

## More than \$60 million toward environmental measures

The environmental components of NISP will include various mitigation and enhancement measures, in which Northern Water and the NISP participants will utilize existing and new partnerships in a holistic approach to improve local ecosystem health. **These efforts will take place at the new reservoirs, as well as along a 42-mile stretch of the Poudre River**, so the river can continue serving as a reliable and safe water supply for years to come, and also remain an ecologically vibrant stream for local residents and wildlife. These measures will include:



- Wetlands, stream channel and riparian vegetation improvements
- Endangered species mitigation
- Extensive water quality monitoring
- 1,400 acres of wildlife conservation area around Glade Reservoir
- Strategic releases out of Glade Reservoir to eliminate existing dry-up points in the Poudre River
- Bypassing some diversions at Glade Reservoir to benefit the Poudre River downstream
- Fish bypasses at existing dams to improve fish movement along the Poudre River (shown in the photo above)

## A project that aligns with the goals of the Colorado Water Plan

The state's Colorado Water Plan reinforces how water storage will be needed to meet our future supply gap, which is the estimated difference between existing supplies and the state's anticipated demands by 2060. **The Colorado Water Plan identifies the need for additional "smart storage," meaning NISP can play a key role in meeting a portion of the state's future needs.**

The plan also identifies conservation efforts, water reuse and other strategies as additional solutions to help meet demands – all of which the NISP participants are pursuing.



Furthermore, the plan calls for finding ways to keep irrigated agriculture in production. Without NISP, the project participants would most likely be left to purchase more water from existing farms and ranches — needing to dry up more than 64,000 acres of irrigated farmground to attain the amount of water that NISP would provide.

Because it meets so many of the Colorado Water Plan's objectives and will provide numerous benefits to the region, **NISP has received many endorsements from a wide variety of groups and individuals**, including conservation districts, county commissions, chambers of commerce, public officials, ag organizations and local publications.

## NISP's status and upcoming timeline

- 2017 – Approval of NISP's Fish and Wildlife Mitigation and Enhancement Plan
- 2018 – Final Environmental Impact Statement released
- 2020 – 401 Water Quality Certification Permit granted from the State of Colorado
- 2020 – 1041 Permit granted by Larimer County, regarding recreation and pipeline routes
- 2022 – Record of Decision and 404 Permit granted from the U.S. Army Corps of Engineers
- 2022-2025 – Project design to be finalized
- 2025-2031 – Anticipated construction dates
- 2032 – First water deliveries from Glade Reservoir

You can learn more at [www.NISPwater.org](http://www.NISPwater.org)  
or follow us on Facebook and Twitter at [@NISPwater](https://www.facebook.com/NISPwater)



## The Northern Integrated Supply Project (NISP)

An innovative and collaborative water-storage project that will help rapidly growing Front Range communities meet their future water needs, while also implementing protections for the environment and wildlife, creating new recreation opportunities, and helping preserve our local farms and ranches.



# THE NORTHERN INTEGRATED SUPPLY PROJECT:

A new, two-reservoir, water-supply project with **more than \$60 million toward environmental measures**

The environmental components of NISP will include a variety of mitigation and enhancement measures, in which Northern Water and the NISP participants will utilize existing and new partnerships in a holistic approach to improve local ecosystem health. These efforts will take place at the two new reservoir sites (Glade and Galeton), as well as along the Poudre River, so it can continue serving as a reliable and safe water supply for years to come, and remain an ecologically vibrant river for local residents and wildlife.

In addition to site-specific projects, **\$1 million will go to the development of a river master plan** to provide further long-term benefits for 42-plus miles of the Poudre River.

**Wildlife underpass along the new U.S. 287 Highway route for safer crossing**

**2.4 miles of stream-channel enhancements** (two 1.2-mile stretches), where flood plain-channel connectivity restoration will take place, as well as **54 total acres of riparian vegetation improvements** in the surrounding area, including cottonwood regeneration

**Wildlife habitat conservation covering nearly 1,400 acres around Glade Reservoir**

**Glade Reservoir**  
170,000 acre-feet

U.S. Highway 287 Realignment

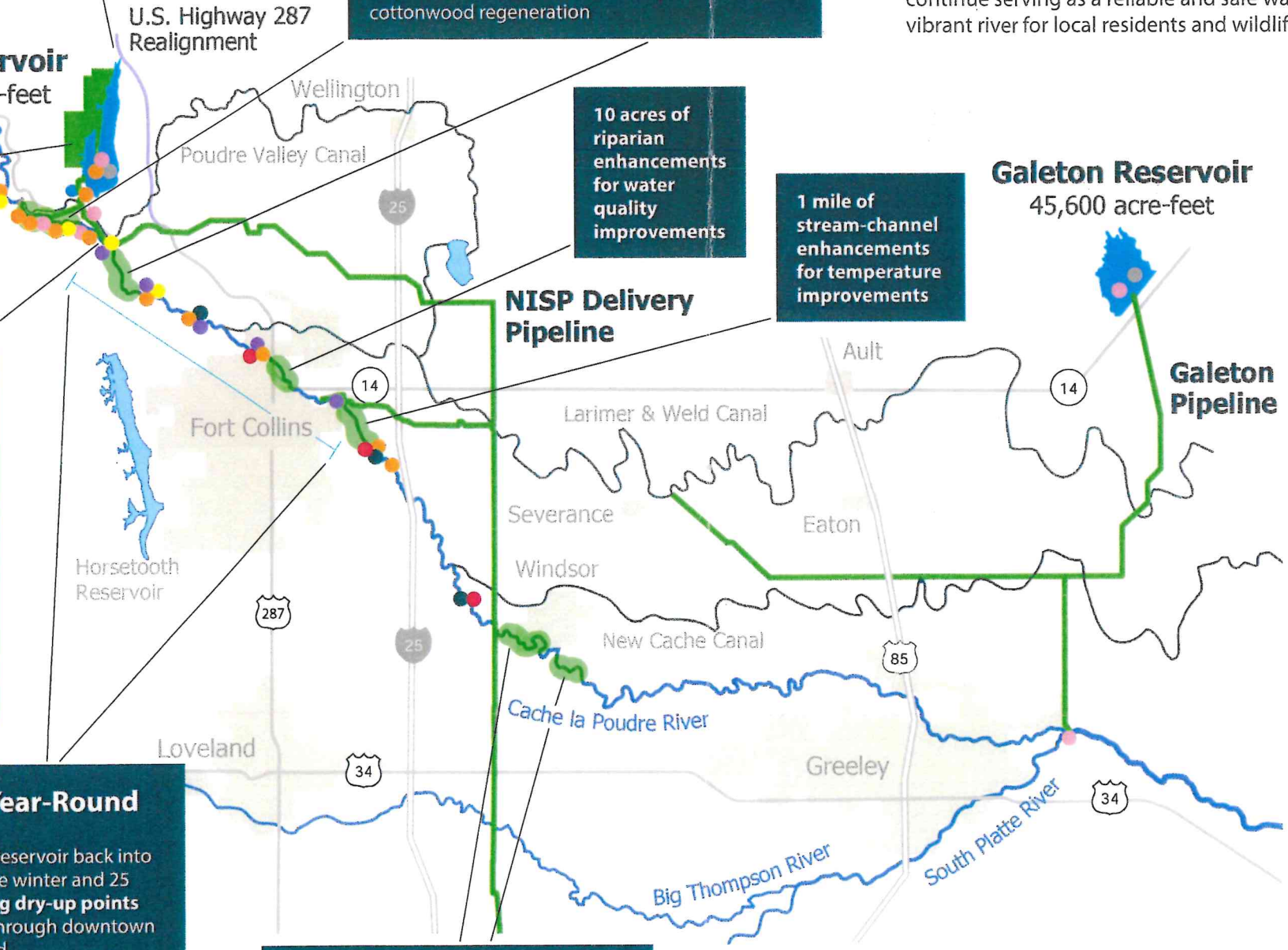
**10 acres of riparian enhancements for water quality improvements**

