

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.

Proposal format:

Please complete the following form for each 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 3 pages of text.

The deadline for Pre-Proposal Form submission is **October 3, 2014**. Please submit materials to:

Frank Shrier
PacifiCorp – LCT 1500
825 NE Multnomah
Portland, OR 97232

1. Applicant organization.

Lower Columbia Fish Enhancement Group

2. Organization purpose

The Lower Columbia Fish Enhancement Group (LCFEG) is a 501-c3 non-profit organization created in 1991 to enhance and restore salmonid habitat in Clark, Skamania, Wahkiakum, Cowlitz, and Lewis counties. Our mission is to lead the process of salmon recovery in a way that ensures community involvement in habitat restoration so that abundant, naturally self-sustaining salmon and steelhead runs occur throughout the Lower Columbia River region.

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

LCFEG Project Manager: Peter Barber, 12404 SE Evergreen Hwy, Office: (360) 882-6671, cell (360) 904-7922, email peter.e.barber@outlook.com. Experience: 8 yrs managing habitat restoration projects, graduated Oregon State University during 2000 with a Bachelor of Science degree, specialty Fisheries/Fish Ecology.

LCFEG has managed numerous (32) SRFB funded design and construction projects in the region, including similar efforts within this same reach of the Lewis River. The final project design will be completed by Interfluve Inc., Mike McAllister, PE. Experience:

18 yrs of creating stream channel and restoration design projects, skilled in hydraulic analysis, basin hydrology, vegetative waterway design, scour and erosion investigations, bank stabilization and bioengineering, topographic surveying, and construction oversight.

4. Project Title

North Fork Lewis River RM13.5 Restoration Project, Phase II

5. Summary of Project proposal

The goal of the project is to restore long-term habitat function and to provide an immediate increase in habitat availability, quality, and complexity in order to benefit NF Lewis River ESA-listed Chinook, steelhead, Coho, and chum. This proposal requests ACC funds to acquire and transport large wood in the event supplies of suitable wood in the reservoirs are unavailable. The donated wood value will be utilized as cost-share to increase support for a future 2015 Salmon Recovery Funding Board grant proposal. If SRFB NF Lewis13.5 Phase II construction funds are not secured during 2015, the ACC Funds will be returned.

Background

During 2008, the Salmon Recover Funding Board funded a restoration project (#08-1733) which placed LWD off the left bank of the mainstem river mile (RM) 13.5, and a side-channel design project (#08-2059) that led to funding (#10-1498) for construction of a 2,800' long side channel in the left bank terrace. These projects were successfully implemented and have been monitored since construction ended in 2011.

The NF Lewis River RM 13.5 Restoration Project, Phase II will build upon those previous projects and the lessons learned that continue to limiting the full productivity of the RM 13.5 project site. Four specific areas have been identified within this RM 13.5 project reach that continue to handicap the productivity, including;

Low flow side channels: Post completion of the SRFB project #08-1733, monitoring activities by project staff and the local landowner, have documented ephemeral side channels that frequently strand juvenile salmonids due to fluctuating river levels. We are proposing to create two new side channels (1,100ft & 750ft) by excavating a channel and connecting the stranding depressions. The new side channels will continue flow at summer low flows and contain numerous pieces of LWD to create a grand total of 1,850 feet of perennial side channel habitat. The 750ft side channel will exit into a stagnant 2.5 acre off channel pond to eliminate another known stranding area. Fish Benefits: salmonid sac-fry, sub-yearling and adult chinook, juvenile coho and steelhead.

Main stem margin LWD: Post completion of SRFB project #08-1733, monitoring activities by WDFW and PacifiCorp have documented a huge increase in winter steelhead activity and we suspect an increase in chinook and coho spawning activities as well. Although the NF Lewis main stem LWD structures created excellent spawning habitat and we have observed age +1 year juveniles congregated in the soft water behind the structures, however they provide minimal benefit for juvenile age 0 Chinook sac fry seeking velocity refuge along the channel margins. We are proposing to place additional LWD structures to provide habitat complexity and refuge along the channel margin to

primarily benefit rearing sub-yearling juvenile chinook and secondary benefits to yearling and adult coho and winter steelhead. Fish Benefits: sac fry/sub-yearling chinook, adult and juvenile coho and steelhead.

