

APPENDIX I

ROUND 2008 LAKE TAHOE CAPITAL PROJECT PROPOSAL

Project Name: Basin Revegetation and Restoration	Capital Focus Area: Water Quality Improvements/BMP's	EIP #: 967.17
Lead Agency: USDA Forest Service, LTBMU		Contact: Cheryl Schumacher
Threshold: Water Quality		Phone Number: (530) 543-2858
Threshold Standard: WQ-5, Decrease sediment loads from roads and trails.		csschumacher
Is this a multi-year Project? Yes (If "Yes", describe in the Detailed Project Description below number of years or phases and which year the requested funding will cover)		Email Address: @fs.fed.us
	Total Project Cost:	\$1,460,000
	Funding Request in this Round:	\$150,000

Project Summary (maximum 200 words):

This project will accomplish the revegetation of areas within a 150 foot buffer of existing roads, trails, crossings and travel ways, including landings, staging areas and recreation sites. Revegetation efforts will improve soil conditions, establish native vegetation, and prevent vehicle and pedestrian access into sensitive areas - all of these efforts will improve the protection of water quality for Lake Tahoe and its sub-watersheds.

Work associated with this on-going project includes the collection and analysis of soil samples, scarification of soil to reduce compaction, application of weed-free compost, application of appropriate fertilizers, seeding with native seed-stocks, application of weed-free mulch and tackifier, and irrigation to establish vegetation.

Detailed Project Description:

This project will accomplish the revegetation of areas within a 150 foot buffer of existing roads, trails, crossings and travel ways, including landings, staging areas and recreation sites. Revegetation efforts will improve soil conditions, establish native vegetation, and prevent vehicle and pedestrian access into sensitive areas - all of these efforts will improve the protection of water quality for Lake Tahoe and its sub-watersheds.

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The project has been funded in Round 5 for \$50,000, Round 6 for \$66,000, and Round 7 for \$116,000. This Round 8 request for this project is \$150,000. This is a multi-phase, multi-year project with a total project cost of \$1,460,000. Goals and objectives for Round 5 have been completed. Goals and objectives for Round 6 will be completed in the next two months.

Describe the goals and objectives of the project:

Restore disturbed areas, including roads, trails, crossings and travel way features to

minimize erosion, improve water quality and restore soil conditions promoting natural vegetative community. The following objectives will be accomplished:

WQ-5: Minimize the erosive effects of water concentrated by road, trail, and recreation facility's drainage features and to minimize the erosion of road, trail and facility surface materials, reducing the likelihood of sediment production.

WQ-6: Upgrade and maintain USFS system roads, trails and recreation facilities in a manner that provides for water quality protection by minimizing rutting, failures, side casting, and blocking of drainage facilities.

Describe the anticipated project accomplishments:

Restore and revegetate two bridge construction sites. Revegetate 5 miles of decommissioned roads and trails.

Describe the "readiness" of this project to move forward (urgency, capacity, capability, Environmental documentation, etc.):

Revegetation of roads and trails are categorically excluded from documentation in an EIS or an EA. This project is currently in its third year of implementation and is ready for the fourth phase.

Describe partnerships for this project. (Include documentation):

N/A

Describe the project monitoring that will implemented as part of this project including:

(1) The questions the monitoring program is designed to answer

The monitoring program is designed to assess the extent to which the implementation of temporary and permanent BMPs effectively minimizes the generation and transport of sediment, and protects the water quality of Lake Tahoe.

(2) The monitoring approach

An Adaptive Management approach will be used to monitor the implementation and effectiveness of revegetation areas associated with roads and trails. A major component of the monitoring program will use Region 5 Best Management Practices Evaluation Program (BMPEP) to evaluate the implementation and effectiveness of the BMPs. The program will involve monitoring before, during, and after construction. Pre-construction monitoring will establish a baseline of existing threats to water quality and help to develop a plan to resolve the threats. Construction monitoring will ensure that the resource protection measures specified are both being followed, and are effective. Post-construction monitoring will evaluate the success of the project implementation. The project site will be evaluated for two years in the spring, summer, and fall to measure changes in sediment production and transport. This will be compared against the baseline condition. Evaluation of the effectiveness of this project will enable the Forest Service to take corrective measures and modify monitoring protocols if needed, and improve the design of future water quality BMP efforts.

(3) Whether this project monitoring fits in to a larger monitoring or research program?

The results from the monitoring program for this project will be available to help refine the Total Maximum Daily Load (TMDL) model that is currently being developed by the Regional Water Quality Control Board. Monitoring for this project will be performed in conjunction with the Basin-wide BMP retrofit adaptive management monitoring program. The purpose of this program is to determine the need and effectiveness of BMP retrofits on Forest Service roads and trails.

Describe how the project results will be communicated and made-available to the public.

The results of the project level monitoring will be compiled in a report that will be updated as the post-construction monitoring is completed. This report will be part of the project record and will be available for public/agency review and use upon request at the LTBMU Supervisors Office.

Include an 8 ½ X 11 map depicting the project.

The work may occur anywhere on National Forest lands within the Lake Tahoe Basin, including both California and Nevada. Reference map on page 5.