**1 mile of stream-channel enhancements for temperature improvements**

**Galeton Reservoir**  
45,600 acre-feet



This fish bypass was completed in 2019 as part of a collaborative effort between Northern Water, the NISP participants, Colorado Parks and Wildlife, noosa Yoghurt and Morning Fresh Dairy. As part of NISP, a total of **four fish bypasses will be built along the Poudre River**, which will enhance fish movement.



## NISP's Water Quality Monitoring Commitments

- Temperature monitoring sites (12)
- Arsenic and copper monitoring sites (5)
- E. coli monitoring sites (3)
- Aquatic life monitoring sites (4)
- Nutrient monitoring sites (3)
- Mercury fish tissue sampling sites (2)
- New reservoir routine monitoring sites (6)  
(2 forebay sites, 2 reservoir sites and 2 river sites)

Some of these monitoring sites will remain in operation for decades.

Along with these monitoring sites, other NISP water quality commitments include:

- **\$1.5 million for E. Coli reduction measures and studies**
- **\$925,000 for nutrient reduction measures and studies**
- **Water quality stormwater system upgrades along the Poudre River**

Many of these water quality commitments come in addition to extensive ongoing measures. Northern Water, for example, already collects about 250 samples each year as part of its regular Poudre River monitoring efforts, with an annual cost of approximately \$450,000.

## Improving Poudre River Flows Year-Round Streamflow Commitments

- Water will be strategically released from Glade Reservoir back into the Poudre River (18 cubic feet per second in the winter and 25 cfs in the summer), which will **eliminate existing dry-up points across a 12-mile stretch of the Poudre River** through downtown Fort Collins and improve streamflows year-round.
- Diversions into Glade Reservoir will be curtailed when Poudre River flows are less than 50 cfs in the summer and less than 25 cfs in the winter.

## Flushing Flow Commitments

- To maintain the river's beneficial flushing flows during spring run-off, Glade Reservoir won't divert water during peak flows in two-thirds of years, and will bypass diversions for up to three days – equivalent to as much as 6,000 acre-feet in most years.
- NISP's various flushing flow commitments will result in little to no diversions during peak flows in 90 percent of years.



**An additional 48 acres of wetland and riparian vegetation improvements** across multiple sites, including at the Eastman Park Wetlands Experience in Windsor, completed in 2024.

Many of these environmental measures are outlined in the **NISP Fish and Wildlife Mitigation and Enhancement Plan**, which was approved by Colorado Parks and Wildlife in 2017.

Other measures fall under commitments outlined in **NISP's 401 Water Quality Certification**, which was granted by the Colorado Division of Public Health and Environment in 2020.

**Improved Water Quality • Better Aquatic and Wildlife Habitat  
Enhanced Poudre River Recreation • Increased Flood Resilience**





