



United States
Department of
Agriculture

Forest
Service

Lassen
National
Forest

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Susanville, CA 96130
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FI-005

File Code: 1560 (2520)

Date: July 23, 1997

CALFED Bay-Delta Program Office
1416 Ninth Street, Suite 1155
Sacramento,
CA 95814

Gentlemen:

We are responding to your 1997 Category III Request for Proposals. Enclosed, please find 10 copies of our formal proposal to conduct ecosystem restoration work on National Forest Lands in the Deer, Mill, and Antelope Creek watersheds (all located in the Butte Basin). This Proposal represents Phase I of a two phase project to stabilize sediment sources and to acquire private lands for the purpose of improving riparian and instream conditions in these watersheds. Problems and land acquisition opportunities identified in Phase I would be addressed in Phase II.

As indicated in the title page, our Forest Hydrologist, Steve Young, is my primary representative in CALFED matters at this stage. Should our proposal be funded, my Chief Financial Officer, Karyl Georgio would be the primary contact for fiscal matters. Both of them can be reached at the above address. Our office telephone number is (916) 257-2151, and our FAX number is (916) 252-6428. Please telephone Steve Young if you have any questions about the enclosed formal proposal.

KENT P. CONNAUGHTON
Forest Supervisor

ENCLOSURES: 10 copies, Phase I formal proposal

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EXECUTIVE SUMMARY

Formal Category III Ecosystem Restoration Proposal from Lassen National Forest

A. Project title and applicant name

Title: "Watershed improvement: stabilization of potential sediment sources within the Deer, Mill, and Antelope Creek Watersheds on Lassen National Forest lands, (Phase 1 of 2 phases)"

Applicant: USDA, Forest Service, Lassen National Forest

B. Project description and primary biological/ecological objectives:

This formal proposal is for funding to complete Phase I of a two phase strategy to reduce generation of fine sediment from upland and riparian, road-related sources in the Deer, Mill, and Antelope Creek watersheds. The first phase would provide long term benefits to spring-run chinook salmon and steelhead habitat by stabilizing known sediment sources, including some road problems, landings, and skid trails. In addition, Phase I would update and expand existing road problem inventories, leading to development of a comprehensive road management plan for the National Forest portion of those watersheds. Also, new land acquisition and exchange inquiries would be pursued, with the goal of identifying willing sellers for subsequent CALFED purchase action. (In addition to consultation with responsible agencies about threatened and endangered species effects, archaeological inventory, evaluation, and recovery actions are also a notable planning cost factor in these watersheds.) These three, Phase I tasks would prepare for Phase II, which would consist of extensive construction contracts to remedy road-related problems identified in Phase I and to complete land acquisition actions identified in Phase I.

Deer, Mill, and Antelope Creek are special because they are unobstructed inland streams that are still used by anadromous species (spring-run and fall-run chinook salmon, winter-run steelhead). Such streams are rare in California, particularly in the Sacramento River system. The objectives of both phases are the stabilization of fine sediment sources and the consequent protection and improvement of instream and downstream fisheries habitat and water quality. The ecosystem improvements constructed under these proposals would create long term, stable benefits. Maintenance would be assumed by the Forest Service.

C. Approach/tasks/schedule

This project would be accomplished in two phases. This proposal is for Phase I funding, to finance three tasks: (1) Implement stabilization of known problems; (2) Inventory, design, and planning for stabilization of remaining road-related problems; and (3) Identify willing sellers or private parties interested in land exchange, with priority to acquiring riparian parcels. Phase I would be accomplished over a three year period, from 1998 to 2000. A subsequent Phase II would accomplish repair of sites identified in task 2 of Phase I and acquisition of private lands or conservation easements from willing sellers. The formal proposal for Phase II would be submitted in 2000, for accomplishment in the 2001-2003 period.

Each phase would include monitoring and evaluation of construction activities.

D. Justification for Project and Funding by CALFED

National Forest funds, based on the last few years' allocations, will allow (at best) only a gradual accomplishment of stabilizing measures proposed in this proposal. Timber sale revenues would be a potential source of additional funds, but these watersheds are currently restricted from timber harvesting on National Forest lands. CALFED funding would promote development of an integrated road management plan that would meet PACFISH requirements in these watersheds and the stabilization of at least the high priority sediment sources over the next six years. Without CALFED support, it could take 20 years to attain the same benefits.

E. Budget Costs and Third Party Impacts

Requested CALFED funding for this project (Phase I) is \$371,000. The proposed Forest Service contribution is \$69,000. The only anticipated third party impacts would be from a loss of vehicle access to some roads that would be decommissioned or obliterated.

