

Integrated Water Resources Plan (IWRP)

City of Greeley
Water and Sewer Department



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Agenda



- Introduction
- IWRP project background and objectives
- Methodology and Analysis within the IWRP
- IWRP Outcomes and strategic guidance

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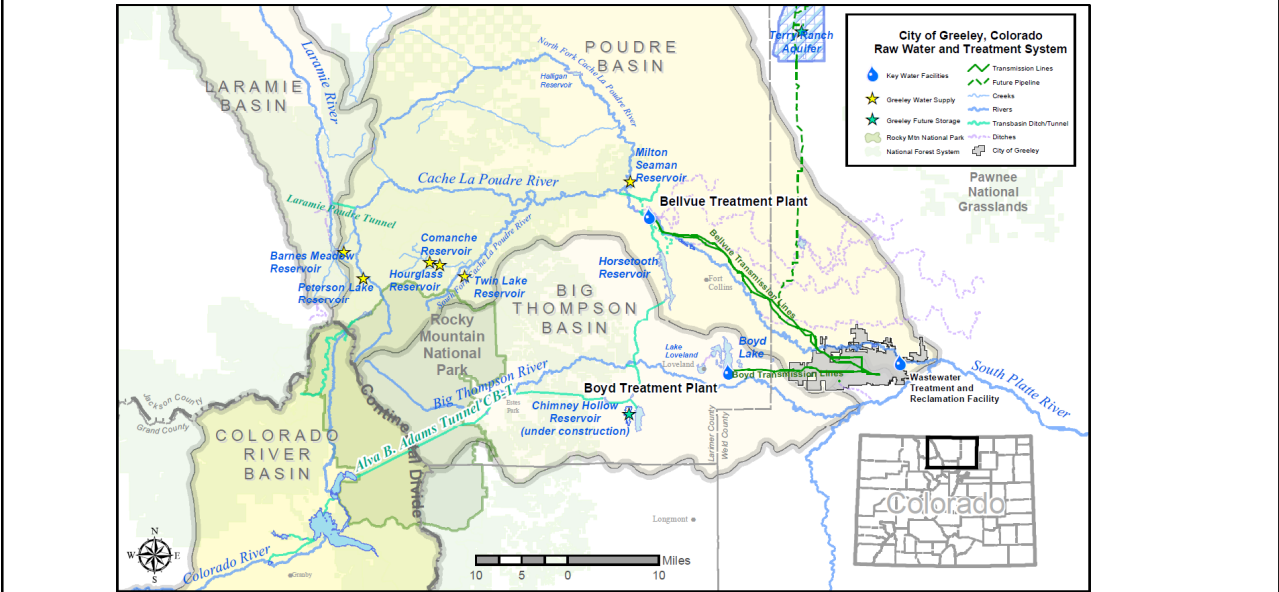
IWRP Project Team

Greeley Team Project Manager	
Kelen Dowdy	
Greeley Technical Team	Greeley Management Team
<p>Dena Egenhoff Water Conservation Manager</p> <p>Erik Dial Deputy Director of Utility Finance and Customer Service</p> <p>Leah Hubbard Water Resource Operations Manager</p> <p>Daniel Biwer Environmental & Water Resource Attorney</p>	<p>Sean Chambers Water & Sewer Director</p> <p>Ty Bereskie Deputy Director of Water Resources</p> <p>Adam Prior Chief Engineer</p>

Consultant Team Project Manager
Neil Stewart (Stantec)
Consultant Team
<p>Mary Presecan (LRE Water) <i>South Platte River Basin Expert</i></p> <p>Cortney Brand (LRE Water) <i>Terry Ranch Groundwater Expert</i></p> <p>Michelle Johnson (Martin & Wood) <i>Greeley Water Rights Expert</i></p> <p>Adam Jokerst (West Water Research) <i>Greeley Water Resources Issues</i></p> <p>Paul Weiss (Williams & Weiss) <i>Greeley Water Modeling Expert</i></p>

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Greeley's Current Water Supply System



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What are Greeley's IWRP objectives?



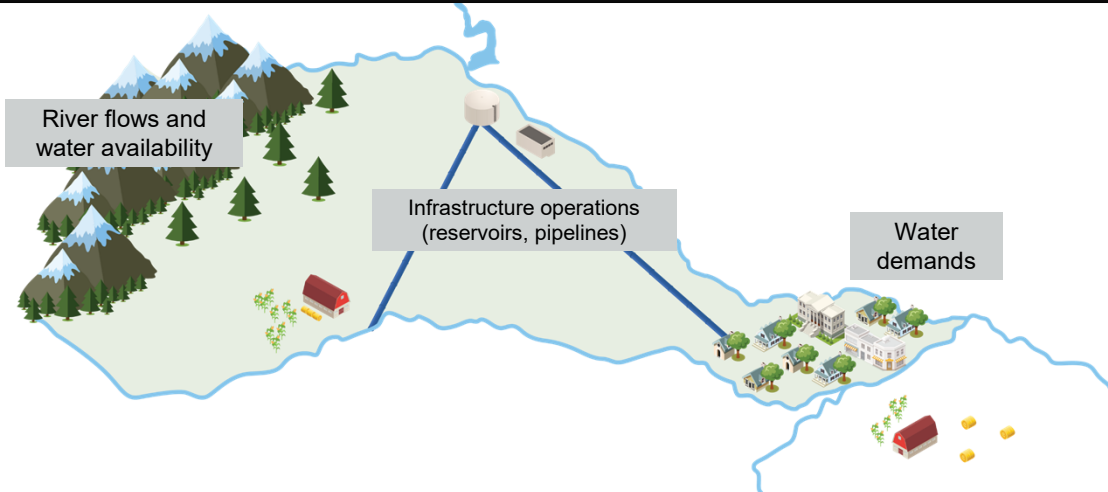
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Developing Greeley's IWRP

