R & E Grant Application 13 Biennium

Project #: 13-086

Camp Creek Phase II

Project Information

R&E Project Request: $52,400.00
Match Funding: $313,727.00
Total Project: $366,127.00
Start Date: 8/1/2014
End Date: 12/31/2014
Project Email: mruwaldt@gmail.com
Project Biennium: 13 Biennium
Organization: Partnership for the Umpqua Rivers (Tax ID #: 93-1298800)

Fiscal Officer

Name: Debbie Thornton
Address: 1758 NE Airport Rd
Roseburg, OR 97470
Telephone: 541-673-5756
Fax: 541-673-5790
Email: debbie@umpquarivers.org

Applicant Information

Name: Matthew Ruwaldt
Address: 1758 NE Airport Rd
Roseburg, OR 97470
Telephone: 541-673-5756 x169
Email: mruwaldt@gmail.com

Past Recommended or Completed Projects

Number	Name	Status
11-079	Scholfield Creek Restoration	Completed
11-078	Waggoner Creek Instream Restoration	Completed
11-129	West Fork Smith River Instream Restoration Phase 3	Completed
13-018	Bilger Creek Restoration	Approved

Project Summary

This project is part of ODFW's 25 Year Angling Plan.

Activity Type: Habitat
Summary: The Partnership for the Umpqua Rivers has formed another unique and beneficial

collaboration with a variety of organizations. The purpose of this alliance is to restore the mainstem and tributaries of Camp Creek, a tributary to Mill Creek on the Lower Umpqua River. A lack of Large Woody Debris (LWD) and boulders has limited the spawning and rearing habitat, resulting in lower fish production than is potentially possible. This is a multiple-stage basin-wide restoration approach. Phase I (funded through OWEB) was completed in 2013 and involved the placement of logs and boulders in Buck Creek, a tributary to Camp Creek. We are currently seeking match funding for Phase II, which involves the placement of logs, whole trees, and trees with rootwads into tributaries to Camp Creek. To save money and maximize efficiency, for this phase we are also adding on nearby Sagabeard and Footlog Creeks. Sagabeard Creek will receive whole trees and trees with rootwads with a helicopter, while Footlog Creek will receive LWD with a line-pulling machine. In total, 4.5 miles of stream will be restored.

The Gardiner-Reedsport-Winchester Bay Salmon and Trout Enhancement Program (GRWB STEP) was integral in moving this project forward, and will continue to play an important role. Roseburg Resources, Co. is a major landholder in the basin and has again been highly supportive of our efforts. The Coos BLM, ODFW, and Oregon Department of Forestry (ODF) all provided crucial expertise in designing the project. Additional phases will occur in future years and will include boulder and tree placements into the mainstem Camp Creek.

This R&E grant will serve as match for an OWEB grant. The OWEB grant was recommended for funding by OWEB staff (2nd out of 12) and is scheduled to be approved by the OWEB board at their April 29, 2014 meeting.

Objectives:

The objective of this project is to mimic natural stream processes by building habitat restoration structures that address limiting factors of fish production. This will result in more juvenile fish leaving the system, which will result in more adult fish returning.

The limiting factors to be addressed are: lack of summer rearing and winter refuge habitat, instream and overhead cover, excessive flow rates, water quality, and temperature. This will be accomplished through the placement of 113 whole 24" dbh trees, 77 30' logs, and 26 whole trees with rootwads throughout 32 sites on tributaries to Camp Creek. Sagabeard Creek will receive 50 whole trees, and 50 whole trees with rootwads at 15 sites. Footlog Creek will receive 40 pieces of LWD at 11 sites. The materials for Footlog Creek are coming from a recent landslide on the Elliott State Forest, and consist of whole 48" trees with rootwads, 36" logs, and large rootwads. In total, 4.5 miles of stream will be restored.

Fishery Benefits:

Direct tributaries to the Lower Umpqua River are extremely important to coho salmon. Roughly 50% of the coho spawning effort in the Umpqua Basin occurs in this area. The Umpqua River had a wild coho season in 2011, 2012 and 2013, the first in many years. The quotas were 1,500 fish in 2011, and 3000 fish in 2012 and 2013. While this is very positive news, it is also a fragile situation that can quickly be eliminated with a reduced population. The number of returning fish required to have full seeding is 29,400. In 2013, the Umpqua Basin saw 44,600 fish return, putting us very close to not having a season. Thus, it is very important that we put as much effort as possible into highly important tributaries such as the streams addressed in this project. The Lower Umpqua River wild coho fishery is very popular with anglers from throughout the state. In 2012, an estimated 59,209 hours were spent angling for this trophy fish.

Camp Creek is also very important to Chinook salmon and Steelhead. Fall Chinook utilize the mainstem for spawning, while Spring Chinook and Summer Steelhead use it for cool water refuge during hot weather. These three species also entail highly popular fisheries in the Umpqua Basin. This project will ensure that cool water persists in Camp Creek.

Finally, commercial fisheries will benefit due to the higher number of fish produced that can be caught in the ocean.

