

# **Responding to the Drought Commercial Recycled Water Truck Program**



**October 20, 2016**

**An Bartlett**

# Agenda



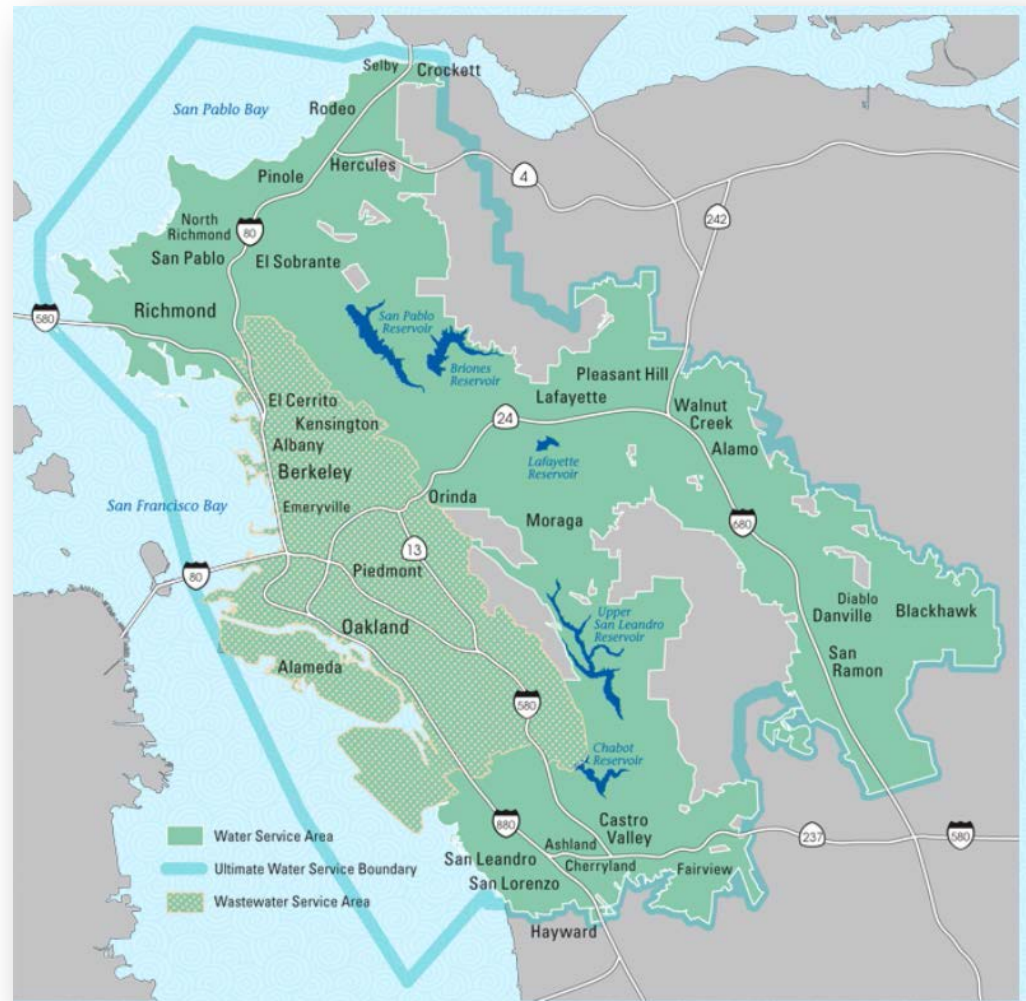
- EBMUD – Who We Are
- Commercial Recycled Water Truck Program
- Drought Declaration
- Partnership
- Creative Solutions
- Lessons Learned
- Future Planning & Further Expansion
- Questions & Answers