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What is an IWRP?

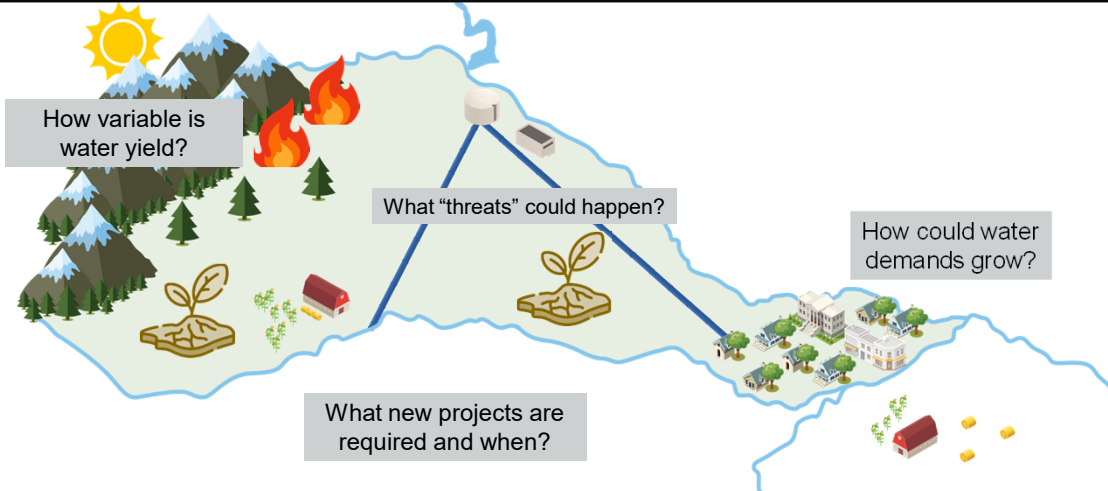
1) Holistic, long-term evaluation of Greeley's water supply system that integrates:



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What is an IWRP?

2) Evaluates how changes to future conditions impact the water supply system



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What futures did the IWRP plan for?





















- “Planning Scenarios” were defined to vary future water supply conditions

Planning Scenario Name	Climate Warming	Colorado River Basin Drought Impacts	Water Rights Administration	Demand Growth
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What futures did the IWRP plan for?

- “Planning Scenarios” were defined to vary future water supply conditions

Planning Scenario Name	Climate Warming	Colorado River Basin Drought Impacts	Water Rights Administration	Demand Growth
Unbearable		 High		
Stressed		 Moderate		
Continued Trends		 Moderate		
Optimistic		 Low		
No Climate Change		 Low		

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IWRP's Strategic Plan for a Sustainable Water Supply

Resilient Water supply system strategies
System monitoring and adaptive management

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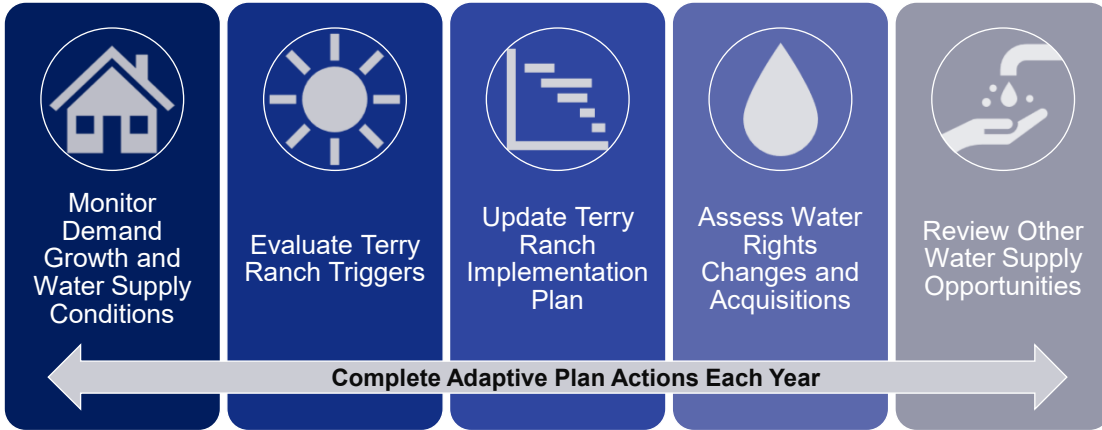
Water supply system strategy

