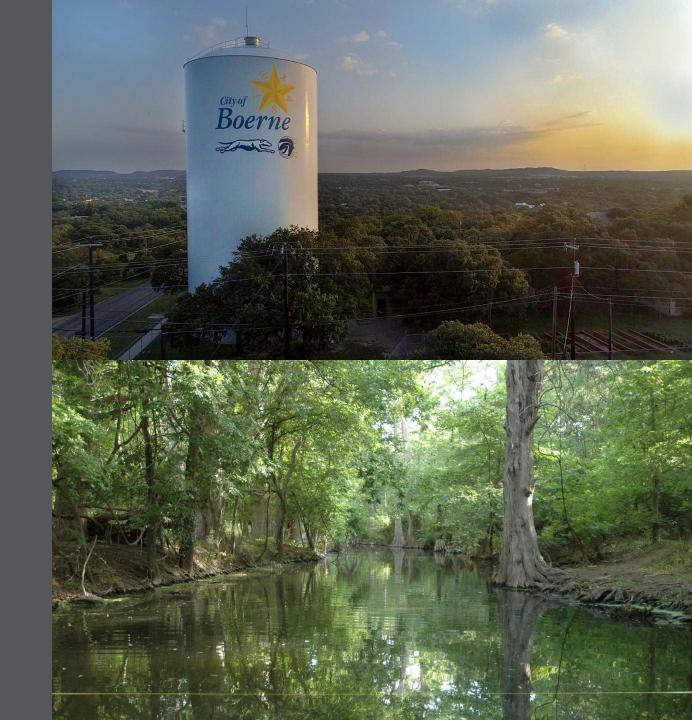


One Water Roadmap

**City Council Meeting** 

November 12, 2024

**F**S



#### AGENDA

- 1 Boerne's One Water Roadmap
- 2 Boerne's One Water Future



# Boerne's One Water Roadmap

### What is One Water?

- Flexible, long-term strategy for comprehensively managing drinking water, reclaimed water, wastewater, and stormwater
- Maximizes environmental and community benefits
- Boerne City Council 2023 resolution supporting One Water initiatives

#### RESOLUTION NO. 2023-R84

A RESOLUTION OF THE CITY OF BOERNE, SUPPORTING INNOVATIVE ONE WATER STRATEGIES AND DIRECTING STAFF TO EXPLORE SUCH STRATEGIES IN PUBLIC AND PRIVATE DEVELOPMENT PROJECTS

WHEREAS, the City of Boerne has three primary sources for its potable water supply, including surface water from Canyon Lake and Boerne City Lake as well as groundwater from the Trinity Aquifer, and

WHEREAS, the City's water sources are vulnerable to conditions that could limit their availability including drought, reduced recharge, water quality impairments, and heightened demand on regional supplies; and

WHEREAS, without a renewed approach to water supply management, the City could face water shortages in the future; and

WHEREAS, the City of Boerne has already demonstrated its commitment to water conservation and resilience through its capital investments in the creation of retail reclaimed water distribution system, automated meter reading, water main replacement, and aggressive leak detection and repair to curb water loss; and

 $\ensuremath{\mathsf{WHEREAS}}$  , acquiring additional water rights and supplies would be very expensive; and

WHEREAS, our region has a history of and reputation for innovative water conservation strategies that produce results, including a tradition of rainwater harvesting and public education campaigns related to groundwater recharge and water conservation; and

WHEREAS, a commitment to water conservation is only one of the necessary steps to water security and resiliency in the future; and

WHEREAS, the City has a responsibility to ensure water supplies in the future can meet demand, and to employ innovative strategies to that end, when necessary; and

WHEREAS, there is a growing suite of water infrastructure and management strategies known as "One Water" that is proving its effectiveness in several Texas communities and across the country; and

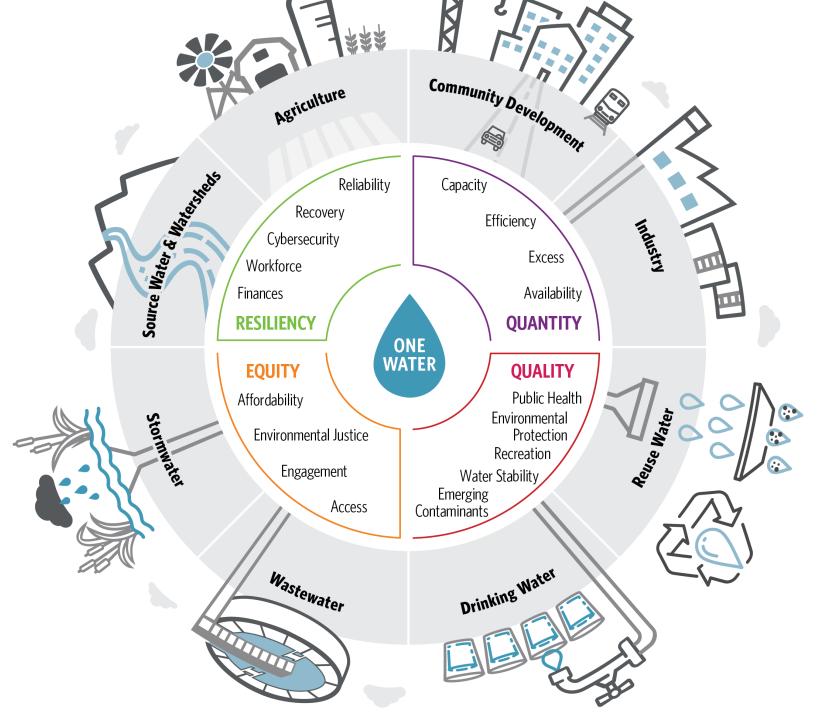
WHEREAS, "One Water" is defined as an integrated approach to water management that views all water in our community—drinking water, wastewater, stormwater, greywater—as a single resource to be managed holistically and sustainably, for the benefit of strong economies, vibrant communities, and healthy environments; and







#### One Water Hydrologic Cycle



#### **Boerne's One Water Roadmap**

- 2024 City began developing Roadmap
- Guide development and refinement of One Water strategies that support implementation of multi-beneficial policies, programs, and projects
- Share with local and regional watershed partners and stakeholders to promote collaboration and leverage economies of scale
- Educate City leaders, elected officials, staff, and members of community regarding One Water benefits through the One Water Community Education and Outreach Plan.