Appendix B-8

**ROUND 8 LAKE TAHOE RESTORATION PROJECTS
ESTIMATED NECESSARY EXPENSES & KEY MILESTONE DATES**

Project Name: Basin Revegetation and Restoration Agency: USDA Forest Service Lake Tahoe Basin Management Unit
 Prepared by: Cheryl Schumacher Phone: (530) 543-2858 EIP#: 967.17
 SNPLMA Project#: _____

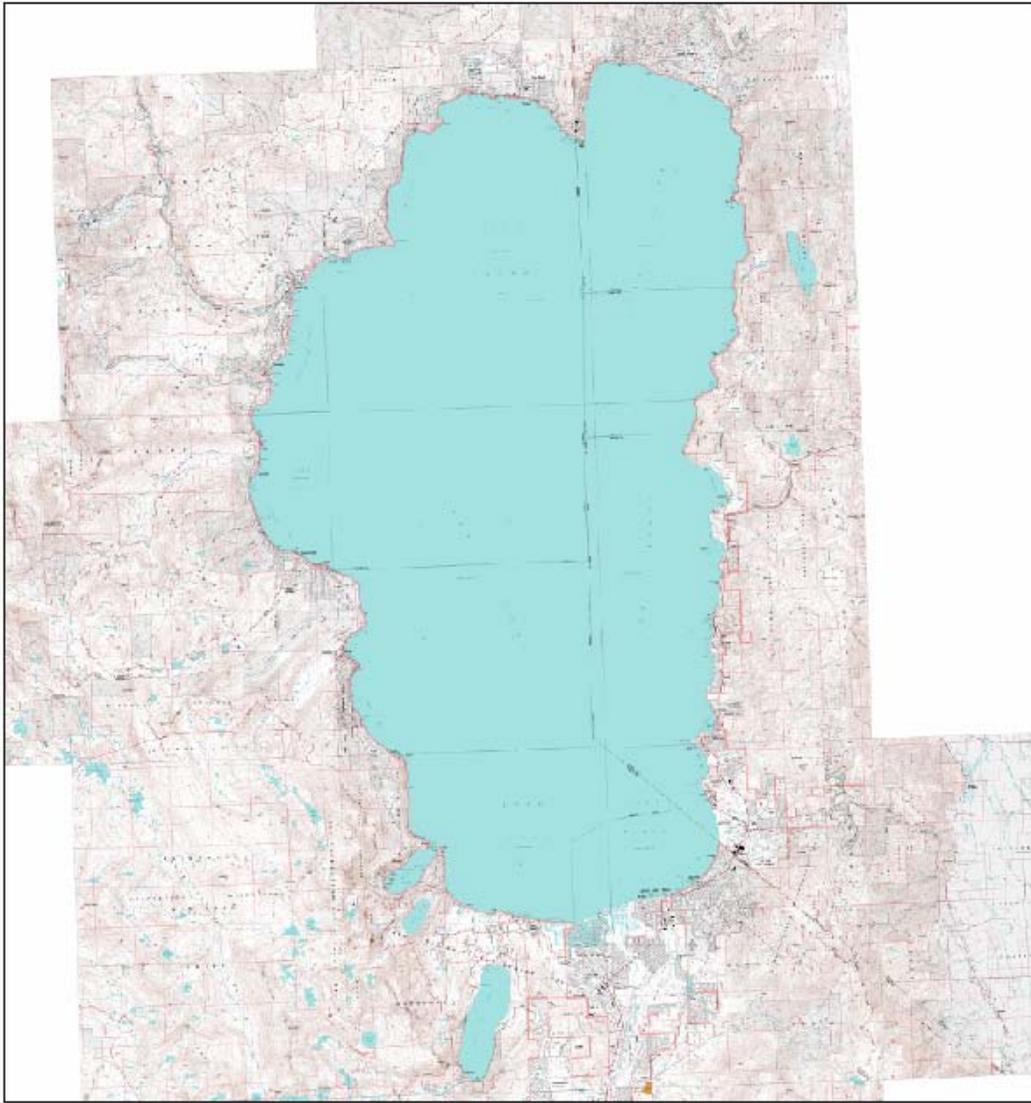
Identify estimated costs of eligible reimbursement expenses:

1. Planning, Environmental Assessment and Research Costs (specialist surveys, reports, monitoring, data collection, analysis, NEPA, etc.)	\$ <u>5,000</u>	<u>3</u> %
2. FWS Consultation – Endangered Species Act	<u>0</u>	<u>0</u> %
3. Direct Labor (Payroll) to Perform the Project	\$ <u>20,000</u>	<u>14</u> %
4. Project Equipment (tools, software, specialized equipment, etc.)	\$ <u>10,000</u>	<u>7</u> %
5. Travel (including per diem where official travel status required to carry out project, such as serve as COR, experts to review reports, etc.)	\$ <u>0</u>	<u>0</u> %
6. Official Vehicle Use (pro rata cost for use of Official Vehicles when required to carry out project)	\$ <u>5,000</u>	<u>3</u> %
7. Cost of Contracts, Grants and/or Agreements to Perform the Project	\$ <u>90,000</u>	<u>60</u> %
8. Other Direct and Contracted Labor: Agency payroll for the Contracting Officer to do project procurement, COR, Project Inspector, Sec. 106 Consultation if required, NEPA Lead, Project Manager, Project Supervisor, and subject experts to review contracted surveys, designs/drawings, plans, reports, etc.; Also covered is the cost to contract for a Project Manager and/or Project Supervisor if contracted separately from other project contracts)	\$ <u>5,000</u>	<u>3</u> %
9. Other Necessary Expenses (See Appendix B-9)	<u>15,000</u>	<u>10</u> %
TOTAL:	\$ <u>150,000</u>	<u>100</u> %

Estimated Milestone Dates:

Milestones/Deliverables	Date:
Final Completion Date:	November 2008

COMMENTS:



VICINITY MAP
Lake Tahoe Basin



0 1.5 3 6 Miles

SNPLMA Project Proposal Basin Revegetation and Restoration

USDA Forest Service
Lake Tahoe Basin Management



USDA Forest Service
Lake Tahoe Basin Management Unit
15000 Lake Tahoe Blvd., Truckee, CA 96161
707/552-4800
www.fs.fed.us/ltp/management/lake_tahoe