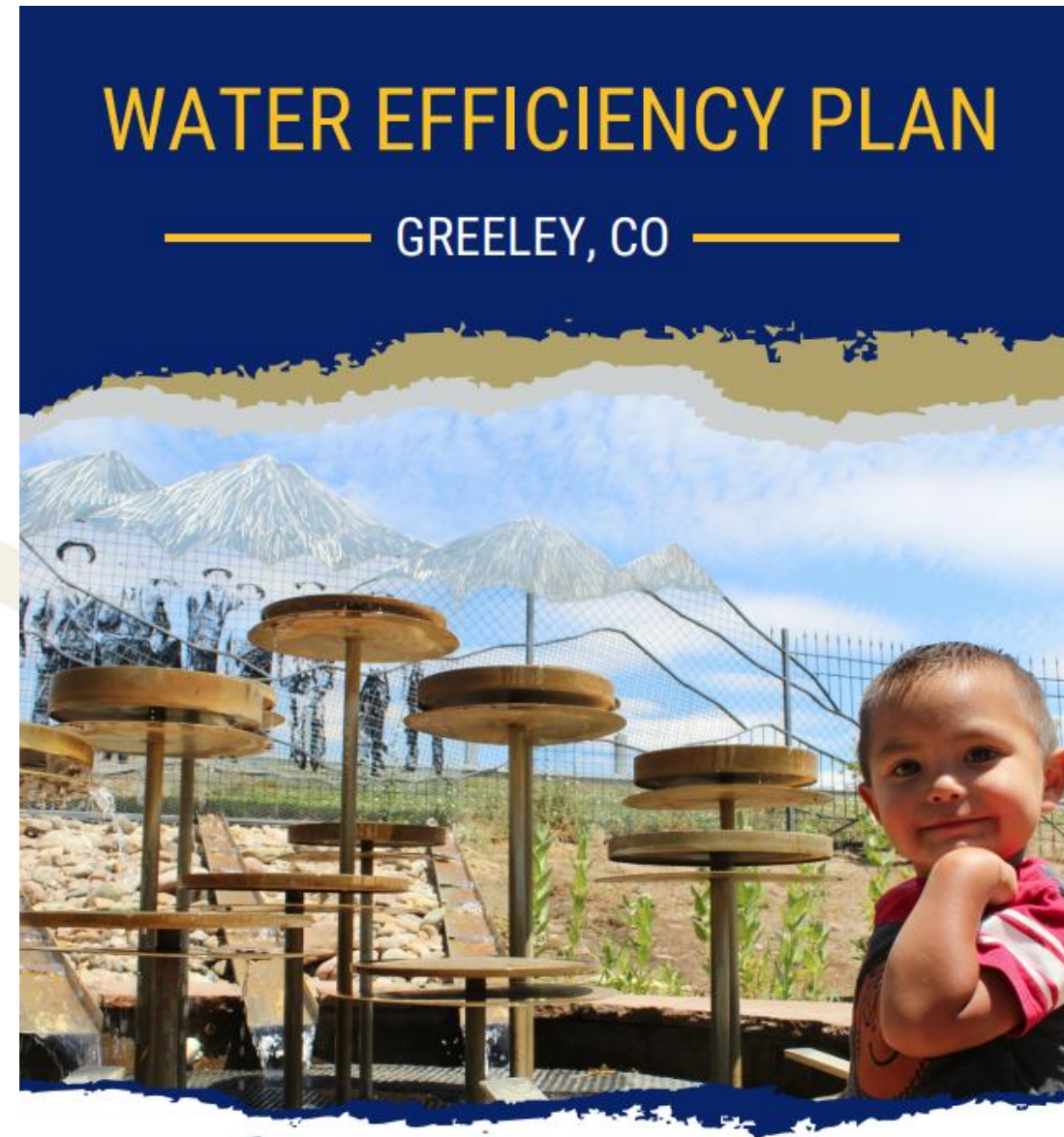


2022 Water Efficiency Plan Update

Planning Commission
December 13, 2022

City of Greeley Water & Sewer Utilities Department
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

