

# Regional Wastewater Treatment Plant

## Annual Neighborhood Update



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

October 23, 2024

# Presenters



**Dan Gill**  
*Operations Director*



**Tim Lewis**  
*WWTP Superintendent*



**Jason Ching**  
*Senior Engineer*

# DSRSD Service Area

## Map Legend

- DSRSD Regional Wastewater Treatment Facility
- DSRSD Water Only Service Area
- DSRSD Wastewater Only Service Area
- DSRSD Wastewater Treatment Under Contract
- DSRSD Water & Wastewater Service Area
- Alameda Contra Costa County Dividing Line
- DSRSD Boundary
- Camp Parks (Parks RFTA) Boundary





**Then & Now**

# Regional Wastewater Treatment Plant



**DSRSD Wastewater Treatment Plant**

HIGHWAY 680

# Incoming Collections System Mains



*Dublin/San Ramon Line*



*Pleasanton Lines*

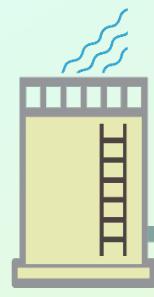
- *East Amador*
- *Highland Oaks*
- *Sewer line 6*
- *Sewer line 8*



Homes and Businesses



COLLECTION SYSTEM



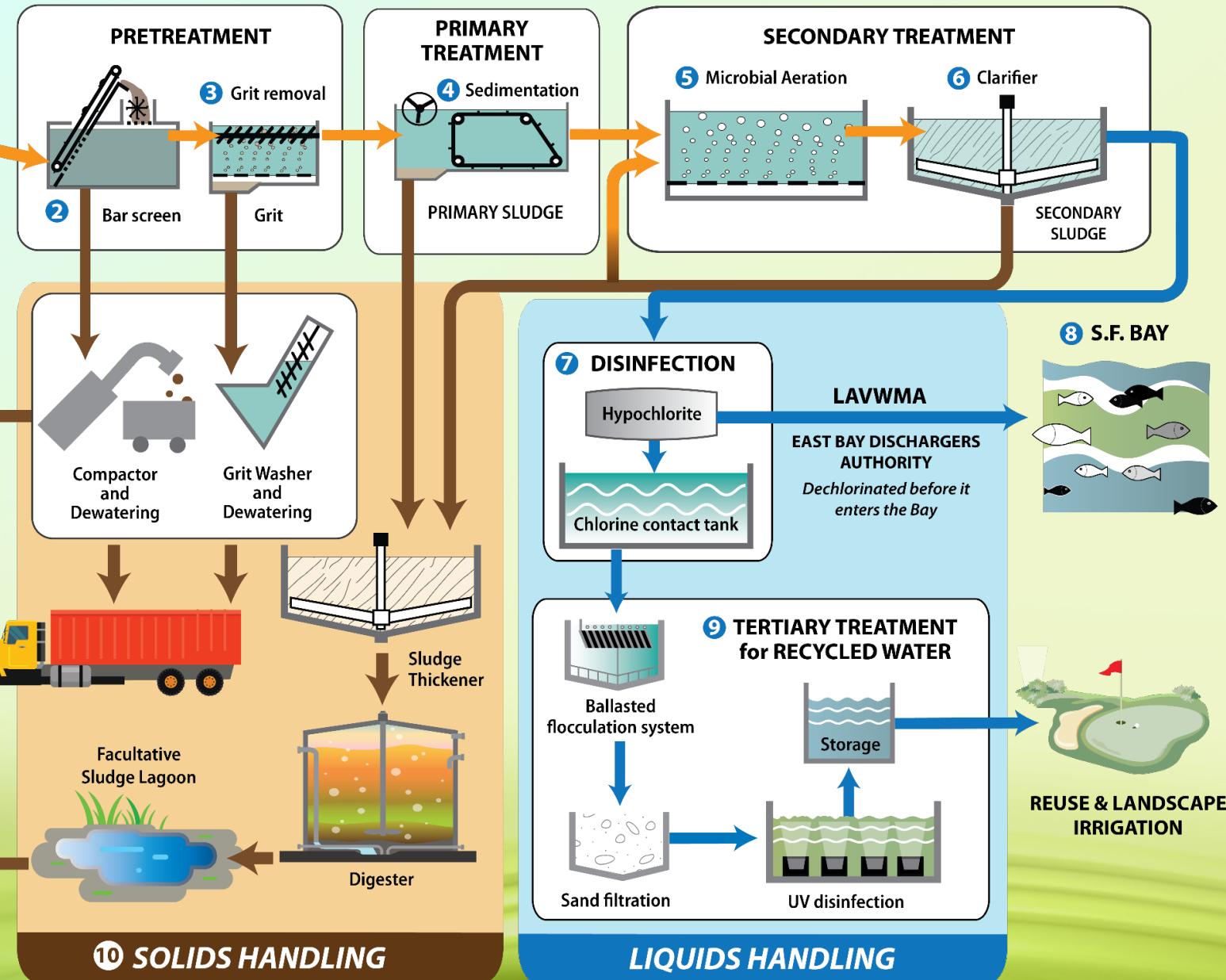
Odor Reduction



Dedicated Land Disposal Site



## REGIONAL WASTEWATER TREATMENT FACILITY



» **WWTP designed treatment capacity is 17 million gallons/day**

- Current average daily wastewater flow: 11 million gallons/day

» **On an annual basis, nearly half of DSRSD's wastewater is recycled**

- During the dry-season, that increases to 60% to 80%

# Biosolids Treatment



Facultative Lagoons

