

## Attachment A

### PRE-PROPOSAL FORM

#### *Lewis River Aquatic Fund*

##### Form Intent:

To provide a venue for an applicant to clearly indicate the technical basis and support for proposed project. Specifically, the project's consistency with recovery plans, Settlement Agreement Fund objectives, technical studies and assessments which support the proposed action and approach.

##### Pre-Proposal format:

Please complete the following form for each Pre-Proposal. Maps, design drawings and other supporting materials may be attached. The request is to be brief in response with a total completed form length of no more than 5 pages of text, excluding attached supporting materials.

The deadline for Pre-Proposal Form submission is **September 28, 2018**. Please submit materials to:

Erik Lesko  
PacifiCorp – LCT 1800  
825 NE Multnomah Street  
Portland, OR 97232  
[Erik.lesko@pacificorp.com](mailto:Erik.lesko@pacificorp.com)

1. Applicant organization.  
Cowlitz Conservation District

2. Organization purpose

The function of the Cowlitz Conservation District is: To coordinate the delivery of, and maintain the District's capacity to provide, technical assistance to landowners within the district promoting sound resource management. Our mission statement is "Working voluntarily with out citizens and other organizations, Cowlitz Conservation District will conserve and improve the natural resources within the District and guide resource development and use to provide the highest quality of life for present and future citizens.

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

Darin Houpt, 2125 8<sup>th</sup> Avenue; Longview, WA 98632, [ccdmgr@ccdandwcd.com](mailto:ccdmgr@ccdandwcd.com), 360-425-1880 extension 3514.

Undergraduate; University of Missouri-Columbia, Forest Management with minor in water resources.

Graduate; Oregon State University; Forestry Hydrology in the Forest Engineering Program

Work Experience: 1991-Present, Forest Hydrologist / District Manager for both Cowlitz and Wahkiakum Conservation Districts. Primary responsibilities project development and management initial focused on water quality through Centennial Clean Water Fund followed by Salmon Recovery through Lower Columbia Fish Recovery Board

1987-1991 United State Forest Service, Hydrologic Technician then Forest Hydrologist. Primary responsibilities include assessing impacts of proposed timber sales on hydrology and soil resources; tracking riparian prescription from planning through end result; and designing and implementing river restoration projects.

#### 4. Project Title

Anderson NF Lewis River Restoration

#### 5. Summary of Project Pre-Proposal

The proposed project is located along 3670 feet of the right bank in EDT Reach 5 of the Lewis River and currently encompasses three landowners including the Lewis River Golf Course (Stadings), Jerry Levesque, and Curt Anderson. While the Lewis River Aquatic Fund appears to place priority on reaches above the reservoirs, EDT reach 5 is a tier one reach downstream of the Merwin dam. The reach supports two primary populations including Chum and Fall Chinook. The reach supports two contributing populations including Coho and Winter Steelhead. The proposed project address resource concerns for accelerated erosion from 500 feet of an eroding bank along river right across from the LCFEG Happa project site and 18 acres of riparian restoration. According to the WDFW Lewis River Biologist the eroding bank is one of the highest priority project sites in the lower Lewis River that adversely effect rearing habitat both in the reach as well as downstream reaches. According to the Salmon Recovery Plan the restoration value for the reach is 40% while the preservation value is 60%. The proposed project site needs to be restored before it is preserved which is the intent of the project proposal. The project supports re-introduction of anadromous fish by improving rearing habitat in the lower reaches of the North Fork Lewis River. The proposed project will directly increase habitat at the project site and will indirectly (through reduction of fine sediment delivery) improve habitat downstream. The project will continue to solicit input form local, state, and federal technical resources to inform the project design and will be designed and constructed in accordance with all applicable local, state, and federal laws. Planned riparian restoration will restore riparian function in an urbanizing environment. Proper riparian function will benefit both aquatic and terrestrial environments. The proposed project consists of laying back a tall sand bank to an approximate 2:1 slope, installing several debris jams to deflect energy reducing shear stress on the bank, installing mulch and geocoir grid erosion control fabrics, planting the slope with live stakes, and restoring riparian function throughout the project reach. Example photos are attached to depict approach. The project addresses several restoration needs identified in the salmon recovery plan including floodplain function and channel migration processes, riparian conditions and functions, stream channel habitat structure and bank stability, and water quality. The plan ranks juvenile life stages as the priority and the primary limiting factors include key habitat quantity and habitat diversity,

