



Northern Integrated Supply Project (NISIP) Water Literate Leaders

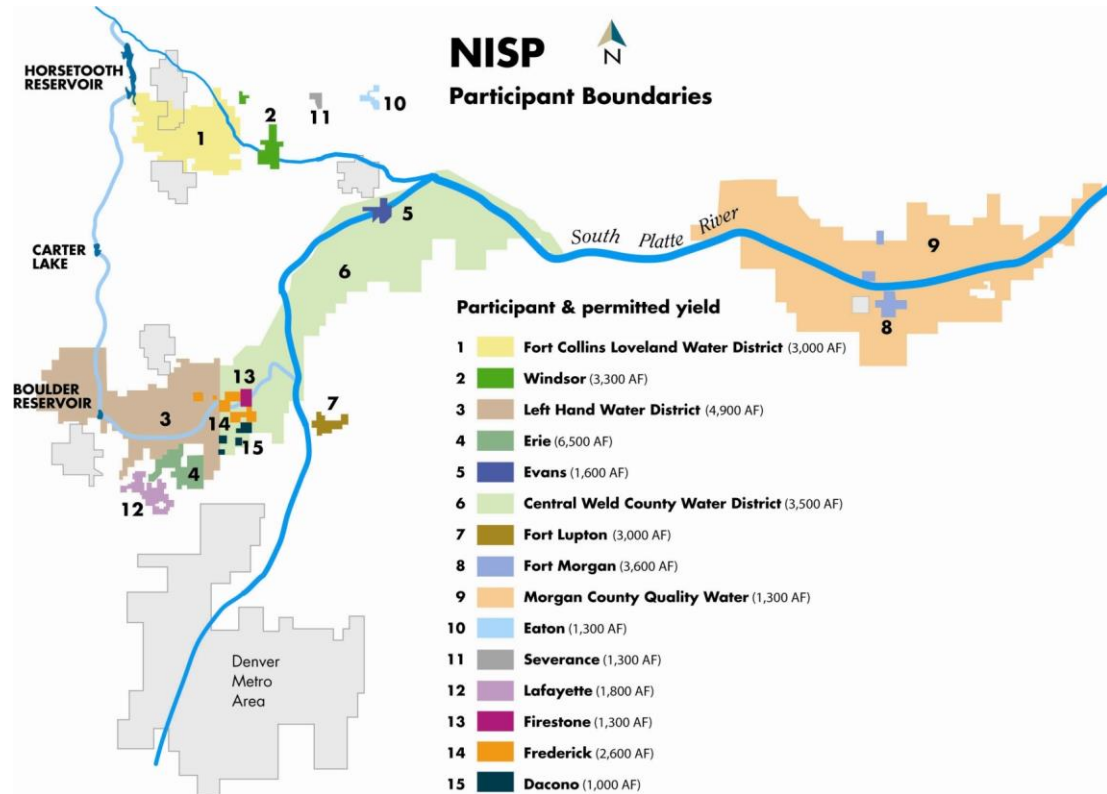
Carl Brouwer
Project Management
Department Manager



