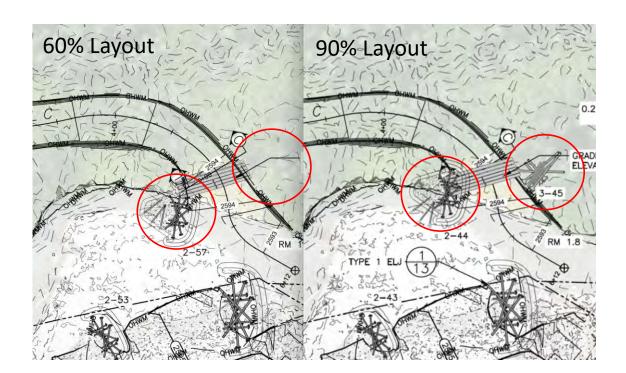
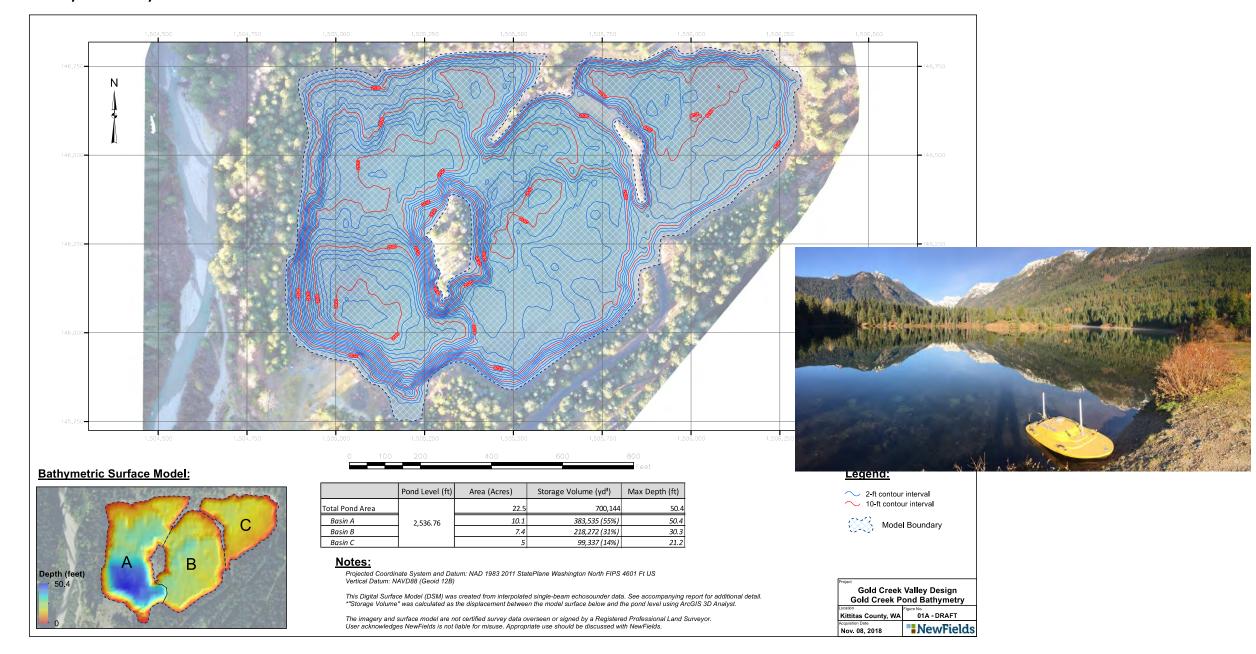


Updated locations and types of proposed instream structures

- to reflect the current condition of the channel
- Limit constricting the channel below 60-ft to reduce likelihood of channel spanning logjams from forming
- Minor adjustments at side channel inlet locations, including additional upstream structure to limit widening potential



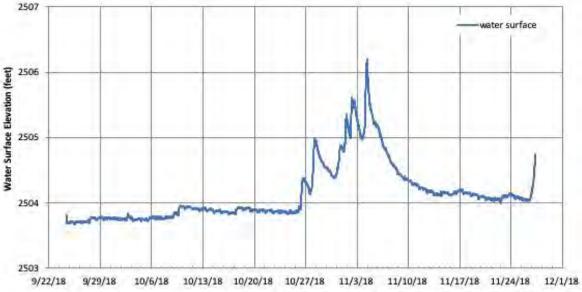
Bathymetry data collection at Gold Creek Pond





