Landowner Partnerships: Preparing for Anadromy in the White Salmon and Other Watershed Projects

Presented by

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Underwood Conservation District

Presentation Overview

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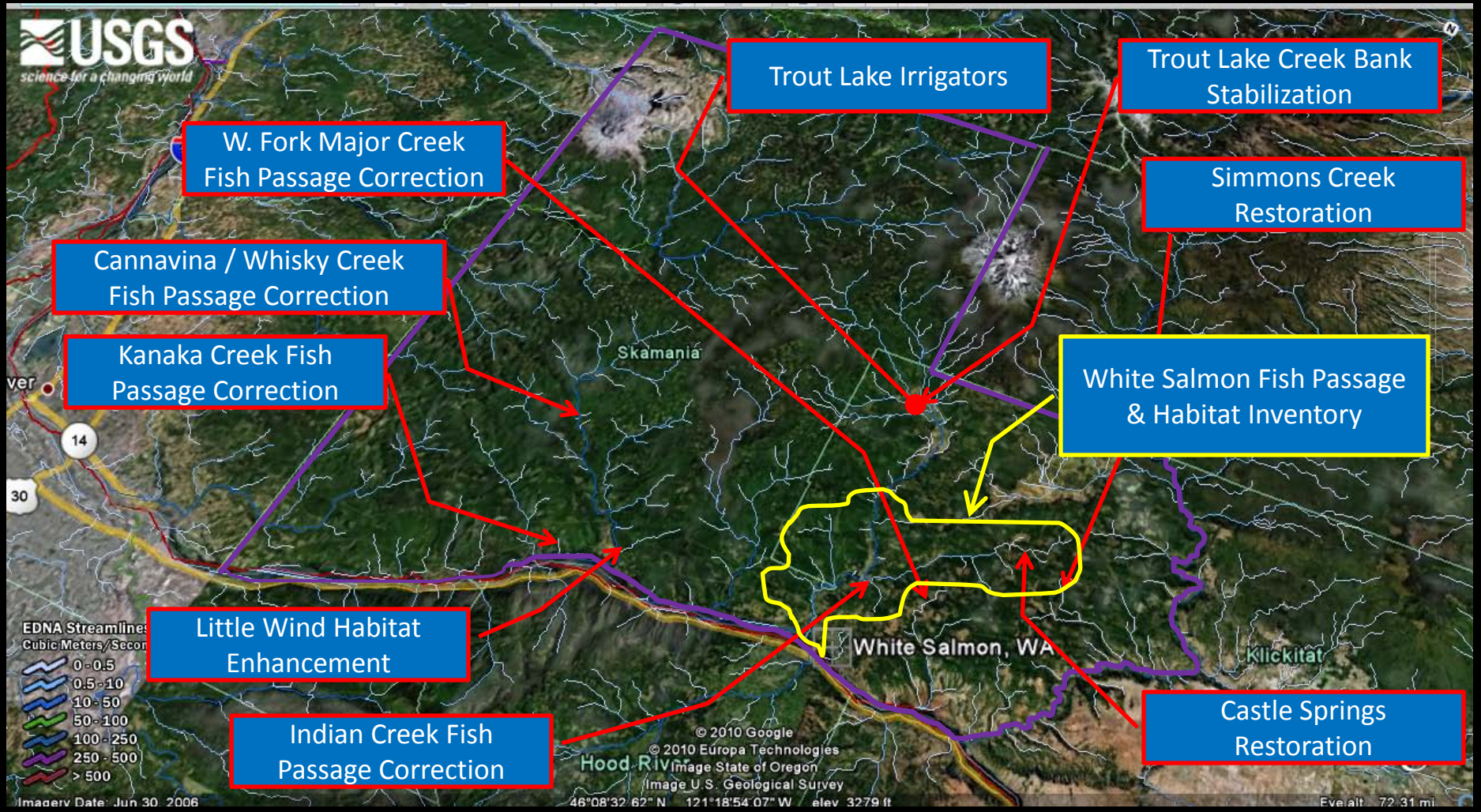
Underwood Conservation District



UCD's Mission is "to enhance the level of natural resource stewardship for landowners, managers and resource users in the district."