Watershed Benefits:

Improve stream complexity by the:
-Aggradation of substrates (reduce width-to-depth ratio, provide spawning gravels for salmonids and provide habitat for macroinvertebrates).
-Creation and deepening of pools (provides cold water refuge for juveniles and adult fish in low-flow periods and winter refuge from high flows).
-Narrowing and deepening of stream channels.
-Dissipation of energy to prevent bank erosion.
-Creation of diversity in water depth, flow velocity, substrate and structure.
-Retention of coarse and organic particulate matter.
-Providing habitat for amphibians, insects, small mammals and birds.
Improve riparian vegetation structure by the:
-Dissipation of energy to prevent bank erosion.
Increase species diversity:
-Restore instream, wetland, and riparian areas to provide a variety of habitats for a wide array of fish and wildlife.
Improve floodplain connectivity:
-Connecting the stream with the floodplain.
-Increasing floodplain inundation.
-Creating side channels
Restore species migration patterns:
-Create habitat for migrating, breeding and over-wintering avian species.
-Provide instream habitat for migrating salmonid and lamprey species.
Improve sediment transport:
-Gravel and cobble will move and deposit naturally in the system.
Watershed
Benefits:

Improve water quality:
-Reduction of stream temperature.
-Reduction of sediment and turbidity.
Improve water quantity:
-Raising the water table.

Current Situation:

Camp Creek is located approximately five miles south of Scotsburg, Oregon. The mainstem enters Mill Creek four miles upstream of its confluence at the Lower Umpqua River. The watershed is 13,489 acres and contains over 12 miles of anadromous fish habitat. Chinook salmon, coho salmon, steelhead, cutthroat trout, lamprey, and an array of amphibians live in Camp Creek and its tributaries. Footlog Creek is a tributary to Mill Creek, with its confluence about 5 miles downstream from Camp Creek. This stream contains 2 miles of anadromous fish habitat. Sagabeard Creek is a tributary to the Umpqua River and is located 3 miles north of Camp Creek (see map). This creek was the subject of a fish passage project (completed in 2013) that replaced a fish-blocking culvert.

Camp Creek and Mill Creek have an interesting geography that makes working in this system challenging. A rock outcropping creates waterfalls on both the

mainstem (at 10 miles from the confluence with Mill Creek) and Otter Creek (1/8 mile from its confluence at Camp Creek). These waterfalls form impassable barriers for all fish species at all times of the year. In addition, a natural landslide 1400 years ago created a dam on Mill Creek, which formed Loon Lake. This dam also acts as a barrier to all fish passage. Thus, the amount of fish habitat accessible to anadromous salmonids is highly limited in the Mill Creek/Umpqua River 5-th field watershed.

The mainstem Camp Creek's gradient is low (0-4%), but the channel is bedrock-dominated which prevents the full habitat potential from being reached. The active channel width is 20-50' with very high flows during rain events. As with many in the Umpqua Basin, this system is lacking in habitat diversity. Specifically, the Upper Umpqua River Watershed Assessment (May 2006) rates pools as fair, riparian as fair, riffles as poor, and LWD as poor. Furthermore, natural recovery to proper functioning condition is not likely to occur in the foreseeable future due to the existing road network, loss of floodplain connectivity and reduced sources of large woody debris (LWD) recruitment potential.

Camp Creek's tributaries also are lacking in habitat diversity. While the streams are very gravel-rich, the lack of pools and LWD are limiting fish production. Potential habitat in the Camp Creek watershed is limited due to the previously-mentioned barriers, so it is very important that any areas accessible to anadromous salmonids are restored to as high-quality habitat as possible.

This project is a multi-phase basin-wide restoration effort. In 2013 we were awarded an OWEB grant to restore 2 miles of Buck Creek, an important tributary to Camp Creek. This work was completed in the summer of 2013.
Phase II, for which we are currently seeking R&E funds, involves placement of 163 whole 24" dbh trees, 77 30' logs, and 76 whole trees with rootwads into 3 tributaries to Camp Creek, as well as Sagabeard Creek. In addition, 40 pieces of LWD will be placed in Footlog Creek with a line-pulling machine. (see map). These streams consist of 4.5 miles of critical, yet degraded, habitat. They have a 5-15' channel width and are gravel rich, but lack pools and stable gravel bars to allow maximum spawning effort (see photos). Due to a lack of excavator access, we will be required to use a helicopter (Line-pulling machine for Footlog Creek) to complete this work. While more expensive, we feel that this project is highly worthwhile because the lack of accessible spawning habitat in Camp Creek is limiting salmonid production. It is thus very important to work everywhere that we can in the basin to restore as much habitat as possible. Sites were carefully chosen to provide the most return for our investment. In addition, we chose materials that were of a size suitable for the smaller "Vertol" helicopter. Trees will be purchased from the BLM at a highly reduced cost for placement on Roseburg Resources, Co. lands, and will be donated by BLM for placement on BLM lands. LWD pieces placed in Footlog Creek are from a recent landslide and are being donated by the Elliott State Forest (ODF).

Additional phase(s) will occur in future years and will consist of work in the mainstem, where we will place LWD and boulders in very large structures, with the

goal of restoring summer rearing and winter refuge habitat for the fish that are produced in the tributaries.

During the summer of 2012, the local ODFW Salmon and Trout Restoration Program (STEP) biologist contacted PUR with the opportunity to work on this project. The Gardiner-Reedsport-Winchester Bay (GRWB) STEP volunteers, in cooperation with the STEP biologist, submitted an OWEB application for a project in the mainstem Camp Creek during the April 2011 cycle, but were unsuccessful. Camp Creek, and the Mill Creek drainage, are very important to the GRWB STEP. Mill Creek serves as the main brood collection site for the program, and many volunteers have recreated throughout the basin. While highly motivated, a lack of experience and knowledge of instream restoration encouraged them to seek help with this project. STEP biologists and volunteers assisted with initial project development, and will continue to play an integral part throughout all phases of the project. Among other things, their duties will include: taking photographs of sites during a variety of flow events, conducting spawning ground surveys, assisting with riparian plantings, and augmenting structures with additional LWD (Christmas trees and/or gravel). We are excited to partner with this hard-working group of volunteers.

