



# Winery Wastewater Management Update

Napa Sanitation District  
Board of Directors Meeting  
November 20, 2019



# Strategic Plan – Goal 3E

NapaSan staff will continue to receive winery waste on a limited basis through alternative methods, such as directly into the day storage tank or digester, to study the impacts to treatment. Successful methods will be evaluated for applicability at a larger scale, while including analysis regarding service costs and the economic market.



# Options for Wineries

- In NapaSan's service area, customers can connect to sewer system and discharge either untreated or pre-treated wastewater
- Truck wastewater to NapaSan for disposal
- Truck wastewater to EBMUD for disposal
- Truck wastewater to Napa Recycling and Waste Services for disposal

# Wastewater Strengths

Waste Stream	Average BOD
Domestic Waste	175 mg/L
Winery Waste	7,000 mg/L
FOG	15,000+ mg/L

Winery waste is strong enough to possibly overwhelm the aeration basins, but not as strong as FOG, which can be put in the digester to produce beneficial gas.



# Truck to Day Tank

- Pilot program to test impacts/benefits of adding winery wastewater to NapaSan's day tank
- Pilot program transitioned to practice
  - 30,000 gal/wk (1.5m gal/yr)
  - \$0.05 per gal



# New Information

- Napa Recycling will not be accepting winery wastewater for their composting process until summer 2020
- Wine Foundry electing to haul to EBMUD.



# Question

- How big is the problem?
  - NapaSan service area
  - Napa County
  - North Bay Area



# Old Statistics

- 13.5 million gallons annually from NapaSan's service area
- 25 permitted hold/haul facilities
- 54,000 gallons per working day
- 9 trucks per working day





# New Statistics

- 7 million gallons annually from NapaSan's service area
- 25 permitted hold/haul facilities
- 28,000 gallons per working day
- 4.3 trucks per working day



# Discharge to NapaSan

- Pay capacity charges
- Pay SSC (cost of treatment)
- Sampling/testing costs
- pH adjustment system (local limits)



# Case Study

- Small winery in corporate park in leased space
- 65,000 gallons process wastewater (annually)
- 10 trucks/year
- \$93k in capacity charges
- \$7k per year SSC



# Question

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# Future Steps

- Continue to monitor and evaluate winery waste volumes and coordinate with Napa Recycling.
- Provide update to the Board in October 2020.



# Direction to Staff