

**Secure Rural Schools and Community Self-Determination Act of 2000  
Public Law 106-393**

**Title II Project Application for 2007 Funds (Round #7)  
Roseburg District Resource Advisory Committee**

<b>1. Project Name:</b> Umpqua Basin Tree Revetments	<b>2. County:</b> Douglas
<b>3. Sponsoring Organization:</b> Douglas Soil and Water Conservation District	<b>4. Date:</b> August 17, 2007
<b>5. Sponsor's Phone Number:</b> (541) 957-5061	
<b>6. Sponsor's E-mail:</b> jim.lee@oacd.org	

<b>7. Project Location</b> (attach project area map)	
a. Description of Location: <b>Streams are located throughout the Umpqua basin, principally on private lands.</b> (See attached map for more details)	
b. Sub Basin Name (4 <sup>th</sup> Field Watershed; e.g. North Umpqua): <b>Umpqua</b>	
c. Watershed Name (5 <sup>th</sup> Field Watershed; e.g. Little River): <b>Umpqua</b>	
d. Legal Location: Township	Range
Section(s)	
e. BLM District: <b>Roseburg</b>	e. BLM Resource Area <b>Swiftwater and South</b>
f. State / Private / Other lands involved? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

<b>8. Project Goals and Objectives:</b> (Describe the goals and objectives of the project. If applicable list species that will benefit from the project)
The project areas are well suited for tree revetments. The tree revetments are an excellent way for landowners to correct minor streambank erosion concerns as part of an overall riparian restoration. The revetments collect sediment and provide a medium for riparian vegetation reestablishment. The silt and sediment trapped by the revetments improves downstream water quality, redirects the current away from the eroding bank and serves as an excellent planting site for brush and tree species. This vegetation provides additional roughness, traps more sediment and binds the soil to the streambank.

<b>9. Project Description:</b> (Describe how the project will be conducted and how its goals and objectives will be met.)
Many streams and creeks in the county have excessive streambank erosion due to an unstable riparian area. This has resulted in increased levels of sediment and turbidity. The riparian vegetation is often inadequate for bank stability and shade. Most of these stream conditions are still at a point where low - impact bioengineering would help solve the problem. Installation of tree revetments, removal of invasive brush and the planting of native vegetation along the streambank and riparian area, will improve overall stream conditions and water quality.

<b>10. How will cooperative relationships among people that use federal lands be improved?</b>
Tree revetments improve stream habitat conditions for many species that use riparian corridors at some time in their life cycle. Some of these, such as Coho salmon, are federally proposed listed species. Through outreach education with tours and displays, the public will have a better understanding of healthy functioning riparian systems and the species that rely on them.

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**11. How is this project in the best public interest and how will it benefit communities?**  
 Watershed health affects all residents of the county. Oregon Water Resources Department has established a list of beneficial uses for surface waters including streams, rivers, ponds and lakes. Beneficial uses for streams and rivers within the Umpqua Basin include the following: domestic water supply, industrial water supply, livestock watering, irrigation, recreation, aquatic life, resident and anadromous fish, wildlife and aesthetic quality. The project will benefit the community through educating students and adults about riparian restoration techniques that can be incorporated into their farm management plan or simply applied to their property. The community will also benefit from improved riparian function with less erosion and property damage.

<b>12. Who will accomplish the project?</b>	
<input type="checkbox"/> Contractor	<input type="checkbox"/> Federal Workforce
<input type="checkbox"/> County Workforce	<input checked="" type="checkbox"/> Volunteers
<input checked="" type="checkbox"/> Other (specify): Douglas SWCD	

<b>13. Is this project coordinated with other related project(s) on adjacent lands?</b>
a. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No    (If yes, then describe)
b. Are you seeking funds from other Resource Advisory Committees? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No    (If yes, then describe)

**14. If the project is on private land how does it benefit federal lands or resources?**  
 Many streams that run through private landowner's property originate on federal lands or will course through federal lands downstream. Water quality and fish habitat are intrinsically linked together. Tree revetments stabilize streambanks, reducing erosion and downstream sedimentation. The revetments also provide refuge in the winter during high flows for salmon fry and will eventually provide a suitable substrate for willows. The willows provide long-term streambank stability, cover and food. By improving overall streambank and riparian habitat, anadromous fish, such as the federally proposed Coho salmon will be benefited.

