CTUIR Grande Ronde River Basin Proposed/Ongoing Project Areas Catherine Creek Bird Track Springs Rock Creek West Coast Trust Longley Meadows Buffalo Flats Adult Weir Facility MUGGR Grande Ronde Tailings Stephens Forest LLC Reservation boundary Grande Ronde Basin Proposed/Ongoing Project Areas

FY 2018

- Bird Track Springs, initiate
- Rock Creek Phase 3

FY 2019

- Bird Track Springs, complete
- Middle Upper GR Phase 1

FY 2020

- Middle Upper GR Phase 2
- Longley Meadows

FY 2021

- Middle Upper GR Phase 3
- Upper GR Tailings Reach
- Catherine Creek Adult Weir Passage
- Catherine Creek Valley/Node Projects
- Acquisition Planning

Partnership Projects

- Catherine Creek, Hall Ranch
- Catherine Creek, Buffalo Flats

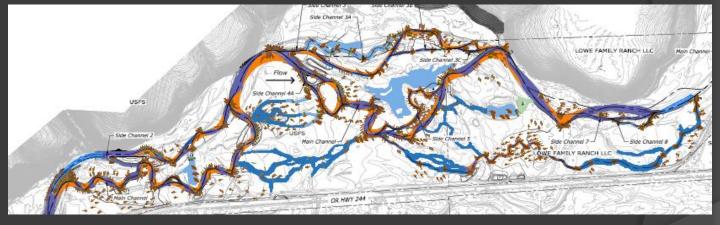
CURRENT PROJECTS



- -4 Mile Project Planning Reach
- -USFS and Private Lands
- Bird Track Construction 2018-2019 (2 mi.)
- -Longley Meadow/Gun Club Construction 2021- 2022 (~1 mi.)

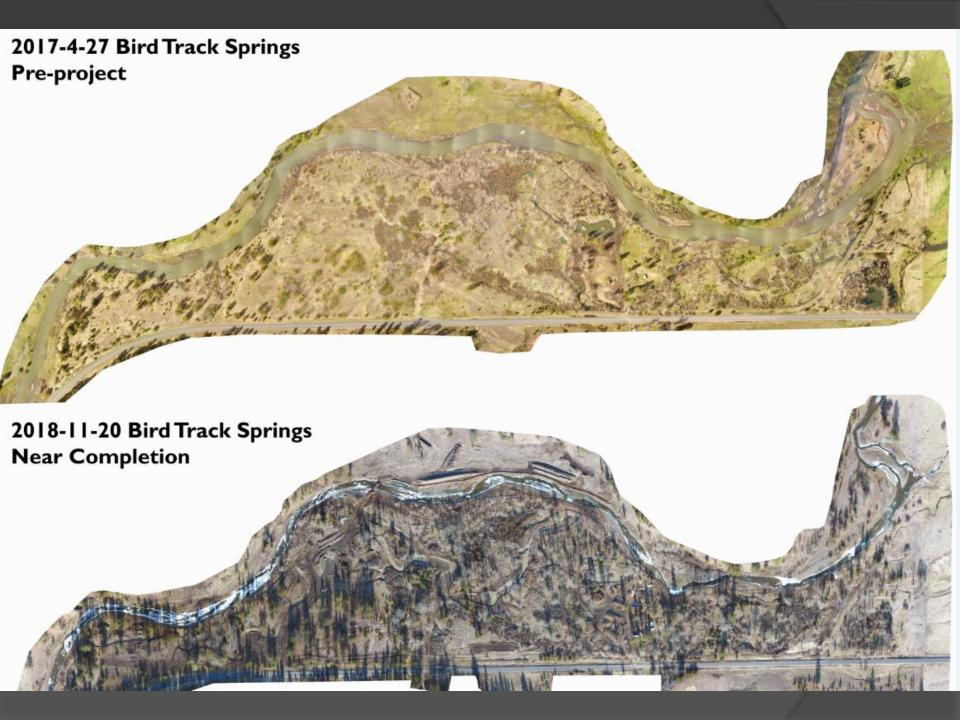
BTS Metrics

- 5,000 ft. main channel
- 9,500 ft. side channel
- 1,200 ft. alcoves
- 2,000 ft. floodplain swales
- 300+ large wood structures
- 3,700 ft. brush mattress
- 228 floodplain wood roughness features

