

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

Storm Water Treatment

Project Name: Practices Agency: USACE
 Prepared by: Carrie Temple Phone: 916-557-7714 EIP #: 10109
 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.)	\$ _____	_____ %
2. Direct Labor (Payroll) to Perform the Project	\$ _____	_____ %
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.)	\$ <u>2,000</u>	<u>0.4</u> %
5. Official Vehicle Use (pro rata cost for use of Official Vehicles when required to carry out project)	\$ <u>500</u>	<u>0.1</u> %
6. Cost of Contracts, Grants and/or Agreements to Perform the Project	\$ <u>375,000</u>	<u>75</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>122,500</u>	<u>24.5</u> %
TOTAL*:	\$ <u>500,000</u>	<u>100</u> %

Estimated Key Milestone Dates:

Milestones/Deliverables:	Date:
Process Task Order to Bureau of Land Management	1 Nov 2005
Scope of Work	1 Dec 2005
Contract Award	1 Jan 2006
Draft Report	1 Jul 2006
Final Report	1 May 2007
Final Completion Date:	1 June 2007

COMMENTS:

#7 above includes project contingency

SCIENCE, RESEARCH & MONITORING TAHOE PROJECT PROPOSAL

Project Name: Storm Water Treatment Practices

EIP # 10109

Lead Agency: US Army Corps of Engineers
(USACE)

Contact: Phillip Brozek

Phone Number: 916-557-7630

Threshold: Water Quality

Email Address: Phillip.F.Brozek@usace.army.mil

Threshold Standard: WQ2-B, C & D Winter
Clarity, WQ-5 Stormwater Runoff Quality –
Surface Water (critical project), WQ-6
Stormwater Runoff Quality - Groundwater
(critical project)

Total Project Cost: \$1,150,000 (Round 5 provided
\$650,000 of this)

Round 6 Funding requested: \$500,000

Is this a multi-year project? Yes/No

Project Description:

Provide a quantitative assessment of the effectiveness for current and emerging technologies and methodologies to reduce the deleterious effects of storm water. Develop, including stakeholder input, an array of pollutant reduction options and associated parameters for use in non-residential scale projects including cost estimates and economic assessment. This project is the second half of a project approved in SNPLMA Round 5.

For Science & Research Projects briefly summarize the current state of knowledge of this subject matter:

No protocols currently exist to give resource managers who are considering a variety of BMPs the ability to estimate pollutant load reduction, to track and credit pollutant load reductions over time, or to assess the economics of the various BMPs.

Describe the purpose and need for the project:

The evaluation of BMP effectiveness is a developing science with very little quantitative information available for the analysis of BMP performance or for BMP representation in modeling applications. No protocols currently exist to give resource managers who are considering a variety of BMPs the ability to estimate pollutant load reduction, to track and credit pollutant load reductions over time, or to assess the economics of the various BMPs. It is important to budgeting processes that resource managers are aware of the economics associated with implementation of selected BMPs. This project is needed to fill an existing data gap and provide much-needed information for use in developing the Lake Tahoe total maximum daily load (TMDL) implementation plan.

Describe the goals and objective of the project (for Science & Research Projects describe Key Management Questions being addressed):

This project would provide information on protocols for evaluating BMP performance, develop quantitative representations of BMP effectiveness, evaluate options for pollutant load reductions, and evaluate economic considerations of BMP implementation throughout the Lake Tahoe Basin.

Describe the anticipated project accomplishments:

Products developed by this project would include: 1) a matrix of pollutant load reduction options and associated parameters developed in an agency stakeholder process, 2) quantitative assessments of BMP effectiveness for selected BMPs, and 3) cost estimates and economic assessments of BMP opportunities in the Lake Tahoe Basin.

Describe the “readiness” of this project to move forward (environmental documentation, etc.):

This project is ready to move forward when funding is provided. No environmental documentation is required. The Lake Tahoe TMDL implementation plan is currently under development with an expected completion date in the winter of 2006. Resources are critical at this juncture to ensure the TMDL implementation plan moves forward on this schedule.

Describe partnerships for this project (include documentation):

The Lake Tahoe TMDL implementation plan is a bi-state effort being developed in partnership with numerous agencies including the Nevada Department of Environmental Protection, Tahoe Regional Planning Agency, US Forest Service, US Army Corps of Engineers, US Environmental Protection Agency, California Air Resources Board, and the California Tahoe Conservancy. The project scope of work would be developed using a collaborative stakeholder process.

For Science & Research Projects describe how this project will guide future management activities:

The project would provide data and assessments regarding BMP effectiveness that would be used in development of the TMDL implementation plan. The TMDL implementation plan will help guide and evaluate future agency actions and decisions, including implementation of the Environmental Improvement Program (EIP) and other restoration and pollution control activities.

Include an 8 ½ X 11 map depicting the project, or research/study area. N/A