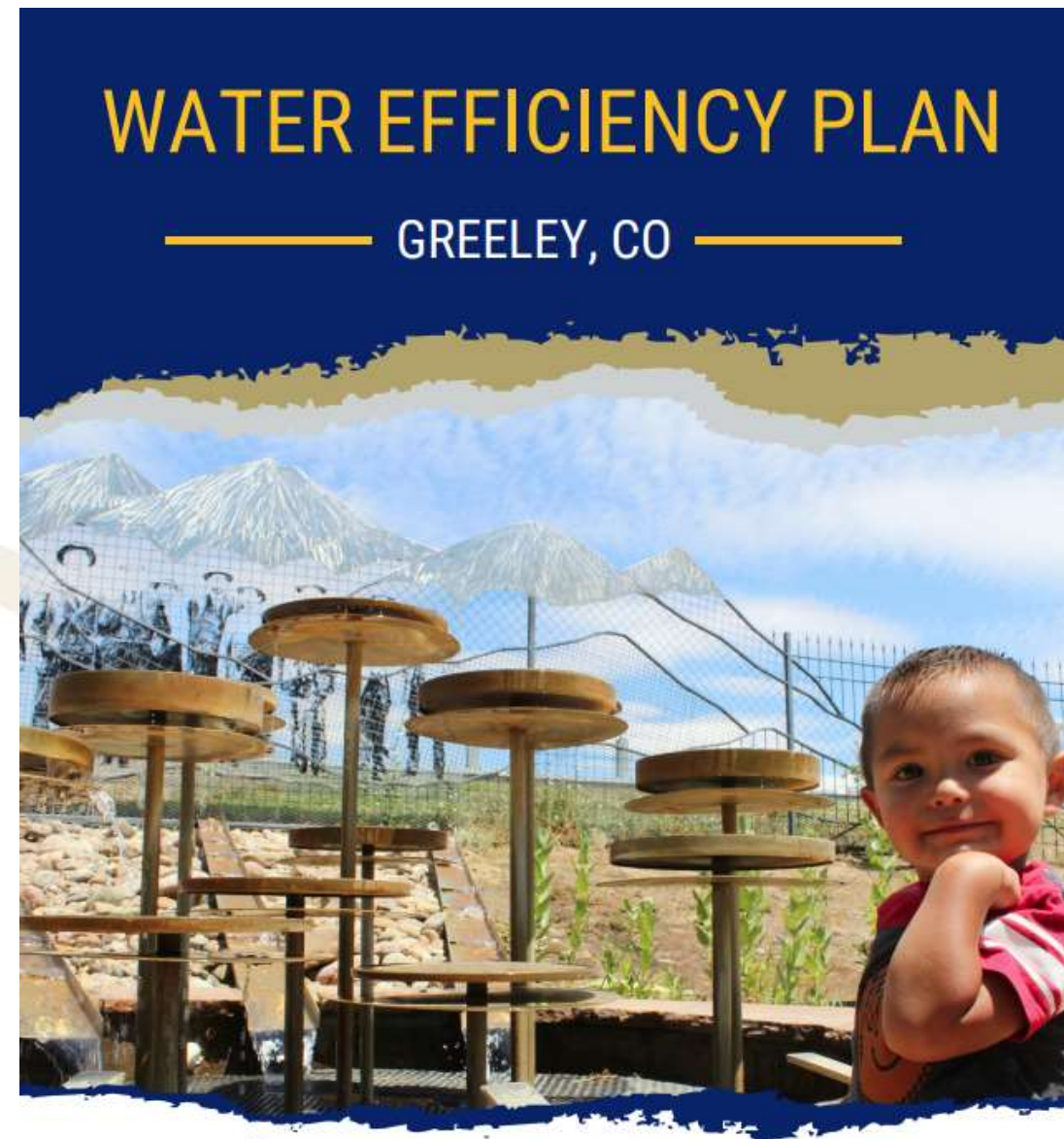


# 2022 Water Efficiency Plan Update

December 6<sup>th</sup> 2022

City of Greeley Water & Sewer Utilities Department  
[www.greeleygov.com/water](http://www.greeleygov.com/water)



2022

# Water Supply Sustainability Strategy

- Continue acquire water and build on Greeley's water conservation legacy
- Provide water wise landscape education
- Adopt innovation and technology that supports water use efficiency
- Water for a livable community with healthy landscape and tree canopy for current and future Greeley residents