- **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

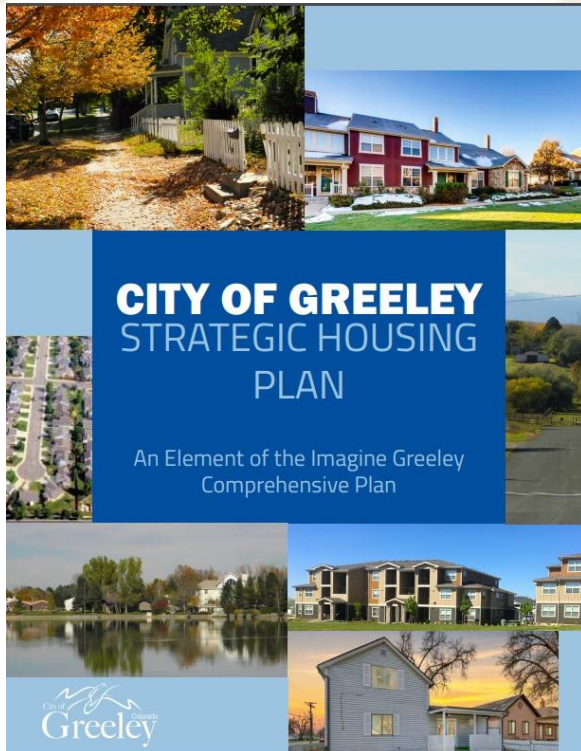
Community	Performance Indicators	Status	Resources Allocation
Education- Lecture and Presentations	<ul style="list-style-type: none"> Educational awareness of methods for water conservation. Community outreach and engagement for classrooms, civic clubs, and other groups. Work to enhance cohesiveness of presentations and water related topics. 	Ongoing	<ul style="list-style-type: none"> Staff Time- Full time person assigned to Water Conservation Administration Guest speakers Educational materials Marketing
Education-Teacher Training	<ul style="list-style-type: none"> Provide teachers credits for water and conservation issues for local teachers Correlate material within lesson plans towards water resources 	Ongoing	<ul style="list-style-type: none"> Staff Time- Full time person assigned to Water Conservation Administration and Water Conservation Specialist Educational materials (models, lesson plans, etc.)
Education- Tours	<ul style="list-style-type: none"> Provide the public with facilities including the 		
Online Water Efficiency Tools	<ul style="list-style-type: none"> Maintenance and up Contract agreements Ensure tools are custom Information. 		
Technology and Innovation	<ul style="list-style-type: none"> Survey to evaluate pro effective communicatio Use data-based inform outreach strategy. Explore methods to en and embrace diversity. 		
Strategic Marketing Plan	<ul style="list-style-type: none"> Create quarterly plans conservation program Quarterly report on pr including budget alloc Alignment of other city with Water Conservati 		
Collaboration	<ul style="list-style-type: none"> Outreach to communit and landscape industr methodology for water Tap into the Water-En Provide guidance for p Reduce barriers and pr 		
Prosperity			
Performance Indicators		Status	Resources Allocation
Rebates and Incentives	<ul style="list-style-type: none"> Annual review of rebate program including alignment with state and federal standards, industry changes and data-driven decisions on rebate performances. Annual review of return on investment and water savings. Alignment with the Water Department & City initiatives. 	Ongoing	<ul style="list-style-type: none"> Staff Time- Full time water conservation manager and water conservation specialist assigned. Federal, State and local standards to guide changes Alignment with other City initiatives Finance and Billing Departments
Advanced Metering Infrastructure (AMI) Optimization	<ul style="list-style-type: none"> Expansion of WaterSmart participation Utilization of spatial data paired with other dataset to detect patterns in water budgets, rebate/incentives utilization, in 	Ongoing and New	<ul style="list-style-type: none"> Staff Time- Full time water conservation assigned. Internal Departments- IT, Water Resources, Meter Shop, Engineering, GIS, Water Conservation, Billing
Water Conservation Management			
Performance Indicators		Status	Resources Allocation
Organizational Collaboration	<ul style="list-style-type: none"> Alignment with internal City partnerships for water savings. Meet quarterly with internal staff from different divisions/departments to maximize collaboration. Pilot projects- testing new ideas based on data 	Ongoing	<ul style="list-style-type: none"> Staff Time- Full time person assigned. Federal and State standards to guide changes Align with other city initiatives Data monitoring
Land Use	<ul style="list-style-type: none"> Leveraging the Water budget for all customer classes targeting outdoor water use. Promoting water wise landscapes and demonstration garden areas. Maintenance of the Landscape and Irrigation Criteria Survey landscapes to have a pulse on landscape health. 	Ongoing and new	<ul style="list-style-type: none"> Staff Time- Full time person assigned. Align with other city initiatives Community Engagement. Educational materials Marketing
Water Conservation Development	<ul style="list-style-type: none"> Aligning performance goals with the annual scorecard and 7-year scorecard. Provide training and leadership opportunities for staff. Workload alignments with individual programs. Improve efficiency through cross-training, documenting operations and procedures, increase internal mobility and ensure collaboration. Targeting water efficiency programs 	Ongoing and new	<ul style="list-style-type: none"> Staff Time- Full time Water Conservation Manager Align with other city initiatives Training Memberships, sponsorships, etc.
Financial Resources and Budget	<ul style="list-style-type: none"> Submit a water conservation budget annually. Track budget and return on investment for each program. Leverage resource through grants and other funding opportunities. 	Ongoing	<ul style="list-style-type: none"> Staff Time- Full time Water Conservation Manager and input form staff.
Reporting	<ul style="list-style-type: none"> State reporting including HB1051 Annual score cards to the Board Ensuring website information, reports and forms for the public are updated. Aligning data analysis internally on water consumption. Drought Emergency Plan reserve tracking Update Water Efficiency Plan 	Ongoing and New	<ul style="list-style-type: none"> Staff Time- Full time person assigned. Internal staff- Water Resources, IT, and Communications and Engagement
Water Loss	<ul style="list-style-type: none"> AWWA M36 Water Loss Audit (M36) occurring annually. Internal collaboration on water loss Assets management with AMI meters. 	Ongoing and New	<ul style="list-style-type: none"> Staff Time- Full time person assigned. Alignment with AWWA audits