Project Name: Anderson-Pearson Bank Stabilization

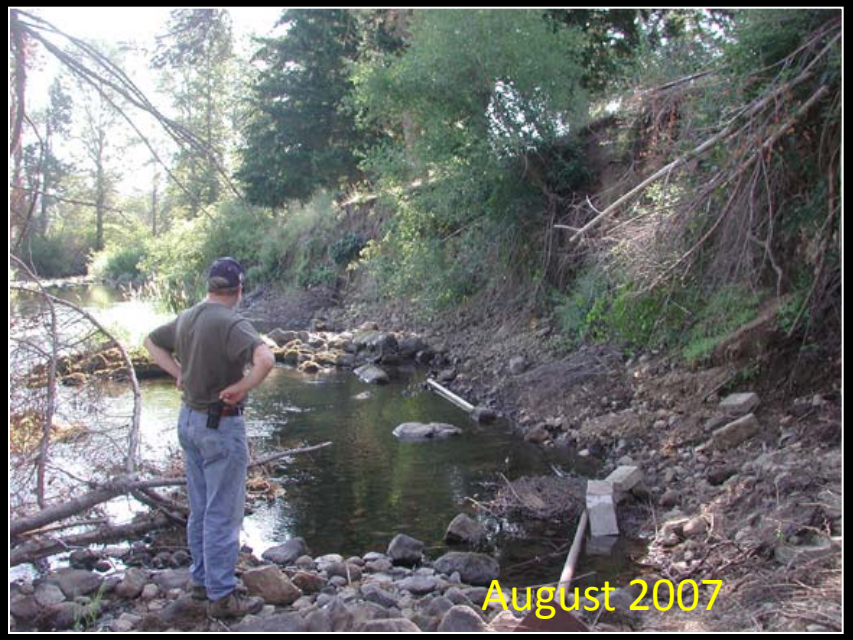
Partners/Funders: Pearson, Anderson, Ecology, WSCC, Clifton (PE), Cleary (PE)

Project Location: Trout Lake Creek, White Salmon River watershed

Goals: Stabilize an eroded streambank, enhance habitat.

Actions: Reduce soil saturation from nearby irrigation canal, construct large wood structure & plant w/ native, locally derived woody vegetation.

Status: Constructed and planted 2009. Being monitored.



Project Name: Simmons Creek Restoration

Partners/Funders: Hancock Forest Management, SRFB, WSCC, MCFEG, Cleary (PE), Clifton (PE), Meagher (PE)

Project Location: Simmons Creek, Snyder Creek Subbasin, Klickitat River watershed

Goals: Stabilize channel incision & reconnect channel w/ historic floodplain, improve flows.

Actions: Construct series of 'check dam' channel roughness structures & plant slopes w/ native woody vegetation.

Status: Construction began in 2009 and is scheduled to continue in 2010.

Project Name: Castle Springs Restoration

Partners/Funders: Hancock Forest Mgt, USFWS, WSCC, Yakama Nation, Conley, Meagher

Project Location: Castle Springs, Upper Rattlesnake Creek, White Salmon River watershed

Goals: Prevent further channel incision, restore riparian vegetation, and improve flows.

Actions: Placement of series of wood and rock 'checkdams' & riparian planting.

Status: Currently in design phase. Construction to begin in 2010.

Project Name: Little Wind Habitat Enhancement

Partners/Funders: Gundersen, BPA, WDFW, USGS, USFS, CRGNSA, NOAA, Ecotrust

Project Location: Lower 0.5 mile of Little Wind River, Wind River watershed

Goals: Enhance juvenile overwintering & adult holding / spawning habitat for steelhead, Coho and fall Chinook.

Actions: Increase LWD, confluence thalweg channel depth, pool abundance & depth, side channel length, & floodplain connection.

Status: Preliminary planning stage.

