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**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 I  
Prime Sponsor: Union Soil and Water Conservation District  
Support Sponsor(s):

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**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

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

Name: Ralph Eyre  
Phone: 541-562-5301 Email:  
Address: P.O. Box 567 Union, OR 97883

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: Oregon Department of Fish and Wildlife  
Phone: 541-963-2138 Email: vance.r.mcgowan@state.or.us  
Address: 107 20th St. 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: USDI Bureau of Reclamation  
Phone: 541-663-0177 Email: ddyke@usbr.gov  
Address: 10507 N. McAlister Rd., Room 4 La Grande, OR 97850

Name: ICF International  
Phone: 360-255-2921 Email: jsoden@icfi.com  
Address: 1108 11th St. #301 Bellingham, WA 98225

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**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 will sign a "Partners" access and 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 of Phase I and II in which they will contribute in-kind materials, labor, and maintenance.

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**Site Location**

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

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**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 I proposes installing bioengineered Large Woody Material (LWM) structures at 5 targeted critical project reach sites.

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**Species Affected**

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

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**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.

- Protect Habitat: Develop riparian easements with 4 separate landowners (CTUIR/BPA, ODFW easements, and/or CREP).
- Enhance riparian habitat conditions: Increase riparian plant communities through planting, seeding, and natural recruitment.

- Enhance floodplain connectivity: Remove channel confinement structures and expand floodplain.
- Enhance in-stream structural diversity and complexity: Re-activate historic channel meanders to increase sinuosity and place bioengineered large wood structures within the active channel.
- Reduce excessive sediment: Manage riparian grazing with enclosure 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.

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### Proposed Actions

- Install bioengineered Large Woody Material (LWM, 18-24" diameter by 20-25' long) structures at 5 targeted critical project sites. Key racking logs (4-12" diameter by 6-20' long wood pieces) including large branches, tree tops, etc..
- 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.
- Trap and haul (salvage) fish, and other aquatic species from construction areas to avoid any unintentional take or injury.

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### 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.

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### 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.

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### Permits and Consultation

Permit Name	Applicable	Complete	If not, when do you expect to complete?
ESA Section 7 - USFWS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ICFI by March 15, 2013
ESA Section 7 - NMFS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ICFI by March 15, 2013

COE/DSL Permit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ICFI by March 15, 2013
Cultural Resources Sec. 106	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ICFI by March 15, 2013

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### Metrics

Miles/Acres/Feet to be Restored: .25 mi ( of impacted area) of Catherine Creek.

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### Project Schedule

Start: May, 2013

Design: 30% Design - completed February, 2013 with Final Design - June, 2013

Permitting/Consultation: March, 2013

Construction: July-August, 2013

Monitoring: June, 2013 (baseline) - June, 2028

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### 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.

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**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 completed and on-going fish habitat enhancement activities in the Catherine Creek watershed. Upon Phase I completion (current phase), project partners and landowners will move forward with a proposed Phase II. Currently being developed, Phase II is scheduled for construction in 2014 and includes irrigation diversions' consolidation, irrigation pipelines, riparian corridor enhancement through channel realignment, floodplain connectivity, in-stream complexity, and riparian vegetation planting.

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### 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.

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### Monitoring Plan

- Stream Channel morphology (profile, x-sections, pebble counts)
- Habitat Surveys (2012 baseline, future repeat)

- Water Quality (temperature): temperature probe array at upstream and downstream project reaches (minimum).
- Photo points will be established in 2013 to provide comparative progress of riparian condition, vegetation, channel conditions, and habitat complexity.

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**Preliminary Cost Estimate**

Total: \$227,903

Requested GRMW Funding:

Requested BiOp Funding: \$227,903