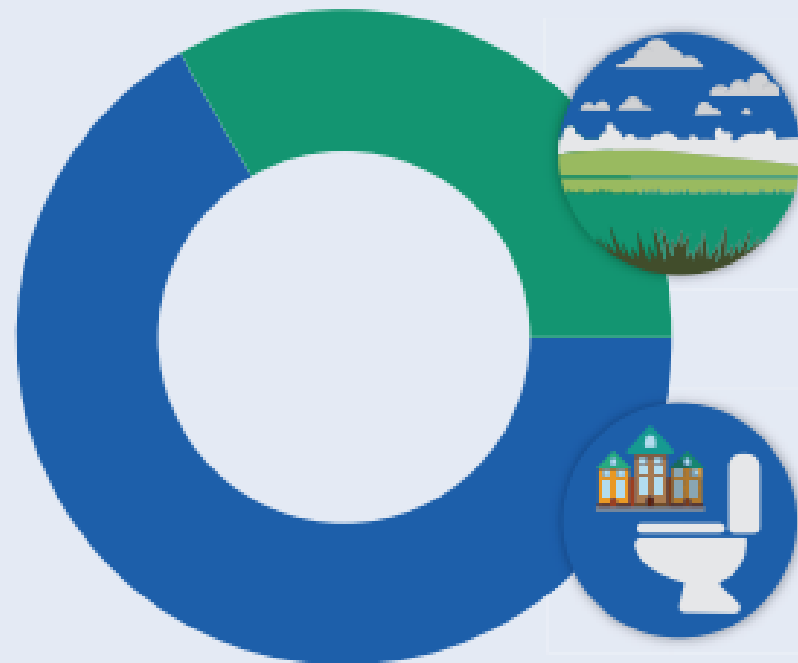
- **On July 10, 2024, a new Nutrient Watershed Permit was adopted by the San Francisco Regional Water Board**
- **The permit establishes maximum nutrient load limits for all major wastewater discharges for “dry season” months.**
- **Current limits would go into effect by June 2025 and would be set based on 2022 conditions.**
- **Requires a nutrient reduction of 50 percent over a 10-year period.**

San Francisco Chronicle

Poop and pee fueled the huge algae bloom in San Francisco Bay. Fixing the problem could cost \$14 billion



Where Do Nutrients Come From?



33%

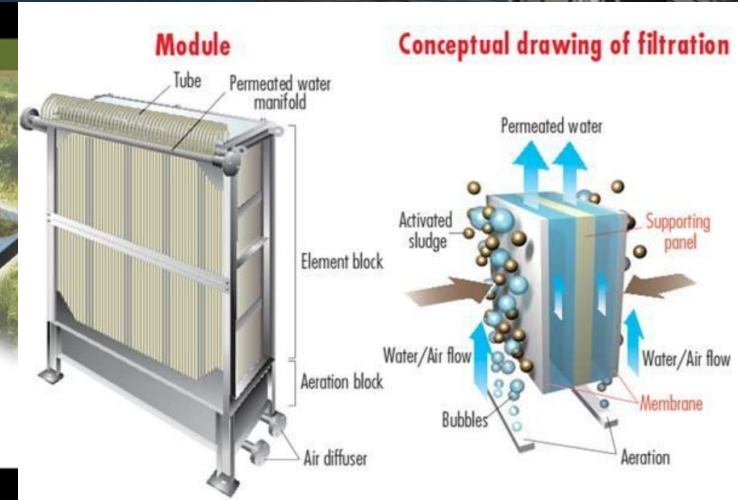
come from industrial
discharge and runoff
via the Sacramento
River Delta

66%

come from community
water use via treated
wastewater

Types of Nutrient Reduction

- Traditional Nutrient Reduction
- Membrane Activated Bio-Reactor
- Multi-Beneficial Solutions
 - Horizontal Levees
 - Water Recycling





