



R & E Grant Application 17-19 Biennium

Project #: 17-061

Big Creek SubBasin Instream Restoration Helicopter

Project Information

Requested Cycle: 17-7
R&E Project Request: \$31,750
Other Funding: \$509,037
Total Project: \$540,787
Spending Start Date: 7/1/2017
Spending End Date: 6/30/2019
Project Start Date: 1/1/2019
Project End Date: 10/31/2019
Organization: Smith River Watershed Council (Tax ID #: 82-0539434)

Fiscal Officer

Name: Jeanne Dausel
Address: PO Box #114
Reedsport, OR 97467
Telephone: 541-271-2223
Email: smithriverwatershed@yahoo.com

Applicant Information

Name: Brian Jenkins
Address: PO Box #114
Reedsport, OR 97467
Telephone: 541-271-2223
Telephone 2: 541-294-6843
Email: jenkins.smithriver@gmail.com

Past Recommended or Completed Projects

This applicant has no previous projects that match criteria.

Authorized Agent

Name: Brian Jenkins
Address: PO Box #114
Reedsport, OR 97467
Telephone: 541-271-2223
Telephone 2: 541-294-6843

Email: jenkins.smithriver@gmail.com

Location Information

Where is it?

The project will occur on public land owned or managed by another party
The project will occur on private land owned or managed by another party

Landowner Information

Name: Bureau of Land Management
Affiliation: Project Partner
Address: 1300 Airport Ln
North Bend, OR, 97459
Phone: 541-756-0100
Email: jfeola@blm.gov

Name: Roseburg Forest Products/ Oxbow Timber
Affiliation: Project Partner
Address: 1610 Sheridan ave
North Bend, OR, 97459
Phone: 541-271-01559 ex55019
Email: timt@rfpc.com

Site Description

Street Address, nearest intersection, or other descriptive location.

Project area is located 30 miles South West of Eugene and 25 miles Northeast of Reedsport.
OR-38 and Big-Weatherly Creek Road is the nearest major junction.

Directions to the site from the nearest highway junction.

Access from junction of Oregon Highway 38 Big-Weatherly Cr Road, OR-38 mile marker 31.
Take Big-Weatherly Cr Road. Drive 9 miles to headwaters of Big Creek sites, 12.2 to Argue Creek. Drive another mile on Big-Weatherly to junction. From the Big Cr./ Smith River Junction turn right and drive 0.2 miles to the mouth of Blind Creek. At Big/Smith River Junction turn left and drive: 3.7mi to Devils Club Cr., 9mi to Slide Creek., 13mi to Coldwater Cr., 1.8 miles to Marsh Creek and 13.5mi to Clearwater Creek.

Following project completion, public anglers will be allowed the following level of access to the project site:

Limited access

Please describe what leases, easements, agreements are in place to ensure angler access to the project site, and what is the length of each agreement.

All ownerships in the sub-basin are open for access outside of fire season. The majority of the lands in the Big Creek sub-basin are federally managed by the BLM and open to the public. All privately owned lands are owned by Roseburg Resources/ Oxbow Timber 1 LLC. These lands are open for public use except during elevated fire danger levels.

Dominant Land Use Type:

Forest

Project Location

General Project Location.

County: Douglas
Town/City: Elkton
ODFW Dist: Umpqua
Stream/Lake/Estuary Name: Clearwater, Coldwater, Slide, Devils Club, Blind, Argue and Marsh Creeks
Sub-basin: 1710030307
Tributary of: Smith River

Specific Project Location.

Latitude	Longitude
43.759414	-123.674404

Project Summary

Project Summary

Please provide a couple sentence summary of the proposal.

This is the final phase of instream wood placements in the Big Creek Sixth field HUC. 635 Logs and 94 Whole trees will be placed across 5.2 miles in 7 tributaries by helicopter and directional falling.

Overall Project Goals

Describe the primary goals or outcomes of the entire project, including elements not requesting funding from R&E.

Increase Aquatic Habitat Productivity: This project is expected to benefit all species of fish present in the Big Creek sub-watershed. These structures will directly increase habitat complexity, cover and pool depth. Substrates will be deposited at structure sites and system wide due to the reductions in water velocities.

Primary objectives of R&E funding

Please describe the measurable objectives for the R&E portion of the funding request.