# Water Efficiency Legacy

- **Water Conservation is an important element of Greeley's long-range water supply planning**
  - Water & Sewer Water Master Plan, - 2004
  - Water Conservation Plans - 2008 and 2015
  - Imagine Greeley Comprehensive Plan, - 2018
  - Water & Sewer's Drought Emergency Plan - 2021
  - Water & Sewer's Non-Potable Water Master Plan - 2021
  - Advanced Metering Infrastructure Project, - 2020 – 2025
  - Water & Sewer's Integrated Water Resources Plan - 2023





# Water Efficiency Plan (WEP)

- **Required by the State (C.R.S. §37-60-126)**
  - Plan update required every seven years
  - Prior conservation plans (2008 & 2015)
- **WEP is a technical guidance document**
  - Goal: To guide continuous efficiency improvements
    - Create efficiencies, synergies, and consistencies among policies, plans, and programs
    - Set goals to measure success and progress



# Achieving WEP Goals



## Utilize Criteria for Selection of Water Efficiency Activities

- Water Savings Potential
- Initiative Cost Effectiveness
- Contribution to Community Vitality
- Likelihood of program success

# WEP Score Card Goals & Strategies

## Measuring Program Success

- **Community**
  - Education, Training, Future Ready Program Design
- **Prosperity**
  - AMI Metering, Leak Detection, Efficiency Rebates Income Qualified
- **Conservation Management**
  - Data Driven Programs, Water Loss Analysis, Land Use, Drought Reserve Fund, and Collaboration within the City

Community	Performance Indicators	Status	Resources Allocation
Education- Lecture and Presentations	<ul style="list-style-type: none"> <li>Educational awareness of methods for water conservation.</li> <li>Community outreach and engagement for classrooms, civic clubs, and other groups.</li> <li>Work to enhance cohesiveness of presentations and water related topics.</li> </ul>	Ongoing	<ul style="list-style-type: none"> <li>Staff Time- Full time person assigned to Water Conservation Administration</li> <li>Guest speakers</li> <li>Educational materials</li> <li>Marketing</li> </ul>
Education-Teacher Training	<ul style="list-style-type: none"> <li>Provide teachers credits for water and conservation</li> </ul>	Ongoing	<ul style="list-style-type: none"> <li>Staff Time- Full time person assigned to Water Conservation</li> </ul>
Education- Tours	<ul style="list-style-type: none"> <li>Rebates and Incentives                             <ul style="list-style-type: none"> <li>Annual review of rebate program including alignment with state and federal standards, industry changes and data-driven decisions on rebate performances.</li> <li>Annual review of return on investment and water savings.</li> <li>Alignment with the Water Department &amp; City initiatives.</li> </ul> </li> </ul>	Ongoing	<ul style="list-style-type: none"> <li>Staff Time- Full time water conservation manager and water conservation specialist assigned.</li> <li>Federal, State and local standards to guide changes</li> <li>Alignment with other City initiatives</li> <li>Finance and Billing Departments</li> </ul>
Online Water Efficiency Tools			
Technology and Innovation	<ul style="list-style-type: none"> <li>Advanced Metering Infrastructure (AMI) Optimization</li> </ul>		
Strategic Marketing Plan	<ul style="list-style-type: none"> <li>Organizational Collaboration</li> </ul>		
Collaboration	<ul style="list-style-type: none"> <li>Leak Detection</li> <li>Enforcement</li> <li>Income Qualified</li> </ul>		
Water Conservation Management			
	Performance Indicators	Status	Resources Allocation
	<ul style="list-style-type: none"> <li>Alignment with internal City partnerships for water savings.</li> <li>Meet quarterly with internal staff from different divisions/departments to maximize collaboration.</li> <li>Pilot projects- testing new ideas based on data</li> </ul>	Ongoing	<ul style="list-style-type: none"> <li>Staff Time- Full time person assigned.</li> <li>Federal and State standards to guide changes</li> <li>Align with other city initiatives</li> <li>Data monitoring</li> </ul>
	<ul style="list-style-type: none"> <li>Land Use                             <ul style="list-style-type: none"> <li>Leveraging the Water budget for all customer classes targeting outdoor water use.</li> <li>Promoting water wise landscapes and demonstration garden areas.</li> <li>Maintenance of the Landscape and Irrigation Criteria</li> <li>Survey landscapes to have a pulse on landscape health.</li> </ul> </li> </ul>	Ongoing and new	<ul style="list-style-type: none"> <li>Staff Time- Full time person assigned.</li> <li>Align with other city initiatives</li> <li>Community Engagement.</li> <li>Educational materials</li> <li>Marketing</li> </ul>
	<ul style="list-style-type: none"> <li>Water Conservation Development                             <ul style="list-style-type: none"> <li>Aligning performance goals with the annual scorecard and 7-year scorecard.</li> <li>Provide training and leadership opportunities for staff.</li> <li>Workload alignments with individual programs.</li> <li>Improve efficiency through cross-training, documenting operations and procedures, increase internal mobility and ensure collaboration.</li> <li>Targeting water efficiency programs</li> </ul> </li> </ul>	Ongoing and new	<ul style="list-style-type: none"> <li>Staff Time- Full time Water Conservation Manager</li> <li>Align with other city initiatives</li> <li>Training</li> <li>Memberships, sponsorships, etc.</li> </ul>
	<ul style="list-style-type: none"> <li>Financial Resources and Budget                             <ul style="list-style-type: none"> <li>Submit a water conservation budget annually.</li> <li>Track budget and return on investment for each program.</li> <li>Leverage resource through grants and other funding opportunities.</li> </ul> </li> </ul>	Ongoing	<ul style="list-style-type: none"> <li>Staff Time- Full time Water Conservation Manager and input from staff.</li> </ul>
	<ul style="list-style-type: none"> <li>Reporting                             <ul style="list-style-type: none"> <li>State reporting including HB1051</li> <li>Annual score cards to the Board</li> <li>Ensuring website information, reports and forms for the public are updated.</li> <li>Aligning data analysis internally on water consumption.</li> <li>Drought Emergency Plan reserve tracking</li> <li>Update Water Efficiency Plan</li> </ul> </li> </ul>	Ongoing and New	<ul style="list-style-type: none"> <li>Staff Time- Full time person assigned.</li> <li>Internal staff- Water Resources, IT, and Communications and Engagement</li> </ul>
	<ul style="list-style-type: none"> <li>Water Loss                             <ul style="list-style-type: none"> <li>AWWA M36 Water Loss Audit (M36) occurring annually.</li> <li>Internal collaboration on water loss</li> <li>Assets management with AMI meters.</li> </ul> </li> </ul>	Ongoing and New	<ul style="list-style-type: none"> <li>Staff Time- Full time person assigned.</li> <li>Alignment with AWWA audits</li> </ul>

