

FILL'ER UP

DROUGHT RELIEF

through Recycled Water
Fill Stations



**Dublin San Ramon
Services District**
Water, wastewater, recycled water

Bay Area Clean Water Agencies
Executive Board Meeting
August 14, 2015

About DSRSD

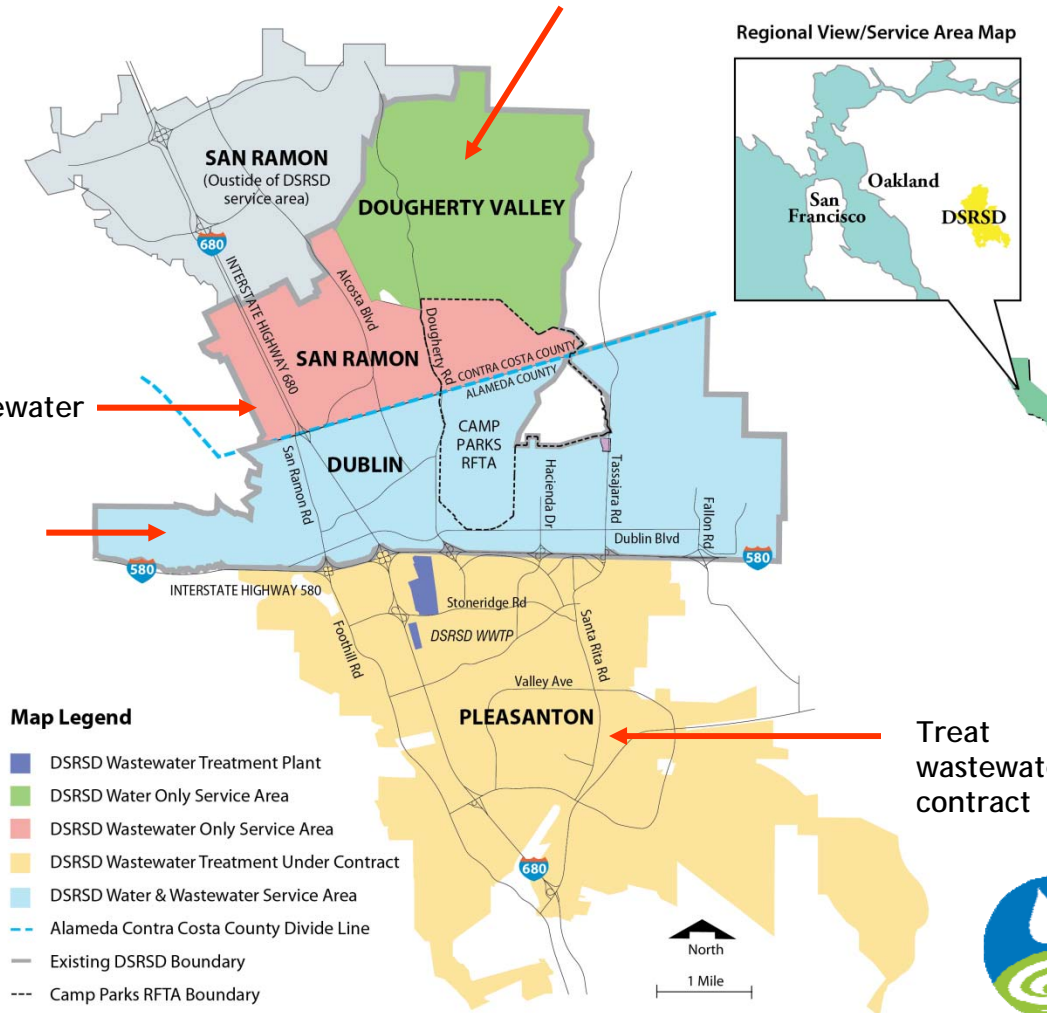
Distribute potable and recycled water

Regional View/Service Area Map



Collect and treat wastewater

Distribute potable and recycled water; collect and treat wastewater



Map Legend

- DSRSD Wastewater Treatment Plant
- DSRSD Water Only Service Area
- DSRSD Wastewater Only Service Area
- DSRSD Wastewater Treatment Under Contract
- DSRSD Water & Wastewater Service Area
- Alameda Contra Costa County Divide Line
- Existing DSRSD Boundary
- Camp Parks RFTA Boundary