Increased habitat complexity and Juvenile salmonid counts (ODFW- Aquatic Inventories)
Increased spawning adults (ODFW- OASIS and LCM programs)(Trout Unlimited- fifth field HUC Didson monitoring)
Increased Recreation/commercial catch (ODFW- Creel surveys)

Current Situation/Justification

Please describe the current situation and explain why this funding is needed.

Due to the historical land use practices of splash damming, stream cleaning and riparian timber harvest. Current anadromous production is reduced for all species present in the Big Creek Hydrologic unit. Fall Chinook salmon production is currently limited by lack of spawning gravels and complex food producing habitats. Chinook hatch in the spring and grow rapidly as they migrate to the estuary as water temperatures increase approaching the summer season. Low over winter survival is currently the greatest limiting factor for Coho and Steelhead production in much of coastal Oregon according to the Oregon Department of Fish and Wildlife (ODFW). Simplified habitats and lack of floodplain connectivity have greatly reduced the availability of winter refuge and slow water habitats available to salmonids during high winter flow events.

Summer rearing of Coho and Steelhead is currently limited by the lack of large complex pools. Many of these reaches lack of suitable substrates for spawning, juvenile rearing, macro-invertebrate production, channel complexity and thermal mitigation.

Recreation and Commercial Benefit

This project will provide benefits to:

Recreational fisheries
Commercial fisheries

Explain how this project will contribute to current (and/or potential) fishing opportunities, access, or fisheries management.

Current anadromous production is reduced for all species present in the South Fork Smith River and Halfway Creek. Fall Chinook salmon production is currently limited by lack of spawning gravels and complex food producing habitats. Increasing available spawning habitat through the deposition of spawning gravels and providing more productive rearing habitat through structure complexity and floodplain connectivity can contribute to increased recruitment. Low over winter survival is currently the greatest limiting factor for Coho and Steelhead production in much of coastal Oregon according to the Oregon Department of Fish and Wildlife (ODFW). Simplified habitats and lack of floodplain connectivity have greatly reduced the availability of winter refuge and slow water habitats available to salmonids during high winter flow events. Summer rearing of Coho and Steelhead is currently limited by the lack of large complex pools. Many of these reaches lack of suitable substrates for spawning, juvenile rearing, macro-invertebrate production, channel complexity and thermal mitigation. By mitigating these issues essential to anadromous salmonid recruitment, commercial and recreational fisheries will be supplemented by greater stocks.

Percent benefit split between Commercial and Recreational anglers:

50 % Commercial
50 % Recreational

Please explain, or justify, how the percentage split was determined:

This project will benefit both Commercial and Recreational anglers equally through increased returns as fisheries population recovery.

This project has been identified as an ODFW priority for:

Local/watershed
Basin/regional
Statewide

Does this project directly support implementation of the ODFW Strategic Plan and/or current Fish Division priorities?

Please briefly explain when this was identified as a priority and what process or workgroup was used to identified this as an ODFW priority.

Identify any plan or other document that identifies this priority.

Oregon Coho Recovery Plan (2007)
ODFW's Coastal Multispecies Conservation and Management Plan (2014)
Smith River Watershed Council Action Plan (2016)
BLM Western Oregon Aquatic Restoration Strategy (2015)

Is this project part of an approved Salmon-Trout Enhancement Program (STEP) activity?

No

This project is intended to benefit the following species:

Fall Chinook Salmon
Coho Salmon
Lamprey
Winter Steelhead
Cutthroat Trout
Rainbow Trout

This project will benefit anglers or fishery by providing:

Habitat Enhancements

Habitat Enhancements

The primary purpose of this project is to improve/increase:

In water structure, complexity, and habitat
Flow and/or connectivity
Water quality

Project Description

Schedule

Activity	Date	RE Funding
Pre-project monitoring and Permit acquisition	1/2019 - 2/2019	No
Material acquisition and staging	1/2019 - 6/2019	Yes
Contracting	1/2019 - 5/2019	No
Helicopter placements and project inspection	10/2019	No
Post-project reporting	11/2019	No

Permits

Permit	Secured?	Date Expected
USACE/DSL Joint Permit secured by BLM under ARBO II Programmatic	Yes	
DEQ 401 Certification secured by BLM under ARBO II Programmatic	Yes	
Douglas County Land Use Permit	No	1/2019
NEPA	Yes	

Project Design and Description

Please describe in detail the methods or approach that will be used to achieve the project objectives.