## NISP's two new reservoirs will help Northern Colorado meet its future water needs

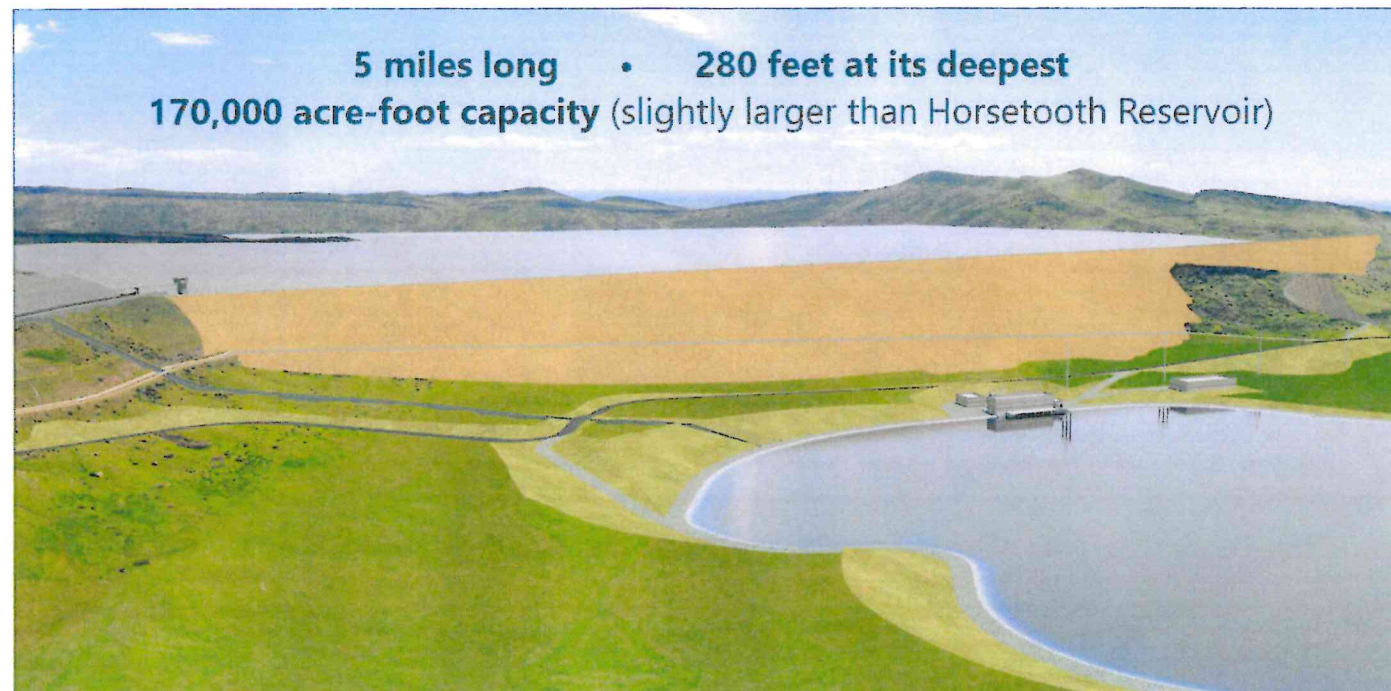
The Northern Integrated Supply Project (NISP) will supply 15 water providers with **40,000 acre-feet of new, reliable water supplies each year**. Northern Water is pursuing permits, design and construction of NISP on behalf of the 15 Northern Colorado cities, towns and water districts that are project participants.

During design and permitting, **215 reservoir sites, pipeline routes and other elements were examined** to ensure NISP will be built and operated in a responsible manner for the region and its residents.

The 15 participants currently serve about 250,000 residents, with that number expected to double by 2050.

These communities are embracing conservation efforts, water reuse and other strategies to meet future demands. Collectively, with help from their customers, **participants have reduced per-capita water use by about 30 percent since 2000**. Even so, NISP's water is a critical component of ensuring future demands are met.

## Glade Reservoir



- Glade will be located northwest of Fort Collins near the intersection of U.S. Highway 287 and State Highway 14.
- The reservoir will divert water from the Poudre River, mostly at high-flow times during spring run-off.
- Glade Reservoir will NOT require a new diversion structure on the Poudre River. Rather, it will use an upgraded Poudre Valley Canal (PVC) structure near the canyon mouth to divert water into Glade Reservoir.
- The reservoir site straddles the current alignment of U.S. Highway 287 and, therefore, about 7 miles of the highway will be relocated to the east.

### Bringing new recreation opportunities to the region

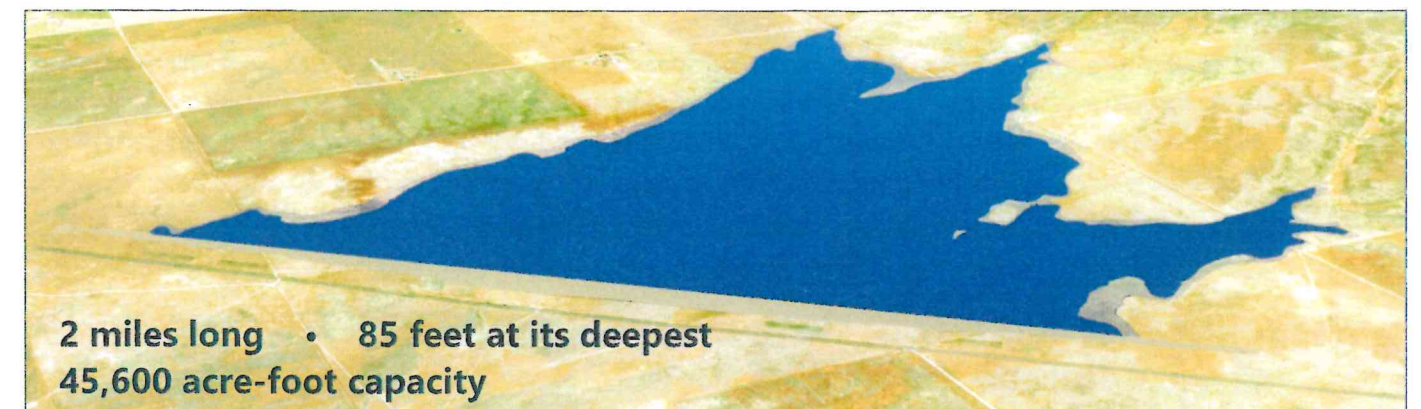
In addition to critical water storage, NISP will bring new and much-needed recreation opportunities to Northern Colorado, with a concept plan that calls for **motorized and non-motorized boating, fishing, camping, hiking and biking at Glade Reservoir**.



