

Triview's Renewable Water Project
October 2, 2023
Monument Town Council



Presenters

James McGrady District Manager

Chris Cummins District Water Attorney

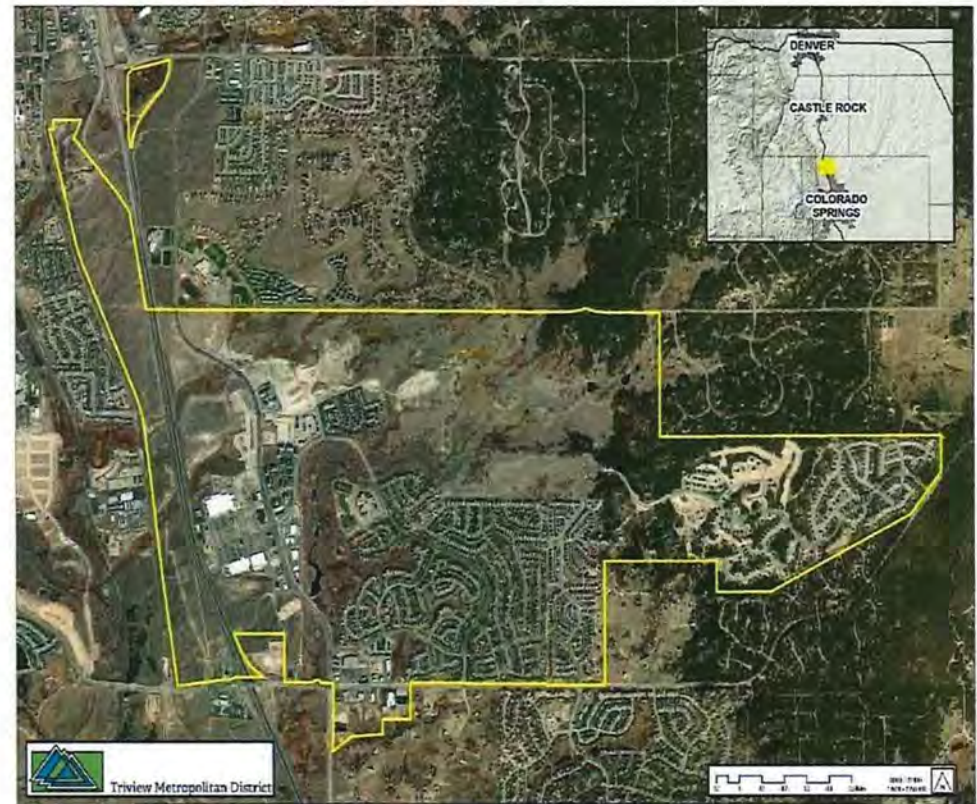
Overview of Presentation

- What is Triview
- Renewable Water Project and Purpose
- Contracts, Permits, Water Rights
- Future Operations
- Sustainability
- Stonewall Springs Reservoir Complex (South and Central Reservoirs.)
- Northern Delivery System Construction update completion date
- Monument Opportunities to Participate and Costs



What is Triview Metropolitan District?

- Title 32 metropolitan district, public entity with elected Board
- Owns and maintains facilities that provide water, wastewater, and stormwater plus Road maintenance and parks and Open Space services to a 2,590-acre service area within the Town of Monument, Colorado.
- Triview is 63.6% of the Town of Monument
- Currently: 2,700 SFE (approximately 2,155 SF homes and 80 commercial + 53 irrigation customers)
- At full build-out: approximately 3,226 single-family homes
- Triview's service area is located entirely within the Ark. River Basin

