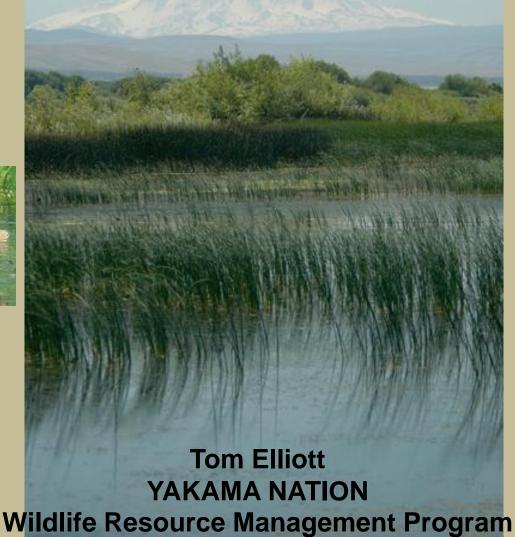
Yakama Riparian & Wetlands Project Wapato Reach











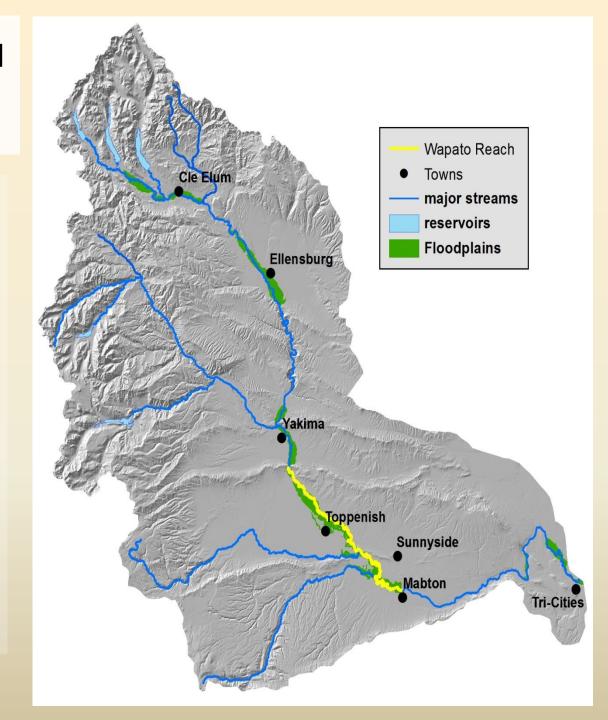






THE WAPATO REACH IS CRITICAL FOR FISH AND WILDLIFE

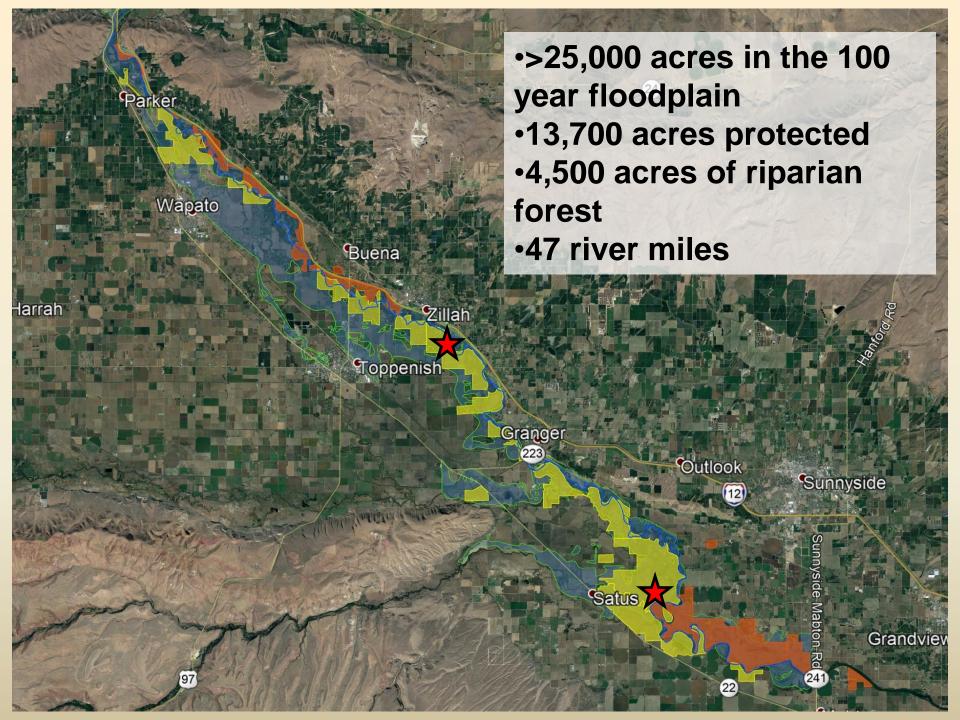
- Migration for all salmon, steelhead, and lamprey, in and out
- Spawning for fall and summer Chinook
- Holding and rearing for Toppenish/Satus steelhead, lamprey
- Abundant deer and furbearing mammals
- Riparian forest supports eagles, songbirds, gamebirds
- Large wetland complexes provide habitat for waterfowl