An important landowner in the project area is Roseburg Resources, Co. (RRCo). Current Forest Practice Act standards are followed by RRCo who actively manage their timber lands in the watershed. RRCo has been a long-standing partner with PUR and we are pleased to be working with the company again. With the involvement of the only other landowner in the watershed, the BLM, we were able to design a project that will greatly benefit fish and wildlife resources, strengthen existing partnerships and create new ones.

PUR has a great deal of experience with projects of this scale. The same team of biologists worked on a very similar project--the West Fork Smith River Instream Restoration Project. Over the course of 2 weeks we placed nearly 1500 logs and trees with a helicopter. We have also completed 4 other helicopter projects, and have funding for another at Scholfield Creek.

Along with its project partners, PUR recently received the American Fisheries Society's highest award. The team was awarded the American Fisheries Society, Western Division 2011 Award for Excellence in Riparian Management. This award was received for special recognition on behalf of the team's effort, interdisciplinary skills and leadership that was applied towards protection, enhancement and overall management of riparian zones throughout the West Fork Smith River Watershed.

Alternatives: We considered using an excavator to place the logs; however this was deemed impractical due to steep cliffs and long distances between the sites and the road. We considered completing the entire project in one phase. This was also found to be impractical due to the heavy work load that we have planned for the summer of 2014. Additionally, the cost of doing all phases at once would be extremely high and difficult to fund. Using the whole watershed restoration approach - starting in the tributaries and moving to the mainstem over several phases - has proven to be a cost-effective and biologically sound restoration process.

We considered placing the LWD pieces on Footlog Creek with a helicopter. This was found to be unnecessary after consultation with a contractor who operates a line-pulling machine. This machine requires some road access, but not as much as an excavator. It is also cheaper and more precise than a helicopter, so we decided to utilize this unique method.

Designer: This project has been fully designed by:

Matt Ruwaldt, PUR Estuary Biologist
Dan Jenkins, ODFW Western Oregon Habitat Biologist
Eric Himmelreich, ODFW Western Oregon Habitat Biologist
Randy Smith, ODF Fish & Wildlife Biologist

Methods: Project Design
Logs will be placed into the stream to meet ODFW standards outlined in “A Guide to Placing Large Wood” (2010). Logs will be keyed into riparian trees. Log structures will be 5-10 logs/trees each and will be built so that the logs are unable to swing out into the current and be swept away. At least two key pieces, each greater than twice the channel width, will be utilized per structure.
We have designed the structures to withstand disturbance events most likely to occur in the watershed such as flooding.

We use properly-sized logs and boulders for instream structures based on ODFW standards and use site-specific designs to reduce the risk of structure failure associated with flooding.

Structures are designed to emulate deposits from natural debris flows. Structures are expected to move slightly in the case of a debris flow, but not to leave the system.

Inspector:	Eric Himmelreich (ODFW), Jen Feola (BLM), and Eric Riley / Matt Ruwaldt (PUR)
Funding Elements:	R&E Funds will be used for helicopter placement, tree purchase (through BLM at a highly reduced cost), and tree cutting. No administrative funds are being requested.

Partners: Yes

-Matt Ruwaldt, PUR Estuary Biologist, has 11 years of biological restoration experience and has coordinated ground crew work on many fish passage and instream restoration projects.
-Jen Feola, BLM Fisheries Biologist, has 10 years of instream restoration design, coordination, and implementation experience, with an addition 9 years of biological experience focused in fisheries, wildlife, and hydrology.
- Eric Himmelreich, ODFW restoration biologist with seven years of experience designing and implementing instream stream restoration projects will assist PUR with the project.

-Eric Riley, PUR's Executive Director, will attend some site visits and supervise the PUR planner. Eric has 7 years of experience working with PUR and an additional 11 years of work on other fish and wildlife related projects. He is successful at bringing groups with diverse interests and backgrounds together to accomplish restoration goals. Eric's supervisory experience includes Battalion Commander of the Springfield Armory where he oversees 820 service members. Eric currently serves as a Lieutenant Colonel for the Oregon Army National Guard.
-Greg Huchko, Umpqua STEP Biologist. He has worked for ODFW for over 7 years as a fisheries biologist as well as 3 years as a fisheries habitat technician and crew leader for the BLM and US Forest Service. He has extensive knowledge of fish habitat requirements, project designs, and monitoring. He currently supervises approximately 200 district volunteers that assist with multiple projects throughout the year.

The above biologists have extensive experience working to enhance and restore fish populations and their habitats within the State of Oregon. At least 30 instream restoration projects have been implemented by members of the team.

Existing Plan: Yes

1. The ODFW High Intrinsic Potential Maps show Camp and Buck Creeks as having low quality winter habitat but high intrinsic potential.
2. Oregon Coastal Coho Assessment states that habitat (stream complexity) and ocean conditions are the highest threat to the ESU viability in 2005 (page 65, Coho Assessment, Part 1: Synthesis). The coho assessment also highlights that the Umpqua Basin is home to 20% of spawning coho from the OR Coast ESU.
3. Oregon Plan for Salmon and Watersheds (1997): This project is a voluntary salmon restoration action that is being undertaken due to coordinated local, state and federal support.
4. Camp Creek Restoration Plan: PUR and ODFW plan to address Camp Creek and its tributaries in several mapped phases.
5. PUR Strategic Plan: Goal 1: Improve Water Quality and Fish Populations, item a: Implement a minimum of 10 instream projects including log and boulder placements. This project is intended to address this strategic plan action item.

