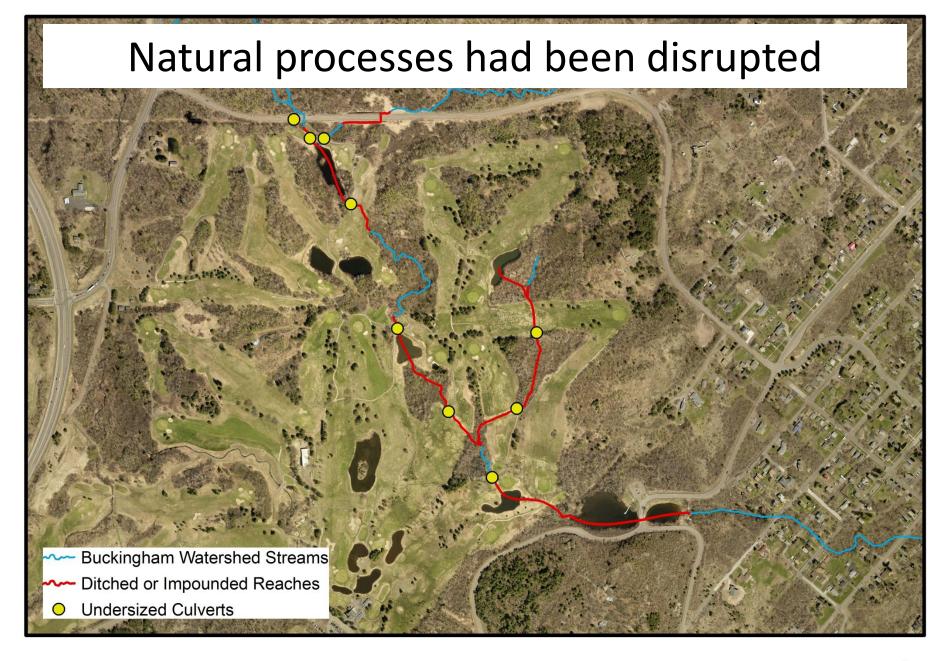


Duluth Natural Resources Commission Presentation – March 6, 2024-October 1, 2025

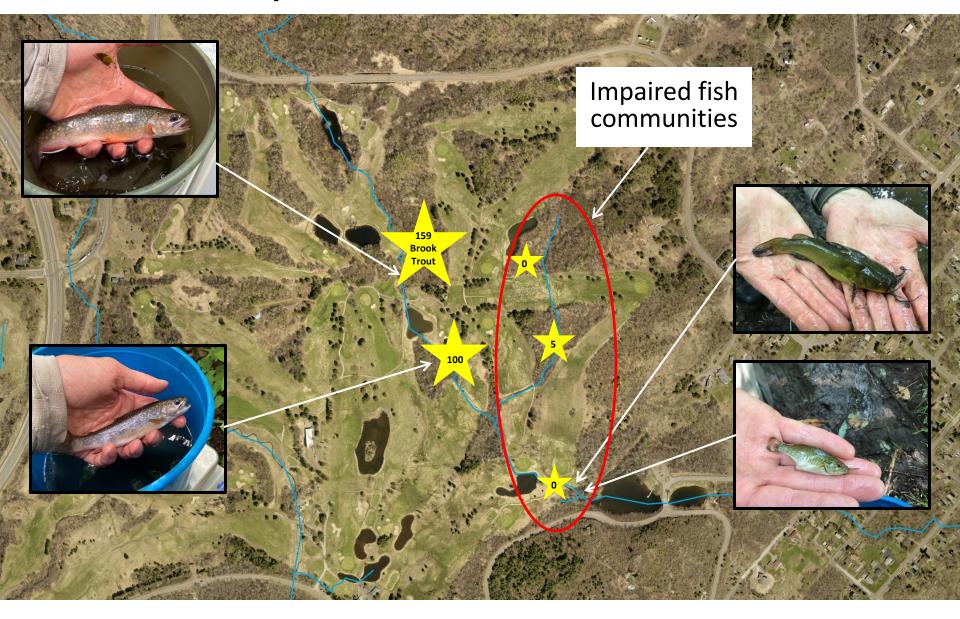
Tim Beaster, Conservation Specialist tim.beaster@southstlouisswcd.org (218) 723-4867







