

Appendix B-8

LAKE TAHOE RESTORATION PROJECTS ESTIMATED DIRECT COSTS & KEY MILESTONE DATES

Project Name: FS Administrative facility BMP Retrofit Agency: USFS
 Prepared by: Daniel Cressy Phone: 530.543.2857 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>50,000</u>	<u>6</u> %
2. Direct Labor (Payroll) to Perform the Project	\$ <u>42,500</u>	<u>5</u> %
3. Project Equipment (tools, software, specialized equipment, etc.)	\$ _____	_____ %
4. Travel (including per diem where official travel status required to carry out project, such as serve as COR, experts to review reports, etc.)	\$ _____	_____ %
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>595,000</u>	<u>70</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>42,500</u>	<u>5</u> %
8. Indirect Costs	\$ <u>119,000</u>	<u>14</u> %
TOTAL:	\$ <u>850,000</u>	<u>100</u> %

Estimated Key Milestone Dates:

Milestones/Deliverables:	Date:
Completion of Environmental Documentation	March 2008
Completion of BMP Implementation	October 2009
Completion of Project Monitoring	November 2011
Final Completion Date:	November 2011

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: FS Administrative facility BMP Retrofit	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: ttorres@fs.fed.us	
Is this a multi-year Project? yes	Total Project Cost: -	
	Funding Request in this Round: \$850,000	

Project Summary (maximum 200 words):

Many USFS facilities do not meet mandated water quality protection standards and may pose a threat to the water quality of Lake Tahoe. This project will bring these facilities into compliance with adopted standards.

The project provides for the survey, design, implementation and monitoring of water quality BMPs at existing Forest Service facilities. BMP measures including dripline trenches, sand/oil separators, and regrading of sites to convey stormwater to treatment areas. These improvements will be implemented at facilities including the Old Mill Cabin, Meiss Cabin, Kiva picnic area, Newhall interpretive site, and the Tallac Historic Site.

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

Detailed Project Description:

Survey, design, implement and monitor water quality BMPs at existing Forest Service facilities. BMP measures including dripline trenches, sand/oil separators, and regrading of sites to convey stormwater to treatment areas will be implemented at facilities including the Old Mill Cabin, Meiss Cabin, Kiva picnic area, Newhall interpretive site, and the Tallac Historic Site. The current facilities do not meet mandated water quality protection standards and may pose a threat to the water quality of Lake Tahoe, and its sub-watersheds. This project will bring these facilities into compliance.

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

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. Funding for the appropriate environmental analysis and documentation to implement this project is included in this project request.

Describe partnerships for this project. (Include documentation):

n/a

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

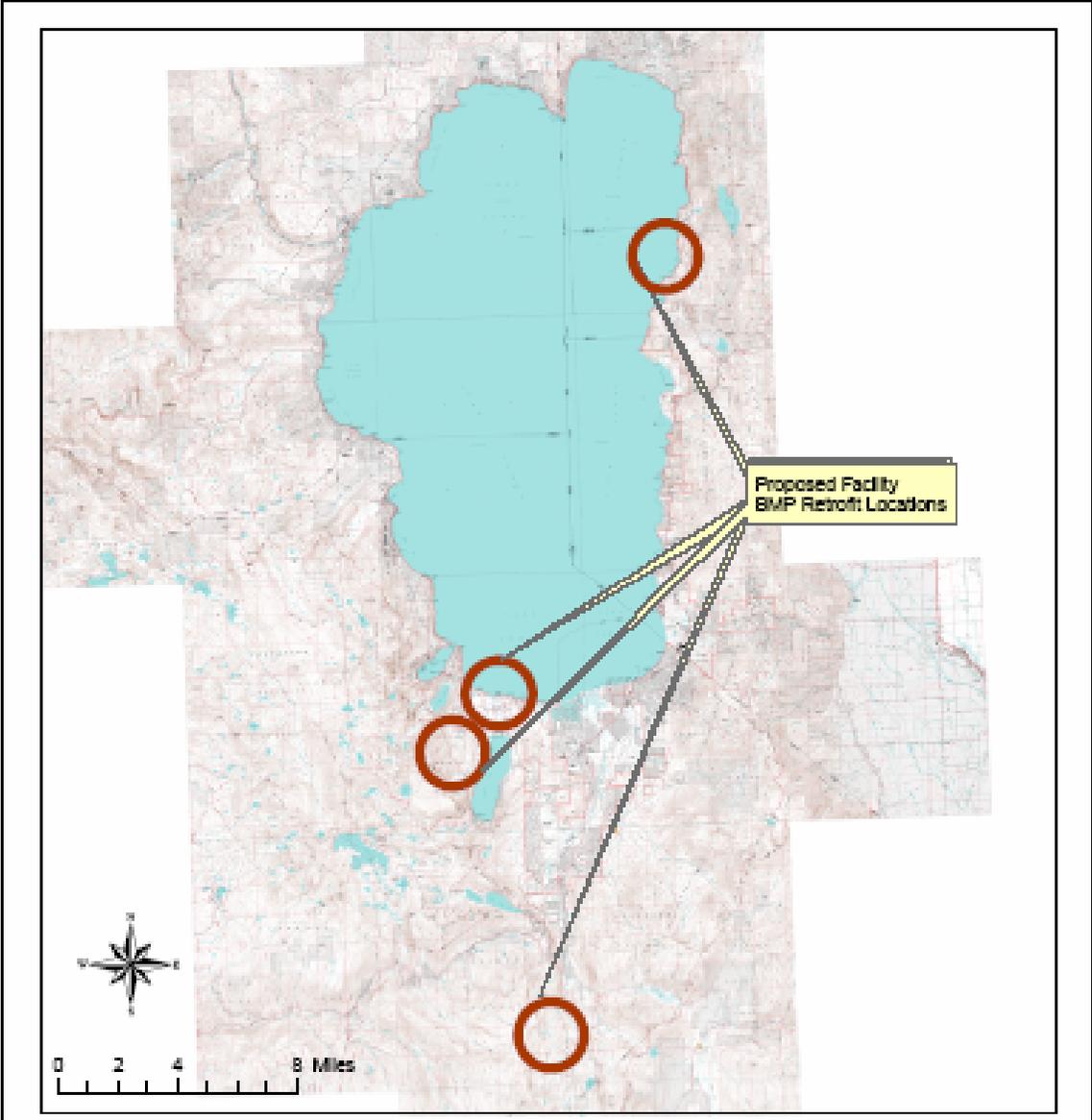
ensure that the resource protection measures specified are both being followed, and are effectiveness. Post-construction monitoring will evaluate the success of the project implementation. The facility will be evaluated for two years in the spring, summer, and fall to measure changes in sediment production 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
FS Facility BMP Retrofit -
Nevada Beach
Day Use Area & Campground

USDA Forest Service
 Lake Tahoe Basin Management Unit



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