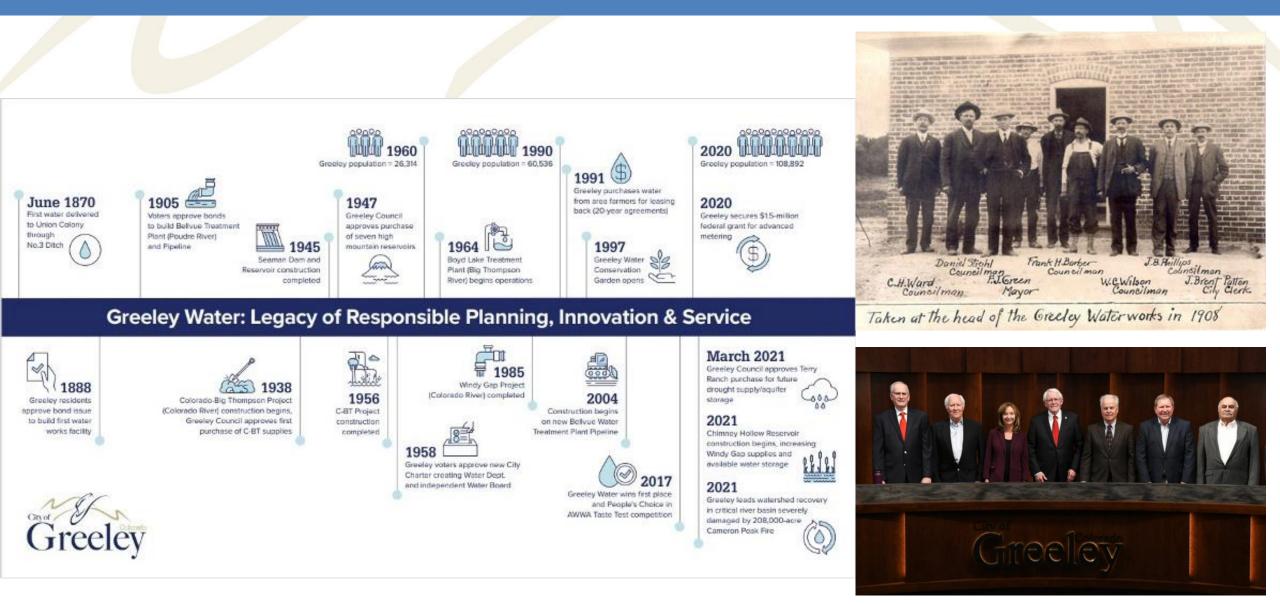
Greeley Water's Terry Ranch Conjunctive Use Project

