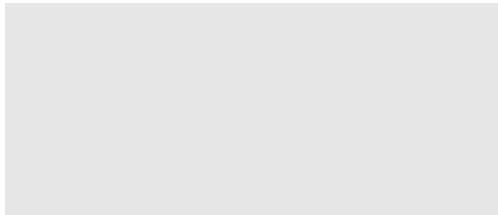
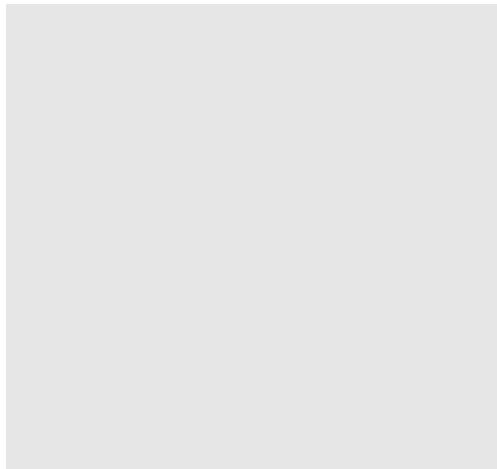


# LEON VALLEY 2023 IMPACT FEE PROPOSAL







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ARDURRA



# AGENDA

-  Existing Impact Fee
-  Population Projections
-  Water Sourcing
-  Capital Improvements
-  Potential Proposed Impact Fee
-  Proposed Impact Fee Comparison

# IMPACT FEES - DEFINED

An impact fee is a one-time charge imposed on new development to help recover capital costs associated with providing the infrastructure and other required improvements to provide service to that new development.



# EXISTING IMPACT FEES

- Last time Impact Fee rates were increased was in 2008.
- Current Rates – Water Only:

Size of Meter	Water Supply Impact Fee	Development Impact Fee
5/8" & 3/4"	\$1,242	\$450
1"	\$2,074	\$750
1 1/2"	\$4,136	\$1,500
2"	\$13,252	\$4,800
3"	\$20,704	\$7,500
4"	\$27,324	\$9,900
6"	\$33,943	\$12,300
8"	\$41,396	\$25,000
10"	\$66,199	\$24,000

# GROWTH PROJECTIONS

- Census data from 2010
  - *Population: 10,151*
- Census data from 2020
  - *Population: 11,542*
- Growth rate of **1.29% annually** from 2010 to 2020
- Current meter count from Leon Valley
  - **2,576 meters**
    - 2,288 residential
    - 288 commercial
  - *Most are 5/8" meters (2,245 or 87%)*
- If rate of growth from 2010 to 2020 is assumed to continue
- Current population in 2023 is estimated to be
  - 11,842
    - **4.6 residents per meter**
- Population in 2033 is estimated to be
  - **13,368**
- Using same meter ratio as before it is estimated in 2033, the city will have:
  - **2,965 meters**
- A growth of **390 meters** in 10 years



# ASSUMPTIONS REVIEW

- Growth of 1.29% annually over next ten years
- Ratio of 4.6 residents per meter
- Undeveloped land in Leon Valley
  - *Estimate 150 acres*
    - About 40 individual residential lots currently undeveloped ( > 1 acre)
    - Assume 10% never to be developed
      - Floodplain
      - Adjacent to existing owned property
      - Untenable





# WATER SOURCING

- The City of Leon Valley currently owns 1,758.38 acre-feet of Edwards Aquifer water rights.
- The city rarely gets access to its full water rights due to withdrawal reductions during Edwards Aquifer water restriction stages.