Affected Contacted: Yes

Affected Supportive: Yes

Affected Comments: Roseburg Resources, Co. continues to be an excellent partner in this and many other projects in the Umpqua Basin.

Project Schedule/Participants/Funding

Activity	Date	Participants
Pre-Project restoration Scouting	11/1/2012	PUR Staff, STEP and ODFW Biologists
Instream project design	1/5/2013	ODFW & PUR Staff
R&E Grant application	2/22/2013	PUR Staff
Permit Applications	7/1/2014	PUR Staff, ODF Staff
Material aquisition	8/1/2014	PUR & ODFW Staff
Contracting w/ Columbia Helicopters	8/1/2014	PUR Staff
Implementation	10/1/2014	PUR, ODFW, BLM Staff
Cutting hazard alders around sites	9/1/2014	PUR Staff, timber fellers
Monitoring	11/1/2014	PUR Staff
Additional Phases	8/1/2015	PUR, ODFW, BLM Staff

Affected Species:
Chinook Salmon
Coho Salmon
Pacific Lamprey
Sea Run and Resident Cutthroat Trout
Steelhead

Project Permits

Name	Issued By	Secured?	Date Secured	Date Expected
BLM's Programmatic General Authorization	ACOE, DSL	No	1/1/0001	6/1/2014

Project Monitoring

Organization	Address	Activity	Frequency
Partnership for the Umpqua Rivers	1758 NE Airport Road Roseburg, OR 97470	Photo monitoring	Annually for 2 years

Project Maintenance

This project has no maintenance plans.

Project Match Funding

Funding Source	Cash	In-Kind	Other	Description	Total	Secured?	Conditions?	Comments
R&E Request	$52,400.00	$0.00	$0.00		$52,400.00	No	No	
OWEB	$221,397.00	$0.00	$0.00	This grant has been recommended by OWEB staff for funding and is scheduled to be approved by the OWEB board at their April 29th, 2014 meeting.	$221,397.00	No	No	
ODFW	$0.00	$12,619.00	$0.00		$12,619.00	Yes	No	
Coos BLM	$0.00	$31,835.00	$0.00		$31,835.00	Yes	No	
Roseburg Resources, Co.	$0.00	$20,783.00	$0.00		$20,783.00	Yes	No	
Oregon Dept. of Forestry (ODF)	$0.00	$11,500.00	$0.00		$11,500.00	Yes	No	
Gardiner-Reedsport-Winchester Bay STEP	$0.00	$5,130.00	$0.00		$5,130.00	Yes	No	
Umpqua DERBY	$8,000.00	$0.00	$0.00		$8,000.00	No	No	
Meyer Memorial Trust	$2,463.00	$0.00	$0.00		$2,463.00	Yes	No	
				Total Match Funding:	$366,127.00			

Project Budget

Item	Item Type	Units	Unit Cost	R&E Funds	Match Funds	Total
Land Use Form	Administration	1	$60.00	$0.00	$60.00	$60.00
PUR Administrative costs	Administration	1	$15,000.00	$0.00	$15,000.00	$15,000.00
Alder cutting at tree placement sites	Contracted Services	4	$800.00	$0.00	$3,200.00	$3,200.00
BLM conifer cutting to produce materials	Contracted Services	270	$85.00	$4,000.00	$18,950.00	$22,950.00
Helicopter Mobilization	Contracted Services	1	$10,000.00	$0.00	$10,000.00	$10,000.00
Helicopter-Based log & tree placement	Contracted Services	19	$7,000.00	$30,000.00	$103,000.00	$133,000.00
Line-pulling machine-based LWD placement	Contracted Services	40	$500.00	$0.00	$20,000.00	$20,000.00
Log Staging	Contracted Services	24	$40.00	$0.00	$960.00	$960.00
Coos Bay BLM Restoration Biologist	Personnel	10	$350.00	$0.00	$3,500.00	$3,500.00
ODF Fish & Wildlife Biologist	Personnel	5	$300.00	$0.00	$1,500.00	$1,500.00
ODFW STEP Biologist	Personnel	5	$350.00	$0.00	$1,750.00	$1,750.00
ODFW W. OR. Restoration biologists	Personnel	25	$350.00	$0.00	$8,750.00	$8,750.00
PUR Executive Director	Personnel	10	$409.00	$0.00	$4,090.00	$4,090.00
PUR Monitoring personnel	Personnel	2	$987.00	$0.00	$1,974.00	$1,974.00
PUR project management	Personnel	50	$329.00	$0.00	$16,450.00	$16,450.00
Roseburg Resources Timber Mgr.	Personnel	10	$450.00	$0.00	$4,500.00	$4,500.00
STEP Volunteers	Personnel	20	$200.00	$0.00	$4,000.00	$4,000.00
Alders at sites	Supplies/Materials /Services	160	$100.00	$0.00	$16,000.00	$16,000.00
BLM Donated Trees	Supplies/Materials /Services	92	$300.00	$0.00	$27,600.00	$27,600.00
BLM Wyden Amendment trees	Supplies/Materials /Services	178	$300.00	$18,400.00	$35,000.00	$53,400.00
ODF Donated Trees	Supplies/Materials /Services	40	$250.00	$0.00	$10,000.00	$10,000.00
Waders/Boots	Supplies/Materials /Services	2	$125.00	$0.00	$250.00	$250.00
Meals/Lodging	Travel	2	$135.00	$0.00	$270.00	$270.00
Mileage	Travel	13846	$0.50	$0.00	$6,923.00	$6,923.00
					Total Budget:	$366,127.00

Project Map

Additional Files

Click a link to view that particular file.