Project Name: Trout Lake Irrigation

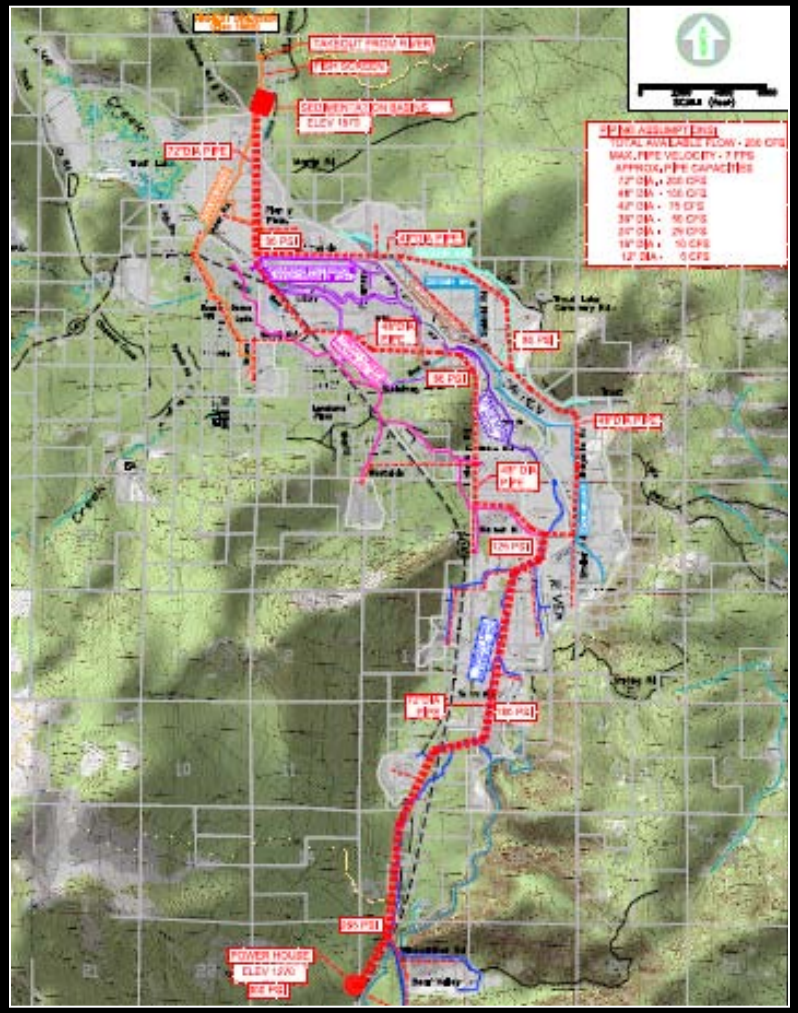
Partners/Funders: WSCC, CRMP, Klickitat County EDA

Project Location: Trout Lake Valley, White Salmon River watershed

Goals: Install fish screens, conserve water, increase irrigation water reliability, produce hydropower

Actions: Potentially enclose 8 separate ditch systems into a consolidated, piped system with fish screens.

Status: UCD facilitates monthly irrigators meetings (since 2008), recently received funding to conduct Reconnaissance Study.



Project Name: W. Fork Major Creek Fish Passage Correction

Partners/Funders: Mt. Brook Partnership, WDFW, DNR, FFFPP, Powers (PE)

Project Location: W. Fork Major Creek, Major Creek watershed

Goals: Provide fish passage

Actions: Excavate road crossing prism, remove/dispose culvert, restore channel function

Status: Preliminary planning. Permitting & construction slated for spring & summer 2010.

Project Name: Kanaka Creek Fish Passage Correction

Partners/Funders: Damian, WDFW, DNR, FFFPP, Powers (PE)

Project Location: Kanaka Creek

Goals: Provide fish passage

Actions: Excavate road crossing prism, remove/dispose culverts, restore channel function

Status: Preliminary planning. Permitting & construction slated for spring & summer 2010.

Project Name: Whisky / Cannavina Creek Fish Passage Correction

Partners/Funders: Skamania County, Punton, Shumsky, Longview Timber, American Rivers, NOAA, Inter-Fluve, Tenneson Engineering

Project Location: Whisky Creek & Cannavina Creek, Wind River watershed

Goals: Provide fish passage

Actions: Engineer & design fish passage correction at two county road crossings.

Status: Design phase has been initiated.

Project Name: Indian Creek Fish Passage Correction

Partners/Funders: Klickitat County, McIntyre, SDS, USFWS, Yakama Nation, Inter-Fluve, Tenneson Engineering