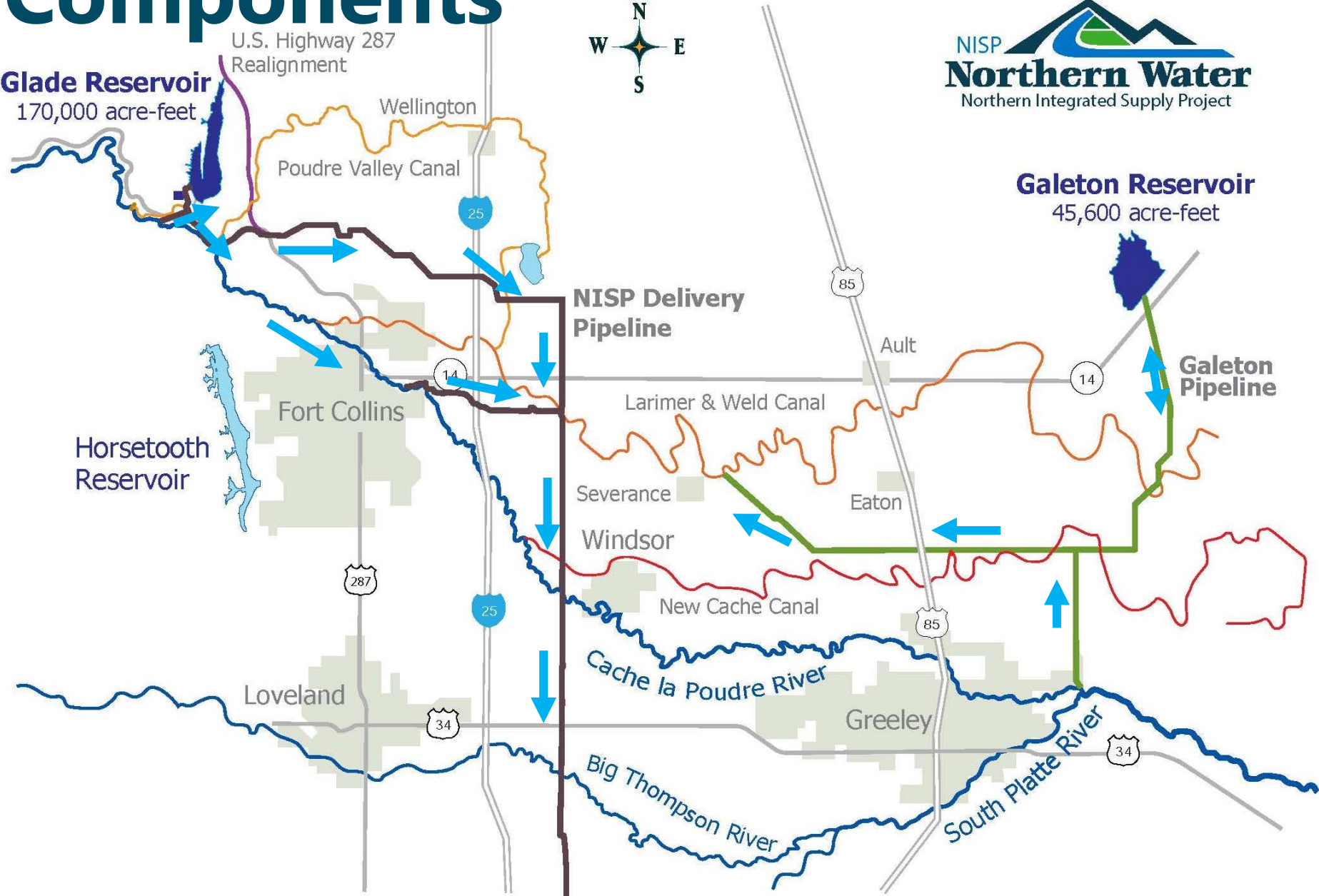
Why NISP?

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.