Side channel sediment wedge: Post completion of SRFB project #10-1498 and the creation of a 2,800ft side channel, project staff have observed the formation of a large sand wedge at the outlet of the active side channel. The sand wedge continues to restricts juvenile and adult access into side channel habitat. We propose to address this issue by excavating a portion of the sediment from the channel between the left bank and island and installing LWD along the shoreline. The LWD will constrict flows and induce scour that will allow a better connection to the main stem. Fish Benefits: Adult and juvenile chinook, coho and steelhead.

This project addresses Aquatic Fund priorities #1 & #3:

Priority 1: *Benefit fish recovery throughout the North Fork Lewis River, with priority to Federal ESA-listed species.*

&

Priority 3: *Enhance fish habitat in the Lewis River Basin-, with priority given to the North Fork Lewis River.*

This final restoration phase will maximize salmonid productivity at this site by eliminating known stranding areas and creating a total of 1,850 ft of low flow side channel, increasing fish access to the 2,800ft side channel, enhancing 1,500ft of mainstem margin rearing conditions. Chinook, chum, Coho and steelhead trout are listed as a threatened species under the ESA. This project will contribute to the recovery of these species by increasing the amount and quality of complex rearing margin habitat in the NF Lewis River, and will increase the function of spawning habitat associated with the wood complexing.

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

The project area falls within reach Lewis 5, a Tier 1 reach according to the Lower Columbia Salmon Recovery and Fish & Wildlife Subbasin Plan (LCFRB 2004). The proposed NF Lewis RM 13.5 Phase II project site is located between RM 13.2 & 13.7 of the NF Lewis River. The project is located in Reach Lewis 5 and listed as high priority Tier 1 reach identified in the Lower Columbia Salmon Recovery and Fish & Wildlife Subbasin Plan (LCFRB 2010). The site is downstream of the canyon reach, which is highly productive for Chinook spawning. The project area encompasses the main channel and property owned Samuel Kysar and DNR State Owned Aquatic Lands (SOAL).

Latitude: 45°55'47.24"N

Longitude: 122°39'13.92"W

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

The project directly benefits all salmonids originating in and returning to the NF Lewis River. The following restoration objectives have been developed to address the NF Lewis process impairments and to create and enhance habitats to benefit ESA listed salmon and steelhead populations. See attached: aerial photos and preliminary design drawings.

8. Benefits of proposed Project

This final restoration phase will maximize salmonid productivity at this site by eliminating known stranding areas and creating a total of 1,850 ft of low flow side channel, increasing fish access to the 2,800ft side channel, enhancing 1,500ft of mainstem margin rearing conditions. The proposed site for development of side-channel rearing habitat along the North Fork Lewis River provides a unique opportunity to address key limiting factors for Chinook, Coho, chum and steelhead habitat for three reasons: 1) the site presents an opportunity to address a known stranding location that continues to handicap the recovery of local ESA listed populations, 2) increase the long term productivity of 2,800 foot side channel, and 3) the property is currently held by a willing landowner who has agreed to donate \$15,000 in materials as an active project partner. Furthermore, if implementation of this project is not performed in a timely fashion, North Fork Lewis salmon and steelhead populations will continue to experience a lack of the quantity and quality of habitat that is necessary to sustain robust populations that achieve species recovery objectives.

9. Project partners and roles.

Interfluve Inc. – Project final design, permitting, construction oversight

Larch Mountain Corrections – Inmate labor

Sam and Joan Kysar – Landowner, slash/woody debris donation

DNR Aquatic Lands - Landowner

WA SRFB – Future restoration project funding partner

10. Community involvement (to date and planned).

The project has been vetted through the LCFRB and the Technical Advisory Committee (TAC) project review process during 2014 and was selected as an alternate for funding by the SRFB. The initial review included significant opportunity for community involvement and landowner input. The previous construction phase at this location has already engaged in outreach to local conservation organizations i.e. Fish First and anglers. LCFEG has already placed signage describing the location of log structure along the river shoreline at the nearby public fishing and boat ramp access sites.

11. Procedure for monitoring and reporting on results.

Monitoring procedures will be developed collaboratively with DNR, WDFW & PacifiCorp during the design phase of the project. Reporting of results will be done using ACC protocols (if existing), or standard SRFB protocols which include a final as-built report and photo summary.