Owned Water	Critical Period Stage	Withdrawal Reduction	Withdrawal Reduction – Owned Water
1,758.38	I	20%	1406.7
1,758.38	II	30%	1230.8
1,758.38	III	35%	1142.9
1,758.38	IV	40%	1054.9

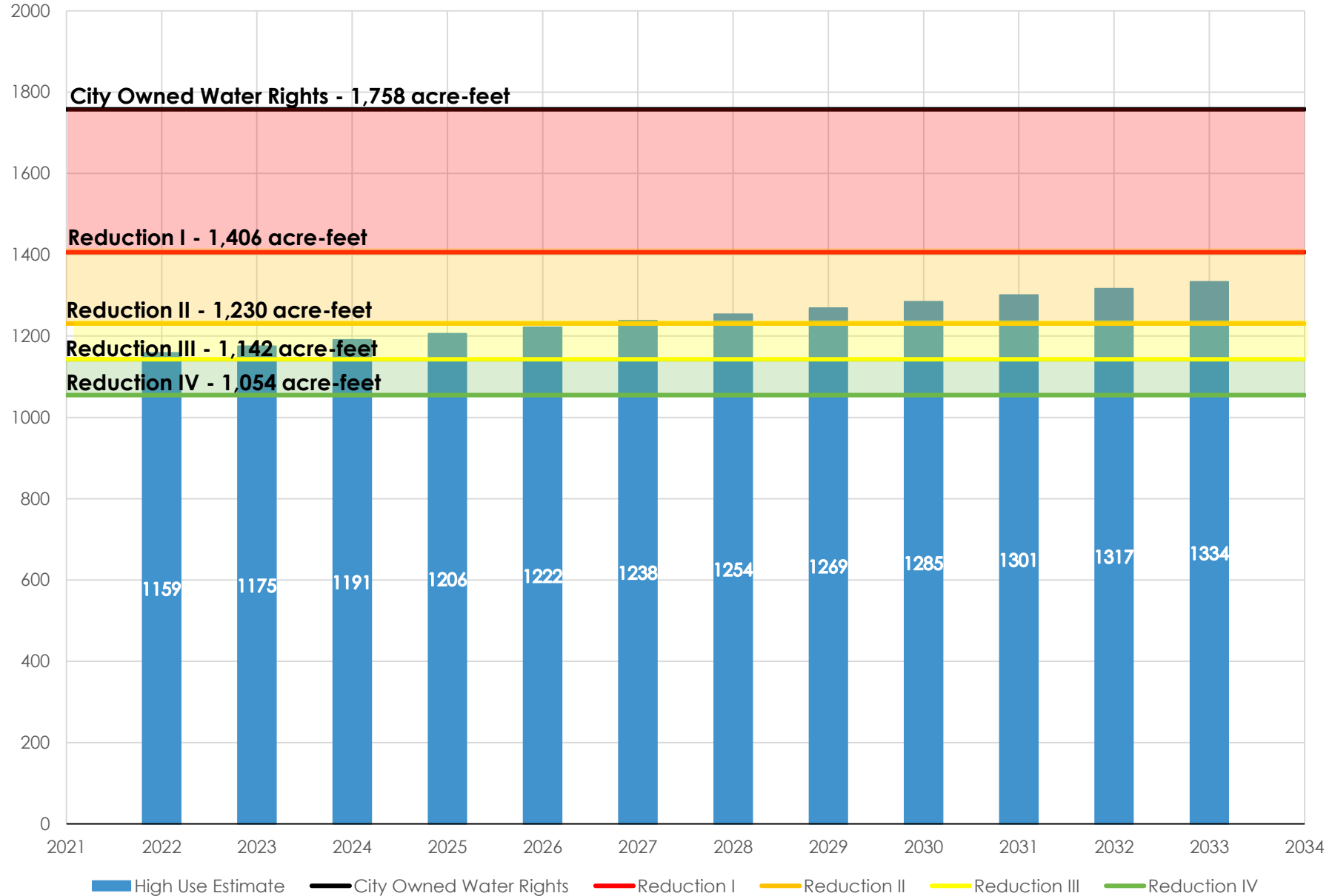
# WATER USAGE – HIGH ESTIMATE

- In 2018, Leon Valley reported having 2,440 meters and using 1,086 acre-feet of water.
  - *~0.45 acre-feet / meter*
  - *Highest per-capita water usage in recent history*
- Assume this per-meter-usage to give a high estimate of potential water demand in 2033
- $(0.45 \text{ acre-feet / meter}) * (2,965 \text{ meters})$ 
  - **1,335 acre-feet of water**

