



**CITIZENS WATER ACADEMY**

# **Dublin San Ramon Services District Citizens Water Academy**

**Session Two  
May 22, 2024**

**Dan Gill  
Operations Director**



**Dublin San Ramon  
Services District**

*Water, wastewater, recycled water*



# CITIZENS WATER ACADEMY



**Logistics**



**Ground Rules**



Dan Gill



Tim Lewis



Todd Millison



Stephanie Olsen



Alex Perez

**Tonight's Hosts**



# CITIZENS WATER ACADEMY



Virtual Tour of Wastewater Treatment  
Plant & Wastewater Treatment 101;  
Virtual Tour of Recycled Water Facility  
& Recycled Water Treatment 101;  
Pollution Prevention



Finance 101;  
Serving on the DSRSD Board;  
How to Run for the DSRSD Board;  
Community Outreach;  
Graduation Dinner;  
Brave Blue World Film

# Tonight's agenda

**DSRSD  
Operations  
Overview**

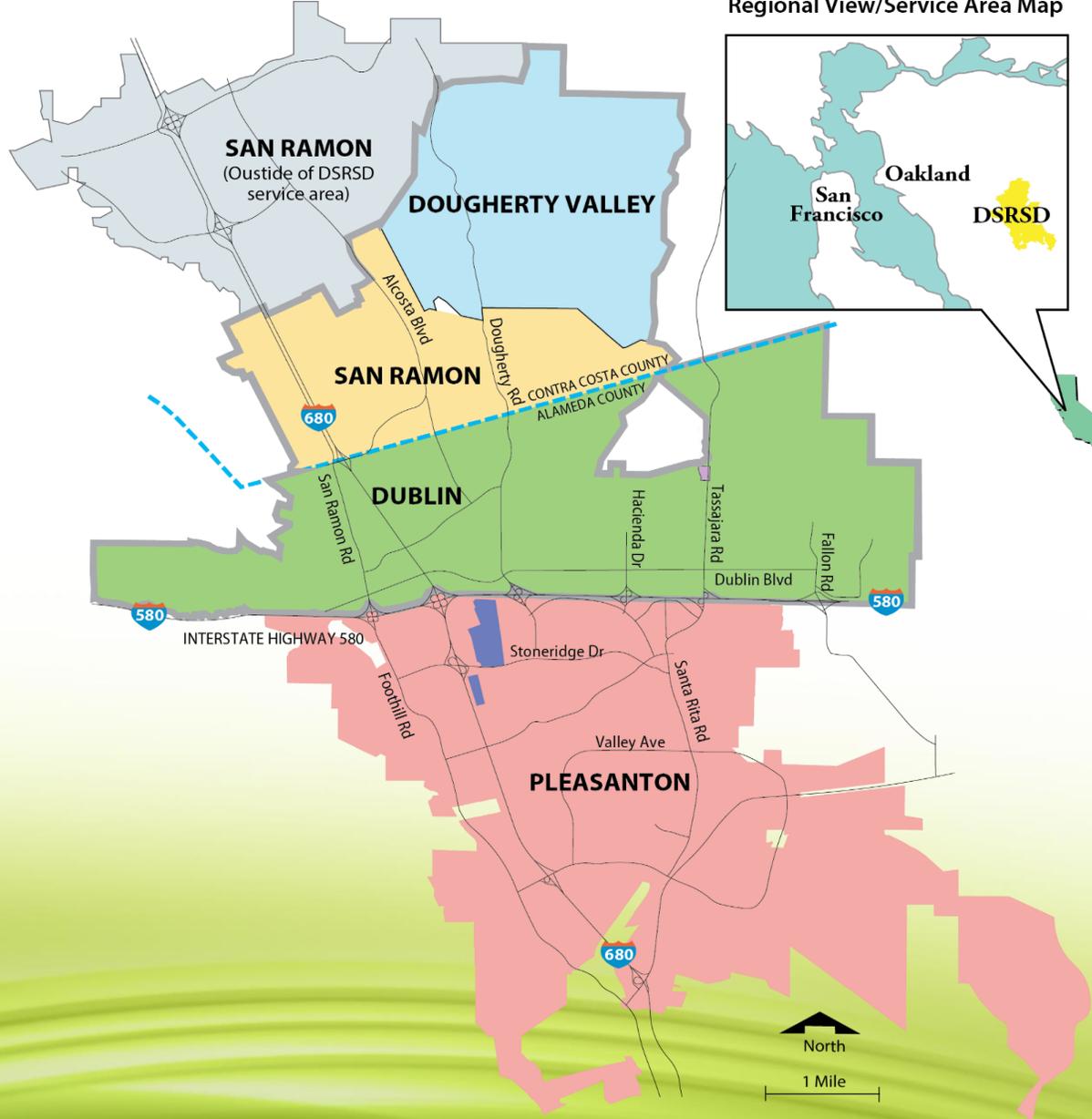
**Wastewater  
101**

**Recycled  
Water 101**

**Pollution  
Prevention**

# Operations: Wastewater Treatment and Recycled Water

Regional View/Service Area Map



**Map Legend**

- DSRSD Regional Wastewater Treatment Facility
- DSRSD Water and Recycled Water Service Area
- DSRSD Wastewater Only Service Area
- DSRSD Wastewater Treatment (under contract)
- DSRSD Water, Wastewater and Recycled Water Service Area
- Alameda Contra Costa County Dividing Line
- DSRSD Boundary
- Camp Parks (Parks RFTA) Boundary



