

Appendix B-8

**LAKE TAHOE RESTORATION PROJECTS
ESTIMATED DIRECT COSTS & KEY MILESTONE DATES**

Project Name: Spoooner Summit Fire Sta Road BMPs Agency: USFS
 Prepared by: Torres Phone: 530.543.2696 EIP #: 1007
 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> \$0 </u>	<u> 0 </u> %
2. Direct Labor (Payroll) to Perform the Project	\$ <u> \$50,000 </u>	<u> 20 </u> %
3. Project Equipment (tools, software, specialized equipment, etc.)	\$ <u> </u>	<u> </u> %
4. Travel (including per diem where official travel status required to carry out project, such as serve as COR, experts to review reports, etc.)	\$ <u> </u>	<u> </u> %
5. Official Vehicle Use (pro rata cost for use of Official Vehicles when required to carry out project)	\$ <u> \$1,000 </u>	<u> - </u> %
6. Cost of Contracts, Grants and/or Agreements to Perform the Project	\$ <u> \$127,000 </u>	<u> 51 </u> %
7. Other Direct Costs (direct labor for agency personnel to do project procurements; COR; PI; personnel assigned as NEPA lead; personnel assigned to review contracted surveys, designs/drawings, reports, etc.; project manager and/or project supervisor; and contracted costs for project manager and/or project supervisor if contracted separately)	\$ <u> \$34,500 </u>	<u> 14 </u> %
8. Indirect Costs	\$ <u> \$37,500 </u>	<u> 15 </u> %
TOTAL:	\$ <u> \$250,000 </u>	<u> 100 </u> %

Estimated Key Milestone Dates:

Milestones/Deliverables:	Date:
Completion of Environmental Documentation	Completed
Completion of BMP Implementation	December 2008
Completion of Project Monitoring	September 2009
Final Completion Date:	September 2009

COMMENTS: This project is a subsequent phase to the SNPLMA Round 6 funded Forest Service Facility BMP retrofit project.

APPENDIX I

LAKE TAHOE CAPITAL PROJECT PROPOSAL

Project Name: Spooner Summit Fire Station Parking BMPs	Capital Focus Area: Water Quality	EIP #: 1007
Lead Agency: USFS	Contact: Tom Torres	
Threshold: Water Quality	Phone Number: 530.543.2696	
Threshold Standard: TRPA WQ-5, Stormwater Runoff Quality – Surface Water	Email Address:	ttores@fs.fed.us
Is this a multi-year Project? NO	Total Project Cost: \$250,000	
	Funding Request in this Round: \$250,000	

Project Summary (maximum 200 words):

This project would provide for the survey, design and implementation of water quality BMP's for the roads and parking areas at the Spooner Summit Fire Station. The existing roads and parking areas do not currently meet water quality protection standards. The existing fire station facility (not including adjacent roads and parking areas) is planned to be replaced with other funding within the next year. This project would complement the proposed facility replacement with the implementation of BMPs. In addition, appropriate monitoring of the effectiveness of the BMP's would be completed.

Detailed Project Description:

This project could be completed in a single round of SNPLMA funding.

Describe the goals and objectives of the project:

The goal of this project is to bring the facility into compliance with mandated water quality BMP requirements, and to protect the water quality of Lake Tahoe from impacts associated with uncontrolled stormwater runoff. This project will address the following objectives as described in the Request for SNPLMA Round 7 Capital Project Proposals: WQ-5, WQ-6, and WQ-7.

Describe the anticipated project accomplishments:

Accomplishment of this project will protect the water quality of Lake Tahoe in a number of ways. Implementation of the project will minimize the erosive effects of water concentrated by road and facility drainage features, reducing the likelihood of sediment production and increasing the protection of water quality. The project will be monitored to evaluate its effectiveness at protecting the water quality of Lake Tahoe, and will "fine tuned" if necessary to meet the resource protection goals.

Describe the "readiness" of this project to move forward (Environmental

documentation, etc.):

The existing facilities are in need of BMP upgrades to meet the objectives of protecting the water quality Lake Tahoe. As described above, this project would be a complementary project to the replacement of the facility (building) replacement. The appropriate environmental analysis and documentation to implement has been completed.

Describe partnerships for this project. (Include documentation):

As described above, this project would be a complementary project to the replacement of the facility (building) replacement. This project would complement that project to improve the water quality of Lake Tahoe. In terms of the entire project, facility and road improvements, the Zephyr Cove Management is funding approximately ??? percent of the facility replacement.

Describe the project monitoring that will be 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 BMPs at these facilities effectively minimizes the generation and transport of sediment, and protects the water quality of Lake Tahoe. Additionally the program is designed to assess if temporary BMPs are being adequately designed, implemented, and maintained during implementation.