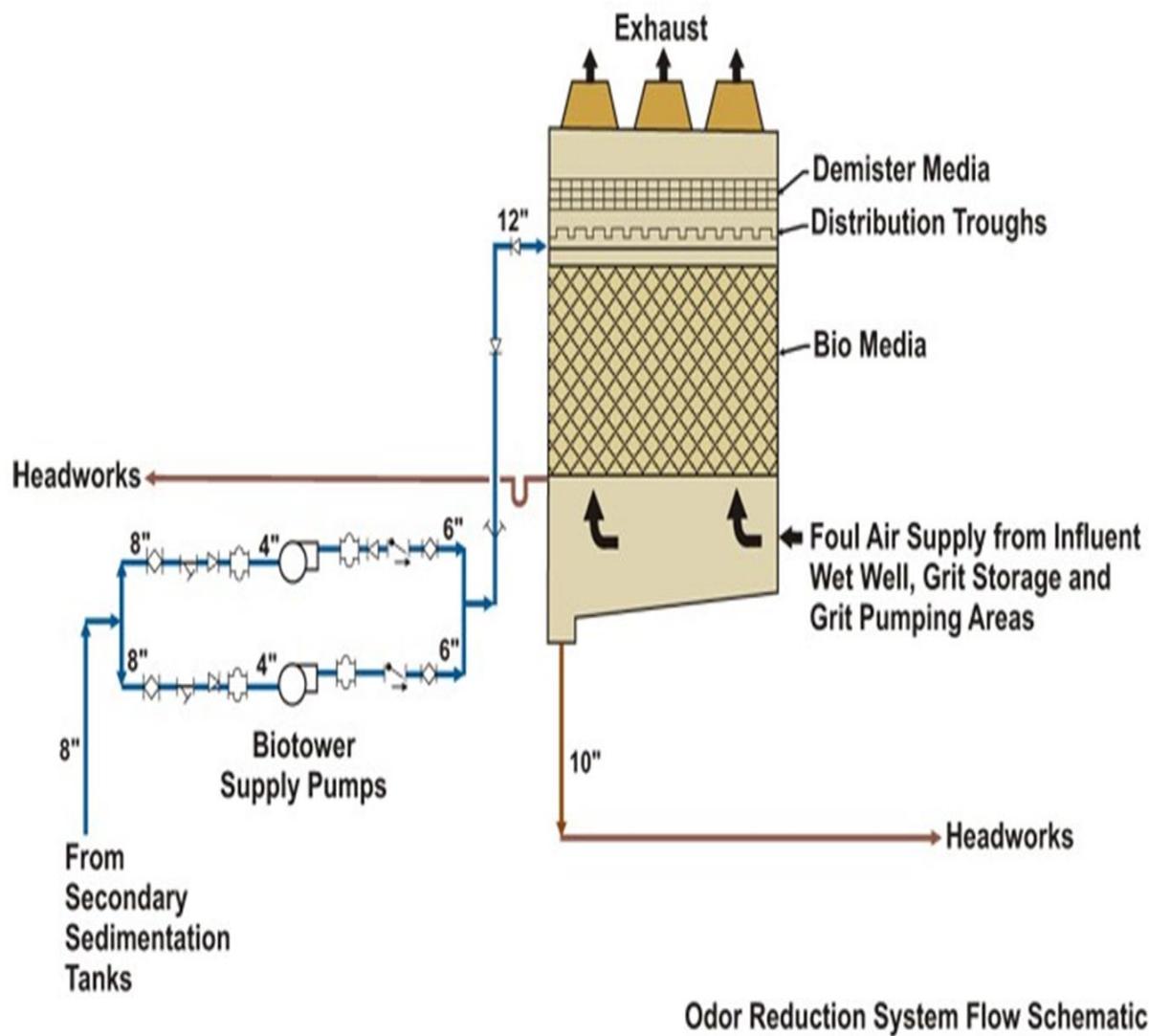
Dedicated Land Disposal Area

*STONERIDGE DRIVE*

# Odor Control Facilities

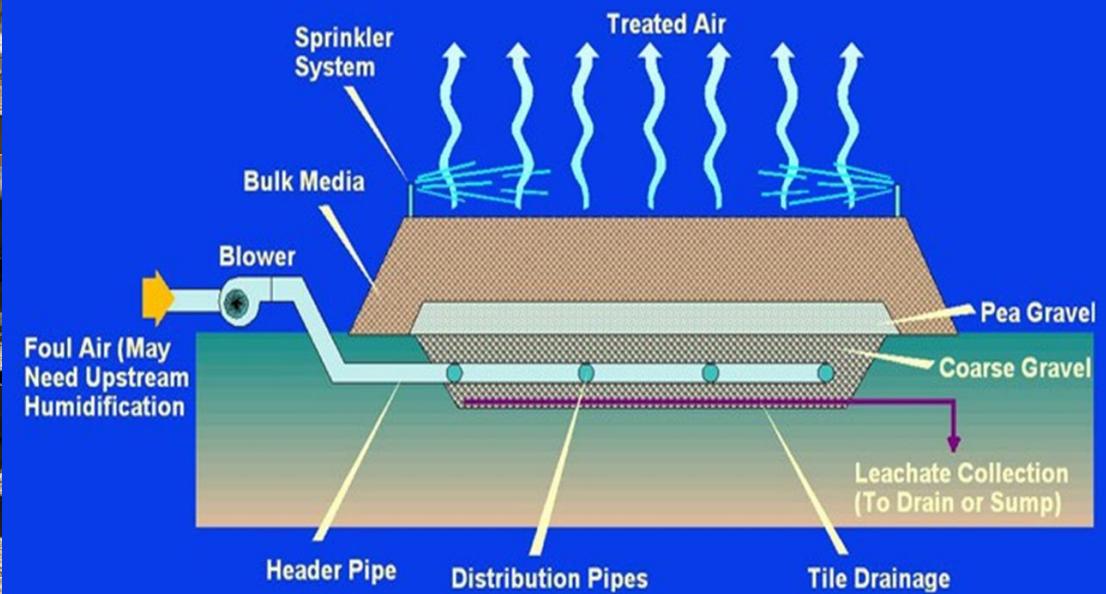


# Odor Reduction Tower





# Soil Bed Biofilters



# Response to Odor Concerns



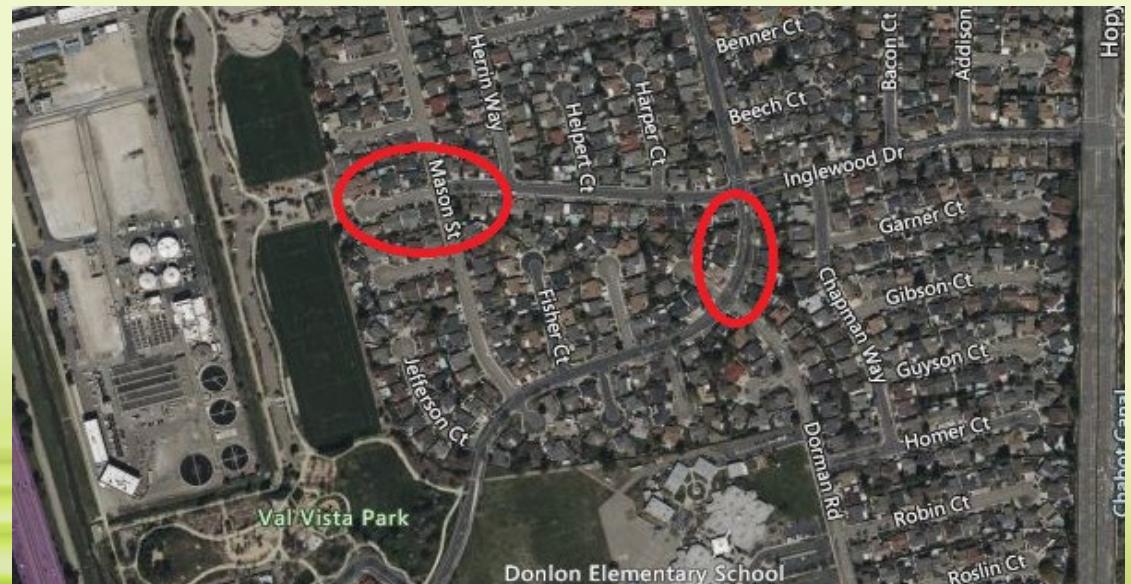
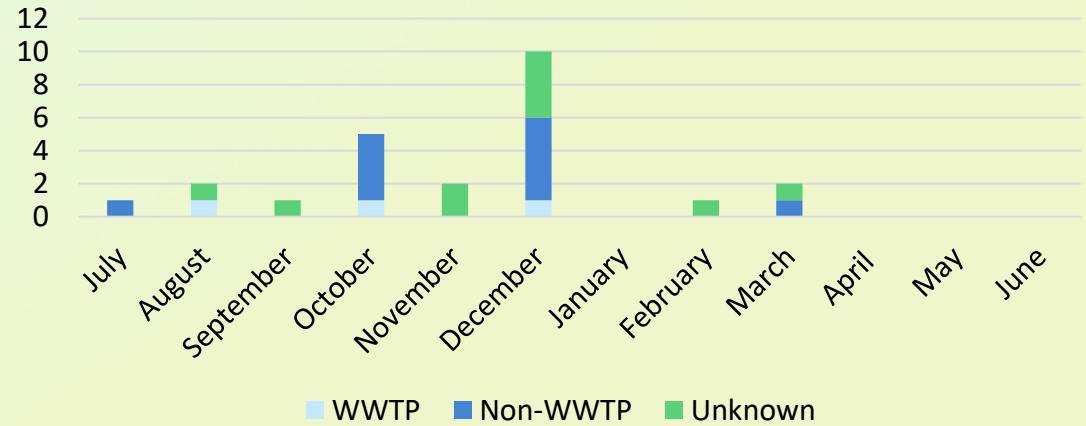
- **24/7 Odor Control Hotline**
- **Conduct Vicinity “Odor Checks”**
- **Investigate Findings**
- **Contact Source & Resolve**