Gold Creek Frontage Road Hydrologic Monitoring

- Installed groundwater and surface water monitoring network
 - 7 groundwater wells (10-ft deep)
 - 2 additional WSDOT wells
 - 11 surface water gages
 - Collecting data from Fall 2018 Fall 2019







OVERVIEW

Enhance bull trout habitat on a reach of river that dewaters most summers

- Improve the quality of habitat
- Increase the available habitat for rearing bull trout when dewatering occurs

ASSESSMENT

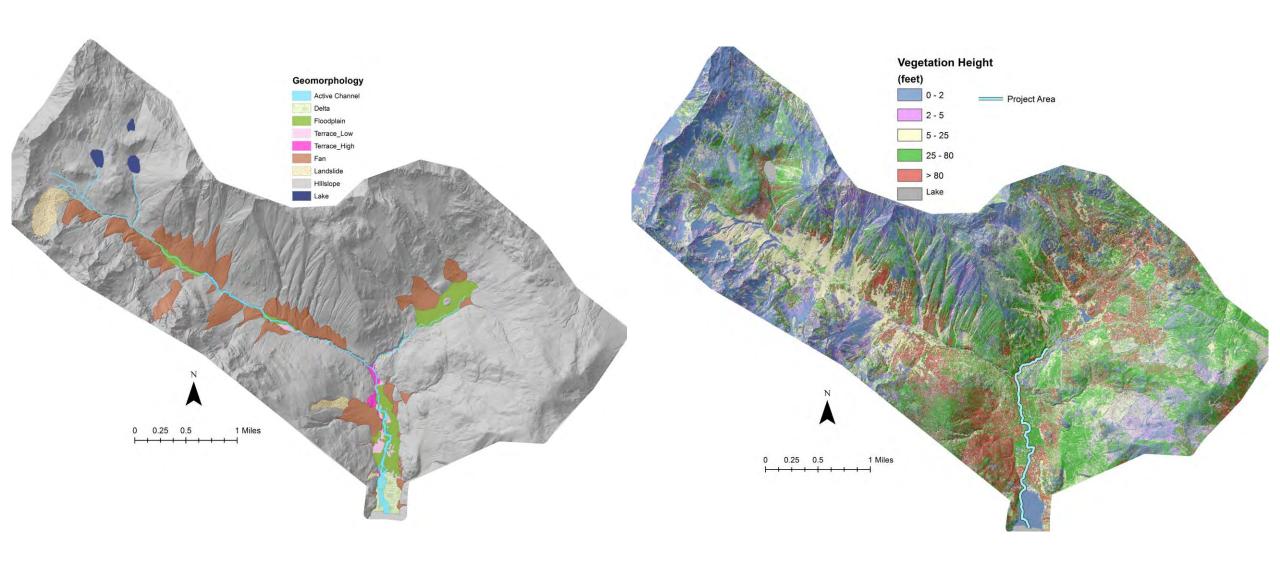
Installed piezometers

Collected flow measurements

Obtained LiDAR

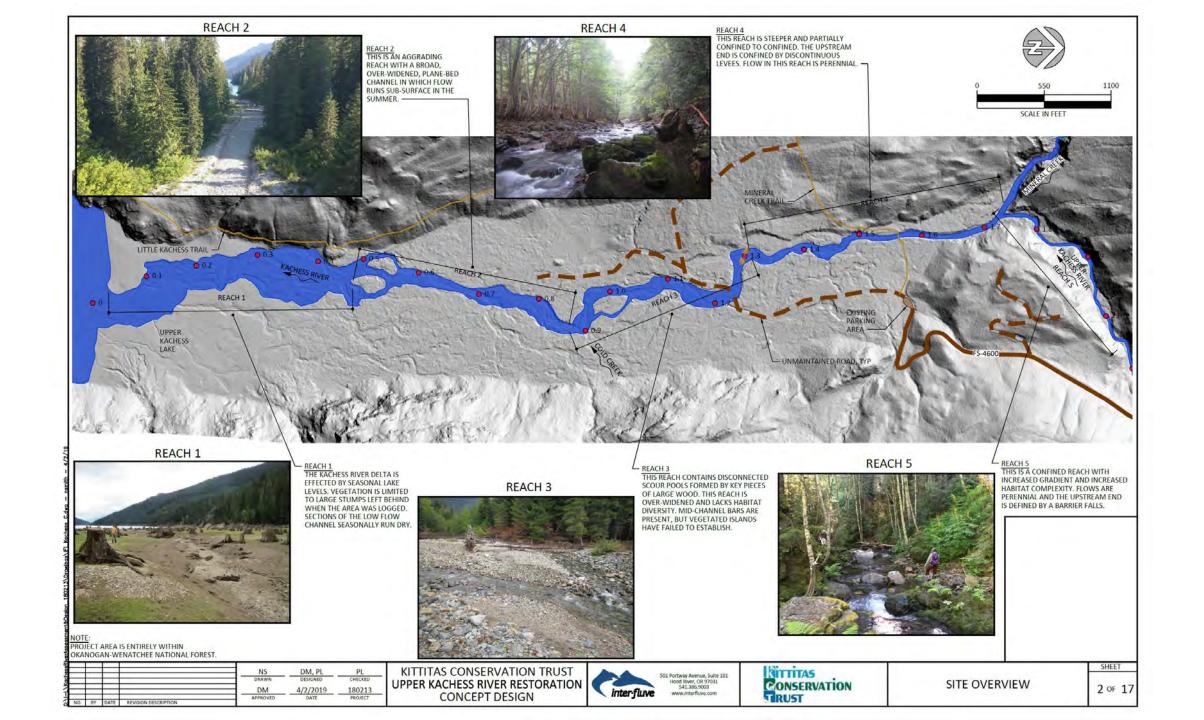
Completed ground survey

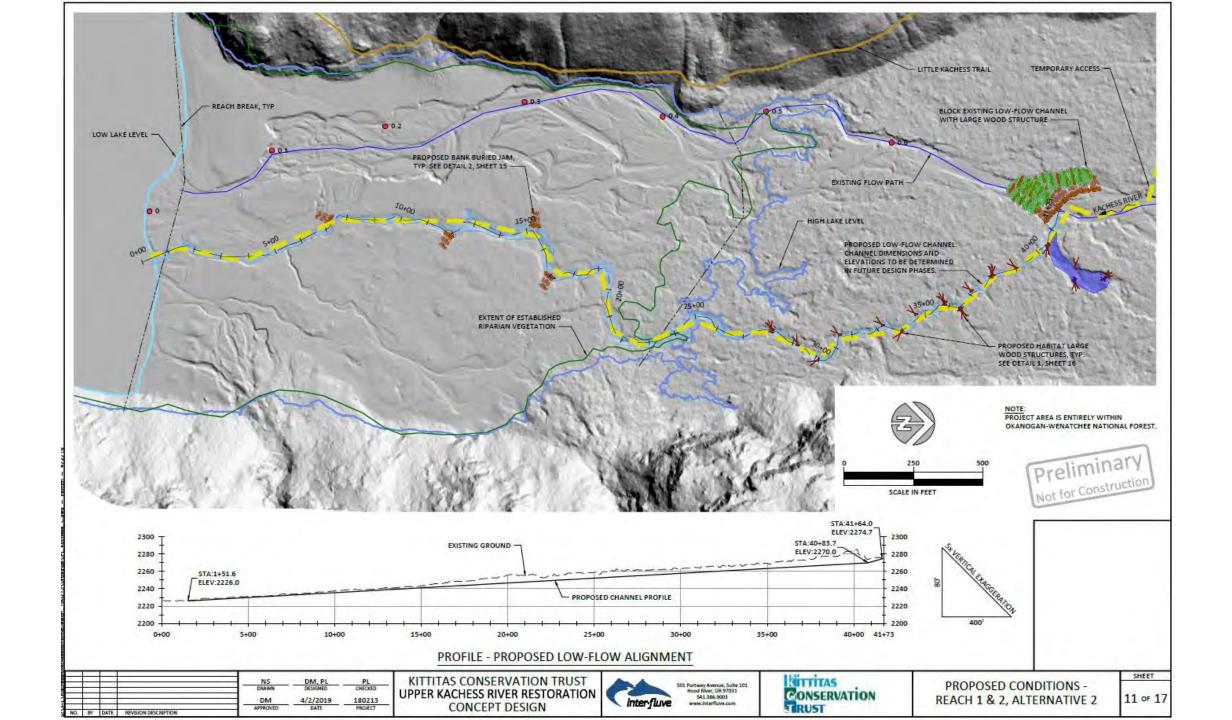


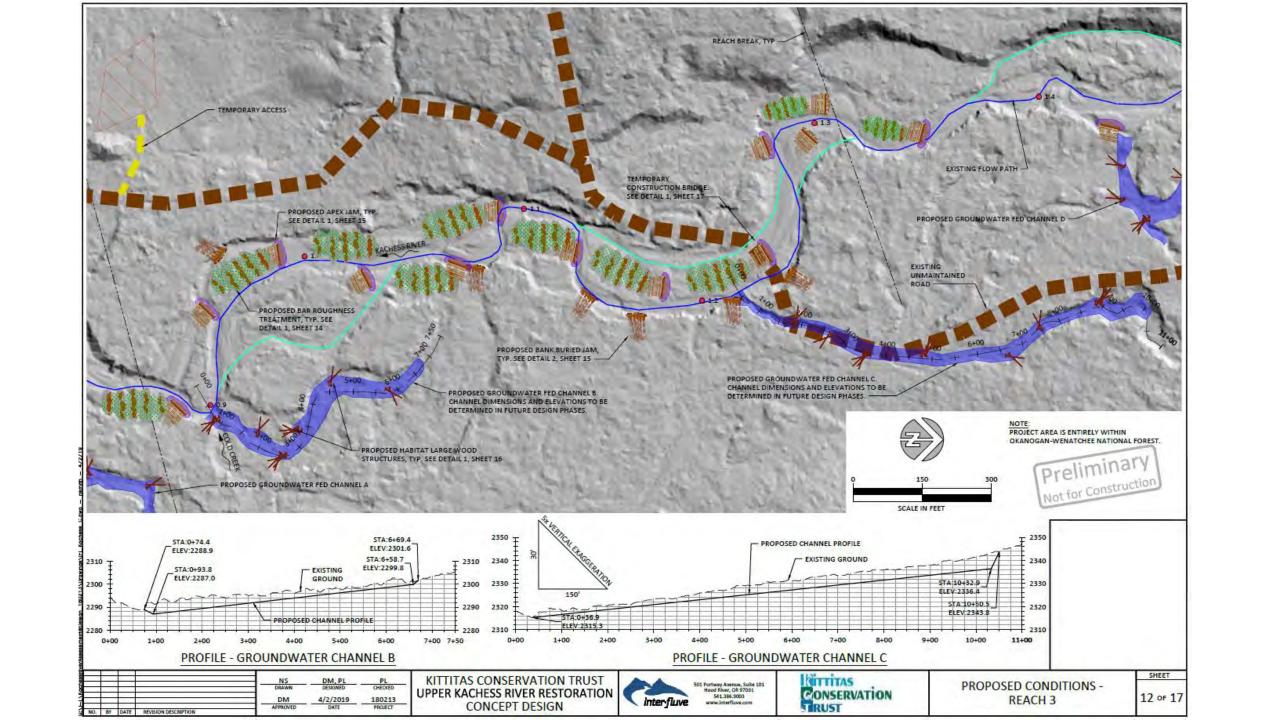