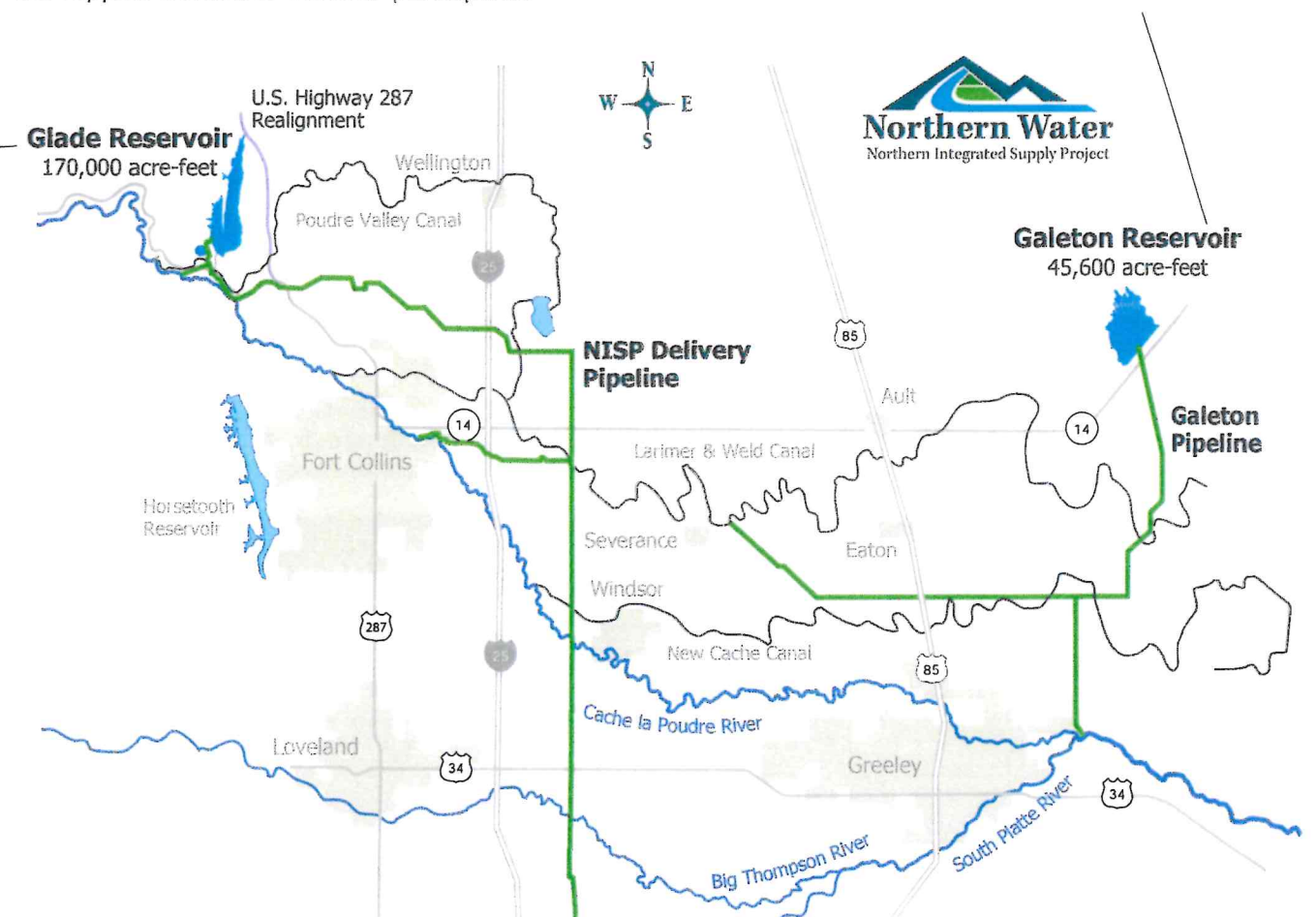
## NISP's 15 Participants (Yield from project in acre-feet)

Central Weld County Water District (3,500) • Dacono (1,250) • Eaton (500) • Erie (6,500)  
 Evans (1,200) • Firestone (1,300) • Fort Collins-Loveland Water District (8,100) • Fort Lupton (1,050)  
 Fort Morgan (3,600) • Frederick (2,600) • Lafayette (1,800) • Left Hand Water District (3,500)  
 Morgan County Quality Water District (1,300) • Severance (500) • Windsor (3,300)

## Galeton Reservoir



- Galeton Reservoir water will be diverted from the South Platte River near Greeley at high-flow times.
- Galeton water will be used for cooperative water exchanges that will help ensure Glade Reservoir can fill and deliver the supplies needed to the NISP participants.



The NISP Delivery Pipeline will connect to the existing Southern Water Supply Project pipelines northeast of Longmont to complete the delivery of NISP supplies to the project's southern participants.