501c3 tax exemption

Designs and photos

Detailed map

ODFW Letter of Support

Roseburg Resources landowner agreement

Roseburg Resources LOS (For OWEB)

Signature Authorization

Site details

Internal Revenue Service
P.O. Box 2508
Cincinnati, OH 45201

Department of the Treasury

Date: May 4, 2006

PARTNERSHIP FOR THE UMPQUA RIVERS
% KEN FERGUSON PRES
1758 NE AIRPORT RD
ROSEBURG OR 97470-1419

Person to Contact:
Sophia Brown
ID# 31-03530
Toll Free Telephone Number:
877-829-5500
Employer Identification Number:
93-1298800

Dear Sir or Madam:

This is in response to your request of March 7, 2006, regarding your tax-exempt status.

Our records indicate that a determination letter was issued in December 2001 that recognized you as exempt from Federal income tax. Our records further indicate that you are currently exempt under section 501(c)(3 of the Internal Revenue Code.

Our records also indicate you are not a private foundation within the meaning of section 509(a) of the Code because you are described in section 509(a)(1) and 170(b)(1)(A)(vi).

Donors may deduct contributions to you as provided in section 170 of the Code. Bequests, legacies, devises, transfers, or gifts to you or for your use are deductible for federal estate and gift tax purposes if they meet the applicable provisions of sections 2055, 2106, and 2522 of the Code.

If you have any questions, please call us at the telephone number shown in the heading of this letter.

Sincerely,

[redacted]

Cindy Westcott
Manager, Exempt Organizations
Determinations

Signature Authorization Page

I hereby make an application for financial assistance under the terms and conditions of the R&E Program as described in my project application.

I understand that if my project is approved for funding, the following will apply:

- All project sponsors must sign a grant agreement containing the terms and conditions on which funding will be released.
- Project expenses which occur before the grant agreement is signed or after the expiration date will not be paid by the R&E Program.
- Copies of all necessary permits must be submitted to the R&E Program.
- Project sponsors must certify compliance with local, state, and federal regulations and laws.
- Landowner, monitoring and maintenance agreements must be submitted to the R&E Program.
- Regular progress reports may be required, and at the end of each project a Completion Report must be submitted.
- Educational products resulting from projects are public domain.
- All information submitted to either party under this application is subject to the federal Freedom of Information Act.

Project Title: Camp Creek Phase II

Applicant: Partnership for the Umpqua Rivers

Date: 2/21/13

Fiscal Officer: [redacted]

Date: 2-21-13

Oregon
Theodore R. Kulongoski, Governor

Department of Fish and Wildlife
Umpqua Watershed District Office
4192 North Umpqua Highway
Roseburg, OR 97470
(541) 440-3353
FAX (541) 673-0372

April 3, 2014

ODFW Restoration & Enhancement Program
3406 Cherry Ave NE
Salem, OR 97303

Re: Camp Creek Phase II Restoration Grant

To Whom It May Concern:

The Partnership for the Umpqua Rivers (PUR) has worked closely with the Oregon Department of Fish and Wildlife's (ODFW) Western Oregon Stream Restoration Program biologist to develop this instream habitat restoration project on tributaries to Camp Creek. ODFW has found that this proposed project meets the goals of the State of Oregon by utilizing local efforts to accomplish on-the-ground restoration of habitats important to the protection and enhancement of coho salmon, winter steelhead and cutthroat trout.

This project effectively combines the efforts of the ODFW, PUR and private landowners to meet the intent of the State of Oregon's *Oregon Plan for Salmon and Watersheds* as well as Oregon's *Coastal Coho Conservation Plan*. The area has been identified by the *ODFW High Intrinsic Potential Analysis* as a high priority area in which to conduct habitat restoration efforts.

The placement of large wood habitat restoration structures within the tributaries of Camp Creek and Mill Creek will: enhance rearing sites used by resident and anadromous species by scouring and maintaining complex pool habitats, establishing suitable spawning sites and offering greater protective cover and winter refuge habitat within the project area. This project will assure enhanced production and increased survival of juvenile coho salmon, winter steelhead and cutthroat trout within the Camp Creek drainage.

In short: this project will enhance fish production within the Camp Creek Drainage.

The Umpqua District ODFW supports this project as part of our mission to protect and enhance Oregon's fish and wildlife and their habitats for use and enjoyment by present and future generations. ODFW will contribute a total of $12,619 as an in-kind match for 30 days of work by ODFW Habitat Biologist, including mileage. ODFW volunteers will also contribute a total of $4,536 for in-kind labor towards the project.

Thank you and please feel free to contact us with any questions regarding this project.

Sincerely,

Eric Himmelreich
Habitat Restoration Biologist
Oregon Department of Fish and Wildlife
Umpqua Watershed District

cc Laura Jackson, District Biologist

ROSEBURG
RESOURCES CO.

October 17, 2013

Eric Riley
Partnership for the Umpqua Rivers
1758 NE Airport Road
Roseburg, OR 97470

Re: Letter of support for Proposed Camp Crk and Associated Tribs project

Dear Mr. Riley:

I am writing this letter in support of Partnership for the Umpqua Rivers (PUR) grant proposal to OWEB to secure funding to help enhance the fish habitat in the Camp Creek watershed. We believe that PUR, ODF&W, and the BLM have developed a sound plan for enhancement and this project will fit nicely with work already planned in the drainage.

