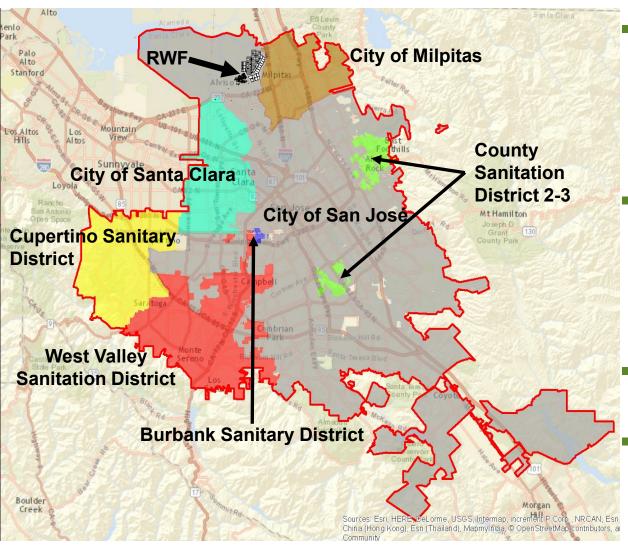


Discharge Regulations and Future Impacts on the RWF

Treatment Plant Advisory Committee
June 10, 2021



Regional Wastewater Facility



- West Coast's Largest advanced wastewater facility
 - 167 MGD capacity
 - 2,600-acre site
- Serves
 - 1.5 million people
 - 17,000 businesses
 - 8 cities & County areas
 - Continually operating 24/7 since 1956
- Subject to multiple permits



Regulations on the Watch List



Regulatory Permits: Wastewater

National Pollution Discharge Elimination System

- Regulator: San Francisco Bay Regional Water Quality Board
 - Through authority of Federal EPA and the State
- Individual Permit: February 2020
- Watershed Permits:
 - Nutrient-specific Permit: May 2019
 - Mercury & PCBs-specific Permit: January 2018



Potential Regulations: Nutrient Limits

- Nitrogen Limits 2024
- Bay science studies will inform need for further reductions
- Proactive monitoring and collaborative engagement by staff



Potential Regulations: CECs

Constituents of Emerging Concern









PROTECT THE BAY

Get rid of expired meds the right way.

Drop-off bin locations near you.





Potential Regulations: Chronic Toxicity Testing

Test species 1994 - March 2020

- Future regulations will impose numeric chronic toxicity limits
- Stringent application of regulation may result in periodic permit violations & fines





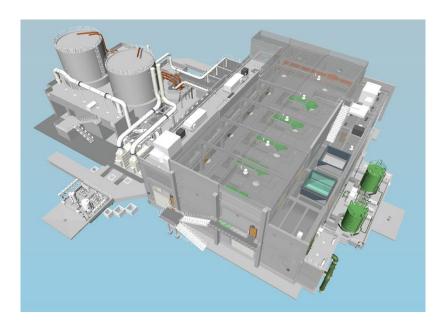
Test species April 2020 - present



Potential Regulations: Organics and Biosolids

SB 1383

- Landfill Restrictions
- Dewatering Facility





Regulatory Permits: Air

Title V Permit to Operate

- Regulators:
 - EPA
 - Bay Area Air Quality Monitoring District
- Criteria Pollutants, Greenhouse Gases, Toxic Air Contaminants
- Current Permits:
 - Title VIssued in 2017
 - Authority to Construct for Facility Changes



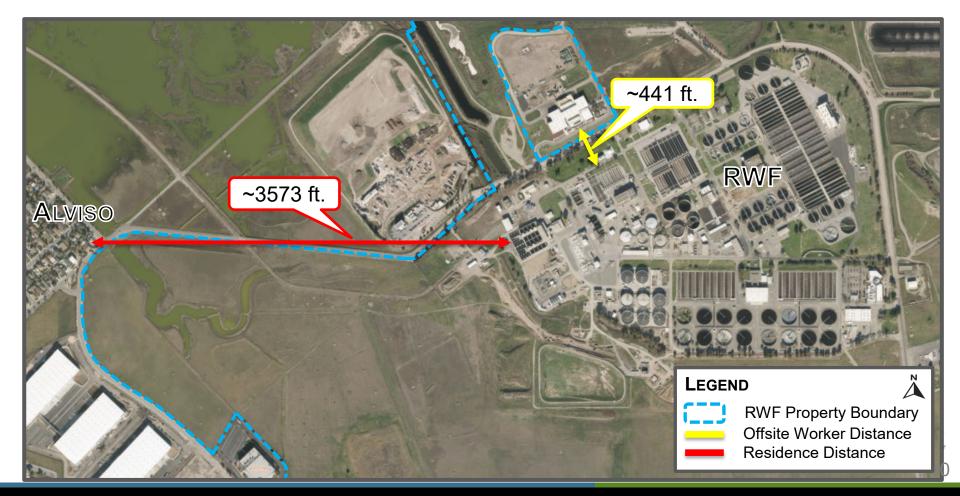




New Regulation: Toxic Air Contaminants

BAAQMD Regulation 11 Rule 18

Health Risk Assessment



Potential Regulations: Greenhouse Gases

GHGs

- Cap & Trade
- Fugitive Methane (BAAQMD Rule13-4)



Looking Ahead

- Tracking Potential Regulations and Legislation
 - Ensure potential regulations and legislation are considered in discussion with Valley Water on recycled & purified water expansion
- Established in-house research and science programs inform and shape regulations
- Leveraging Advocacy and Industry Groups
- Flexibility Built into Capital Projects

Environmental Benefits



Discussion

