

Attachment A

PRE-PROPOSAL FORM

Lewis River Aquatic Fund

1. Applicant organization.

Washington Department of Fish and Wildlife (WDFW)

2. Organization purpose

The mission of WDFW is to preserve, protect and perpetuate fish, wildlife and ecosystems while providing sustainable fish and wildlife recreational and commercial opportunities.

3. Project manager (name, address, telephone, email, fax)

Tammy Schmidt, Washington Department of Fish and Wildlife

600 Capitol Way N, Olympia, WA 98501

EMAIL: tammy.schmidt@dfw.wa.gov, PHONE: (360) 890-1287

Resume attached

4. Project Title

Bald Mt Creek Fish Barrier Correction

5. Summary of Project proposal

Our project proposes replacing two barrier crossings to fish passage within the Cedar Creek watershed. The project is located on a left bank tributary to Cedar Creek (locally called Bald Mt Creek) which contributes to the North Fork Lewis River at RM 15.5. The first crossing is located on the Kapp property. The existing barrier culvert (0.61m PVC) will be replaced with a 30ft bridge. Addition work includes regrading the road approaches, downstream channel regrading, and repositioning of existing log controls to direct flow away from the road fill and create resting pools. Additional large wood will be added to improve instream habitat quality and riparian plantings are proposed to decrease stream temperature and control bank erosion.

The second crossing is located upstream on NE 114th Ct at the Endres property. The existing barrier culverts (0.76m CST and 0.61m PVC) will be replaced with a 50ft bridge. This crossing provides access for nine homeowners; therefore temporary access will be required during construction. Minimal channel work will be required at this site and will primarily consist of removing road fill and sloping the streambanks at the crossing.

6. Project location (including River/Stream and Lat/Long coordinates if available).

Our project is located in the North Fork Lewis River basin on an unnamed tributary to Cedar Creek. The project reach is categorized as Priority Tier 4 (reach Cedar Cr LB Trib 2B) by the Lower Columbia Fish Recovery Board.

Kapp crossing – Lat: 45.921672, Long: -122.558984

Endres crossing – Lat: 45.919113, Long: -122.556693

7. Expected products and results (Please attach any drawings).

The two proposed stream crossings are undersized, resulting in high velocity and water surface drop, and are currently 33% passable to fish (Fish Passage Barrier and Surface Water Diversion Screening Assessment and Prioritization Manual, WDFW, 2009). The stream crossing on Kapp property needs continual maintenance, regularly getting plugged with debris causing water to back up and adds to additional downstream scour. An appropriately sized structure would alleviate maintenance issues. The addition of large wood will help to address the lack of instream woody material found throughout the reach and will help increase the complexity and diversity of habitat found in the stream. Our project proposal is to replace the crossings with steel modular bridges, providing full passage for fish, other aquatic organisms, debris and sediment. Replacement of these crossings will bring the sites into compliance with state law (RCW 77.57.030) and provide passage for anadromous and resident fish.

Maps attached

8. Benefits of proposed Project

WDFW identified the Cedar Creek watershed as high priority for fish passage improvements and steelhead monitoring, an ESA-listed species. WDFW established a Cedar Creek smolt monitoring program in Cedar Creek in 1998 to monitor Lower Columbia River steelhead. ESA-listed Lower Columbia chinook are also present in Cedar Creek but not in the tributary where this project takes place. Fish species with documented presence in Bald Mt Creek include coho and searun cutthroat trout. Winter steelhead are presumed to utilize the project reach and are designated as a contributing population by the Lower Columbia Fish Recovery Board. Limiting habitat factors for steelhead in this reach are stream temperature, instream flow, and habitat diversity. Limiting factors for coho are key habitat quantity, habitat diversity, sediment, channel stability, instream flow, and stream temperature. Correction of these two fish passage barriers would open 1.36 mi (2,190 m) of upstream habitat for ESA-listed steelhead, coho, and searun cutthroat. Upstream habitat is relatively low gradient with a succession of beaver ponds that provides excellent rearing habitat for coho. The addition of large wood will create resting pools and gravel deposition downstream of the Kapp crossing, which will improve off-channel habitat (to Cedar Creek) for coho (rearing), steelhead (spawning) and searun cutthroat (spawning and rearing).

9. Project partners and roles.

Washington Department of Fish and Wildlife – project design & engineering, permitting, construction oversight, and implementation monitoring

Clark Conservation District – construction management, permitting, and effectiveness monitoring

Natural Resource Conservation Service (NRCS) – design review and compliance review

10. Attach signed landowner(s) acknowledgment form(s), if applicable (**Attachment C**).

Attached 2 documents

11. Community involvement (to date and planned).

WDFW biologists are currently working with Friends of the East Fork Lewis River and Fish First to coordinate a partnership on this project. Community involvement will be contingent on landowner approval.

