Upper Van Zandt South Fork Restoration Project Community Workshop

January 29th, 4:30 p.m. Van Zandt Community Hall



WORKSHOP AGENDA

- 1. Welcome and Introduction
- 2. Project Status Update
- 3. Design Concepts Overview
- 4. Break
- 5. Facilitated Discussion: Design Concepts
- 6. Wrap Up and Next Steps

PROJECT GOALS

• Improve habitat conditions for threatened South Fork Nooksack early Chinook (chinook) salmon and reduce flood risk throughout the area.

PROJECT GOALS (CONT.)

• Key concerns for habitat improvement include high water temperature, low habitat diversity, and key habitat features such as deep pools with woody cover.







PROJECT GOALS (CONT.)

• Avoid any increase to flood and erosion risk to properties and infrastructure in the project reach.





OBJECTIVES

Restore the SF Nooksack River near Van Zandt (RM 1.3-3) by installing a series of Engineered Log Jams (ELJs), while

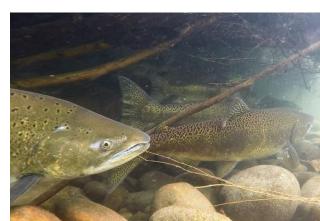
exploring other restoration alternatives.

- 1. Create or encourage a variety of types of pools
- 2. Identify opportunities to improve edge habitat with wood
- 3. Explore modifications to non-functioning levees/bank protection
- 4. Work with BNSF to improve habitat conditions along railroad
- 5. Improve habitat in thermal refuge areas
- 6. Expand and diversify riparian vegetation



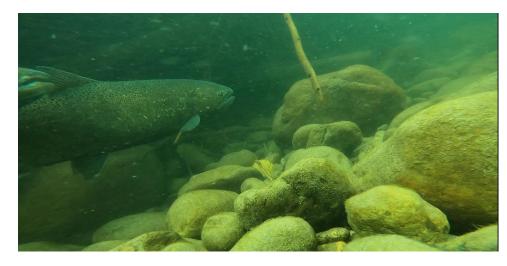






1. CREATE OR ENCOURAGE A VARIETY OF TYPES OF POOLS











2. IDENTIFY OPPORTUNITIES TO IMPROVE EDGE HABITAT WITH WOOD







3. EXPLORE MODIFICATIONS TO NON-FUNCTIONING LEVEES/BANK PROTECTION



4. WORK WITH BNSF TO IMPROVE HABITAT CONDITIONS ALONG RAILROAD



Source: https://www.bnsf.com/news-media/news-releases/newsrelease.page?reIId=bnsf-railway-announces-2021-economic-development-results



5. IMPROVE HABITAT IN THERMAL REFUGE AREAS







6. EXPAND AND DIVERSIFY RIPARIAN VEGETATION









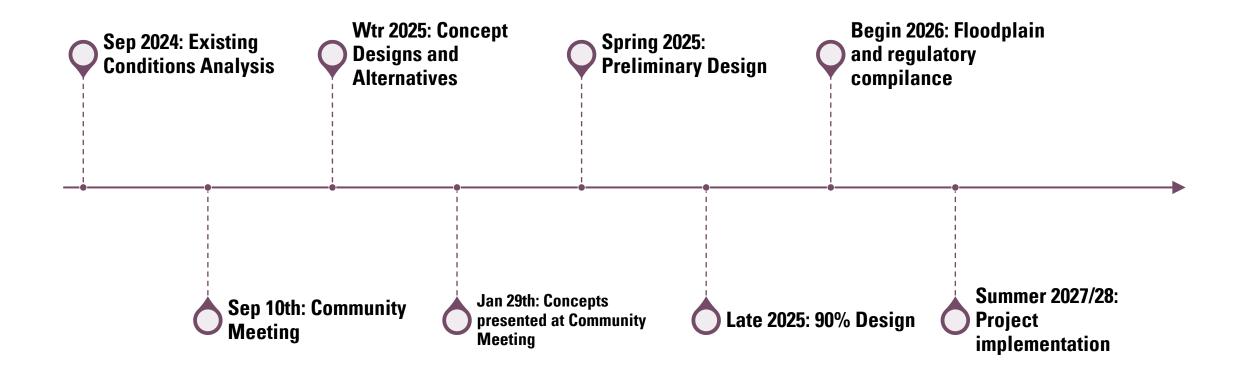


PROJECT APPROACH

- Collaboratively develop project designs that prioritize habitat benefits and address landowner needs.
- Work with landowners to identify access locations.
- Conceptual Design reviewed by stakeholders and landowners.



