

**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**

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| 1. Project Name: Umpqua Basin Survey Equipment | 2. County: Douglas |
| 3. Sponsoring Organization: Elk Creek WSC | 4. Date: 16 August 2007 |
| 5. Sponsor's Phone Number: (541) 836-7206 | |
| 6. Sponsor's E-mail: Russell.Ieland@gmail.com | |

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| 7. Project Location (attach project area map) | |
| a. Description of Location: Umpqua Basin (See attached map for more details) | |
| b. Sub Basin Name (4 th Field Watershed; e.g. North Umpqua): All | |
| c. Watershed Name (5 th Field Watershed; e.g. Little River): All | |
| d. Legal Location: Township Range Section(s) N/A | |
| e. BLM District: Roseburg | e. BLM Resource Area Swiftwater |
| f. State / Private / Other lands involved? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |

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| <p>8. Project Goals and Objectives: (Describe the goals and objectives of the project. If applicable list species that will benefit from the project)</p> <p>This application is for funds to purchase surveying and engineering equipment, and associated software, for use by <i>all</i> the watershed restoration groups in the Umpqua Basin. Primarily this includes the Douglas and Umpqua Soil and Water Conservation Districts, the Elk Creek and Smith River Watershed Councils, and the Partnership for the Umpqua Rivers. Two local tribes have become more involved in watershed restoration, as well.</p> <p>Over the past few years, watershed restoration has become more and more technical. In the past, riparian planting and large wood placements were the most common restoration practices. They compensated for the fact that the habitat in many streams had been degraded by logging in the riparian areas, and by practices such as stream cleaning which removed much of the large wood from the channel. Recent studies have shown that the relationship between the fish and their habitat is more complex than simply a matter of the lack of large wood. The focus now is on the water; the <i>hydrology</i> of the streams and how it affects the fish and their habitat. Most of the land management practices that have contributed to the decline in fish populations have increased the velocity of the water in our streams. Fisheries biologists in the Elk Creek Watershed believe that increased water velocities, especially during winter storm events, is one of the most significant factors limiting Coho populations. Juvenile Coho remain in our streams for an entire year before migrating to the ocean. During the winter, many are literally "washed out" of the system during high flows.</p> |
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Watershed restoration efforts in the Umpqua Basin have begun to focus on developing restoration projects to address this problem. The highest priority is given to projects which try to create or enhance habitat which provides refuge from these high winter flows. Some of the best habitats which can provide these areas of refuge are off-channel ponds or alcoves, and floodplains. Both offer areas where juvenile fish can escape from the main channel and find slow moving water.

The design and engineering involved in developing these projects has become more intensive. Designs for an off-channel pond, for example, require a significant amount of survey and engineering data so that we can be assured that they will perform properly. Currently, a few of the restoration groups in the Umpqua Basin have access to some basic surveying equipment, most do not. And the costs of surveying a potential site have to be incorporated into the funding grants for the project.

At this time OWEB has Technical Assistance grants available for the design and engineering required for the development of complex projects, but the time it takes to apply for these grants, have them approved, and then have the designs and engineering completed by a qualified engineer, may take an entire year. And once the designs are completed, it may take *another* year before the implementation grants are submitted and approved before construction can begin.

This proposal will purchase a sophisticated robotic total station, and the software to generate the data collected into meaningful site maps and designs. This equipment will allow a single operator to survey a project site in about half the time than it would take two (2) people using less advanced instruments. More important than the savings in actual survey time, is the capability to complete much of the survey and design work "in house," and eliminate the necessity for a separate technical assistance grant and the extra year it requires.

This equipment will also reduce the costs associated with the design and engineering components of projects. A contract with a licensed engineer to do this work can easily cost upwards of \$125 per hour. This savings can make a significant difference in extending effectiveness of scarce restoration funds.

9. Project Description: (Describe how the project will be conducted and how its goals and objectives will be met.)

The restoration groups in the Umpqua Basin will meet to discuss their current, and expected future needs. A consensus of this group, with the inclusion of input from qualified engineers, will make the final decisions on the features required, and the make and model of the equipment to be purchased.

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At this time it is the intention to house the equipment at the Douglas Soil and Water Conservation District under the supervision of Walt Barton, District Manager. Walt has an engineering degree and the experience to properly use and maintain the equipment. It is expected that Walt will play an instrumental role in training members of the other watershed groups in the use of the equipment and the software. As the rest of us become more experienced, the real value of the equipment, and the savings realized, will multiply.

The Elk Creek Watershed Council will administer the funding grants for the project, and will be responsible for all financial accounting and reports.

10. How will cooperative relationships among people that use federal lands be improved?

This project will greatly improve the cooperative relationships among all the groups currently working on watershed restoration in the Umpqua Basin. This includes both the Douglas and Umpqua Soil and Water Conservation Districts, the Elk Creek and Smith River Watershed Councils, and the Partnership for the Umpqua Rivers. All these groups are cooperatively involved with land managers for the federal lands in the Umpqua Basin.

This project is an example of the increasing cooperation that has been developing among all these watershed groups in recent years.

11. How is this project in the best public interest and how will it benefit communities?

This project will make significant contributions to habitat restoration and water quality improvement in the Umpqua Basin. The projects that will be developed from this equipment will benefit the public in several ways:

- Improvement in fish habitat in important Coho Salmon streams. Improved fish runs are a benefit to all segments of the public.
- Benefits to the local economy by maintaining infrastructure important to both the people of Douglas County and to the interests of landowners.
- The projects will create jobs for local contractors who are expected to bid on construction.

