Citizen Rate Review Committee

Wastewater



Wastewater Service Area



- Liberty and EPCOR serve a portion north of the interstate
- Approximately 20,000 service connections
 - Single-family 20,315
 - Multi-family 16
 - Non-residential 258
- Serving a population of approximately 60,000
- Build-out population 718,280





SAFETY • RELIABILITY • IMPROVEMENT

Collection System

- 14 Lift Stations
- 1 Grinder Station
- > Over 6,000 manholes
- > Over 260 miles of gravity mains
- Almost 10 miles of force main





SAFETY • RELIABILITY • IMPROVEMENT

3 Plants

- Goodyear Water Reclamation Facility (6 MGD)
 - > AKA 157th Avenue Reclamation Facility
- Corgett Water Reclamation Facility (0.75 MGD)
- Rainbow Valley Water Reclamation Facility (0.70 MGD)





























































Critical Projects



- Goodyear WRF Expansion and Site Improvements
- Brine Management
- ► Recharge
- Pretreatment Local Limits
- Rainbow Valley Expansion
- Collection System R&R

Operational Goals and Strategies



- Environmental Protection
 - WET Testing
- Regulatory Compliance
 - AZPDES
 - APP
- Customer Satisfaction
- Reliability of operations



Capital Goals and Strategies



- Environmental Protection
- Regulatory Compliance
- 100% Beneficial Reuse
- Support development

Questions

CITY OF Goodyear

Vision: To become the most water efficient city in the Valley while maintaining a high quality of life.

Mission: To create a water conservation culture.

Smart, Innovative, Sustainable

Water Conservation Committee Recommendations: Update



IN ORDER OF PRIORITY

- 1. The Creation Of A New Landscape Design Committee
- 2. Water Conservation Rate Structure
- 3. Comprehensive Citywide Tree Plan
- 4. Advanced Metering Infrastructure (AMI)
- 5. Community Education and Awareness

- 6. Landscape Incentive Program
- 7. Pool Committee
- 8. Customer Friendly Services
- 9. Water Main Flushing Program
- 10. Smart Controllers Pilot Program
- 11. Home Irrigation Check-ups
- 12. Water Intensive Exceptions



Water Conservation Rate Structure

Consider a new conservation water rate structure promoting efficient water use and one that could provide financial support for water conservation programs or projects.

- Rate structure is already a tiered system that promotes conservation
- Financial support for water conservation will be part of a future discussion





Landscape Design Committee



- Committee has been established and has met 4 times to update standards that will eventually be approved through a public process
- Currently on hold due to COVID-19







Comprehensive Citywide Tree Plan

Mitigate the urban heat island effects, improve water efficiencies in outdoor water usage, and provide a strategy for improving the quality of life outdoors and walkability of the city.

- Bike and Pedestrian Path Shade study was released in June 2019
- Includes tree inventory, best practices for adding shade coverage, tree maintenance guidelines, and budget guidance
- Findings can be added to landscape design standards



Advanced Metering Infrastructure



Develop a citywide expansion of AMI that would allow water customers to see and interact real-time with their water consumption and not only catch water leaks but assist them in better managing their individual water budgets.

- AMI meters are being installed for new development and as older meters fail
- Starting this year, there is CIP money set aside to replace all of the meters
- Additional infrastructure investment is needed in order to obtain real time data





Community Education & Awareness

Provide a comprehensive community education and awareness program that provides specific strategies for increasing water efficiency within Goodyear.

- Several events including Spring Training
- "Topics on the Move" (TOM) van
- Digital Engagement: Water Wednesday, trivia, and bingo
- Conservation campaign
- Virtual water conservation classes



Landscape Incentive Program



Establish a program for the conversion of existing water intensive landscapes to more efficient landscapes.

- Planning an incentive program to encourage the use of low water-use plants. To qualify for the incentive, residents must take one of our water conservation classes.
- Exploring grant opportunities to fund turf removal for HOAs (currently there are 194 acres of HOA turf that use approximately 300 million gallons of water a year).



Customer Friendly Services



Provide a more personalized approach to assist customers in the sustainable use of water and access water conserving programs.

- Started offering personalized water efficiency reports to residents, HOAs, and businesses
- Advertised through social media, website, and Good Neighbor newsletter
- So far 15 reports for residents have been created
- Reports showed a 23% water savings opportunity if residents were more efficient



Smart Controllers Pilot Program



Determine the average percentage of water savings realized by homes using smart irrigation controller technology.

- Flume pilot- purchased 13 Flume smart water systems that shows real time water usage including leaks. Average savings is 10%.
- Smart Irrigation controller pilot- will purchase 100 devices and conduct a year study to see the average water savings in Goodyear. Average savings is 20%



Pool Committee



Establish a new committee to develop a new set of pool design standards and guidelines for all development that will increase pool water efficiency.

 Has not been addressed yet but there is potential to obtain additional outdoor water use data from the Flume pilot



Home Irrigation Check-ups



Re-establish and expand the home irrigation check-up program with an emphasis towards the city's highest residential water users.

- Will revisit the idea post-COVID
- Partnering with AMWUA to offer DIY videos to teach people how to do a home audit themselves



Water Main Flushing Program



Explore new technology that conserves and recycles water and enhances water quality within the water distribution system as part of a system-wide water-flushing program.

- Some research has been done about the different technologies, but was found to be cost prohibitive.
- Going to study a water main flushing strategy with the new water supply to be as water efficient as possible



Water Intensive Exceptions



Develop new city policies that provide exceptions to certain water-intensive activities where the greater good of the city may have value that exceeds the value of the water resources, efficiencies, and conservation.

- The IWMP has allocated water to support development
- High water industrial users could be required to BYOW- bring your own water



Questions?