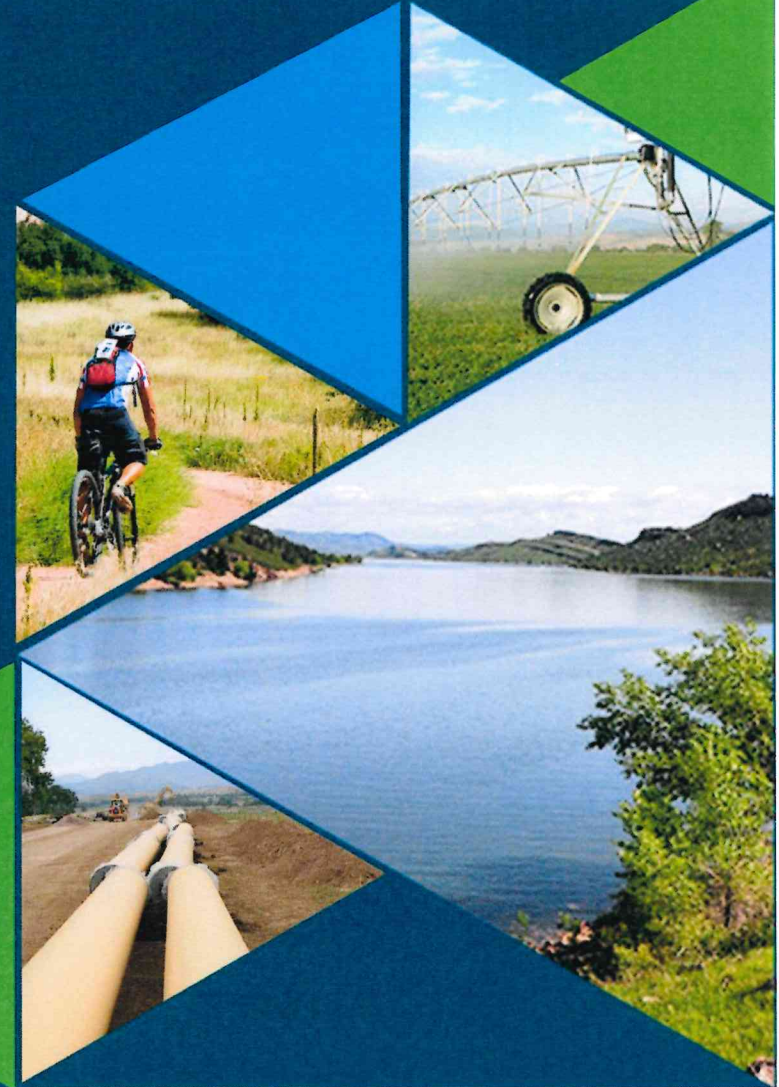




# Northern Integrated Supply Project (NISP) Platteville, June 2025

Carl Brouwer and Stephanie Cecil

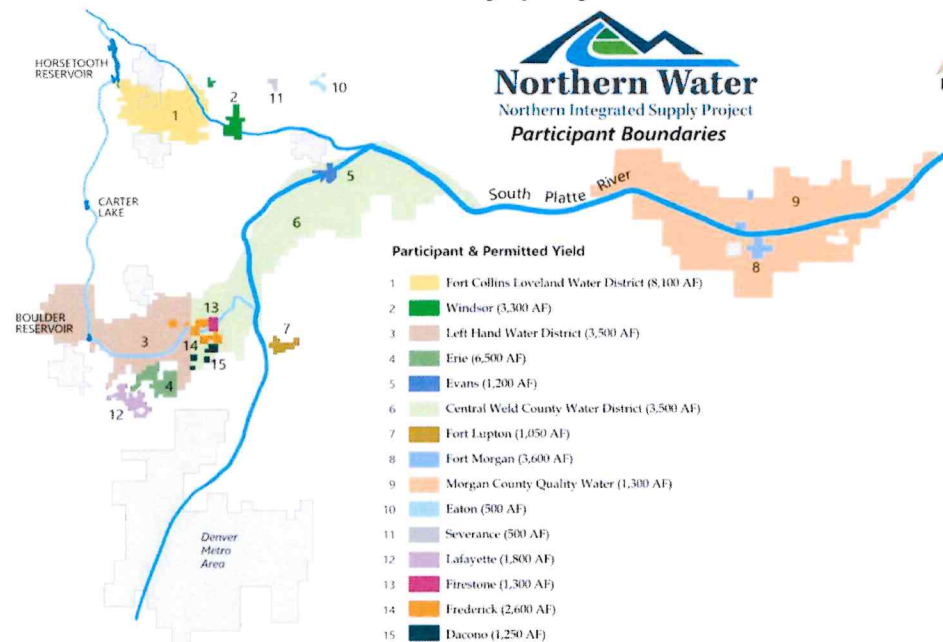
Northern Water



# NISP Purpose

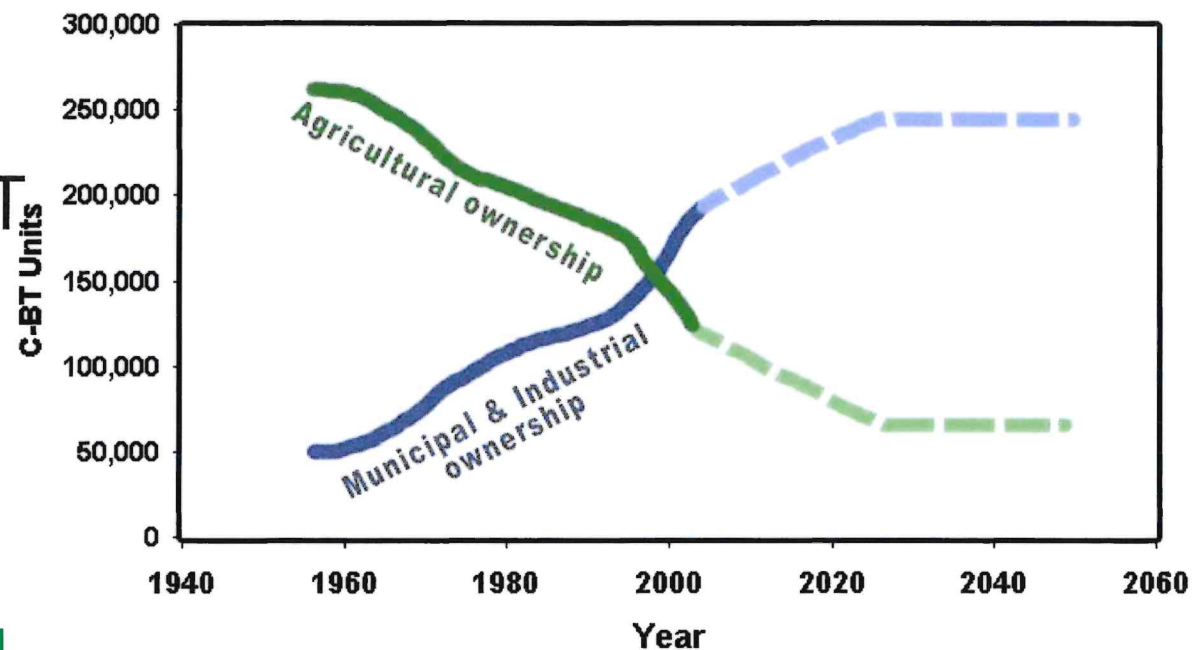
## Final Environmental Impact Statement Purpose & Need

To provide the Project Participants with approximately 40,000 acre-feet of new reliable municipal water supply annually through a regional project coordinated by the District, which will meet a portion of the Participants' current and reasonably projected future additional water supply needs.