*Note: Please include description of how project addresses Lewis River Aquatic Fund priorities and identify any impacts to other resource areas (e.g. wildlife, recreation, etc.).*

The Aquatics Fund Subgroup to the ACC has completed a Lewis River Aquatic Fund Priority Reaches (Priority Reaches) document which provides priority rankings for stream reaches within the Lewis River watershed. The Priority Reaches document is aligned with the LCFRB Interactive map which is found on their website at [www.lowercolumbiasalmonrecovery.org/mappage](http://www.lowercolumbiasalmonrecovery.org/mappage). The interactive maps provide a wealth of information that should help project proponents in selecting areas to focus their habitat improvement efforts. For consideration of funding the proponent must demonstrate that they have reviewed both the Priority Reaches and the LCFRB Interactive map and selected appropriate projects/reaches from those two tools. Additionally, proponent must show how proposed project is consistent with fund objectives and priorities. Projects proposed in reaches other than those identified in the Priority Reaches document or high priority reaches in the LCFRB habitat strategy (Tier 1 and Tier 2) are unlikely to advance to the full proposal stage without clear explanation of why they still support Lewis River Aquatic Fund goals.

6. Project location (include location map, River/Stream and Lat/Long coordinates if available).

A project concept map and a vicinity map including the watershed context is attached. The project reach encompasses 3670 feet of the right bank in EDT reach 5 beginning at approximate river mile 12.8 through 13.5. The participating ownerships and river reach are located within the NE ¼, section 10, and the NW ¼, section 11, Township 5 North, Range 1 East. The latitude of the site is 45.928604 degrees. The longitude is -122.65433 degrees.

The vicinity and watershed context map attempts to provide an overview of the proposed projects association to other lower North Fork Lewis River restoration projects. The project area is best defined by the “green” riparian restoration polygon.

*Note: Map must include project area boundaries, watershed context (i.e. project area within the NF Lewis basin), scale bar, and north arrow.*

7. Expected products and results (Please attach drawings). Provide 1) a brief description of the site and the site problems contributing to limiting factors, 2) Specific goals and objectives for addressing the problems and 3) conceptual project design with a description of the design and plan view drawing on scaled site plans including an indication of bankfull width and approximate dimensions of proposed project elements, and a brief description of short term and long term benefits.

The project site includes two primary characteristics. In the upstream portion of the reach the river flow through a gentle bend in the river with the project site being the near bank. The area of concern is 500 feet of the riverbank about 10-12 feet tall and consisting entirely of sand. The bank is rapidly eroding delivering large volumes of sand into the river. A picture is attached depicting this bank condition. The downstream

portion of the project is the downstream side of the point bar and consists of a gentle sloping riverbank still dominated by sand. The habitat in this area is functioning well. However there appears to be an opportunity for some channel margin habitat to promote 0-age rearing juveniles. Throughout the project reach riparian vegetation ranges from non-stocked to moderately stocked. The goal of this project is to implement both short term and long-term practices to address these resource concerns. Objectives include bank stabilization practices that will address accelerated erosion and subsequent sediment delivery to the river, install channel margin structures to provide young juveniles with rearing habitat along the immediate rivers edge, and restoring riparian function to address resource concerns over the long term. Attached are photos that serve as an example for the proposed bank stabilization project. The District is currently working on preliminary design documents for the site. Field surveying has been completed and the data has been reduced to generate a surface model. We intend to have preliminary design sheets completed by the final application.

#### 8. Benefits of proposed Project to Focal Reintroduction Species with Emphasis on Spring Chinook.

The proposed project does not directly influence the release of Spring Chinook in the NF Lewis River. The acclimation ponds and release site are well downstream of the site. The project may indirectly influence downstream rearing habitat by significantly reducing the delivery of fine sand into the system. The project will directly influence other focal species including chum, Coho, fall chinook, and winter steelhead by creating some habitat diversity and complexity along the river margin that will provide migration holding and possibly limited spawning opportunity. The project will improve downstream rearing for these species by minimizing the amount of fine sand delivered to the system that accumulates in typical rearing habitat. Sand from the site appears to show at Eagle Island.

#### 9. Project partners and roles.

Cowlitz Conservation District – Project Lead

Washington State Department of Fish and Wildlife – Biologist input & permitting

Army Corps of Engineers – Permitting

Washington State Conservation Commission – Capital Project Funds award (match \$)

Landowners – Stewardship of their property

Lower Columbia Fish Enhancement Group – potential partner and project review

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

#### 11. Community involvement (to date and planned).

Community involvement to date has consisted of attempting to keep the community aware of project goals and funding processes. If funded our plans are to host a local community meeting to discuss the project with potentially affected landowners and utilizing local media to keep the Lewis River Watershed Community informed.