## Water System

- 1.4 million people
- 331-square-mile area

## Wastewater System

- 650,000 people
- 88-square-mile area





# Recycled Water @ EBMUD



North Richmond Water Reclamation Facility

Richmond Advanced Recycled Expansion (RARE) Water Project

East Bayshore Recycled Water Project

San Leandro Water Reclamation Facility

San Ramon Valley Recycled Water Project



# Commercial Recycled Water Truck Program

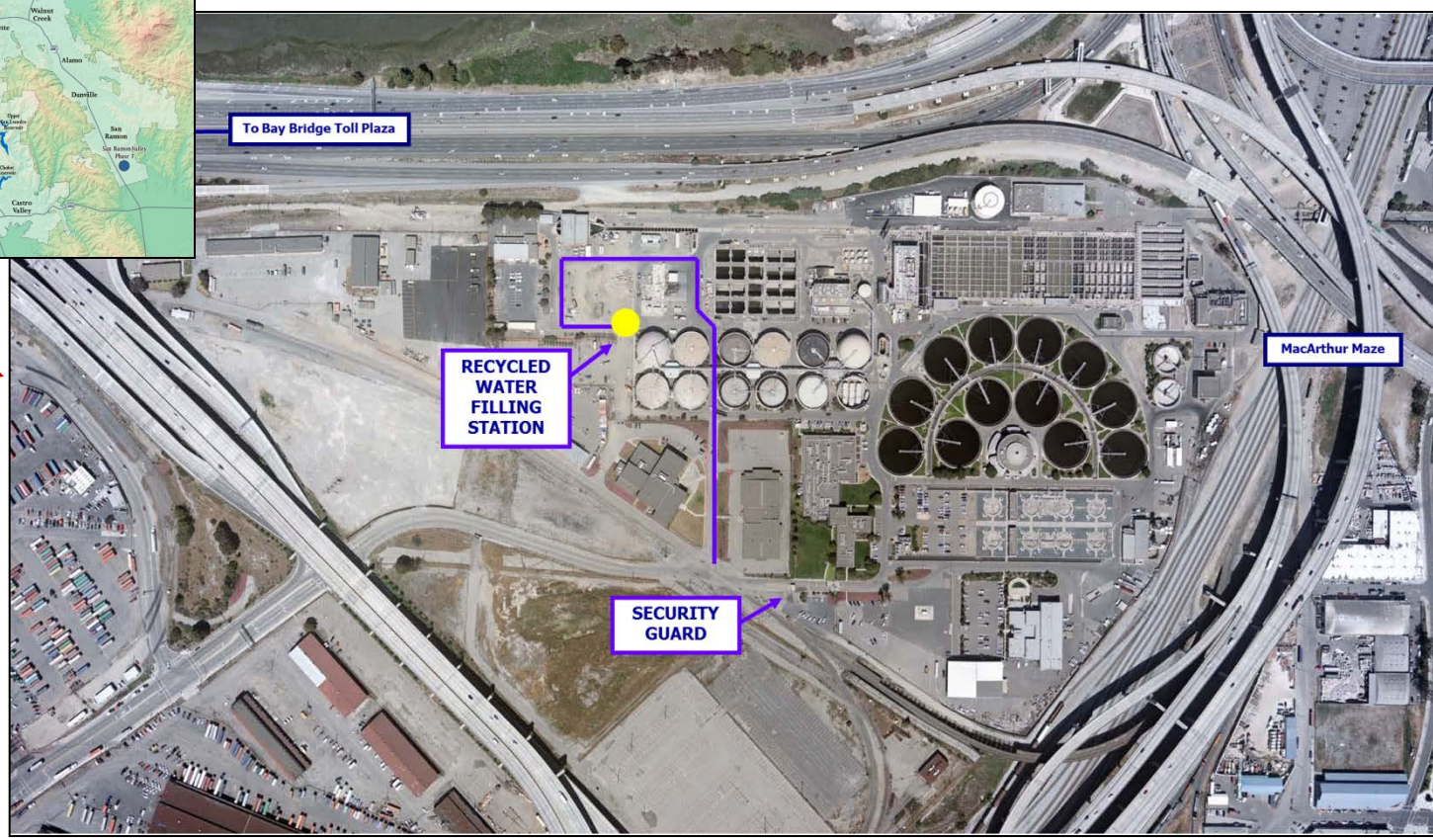
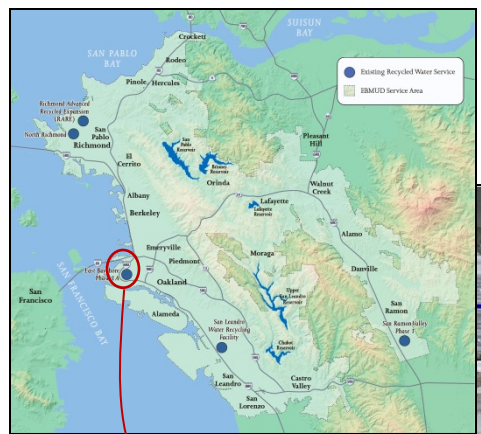


- Started August 2008 in response to the 2007 drought
- Approval from regulatory agencies
- User permit & training
- Free