# Impacts to Trout Stream

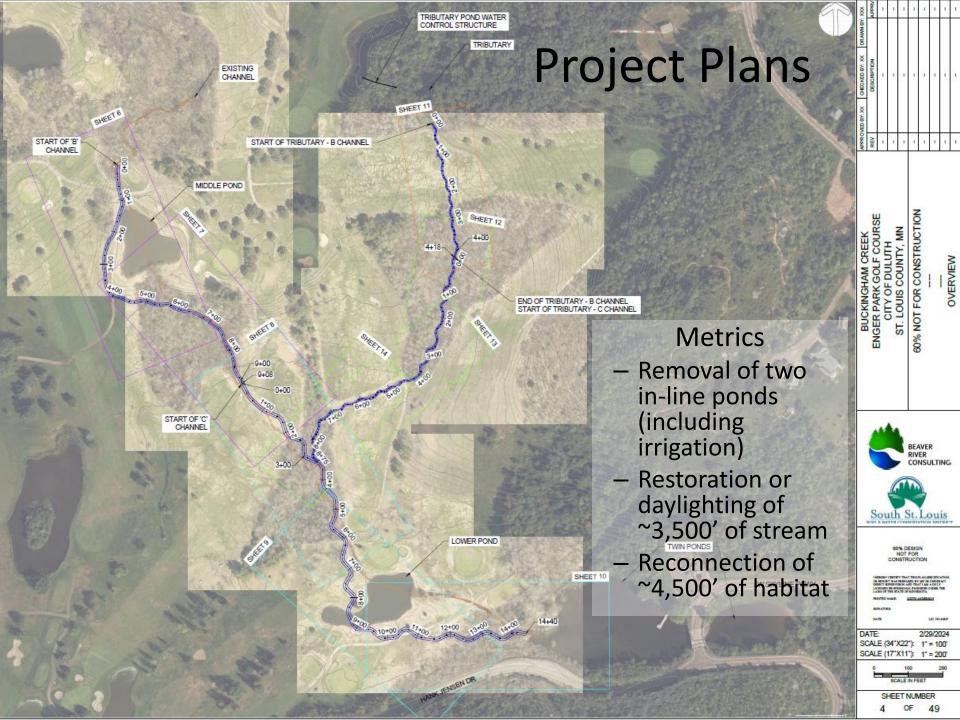


# Project Background

- High priority trout stream restoration
- City of Duluth renovated Enger Park Golf Course in 2024
  - One-time opportunity to achieve significant water quality, habitat, and climate resilience outcomes
- Funding acquired \$1,380,000
  - Design \$50,000 from DNR
  - Design \$120,000 from EPA via DNR (GLRI)
  - Construction \$500,000 from Conservation Partners Legacy (OHF)
  - Construction \$600,000 from EPA via DNR (GLRI)
  - Construction \$110,000 from DNR

# Goals and Objectives

- Goal: Maximize ecosystem services
- Achieved by emulating healthy stream/floodplain ecosystems
  - Eliminate unnatural in-line impoundments
  - Replace undersized culverts
  - Restore natural, meandering form
  - Establish floodplain connectivity
  - Establish native plant communities
  - Create habitat diversity
    - Overhead cover and large wood
    - Riffle-pool or step-pool morphology



## Implementation did not go as planned...

Original Project Timeline - 2024														
	J	F	М	Α	М	J	J	Α	S	0	N	D		
Finalize Design														
Obtain Permits														
Bid Project														
Award Project														
Construction														
Final Completion														

Actual Project Timeline - 2024 and 2025																								
	J	F	M	Α	М	J	J	Α	S	0	N	D	J	F	M	Α	М	J	J	Α	S	0	N	D
Finalize Design																								
Obtain Permits																								
Bid Project																								
Award Project																								
Construction																								
Final Completion																								







































**Before** 

- -Improved trout fishery
- -Unimpaired fish and bug communities
- -More resilient ecosystem
- –Improved golf course aesthetics







**After** 