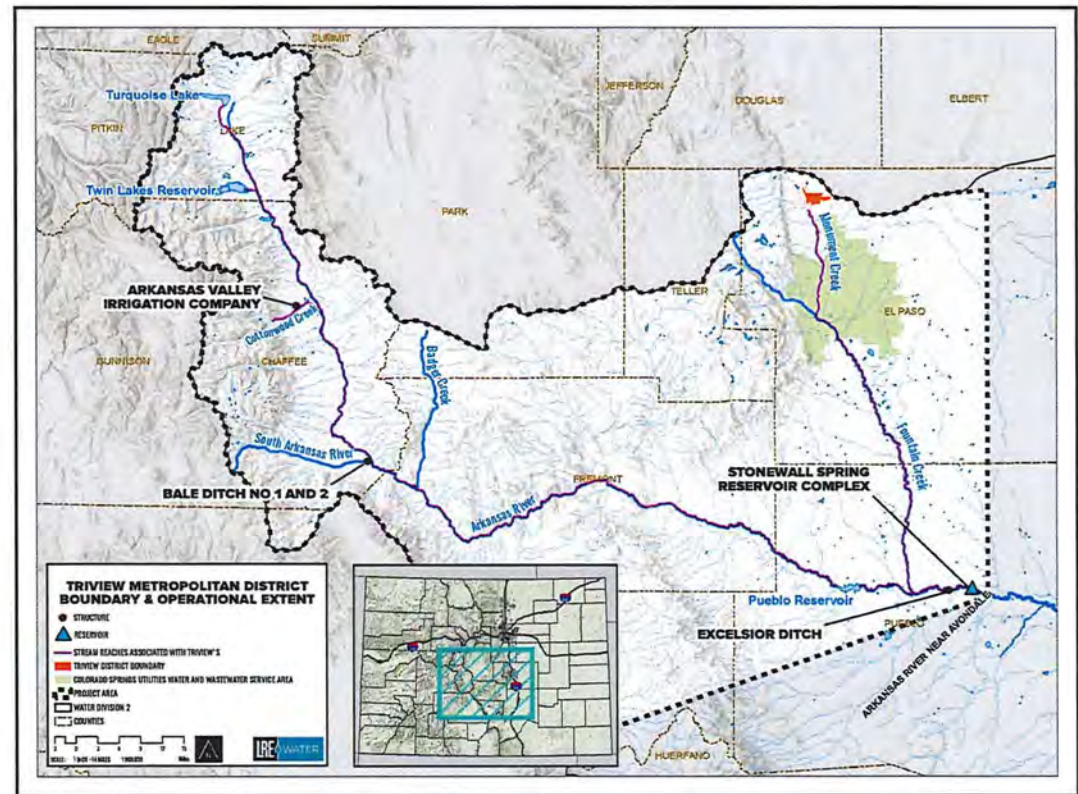


Triview Metropolitan District Boundaries Map (Triview, 2018)



Project Area and Purpose: Sustainability

- Current water supply from nonrenewable deep aquifers in the Denver Basin Formations. 5 Arapahoe Aquifer Wells (300 gpm each) and 4 Denver Aquifer Wells (90 gpm each). Total Capacity 1,860 gpm (2.7 MGD)
- Triview has acquired renewable water sources for long-term sustainability
- Additional storage is needed to manage the variability and to recapture the reusable return flows



Description of Contracts and Permits Obtained

- **US Bureau of Reclamation “Excess Capacity Contract and Use of North Outlet Works”**
 - Allows storage up to 999 AF in Pueblo Reservoir “if and when space” available for municipal purposes and Deliveries through North Outlet Works . Executed by USBR Dec. 29, 2021
- **1041 Permits Obtained**
 - Pueblo County 1041 Permit August 2022 – BOCC Res. No. P&D 22-030
 - Pueblo County 1041 permit July 2023 – BOCC Res. No. P&D 23-03
 - El Paso County 1041 permit March 30, 2023

Colorado Springs Utilities/ City of Colorado Springs City Council

- April 12, 2023 – CTD Contract - Direct flow or exchange delivered to Colorado Springs Utilities (CS-U) Southern Delivery system (SDS) through the North Outlet Works (NOW)



Purchase Water Rights and Average Annual Yield

- **Water Rights:**

- Senior irrigation rights above Pueblo Reservoir (AVIC Ditch Bale Ditch)
- Senior irrigation rights below Pueblo Reservoir (Excelsior Ditch)
- Senior irrigation water rights on Fountain Creek (FMIC)
- **Total Average Annual Yield 1,934 AF**
- Reusable effluent accruing to Fountain Creek derived from all of the above sources as well as Denver Basin groundwater supplies.
- **Total Average Annual Yield Approximately 1,000 AF**