*Score Cards from the WEP*

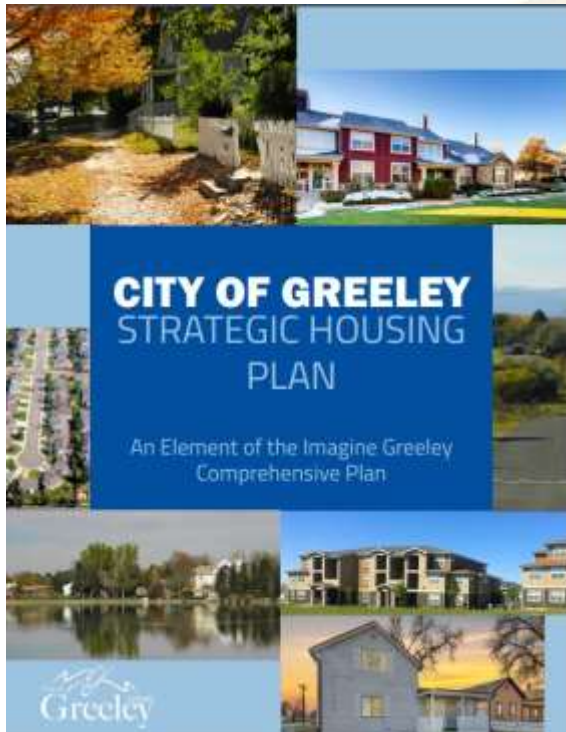


# Water Efficiency Plan Impact

## - Future water savings target for 2030

<u>Water Efficiency Goals by Focus Area</u>	<u>Acre-Feet</u>
<b>Community</b> - Outreach & Education	386
<b>Prosperity</b> - AMI Metering and Design Criteria	1,363
<b>Water Conservation Management</b>	285
<b>Total</b>	<b>2,034</b>

Enough water for 6,000 families moving to Greeley (at 3 housing units per A.F.)