# Livermore-Amador Valley Water Management Agency (LAVWMA)

- » Joint Powers Authority created in 1974 by the cities of Livermore, Pleasanton and the Dublin San Ramon Services District
- » Purpose of discharging treated wastewater to a deep-water outfall near Oakland Int. Airport
- » Operations began in 1979
- » DSRSD Operates and Maintains LAVWMA
  - 10 pumps 500/600 horsepower
  - 18 MG of holding capacity in Pleasanton
  - Export Pipeline is a 24-36" 15.6 miles west
  - Max of 41.2 MGD pumping during wet weather



# Dublin San Ramon Services District - East Bay Municipal Utility District Recycled Water Authority (DERWA)

- » Formed in 1995 to encourage recycled water development in the San Ramon Valley
- » The partnership provides an eco-friendly supply of irrigation water while conserving limited drinking water and minimizing discharges to San Francisco Bay



# Operations Department



**Plant  
Operations**



**Instrumentation,  
Controls, and  
Electrical**



**Mechanical  
Maintenance**



**Laboratory and  
Environmental  
Services**



**Environmental  
and Regulatory  
Compliance**

# Operations Team

- » Consists of 62 budgeted positions
- » O&M is the largest department for most utilities
- » 24/7/365 day a year operation, that means someone is here on Christmas morning
- » Highly regulated field and requires a specialized workforce
- » DSRSD provides all water services