THE WAPATO REACH IS CRITICAL FOR PEOPLE

- Traditional utilization by Yakama people
- Expansive floodplains provide flood control and sediment storage
- Recreational usefishing, birding, hunting
- Floodplains provide cropland and pasture
- Identified as a priority in multiple basin wide assessments-IP the latest







- Long term, stable funding required
- Commitment to the adaptive cycle
- TAG to provide guidance and coordination

Wapato Reach Action Plan

Yakima River Basin, Washington



Protect and restore a vibrant, intact river system that provides healthy habitats for abundant fish and wildlife populations, protects cultural resources, creates opportunities for recreation, and preserves ecosystem services for local communities.



Wapato Reach Action Plan

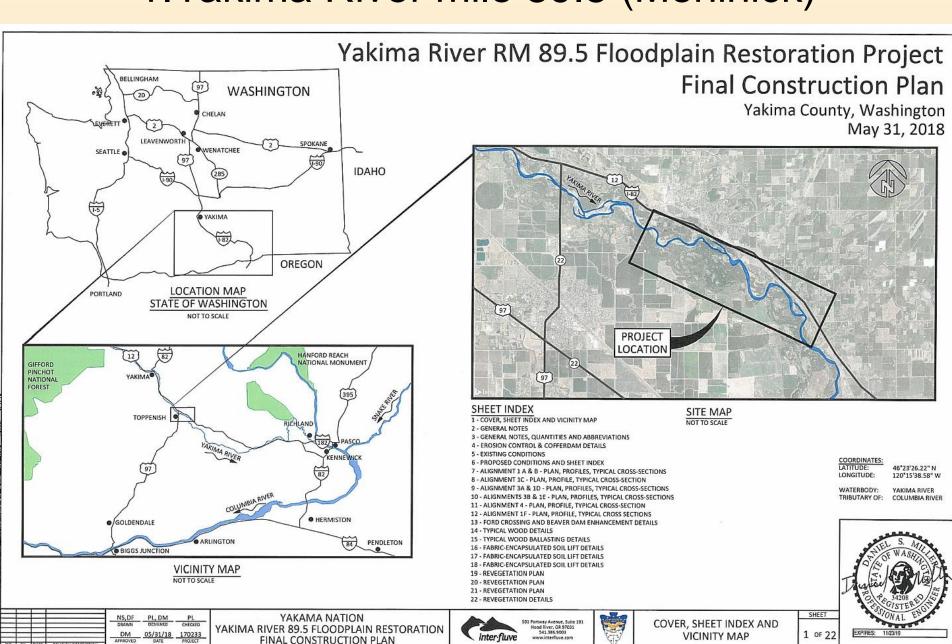
2	2 Goals, Strategies and Objectives	
	2.1	Protect Floodplain Lands from Incompatible Uses
	2.2	Restore Instream, Floodplain, Wetland, and Riparian Habitats
	2.2.	1 Reconfigure Transportation Infrastructure
	2.2.	2 Reconfigure Irrigation Infrastructure
	2.2.	3 Reconfigure Levees, Riprap, and Other Structures
	2.2.	4 Enhance Floodplain Vegetation
	2.2.	5 Improve Instream and Side Channel Habitat Complexity
	2.2.	6 Enhance Wetland Habitat
	2.2.	7 Enhance Upland Habitat
	2.3	Improve Water Management
	2.3.	1 Improve Instream Flows for Habitat Benefit
	2.3.	2 Manage Drains and Return Water for Habitat Benefit