Roseburg Resources is committed to supporting restoration projects like this and on behalf of our land holding company, Rome Creek Timber, LLC, is proud to contribute $20,783 of in-kind support for this grant application.

I can be reached at 541-271-0159 x 55019 or by email at timt@rfpco.com if you have any questions. Thank you for your interest in this project.

Sincerely,

Tim Truax

Tim Truax
District Forester – Reedsport Area
On behalf of Rome Creek Timber, LLC

Partnership for the Umpqua Rivers

Your Watershed Council

WATERSHED RESTORATION AGREEMENT

Between

Roseburg Resources Company (Landowners) **and** **Partnership for the Umpqua Rivers** (Project Managing Organization)

Project Name: Camp Creek Instream Restoration

Project Number: WRA-CampCrk-030513

The purpose of this Watershed Restoration Agreement between the Landowners (OWNER) and the Partnership for the Umpqua Rivers (PARTNERSHIP) is to clarify and assign project responsibilities.

Owner(s):	Roseburg Resources Co.
Address:	P.O. Box 1088
City/State/Zip:	Roseburg, OR 97470
County:	Douglas
Phone:	541-679-2650
TRS:	T23N R9W Sect 4, 9, 10

Estimated Funding & In-kind Contributions:

Cash (Grants + out-of-pocket expenses: material, labor & equipment)

• **Oregon Watershed Enhancement Board (OWEB)**	**$ 92,539.00**
• **Coos BLM (Title II & Appropriated Funds)**	**$ 32,999.00**
• **ODFW (inkind)**	**$ 17,343.00**
• **Roseburg Resources (inkind)**	**$ 7,600.00**
• **STEP (inkind)**	**$ 4,333.00**
• **Umpqua Derby**	**$ 3,000.00**
• **Meyer Memorial Trust**	**$ 1,296.00**
Estimated Total Project Costs:	**$ 159,110.00**

This Watershed Restoration Agreement is entered into to accomplish the following tasks for the following purposes:

Task(s)	Purpose(s)
Build instream habitat structures using a combination of large wood and boulders in Camp Creek and associated tributaries.	**These creeks will be restored to improved summer rearing and winter refuge habitat for coho and steelhead salmon.**

Prior to the release of grant funding, the Landowner must certify by signature that the following conditions will be met:

1. Landowner certifies that they own the land where the work will be carried out.
2. Landowner agrees to allow PUR (grantee) to carry out the work on the landowner's property.
3. Landowner agrees to allow maintenance (photos for reporting) of the work over the two years of the grant.
4. Landowner agrees to allow OWEB (grantor) Board and its representatives access to the site where work is being carried out for inspection and evaluation by giving the landowner two weeks notice.
5. Landowner acknowledges that information relating to the work is public record, including effectiveness monitoring data.
6. Landowner acknowledges by signature that they are aware of the application to OWEB by PUR.

AGREED, the parties have executed this Agreement on the day, month, and year last indicated:

Owner(s)

By: [redacted] Date: 3/8/13

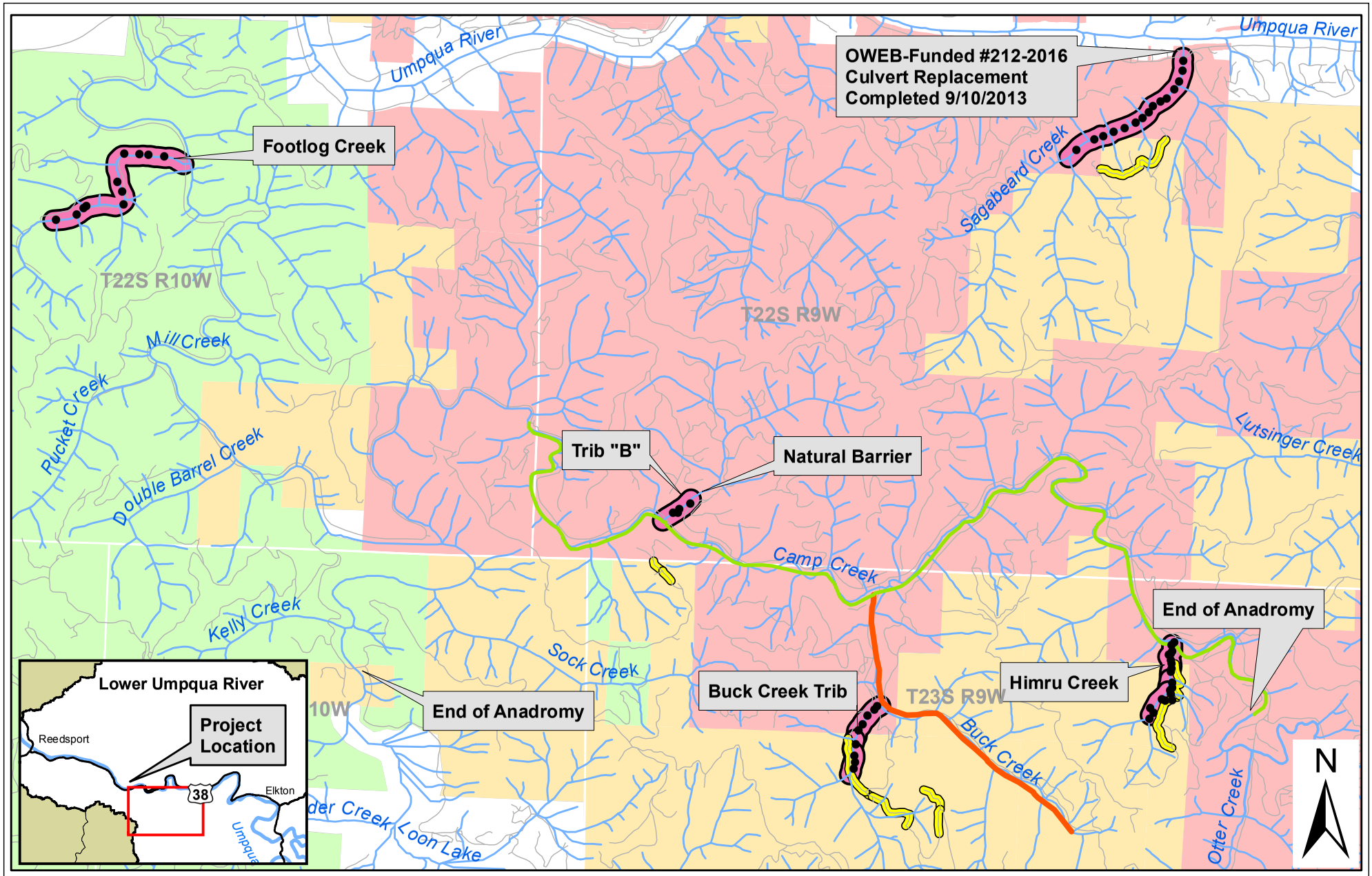
(Roseburg Resources Company)