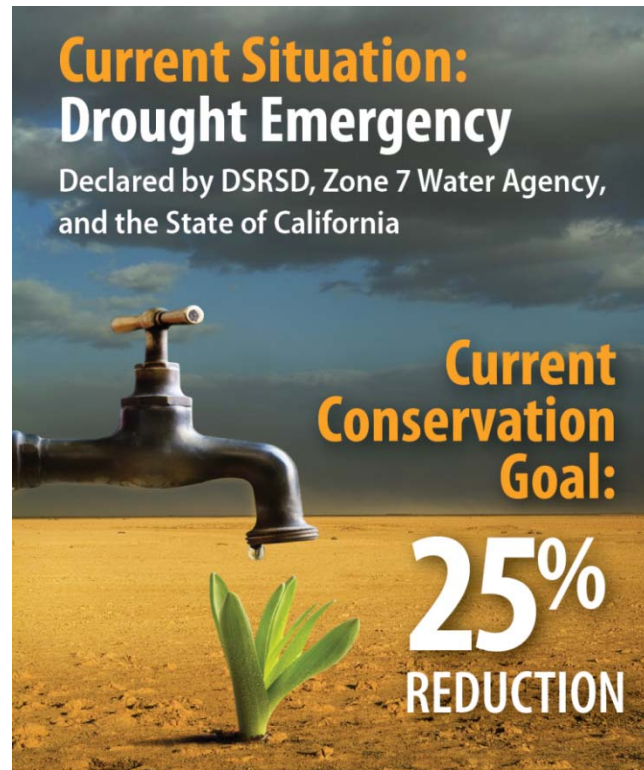
Treat wastewater by contract



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Potable Water Restrictions

- ▶ DSRSD declared an updated State of Community Drought Emergency May 5, 2014
- ▶ Overall conservation goal of 25%
 - 5% inside
 - 50-60% outside
- ▶ Use of potable water:
 - Prohibited for construction purposes
 - Limited for irrigation purposes
- ▶ 2015: DSRSD to reduce water use by 12%



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Commercial Fill Station

- ▶ Operational since 2007
- ▶ Required all potable water construction meters returned to District
- ▶ Required use of recycled water for construction and surface washing activities
- ▶ Commercial fill station has increased by 99%
- ▶ Typical loads 2,000-4,000 gallons
- ▶ Upgraded fill station to a 1,000 GPM fill rate
- ▶ \$10/load for recycled water
- ▶ PIN gives drivers access 24/7
- ▶ 2014: Distributed 16.9 MG (52 AF)
- ▶ 2015: Distributed 14.45 MG (44 AF) since January

 **CRESCO**
EQUIPMENT RENTALS

6146-6044



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CONTENTS
NON POTABLE
17-EP



- ▶ DSRSD's Drought Response Action Plan included conceptual program offering free recycled water to residents:
 - ▶ To conserve potable water; and
 - ▶ Mitigate residents concerns about maintaining landscaping over the summer
- ▶ Program hurdles:
 - ▶ Regulatory approval
 - ▶ Public acceptance and participation
 - ▶ Safeguarding health and safety at the fill station and customers' homes

Regulatory Approvals

▶ State Water Resources Control Board

- User Agreement with instructions
<http://www.dsrds.com/home/showdocument?id=929>
- Training program
- Recycled water stickers for customer's containers

▶ Regional Water Quality Control Board

- DDW submittal and approval
- Allowed under General Order 96-011
- Report requested after the first month



Small container stickers 3.5" X 5"



Large container stickers 4" X 8"



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Residential User Monitoring

- ▶ Must submit signed user agreement and receive training prior to first use
- ▶ Obtain a Wallet Card
 - Verifies resident has completed training and user agreement
- ▶ Each visit wallet cards must be shown to attendants
- ▶ Attendants will scan bar code on back of wallet card and enter amount to be collected in bar code scanner



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Residential Recycled Water Fill Station

- ▶ Recycled water is free
- ▶ Minimum 1 gallon and Maximum 300 gallons per trip (2200+ lbs)
- ▶ Multiple trips per day allowed
- ▶ Fill Station has been open to all up until July 2015
- ▶ New signups limited to only DSRSD & Pleasanton customers
- ▶ Outside service area customers with wallets cards may continue to obtain recycled water



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Residential Recycled Water Fill Stations