1. Yakima River mile 89.5 (Meninick) Floodplain Reconnection

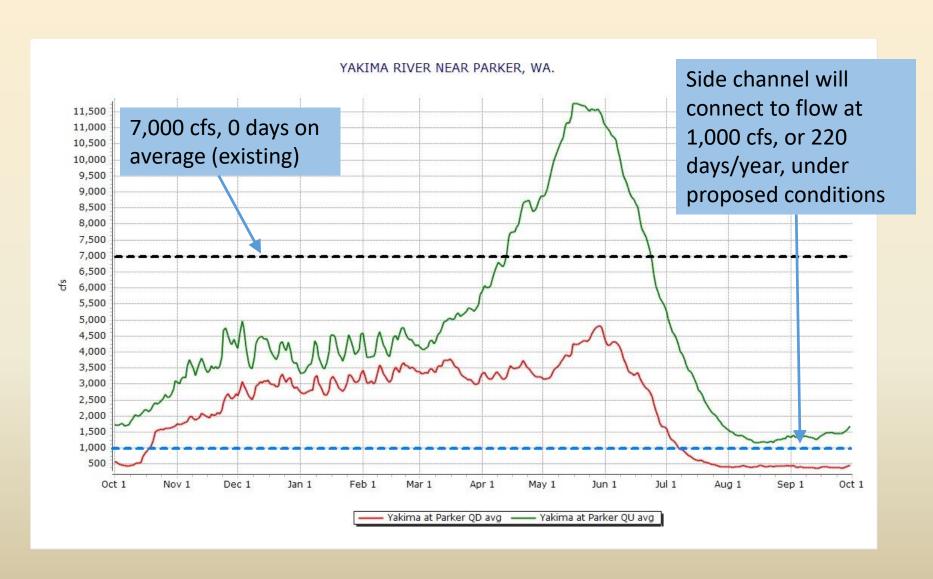
 Design complete, in permitting with U.S. **Army Corps** Reconnects 6 miles of side channel Enhances connectivity for ~800 acres of floodplain IP and BPA funded



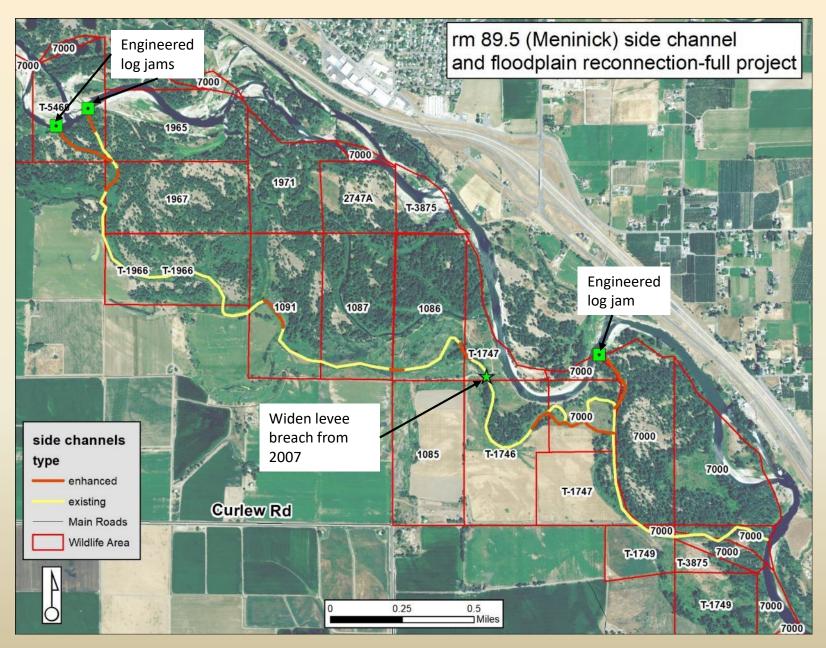
1. Yakima River mile 89.5 (Meninick)