12. Procedure for monitoring and reporting on results.

WDFW requires implementation and effectiveness monitoring on all culvert replacements that receive an HPA (Implementation and Effectiveness Monitoring Plan for the Hydraulic Project Approval Program-DRAFT, WDFW, 2014). Implementation and effectiveness monitoring of bridge structures is not required by WDFW, however both will be conducted for this project. WDFW and Clark CD will jointly conduct monitoring. Results from the implementation will be captured in WDFW's Fish Passage & Diversion Screening Inventory database, which is available to tribes, city and county jurisdictions, and conservation groups.

13. Project schedule (anticipated start date, major milestones, completion date).

If funded, the project will commence no earlier than July 16, 2018 and reach completion on or before October 31, 2018. Major milestones are:

- Site survey summer 2017
- Final designs and permitting completed December 2017
- Construction begins July 2018
- Installation of new bridge crossings and LWD complete September 2018
- Riparian planting October 2018

14. Funding requested (estimated cost for project design, permitting (including necessary resource surveys), construction, signage, monitoring and administrative/insurance. Insurance limits to be determined based upon PacifiCorp's evaluation of the project risks.

Total ask: \$223,000

 Kapp crossing: \$115,000 (engineering, permitting, indirect, and implementation)

 NRCS match: \$62,000

 Endres crossing: \$170,000 (engineering, permitting, indirect, and implementation)

Cost estimates for the preferred correction alternatives were provided by WDFW environmental engineering staff.

15. Type and source of other contributions (Identify cash (C) and/or in-kind (IK), and status, pending (P) or confirmed (Co)).

Mr. Kapp will contribute large wood for his project (IK)(Co).

NRCS's EQIP program is expected to fund a portion of the Kapp project, bringing forward approximately \$62,000 for this work (C)(P).

16. If you have technical assistance needs for this project, please briefly describe such needs.

None needed

17. If any boating hazards/public safety are an issue please note if any signage requirements.

Not applicable

Tammy Schmidt

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Olympia, WA
98501

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Summary of qualifications

- 4 years of conducting fish passage stream restoration and habitat assessment
- 10 years of co-coordination of the western pond turtle recovery site in Pierce County, WA
- 15 years of wildlife management for the Washington Department of Fish and Wildlife (WDFW) with a primary focus on monitoring and recovery of state listed species
- Strong work ethic
- Proficient at data management and technical report writing
- Computer qualifications-ArcGIS, MS Office

Education

2004 Bachelor of Science, Environmental Sciences, The Evergreen State College, Olympia
2001 Associate in Veterinary Technology, Pierce College, Lakewood, WA
1989 Pomeroy High School, Pomeroy, WA

Employment history

2016-current Fish and Wildlife Biologist, Washington Dept. of Fish and Wildlife, Habitat Program
2008-2016 Assistant District Wildlife Biologist, Washington Dept. of Fish and Wildlife, Wildlife Program
2004-2008 Scientific Technician 3, Washington Dept. of Fish and Wildlife, Habitat Program
2002-2004 Scientific Technician 2, Washington Dept. of Fish and Wildlife, Wildlife Program
2001-2002 Veterinary Technician, Eye Clinic For Animals, Olympia WA
2000-2001 Scientific Technician 1, Washington Dept. of Fish and Wildlife, Wildlife Program
1995-1999 Veterinary Assistant – Pomeroy Veterinary Clinic, Pomeroy WA

Awards

WDFW Region 6 Employee of the Year for work conducted on western pond turtle shell disease
WDFW Team Award for distribution surveys of the Mazama pocket gopher in five WA counties

Papers

Schmidt, T. 2014. *Investigation of the Epidemiology of Ulcerative Shell Disease (USD) in Western Pond Turtles (Actinemys marmorata) in Washington.*

Schmidt, T. 2014. *Treatment of Ulcerative Shell Disease (USD) in Western Pond Turtles within the South Puget Sound Recovery Zone.*

Schmidt, T. 2014. *Over-winter Survival and Causes of Mortality of Head-started Yearling Western Pond Turtles in Pierce County, Washington.*

Schmidt, T., A.K. Maas, D. Collins, T. Storms. 2012. *WDFW Field Assessment Protocol for Detecting Ulcerative Shell Disease in Western pond turtles.*

Schmidt, T. 2006. *Diversions Screening and Fish Barrier Inventory in WRIA 40.*

Schmidt, T.A., Canning, A.B. 2005. *Fish Passage and Diversions Screening Prioritization Inventory and Habitat Assessment Report for Seven Streams in WRIA 48.*