# Quick History



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

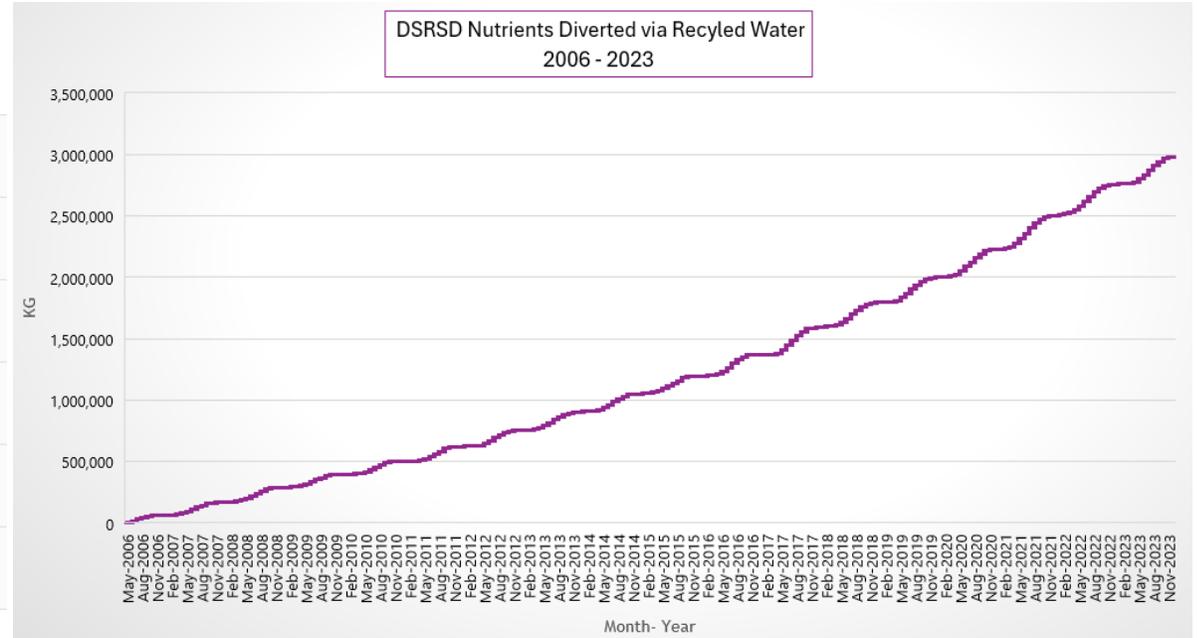
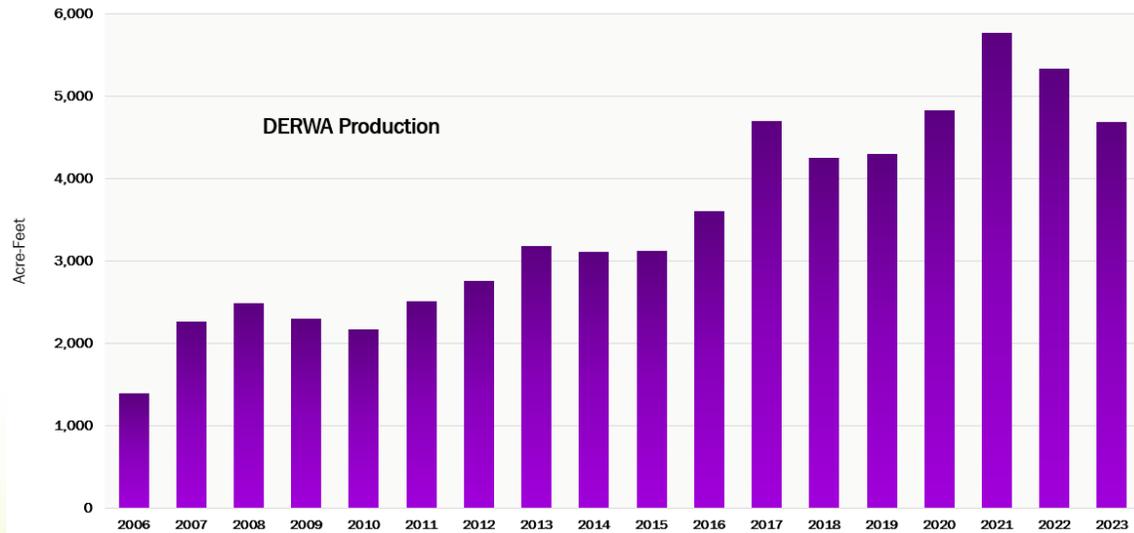
Aug. 3, 2023, 12:00 p.m.



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

# Recycled Water Success

## Growth in Recycled Water Program



- 20 billion gallons recycled
- Diverted 3 million kilograms of nitrogen from the San Francisco Bay
- 60-80% of total influent flows are recycled during the dry season
- Recycled water is 25 percent of DSRSD's overall water supply
- Peak demand in the summer has exceeded our wastewater supply

# Operational Highlights



- » Regional leader in water recycling
- » 96% of the power required for the WWTP is generated on-premise via the cogeneration system
- » Over 50,000 chemicals/biological substances are tested annually for all water systems
- » Nearly 40,000 corrective and preventative work orders completed annually

# Next: Wastewater 101

Dan Gill  
Operations Director  
[dgill@dsrsd.com](mailto:dgill@dsrsd.com)  
925-719-2997