NISP Components

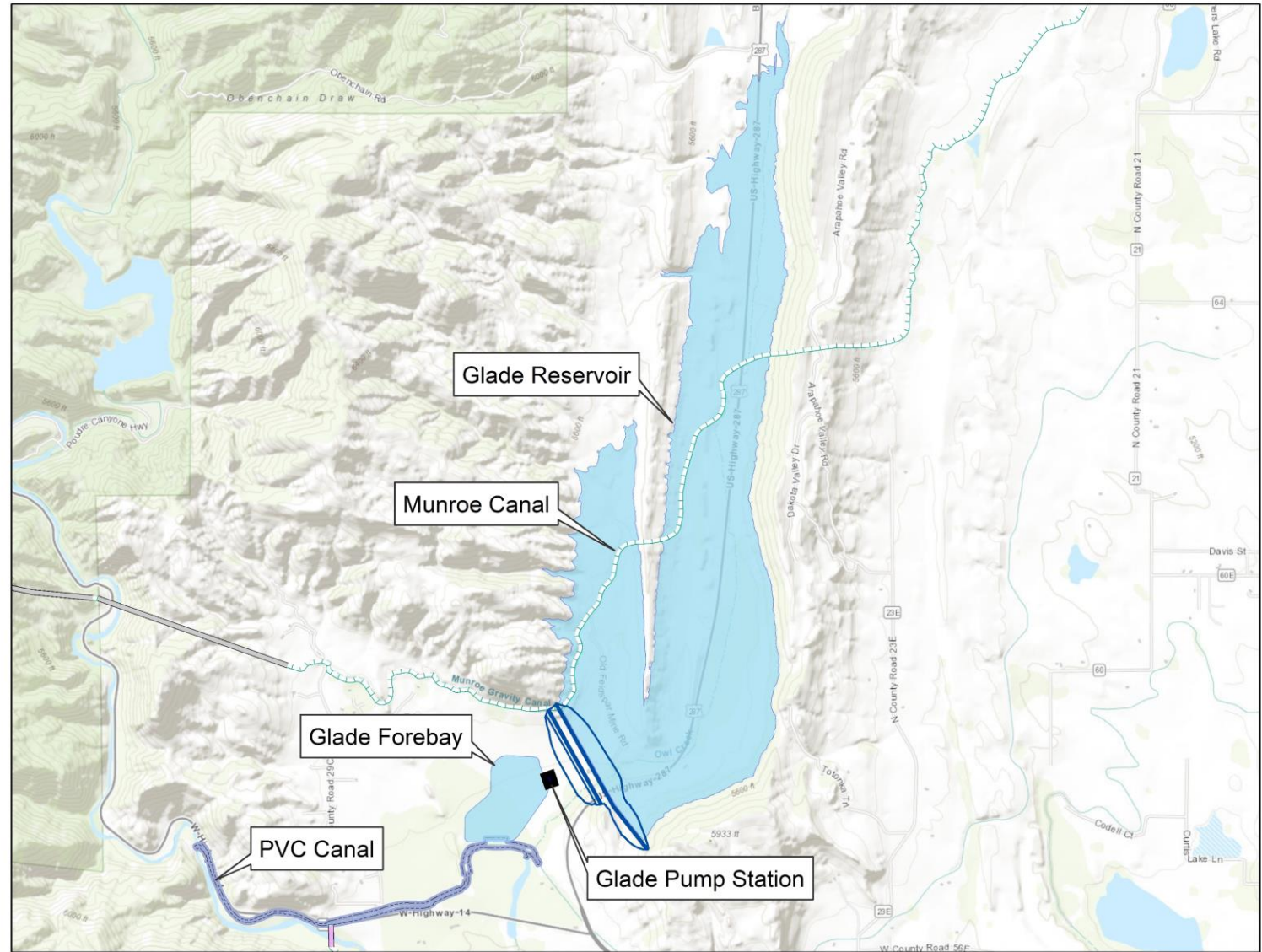


Glade Reservoir and Forebay



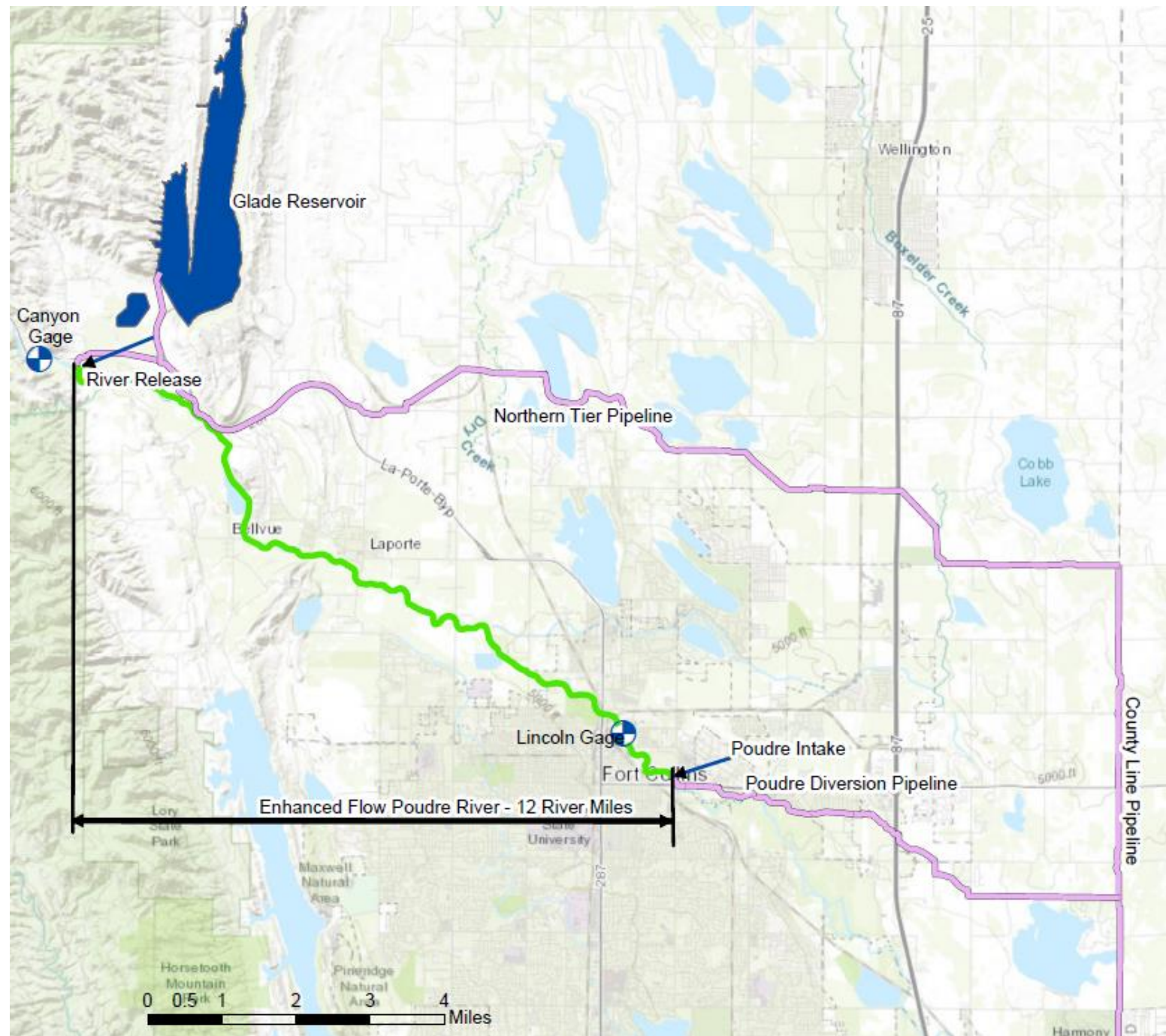
Glade Reservoir

- 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



Delivery Conveyance Refinement

- 12 Miles of Poudre River
- Year-Round Deliveries
- Approximately 1/3 NISP Yield
- Eliminates Dry-up Points