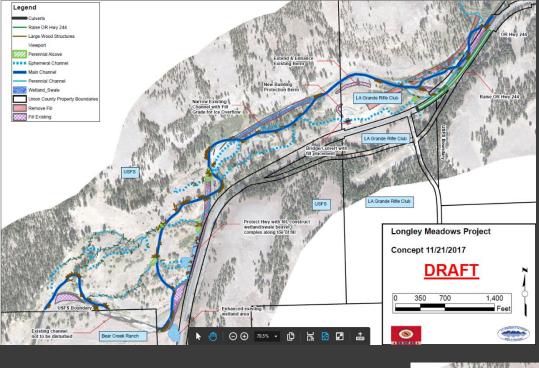




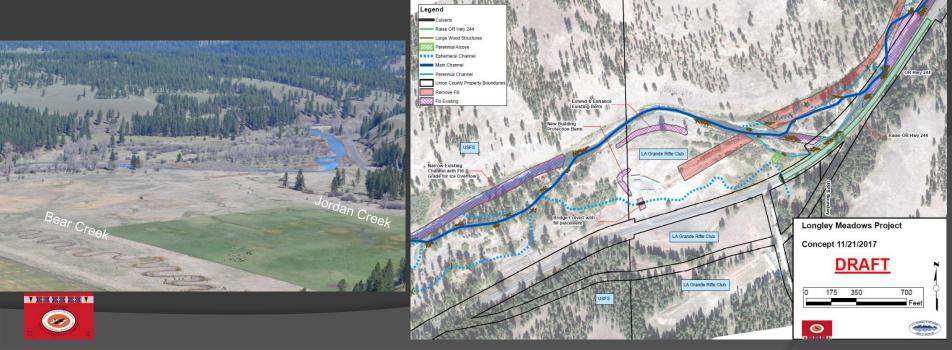








LONGLEY MEADOWS CONCEPT PLANNING

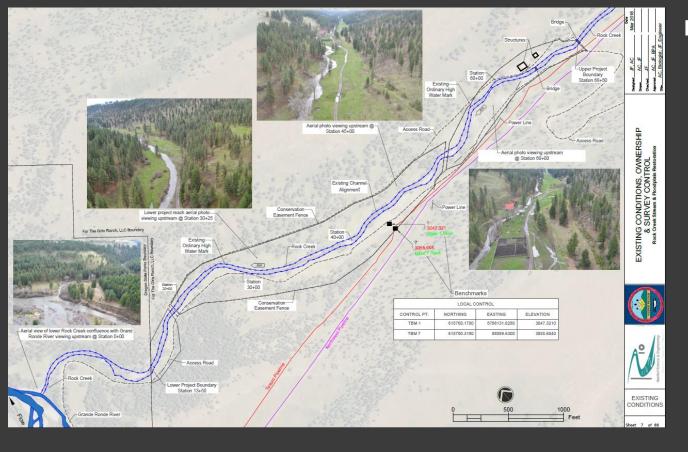


MIDDLE UPPER GRANDE RONDE RIVER Fish Habitat & Floodplain Restoration Project 2018 Project Boundary Spool Cart Cam pground MUGR Phase 2 FY19-20 0.5 Vey Meadows

MIDDLE Upper Grande Ronde River UGR 15

- 8 Mile Project Planning Reach on USFS Lands, Vey Meadows to downstream USFS Boundary
- Construction Planned in 3 to 4 Phases
- Year 1 Construction 2018
- Primarily Large Wood Additions
- Gravel Augmentation
- Ground Based and Helicopter Placement









Rock Creek Fish Habitat & Floodplain Restoration

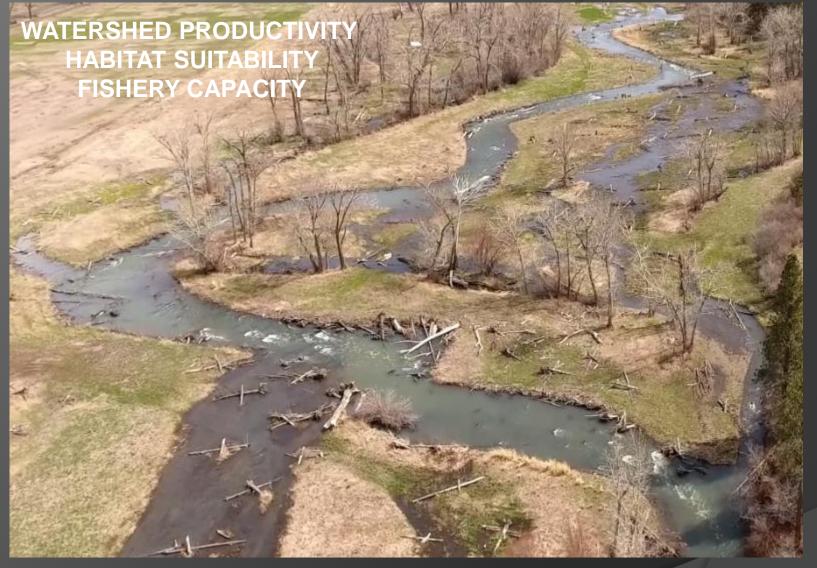
- 1 Mile Project Reach
- Private Land
- -Summer 2018 Construction

Project Metrics

- 4,300 ft. main channel
- 462 ft. side channel
- 1,389 ft. alcove
- -1,928 ft. brush mattress
- 1,833 ft. levee removal
- 5,248 ft. drawbottom road decommissioned
- 53 main channel large wood structures
- 155+ whole trees (channels and floodplain)
- 124+ floodplain roughness wood elements







- Floodplain restoration
- Channel morphology
- Complexity/Diversity (physical, thermal)
- Riparian/wetland communities









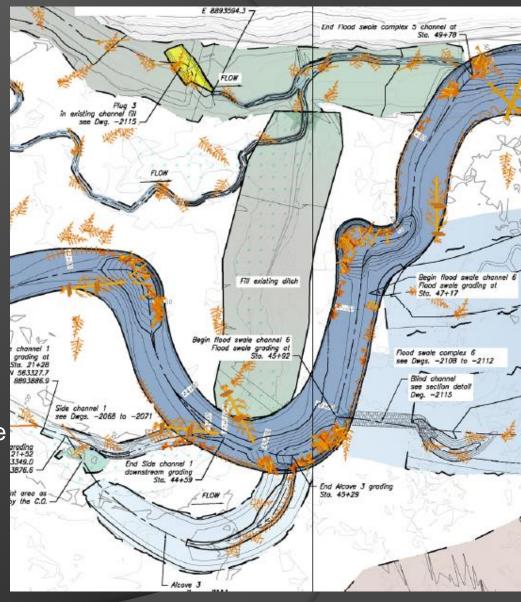






Evolution of Channel Design

- Channel dimension, pattern, and profile
- Floodplains
- Side channels and alcoves
- Micro & macro topography
- Pool radius of curvature







SIDE CHANNELS & ALCOVES

















LARGE WOOD STRUCTURE DESIGN APPROACH/REFERENCES