RECYCLED WATER

DERWA

Dublin San Ramon Services District
East Bay Municipal Utility District
Recycled Water Authority



RECYCLED WATER PARTNERSHIP

1995

DERWA JPA formed between Dublin San Ramon Services District (DSRSD) and East Bay Municipal Utility District (EBMUD)

2003

DERWA Supply & Sales Agreements set terms for implementation of DERWA Program

2006

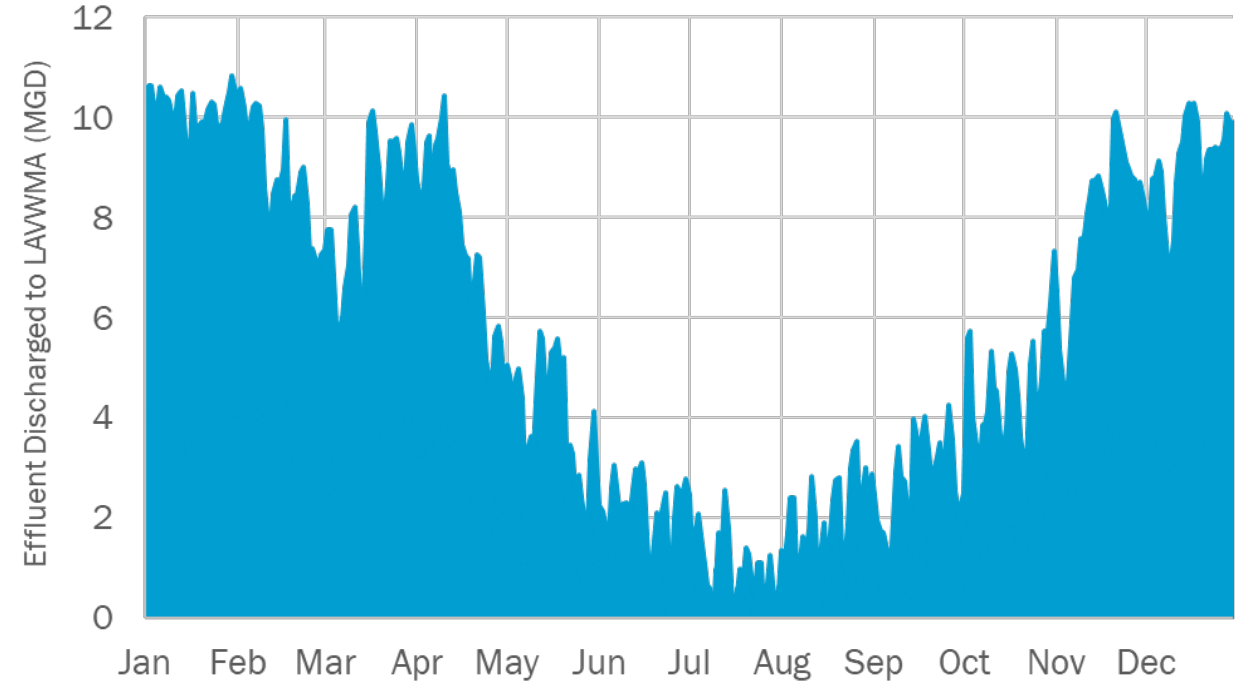
San Ramon Valley Recycled Water Program deliveries began