# Odor Concerns

- 24 concerns received between July 2023 and June 2024
- All concerns were from the Val Vista neighborhood
  - Most from Inglewood & Mason area
  - Denker between Inglewood & Dorman.
- Example odor causes and responses

Reported Odor Concerns by Month  
(July 2023-June 2024)





## Upcoming Plant Improvements

# Fencing and Landscaping Improvements



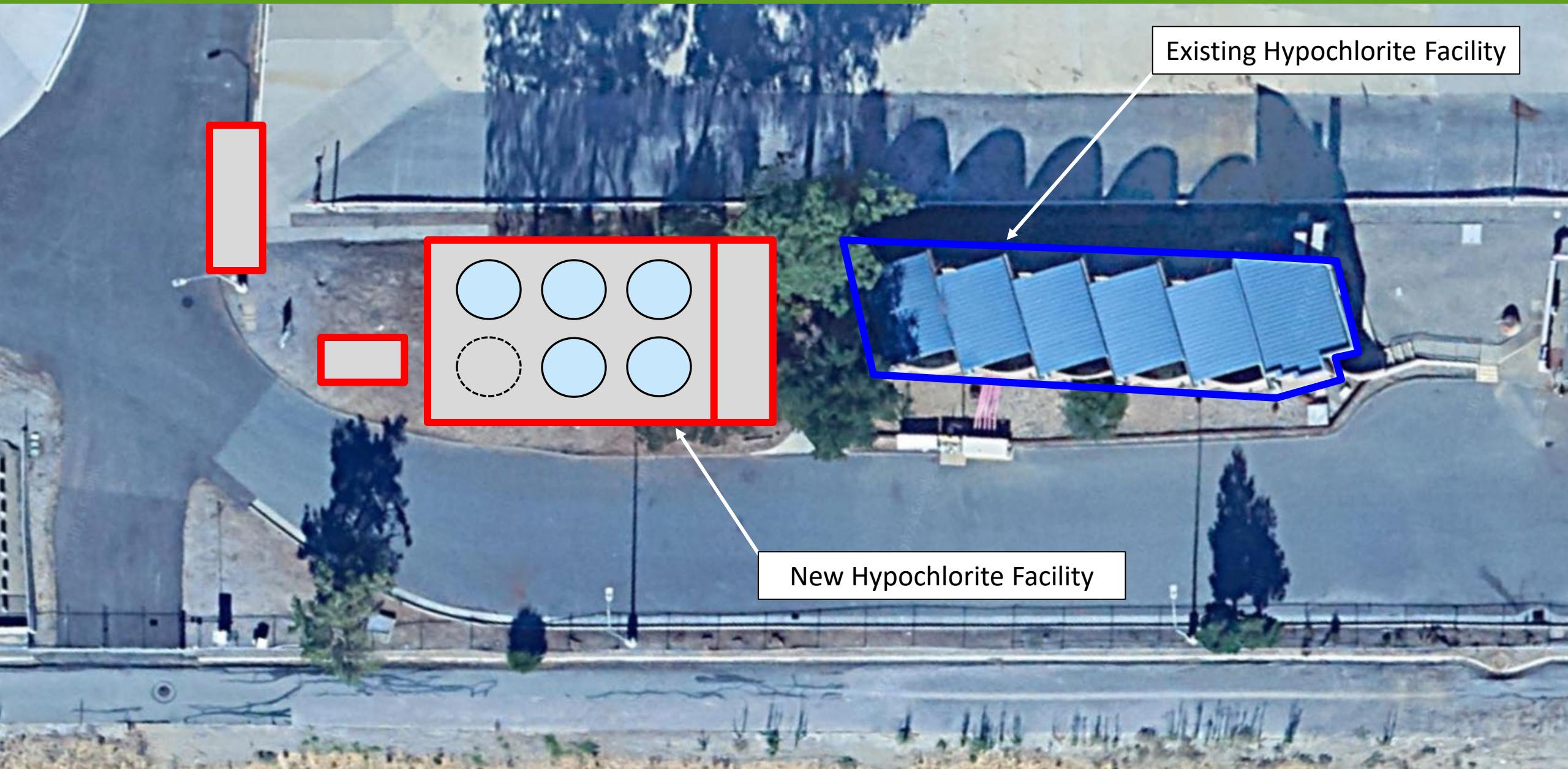
# Fencing and Landscaping Improvements



# New WWTP Disinfection Facilities



# New WWTP Disinfection Facilities





# Energy Policy

- Energy Diversification, Reliability and Resiliency