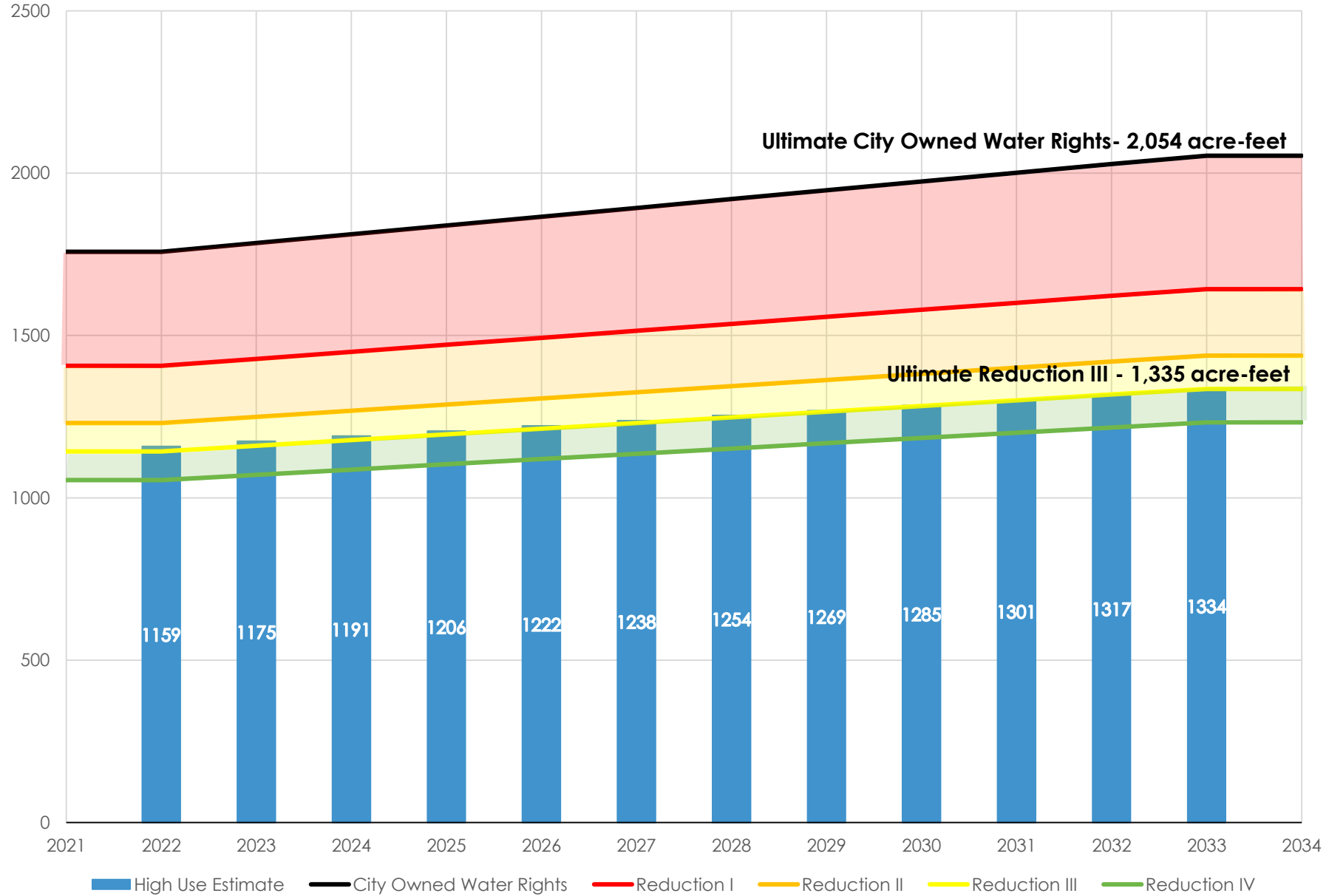




# Estimated Leon Valley Water Use Over Time



# Estimated Leon Valley Water Use Over Time



# WATER SOURCING

- If the city assumes being kept under water restriction stage III, but wants to keep capacity above estimated high demand, it will need to own:
  - **2,054 acre-feet of water rights by 2033.**

Owned Water	Critical Period Stage	Withdrawal Reduction	Withdrawal Reduction – Owned Water
2,054	I	20%	1643.1
2,054	II	30%	1437.7
<b>2,054</b>	<b>III</b>	<b>35%</b>	<b>1335.0</b>
2,054	IV	40%	1232.3

# WATER SOURCING

City estimates cost per acre-foot of water rights acquisition at \$6,100/acre-foot.