12. Procedure for monitoring and reporting on results.

The District intends to monitor the project site as we do all our projects. This includes implementation monitoring (preparing as-builts) to document the project. The District in collaboration with the landowner will monitor the site regularly to ensure that goals and objectives are being met with the intent to adaptively manage the project site. Structures will be viewed daily by the landowner and by the district following larger flow events to ensure objectives are met. This will include direct observation and photo documentation from fixed photo points. Riparian vegetation will be monitored during the spring and fall to identify maintenance prescriptions to ensure that stocking levels are met. This will consist of zig-zag transects or use of fixed radius plots to evaluate establishment success.

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

Complete preliminary design – December 31, 2019

Fund project: Spring 2020

Conduct Project Input – Fall 2020

Complete Permit Level Design – October 31, 2020

Apply for Permits – December 31, 2020

Contract Project – March 31, 2021

Begin Restoration – July 15, 2021

Complete Restoration – August 31, 2021

Riparian Site Preparation – October 15, 2021

Riparian Planting – March 15, 2022

Monitoring – structures (continuously), riparian (spring and fall) – as long as possible

Close project – December (as long as allowed by program)

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.

\$310,000 total project cost; \$254,000 funding request

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

Landowners – In-kind local match - \$6,000 confirmed

WSSC Capital Funds - \$50,000 cost share award confirmed

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

Most technical assistance needs are provided for by a small grants program award from Lower Columbia Fish Recovery Board and will be expended before decision on this proposal. We are soliciting funds to implement the project.

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

The reach is highly utilized by boat traffic, hazard signs will be installed on structures. Structure will be held fairly tight to the riverbank and are highly visible.

Attachments  
Example of Project Approach



Middle Valley Skamokawa Pre Project (10-foot creek bank, fine sandy loam soil)



Depicts a common approach by the District. Debris Jams installed to manage energy / reduce shear; bank shaped; erosion control fabrics installed; fabric planted with live stakes (willow & dogwood). Erosion control fabric typically consists of a mulch fabric over the seed followed by a Coir geogrid of enough weight to resist expected velocity. At Anderson site we will design large jams and incorporate toe bank (rock and logs) protection to anchor fabrics.



Site during high water event. Jams effectively shift velocity energy off creek bank effectively reducing shear; Project has held up as planned for last 10 years; vegetation fully occupying creek bank.



Livestakes after 5-years of establishment; minimum riparian buffer (~25 feet) is providing root strength necessary to hold bank



