

APPENDIX I

ROUND 8 LAKE TAHOE CAPITAL PROJECT PROPOSAL

Project Name: LTBMU – Basin Wide Trails BMP’s Ph 1

Capital Focus Area: Watershed and Habitat Improvement (Federal Vision Plan)

EIP # 965

Lead Agency: USFS - LTBMU

Contact: Garrett Villanueva

Threshold: Water Quality

Phone Number: 530-543-2762

Threshold Standard: WQ-5

Email Address: gvillanueva@fs.fed.us

Is this a multi-year Project? YES

Total Project Cost: \$5,000,000

(If “Yes”, describe in the Detailed

Project Description below number of
Years or phases and which year the
Requested funding will cover)

Funding Request in this Round: \$1,150,000

Project Summary (maximum 200 words):

This project would provide funding for planning, NEPA, implementation and monitoring of BMP and other improvements as detailed in the completed planning efforts for the Trail Access Travel Management Plans (ATM’s). There are nine established “trailsheds” within the LTBMU. The attached map shows the boundaries of the “trailsheds”. This project would include implementation of identified projects in the East Shore Beaches Area and the Fallen Leaf Lake Area. If funding is available after implementation, resource surveys and NEPA would be accomplished for the Genoa area. The trail system will be designed to reduce impacts to resources while improving access to National Forest. Trailhead improvements to access the trails will be designed to incorporate, as much as feasible, existing and planned transportation and transit opportunities to encourage use of public transit to access the trails.

This project would be the first Phase of a planned multi-phased project.

Detailed Project Description:

Within the nine trailsheds, Freel and Meiss have been completed. The North Shore ATM NEPA work is being completed. Scoping has begun and the final NEPA document is planned for completion in 2007. The preliminary project planning for the East Shore Beaches ATM has started and NEPA is scheduled to start in 2007. The Fallen Leaf Lake ATM preliminary planning and NEPA is scheduled to start in 2007. The project schedule indicates that implementation of projects within these East Shore Beaches Area and the Fallen Leaf Area are scheduled to occur in 2008. This funding would provide the funding to implement projects identified in the final NEPA documents for these two areas. Additionally, project planning and NEPA for the Genoa Area is scheduled to be start in 2008. If funding is available after implementation of projects within the East

Shore Beaches and the Fallen Leaf Area, resource surveys and NEPA would be started for the Genoa Area. Additionally, funds would be available for accomplishment of critical trail needs that relate to water quality protection within other trailsheds as those emergency needs arise. Trailhead improvements to access the trails will be designed to incorporate, as much as feasible, existing and planned transportation and transit opportunities to encourage use of public transit to access the trails.

Describe the goals and objectives of the project:

The goal is to establish a sustainable trail system and reduce impacts to resources.

Objectives include:

Reduce impacts to soils and water quality by developing a planned trail system within the ATM's.

- WQ-3. Inventory and evaluate water quality risks associated with all USFS roads, trails and recreation facilities. Provide a plan and public process to determine which roads, trails, and facilities. Provide a plan and public process to determine which roads, trails and facilities should be maintained, upgraded, relocated, or decommissioned. Decommission, relocate, maintain, or upgrade USFS roads, trails, and recreation facilities based on water quality risk assessment and public or administrative need.
- WQ-4. Upgrade all critical drainage facilities and crossings on USFS system roads, trails, and recreation facilities to withstand the appropriate storm criteria.
- 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 recreation 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.
- WQ-7. Ensure BMP effectiveness through maintenance, monitoring, evaluation, adaptive management, and public education.
- WR/HI-20. Decommission unnecessary roads and trails in sensitive wildlife habitat or re-route roads and trails around sensitive wildlife habitats.

- Combine recreation use onto designed trails.
- Close and restore trails in sensitive ecosystems or that are high risk to resources.
- Establish and BMP Trailheads.
- Protect heritage resources.
- Protect botanical resources.
- Prevent the spread of noxious weeds.
- Improve wildlife habitat.
- Establish sustainable access to National Forest.

Describe the anticipated project accomplishments:

Within the various trailsheds, numerous projects are identified but consistent themes for improvements are trail decommissioning, new trail construction to improve access and reduce coverage in SEZ's, and upgrading trails in their existing locations to minimize point and non-point storm water runoff.

Preliminary planning for the East Shore and Fallen Leaf Trailsheds show the following accomplishments planned for completion:

- System Trail Construction: 2.5 Miles
- Trail Decommissioning: 14.8 miles
- Trail Upgrades: 22.3 miles

In addition to the accomplishments listed above, trailhead improvements, stream crossings and other trail improvements directly related to water quality impacts will be planned, designed and implemented. Trailhead improvements to access the trails will be designed to incorporate, as much as feasible, existing and planned transportation and transit opportunities to encourage use of public transit to access the trails.

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

As described above, the planning and NEPA for two of the trailsheds will be complete in time for implementation of projects in 2008. Other critical projects that become apparent within other trailsheds will be analyzed on a smaller scale and implemented in a rapid time frame.

Describe partnerships for this project. (Include documentation):**

Partnerships with the Nevada Conservation Corps and California Conservation Corps are planned to reduce costs during implementation.

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

1) The questions the monitoring program is designed to answer

Are we meeting our temporary BMP requirements?

Do permanent BMPs work?

Are mitigations measures performing as stated?

What adaptive management strategies need to be implemented?

2) The monitoring approach

An Adaptive Management approach will be used to monitor the implementation and effectiveness of trail upgrades. Several approaches will be used on this project. WEPP modeling will be used to derive before/after sediment contribution and erosion. Additionally the LTBMU will use a water quality risk analysis to define risk to water quality. Further recreation patterns and impacts to wildlife, heritage resources, sensitive plants, and the spread of noxious weeds will be monitored to determine project success and adaptive management needs. 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.

3) Whether this project monitoring fits into 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 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.

See Attached map showing the trailsheds.

Appendix B-8

LAKE TAHOE RESTORATION PROJECTS ESTIMATED DIRECT COSTS & KEY MILESTONE DATES

Project Name: FS Basin-Wide Trail BMP's Ph.1 Agency: USDA FS LTBMU
 Prepared by: Thomas Torres Phone: 530-543-2696 EIP #: 965
 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>\$172,500</u> | <u>15</u> | % |
| 2. Direct Labor (Payroll) to Perform the Project | \$ | <u>\$115,000</u> | <u>10</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) | \$ | _____ | _____ | % |
| 6. Cost of Contracts, Grants and/or Agreements to Perform the Project | \$ | <u>\$713,000</u> | <u>62</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 and environmental education @2.5% | \$ | <u>\$149,500</u> | <u>13</u> | % |
| 8. Indirect Costs | \$ | _____ | _____ | % |
| TOTAL*: | \$ | <u>1,150,000</u> | <u>100</u> | % |

Estimated Key Milestone Dates:

| Milestones/Deliverables: | Date: |
|--------------------------|-------|
| | |
| | |
| | |
| | |
| Final Completion Date: | |

COMMENTS:

Lake Tahoe Basin Management Unit
 Trail Access and Travel Management Plan
 February 2004