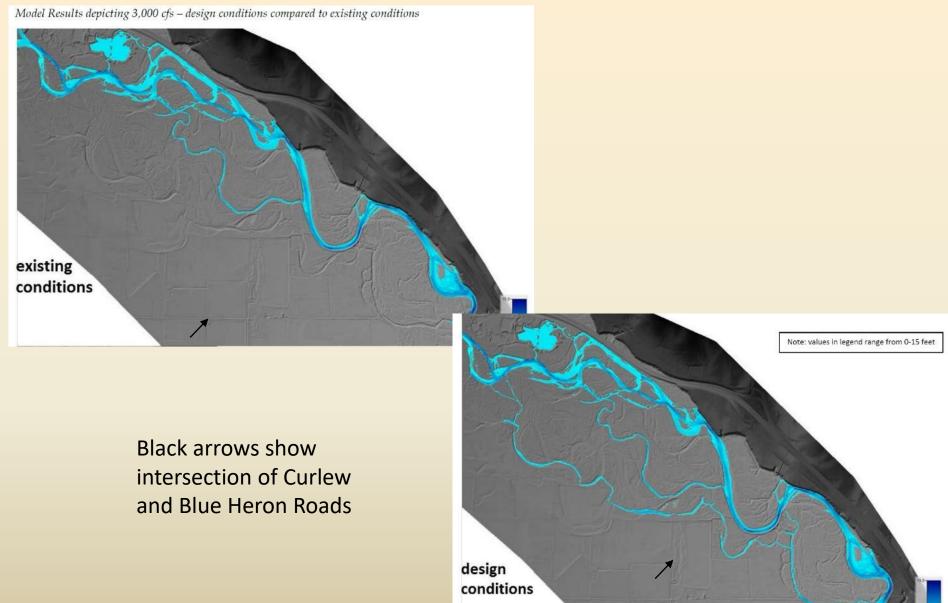
Yakima River at Parker, Regulated vs Unregulated hydrograph



Full project basic design



3000 cubic feet/second (84 times since 1934)