SRWC's Brian Jenkins, ODFW's Eric Himmelreich and the BLM's Jen Feola have worked collaboratively to design log structures to slow water velocities, increase sediment deposition, trap large wood and contribute to recovery of aquatic populations. We will use logs of length and size based on standards within the ODFW Guide to Placement of Wood, Boulders and Gravel for Habitat Restoration (2010) and the Aquatic Restoration Biological Opinion (ARBO II- 2013). Standing riparian trees and natural pinch points will be used to anchor materials in place. Structures are designed to simulate deposits from natural debris flows. Structures are expected to move or shift slightly during high flows but not leave the system.

Engineering

Does the project involve capital improvement, engineering, site grading or other construction?

No

Project Management and Maintenance

What is the life expectancy of R&E funded construction, structures, equipment, supplies, data or fishery?

Life expectancy of large wood structures is variable. These pieces of large wood should remain relatively intact for 30 years or more. No future treatments are planned as we expect natural wood recruitment in the future.

Who is responsible for long term management, maintenance, and oversight of the project beyond what is funded by R&E.

No maintenance is expected.

Will the project require ongoing maintenance?

No

Is there a plan to collect baseline data and to conduct monitoring efforts to measure the effectiveness of the project?

No

Project Funding

Funding

Have you applied for OWEB funding for this project?

Yes

OWEB application number: 218-2005-15608

Received an award.

Has this proposal, or similar proposal for this project location, previously been denied by OWEB or other funding source?

[{"source":"Bureau of Land Management","type":"Cash","secured":"Secured","dollarValue":70000,"comments":"\$60,000 Approved for\n2016 cycle. \$10,000\napproved for 2017\ncycle."},{ "source":"Bureau of Land Management","type":"In-Kind","secured":"Secured","dollarValue":114022,"comments":"BLM trees donated\nfor instream\nplacement"}, {"source":"Bureau of Land Management","type":"In-Kind","secured":"Secured","dollarValue":21600,"comments":"Alders cut for\nexcavator corridors\nand helicopter\nand daylighting, will be cut\nand placed instream"}, {"source":"Bureau of Land Management","type":"In-Kind","secured":"Secured","dollarValue":5250,"comments":"BLM Biologist Staff\nTime"}, {"source":"Bureau of Land Management","type":"In-Kind","secured":"Secured","dollarValue":930,"comments":"BLM mileage (17 trips\n@ 100+ mi X \$0.54)"}, {"source":"Bureau of Land Management","type":"Cash","secured":"Secured","dollarValue":68500,"comments":"Awarded during the\n2015-2016 fiscal year"}, {"source":"Roseburg Resources Co./ Oxbow Timber 1","type":"In-Kind","secured":"Secured","dollarValue":15200,"comments":"38 donated trees"}, {"source":"Roseburg Resources Co./ Oxbow Timber 1","type":"In-Kind","secured":"Secured","dollarValue":6200,"comments":"Riparian alders to be\ntaken for helicopter\naccess. Alders will be\nplaced instream."}, {"source":"Roseburg Resources Co./ Oxbow Timber 1","type":"In-Kind","secured":"Secured","dollarValue":3150,"comments":"RRC Forester site\nproject inspection and\noversight for\nplacements on their\nproperty."}, {"source":"Roseburg Resources Co./ Oxbow Timber 1","type":"In-"}]

Kind", "secured": "Secured", "dollarValue": 265, "comments": "RRC Mileage"}, {"source": "Oregon Watershed Enhancement Board", "type": "Cash", "secured": "Secured", "dollarValue": 186557, "comments": "Funded May 2017 cycle"}, {"source": "Oregon Department of Fish and Wildlife", "type": "In-Kind", "secured": "Secured", "dollarValue": 11363, "comments": "30 days of project management; Labor and Travel"}, {"source": "Douglas County Timber Operators-Umpqua Fishery Enhancement Derby", "type": "Cash", "secured": "Pending", "dollarValue": 6000, "comments": "Private"}]