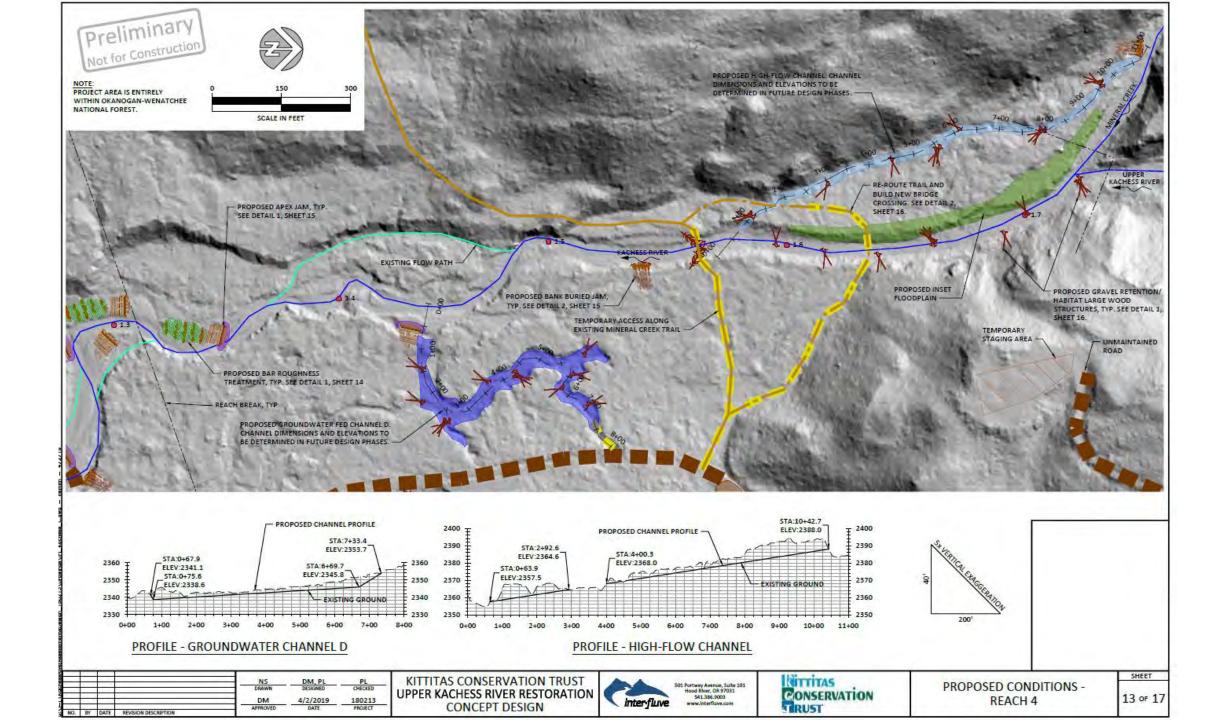
GEOMORPHOLOGY

VEGETATION











NEXT STEPS

Data collection | Permitting | Final Designs

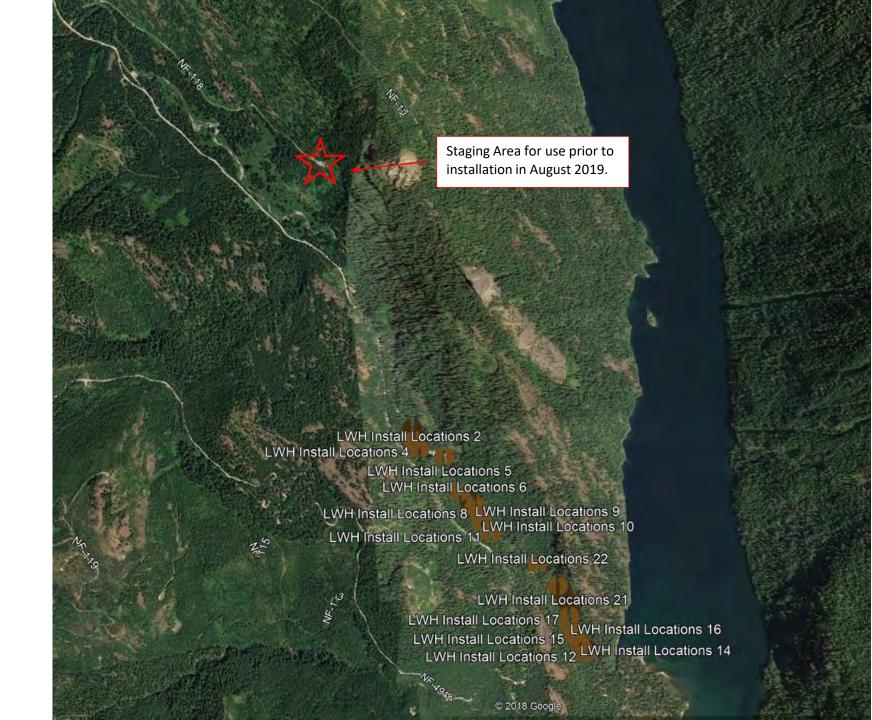


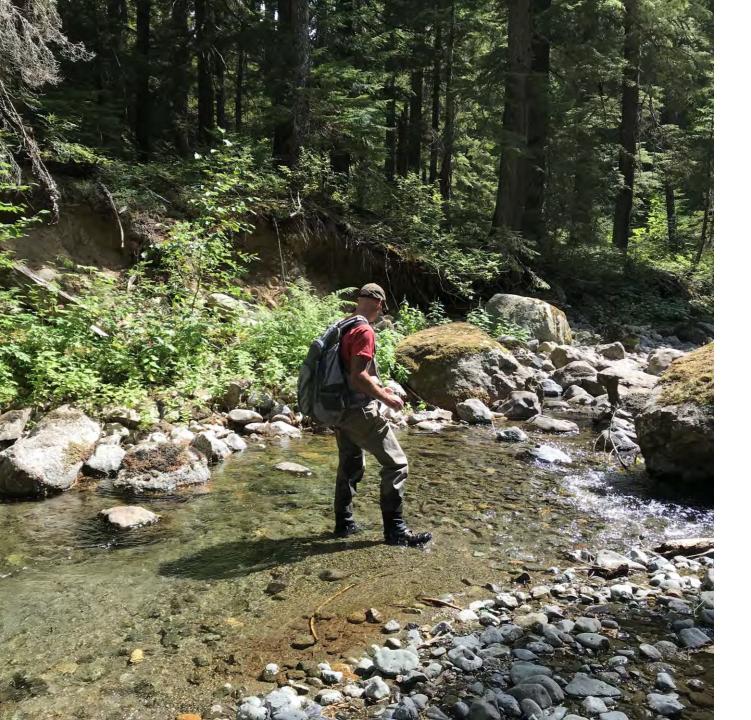
OVERVIEW

Placement of 360 pieces of wood to improve bull trout habitat

High velocity reach that has deficiency of large woody habitat