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| 12. Who will accomplish the project? | |
| <input type="checkbox"/> Contractor | <input type="checkbox"/> Federal Workforce |
| <input type="checkbox"/> County Workforce | <input type="checkbox"/> Volunteers |
| <input checked="" type="checkbox"/> Other (specify): <p>The Elk Creek Watershed Council will:</p> <ul style="list-style-type: none"> • Secure funding. • Coordinate and manage the project, administer all grant funds, and prepare all documents and reports as required by funding agencies. <p>Douglas SWCD will:</p> <ul style="list-style-type: none"> • Provide a secure location for the storage of the equipment. • Be responsible for care and maintenance. • Supervise scheduling and use of the equipment. <p>Participating restoration groups will:</p> <ul style="list-style-type: none"> • Develop a cooperative process for making the equipment available to all those groups involved in watershed restoration in the Umpqua Basin. | |

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| 13. Is this project coordinated with other related project(s) on adjacent lands? |
| <p>a. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (If yes, then describe)</p> <p>This project <i>is</i> coordinated with other projects in the Umpqua Basin. As mentioned, this project is part of an increasing effort from <i>all</i> the watershed restoration groups in the Basin to find ways to work cooperatively to the benefit of all. A separate Title II application has been submitted for funds to provide technical assistance and outreach to County landowners. These funds will be available to cover the <i>time</i> involved in working with landowners to develop restoration projects, and for the design and engineering required to get these projects funded. Together, these two projects will provide the personnel, and the equipment, to allow all of us to develop projects much more quickly and efficiently.</p> |
| <p>b. Are you seeking funds from other Resource Advisory Committees? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, then describe)</p> |

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14. If the project is on private land how does it benefit federal lands or resources?

Fish habitat and water quality improvements on private lands are important to the federal lands in the headwaters of the watershed. The projects developed from this proposal will especially benefit Coho and Steelhead using the higher gradient stream reaches on BLM lands.

This equipment may actually be used in developing projects on federal lands. The federal land management agencies (BLM and USFS) are beginning to realize that restoration efforts are much more successful when done at a sub-watershed scale, rather than on a site specific basis. Developing larger projects that span both public and private lands in a watershed are becoming more commonplace. Federal land managers are also realizing that working cooperatively with local groups on restoration projects can have economic advantages as well.

15. Measure of Project Accomplishments

a. Total Acres: **NA**

b. Total Miles: **N/A**

c. Number of Structures: **N/A**

d. Estimated Number of People Reached
(for environmental education and workforce training projects): **N/A**

e. Number of Laborer Days: **N/A**

f. Other (specify):

g. Describe how long will the benefits of the project last: **Indefinitely**

16. Will the project generate merchantable materials?

Yes

No

If yes, describe:

17. How does the proposed project meet purposes of the legislation? (Check at least one)

Improves maintenance of existing infrastructure.

Implements stewardship objectives that enhance forest ecosystems.

Restores and improves land health.

Restores water quality.

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| 18. Project Type (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 checked="" type="checkbox"/> Other Infrastructure Maintenance (specify): Culvert replacement | |
| <input type="checkbox"/> Soil Productivity Improvement | <input 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 type="checkbox"/> Control of Noxious Weeds |
| <input checked="" type="checkbox"/> Reestablish Native Species | |
| <input type="checkbox"/> Other Project Type (specify): | |

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| <p>19. Project Initiation and Estimated Completion Dates: (Describe the timing of the major phases of the project)</p> <ul style="list-style-type: none"> ▪ Funding available: Winter 2007-2008 ▪ Purchasing decisions: Winter 2007-2008 ▪ Equipment Purchase: Spring 2008 |
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| 20. Status of Project Planning: | | | |
| a. NEPA process complete: | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Not Applicable |
| b. Consultation complete: | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Not Applicable |
| c. DSL/ODFW* permits for in-stream work obtained: | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Not Applicable |
| d. DSL/COE* 404 fill/removal permit obtained: | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Not Applicable |
| e. SHPO* concurrence received: | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Not Applicable |
| f. Project design(s) completed: | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input checked="" 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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21. Anticipated Project Costs:

a. Total Title II funds requested: \$ 55,000

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

| Item | Fed. Agency Appropriated Contribution | Requested County Title II Contribution | Other Contributions | Total Available Funds |
|--|---------------------------------------|--|---------------------|-----------------------|
| Planning and Permits | | | | |
| Design & Engineering | | | | |
| Project/Contract Management | | | | |
| Project/Contract Implementation ¹ | | | | |
| Materials & Supplies ² | | \$ 50,000 | | \$ 50,000 |
| Post-Project Monitoring | | | | |
| Mileage: | | | | |
| Grant Administration | | \$ 5,000 | | \$ 5,000 |
| Total Cost Estimate | | \$ 55,000 | | \$ 55,000 |

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

²If 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:

There are no "Other Contributions" in the budget. OWEB is reluctant to grant funds for equipment, preferring to encourage applicants to rent or lease, rather than deal with the problems of accounting for depreciable assets. This purchase will provide benefits exclusively to watershed restoration within the Roseburg BLM District (Douglas County).

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?

There is no monitoring associated with this project.

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?

This project will not contribute directly to local employment and/or training.

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- 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?

Not applicable.

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.)

Not applicable.

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

Lee Russell - Elk Creek Watershed Council Coordinator
James Mast - Elk Creek Watershed Council Chairman
Walt Barton - Douglas SWCD District Manager
Bob Kinyon - Partnership for the Umpqua Rivers Coordinator
Dustin Williams - Umpqua SWCD Technician
Richard Baumgartner - Smith River Watershed Council
Jake Winn - BLM Restoration Coordinator

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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.)

Roseburg BLM District