- Required New Colorado Law
- Improves Environment



Galeton Reservoir

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



Ditch Substitution & Exchange

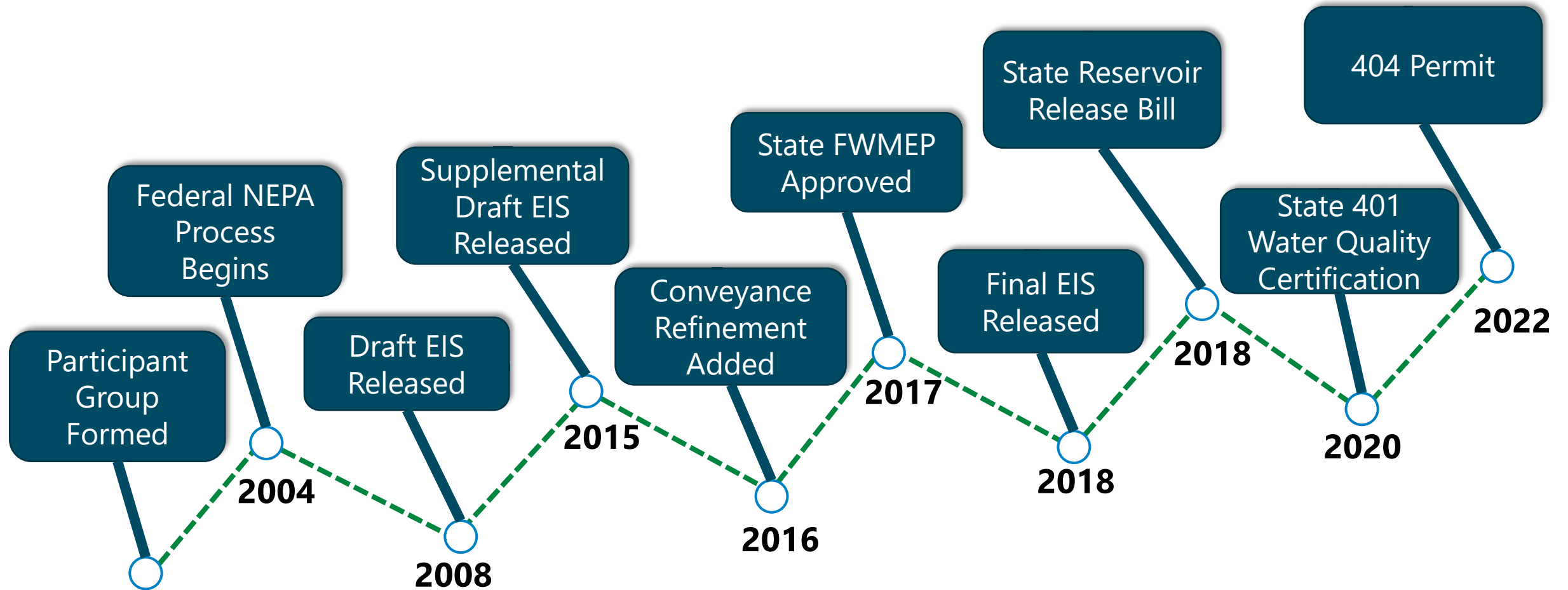
- Larimer & Weld to Poudre Valley Canal
- New Cache to Poudre Valley Canal
- Small fraction of total diversions
- Compensate ag companies for benefit of shareholders