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

Feb 2015 thru July 2015

- Complete/Submit SRFB NF Lewis 13.5 Restoration Phase II project proposal.
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December 2015 - June 2016 (if SRFB are secured)

- Finalize project design, coordinate with partners
- Submit permitting documents for construction
- Contractor selection
- Material acquisition
- Photo documentation

July 2016 thru September 2016

- Construction: Side channel excavation, LWD placement in backwater channel and main stem channel margin
- Photo documentation

November 2016 - June 2017

- Installation of riparian plantings in disturbed areas
- Monitoring of wood structures and fish response, documentation of channel changes
- Begin clearing two acres of flood plain invasive plant species (Scotch Broom)
- Photo documentation

July 2017 thru September 2018

- Side channel and LWD maintenance (if needed)
- Photo documentation

October 2018 thru December 2019

- As-built survey, photo documentation
- Complete final reports, closeout project

13. Funding requested (estimated cost for project design, permitting (including necessary resource surveys), construction, signage, monitoring and administrative/insurance. Required insurance limits have been outlined below.

ACC funding request

\$50,000 for large wood purchase and transport

\$22,000 for insurance coverage

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

\$15,000 Sam Kysar (IK, Co)

\$35,000 LCFEG (IK, Co)

\$285,000 SRFB (proposed 2015)

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

LCFEG will hire Interfluve to provide technical services for this project.

16. If any boating hazards are an issue please note if any signage requirements.

The proposed LWD margin wood placement locations have been selected to avoid areas with high levels of recreational boat traffic. This is the second phase of construction at this location and this site already has two large warning signs at each end, in addition to warning signs at NF Lewis River boat launches.

Insurance Requirements

1. INSURANCE

Without limiting any liabilities or any other obligations of [CONTRACTOR], [CONTRACTOR] shall, prior to commencing the Project, secure and continuously carry with insurers having an A.M. Best Insurance Reports rating of A-:VII or better the following insurance coverage:

1.1 Workers' Compensation. [CONTRACTOR] shall comply with all applicable Workers' Compensation Laws and shall furnish proof thereof satisfactory to PacifiCorp prior to commencing the Project.

All Workers' Compensation policies shall contain provisions that the insurance companies will have no right of recovery or subrogation against PacifiCorp, its parent, divisions, affiliates, subsidiary companies, co-lessees, or co-venturers, agents, directors, officers, employees, servants, and insurers, it being the intention of the parties that the insurance as effected shall protect all parties.

1.2 Employers' Liability. Insurance with a minimum single limit of \$1,000,000 each accident, \$1,000,000 disease each employee, and \$1,000,000 disease policy limit.

1.3 Commercial General Liability. The most recently approved ISO policy, or its equivalent, written on an occurrence basis, with limits not less than \$1,000,000 per occurrence/ \$2,000,000 general aggregate (on a per location and/or per job basis) bodily injury (with no exclusions applicable to injuries sustained by volunteers working or participating in the Project) and property damage, including the following coverages:

- a. Premises and operations coverage
- b. Independent contractor's coverage
- c. Contractual liability
- d. Products and completed operations coverage
- e. Coverage for explosion, collapse, and underground property damage
- f. Broad form property damage liability
- g. Personal and advertising injury liability, with the contractual exclusion removed

- h. Sudden and accidental pollution liability, if appropriate
- i. Watercraft liability, either included or insured under a separate policy

1.4 Business Automobile Liability. The most recently approved ISO policy, or its equivalent, with a minimum single limit of \$1,000,000 each accident for bodily injury and property damage including sudden and accidental pollution liability, with respect to [CONTRACTOR]'s vehicles whether owned, hired or non-owned, assigned to or used in the performance of the Project.

1.5 Umbrella Liability. Insurance with a minimum limit of \$4,000,000 each occurrence/aggregate where applicable to be provided on a following form basis in excess of the coverages and limits required in Employers' Liability insurance, Commercial General Liability insurance and Business Automobile Liability insurance above. [CONTRACTOR] shall notify PacifiCorp, if at any time their minimum umbrella limit is not available during the term of this Agreement, and will purchase additional limits, if requested by PacifiCorp.