- **Storage**

- Stonewall Springs Reservoir Complex (SSRC) 1850 AF
- Big Johnson Reservoir (FMIC) 930 AF
- Pueblo Reservoir Excess Capacity Storage Account 999AF
- **Total Storage 3,779 AF**

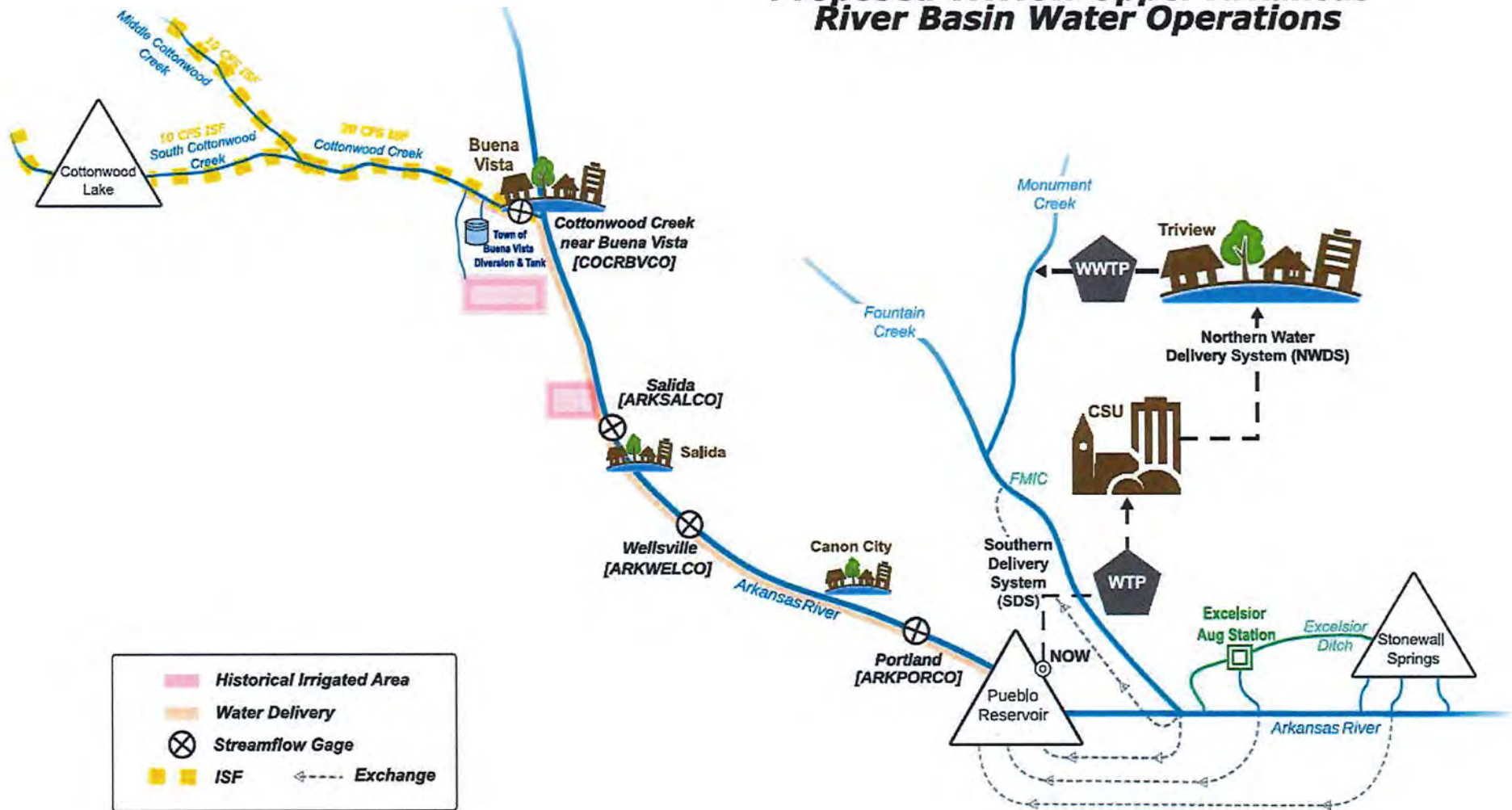


Other Water Sources

- **Denver Basin Wells**
 - Approximate Yield 2,000 Acre Feet per Year
- **Leased Water**
 - 25-year contract up to 450 AF per year