<b>15. Measure of Project Accomplishments</b>	
a. Total Acres:N/A	b. Total Miles:N/A
c. Number of Structures: 7-10	d. Estimated Number of People Reached
e. Number of Laborer Days: 25	(for environmental education and workforce training projects):50

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f. Other (specify):
g. Describe how long will the benefits of the project last: The tree revetment structures and the associated tree plantings will be in use and functioning for the life of the structures, typically, decades.

<b>16. Will the project generate merchantable materials?</b>
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No      If yes, describe:

<b>17. How does the proposed project meet purposes of the legislation?</b> (Check at least one)
<input type="checkbox"/> Improves maintenance of existing infrastructure.
<input checked="" type="checkbox"/> Implements stewardship objectives that enhance forest ecosystems.
<input type="checkbox"/> Restores and improves land health.
<input checked="" type="checkbox"/> Restores water quality.

<b>18. Project Type</b> (Check at least one)
<input type="checkbox"/> Road Maintenance <input type="checkbox"/> Trail Maintenance
<input type="checkbox"/> Road Decommission/Obliteration <input type="checkbox"/> Trail Obliteration
<input type="checkbox"/> Other Infrastructure Maintenance (specify):
<input type="checkbox"/> Soil Productivity Improvement <input checked="" type="checkbox"/> Forest Health Improvement
<input checked="" type="checkbox"/> Watershed Restoration & Maintenance <input checked="" type="checkbox"/> Wildlife Habitat Restoration
<input checked="" type="checkbox"/> Fish Habitat Restoration <input checked="" type="checkbox"/> Control of Noxious Weeds
<input checked="" type="checkbox"/> Reestablish Native Species
<input type="checkbox"/> Other Project Type (specify):

<b>19. Project Initiation and Estimated Completion Dates:</b> (Describe the timing of the major phases of the project) September 2008-March 2009
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<b>20. Status of Project Planning</b>			
a. NEPA process complete:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Not Applicable
b. Consultation complete:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Not Applicable
c. DSL/ODFW* permits for in-stream work obtained:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Not Applicable
d. DSL/COE* 404 fill/removal permit obtained:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Not Applicable
e. SHPO* concurrence received:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Not Applicable
f. Project design(s) completed:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Not Applicable
g. If you answered yes to any of the questions above, please describe who will accomplish the work and when it will be complete:			
* DSL = Dept. of State Lands, ODFW = Oregon Department of Fish and Wildlife, COE = Army Corps of Engineers, SHPO = State Historic Preservation Officer			

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<b>21. Anticipated Project Costs</b>
a. Total Title II funds requested: \$16,500

**Table 1. Project Cost Analysis** (Includes all expenditures for the life of the project)

<b>Item</b>	<b>Fed. Agency Appropriated Contribution</b>	<b>Requested County Title II Contribution</b>	<b>Other Contributions</b>	<b>Total Available Funds</b>
Planning and Permits		1,300	500	1800
Design & Engineering		1,400	500	1900
Project/Contract Administration		2,000		2000
Project/Contract Implementation <sup>1</sup>		5,500	1000	6500
Materials & Supplies <sup>2</sup>		4,300	1000	5300
Post-Project Monitoring		500	500	1000
Other		1500		1500
<b>Total Cost Estimate</b>		<b>16,500</b>		<b>20,000</b>

<sup>1</sup>This could be either the cost of the labor for project implementation or the cost of a contract.