1.6 In addition to the requirements stated above any and all parties providing underground locate, engineering, design, or soil sample testing services including [CONTRACTOR], subcontractor and all other independent contractors shall be required to provide the followings insurance:

Professional Liability: [CONTRACTOR] (or its contractors) shall maintain Professional Liability insurance covering damages arising out of negligent acts, errors or omissions committed by [CONTRACTOR] (or its contractors) in the performance of this Agreement, with a liability limit of not less than \$1,000,000 each claim. [CONTRACTOR] (or its subcontractors of any tier) shall maintain this policy for a minimum of two (2) years after completion of the work or shall arrange for a two (2) year extended discovery (tail) provision if the policy is not renewed. The intent of this policy is to provide coverage for claims arising out of the performance of work or services contracted or permitted under this Agreement and caused by any error, omission for which the [CONTRACTOR] its subcontractor or other independent contractor is held liable.

Except for Workers' Compensation insurance, the policies required herein shall include provisions or endorsements naming PacifiCorp, its affiliates, officers, directors, agents, and employees as additional insureds.

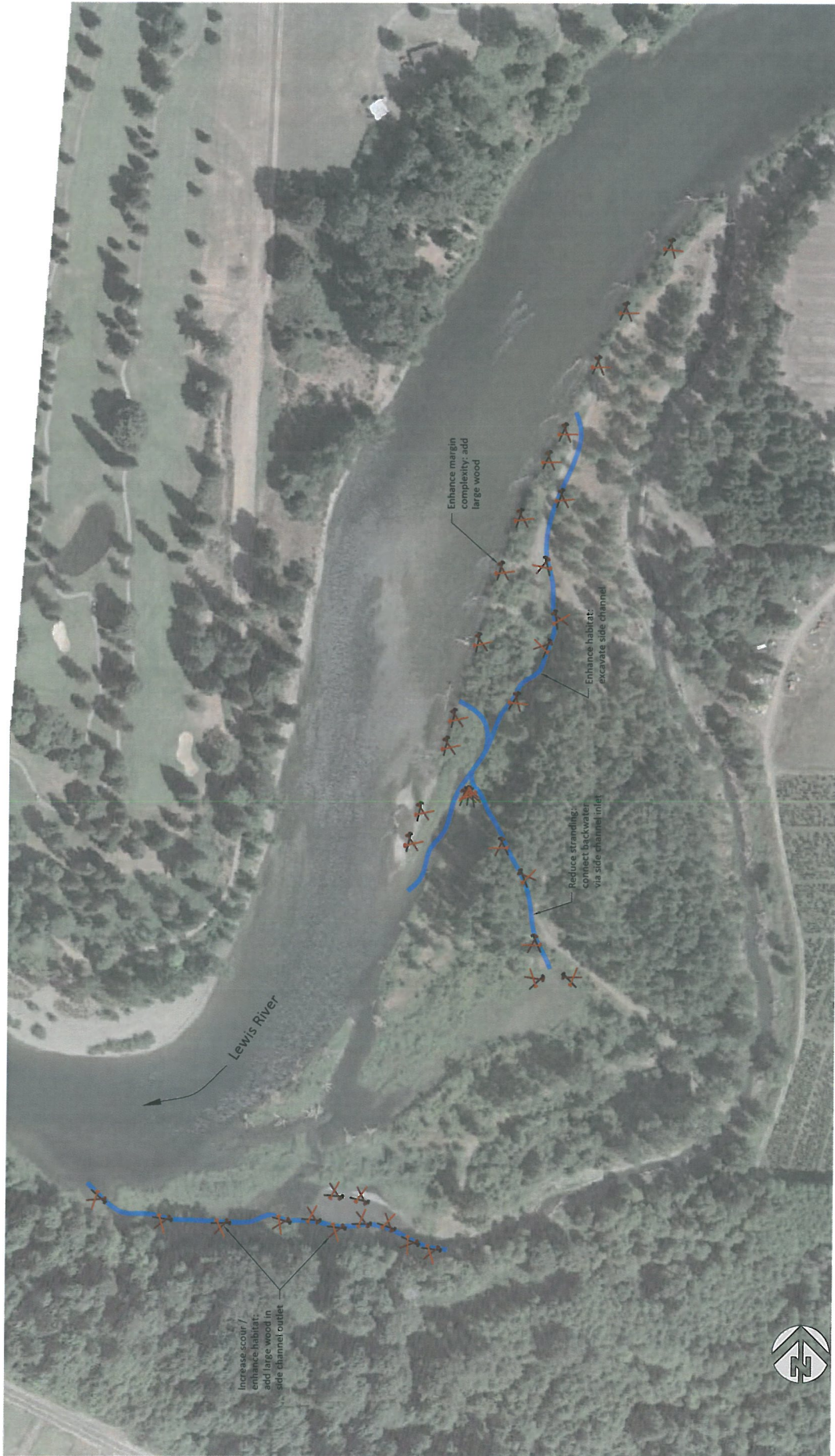
To the extent of [CONTRACTOR]'s negligent acts or omission, all policies required by this Agreement shall include provisions that such insurance is primary insurance with respect to the interests of PacifiCorp and that any other insurance maintained by PacifiCorp is excess and not contributory insurance with the insurance required hereunder, provisions that the policy contain a cross liability or severability of interest clause or endorsement, and that [CONTRACTOR] shall notify PacifiCorp immediately upon receipt of notice of cancellation, and shall provide proof of replacement insurance prior to the effective date of cancellation. No required insurance policies, except Workers' Compensation, shall contain any provisions prohibiting waivers of subrogation. Unless prohibited by applicable law, all required insurance policies shall contain provisions that the insurer will have no right of recovery or subrogation against