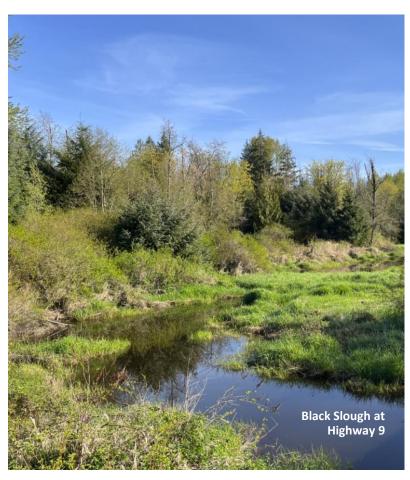
PROJECT TIMELINE



ENGAGEMENT TO DATE



DESIGN CONCEPTS OVERVIEW



Three concepts that build from each other:

- Concept A: Instream focus
- Concept B: Instream + targeted off channel improvements
- Concept C: Instream + expanded valley scale opportunities

KEY ELEMENTS IN DESIGN CONCEPTS

Design elements seek to address:

- Elevated water temperatures
- Lack of habitat diversity
- Lack of key habitat quantity
- Elevated presence of fine sediment
- Decreased stream flow



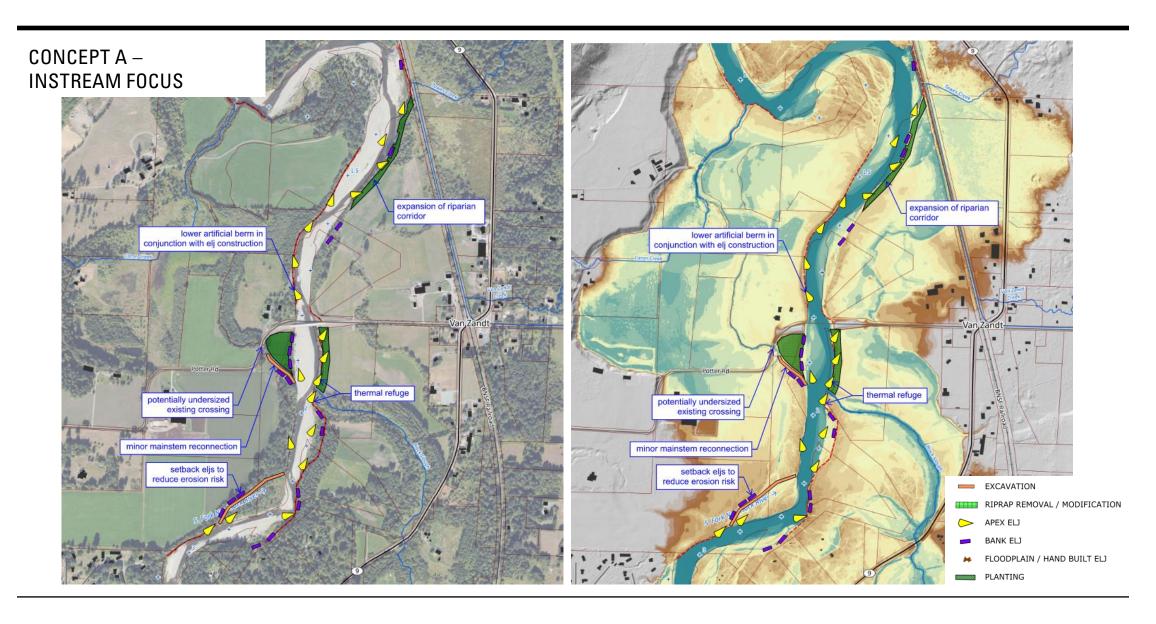


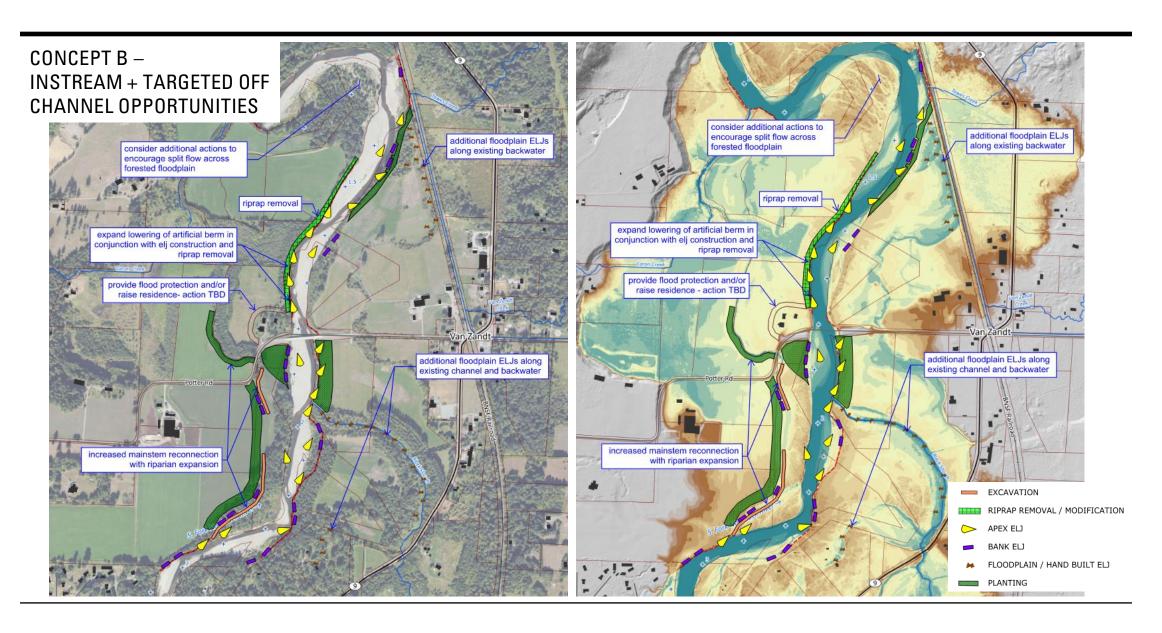


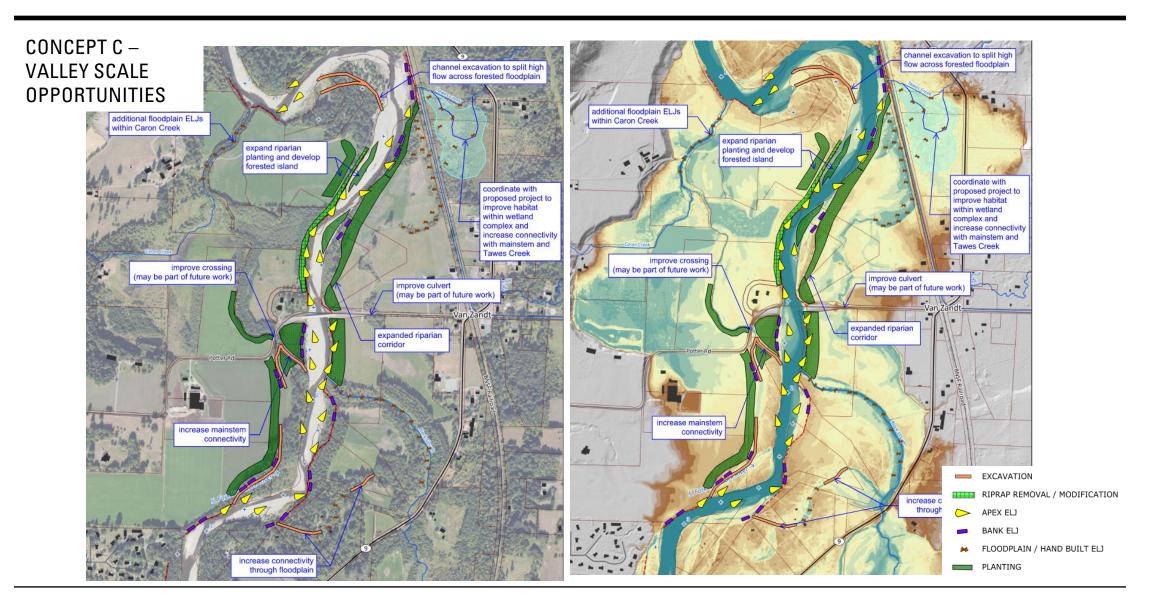


★ FLOODPLAIN / HAND BUILT ELJ

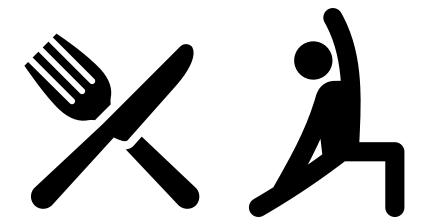
PLANTING







BREAK





DISCUSSION: DESIGN CONCEPTS

WRAP UP AND NEXT STEPS

- 1. Lummi will update the project website with summary notes by the end of February
- 2. Check for updates on the website: https://www.lummi-nsn.gov/s/



