



# Biosolids Program Evaluation: Options and Opportunities

Subregional Technical Advisory Committee  
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Santa Rosa Water | Our Future in Every Drop

# Agenda

- Introduction
- Biosolids Program
- Challenges
- Opportunities



# Introduction

- What are Biosolids?
  - Solids from wastewater treated at LTP
  - Available for beneficial re-use
  - Degree of treatment dictates reuse options
    - Class B: Anaerobic Digestion
    - Class A: Composting



# Biosolids Program

- Program Goals
- Biosolids Volumes
- Reuse Options
- Program Costs



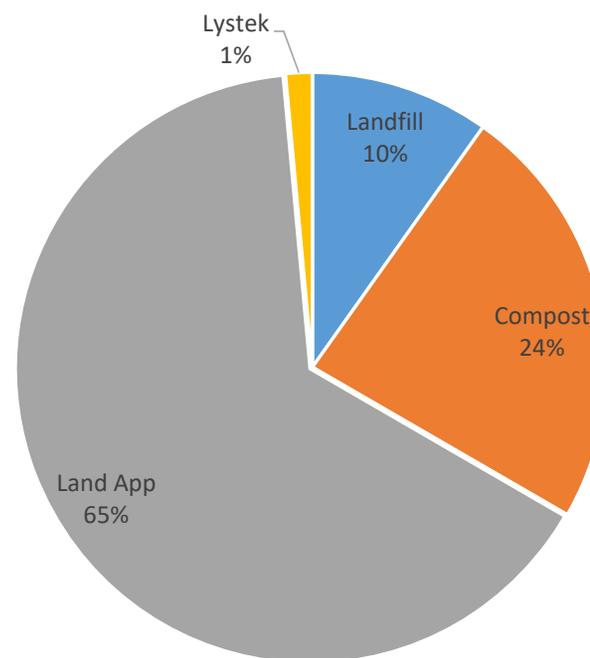
# Biosolids Program Goals

- Regulatory Compliance
- Reliable Performance
- Operational Flexibility
- Value to ratepayer
- Resilience

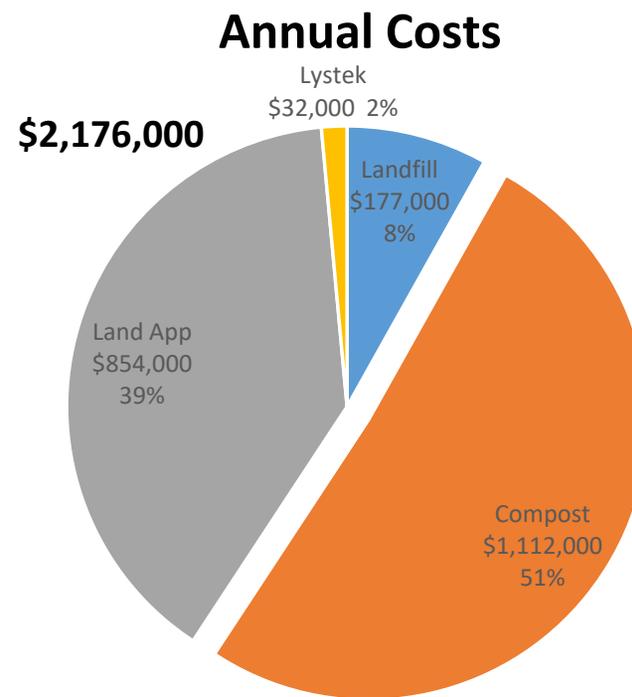
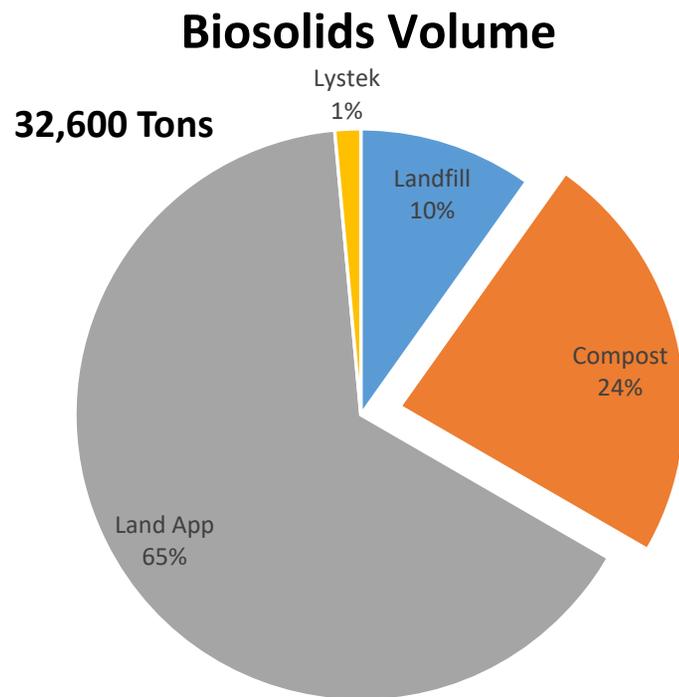


# Biosolids Program: Solids Disposition

Land Application	21,200 tons
Compost	7,800 tons
Landfill	3,100 tons
Lystek	500 tons
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Total	32,600 tons



# Biosolids Program: Costs



# Biosolids Program: Challenges

- Composting
  - Aging facility
  - \$5,000,000 immediate rehabilitation needed
  - Highest operational costs
- Land Application
  - Potential regulatory pressure
  - Competition for available land
- Landfill option ending



# Biosolids Program: Opportunities

- Two business entities have expressed interest
  - Lystek
  - Suez
  - Others?
- Proposal for long-term lease of Compost facility property



# Alternative Processing May Provide Savings

- Lystek: \$10.5M savings
  - Avoided capital costs + O&M savings
- Suez: \$4.2M savings
  - Cost of Facility + O&M savings
- Potential revenue from lease of compost site



# Alternatives to Composting Could Meet Program Goals

	Lystek	Suez
Regulatory Compliance	+	+
Operational Reliability	+	?
Operational Flexibility	+	?
Resilience over Time	+	+
Value to Ratepayer	+	+

# Renewable Sonoma Proposal for Facility Site



- Original proposed facility site was north of LTP along Meadow Lane

# Renewable Sonoma Proposal for Facility Site



- Preferred site is current LTP compost facility site and north of LTP
  - Less environmental impact, \$4-5M savings
  - Farther from neighborhoods
  - Existing water and stormwater infrastructure

# Biosolids Program Evaluation Results

- Potential to improve cost effectiveness of biosolids program and meet program goals
  - Two identified interested parties
  - Capital and O&M costs savings
- Potential to support site location for Renewable Sonoma organic material compost facility
  - Lease revenue

# Next Steps

- BPU consideration of solicitation for biosolids processing services (Request for Proposals)
- Issue RFP
- Convene selection panel
  - Determine if any proposal meets program goals
  - Select best proposal
- Present contract to BPU for consideration

