



Project Information - Give a descriptive name that consists of the name of the creek, landowner's name, and 3-5 word description of the kind of project.

Title: Catherine Creek - 44 Stream and Fish Habitat Restoration, Phase II
Prime Sponsor: Union Soil and Water Conservation District
Support Sponsor(s):

Technical Contact - List the main contact for the project.

Name: Craig Schellsmidt
Organization: Union Soil and Water Conservation District
Phone: 541-963-1313 Email: unionswcd@hotmail.com

Landowner(s) and Agencies - List all landowners and agencies involved.

Name: Glen Smith
Phone: 541-701-7895 Email:
Address: 1817 SW 45th Pendleton, OR 97801

Name: Ken Fite
Phone: 541-910-7109 Email:
Address: P.O. Box 518 Union, OR 97883

Name: Bert Kirby
Phone: 541-805-5655 Email:
Address: 58869 Hwy. 203 Union, OR 97883

Name: Douglas Kinsley
Phone: 541-562-5142 Email:
Address: 60026 Hwy. 203 Union, OR 97883

Name: Robert Richards
Phone: 541-562-5598 Email: 97883
Address: P.O Box 536 Union, OR 97883

Name: USDI Bureau of Reclamation
Phone: 541-663-0177 Email: ddyke@usbr.gov
Address: 10507 N. McAlister Rd., Room 4 La Grande, OR 97850

Name: Confederated Tribes of the Umatilla Indian Reservation
Phone: 541-969-3142 Email: allenchilds@ctuir.org
Address: 10507 N. McAlister Rd., Room 2 La Grande, OR 97850

Name: Oregon Department of Fish and Wildlife
Phone: 541-962-1837 Email: winston.h.morton@state.or.us
Address: 107 20th St. La Grande, OR 97850

Landowner Participation - Has the landowner been contacted? Are they supportive of the project? Are they contributing to the project?

The landowners have approved the project and signed a "Partners" access agreement as well as a USFWS participation agreement. They will contribute to the project design, consultation/approval and monitoring/maintenance. The landowners plan to enroll in a BPA/CTUIR, ODFW, or CREP riparian easement after construction in which they will contribute in-kind materials, labor, and maintenance.

Site Location

Stream Name: Catherine Creek
River Mile: 44
Tributary To: Grande Ronde River
GPS Coord LAT (optional):
GPS Coord LONG (optional):

Limiting Factors and Existing Conditions

BOR and ODFW assessments found this Catherine Creek project area in poor to fair condition. The project reach is heavily grazed and channelized. These activities contribute to straightened, channelized reaches creating sinuosity loss, channel incision and head cutting in localized reaches. Severe stream bank instability creates high channel width/depth ratios, riparian vegetation loss, and heavy sedimentation potentially causing high summer water temperatures. Phase II proposes habitat enhancement and restoration strategies which will address these limiting factors.

Species Affected

Snake River ESA listed Summer Steelhead, Spring/Summer Chinook, and Bull trout.

Project Objectives - State which habitat parameters (watershed and fisheries) are being addressed and how this project will affect those parameters. Be as specific as possible, quantify where appropriate.

- Enhance in-stream structural diversity and complexity: Re-activate historic channel meanders to increase sinuosity and place large wood within the active channel.
- Enhance riparian habitat conditions: Increase riparian plant communities through planting, seeding, and natural recruitment.

- Reduce excessive sediment: Manage riparian grazing with exclosure fencing, stabilize existing erosion sites with wood structures, and re-establishment of riparian vegetation.
- Decrease summer peak temperatures: Improve/increase riparian vegetative cover/shade to potentially decrease summer stream temperatures and increase winter temperatures.
- Increase in-stream water quantity: Consolidate points of diversion, and purchase water rights.
- Enhance floodplain connectivity: Remove channel confinement structures.
- Protect Habitat: Develop riparian easements with 6 separate landowners (CTUIR/BPA, ODFW easements, and/or CREP).

Proposed Actions

- Construction, re-activation and reclamation of historic channel segments, side channels alcove habitat, and channelized reaches into complex side channels and wetland habitat.
- Consolidation of 4 irrigation diversion's, and removal of levees and push up dams, installation of water delivery systems, and facilitation of water conservation measures.
- Installation of large wood material and riffle complexes to increase complexity and stability.
- Trap and haul (salvage) fish, and other aquatic species from construction areas to avoid any unintentional take or injury.
- All disturbed areas will be reseeded and replanted using a combination of live stakes, plugs, and container plants. Native seed mixes and plants will be used.

Identify Major Issues - Briefly describe any issues to implementation and approach to issue resolution.

At this time no major issues have been identified. The project partners have addressed all issues so far and will continue to do so if any should arise.

Roles and Responsibilities

- USWCD - project sponsor, coordination and contracting, landowner agreements, funding, project management.
- BOR - pre and final design, assessment surveys/modeling/analysis, NEPA, ESA, SHPO permitting, construction oversight.
- ODFW/CTUIR - design review and consultation, permitting, construction oversight.

Permits and Consultation

Permit Name	Applicable	Complete	If not, when do you expect to complete?
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ESA Section 7 - USFWS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5/1/2014
ESA Section 7 - NMFS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5/1/2014
COE/DSL Permit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10/28/2013
Cultural Resources Sec. 106	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9/15/2013

Metrics

Miles/Acres/Feet to be Restored: 4.5 miles

Project Schedule

Start: November 2012

Design: 30% Design - completed September 11, 2013 with Final Design - May 1, 2014

Permitting/Consultation: May 1, 2014

Construction: June-September, 2014

Monitoring: June 2014 (baseline)-June 2029

Relation to Subbasin Plan

Grande Ronde Subbasin Plan

Imnaha Subbasin Plan

The project addresses the GRS Plan with habitat restoration and protection for healthy ecosystems management supporting aquatic resources and native species, enhances floodplain connectivity, in-stream structural diversity and complexity, riparian habitat conditions, and reduces stream bank erosion and sediment loads.

Proposed Project Relation to other Projects - Is the project part of a multi-phase effort, is this work tying to previous work in the watershed/stream

The project complements Phase I (construction September, 2103) of the project as well as completed and on-going fish habitat enhancement activities in the Catherine Creek watershed. Phase II activities including irrigation diversion consolidation, irrigation pipelines, and riparian corridor enhancement will accomplish and enhance floodplain connectivity, in-stream complexity, and riparian vegetation planting.

Benefits

- Create diverse habitat availability (riffles, runs, pools, and glides), stream complexity, and enhanced riparian and wetland habitat.
- Improve water quality trends over time with increased width:depth ratios, riparian community development, and channel morphology restoration.

Monitoring Plan

- Stream Channel morphology (profile, x-sections, pebble counts)

- Habitat Surveys (2013 baseline, future repeat)
- Water Quality (temperature): temperature probe array at upstream and downstream project reaches (minimum).
- Photo points will be established in 2014 to provide comparative progress of riparian condition, vegetation, channel conditions, and habitat complexity.
- CHAMPS monitoring will be conducted post construction (2014) for a period of 10 years by CTUIR, ODFW, and CRITFC

Preliminary Cost Estimate

Total: \$2,071,276

Requested GRMW Funding: Cost share funds will be requested from NRCS and OWEB,

Requested BiOp Funding: which will lessen the above funds requested total.