Other Funding Source	Type	Secured	Dollar Value	Comments
Bureau of Land Management	Cash	Secured	70000	\$60,000 Approved for 2016 cycle. \$10,000 approved for 2017 cycle.
Bureau of Land Management	In-Kind	Secured	114022	BLM trees donated for instream placement
Bureau of Land Management	In-Kind	Secured	21600	Alders cut for excavator corridors and helicopter daylighting, will be cut and placed instream
Bureau of Land Management	In-Kind	Secured	5250	BLM Biologist Staff Time
Bureau of Land Management	In-Kind	Secured	930	BLM mileage (17 trips @ 100+ mi X \$0.54)
Bureau of Land Management	Cash	Secured	68500	Awarded during the 2015-2016 fiscal year
Roseburg Resources Co./ Oxbow Timber 1	In-Kind	Secured	15200	38 donated trees
Roseburg Resources Co./ Oxbow Timber 1	In-Kind	Secured	6200	Riparian alders to be taken for helicopter access. Alders will be placed instream.
Roseburg Resources Co./ Oxbow Timber 1	In-Kind	Secured	3150	RRC Forester site project inspection and oversight for placements on their property.
Roseburg Resources Co./ Oxbow Timber 1	In-Kind	Secured	265	RRC Mileage
Oregon Watershed Enhancement Board	Cash	Secured	186557	Funded May 2017 cycle
Oregon Department of Fish and Wildlife	In-Kind	Secured	11363	30 days of project management; Labor and Travel
Douglas County Timber Operators-Umpqua Fishery Enhancement Derby	Cash	Pending	6000	Private
		Total	509037	

Budget

Item	Unit Number	Unit Cost	In-kind or non-cash contributions	Funding from other sources	R&E Funds	Total Costs
PROJECT MANAGEMENT						
Coordinator	320	27.00	0	8640	0	8640
		SUBTOTAL	0	8640	0	8640
IN-HOUSE PERSONNEL						
			0	0	0	0
		SUBTOTAL	0	0	0	0
CONTRACTED SERVICES						
Helicopter Mobilization	1	25000.00	0	25000	0	25000
Felling, Bucking and Decking of trees	318	55.00	0	17490	0	17490
Hauling and staging of logs	635	50.00	0	0	31750	31750
Alder Cutting for Helicopter Daylighting (days)	12	400.00	0	4800	0	4800
Helicopter Hourly Rate	32	7500.00	0	240000	0	240000
BLM Fisheries Biologist	150	35.00	5250	0	0	5250
ODFW Habitat Biologist	300	35.00	10500	0	0	10500
RRC Forester	70	45.00	3150	0	0	3150
		SUBTOTAL	18900	287290	31750	337940
TRAVEL						
30 Trips at 100 miles each	3000	0.54	0	1620	0	1620
BLM Mileage	1722	0.54	930	0	0	930
ODFW Mileage	1598	0.54	863	0	0	863
RRC Mileage	490	0.54	265	0	0	265
		SUBTOTAL	2058	1620	0	3678
SUPPLIES/MATERIALS						
BLM Donated Trees (24-36")	308	370.20	114022	0	0	114022
Purchased Trees (24-36")	44	350.00	0	15400	0	15400
Alders, Cut for Helicopter	278	100.00	27800	0	0	27800
RRC Donated Trees (24-36"	38	400.00	15200	0	0	15200
Douglas County Land Use Permit	1	165.00	0	165	0	165
		SUBTOTAL	157022	15565	0	172587
EDUCATION/OUTREACH						
			0	0	0	0
		SUBTOTAL	0	0	0	0
EQUIPMENT						
			0	0	0	0
		SUBTOTAL	0	0	0	0
FISCAL ADMINISTRATION						
Indirect Costs, Federa; Iminimus'	0	0.00	0	16862	0	16862
Post Implementation Status Reporting	2	540.00	0	1080	0	1080
		SUBTOTAL	0	17942	0	17942
		BUDGET TOTAL	177980	331057	31750	540787

Internal Review Results

Review Score: 0.8 out of 3

(0 = Do Not Fund, 1 = Strengthen Proposal, 2 = Recommend, 3 = Strongly Recommend)

Summary of Review Team Comments

The review team was not very supportive of this project as proposed. While it may be a decent watershed restoration project, the application currently does not clearly demonstrate the need for the project, population benefits of the project, the priority of the project, or a strong connection to angler benefits by tangibly enhancing the fish populations. Without more information it would be hard to demonstrate this proposal is consistent with current program priorities. Scores included three 0s, five 1s, and one 2.

Specific Review Team Comments

This project occurs on land where there is no direct angling access, any benefits would be to downstream use.