Proposed Triview Upper Arkansas River Basin Water Operations



Water Sustainability

- Entire purpose of the Project is to become more sustainable.
 - Develop a Conjunctive use Project that Virtually eliminates Triview's dependency on nonrenewable groundwater.
 - Facilitate conversion to 90% renewable surface water 10% Denver Basin Ground water.
 - Triview's transition will result in increased sustainability of Denver Basin groundwater supplies in El Paso County, Colorado.
 - Create additional water storage opportunities for public and private water providers within Pueblo County. EG. South and Central Reservoir.
- Triview has implemented various water sustainability measures in its day-to-day operations and will continue to do so.
- Stonewall Springs Reservoir Complex Brings stability to Fountain Creek and Arkansas Water users by capturing peaks, addresses lack of exchange potential to Pueblo Reservoir, captures return flows.



Moving to Renewable Water Sources

Purposes and needs for the storage in the SSRC and Pueblo Reservoir:

- Provides water storage and conveyance capacity to increase water management flexibility within Triview's water supply portfolio and service area
- Reduces Triview's dependency on nonrenewable groundwater
- Facilitates conversion to renewable surface water
- Maximizes the use of existing infrastructure, including SDS, to serve Triview's municipal and industrial water supply demands where feasible.

Triview anticipates that it will be substantially built out by 2030 with a total demand of Approximately 2,200-2,400 Acre Feet per year.

Current Triview demand Approximately 1,000 Acre Feet per Year

Stonewall Springs South Reservoir



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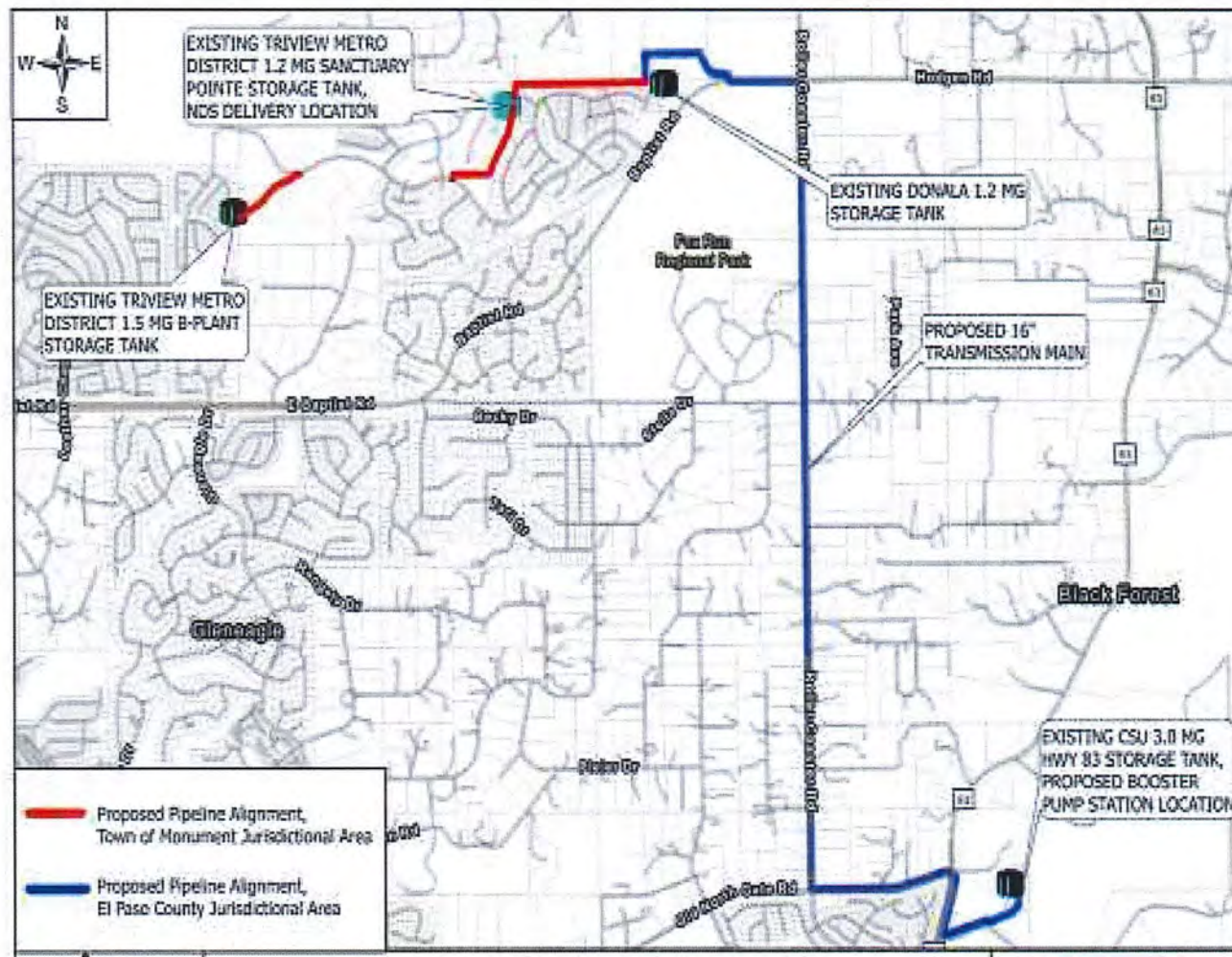
Northern Delivery System