2014

Pleasanton becomes the third agency to receive water from DERWA

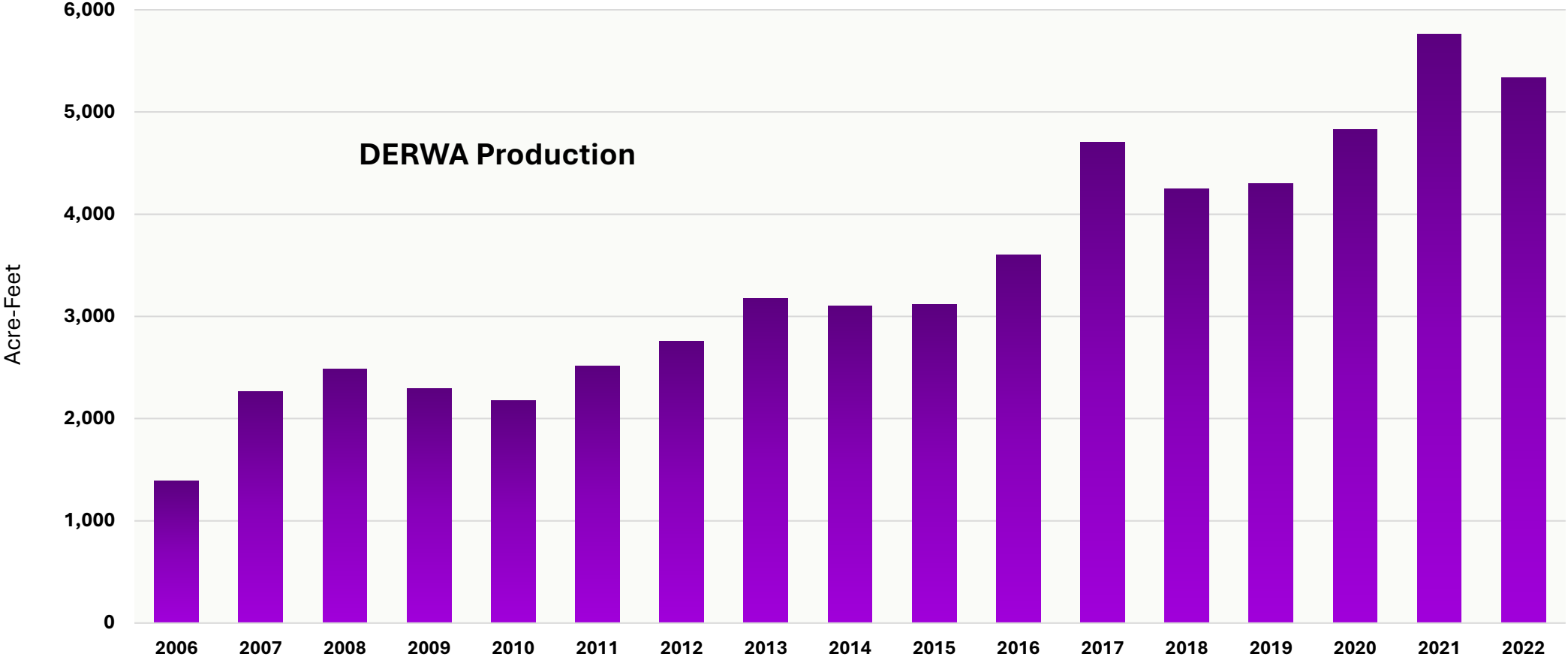
Reducing Nutrient Impacts to the Bay

Recycled water program supports a healthy San Francisco Bay



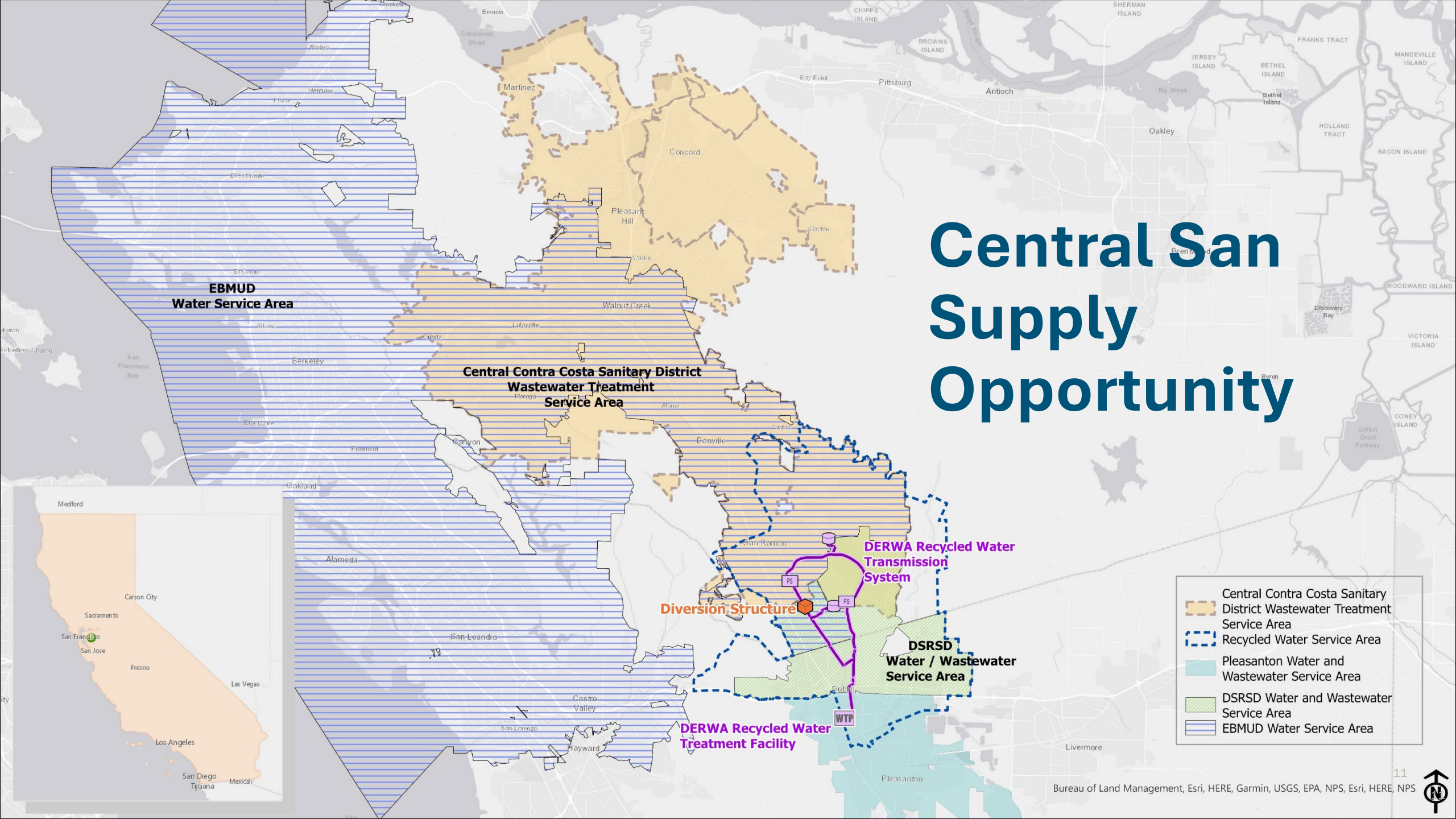
Up to 80% nitrogen reduction during dry weather

Growth in Recycled Water Program



20 Billion Gallons Recycled
3,300 tons of nutrients diverted from the Bay

Central San Supply Opportunity



Temporary DERWA-Central San Diversion Project

- Executed agreement in 2019
- Up to 5-year term, expires January 2026
- 0.7 mgd of wastewater diverted to DSRSD collection system during peak irrigation season