Improved Water Sustainability and Resource Efficiency



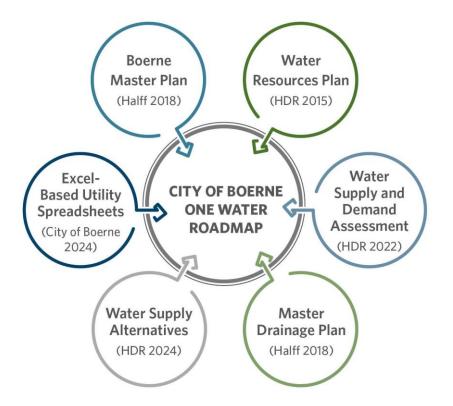
Enhanced Community Involvement and Support



Better Water Quality and Ecosystem Health

#### **Roadmap Elements and Development Process**

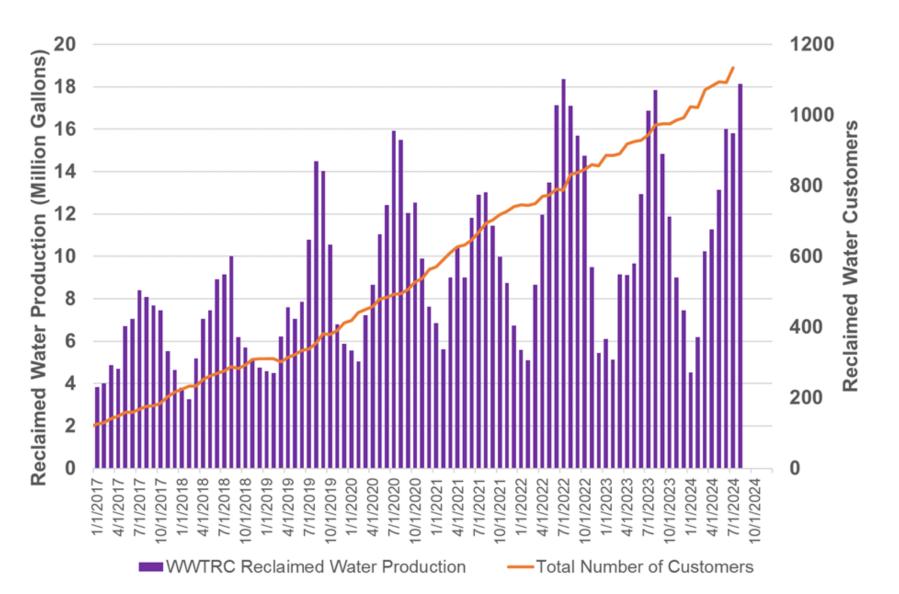
- Opportunities to address City priorities
  - Infrastructure to support growth
  - Increased water planning and conservation efforts
  - Opportunities to Achieve 2018 Master Plan Action Recommendations
- Assess Future Plans for Water Supply, Wastewater Treatment, Reclaimed Water, Stormwater





#### **One Water Highlight**

#### **Boerne's Retail Reclaimed Water System**



#### **Assessment and Visioning Workshop**

#### June 21, 2024

City's Planning, Communications, Utilities, Engineering and Mobility, Environmental Compliance and Program Management departments



**Visioning Word Cloud** 

**Goals Word Cloud** 



### **Aggregated Goals for Boerne One Water Roadmap**

- 1. Expand Reclaimed Water Use and Promote Conservation: Increase the utilization of reclaimed water and advocate for water conservation practices.
- 2. Enhance Public Education and Community Engagement: Develop robust public education programs and foster community support and engagement for water management initiatives.
- **3. Protect Water Quality and Stream Health**: Implement measures to safeguard water quality and protect streams from pollution and degradation.
- **4. Improve Communication and Collaboration**: Establish effective communication strategies to share achievements and enhance collaboration among stakeholders for multi-benefit projects.
- 5. Ensure Balanced and Inclusive Water Management: Strive for balanced water management that includes community outreach, actionable strategies, and a clear vision for sustainable water use.

Based on input received during Workshop

### **One Water Community Education & Outreach Plan**

- Potential community outreach tools include:
  - Community focus groups
  - Public workshops
  - $_{\odot}\,$  Website and social media
  - $\circ~$  Individual interviews with community leaders
- Community can become active partners and advocates for implementation of One Water strategies and actions.





# Boerne's One Water Future

### **Boerne's One Water Future**

Roadmap provides:

- Vision,
- · Goals,
- Strategies, and
- Specific actions

...to guide continued and future collaboration and implementation of all water management projects, programs, and policies for the City and its watershed.

City leaders, elected officials, management, staff, and community can use the One Water Roadmap as a guide for developing, applying, and enhancing water policies, projects, and partnering decisions.



Cibolo Creek downstream of WWTRC



Reclaimed water tower at Esperanza

# **Questions?**

## **Thank you!**