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PROJECT ROUTING - FINAL ROUTE



Northern Delivery System Construction Status

- Pipeline Construction is complete within the Triview Metropolitan District
- Tie in into Triview's Existing System is Complete
- Work in Baptist Road is complete
- Work Continues on Roller Coaster. Should be complete first week of October
- Work Complete from Pump Station to Highway 83 Complete
- Work on Old Northgate Road Complete
- Power for Pump station to be installed October 2, 2023
- Revegetate Disturbed Areas September through October 15, 2023
- Begin Mill and Final Overlay Of Roller Coaster and Northgate Road Mid October
- Pump Station Construction August 2023 – July 2024.

Opportunity for Monument to Participate

- Town of Monument currently 100% groundwater
- Production rates from Monument's 13 Denver Basin wells are no more than 1250 gpm
- Max day demand is sometimes difficult to meet. Denver Basin well production is insufficient
- A metered connection, which needs to be installed, to Triview's Water Distribution System could solve this situation by preserving Monument's Wells for future Drought Mitigation and help meet Monument's Peak Summer Demands now and in the future.
- Triview intends to install 1000 feet of 16" pipeline from the westside of I-25 through Conexus Development Fall 2023. This makes service to the Town possible beginning in July 2024 with the addition of a meter and short inter connect.



Proposal to Monument to Participate in Full Service NDS

- *Assumed Delivery rate Maximum 683,000 gallons per day.*
- *Percentage of owned NDS 17.075%*
- *Current Projected Cost for NDS \$26,104,255. Monument Capital Investment approximately \$6,457,302. Includes all permitting costs including Pueblo County 1041, El Paso County 1041, Revisions to Excess Storage Capacity, and contractual revisions*
- *Annual Delivery Capacity Approximately 400 Acre Feet Per Year initially. Can be expanded if needed.*
- *3" Meter Size Capacity \$2,731,621. Can be financed!!!*
- *Payment at 3.14% 25 Years. \$154,496 per year beginning when water is delivered through NDS (O&M Expense)*
- *Triview will provide this water at \$13.14 per thousand gallons full service*
- *Triview will deliver Monument owned water at \$10.50 per thousand gallons convey treat and deliver rate.*
- *Total Capital Investment Due Now \$6,457,302.*



Advantages to Monument

- Could begin receiving Water from Triview as soon Metering Station is Installed and 1,000 feet of Pipe Constructed. Triview will pay for Pipeline. Triview and could build metering station with reimbursement from the Town. Estimated Completion date June 1, 2024.
- Estimated NDS Completion date July 1, 2024
- Capture of Return Flows will be done by Triview using Stonewall Springs Reservoir and Pueblo Reservoir.
- Provides a solution to the Town while it acquires permanent water rights and builds a reuse system (Loop Participation?)
- NEED TO KNOW NOW SO CONSTRUCTION AND PERMITTING CAN BE COMPLETED. 6-12 month timeline!!



Question And Discussion???



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