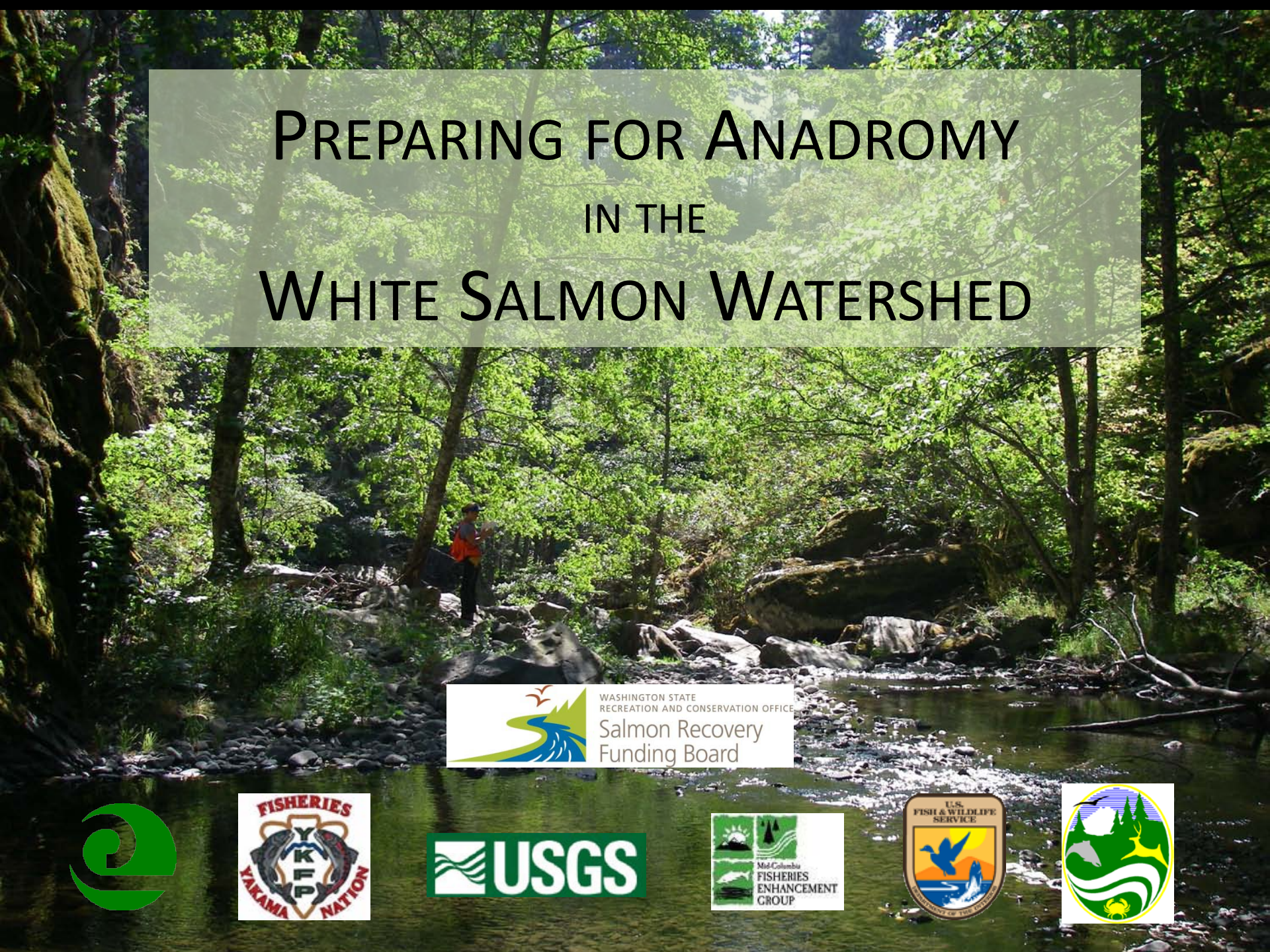
Project Location: Indian Creek, near Rattlesnake Creek confluence, White Salmon River watershed, Klickitat County, WA

Goals: Provide fish passage

Actions: Engineer and design fish passage correction.

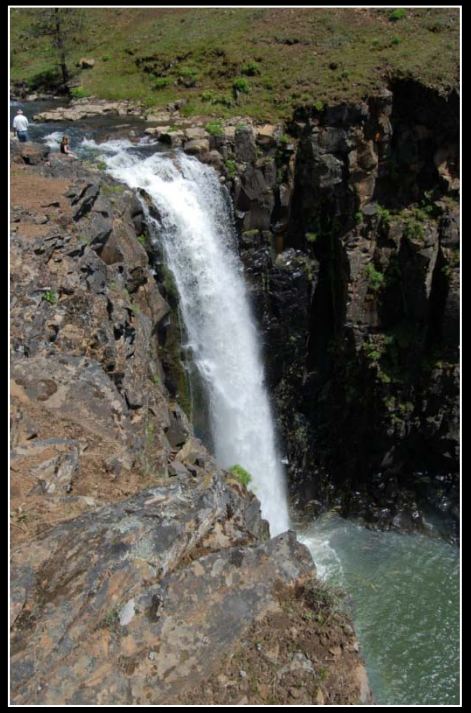
Status: Design phase has been initiated.