- Regulatory Compliance
- Reduce Energy Consumption, Enhance Energy Efficiency, and Reduce Greenhouse Gas Emissions
- Offset Future Energy Demands and GHG Emissions through Renewable Energy
- Fleet Management
- Funding Opportunities

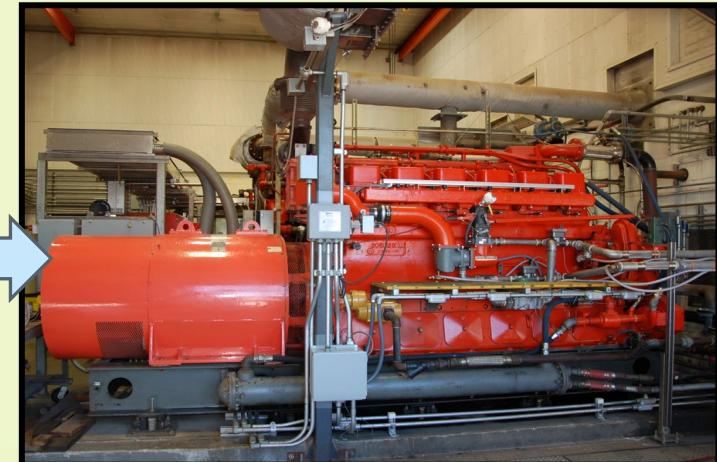
# Biogas Management



Anaerobic Digesters



Biogas Conditioning System



Cogeneration Engines

- Combustion of biogas ensures compliance with air quality permits and regulations
- Significant Energy Savings