# WEP Public Outreach



- ✓ City Board and Commissions
  - ✓ Planning Commission and Park & Recreation Advisory Board Briefings
- ✓ Communications and Social Media- Facebook, Twitter, & LinkedIn
- ✓ Community Open Houses- 8/18/22 & 9/15/22
- ✓ Media- Tribune (6/10/22 and 8/18/22) and Water & Sewer monthly newsletter
- ✓ Targeted local businesses & community organization stakeholders
- ✓ Website and online form <https://greeleygov.com/conseve>

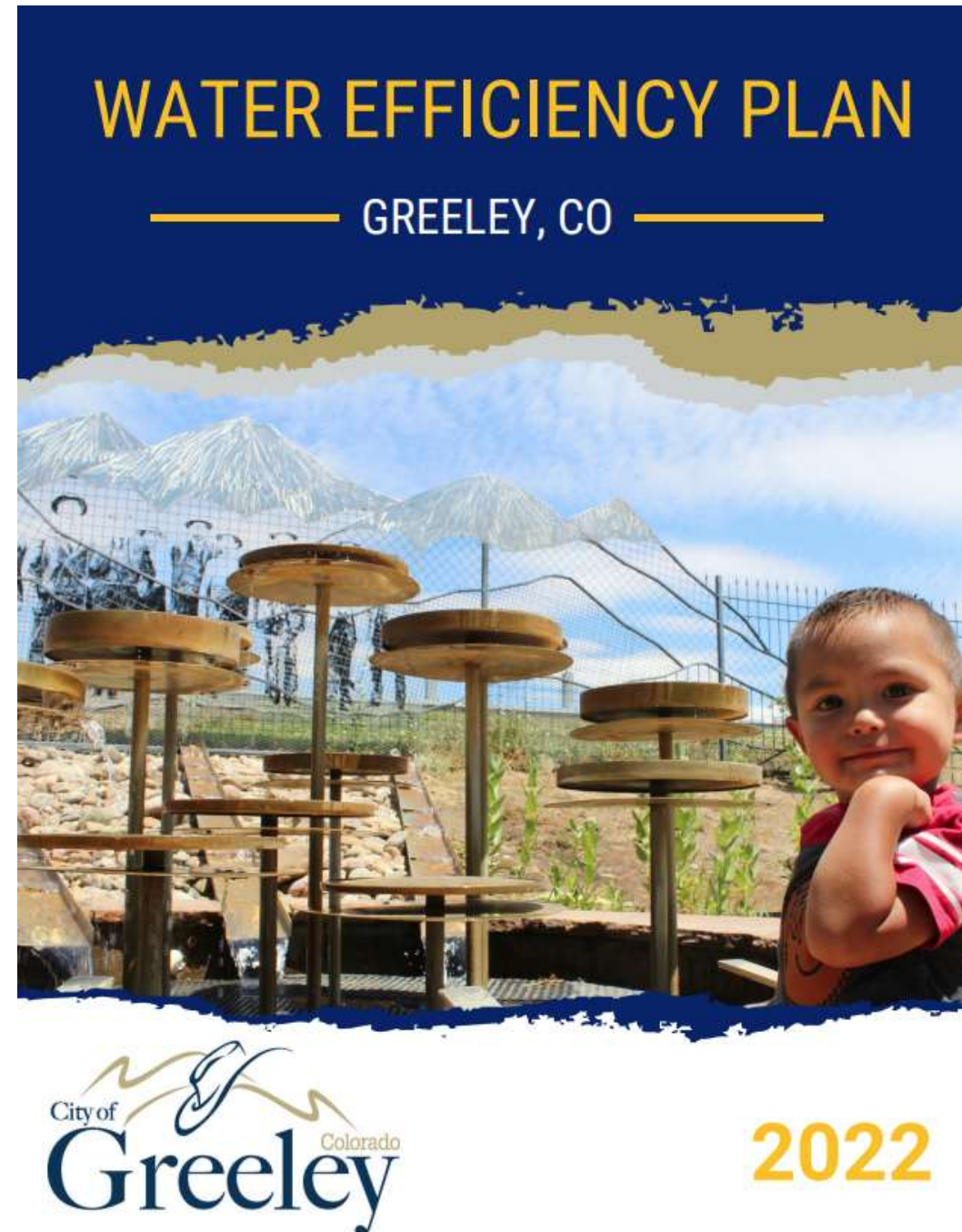




# Recommendation

**Recommend City Council approve the Resolution to adopt the 2022 Water Efficiency Plan (WEP)**

Note that following public and key stakeholder engagement, consultation with the Colorado Water Conservation Board and review by Planning Commission, the Water and Sewer Board approved and recommended the approval of the 2022 Water Efficiency Plan to City Council at their October 10, 2022 meeting of the Board



# Questions