# Truck Filling Station @ The Wastewater Treatment Plant, West Oakland



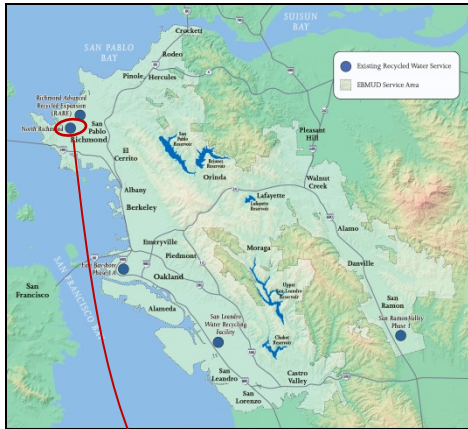


# Truck Filling Station, West Oakland





# Truck Filling Station @ North Richmond Water Reclamation Plant





# Truck Filling Station, North Richmond



# Truck Program – As Easy As 1, 2, 3 ...



1



2



3



- 2008: 2 MG – 28 permits
- 2009: 1.75 MG - a total of 58 permits
- 2010: 0.27 MG – a total of 88 permits
- 2011: 0.16 MG - 90 permits
- 2012: 0.09 MG
- 2013: 0.08 MG

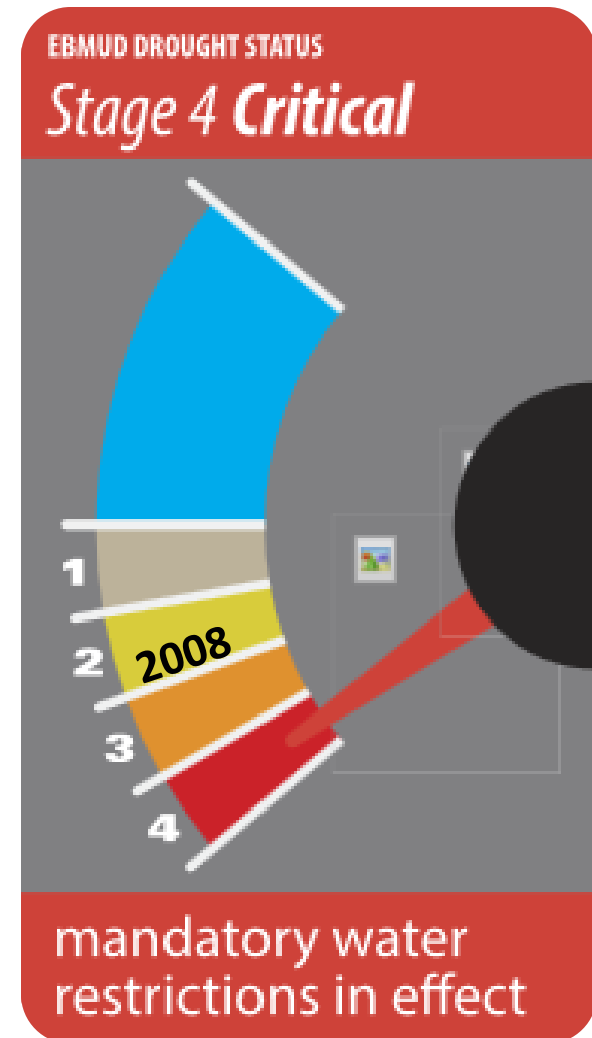


- 3<sup>rd</sup> dry year
- Revamping the Commercial Recycled Water Truck Program
- Mailing to all current permit holders
- Mailing to 287 customers with potable hydrant accounts
- Construction dust control and compaction
- 150,000 gallons

# Drought Declaration



- **Stage 4 critical drought** declared April 14, 2015
- Community-wide goal to reduce water use 20% compared to 2013.
- Mandatory water restrictions in effect





- Increased outreach
  - Flyers
  - Contractor newsletter
  - Public works
- Streamline process
- Large construction sites
- More than 100 permits
- 4,800,000 gallons



# Partnership



## Recycled Water for Construction & Other Uses Truck Program/Recycled Water Hydrant Sources in the East Bay Area (Updated August 2015)

The list below includes summary information about various utilities in the East Bay, including EBMUD, that produce and supply recycled water. Please contact agencies directly for more details about their recycled water truck programs.

**All customers who plan to use recycled water must first obtain permits from the appropriate recycled water supplier.**

The recycled water suppliers on this list offer tertiary-treated recycled water. For information about allowed uses of tertiary-treated recycled water, please refer to *Recycled Water Uses Allowed in CA* at [www.ebmud.com/rwtn](http://www.ebmud.com/rwtn).