Build Robust Water Portfolio	<ul style="list-style-type: none">• Change agricultural water rights• Continue strategic acquisitions of surface water• Continue investing in storage projects
Responsibly Develop Terry Ranch	<ul style="list-style-type: none">• Develop priority Terry Ranch infrastructure• Study IWRP-recommended projects
Ensure Sustainable and Affordable Water	<ul style="list-style-type: none">• Monitor demand growth and supply conditions• Implement Adaptive Planning

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Monitoring and Adaptive Management

➤ The IWRP Adaptive Plan defines actions for Greeley to take each year



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'23 IWRP Outcome Summary



- IWRP guides staff and policy makers to ensure sustainable and affordable water supplies for the future
- Greeley's current water supply system is robust under near-term future conditions
- The Terry Ranch Project provides drought resilient long-term water supply to Greeley's system
- Need for continued investments in infrastructure, storage and the strategic acquisition of water resources
- An annual review of trends will provide for the adaptive management of water resources, storage and infrastructure

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Thank you



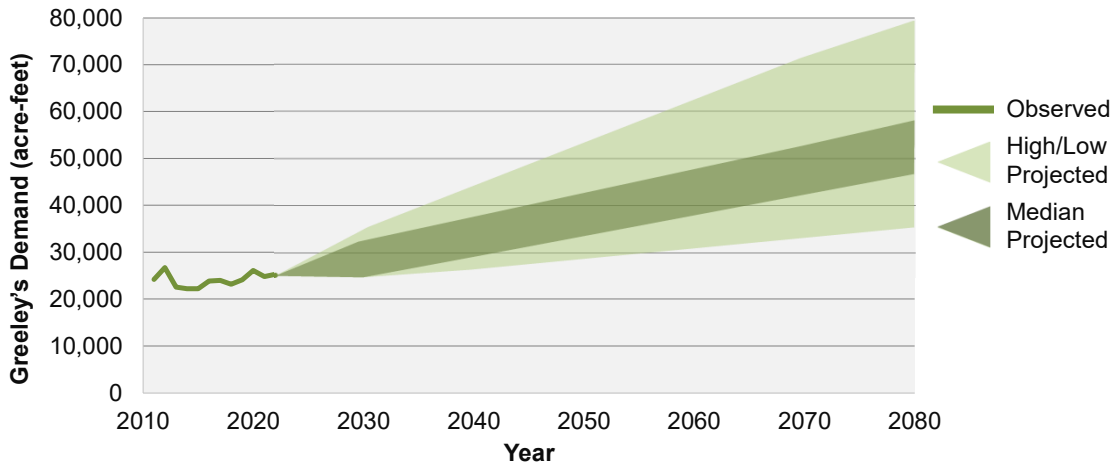
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Parking Lot Slides

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What could Greeley's future water demands be?

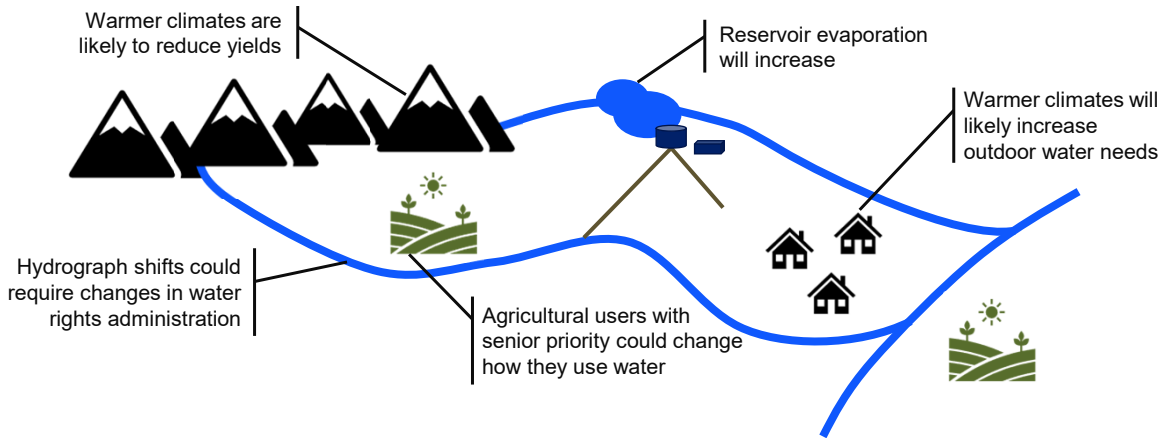
- Unclear when demand growth will resume
- Future demands highly variable



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How could climate change impact Greeley's water supplies?

The IWRP reflects the following climate change impacts to Greeley:



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