Partnership for the Umpqua Rivers

By: [redacted] Date: 3/5/13

(Eric Riley)

Title: Executive Director



Camp Creek and Associated Tributaries Instream Restoration

Camp Creek Tributaries & Sagabeard Creek Site Details

Tributary	Site Name	Trees	Logs	Trees w/ rootwads	Landowner
Himru Creek	TF01	0	8		RRCo
Himru Creek	TF02	0	6		RRCo
Himru Creek	TF03	0	6		RRCo
Himru Creek	TF04	3	4		RRCo
Himru Creek	TF05	5			RRCo
Himru Creek	TF06	2	4		RRCo
Himru Creek	TF07	5			RRCo
Himru Creek	TF08	2	4	2	BLM
Himru Creek	TF09	2	4	2	BLM
Himru Creek	TF10	3		2	BLM
Himru Creek	TF11	3	3		BLM
Himru Creek	TF12	3		2	BLM
Himru Creek	TF13	5	3		BLM
Himru Creek	TF14	4	4		BLM
Himru Creek	TF15	2	4		BLM
Himru Creek	TF16	4	3		BLM
Himru Creek	TF17	5		5	BLM
Himru Creek	TF18	4			BLM
Himru Creek	TF19	4			BLM
Buck Creek Trib	BCT1	6		2	RRCo
Buck Creek Trib	BCT2	8			RRCo
Buck Creek Trib	BCT3	6		4	RRCo
Buck Creek Trib	BCT4	3		3	RRCo
Buck Creek Trib	BCT5	10			RRCo
Buck Creek Trib	BCT6	4		2	BLM
Buck Creek Trib	BCT7	6			BLM
Buck Creek Trib	BCT8	4		2	BLM
Buck Creek Trib	BCT9	10			BLM
Trib "B"	TB1		6		RRCo
Trib "B"	TB2		6		RRCo
Trib "B"	TB3		6		RRCo
Trib "B"	TB4		6		RRCo
Sagabeard Creek	S1	3		3	RRCo
Sagabeard Creek	S2	3		4	RRCo
Sagabeard Creek	S3	2		4	RRCo
Sagabeard Creek	S4	4		2	RRCo
Sagabeard Creek	S5	3		3	RRCo
Sagabeard Creek	S6	4		4	RRCo
Sagabeard Creek	S7	4		3	RRCo
Sagabeard Creek	S8	3		4	RRCo
Sagabeard Creek	S9	4		3	RRCo
Sagabeard Creek	S10	5		2	RRCo
Sagabeard Creek	S11	3		4	RRCo
Sagabeard Creek	S12	2		3	RRCo
Sagabeard Creek	S13	3		4	RRCo
Sagabeard Creek	S14	3		4	RRCo
Sagabeard Creek	S15	4		3	RRCo
TOTALS		**163**	**77**	**76**	

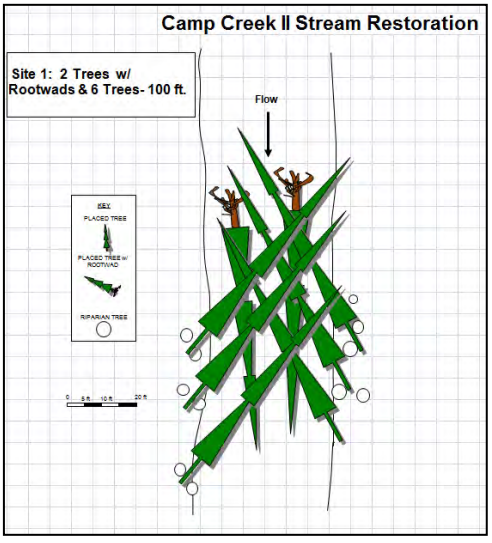
Camp Creek & Associated Tributaries Instream Restoration