Preparing for Anadromy in the White Salmon Watershed



Goals

- Fish passage barrier assessment and prioritization
- Aquatic and riparian habitat survey
- Streamside landowner outreach
- Identification and development of voluntary conservation & restoration projects
- Synthesis of information regarding the potential anadromous portion of the White Salmon Watershed
- Preparing for anadromy in the White Salmon!

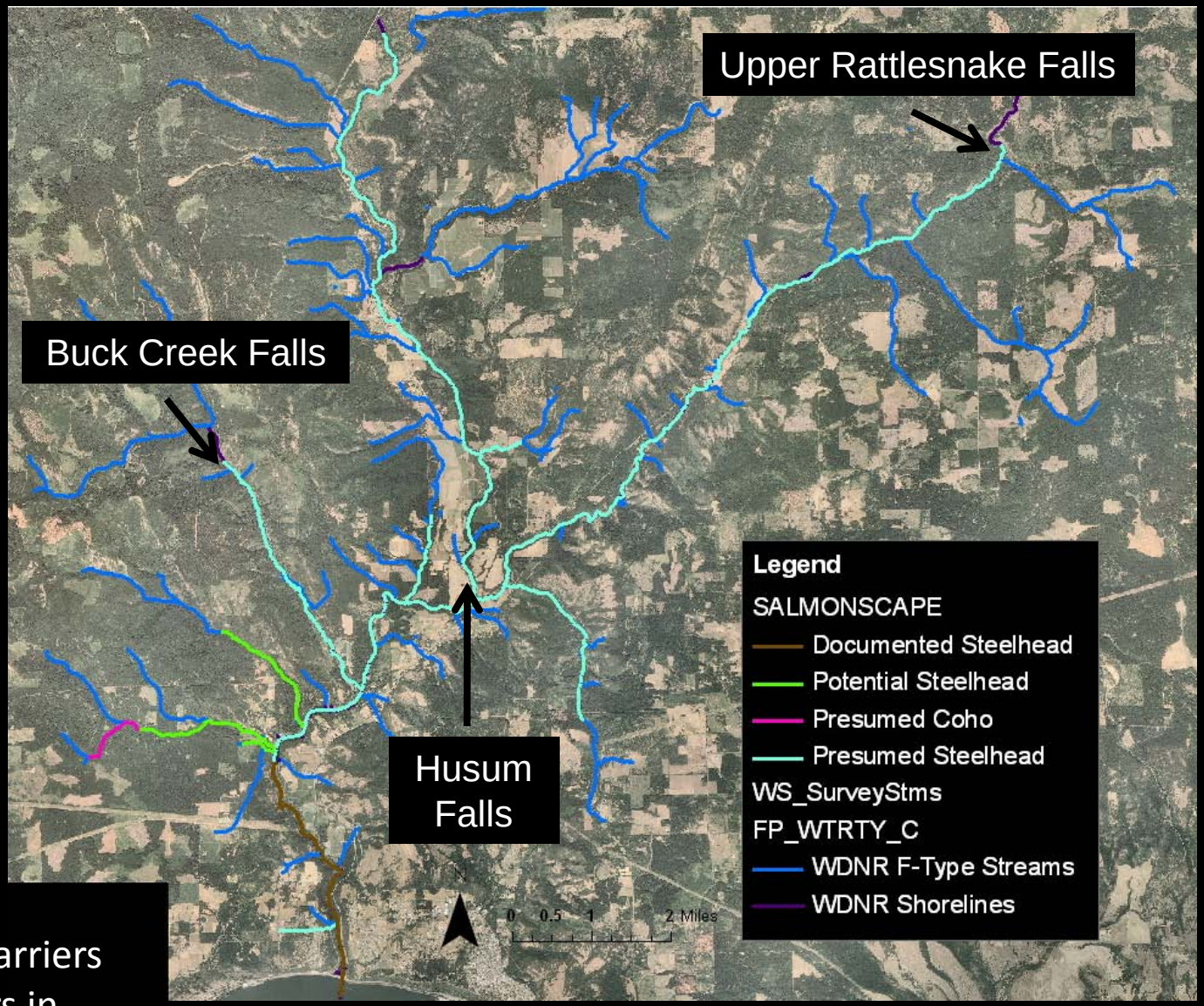


Project Area

• Extends from the mouth of the White Salmon River to the end of potential anadromous fish habitat.

• According to WDFW *Salmonscape* & WDNR "F" type stream layers, there are a total of 55.3 miles of potentially anadromous fish streams in the White Salmon watershed.