Permitting – A Three-Hour Tour?

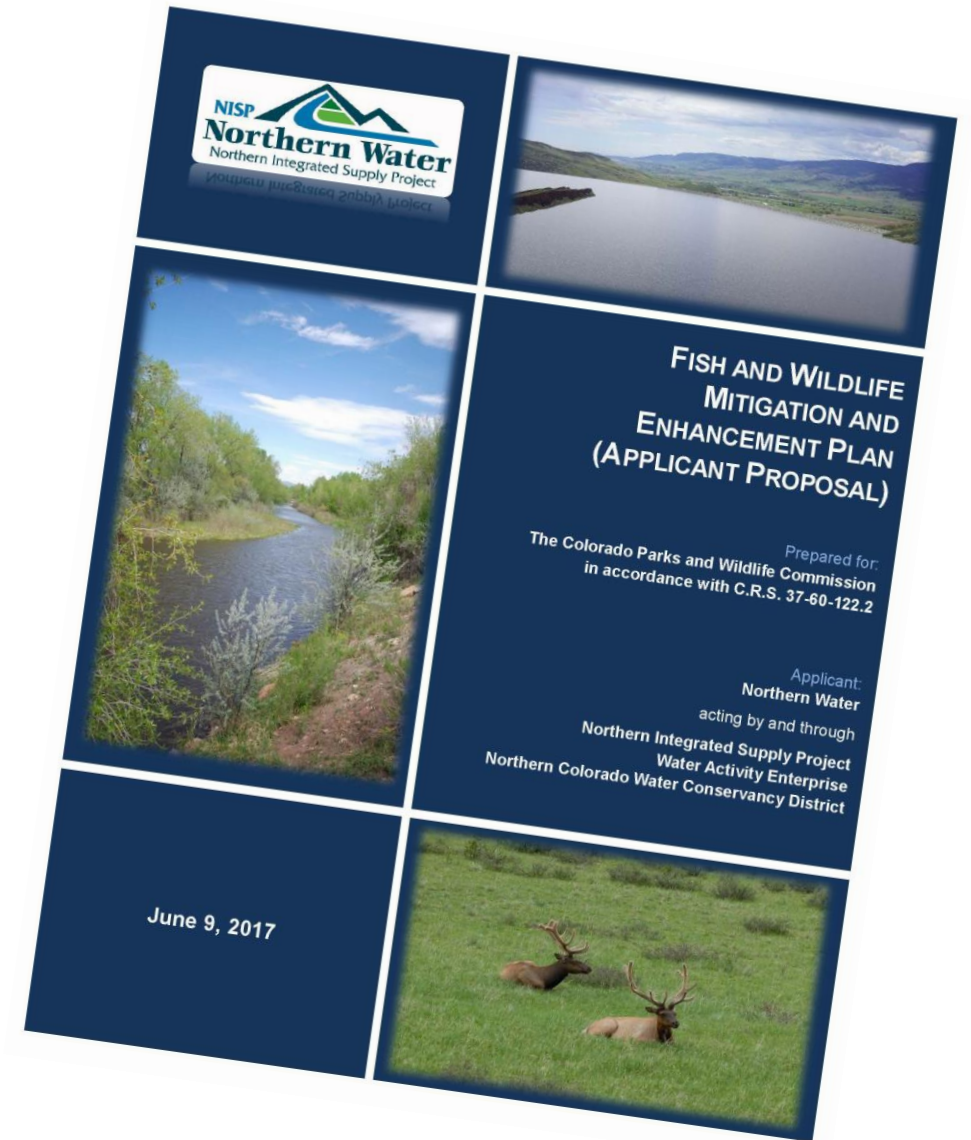


Permitting



2017 State Fish and Wildlife Mitigation and Enhancement Plan

- Nearly \$60M Commitment
- River Flow Enhancement
- First of its kind Peak Flow Program
- River Channel Improvement
- Diversion Structure Fish Bypass
- Glade Fishery
- Elk Habitat Preservation



2020 – State 401 Water Quality Certification

“The Division concludes that the conditions imposed on the Applicant provide reasonable assurance that the Project will comply with all applicable requirements, and that the commitments for mitigation and water quality improvement measures are sufficient to **result in positive net effects** such that significant degradation will not occur. Therefore, the Division’s finding with regard to the significance determination is: no significant degradation.”

2020 – Larimer County 1041

- September 2020 – Approved by Larimer County Board of County Commissioners
- 8 Public Hearings/ Meetings
- Over 50 Permit Conditions Covering Construction, Recreation, Pipelines, and Noise
- Recreation
 - \$21 Million Commitment
 - 190 Acre Recreation Area
 - Visitor Center, Camping, Hiking, Boating, Fishing



Clean Water Act Section 404 Permit

- Culmination of 19 years of Environmental Process Led by US Army Corps of Engineers
- Cooperating Agencies – EPA, BLM, USFWS, Colorado DNR, CDPHE, CDOT, Larimer County
- No-Action – 60,000 acres of Agricultural Dry-up
- Numerous Alternatives Analyzed Considering Environmental Criteria
- Biological Opinion from US Fish and Wildlife Complete
- Fish and Wildlife Coordination Act with USFWS Complete
- Programmatic Agreement for Cultural Resources with State Historic Preservation Office Complete



Major Milestones and Next Steps

2019 – Watson Fish Hatchery

- Part of Fish and Wildlife Mitigation and Enhancement Plan to retrofit of existing diversion structures