Representative Sites and Designs

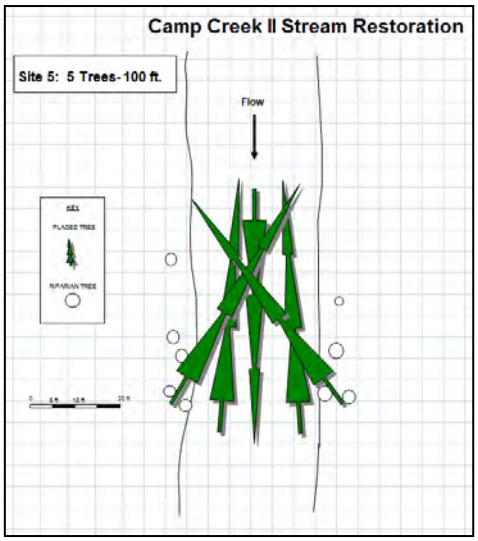
ODFW and PUR biologists designed this project to withstand natural events most likely to occur in the watershed such as flooding and localized debris flows. 48 structures will be implemented with a helicopter on 3.5 miles of Camp Creek tributaries and the mainstem Sagabeard Creek. A total of 163 cut trees, 76 trees with rootwads, and 77 logs will be placed in this area. 11 structures will be placed with a line-pulling machine on 1 mile of Footlog Creek. 40 pieces of LWD from a nearby landslide will be placed in this area. Sites are designed with properly sized materials in accordance with the ODFW Guide to Placement of Wood, Boulders, and Gravel for Habitat Restoration (Jan. 2010). Sites were designed based on the lessons learned and results from past successful helicopter placement projects such as Charlotte Creek, Luder Creek and West Fork Smith River. Sites have been designed to simulate flow deposits from natural riparian blowdown. Structures are intended to collect stream substrate and large woody debris and as a result create instream and overhead cover, spawning, summer rearing and winter refuge habitat.

Helicopter-Based Placements:

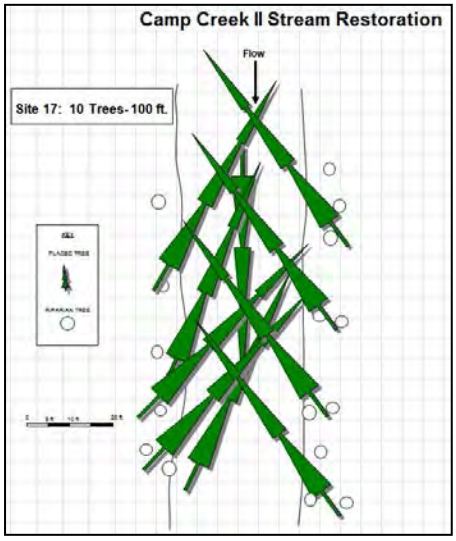
Site 1: 2 Trees w/ Rootwads and 6 Cut Trees (Buck Creek Trib.)



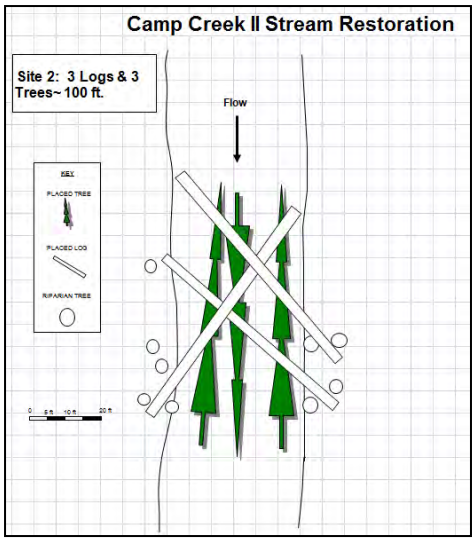
Site 5: 5 Trees (Himru Creek)



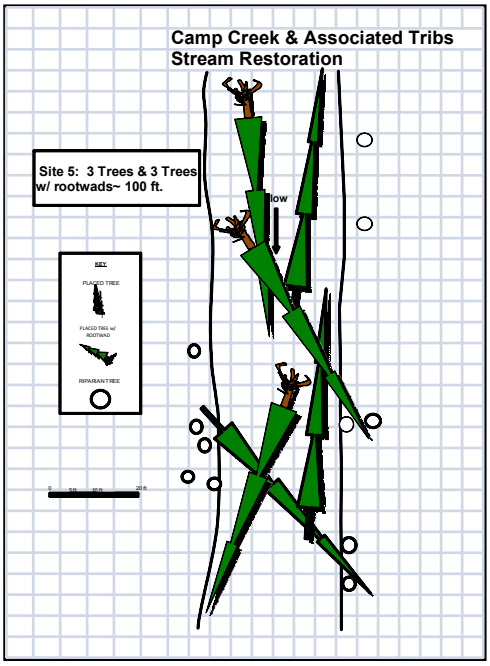
Site 17: 10 Trees (Himru Creek)



Site 4: 3 Logs and 3 Trees (Buck Creek Trib)



Site 5: 3 Trees and 3 Trees with rootwads (Sagabeard Creek)



Line-Pulling Machine-Based Placements:

Site 3: Footlog Creek. This site will receive 48” diameter logs (2) and 30’ logs with rootwads (2) from a nearby landslide. It is intended to collect stream substrate and create diversity in the stream channel.

Site 6: Footlog Creek. This site will receive one whole 48” dbh tree, 20’ logs with rootwads (2), and 36” diameter 30’ logs (2) from a nearby landslide. It is intended to collect stream substrate and coarse woody debris, which will create spawning, summer rearing and winter refuge habitat and provide overhead cover.