• End of fish habitat is established at natural barriers (waterfalls over 4 meters in height or sustained gradient over 20 degrees for 160 meters.



Fish Passage Inventory Process

WDFW *Fish Passage & Surface Water Diversion Screening Assessment & Prioritization Protocol*

Full Physical Habitat Survey

- **Mainstem & potentially anadromous tributaries surveyed to the end of anadromy**
- **All human-made features are inventoried and assessed for passability**
- **Features are prioritized using WDFW Priority Index**
- **Upstream of barriers habitat data collected at a 20% sampling frequency**

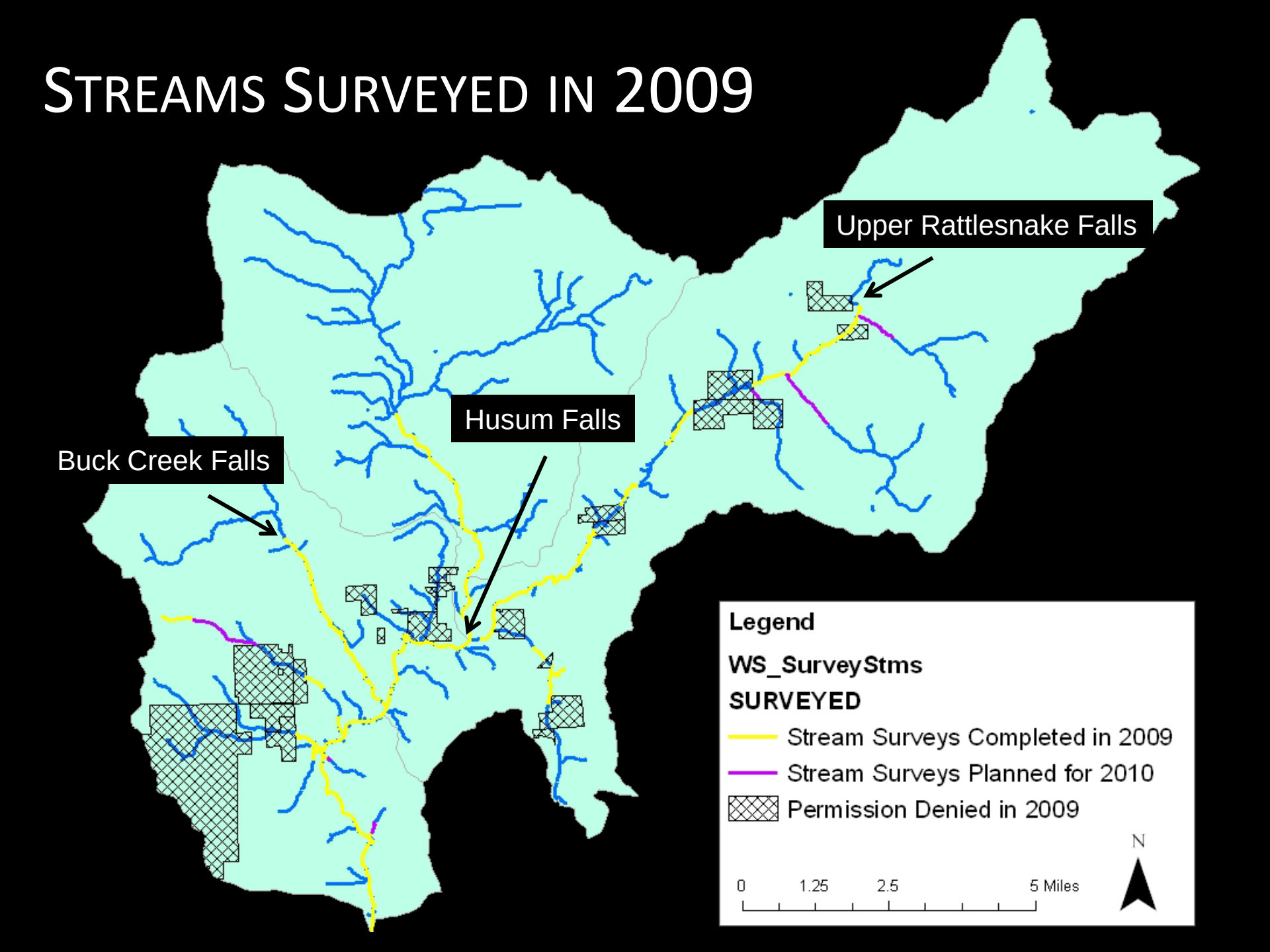
Landowner Outreach

- **Contact all landowners in survey area to provide information on project goals and needs**
- **Obtain permission to access streams and conduct survey**