Anticipated to take 2 days to implement



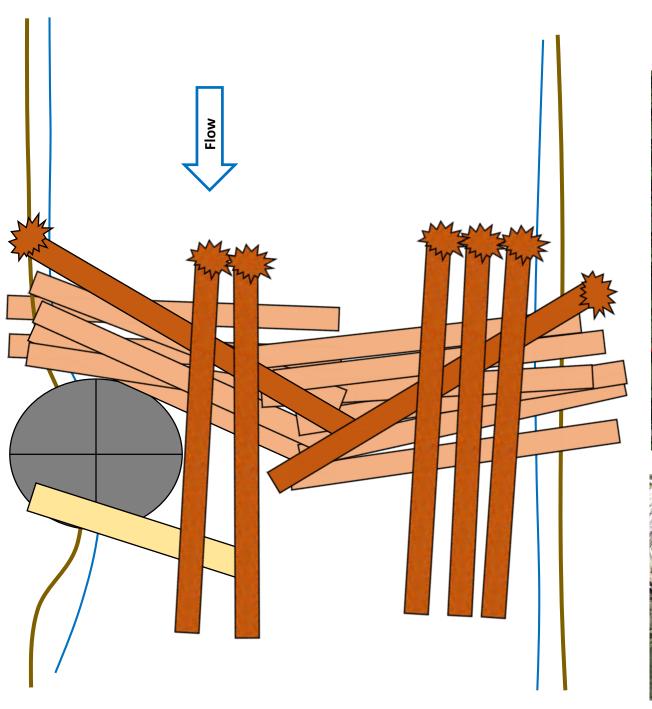


PROJECT DESIGN

WDFW Survey Data

Collaboration with US Fish and Wildlife Service (USFWS) and Forest Service staff

Coordination with the Yakima Basin Bull Trout Working Group

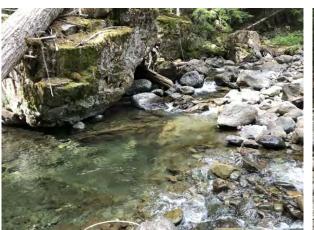


LWH Installation Location 19

Cut logs = 12 Logs with rootwads = 7









PLANNING

Coordinating with Forest Service to obtain hazard trees and prevent insect infestation

Staging area and helicopter refueling site

Permitting almost complete





NEXT STEPS

Obtain all needed wood for project

Complete all permitting

Coordinate with Yakama Nation on helicopter timing

Implementation August 2019!!!

