

APPENDIX I

**ROUND 8
LAKE TAHOE CAPITAL PROJECT PROPOSAL**

Project Name: FS Public Resorts BMP Retrofit

Capital Focus Area: Water Quality

EIP # 984

Lead Agency: USFS - LTBMU

Contact: Thomas Torres

Threshold: Water Quality

Phone Number: 530.543.2696

Threshold Standard: WQ-5

Email Address: ttorres@fs.fed.us

Is this a multi-year Project? yes

Total Project Cost: \$22,000,000

(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: \$950,000

Project Summary (maximum 200 words):

This project will be a multi-phased effort to protect water quality resources. Many USFS managed public resorts do not meet established environmental goals or Thresholds and may pose a threat to the water quality of Lake Tahoe. This project provides for the planning, NEPA, survey, and design of water quality BMPs at existing Forest Service public resorts including but not limited to Meeks Bay Resort, Zephyr Cove Resort, Round Hill Pines Resort and Camp Richardson Resort. BMP measures include but are not limited to, reduction of coverage, elimination or relocation of facilities out of SEZ's, road surface and drainage improvements, dripline trenches, sand/oil separators, and re-grading of sites to convey stormwater to treatment areas. This project is phase 1 of a major multi-phased effort to protect water quality resources at heavily used public resorts in close proximity to the Lake Tahoe Shore.

Detailed Project Description:

Forest Service Public Resorts have significant deficiencies that may contribute to degraded water quality within the basin. Mandated building and site improvements will be installed. Design of improvements to minimize both “point-source” and “non-point source” pollution will be completed using established and newly identified techniques. Improved techniques and methods, learned from previous monitoring efforts, will be reviewed and incorporated as needed in order to provide optimal efficiency of implemented improvements.

Specific issues that will be addressed include reducing “soft” and “hard” coverage areas, improving pedestrian and vehicle traffic patterns to minimize compacted soils, de-compaction of soils to increase infiltration and promote vegetation growth, removal and/or relocation of constructed features in SEZ’s, re-grading of roads, trails, and use sites in order to properly drain areas and to minimize “point-source” and “non-point source” storm water run-off. Treatment techniques that minimize long-term maintenance, maximize infiltration and eliminate run-off from the project site will be implemented. Where applicable, improvements meeting other goals such as promoting mass transit, redesigning aging infrastructure that pose a threat to water quality, and meeting other standards will be taken into consideration during design and implementation.

These improvements will be implemented at public lakefront resorts including, but not limited to, Meeks Bay Resort, Zephyr Cove Resort, Round Hill Pines Resort and Camp Richardson Resort.

Describe the goals and objectives of the project:

The primary goal of this project is to bring the resorts into compliance with established water quality “Thresholds” thereby protecting the water quality of Lake Tahoe from impacts associated with uncontrolled stormwater runoff. The principle objectives for the project will be to “Improve water quality by reducing sediment (source control) on lands managed by federal agencies” (Federal Vision Plan Objective WQP-S2, Pg. 21)

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 be “fine tuned” if necessary to meet the resource protection goals.

Describe the “readiness” of this project to move forward (urgency, capacity, capability, 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):**

Partnership funding will be available through resort permittee’s fee offset program to

compliment SNPLMA environmental improvement investments. Resort fee offset spending plans can be modified to secure partnership contributions, once funded projects have been identified.

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

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

(1) To what degree has the implementation of Facilities Retrofit BMPS been successful in reducing water quality impacts? (I)

(2) Are Temporary BMPS being adequately designed, implemented and maintained during construction projects?(I)

(2) The monitoring approach

Qualitative surveys using an approach similar to that established in the Region 5 BMPEP program will be developed and utilized to determine whether permanent and temporary BMPs were implemented as designed, and effective in preventive adverse soil and water quality impacts. Implementation evaluations are conducted immediately following implementation, and effectiveness evaluations are conducted at least once during spring runoff or after major storm events post construction

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

This monitoring is part of the LTBMU 5 Year Plan for project level monitoring of Forest management activities as it relates to impacts to Lake Clarity. The results from the monitoring program for this project will be available to provide input to the Total Maximum Daily Load (TMDL) model that is currently being developed by the Regional Water Quality Control Board.

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

Results/accomplishments summarized in Annual Forest Monitoring Program Report, as well as project-specific monitoring reports. Project/Program specific monitoring reports will be produced one to five years after project implementation, depending on the variables being monitored and the questions to be answered.

The information created from this project will be disseminated to three audiences: 1) the general public, 2) other resource agencies, and 3) the broader scientific community. The audiences will be informed respectively through the USFS website, public/interagency meetings, and peer-reviewed publication.

Include an 8 ½ X 11 map depicting the project.

See Attached Map

Appendix B-8

LAKE TAHOE RESTORATION PROJECTS ESTIMATED DIRECT COSTS & KEY MILESTONE DATES

Project Name: FS Public Resorts BMP Agency: USDA FS LTBMU
 Prepared by: Retrofits Phone: 530-543-2696 EIP #: 984,
Thomas Torres SNPLMA Project #:

Identify estimated costs of eligible reimbursement expenses:

<p>1. Planning, Environmental Assessment and Research Costs (specialist surveys, reports, monitoring, data collection, analysis, NEPA, etc.)</p>	\$ <u>95,000</u>	<u>10</u> %
<p>2. Direct Labor (Payroll) to Perform the Project</p>	\$ <u>95,000</u>	<u>10</u> %
<p>3. Project Equipment (tools, software, specialized equipment, etc.)</p>	\$ _____	_____ %
<p>4. Travel (including per diem where official travel status required to carry out project, such as serve as COR, experts to review reports, etc.)</p>	\$ _____	_____ %
<p>5. Official Vehicle Use (pro rata cost for use of Official Vehicles when required to carry out project)</p>	\$ <u>9,000</u>	<u>1</u> %
<p>6. Cost of Contracts, Grants and/or Agreements to Perform the Project</p>	\$ <u>627,500</u>	<u>66</u> %
<p>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 ed.</p>	\$ <u>123,500</u>	<u>13</u> %
<p>8. Indirect Costs</p>	\$ _____	<u>14</u> %
TOTAL*:	\$ <u>950,000</u>	<u>100</u> %

Estimated Key Milestone Dates:

Milestones/Deliverables:	Date:
Complete resource surveys	November 2008
Complete NEPA	March 2009
Contract Construction	May 2009
Complete Implementation	November 2010
Final Completion Date:	December 2010

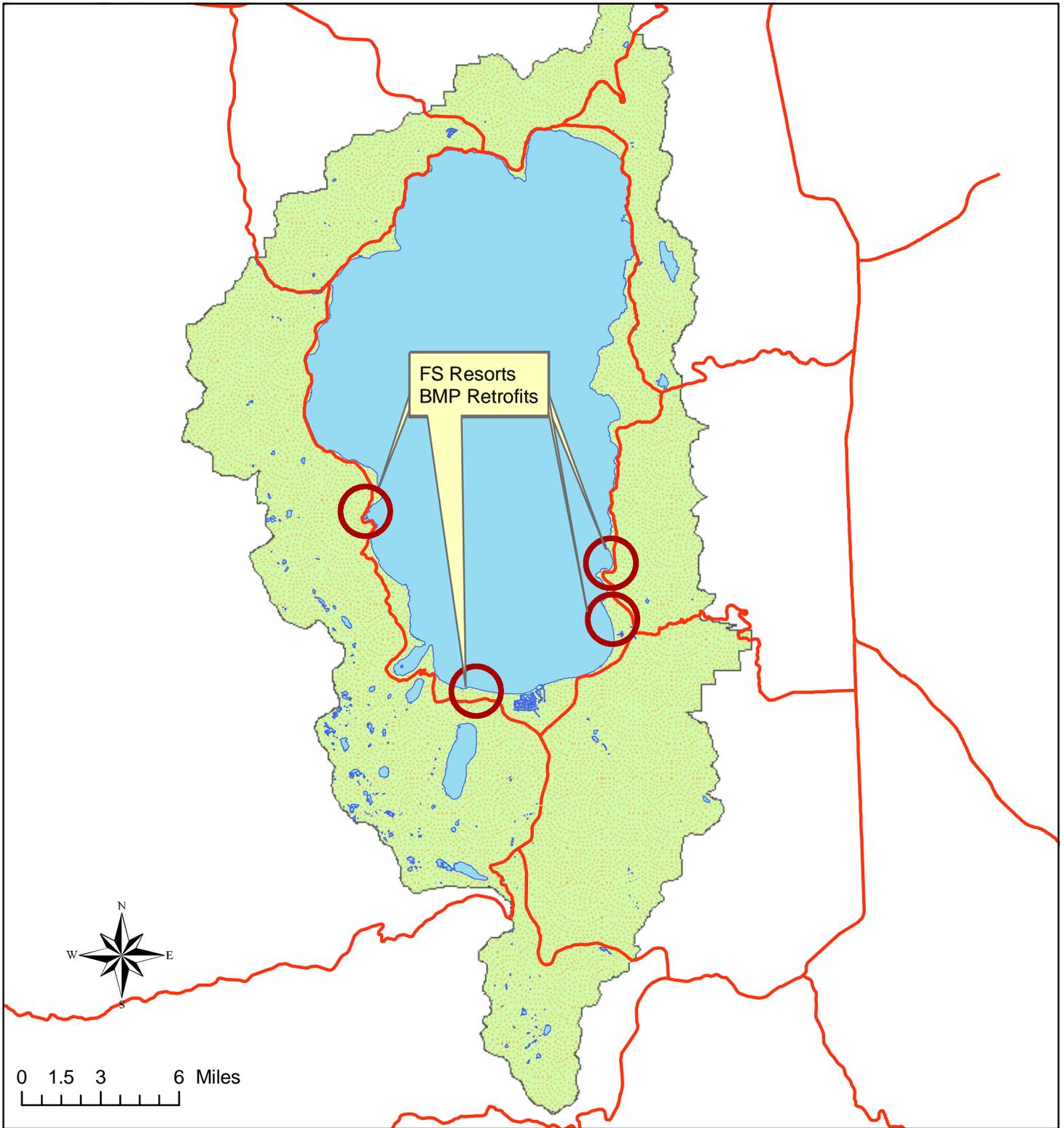
COMMENTS:

This project will help bring a Forest Service public lakefront resorts into compliance with water quality protection measures.

public/agency review and use upon request.

Include an 8 ½ X 11 map depicting the project.

See Attached Map



SNPLMA PROJECT PROPOSAL

Forest Service Resorts BMP Retrofit

USDA Forest Service
Lake Tahoe Basin Management Unit



The Forest Service uses the most current and complete data available. GIS data and product accuracy may vary. They may be developed from sources of differing accuracy; accurate only at certain scales; based on modeling or interpretation; incomplete while being created or revised; etc. Using GIS products for purposes other than those for which they were created, may yield inaccurate or misleading results. The Forest Service reserves the right to correct, update, modify or replace GIS products without notification.

For more information, contact: Lake Tahoe Basin Management Unit
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