F. Applicant Qualifications

The Lassen National Forest and its Almanor Ranger District include staff hydrologists, fisheries biologists, wildlife biologists, archaeologists, botanists, and engineers to develop the proposed inventories, site surveys, designs and other products and to administer construction contracts. The Forest also has an experienced fiscal and accounting staff to maintain the fiscal integrity of the proposed project.

G. Monitoring and Data Evaluation

The Forest and District staff are experienced with monitoring and evaluation of similar watershed improvement and fisheries projects, as are the engineering staff. Monitoring for the proposed project will be largely based on existing protocols, e.g. the Pacific Southwest Region's Best Management Evaluation Process, but some new archiving methods may be developed, including digital photography of before and after site pictures.

H. Local Support/Coordination with other Programs/Compatibility with CALFED objectives.

The proposed project is fully consistent with CALFED objectives that emphasize positive effects on habitat for spring-run chinook salmon and steelhead. The project would also reduce downstream movement of sediment from three watersheds in CALFED's "Butte Basin" area. This proposal is compatible with ongoing coordination between the Lassen National Forest, the Deer Creek and Mill Creek Conservancies, and private landowners. This project is consistent with initiatives and policies advocated by the Quincy Library Group.

WATERSHED IMPROVEMENT:
STABILIZATION OF POTENTIAL SEDIMENT SOURCES
within
UPPER DEER, MILL, AND ANTELOPE CREEK WATERSHEDS
PHASE I of TWO PHASES

Applicant: Lassen National Forest

Principal Investigator: L. Stephen Young, Forest Hydrologist
Supervisor's Office, Lassen National Forest
55 S. Sacramento Street
Susanville, CA 96130
Phone: (916) 257-2151
Fax: (916) 252-6428

Type of Organization/
Tax Status: Federal Government/Exempt

Tax ID Number/
Contractor License: Not Applicable

Technical/
Financial Contacts: L. Stephen Young, Forest Hydrologist, Supervisors Off.
Jules Riley, Hydrologist, Almanor Ranger District
Karyl Georgio, Chief Financial Officer, Supervisors O.

Participants/
Collaborators: Lassen National Forest
Deer Creek Watershed Conservancy
Mill Creek Conservancy
Sierra Pacific Industries
Collins Pine Company

RFP Project Group Types: Type 1 (Construction)
Type 3 (Other Services)

III. Project Description

A. Project Description and Approach

This proposal contains three components: implementation of erosion control measures, planning for future road related erosion control measures and evaluation of private land acquisition.

Implementation of Erosion Control Measures: This component includes site planning and implementation (and implementation and effectiveness monitoring) of erosion control measures on sites that have recently been identified. Sites for this work are on National Forest lands, and consist primarily of roads to be decommissioned and landings to be ripped and revegetated. Some roads, and most landings to be treated are located in near-stream environments. We estimate approximately 20 landings, and 3 miles of road will be treated. Treatments include outsloping, subsoiling and ripping, removal of culverts, outsloping, water-barring and barrier placement on roads, and similar measures (except for culvert removal) for landings. A few other site-specific problems (gullies associated with skid trails, etc.) will also be treated.

Planning for Future Road Related Erosion Control Measures: This component includes site survey, development of a road management plan, identification of treatment needs, and site design and coordination with private landowners, cost share road partners, etc. Road surveys are already available for the Deer and Mill Creek watersheds. This component would fund a second look at the survey to assess changes to sites from the January 1, 1997 storm. This look is necessary to see if sites previously classed as "moderate risk" in terms of sediment production were altered by floods to elevate them to higher priority sites for treatment. Road surveys of the Antelope Creek Watershed would also be conducted. Site-specific plans for all priority sites would be prepared, so that in the next project phase, contracts could be prepared and fully-mitigated projects would be implemented. Priority sites are those that currently are high sediment producers, or have a risk of being high sediment producers. A road management plan would be prepared for the Antelope, Deer and Mill Creek watersheds. This plan would identify appropriate maintenance levels for all roads on the system, and identify additional roads for obliteration. Roads would also be identified for seasonal closure. Because much of the three watersheds are privately owned, development of this plan would involve considerable coordination with the private landowners.

Evaluation of Private Land Acquisition Opportunities: This component involves contact of owners of key parcels in the watershed (floodplains, inner gorges, areas with very high erosion hazard) to discuss interest in acquisition by or exchange to the Forest Service.

B. Location and/or Geographic Boundaries of the Project

This project would occur on the Lassen National Forest within the Antelope, Deer and Mill Creek watersheds (Attachment A). These watersheds lie primarily in Tehama County. Small portions of the Mill Creek watershed lie in Shasta County.