<sup>2</sup>If the project is implemented by contract, materials and supplies are likely included in the cost of the contract.

**22. Provide a budget narrative, including a description of other source(s) of funding for the project identified above and/or a clarification of any other aspects of the budget:**

Douglas SWCD and the landowners are the two principle participants. Douglas SWCD is managing for the project. The landowners are contributing some of the labor, materials, and equipment for construction, planting and maintenance work. One of the key components to this project is the donation of the trees. Douglas SWCD has 6 sites it has permission to harvest trees. This in-kind contribution is a major item in the budget and exemplifies how landowners are willing to assist with projects that enhance salmon habitat and improve water quality.

**23. Monitoring Plan**

- a. What measures or evaluations will be made to determine how well the proposed project meets the desired ecological conditions? Who will be responsible for this monitoring item?  
Monitoring will occur by the DSWCD at a 1, 2, 5 and 10 year interval with photo points. Landowners may assist with the monitoring by providing photos from the established photo points.

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- b. How will the project be evaluated to determine how well it contributes to local employment and/or training opportunities, including summer youth jobs programs such as the Youth Conservation Corps? Who will be responsible for this monitoring item?

Students and community volunteers will assist with appropriate aspects of the restoration project including tree and shrub planting, installing tree revetments, and riparian brush control. DSWCD will be responsible for youth or volunteer programs.

- c. What methods will be established to determine how well the proposed project improves the use of, or added value to, any products removed from federal lands consistent with the purposes of this Act? Who will be responsible for this monitoring item?

No products will be removed from federal lands directly related with this project although fish and wildlife whose range extends into federal lands should be benefited and may be harvested according to state regulations.

**24. What are the analyses, plans, legislation, or other supporting documents that support and guide this application?** (E.g. the Northwest Forest Plan, a watershed analysis, a late successional reserve assessment, or the Oregon Plan for Salmon.)

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This project will follow the "Umpqua Basin Watershed Assessment and Action Plan" developed by the Umpqua Basin Watershed Council. The plan's key findings and recommendations include, "the replacement of culverts which due to jump height, slope or velocity do not easily allow adult and juvenile anadromous fish passage." The plan also calls for, where appropriate, "the placement of large root wads, logs and/or boulders in streams or creeks to improve pools, collect gravel and improve overall fish habitat." Additionally, the plan encourages land use practices that enhance or protect the riparian areas by: "Protecting riparian areas from livestock-caused browsing and bank erosion through riparian fencing and providing off-channel water systems and by Planting native riparian trees and shrubs and understory vegetation in areas with poor or fair riparian areas." The proposed project also addresses water quality issues raised by the Oregon Department of Environmental Quality in its assessment of rivers and streams in the Umpqua Drainage. DEQ several creeks and streams 303(d) water quality limited for temperature, fecal coliform, dissolved oxygen, pH, sedimentation and flow during various times of the year. The DEQ recommends, "tree planting, especially along streams to reduce erosion and to keep water cool," and to, "protect existing streamside vegetation and prevent streambank erosion." The Oregon Plan for Salmon and Watersheds calls for the restoration and healthy function of Oregon's natural aquatic systems. The Oregon Plan directs "salmon and watershed restoration plans to be developed and implemented by communities and landowners with knowledge of local problems and ownership in local solutions." The plan goes on to state, "Watershed Councils, Soil and Water Conservation Districts, cities, counties, industries, landowners and individual homeowners must all work together to restore our watersheds."

**25. Who are the key people responsible for this project?** (List their names and titles)

Walt Barton, District Manager DSWCD, Jim Lee, Project Manager DSWCD

**26. Attach a map and photograph(s) of the project.** (At a minimum, the map should show the project location, roads, and streams, and private versus BLM ownership. The photograph should show the project site or a representative portion of it. **More than one photograph can be submitted, but they must all fit on one page. A digital photograph incorporated into this application is preferred; hard copies will be copied in black and white.**)