Photo: San Ramon Pumping Station

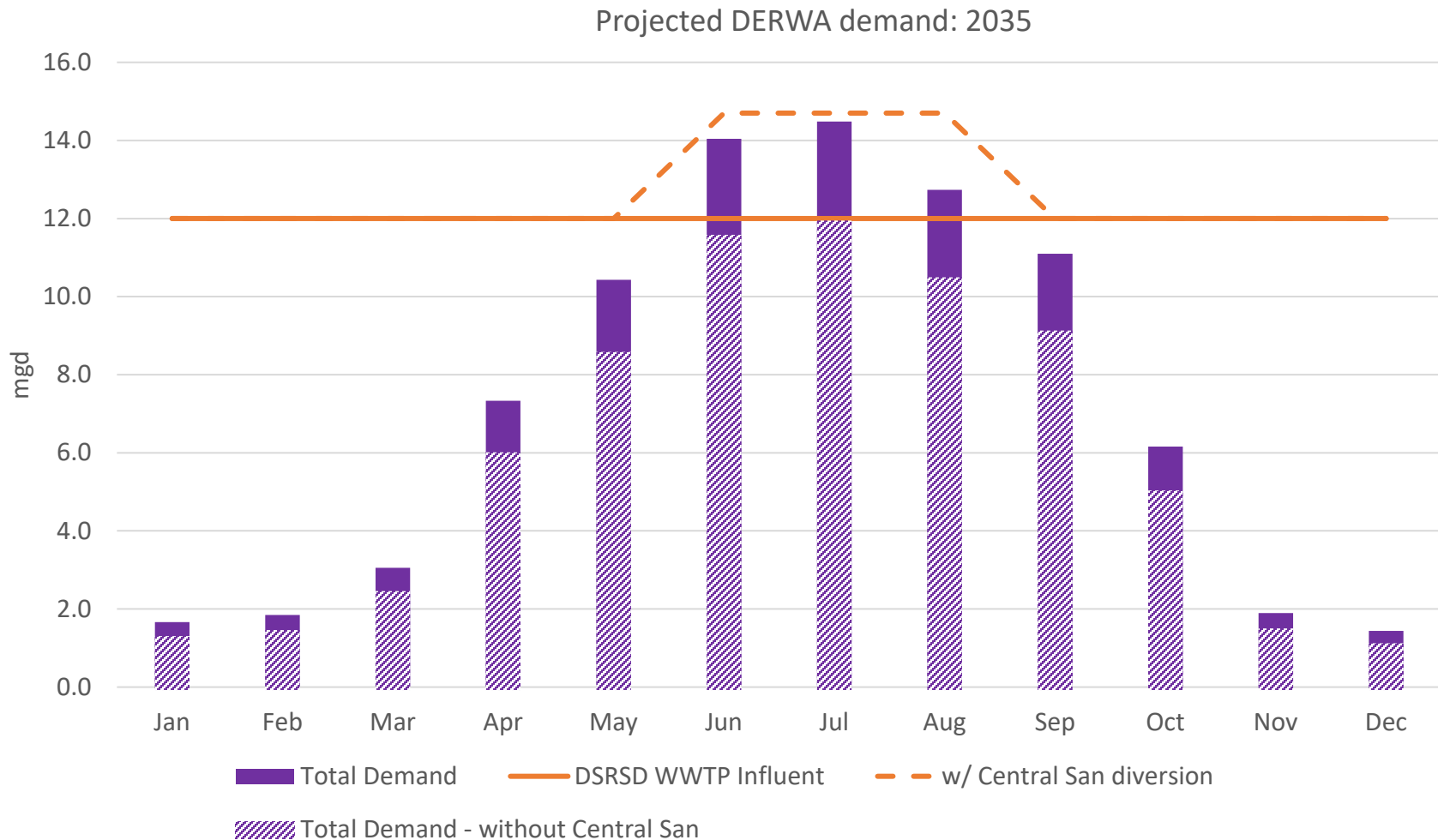
Long-term Agreement with Central San

Multiple Benefits



- Improve water resiliency for the region
- Expand recycled water system to reach new customers
- Reduce nutrient discharges to San Francisco Bay

Diverting wastewater from Central San (2.7 mgd, June-Aug) would enable DERWA to expand its customer base and meet demands for next ten years





Questions?