### Disinfected Tertiary Treated:

#### Central Contra Costa Sanitary District

**Program Description:** Central San, with treatment facilities near the Interstate 680 and Highway 4 interchange, has a recycled water hydrant program (purple hydrants). To learn more about Central San's truck and purple hydrant program:

**Contact:** Melody LaBella

**Phone Number:** (925) 229-7370

**Web Page:** <http://www.centalsan.org/index.cfm?navId=159>

#### Dublin San Ramon Services District

**Program Description:** There are currently seven purple hydrants in Dublin and four in San Ramon (including Dougherty Valley). Additionally, customers can pick up recycled water at DSRSD's Regional Wastewater Treatment Facility in Pleasanton near the Interstates 580 and 680 interchange. To learn more about DSRSD's truck and purple hydrant program:

**Contact:** Ann Ggliuti

**Phone Number:** (925) 875-2334

**Web Page:** <http://www.dsrpd.com/do-business-with-us/recycled-water-use/recycled-water-hydrants-and-fill-station>

#### East Bay Municipal Utility District

**Program Description:** The Recycled Water Truck Program (RWTP) includes two truck filling stations located as follows:

- Wastewater Treatment Plant in West Oakland.
- Driveway entrance to North Richmond Water Reclamation Plant, two blocks from the Richmond Parkway.

**Contact:** Susie Wallenstein

**Phone Number:** (510) 287-1658

**Web Page:** <http://www.ebmud.com/rwtp>

#### City of Livermore

**Program Description:** Numerous purple hydrants on recycled water distribution system. To learn more about Livermore's purple hydrant program:

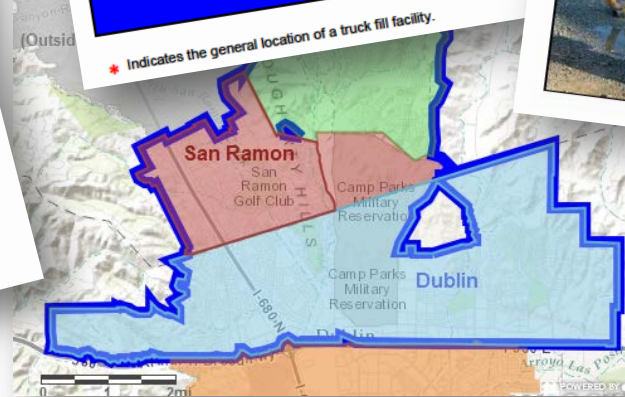
**Contact:** Dean Atkins

**Phone Number:** (925) 960-8125

## Bay Area Commercial Recycled Water Truck Fill Facilities Location Map

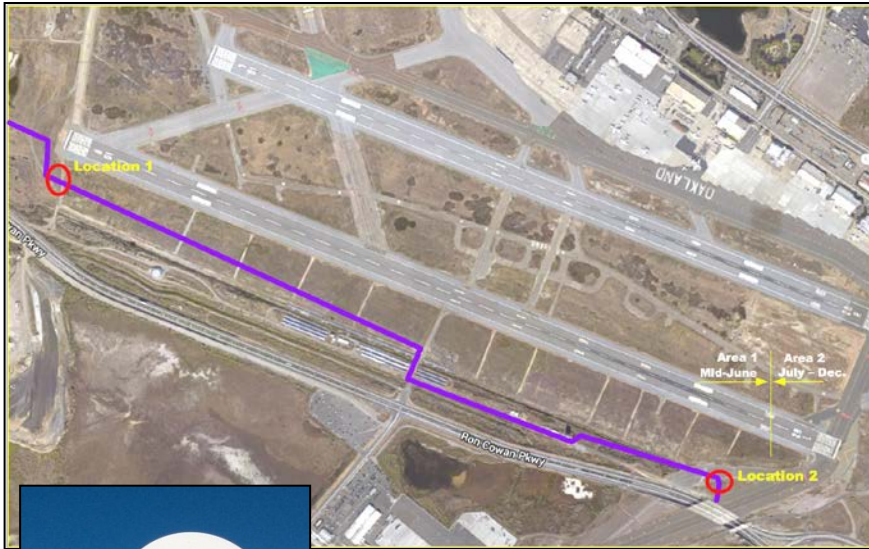


## Bay Area Recycled Water Commercial Truck Fill Facilities Location Guide January 2015

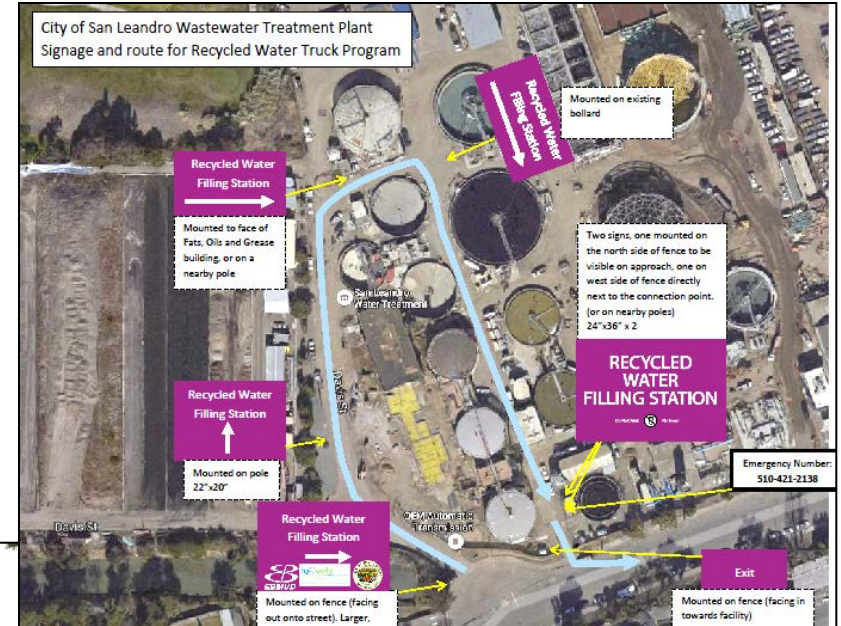




# San Leandro Truck Filling Station



Oakland Airport Runway Project



San Leandro Water Reclamation Facility Truck Filling Station



# 3<sup>rd</sup> Party Hauler





# Used Potable Water



Re-use potable water from new pipe installation activities such as hydrostatic pipe testing



# Next Steps



- Lessons learned:
  - Locations
  - Flexibility
  - Creativity
- Maintain momentum
- Target large users



# Commercial Recycled Water Truck Program

**Questions?**

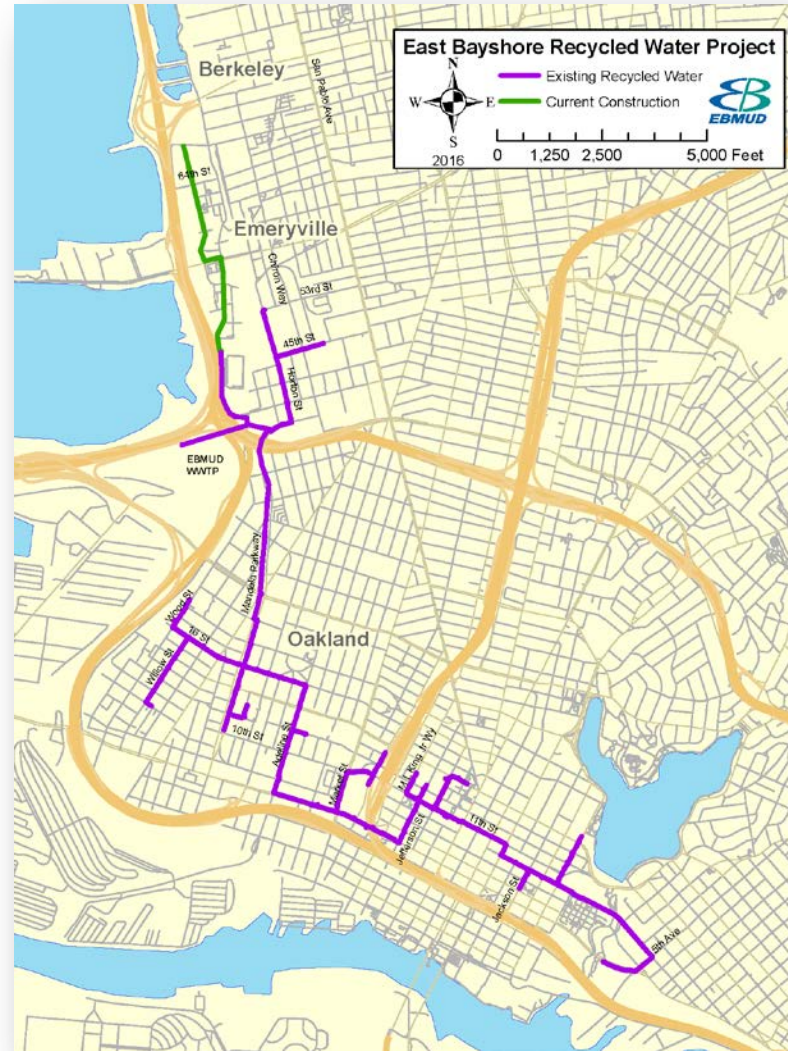
**[TruckWater@ebmud.com](mailto:TruckWater@ebmud.com) or (510) 287-1658**



# East Bayshore Recycled Water Project



## East Bayshore Recycled Water Project



# San Ramon Valley Recycled Water Program