*Includes closing cost*

To reach water source goal in 2033. It is estimated it will cost the city approximately:

**\$2,067,260**





# CAPITAL IMPROVEMENTS

City of Leon Valley currently has 400,000 gallons of elevated storage capacity.

*Enough to serve 4,000 meters per TCEQ*

The City will need to replace the 100,000-gallon Marshall Elevated Storage Tank in the next ten years with a larger tank.

Replacing existing tank with a 150,000-gallon elevated storage tank is estimated to cost

**\$750,000**





# TLGC CHAPTER 395 CREDIT

- The Texas Local Government Code Chapter 395 requires utilities to calculate a credit for growth related Capital Improvements Projects (CIP) to be subtracted from the impact fee.
- The credit is based on the amount of projected future rate revenues or taxes expected to be generated by the new development and used to pay for capital improvements identified in the CIP. This credit provides an adjustment to benefit fee payers who will pay for CIP in both the impact fee and their future rates and taxes.
- Utilities can calculate this credit and apply it to the calculated impact fee or alternatively, **can avoid having to calculate the credit by opting to use the statutory credit equal to 50% of the calculated impact fee.**
- **City Engineer Ardurra has opted to estimate impact fees here by statutory credit of 50%.**

# IMPACT FEE CALCULATION

- The impact fee per service unit is calculated by dividing the growth-related CIP costs by the projected number of total service units.
  - 390 service units over 10 years
- Then crediting 50% per TLGC Chapter 395

Description	CIP	Calculated Impact	Max Impact Fee (50%)
<b>Water Supply</b>	\$2,067,260	\$5,300.00	\$2,650.00
<b>System Development</b>	\$750,000	\$1,923.00	\$962.00

For 5/8" & 3/4" meter



# PROPOSED IMPACT FEE COMPARISON - SAWS

- For reference, see table below for comparison of proposed fee to SAWS current impact fees adopted in 2020.
  - *Leon Valley does not need to increase the size of the mains, therefore a flow impact fee is not needed*

Description	SAWS Impact Fee	Proposed Leon Valley Impact Fee	Existing Leon Valley Impact Fee
<b>Flow Impact Fee</b>	\$1,188.00	\$0.00	\$0.00
<b>Water Supply Impact Fee</b>	\$2,706.00	\$2,650.00	\$1,242.00
<b>System Development Impact Fee</b>	\$855.00	\$962.00	\$450.00
<b>Total Impact Fee</b>	<b>\$4,749.00</b>	<b>\$3,612.00</b>	<b>\$1,692</b>

