



Discharge Regulations and Future Impacts on the RWF

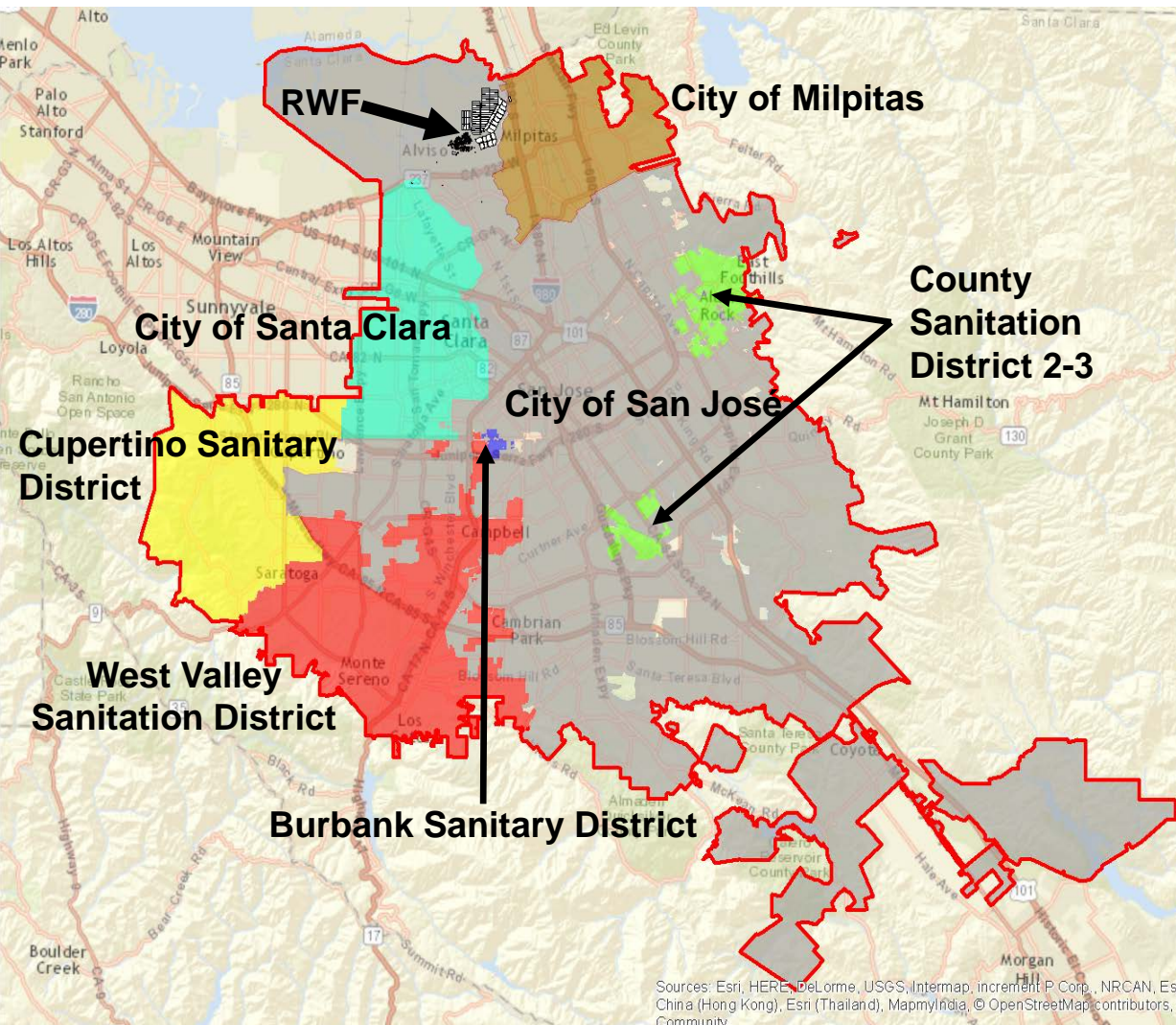
Transportation and Environment Committee

May 6, 2019



San José-
Santa Clara
Regional
Wastewater
Facility

Regional Wastewater Facility



- Largest advanced wastewater facility on the West Coast
 - 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

Regulatory Permits: Wastewater

National Pollution Discharge Elimination System

- Regulated by EPA and San Francisco Bay Regional Water Quality Board
- Current Permit issued in 2014, renewal in 2019
- Separate Nutrient-specific Permit to be re-issued May 2019