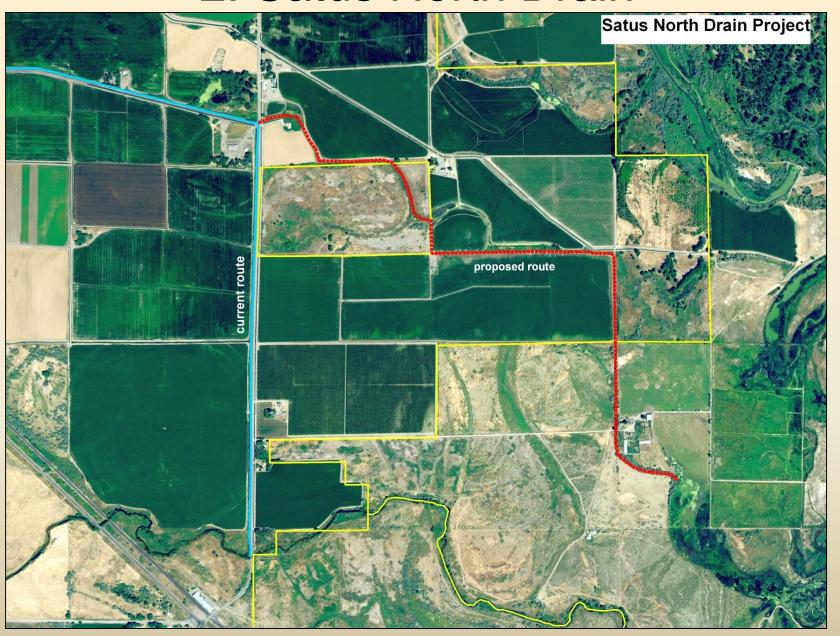


2.North Drain Re-alignment and Wetlands Enhancement

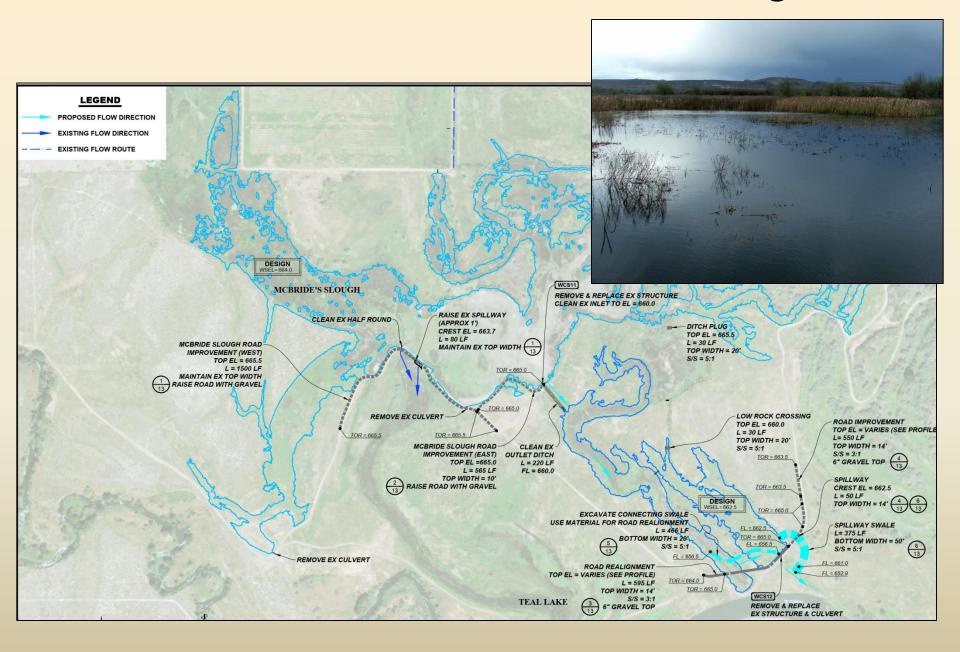


- Increase water supply to Satus wetlands
- •Enhance water management over 1000+ acres
- Design at 90% by Ducks Unlimited, RCPP and BPA funded

2. Satus North Drain



2. North Drain-McBride's Slough



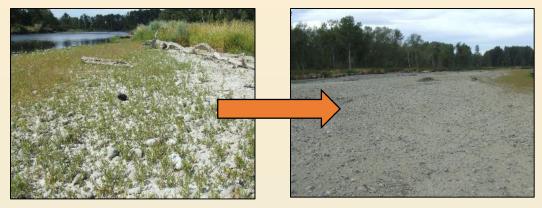
3. Riparian Forest Management

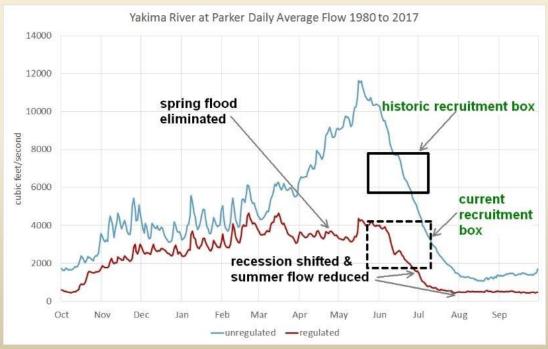
- Goal is to Manage and Restore for Sustainable Cultural and Natural Resource Values for future generations
- Requires defining scope, understanding obstacles (limiting factors?) to sustainable healthy forests, describing strategies for restoration and management

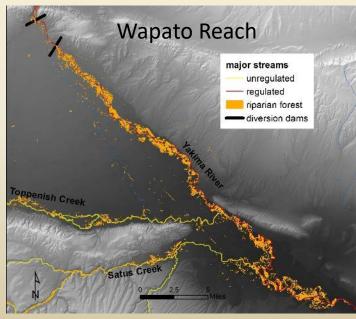


Wapato Reach-Regulation Drives Decline

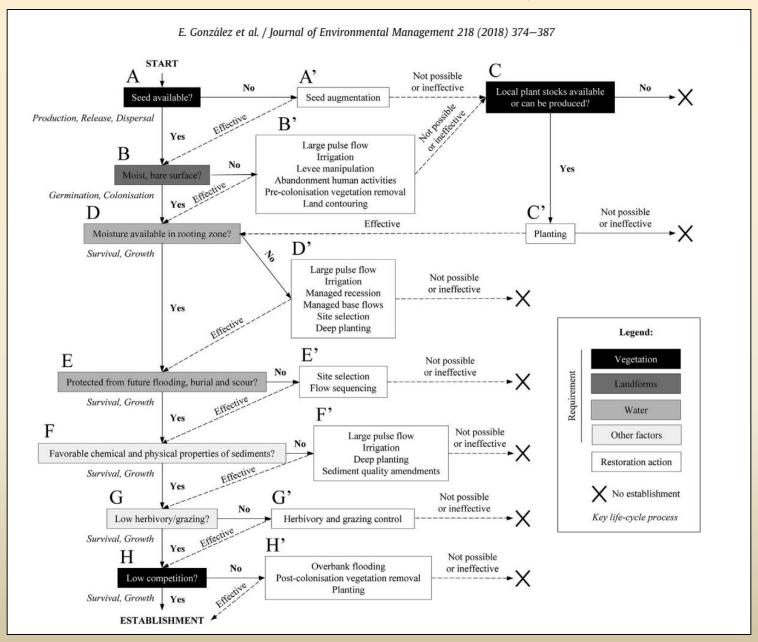
- Observed and documented lack of recruitment
- Seedlings establish too low
- Long-term decline of forest