For 5/8" & 3/4" meter

# RE-EVALUATE IMPACT FEES REGULARLY

Impact fees will need to be re-evaluated every 5 years

New capital improvements projects

Population projections

Development projections



**THANK YOU FOR YOUR  
TIME TODAY**

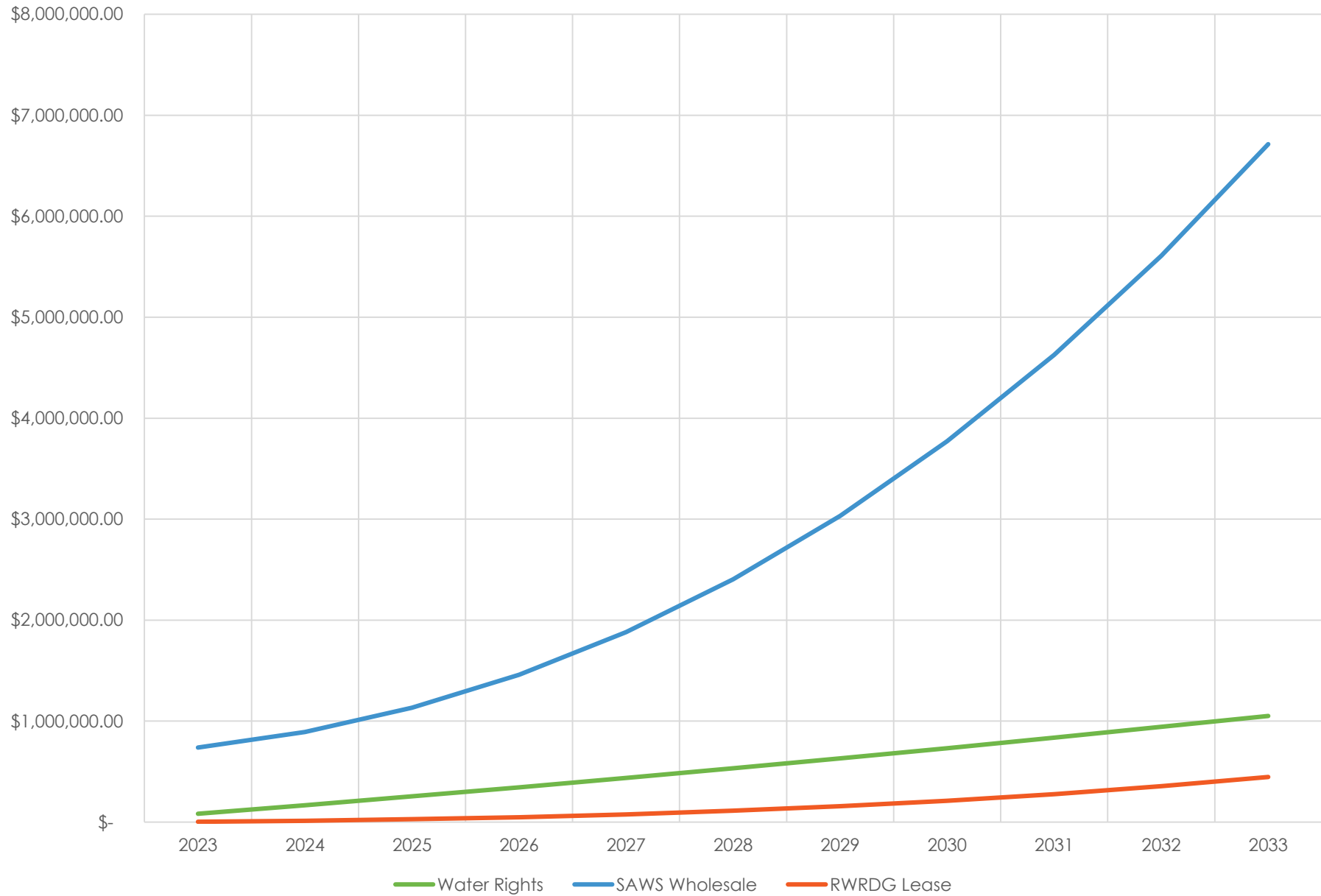
Questions?



# WATER SOURCING – WHOLESALE AND LEASING

- The city can purchase water from SAWS wholesale.
  - \$216,645 per year for 100 acre-feet
  - \$278,133 per year for 100 acre-feet when in critical period management
  - Not refunded for unused water
  - A one-time Impact Fee of \$662,580.00 would also be due (based on meter size, not acre-feet)
- Regional Water Resource Development Group (RWRDG) has water leasing options. Cost per year is dependent upon length of lease.
  - \$12,480 per year for 100 acre-feet on a 2-year lease
  - \$15,600 per year for 100 acre-feet on a 10-year lease
  - Also offer 3-year and 5-year leases
  - No Impact Fees
- Note that leasing water rights does not fall under money eligible for recouping in impact fees.

# Cost Comparison Water Rights Purchase vs SAWS vs RWRDG



# Cumulative Cost Comparison Purchase Water Rights Vs RWRDG Lease