Water Efficiency Plan Impact

- Future water savings target for 2030

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



WEP Public Outreach



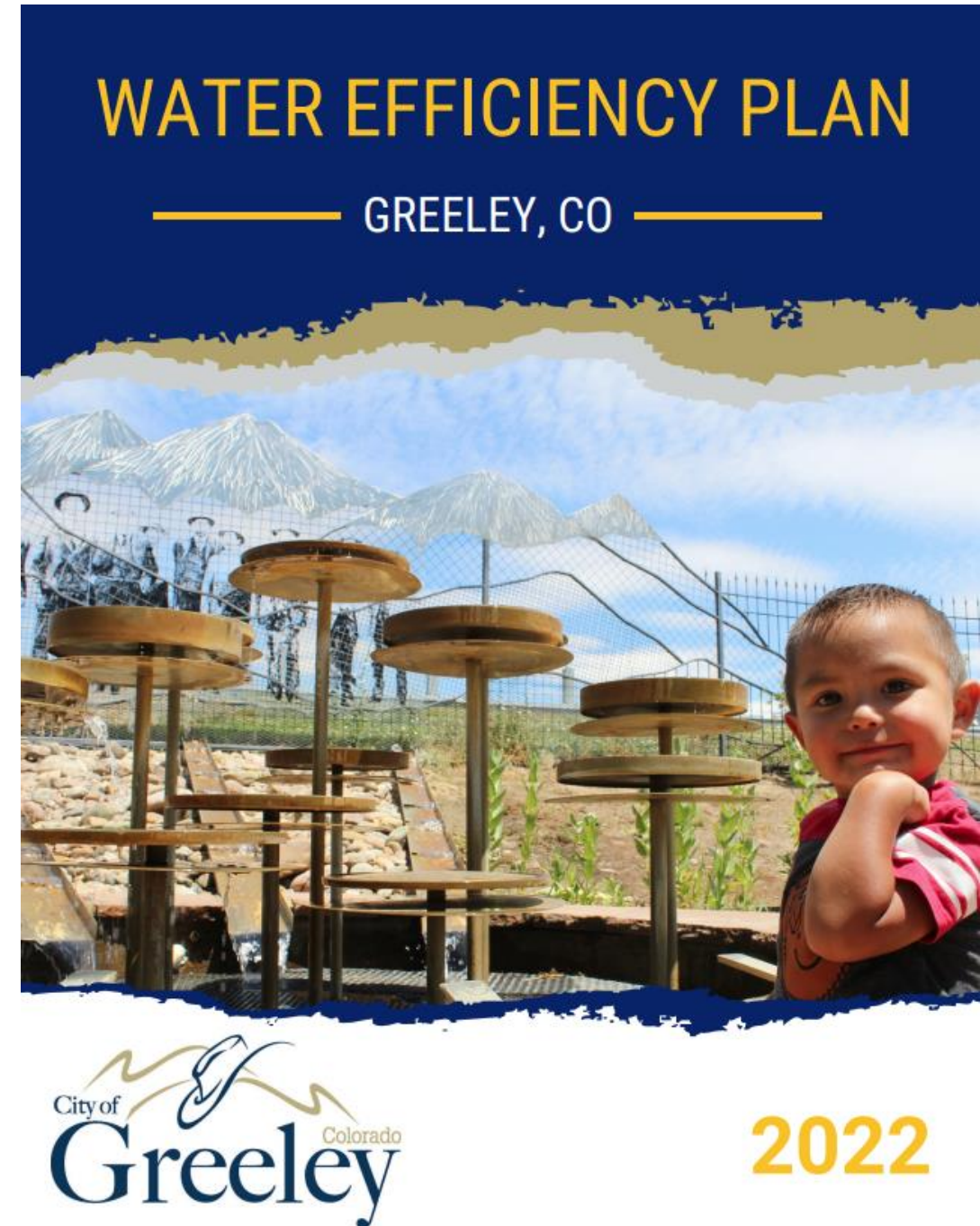
- ✓ City Board and Commissions
 - ✓ Planning Commission and Park & Recreation Advisory Board Briefings
- ✓ Communications and Social Media- Facebook, Twitter, & LinkedIn
- ✓ Community Open Houses- 8/18/22 & 9/15/22
- ✓ Media- Tribune (6/10/22 and 8/18/22) and Water & Sewer monthly newsletter
- ✓ Targeted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



Recommendation

Following public engagement, key stakeholder engagement and a review with Planning Commission, the Water and Sewer Board approved and recommended the Water Efficiency Plan to Council at their October 10, 2022 Board meeting and City Council approval on consent at the December 6, 2022 meeting; and therefore

Staff recommends approval to adopt the 2022 Water Efficiency Plan (WEP) by reference to the City's 2018 Comprehensive Plan



Questions