BACWA
(wastewater utilities)



Regional Water Board
(regulatory)



San Francisco Estuarine Institute
(science)



Non-Govt Organizations
(NGOs)

Regulatory Permits: Air

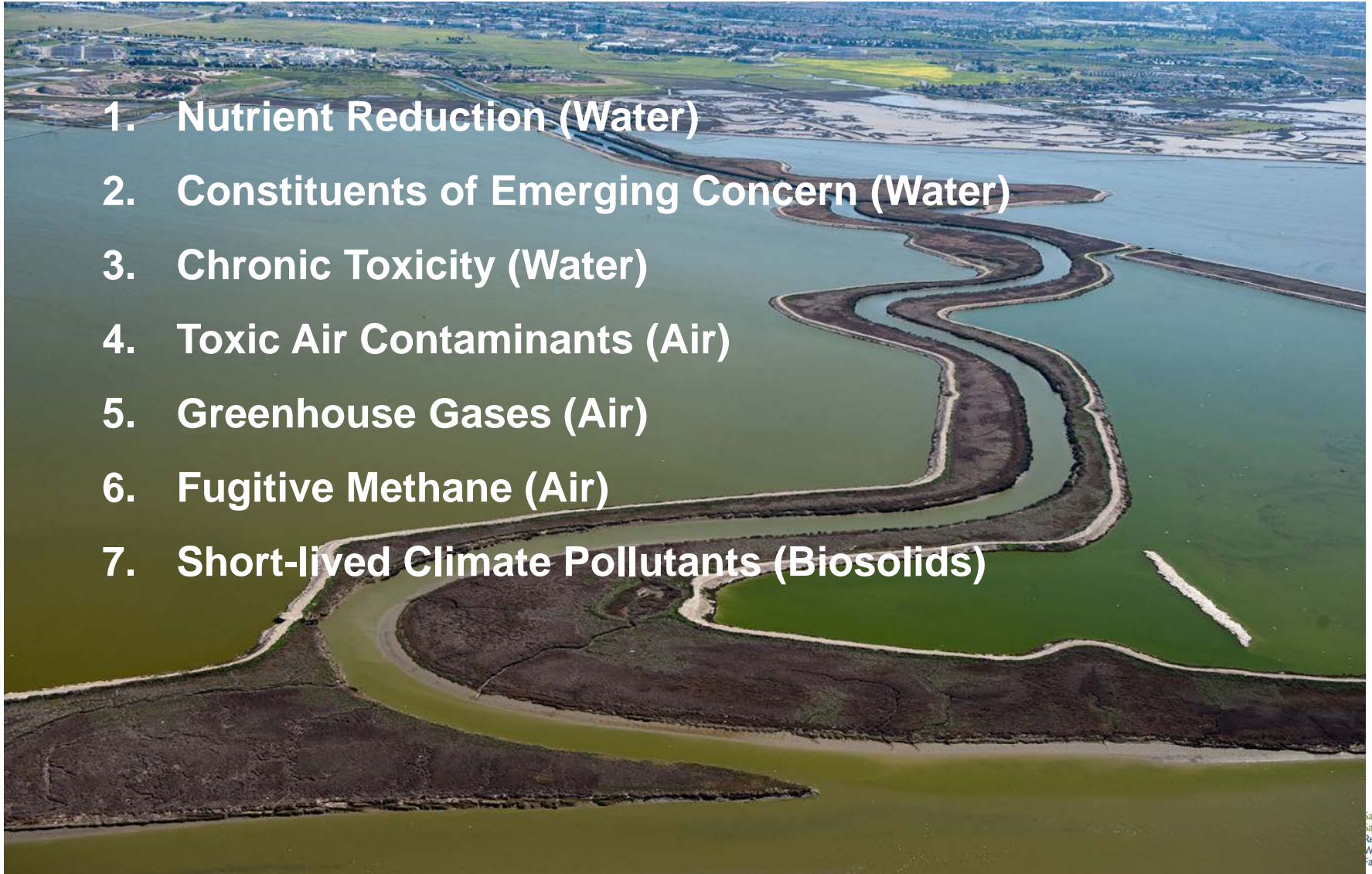
Title V and Permit to Operate

- Regulated by EPA & the Bay Area Air Quality Monitoring District
- Current Permit Issued in 2017; Updates in Progress for Facility Changes
- Criteria Pollutants, Greenhouse Gases, Toxic Air Contaminants



