



City of
San  **Leandro**

INFLOW & INFILTRATION

Estimation of Costs



AGENDA

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Assumptions

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Operational
Costs

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Cost by
volume

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Estimate of
I&I

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I&I Study

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Oro Loma
Update

ASSUMPTIONS

NEGLIGIBLE IMPACT ON
CIP COSTS

IMPACT OF I&I VOLUME ON
COST OF SOLIDS
PROCESSING IS NEGLIGIBLE

SOME OPERATIONAL
COSTS ARE NOT
VOLUME DEPENDENT

USED FY 2025 AS
REFERENCE FOR
VARIABLE COSTS

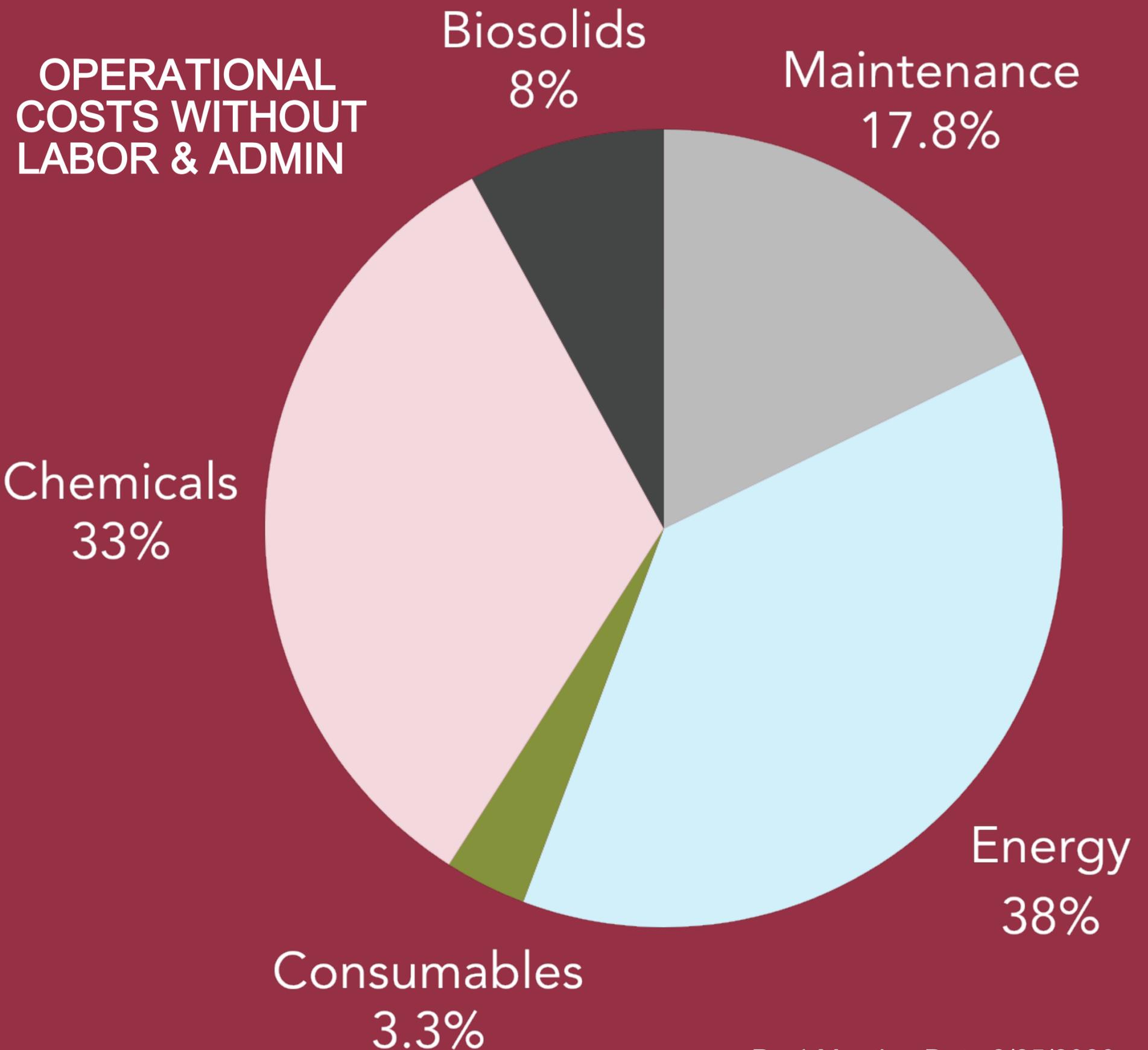
OPERATIONAL COSTS

Independent of Volume

Labor
Administrative
Other Government Agencies

Volume Dependent

Energy Consumption
Chemicals
Consumables
Maintenance and Repairs
Biosolids Management



VARIABLE COSTS

- ❑ Variable costs were calculated using the total cost in FY 25 for Electricity and Maintenance expenses as well as the usage of Sodium Hypochlorite at the Plant.
- ❑ The total variable cost in FY25 was \$1,362,611 and the volume of water treated in that period was 1745 Million Gallons (MG) with a per volume variable cost of \$781/MG.

ELECTRICITY

\$666,297
\$382/MG

SODIUM HYPOCHLORITE

\$284,180
\$163/MG

MAINTENANCE

\$412,134
\$236/MG

ESTIMATING I&I

Estimation of current I&I was calculated using this formula:

$$\text{Total Yearly Flow} - [\text{Average Daily Dry Weather Flow}] * 365$$

Average Daily Dry Weather Flow = average June-August daily flow over last 4 years

- Average Yearly Dry Weather Flow = **1626 MG**
- Variable Cost = **\$781/MG**

Fiscal Year	Total Flow (MG)	Percentage I&I	Estimated Cost due to I&I
2022	1728	5.91%	\$79,759
2023	2002	18.8%	\$293,950
2024	1844	11.81%	\$170,083
2025	1745	6.84%	\$93,219

I&I STUDY

Targeted approach to identify areas contributing to Inflow and Infiltration.

Narrowing location of problem areas and prioritizing fix based on precise data from real world measurements.

Initial Study Cost: 30 -40K

Follow up detailed study based on results of initial study

ORO LOMA UPDATE

- ❑ On track to implement ordinance July 1, 2026
- ❑ Open to discussing managing a PSL0 program for City's wastewater service area if it is determined to be mutually beneficial.

QUESTIONS