PacifiCorp, its parent, affiliates, subsidiary companies, co-lessees, agents, directors, officers, employees, servants, and insurers, it being the intention of the Parties that the insurance as effected shall protect all parties.

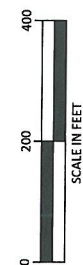
A certificate in a form satisfactory to PacifiCorp certifying to the issuance of such insurance shall be furnished to PacifiCorp prior to commencement of the Project by [CONTRACTOR] or its volunteers or contractors. If requested, [CONTRACTOR] shall provide a copy of each insurance policy, certified as a true copy by an authorized representative of the issuing insurance company, to PacifiCorp.

[CONTRACTOR] shall require subcontractors who perform work at the Project to carry liability insurance (auto, commercial general liability and excess) workers' compensation/employers' or stop gap liability and professional liability (as required) insurance commensurate with their respective scopes of work. [CONTRACTOR] shall remain responsible for any claims, lawsuits, losses and expenses including defense costs that exceed any of its subcontractors' insurance limits or for uninsured claims or losses.

PacifiCorp does not represent that the insurance coverage's specified herein (whether in scope of coverage or amounts of coverage) are adequate to protect the obligations [CONTRACTOR], and [CONTRACTOR] shall be solely responsible for any deficiencies thereof.



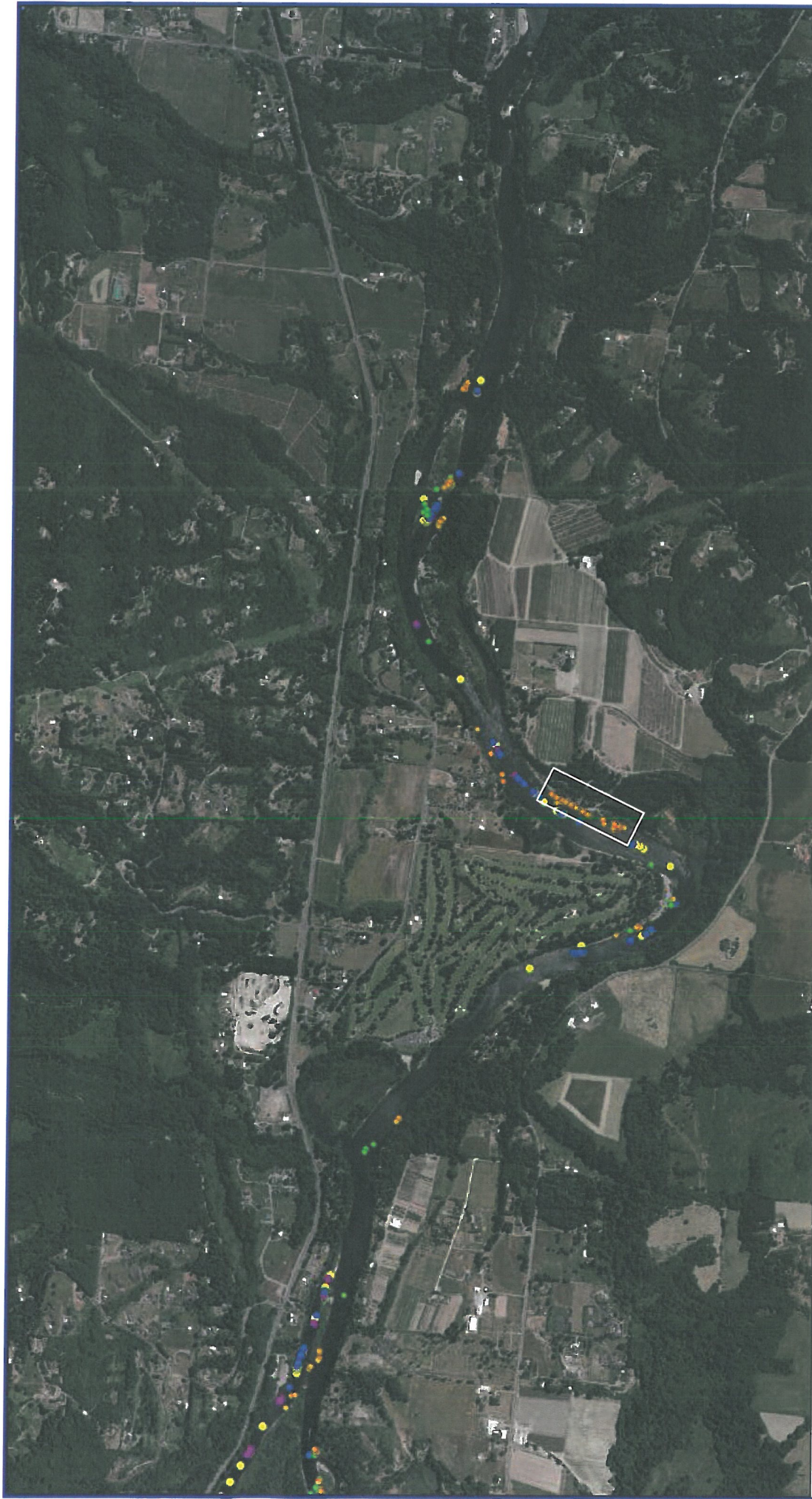
PLAN



Lewis River
River Mile 13.5
Fish Enhancement Concepts

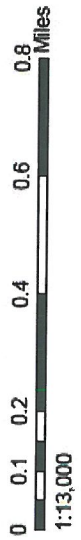
inter-fluve
501 Portway Avenue, Suite 101
Hood River, OR 97031
541.386.9003
www.interfluve.com