Regulations on the Watch List

1. Nutrient Reduction (Water)
2. Constituents of Emerging Concern (Water)
3. Chronic Toxicity (Water)
4. Toxic Air Contaminants (Air)
5. Greenhouse Gases (Air)
6. Fugitive Methane (Air)
7. Short-lived Climate Pollutants (Biosolids)



Potential Regulations: Nutrient Limits

- Achievable limits envisioned in 2024
- Bay science studies will inform need for further reductions
- Proactive monitoring and collaborative engagement by RWF wastewater compliance 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.

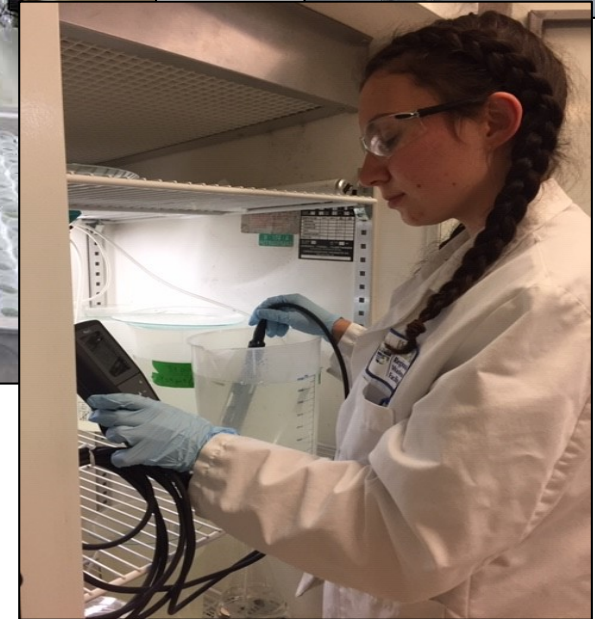
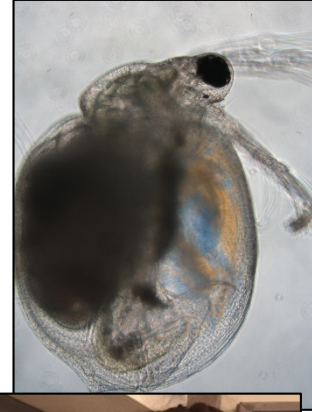