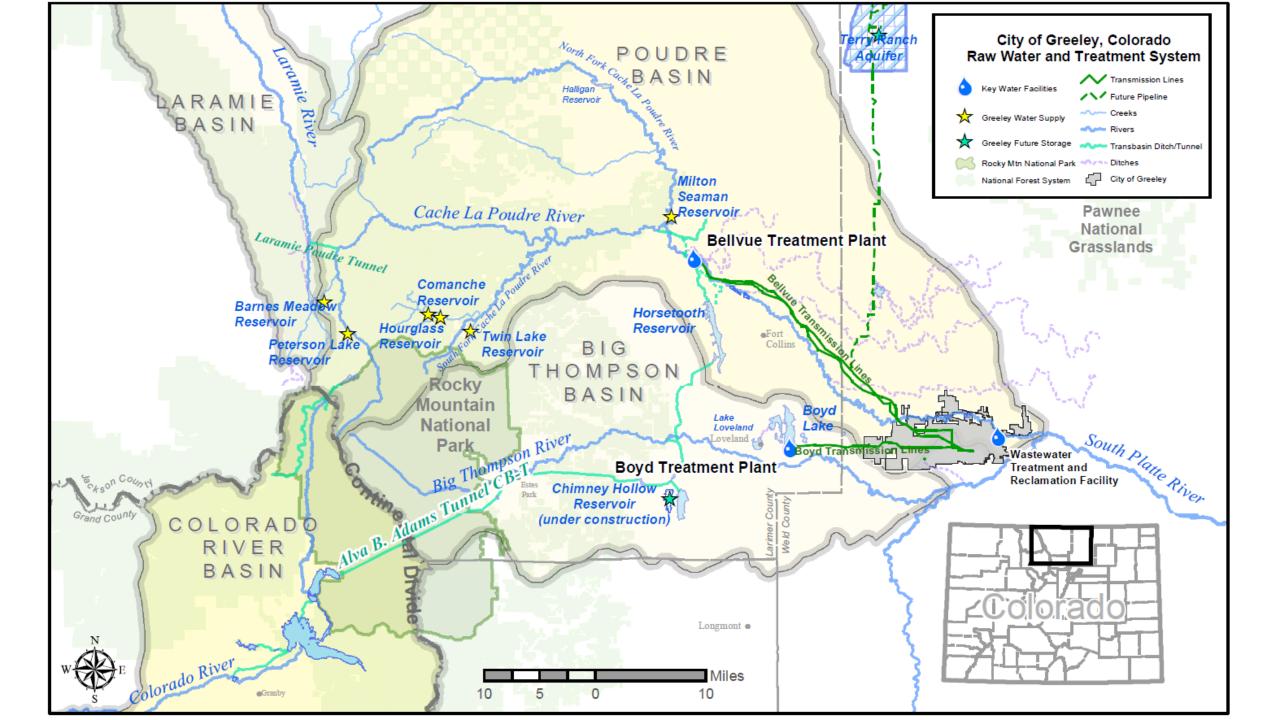
CSU Subsurface Water Storage Symposium

February 23, 2024

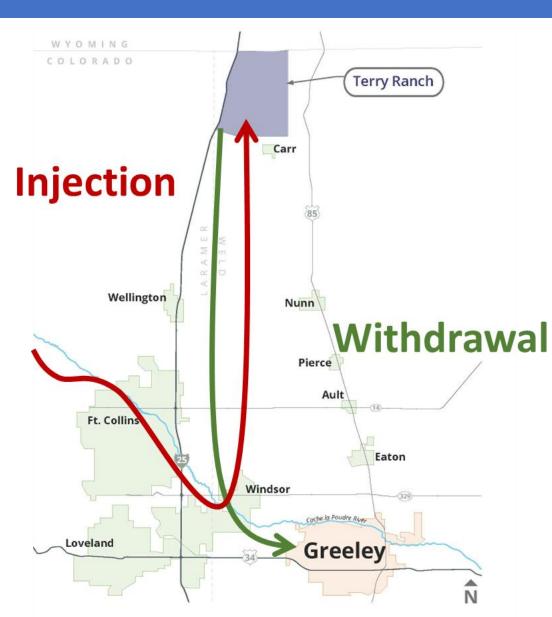


Legacy of Resource Planning





Terry Ranch



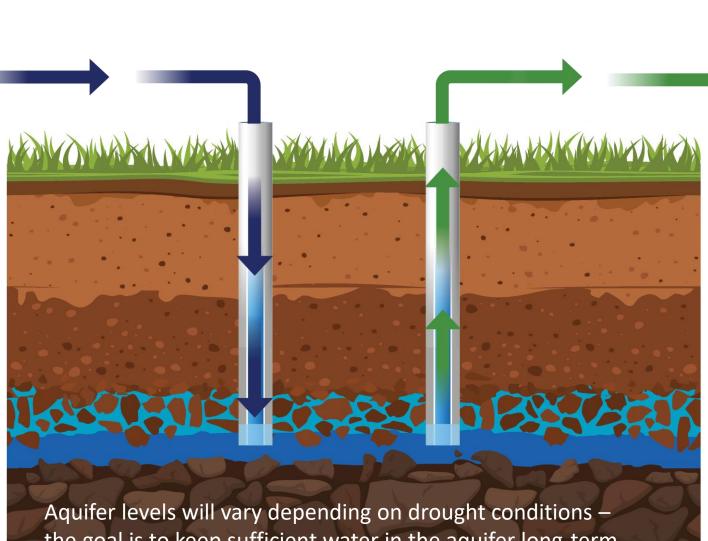
Terry Ranch is a non-tributary aquifer decreed with 1,200,000 acre-feet of native water



How can Greeley use the Terry Ranch Project?