PG&E  
(CY 2023)  
**\$0.36**  
per kWh

Cogeneration:  
Fueled w/ Biogas + PG&E Natural Gas  
**\$0.08**  
per kWh

# Biogas Management

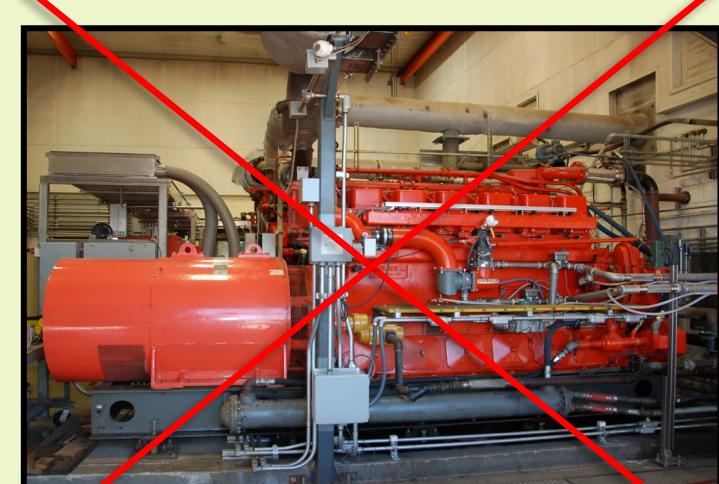


Anaerobic Digesters



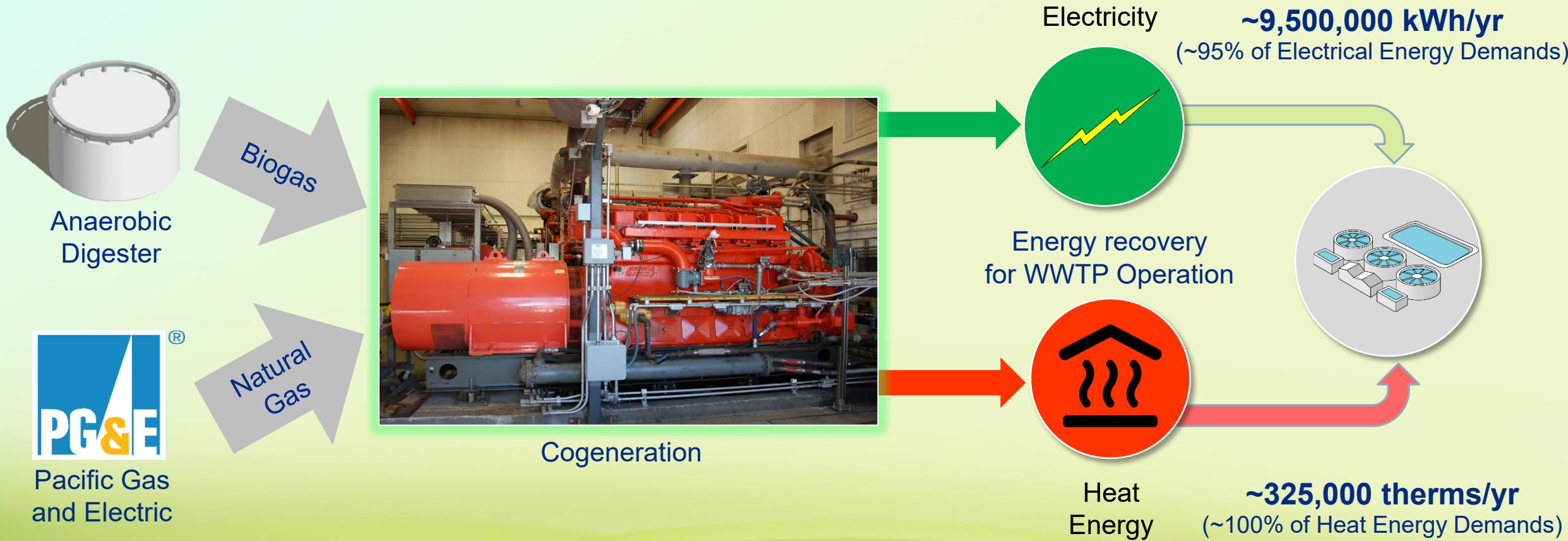
Waste Gas Burner  
(Biogas Flare)

*Maintenance Activities*



Cogeneration Engines

# Energy Generation through Biogas



Energy Facilities Master Plan: Replacement of the cogeneration engines in the next 5 to 7 years

# Biogas Treatment System Improvements



Biogas Conditioning System Upgrades



Biogas Flare Replacement

# PV Solar Power



# Regional Wastewater Treatment Facility



# Reducing Nutrient Impacts to the Bay

Recycled water program supports a healthy San Francisco Bay



Up to 80% nitrogen reduction during dry weather



**Dublin San Ramon  
Services District**

*Water, wastewater, recycled water*

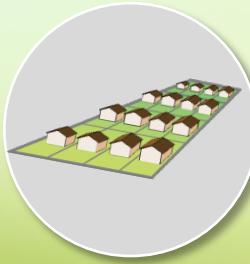
# Questions?

Odor Control Hotline  
(925) 519-0557

# Electrical Energy Demand



Total  
Electrical  
Demand:  
**~15 M kWh/year**



**~2,500 Homes**