LANDOWNER OUTREACH SUCCESSES

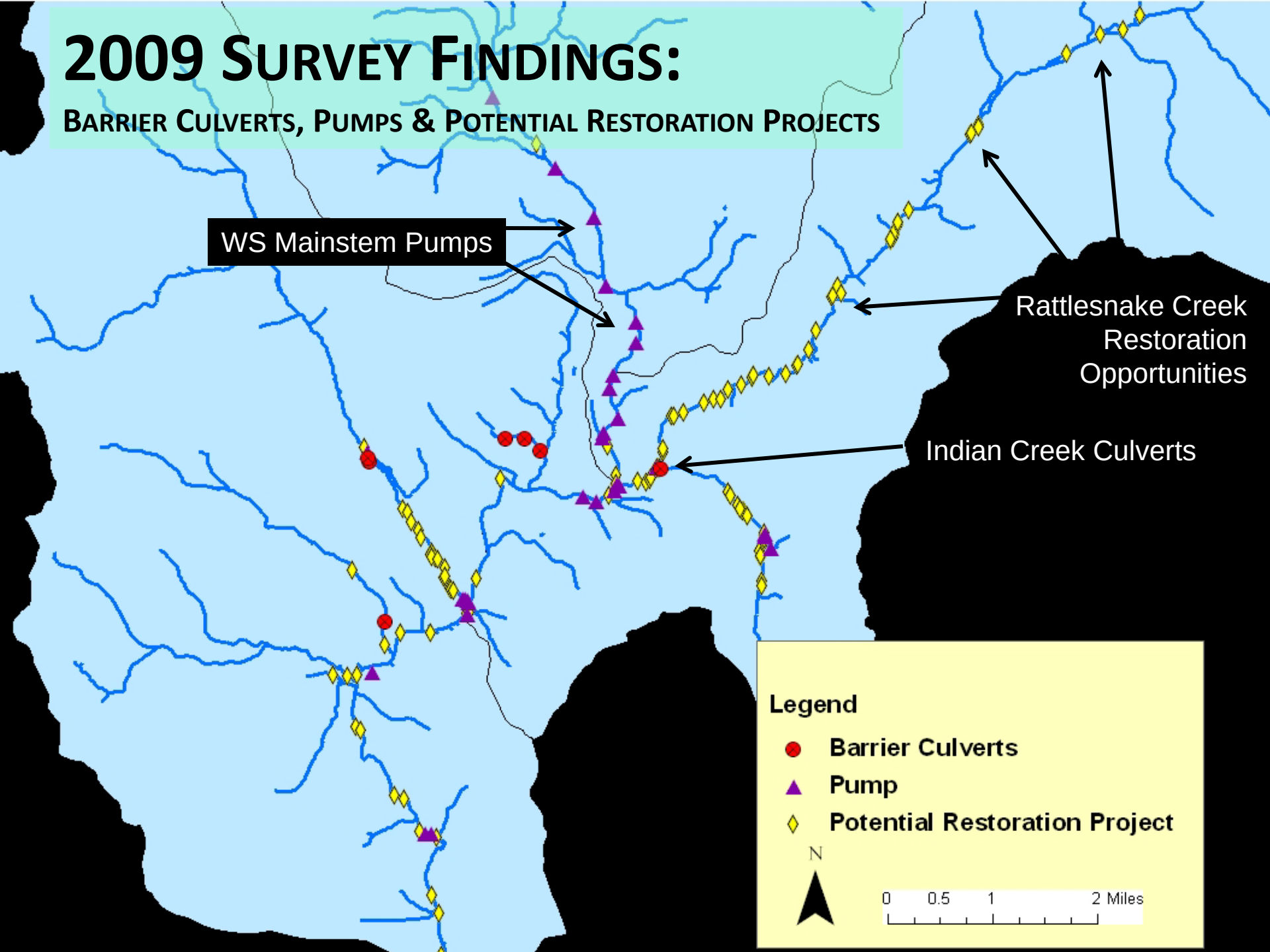
- Total of 78 landowners in the survey area (not including all landowners along the mainstem); 40 landowners contacted in 2009.
- 65% of landowners contacted in 2009 granted permission for the stream survey
- 22.5% of landowners contacted did not reply to requests for access
- 12.5% of landowners contacted denied permission for the stream survey
- Technical assistance and educational materials were provided to all landowners who participated in stream surveys.
- Potential restoration project opportunities identified and developed with willing landowners. Projects currently in development stages with 8 landowners.