While this seems like it could be a worthwhile restoration project it is likely not consistent with guidance from the RE board for projects that directly and tangibly benefit fish populations in a way that will benefit anglers. Applicant may want to discuss this guidance with the RE Coordinator, then clearly articulate the benefits in the application. Some things to cover include:

- o Is this population identified as a priority in the ODFW Coastal Multispecies Plan (CMP)? Is this project consistent with the actions identified within that plan.
- o a) Coho: Delisting of Coho is an identified top priority of the Board and ODFW, projects that will provide tangible benefits to those populations are preferred as delisting will result in an increase of management flexibility and increased opportunity.
- o i) Providing support for projects that are specifically identified by the Coho Strategic Action Plans is a priority of the board, as these projects are the result of multi-agency planning with a focus on delisting.
- o ii) As identified in the CMP, over winter habitat, not passage, is a primary limiting factor for Coho. Over winter projects must demonstrate how they are part of a larger plan to create high quality habitat as described in the CMP.
- o What is the size of these populations? What is the expected uplift to population size? How many more fish will be available to anglers and commercial fisheries?

Project mentions Halfway Creek, yet Halfway Creek is not identified in the general project location where the actions will take place. The project map nor the photos show or describe Halfway Creek.

A more thorough and detailed description of how and why this project is needed, and why it is a priority is needed. The narrative reads as if it is assumed this action(s) is a priority, but only a general reference to the priority is provided.

The applicant needs to defend what they are asking for, why it is needed, and expected uplift. In the watershed, is this project a drop in the bucket, a lynch pin, or the one action that will precipitate system wide changes. Make sure to clearly show how this one action fits into the bigger picture of habitat restoration and population recovery.

Specific Review Team Questions

Why do you need the R&E money? What would happen if it were not funded? This is \$32K out of a \$550K request, to haul and stage logs. How could you get all the other funding secured but not be

able to complete such a critical and early step? Is this needed as match for OWEB? If so, why don't the other sources qualify as match?

R&E funds are needed to pay for contracted services. We have not secured the funds needed to fully implement the scope of the project outlined in the application.

If this R&E application is not funded the entire project will be scaled down in size with log hauling being paid for through one of the other secured funding sources listed in the application. This budget was developed to allow for funding to be expending this biennium.

Pursuing match funding is a critical part of securing OWEB funding. OWEB cannot fully fund all of the restoration projects that it would recommend for funding. All other sources of funding qualify listed in this application qualify as OWEB match. Previous conversions with ODFW staff recommended applying for R&E funding once OWEB funding was secured. OWEB secured funding agreements can be extending beyond the biennium the funding was awarded where R&E funding is less flexible.

No work is occurring from June Through September, with helicopter placement of logs then occurring in October. Any reason for not working during the summer?

This project is in partnership with the BLM. Marbled murrelet and spotted owl restrictions do not allow for helicopter work to be done before October 1. See pages 60, 6d 67 of USFWS ESA document.

Photos of the site locations appear to depict relatively functional streams, some of which show a fair bit of LWM present. Along with wood, the riparian area next to the stream appears well developed and the stream bed seems to have a fair amount of smaller material and not much exposed bedrock. Does this stream actually need this project? How will placement of LWM enhance stream flow?

Smaller woody material is present in these streams. Large material is lacking. While there are shallow substrate deposits, these are not the deep bed historically found in this region that contribute to water retention and hyporheic flow. Large wood structures will trap small wood and substrates.

The proposal says that they do not expect to have to replace any of the structures over time because they expect natural recruitment to be sufficient to source future wood. Is the riparian stand age composition really consistent with the expectation of sufficient large wood recruitment within 30 years?

The riparian structure will allow for large wood inputs overtime. The previous question refers to the well developed riparian area.

Project Map

Project map is not defined or error creating map.

Additional Files

Budget Information

Maps

[Project Map](#)

Project area and individual creek maps

[Vicinity Map](#)

Photos

[Photopoints](#)

Design Information

[Design Drawings](#)

Completed by Eric Himmelreich of ODFW, Habitat Biologist

Management Plans and Supporting Documents

Permits and Reviews

Partnerships

Public Comment

[BLM Letter of Support](#)

Inkind and cash contributions

[ODFW Letter of Support](#)

Support and Project Management

[Roseburg Letter of Support](#)

Roseburg Resources Support and Inkind

Administrative Documents

[501c3 verification](#)

IRS Letter

[Signature Page](#)

Completion Report

A completion report has not been submitted for this project.