(2) The monitoring approach

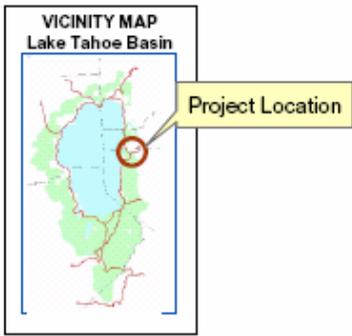
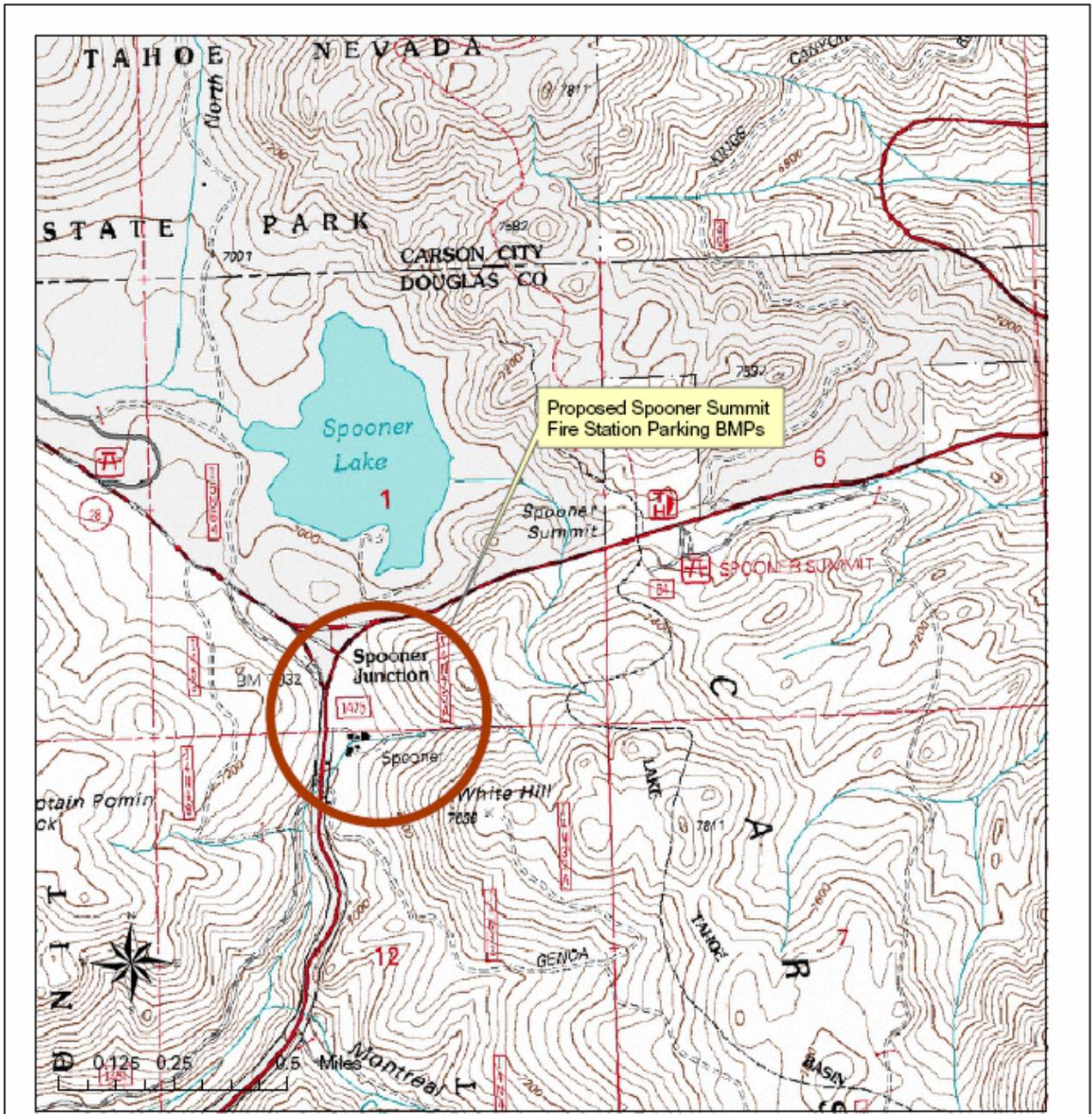
An Adaptive Management approach will be used to monitor the implementation and effectiveness of the facility BMP retrofits. A major component of the monitoring program will use Region 5 Best Management Practices Evaluation Program (BMPEP) to evaluate the implementation and effectiveness of the BMPs. 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 effectiveness. Post-construction monitoring will evaluate the success of the project implementation. The facility 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 for BMP retrofits at Forest Service facilities as well as the effectiveness of the BMP retrofits.

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 located at the LTBMU Supervisor's Office and will be available for public/agency review and use upon request.



SNPLMA PROJECT PROPOSAL
Spooner Summit Fire Station
Parking Area BMPs

USDA Forest Service
Lake Tahoe Basin Management Unit



The Forest Service uses the most current and complete data available. GIS data presented is a static snapshot and may vary from what is shown on the ground. The Forest Service is not responsible for any errors or omissions in this proposal, including those that may result from the use of this proposal for purposes other than those for which it was prepared. The Forest Service reserves the right to correct, modify, or replace this proposal without notice.

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