Winter Steelhead Redds Pre & Post Project



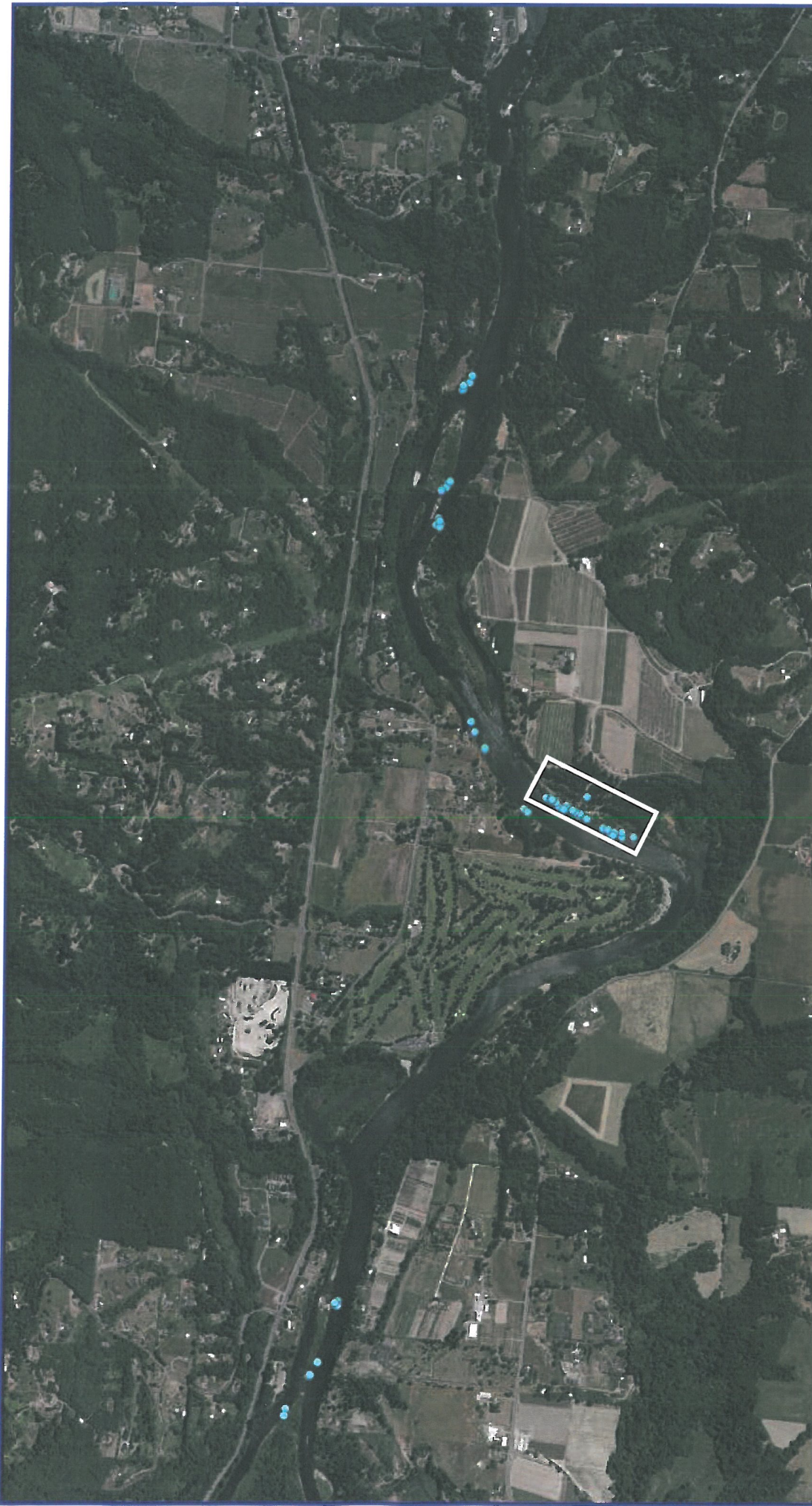
Steelhead Redd Locations, Lewis River, WA
2008-2012 Surveys

- Steelhead 2008
- Steelhead 2009
- Steelhead 2010
- Steelhead 2011
- Steelhead 2012



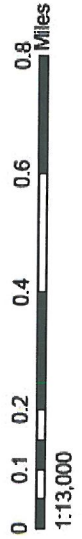
Map Sheet 2 of 3