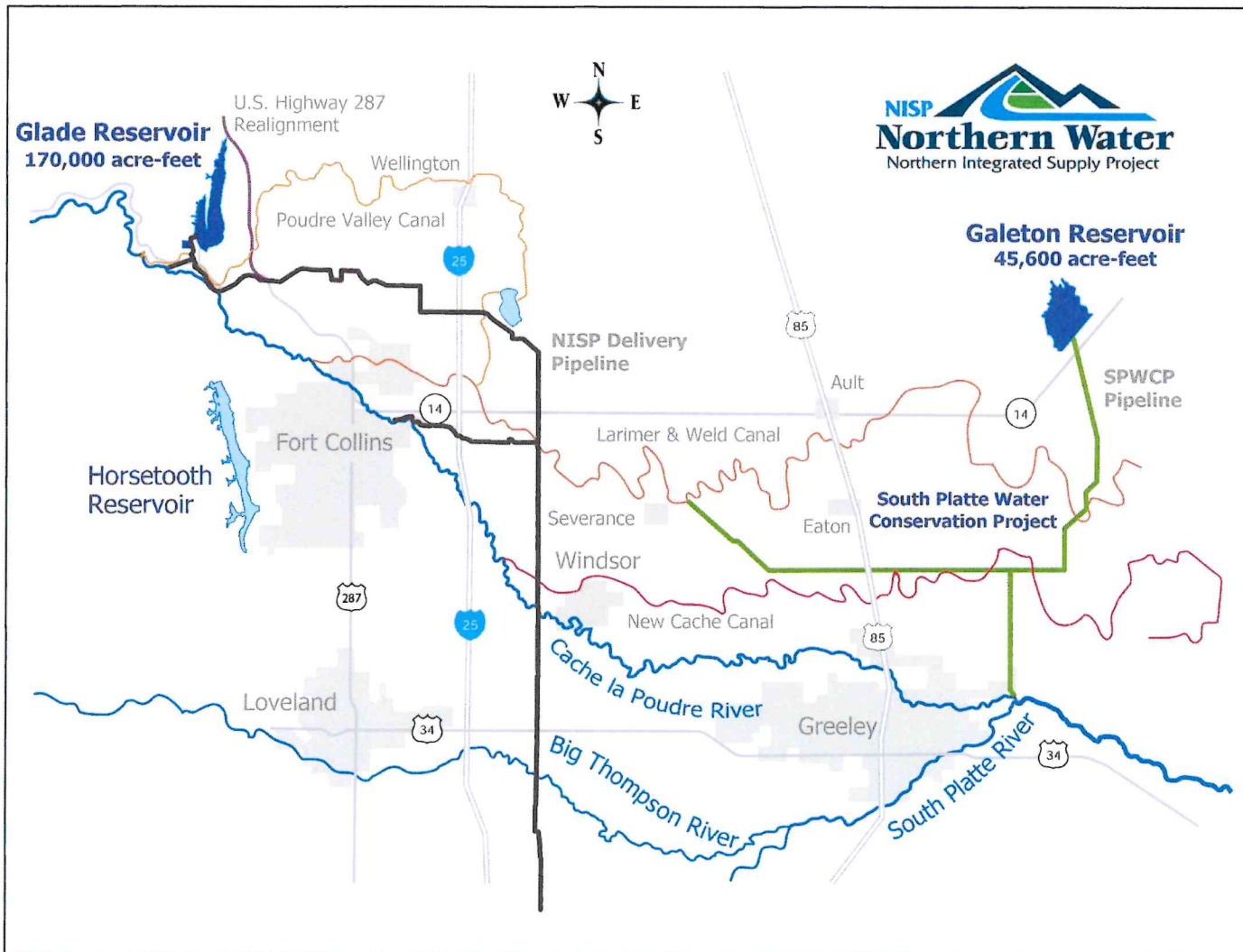


# Project Overview – Why?

- Less C-BT on market
- Not "Buy & Dry"
- Storage + Flexibility
- Similar in Price to C-BT



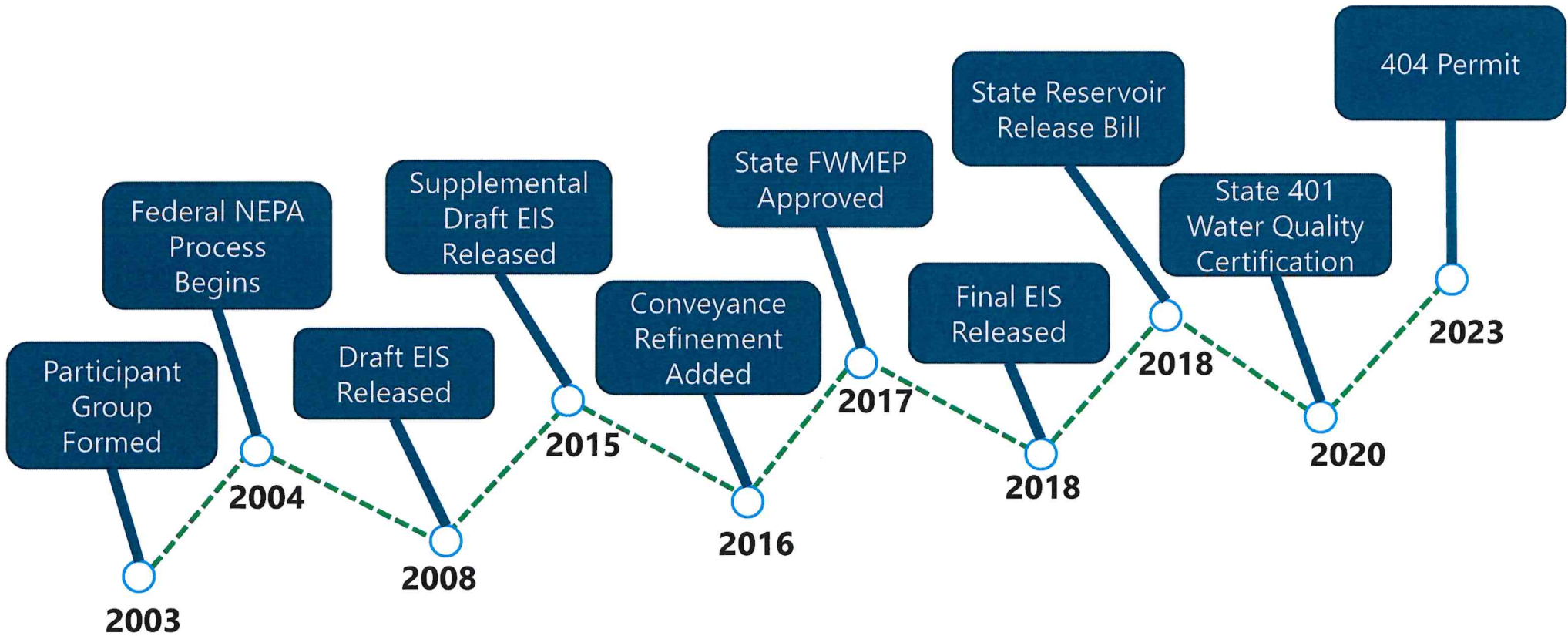




# NISP at a Glance

- 40,000 AF per Year
- 2 New Reservoirs
- 80 Miles of Pipelines
- 7 Miles of Highway 287 Relocation
- Paid for by 15 Participants
- Approx. \$2.5B Total
- \$170M Spent to Date