3. Multiple Strategies



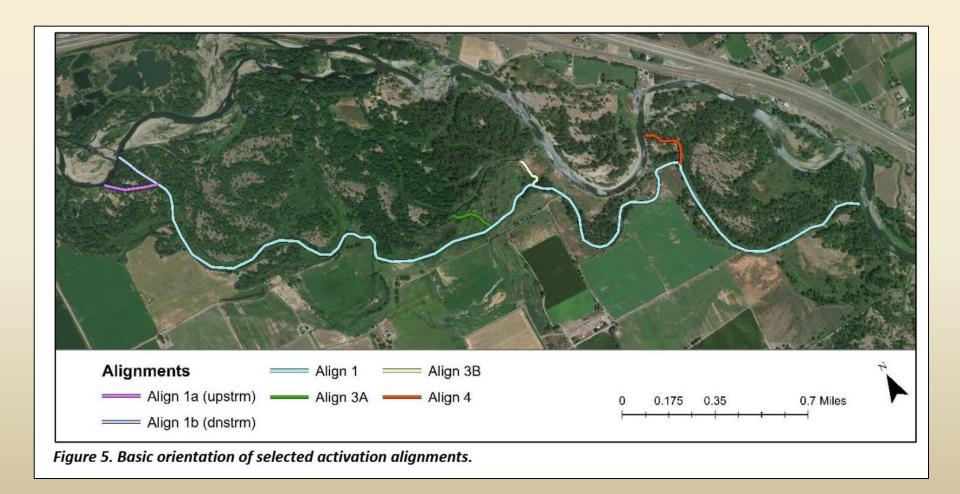
Final Thoughts-Bumps in the Process

- Install 360 yards of rubble bank armor
- •No permit needed!
- •Implementation has gone very smoothly.



Final Thoughts-Bumps in the Process

- Reconnect 6 miles of side channels, 800 acres
- •Spend 4 to 6 months and >\$35,000 for permitting
- Project suffers from extra time and expense



Final Thoughts-Potential Solution

A. COVER PAGE

EPA Region 10 Wetland Program Develop Grant

Domestic Assistance No. 66.461, Funding Opportunity No. EPA-REG10-WPDG-19-01

TITLE:

Yakima River Floodplain Wetlands Mapping and Condition Assessment

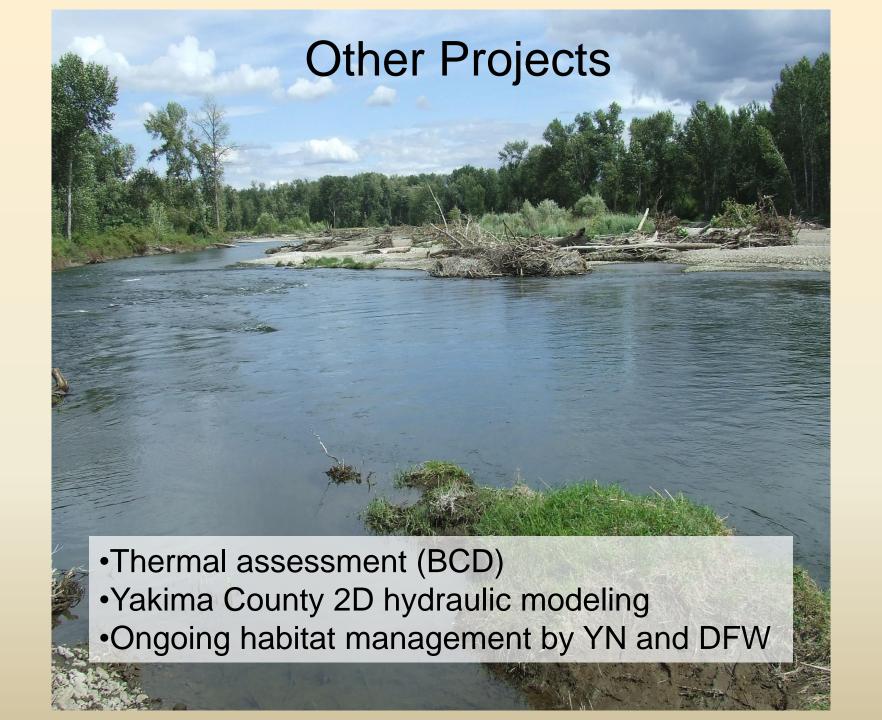
TRACK ONE PROPOSAL

GOALS

- 1. Update the Yakama Wetland Program Plan that expired in 2018
- 2. Address Actions from the EPA Core Elements Framework, described below:



Project Area for Yakima River Wetlands Delineation and Rating 2020-2022



Questions?