- Maintain primary function of ensuring enough head to divert water
- Measurement of NISP flows
- Provide for native small-bodied fish and trout passage via fish ladders and rock ramps
- Partnered with NOOSA/Morning Fresh Dairy



Watson Fish Hatchery

Glade Construction Manager/ General Contractor

- Best Value to NISP Enterprise
- Schedule Certainty
- Early Cost Surety
- Risk Allocation & Mitigation
- Geotechnical Design
Assessment – Site Testing



Planning Implementation

FINAL DESIGN

Glade
HW 287
Pipelines
Galeton

FINANCING

WIFIA Federal Loan
Municipal Bonds
Participant "Cash"

ALLOTMENT CONTRACTS

What is being allocated?
Participant Commitments

CONSTRUCTION PLANNING

Scheduling
Cost Estimating
Procurement
Project Controls

Environmental Commitments

WATER QUALITY

Monitoring
Adaptive Management
Water Quality Improvements

RIVER ENHANCEMENT

Diversion Structure Passage
Channel Improvement

CONSTRUCTION IMPACT MITIGATION PLANNING

WETLANDS AND RIPARIAN

Implementation Schedule

CONTRACT DESCRIPTION	2022				2023				2024				2025				2026				2027				2028				2029							
	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	Q1	Q2	Q3	Q4				
RECORD OF DECISION																																				
GLADE RESERVOIR																																				
POUDRE VALLEY CANAL																																				
GLADE PUMP STATION																																				
NISP CONVEYANCE PIPELINES																																				
GALETON PIPELINES																																				
GALETON RESERVOIR																																				
SCHEDULE KEY:																																				
PRELIMINARY DESIGN																																				
DETAILED DESIGN																																				
PROCUREMENT																																				
CONSTRUCTION																																				
DATE WHEN HIGHWAY 287 IS RELOCATED																																				