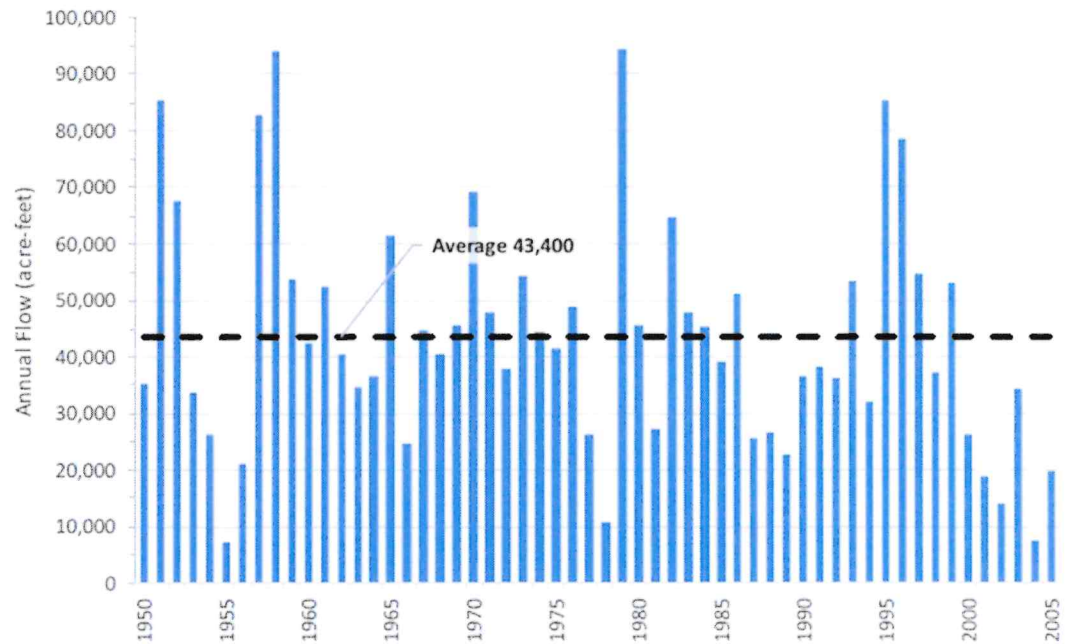
# Permitting





# Water Rights and Yields

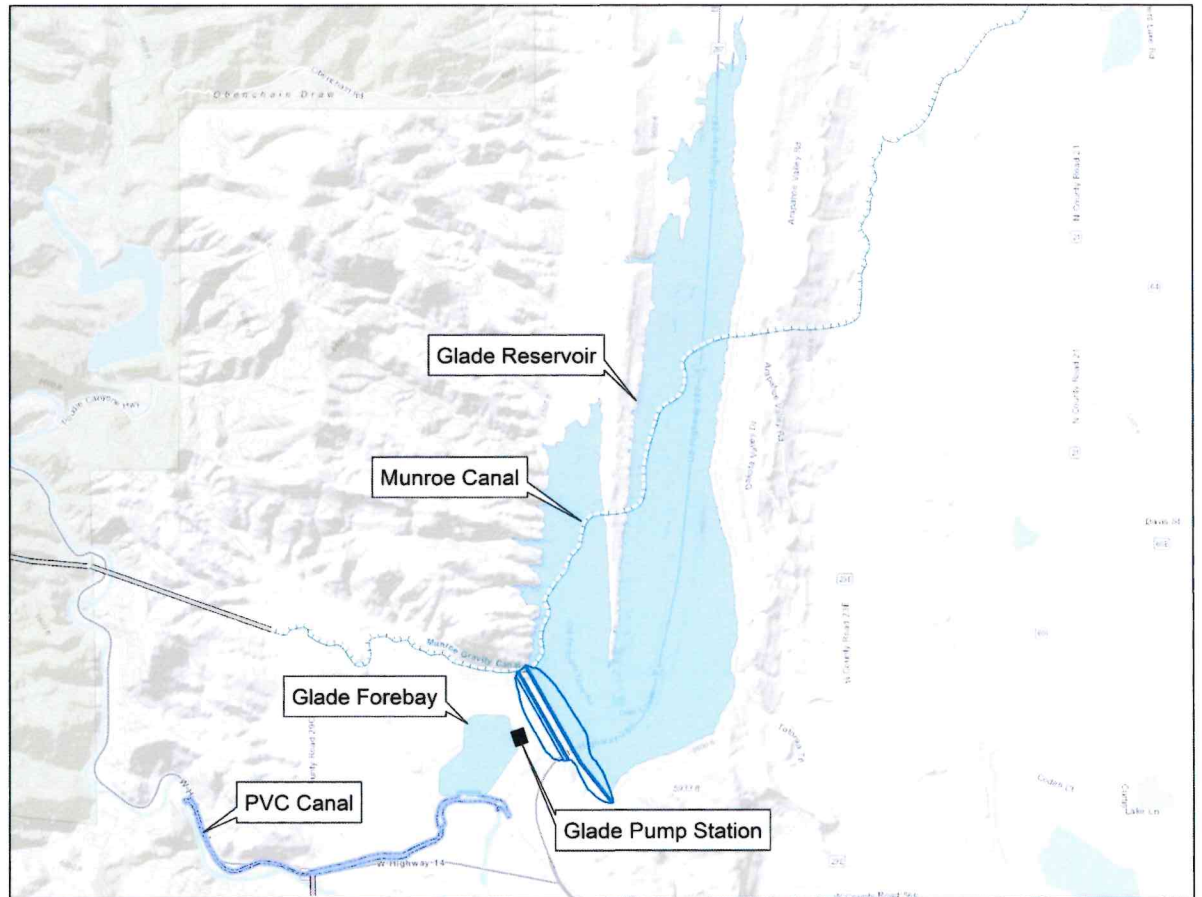
- Grey Mountain Poudre Decree
  - 1980 Water Right
  - 7/8's of the 220,000 Acre-ft Storage
  - Yield to NISP is 20,000 Acre-ft/Yr Based on 1950-2005 Hydrology
- South Platte Water Cons. Proj.
  - 1992 Right on S. Platte River
  - Galeton: 45,600 Acre-ft Storage
  - Expandable to 81,000 Acre-ft
  - Adds 20,000 Acre-ft of Yield
  - Use Directly or by Exchange with Larimer&Weld and New Cache