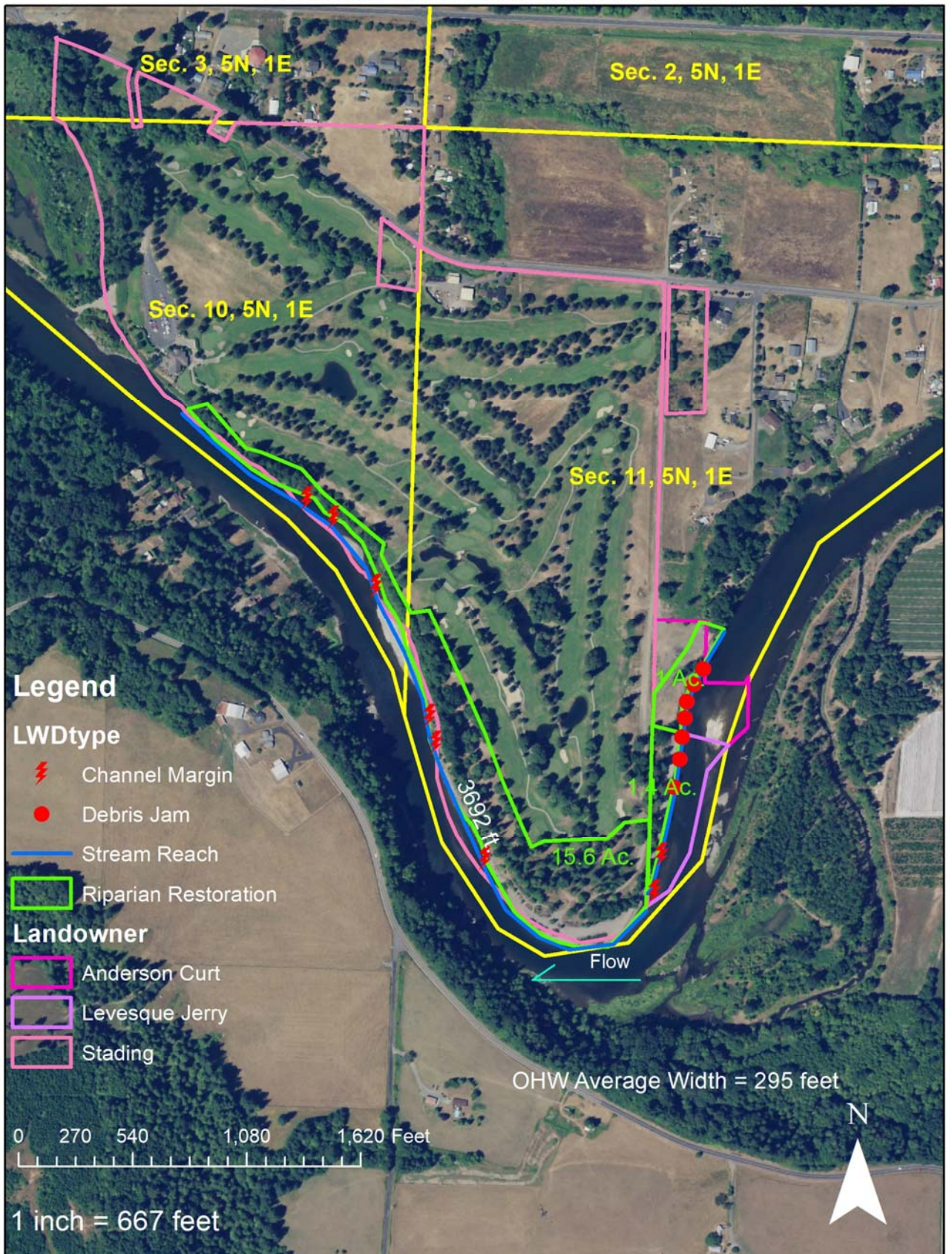
For the Lewis River we intend to design more robust jam structures as depicted here. The pictured jam creates an undercut bank condition. For the proposed project, all of the wood especially the lower “barb” logs will be larger diameter and will be oriented to capture and retain the gravel at the site. Logs, logs with rootwad, or rock will be incorporated between the “barb” logs to protect the toe of the sand bank. This will help create rearing habitat and possibly a small opportunity for some spawning (coho and steelhead).



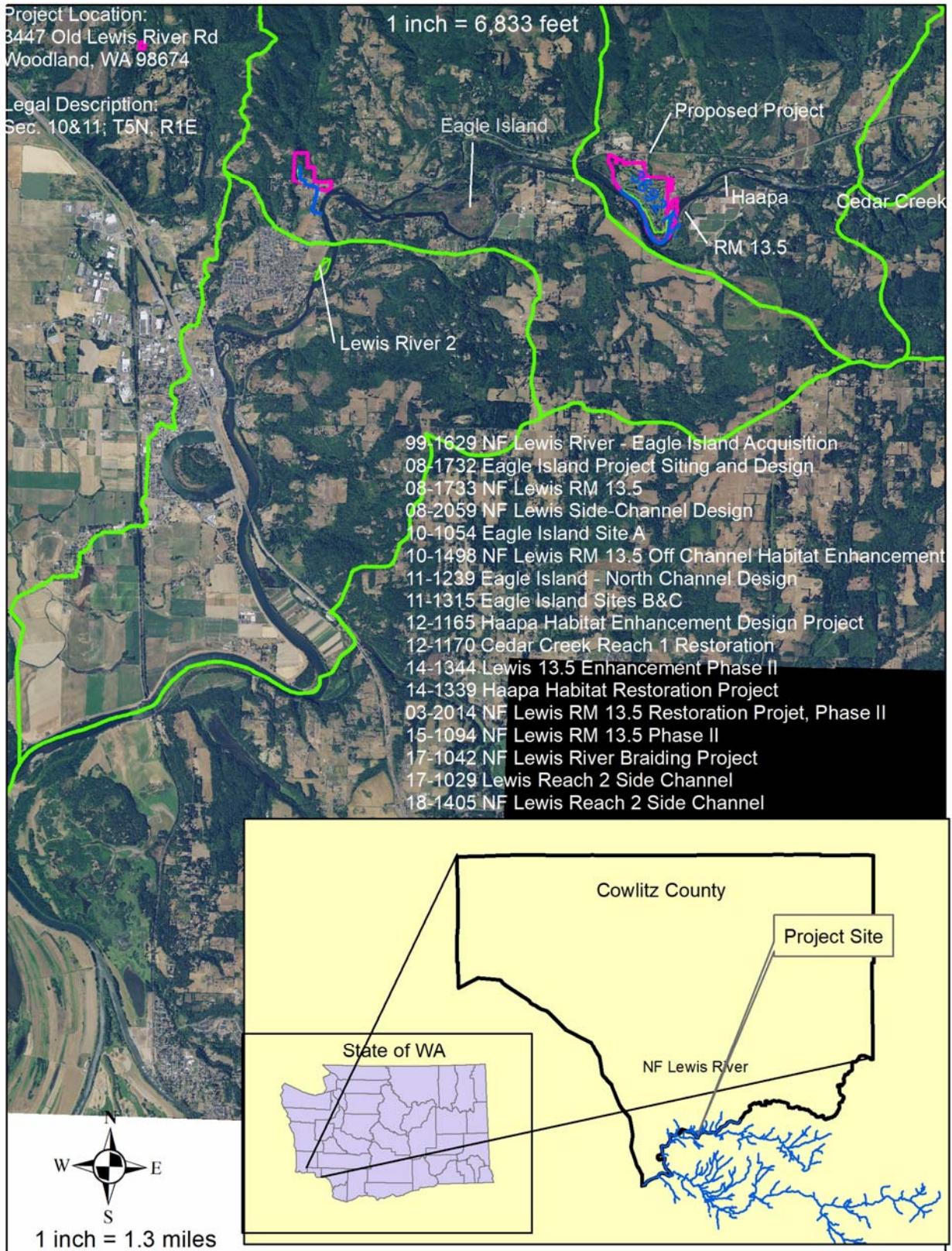
Lewis River bank condition at the proposed project site