CITY OF SAN JOSE
OFFICE OF BLACK HILLS VALLEY
Environmental Services

San José-Santa Clara Regional Wastewater Facility

Potential Regulations: Chronic Toxicity Testing

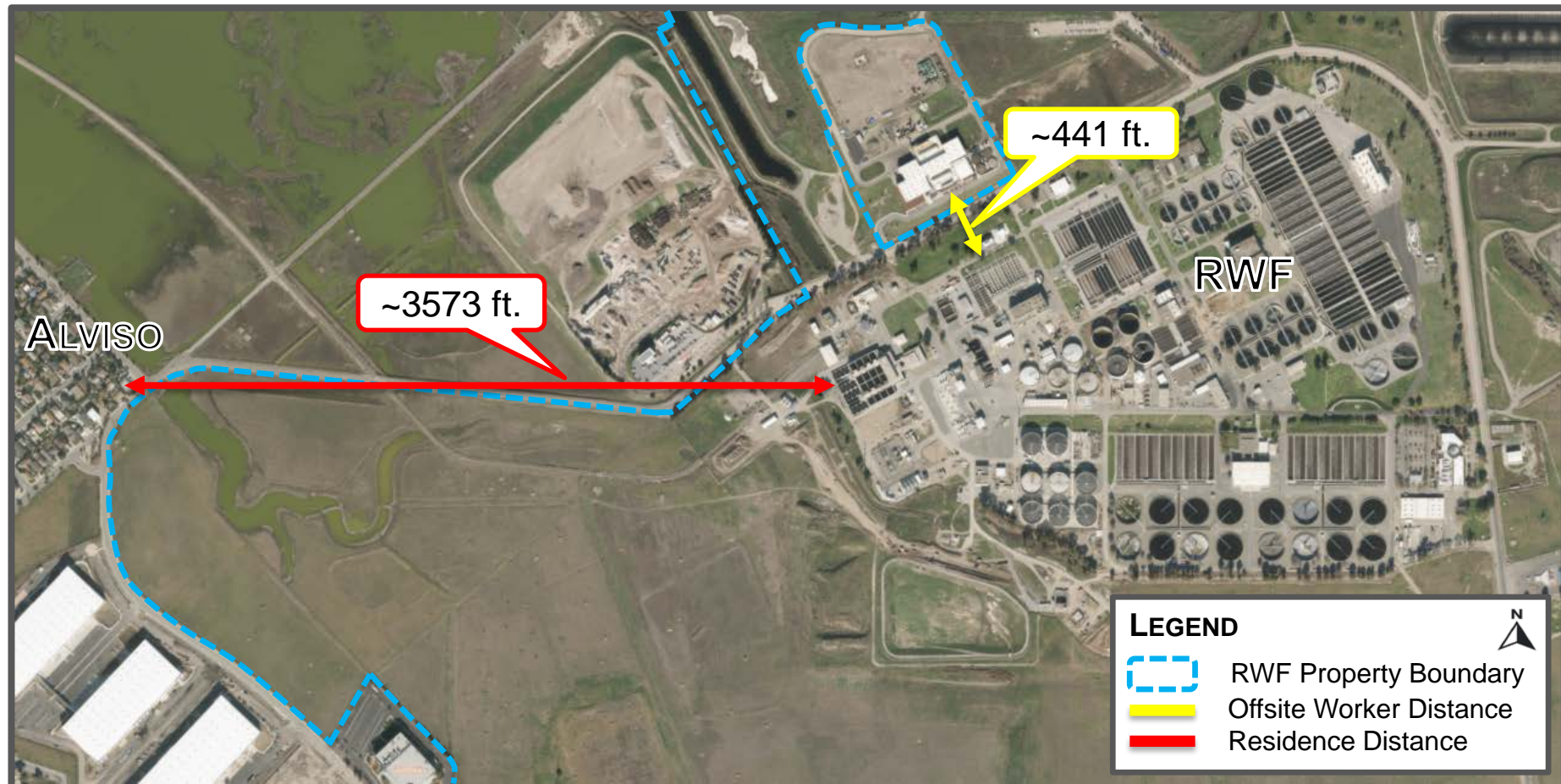
- Future regulations will impose numeric chronic toxicity limits
- Stringent Implementation may result in periodic permit violations and fines



New Regulation: Toxic Air Contaminants

BAAQMD Regulation 11 Rule 18

Health Risk Assessment



Potential Regulations: Greenhouse Gases

GHGs

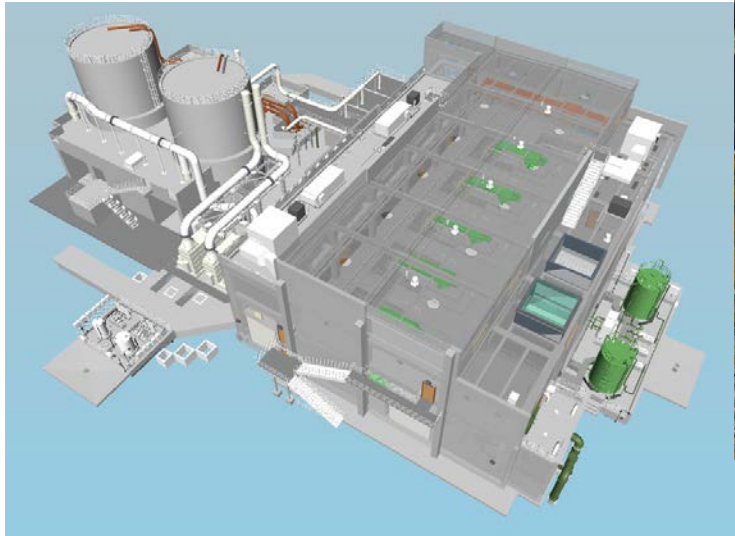
- Cap & Trade
- Fugitive Methane (BAAQMD Rules 13-1 & 13-4)



Potential Regulations: Organics and Biosolids

SB 1383

- Landfill Restrictions
- Dewatering Facility



Looking Ahead

- **Tracking Potential Regulations and Legislation**
- **Established in-house research and science programs inform and shape regulations**
- **Leveraging Advocacy and Industry Groups**
- **Flexibility Built into Capital Projects**

Environmental Benefits



Discussion