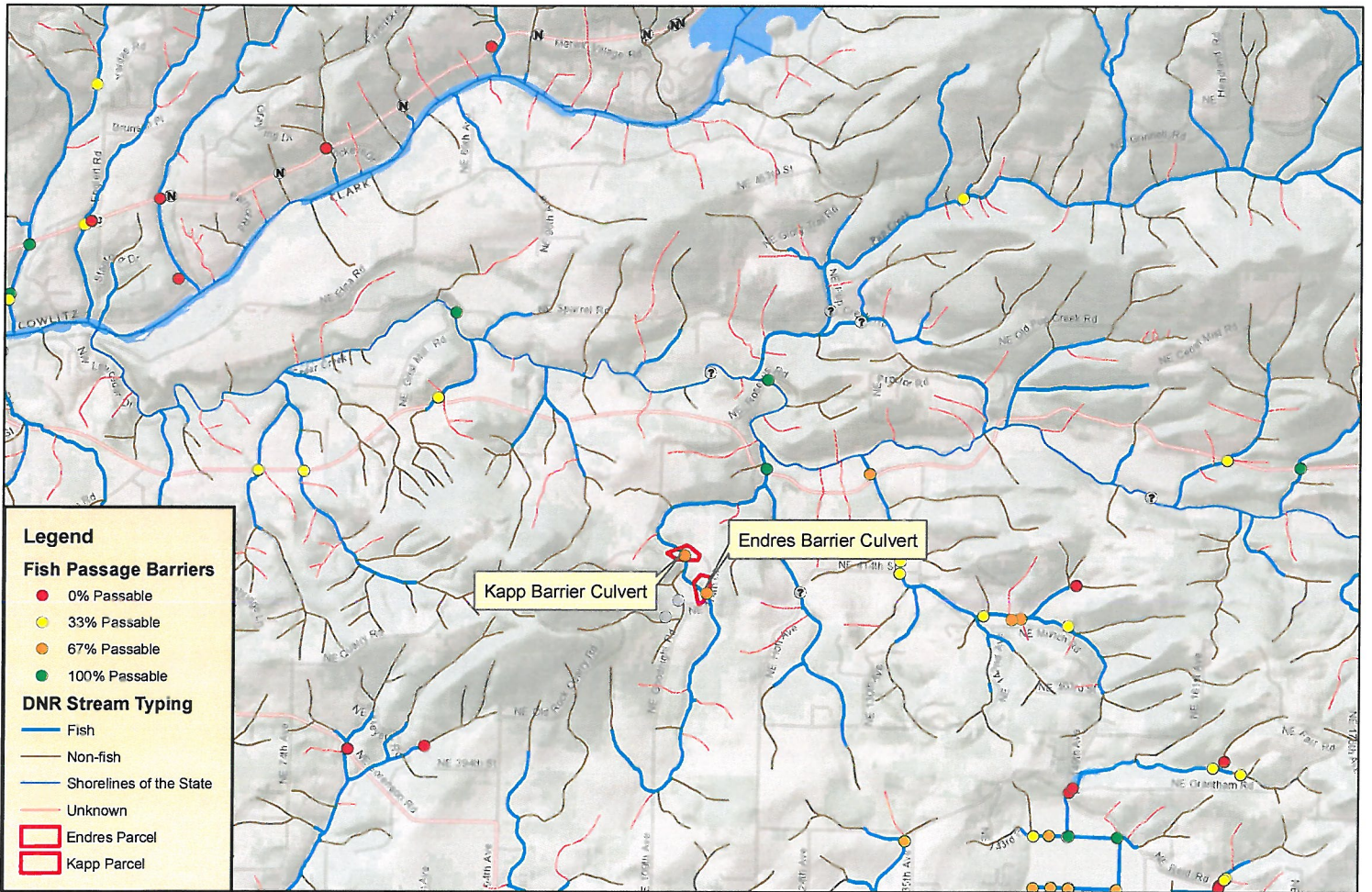
McAllister, K., Schmidt, T., Walker, M. 2004. *An Inventory of Oregon Spotted Frogs (Rana pretiosa) in the Upper Black River Drainage, Thurston County Washington*

The Relationship Between Dissolved Silica Concentration and Chlorophyll Production by Diatoms in Budd Inlet, Olympia WA, Research Paper, The Evergreen State College

Spatial Distribution of Harbor Seal Predations on Salmon in the Duckabush River in 2003, Technical Summary, WDFW

Specialized Cartography Techniques for Determining Harbor Seal Predation Zones within the Duckabush River, 2003, Regional Map, WDFW

Bald Mt Creek Fish Barrier Correction Bald Mt Creek to Cedar Creek, North Fork Lewis River