When available, treated surface water is injected into the aquifer



During droughts, water is extracted from the aquifer, treated, and delivered to Greeley

the goal is to keep sufficient water in the aquifer long-term

Water Quality Inspection

- Extensive evaluation and analysis:
 - Over 7,000 sampling data points
 - 575 compounds from 7 municipal grade wells
- Overall water quality is excellent
- Natural Uranium is present
 - Uranium can be removed cost effectively

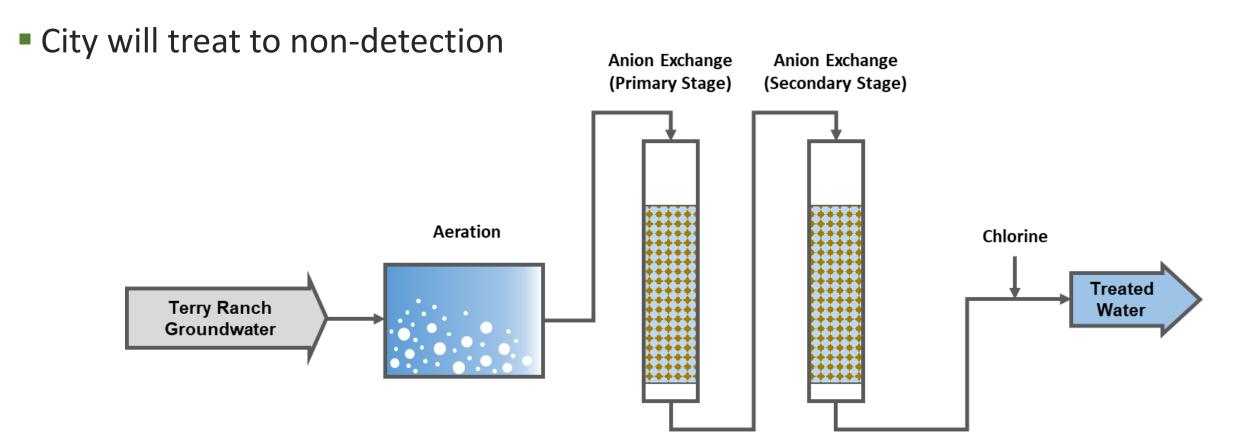


42% Bellvue 58% Terry Ranch

30% Bellvue 70% Terry Ranch

Uranium Removal

- Ion Exchange Treatment common and proven
- **30-day pilot test** at Terry Ranch confirmed treatment results



Planning for Terry Ranch-Integrated Water Resources Plan

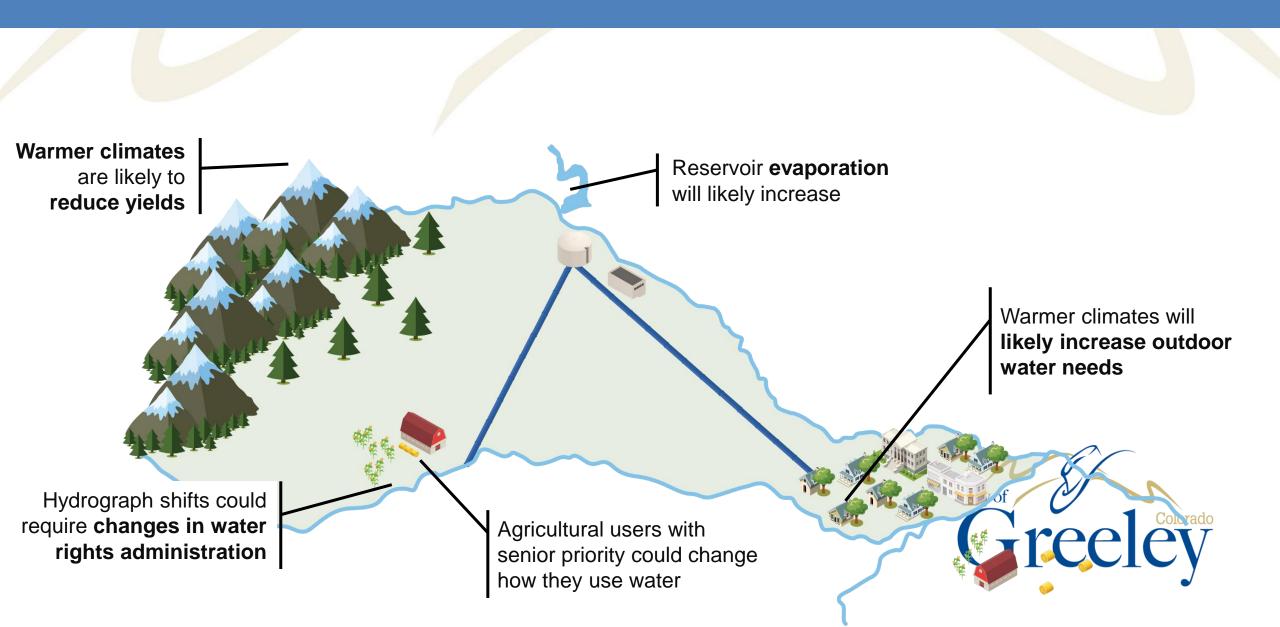
Potential Futures of Greeley's Water Supply System