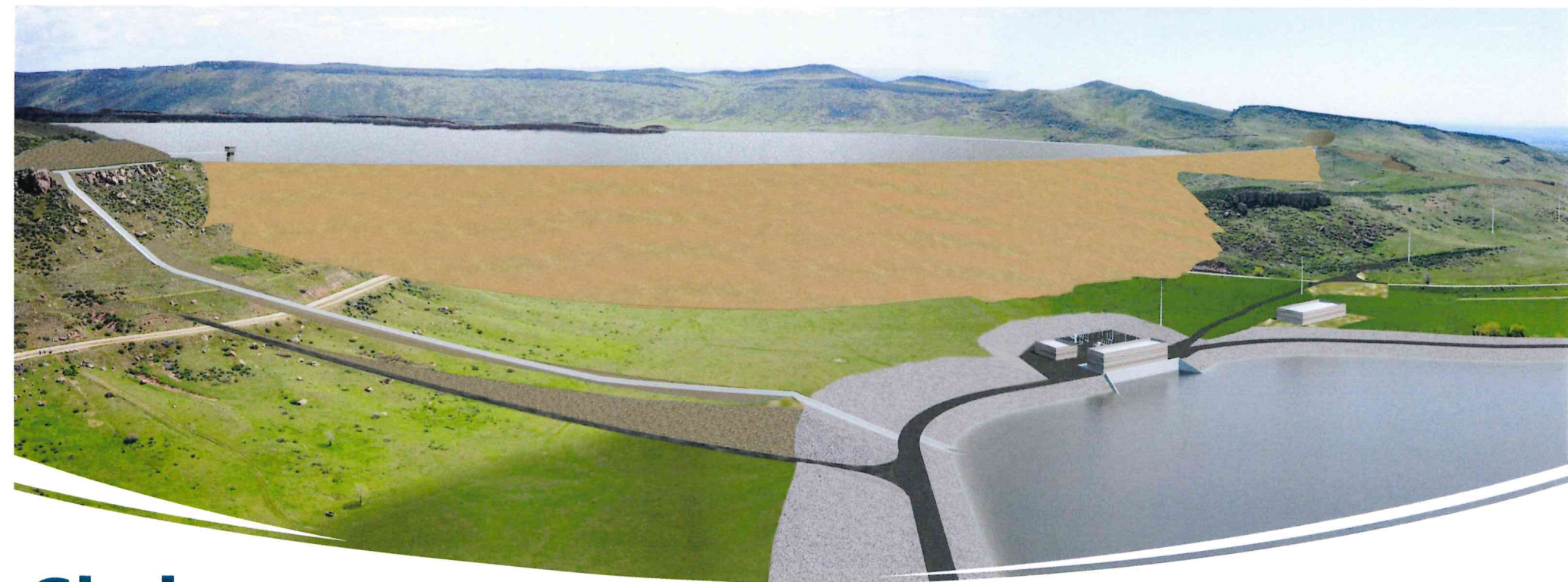


# Glade Reservoir - Details

- Dam
  - 170,000 AF of storage
  - 280-foot-tall Earth/Rock fill
  - Material all on-site
  - Approximately 18M cy of fill
- 40,000 Hp Pump Station
- Munroe Canal Relocation
- 1,500 AF Forebay
- Poudre Valley Canal Enlargement







# Glade Reservoir Advancement

- Advancing towards 99% Design
- Coordination with State & Technical Advisory Panel
- Contractor Prequalification
- Construction Summer 2026



# Highway 287 Relocation

- Critical Path for Glade Reservoir
- Advancing Towards 99% Design
- Hired SEMA as CM/GC
- Complete Land Purchases





# Galeton Reservoir

- 45,600 Acre-ft
- 75 Feet Tall Dam
- 1,700 Acres
- All Land Purchased
- Expandable to 81,000 Acre-ft





# Glade Schedule

Schedule is Preliminary & Subject to Change, June 5, 2025

Construction Element	2025				2026				2027				2028				2029				2030				2031			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Highway 287 Relocation (CMGC)																												
Glade Main Embankment																												
Glade Munroe Canal Bypass																												
Glade PVC																												
Glade Pump Plant																												
Pipeline - Northeast																												
Poudre Intake Pump Plant																												
Pipeline - Countyline Middle																												
Pipeline - Countyline South																												
Pipeline - Northern Tier West																												

- Procurement
- Bid Opening
- Limited Construction
- Construction
- Complete





# Finance Plan

## Funding Needed (2025 Dollars)

- Glade, HW 287, Delivery Pipelines - \$2,000 Million
- Galetton Phase - \$500 Million +/-
- Total Cost Approx. \$60,000 to \$70,000 / Acre-ft

## Potential Sources

- EPA WIFIA - Approved to Apply for 49% of Project
- CWCB - \$100M Low Interest Loan
- Municipal Bonds
- Early Commercial Bank Loan
- Other, Grants?





# Allotment Contract

- Allotment Contract by November 2025
- Sign Following Receiving Glade Bids in March 2026
- First Allotment Contract for Glade and Conveyance Facilities
- Pro-rata Share of Inflow and Storage (4.25 Acre-ft per Unit of NISP)
- Participate in Group Financing with Repayment Obligations



# QUESTIONS?