- ▶ WWTP (Pleasanton) Fill Station hours: Open 7 days/week
 - Monday, - Friday
 - New sign-ups: 9 AM - 10 AM; Open to all customers 10 AM - 7 PM
 - Saturday & Sunday
 - New sign-ups: 3 PM - 4 PM; Open to all customers 8 AM - 3 PM
 - 600 - 900 trips per day
 - Remained open throughout the winter - 4 days/weekclosed on rain days

- ▶ Dublin Fill Station
 - Opened June 24, 2015
 - Monday, Wednesday, Friday
 - New customer sign-ups: 8 AM - 9 AM; Open to all customers 9 AM - 4 PM
 - 150 - 350 trips per day

- ▶ By the end of 2014:
 - DSRSD distributed over 2.30 MG of recycled water to residents via milk jugs, buckets, and totes
 - 495 residential participants

- ▶ Now over 3,016 residential participants
 - Average 92,000 gallons collected per day
 - Since January 2015, over 14.135 MG



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Unexpected Benefits of the Residential Fill Station

- ▶ Users have become comfortable with recycled water. They love it, they want it, they are no longer afraid of it.
- ▶ Media loved the program (local, state, national, and even international reporters)
- ▶ Users and the media are now better educated about recycled water and its role in creating sustainable communities



“Recycled Water Keeps this Garden Green” signs given to residential users to post in their yard.

What Customers Say



"Everyone who comes here is pretty happy about it. It's a fantastic program that's for the future. They keep adding stations as it gets more popular - making it as convenient as possible. I love the program. I hope more people do it."



"We started with 5 gallon water jugs, moved up to a 55 gallon drum and now we've got the 275 gallon tote. Our yard is really green. We're really glad this program has been offered."



"It's an awesome service and everyone is so nice. It does help. More agencies need to do this or it's just water that gets dumped into the Bay."

"When I walk my dog by the creek, you're going to find a lot more bacteria in the creek than in this recycled water."



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- WWTP has 35 fill stations
 - Mix of back-in & drive through for trailers
- Dublin has 8 back-in stations
 - Trailers not allowed (limited parking lot space)



DSRSD WWTP Residential Fill Station in Pleasanton



Dublin Residential Fill Station



Other Agencies

- ▶ City of Livermore
- ▶ Central Contra Costa Sanitary District
- ▶ City of Brentwood
- ▶ Delta Diablo
- ▶ City of Roseville
- ▶ Others:
 - Novato
 - Healdsburg
 - Fresno
 - Scotts Valley
 - LA County Sanitation District



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Residential Fill Station Program Evolution

- ▶ Customers recognize effort in hauling water
- ▶ Entrepreneurs have proposed truck hauling to residential customers on-site storage tank through commercial trucking program
- ▶ Issues—Trucking Program
 - RWQCB holds District responsible for training, licensing and monitoring permitted haulers AND their customers
 - On-site storage and protection of potable water system
 - Maintaining RW Quality (bacterial regrowth & vector control)
 - Customers may be outside jurisdictional authority
 - Backflow prevention and cross-connection control issues

Acknowledgments

DSRSD Board of Directors:

- ▶ Georgan Vonheeder-Leopold
- ▶ Ed Duarte
- ▶ Pat Howard
- ▶ Richard Halket
- ▶ Dawn Benson

DSRSD Staff:

- ▶ Bert Michalczyk, General Manager
- ▶ Dan Gallagher, Operations Manager/Drought Coordinator
- ▶ Levi Fuller, Wastewater Treatment Plant Operations Supervisor
- ▶ Dan Lopez, Mechanical Maintenance Supervisor
- ▶ Shawn Quinlan, Mechanic II
- ▶ Steven Delight, Senior Civil Engineer
- ▶ Stefanie Olson, Clean Water Programs Specialist
- ▶ Florence Khaw, Environmental Compliance Inspector II

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- ▶ Simone Grashuis, Human Resources Tech
- ▶ Ann Cigliuti, Environmental Compliance Inspector II
- ▶ Kapil Mohan, Environmental Compliance Inspector II

State Water Resources Control Board, Department of Drinking Water for San Francisco District

- ▶ Robert Brownwood, District Engineer/Senior Sanitary Engineer
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San Francisco Bay Area Regional Water Quality Control Board

- ▶ Blair Allen, Water Resources Control Engineer

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