Accounts for the uncertain future conditions

Uncertain Future

Present •

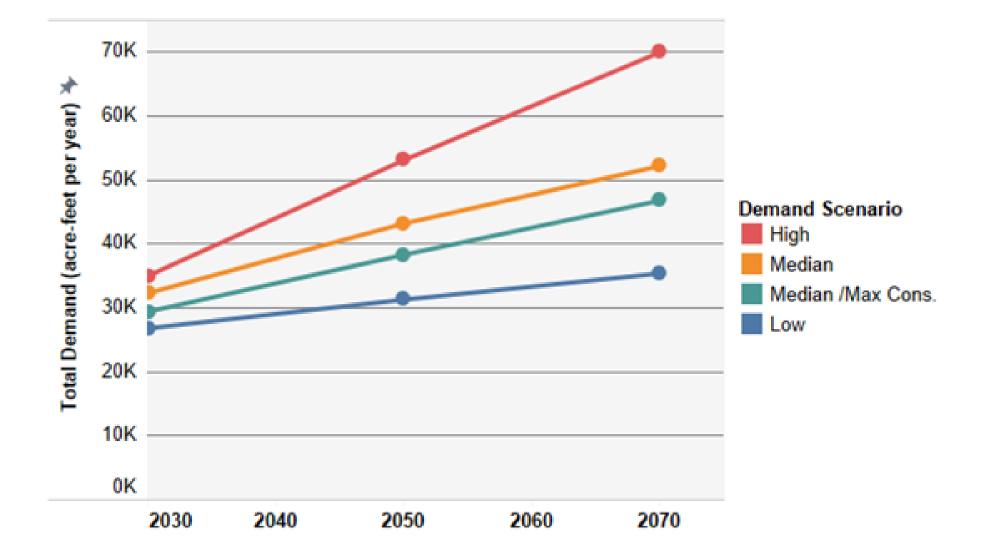
How climate change impact water supplies



Integrated Water Resource Plan: Planning Scenarios

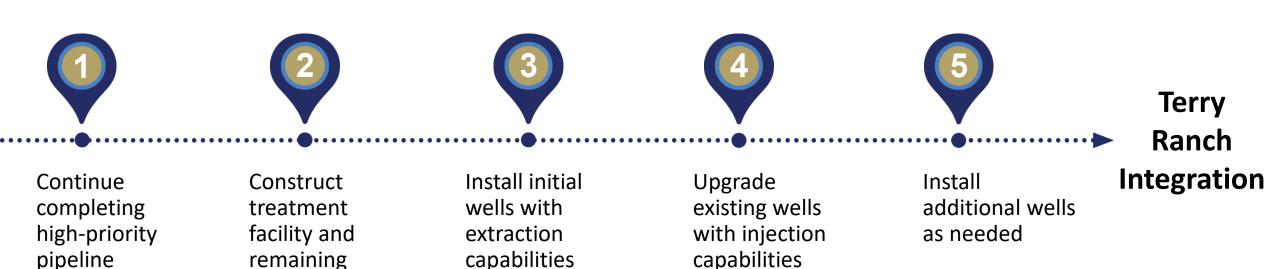
Climate Warning	*	* *	**	***	
Colorado River Basin Impacts					
Water Rights Administration					
Demand Growth					
Planning Scenario	No Climate Change	Optimistic	Continuing Trends	Stressed	Unbearable

Water Demand Projections

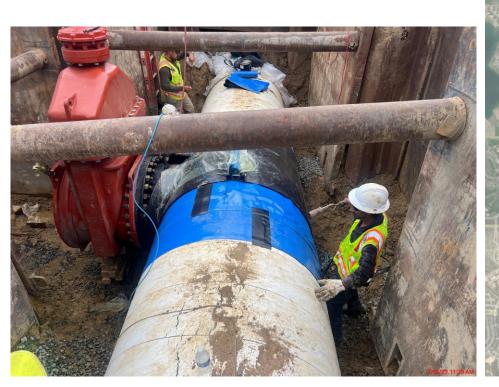


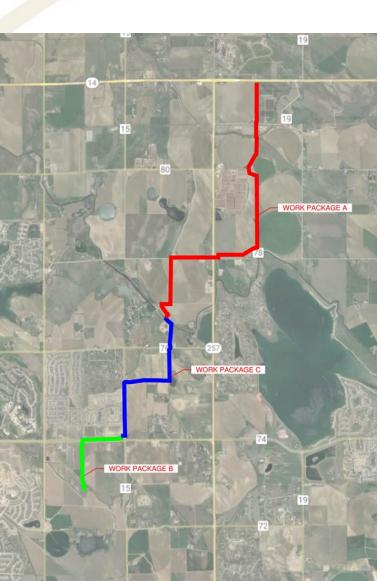
What will Terry Ranch implementation look like?