# Anderson Lewis River Restoration



# Camp Kalama Kalamas River Rstoration Vicinity Map / WS Context



# Appendix F: Landowner Acknowledgement Form

## Landowner Information

Name of Landowner: Stading Family LLC

Landowner Contact Information:

Mr.  Ms. Title: Manager

First Name: Ralph Last Name: Stading

Contact Mailing Address: 267 Neimi Rd. Woodland, WA 98674

Contact E-Mail Address: ralphj@lewisrivergolf.com

Property Address or Location: Lewis River Golf Course 3209 Old Lewis River Rd. Woodland, WA 98674

1. I (Stading Family LLC, a Washington Limited Liability Company) am the legal owner of property described in this grant application.
2. I am aware that the project is being proposed on my property.
3. If the grant is successfully awarded, I will be contacted and asked to engage in negotiations.
4. My signature does not represent authorization of project implementation.

\_\_Ralph J. Stading, Manager --- Stading Family LLC

\_\_\_\_\_ June 12, 2019 \_\_\_\_\_

Landowner Signature

Date

## Project Sponsor Information

Project Name: Anderson NF Lewis River Restoration

Project Applicant Contact Information:

Mr.  Ms. Title: Cowlitz Conservation District Manager

First Name: Darin Last Name: Houpt

Mailing Address: 2125 8<sup>th</sup> Ave. Longview, WA 98632

E-Mail Address: ccdmgr@ccdandwcd.com

# Appendix F: Landowner Acknowledgement Form

## Landowner Information

Name of Landowner: Curt Anderson

Landowner Contact Information:

Mr.  Ms. Title:

First Name: Curt Last Name: Anderson

Contact Mailing Address: 120 Jeffrey Ln. Emmett, ID 83617

Contact E-Mail Address:

Property Address or Location: 3447 Old Lewis River Rd. Woodland, WA 98674

1. I (Landowner or Organization) am the legal owner of property described in this grant application.
2. I am aware that the project is being proposed on my property.
3. If the grant is successfully awarded, I will be contacted and asked to engage in negotiations.
4. My signature does not represent authorization of project implementation.

Curt Anderson

Landowner Signature

3-14-19

Date

## Project Sponsor Information

Project Name: Anderson NF Lewis River Restoration

Project Applicant Contact Information:

Mr.  Ms. Title: Cowlitz Conservation District Manager

First Name: Darin Last Name: Houpt

Mailing Address: 2125 8<sup>th</sup> Ave. Longview, WA 98632

E-Mail Address: ccdmgr@ccdandwcd.com