Streams Surveyed in 2009



2009 Survey Findings:

Barrier Culverts, Pumps & Potential Restoration Projects



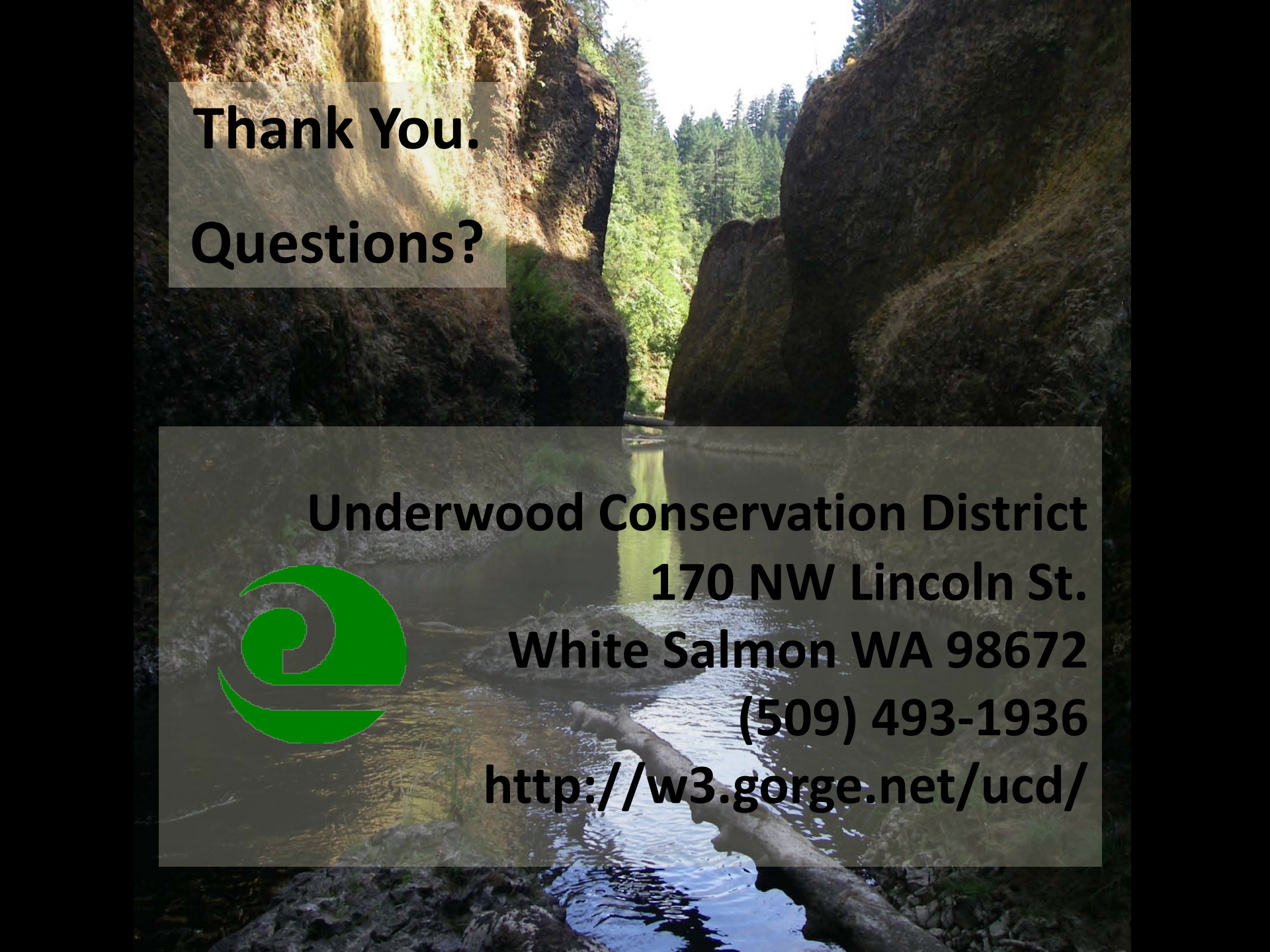
Next Steps for 2010

Contact 42 landowners on remaining portions of stream

Complete stream surveys through approximately 24 miles of stream

Barrier Prioritization

Restoration Project Development & Implementation



Thank You.

Questions?

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