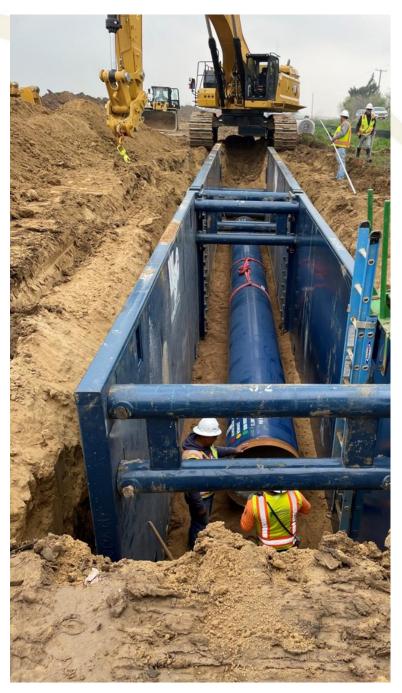
pipeline



Construction Segment No. 1 and Bellvue 60" Potable Tie-in Vault

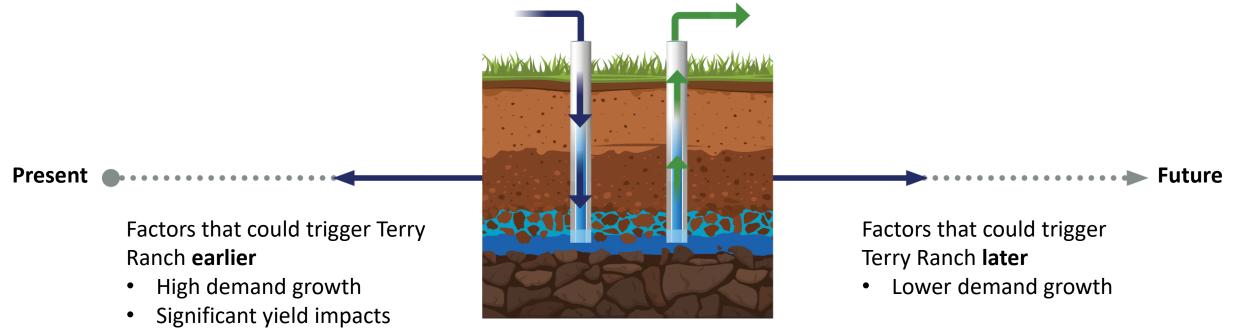






What are the triggers for needing Terry Ranch?

- Terry Ranch is eventually required in all future conditions as a drought supply
- Triggering Terry Ranch will be influenced by demand growth and yield impacts Terry Ranch Needed for Drought Supply



What is water supply system strategy?

Build Robust Water Portfolio

- Change agricultural water rights
- Continue strategic acquisitions
- Continue developing storage projects

Responsibly Develop Terry Ranch

- Complete priority Terry Ranch infrastructure
- Balance phasing Terry Ranch with other needs
- Study IWRP-recommended projects

Ensure Sustainable and Affordable Water

- Continue implementing demand management
- Monitor demand growth and supply conditions
- Implement Adaptive Planning

What is Greeley's near-term Terry Ranch plan?

• Balance Terry Ranch investment with other needs

F	Present	2025	2030			
Terry Ranch Implementation	High-Priori	ity Pipeline Installation				
Water Supply	Water Righ	Water Rights Acquisition and Changing Raw Water Conveyance Optimization				
Planning		Evaluate IWRP Recommendations Adaptive Plan Updates	IWRP Update			
Conservation	Implement	Conservation Efforts				

How will Greeley move forward?

Adaptive Plan defines actions for Greeley to take each year





Monitor Demand Growth and Water Supply Conditions

Evaluate Terry Ranch Triggers



Update Terry Ranch Implementation Plan



Assess Water Rights Changes and Acquisitions



Review Other Water Supply Opportunities

Complete Adaptive Plan Actions Each Year