Steelhead Redd Locations, Lewis River, WA
2013 Surveys

● Steelhead 2013



Map Sheet 2 of 3



2013 Winter Steelhead Redds

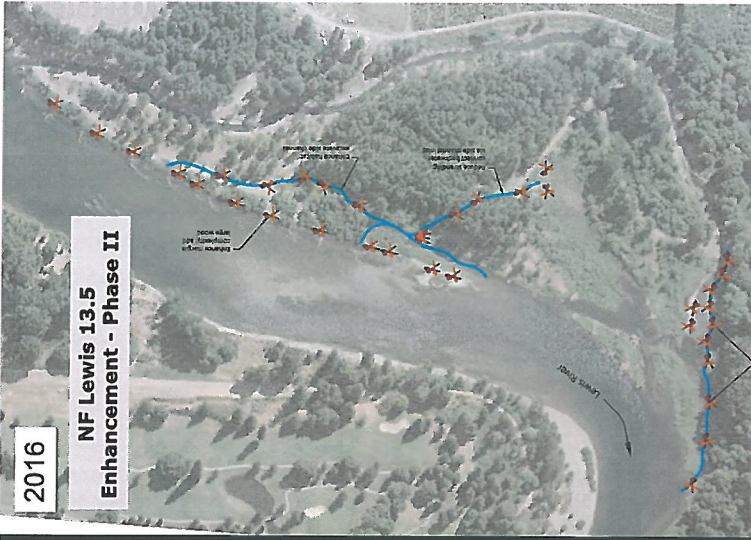


Winter Steelhead

2011 0

2012 10% = 34 reds

2013 7% = 31 reds



2016
 NF Lewis 13.5
 Enhancement - Phase II