Legend

Fish Passage Barriers

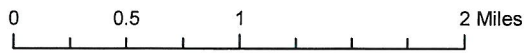
- 0% Passable
- 33% Passable
- 67% Passable
- 100% Passable

DNR Stream Typing

- Fish
- Non-fish
- Shorelines of the State
- Unknown

▭ Endres Parcel

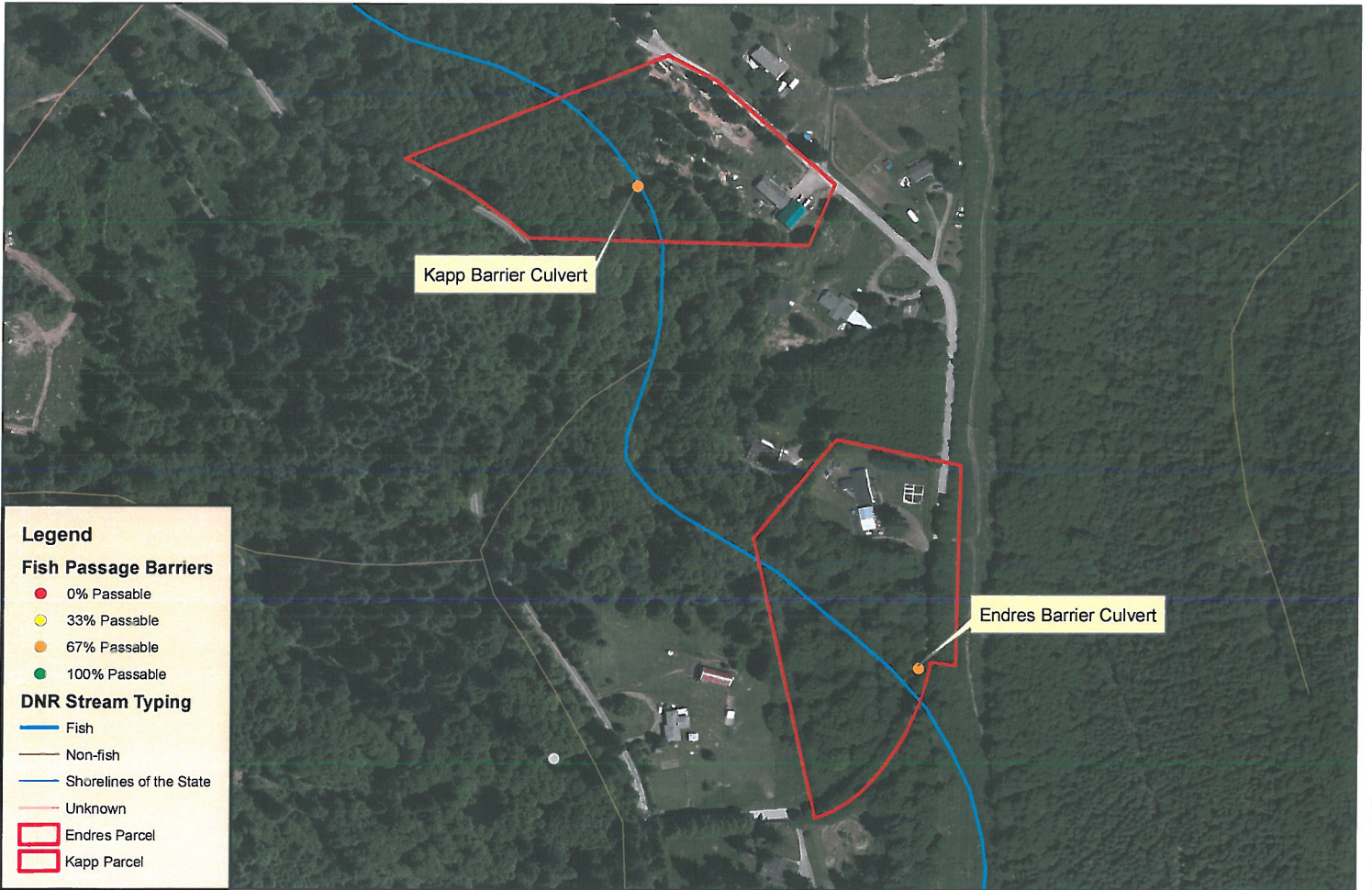
▭ Kapp Parcel



Author: Chris Dwight
Date: 9/28/2016



Bald Mt Creek Fish Barrier Correction Bald Mt Creek to Cedar Creek, North Fork Lewis River



Legend

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- ▭ Endres Parcel
- ▭ Kapp Parcel

0 0.04 0.08 0.16 Miles

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