C. Expected Benefits

Objectives of this project are to protect and improve holding, spawning, and rearing habitat for anadromous fish by reducing surface erosion inputs to Antelope, Deer and Mill Creeks. Stressors are related to sediment, and its impacts to water quality and holding, rearing, and spawning habitats in the watersheds for steelhead and spring-run chinook salmon, and downstream for fall-run chinook salmon. Antelope, Deer and Mill Creeks are among the few streams tributary to the Sacramento that provide habitat to wild populations of anadromous fishes. These watersheds, especially Deer and Mill Creeks, are recognized as anchors to the long term restoration of anadromous populations at the larger scale.

Roads have been shown by numerous studies to be the primary source of sediment in wildland watersheds. This general finding is supported by the draft (1997) Watershed Analysis for the three watersheds, which found an increase in surface erosion to be an issue, and roads to be the primary source of this erosion. Roads are related primarily to present and past timber management activities in the watershed, and occur on both private and public lands. The expectation is to reduce erosion produced by roads in the watershed (at least those on public lands) by a measurable amount. A recent inventory of road related erosion revealed that, as might be expected, not all road segments have equal erosion rates. In Deer and Mill Creeks, 50% of the estimated erosion occurred on only 5% of the roads. Directing efforts to control erosion on these segments (and ultimately, on similar segments in the Antelope Creek Watershed) should measurably decrease sediment production in the watersheds. Though the natural variability in sediment production is high, and links to anadromous and other aquatic habitat are not direct, these efforts will provide a high degree of protection for habitat in these watersheds, even if changes in habitat cannot be detected in the short term.

D. Background and Biological/Technical Justification

As stated earlier, a recently completed (1997) draft Watershed Analysis of these watersheds identified control of surface erosion as a top priority. The analysis concluded that there has been a shift in the erosion regime in the watersheds from one dominated by mass wasting (which occurs primarily in the unroaded portions of the watersheds) to one that is influenced by chronic surface erosion in addition to mass wasting. Surveys have determined that roads are the primary erosion source. The present proposal calls for treatment (outsloping, drainage improvement, stream crossing improvements) of high erosion producing road segments, in addition to decommissioning some road segments. Alternatives to this approach which would result in at least an equal amount of sediment reduction are decommissioning or obliterating large segments of roads. This option is less likely given the mixed ownership pattern of the watersheds.

The duration of the benefits (reduced sediment production) should be long term. Those roads that are decommissioned will have greatly reduced sediment production and will require minimal maintenance to keep them in a stable condition. For roads that will be treated, prescriptions that require low maintenance (e.g. outsloping) will be emphasized, as will prescriptions that lower existing risk of site failure (bridges, low water crossings, debris

racks, surfacing, or other measures). The project should help to return the sediment and runoff regimes in the watersheds closer to their natural condition.

Addressing erosion sources in these basins is an ongoing project. Recent work has been minimal due to emphasis placed on completing the Watershed Analysis, the logic being that the analysis would help focus constrained restoration dollars on the highest priority sites. In the past, efforts have focused on improving stream crossings (confirmed by the road survey to be the highest source of sediment) and at spot surfacing of highly erosive surfaces. The CALFED funding opportunity affords the chance to greatly accelerate accomplishing necessary work. The Watershed Analysis (draft) for Antelope, Mill and Deer Creek watersheds, and the 1996 road inventory conducted by Meadowbrook Conservation Associates provide the basis for the proposal.

Likewise, the Forest investigated acquisition of private parcels in these watersheds five to six years ago. Although there was little interest in either sale or exchange at that time, conditions have changed and there is some indication that acquisitions or exchanges for key parcels may be a possibility and should be explored.

E. Proposed Scope of Work

This proposal is what we consider "Phase I" of a larger watershed restoration project. Tasks identified in Phase I will be implemented over the next three years. Some of the tasks in this phase involve planning for future (more than three years from now) implementation. For example, planning for future road-related erosion control measures within the next three years will generate projects to be implemented starting in 2001. Similarly, planning in the next three years for land acquisitions may lead to acquisitions in out-years. These two examples would be considered "Phase II" of this watershed restoration project.

The following list displays the specific tasks and deliverables of Phase 1. These tasks will be conducted concurrently for approximately the next three years.

Task 1: Implementation of erosion control measures at known sites.

- a. site survey/design
- b. NEPA process and ESA consultation
- c. contract preparation
- d. project implementation/contract administration
- e. monitoring/evaluation/reporting

Task 2: Planning for future road-related erosion control measures.

- a. update road-related erosion site survey for Deer and Mill Creek watersheds (because of the January 1997 storm) and survey Antelope Creek watershed
- b. coordinate with cost-share cooperators, conservancies, county, and private landowners during 2a and 2c.
- c. update Forest Service road inventory database and add to GIS
- d. prepare a Road Management Plan for the three watersheds (identify/prioritize locations to control erosion)

e. site survey/design

Task 3: Evaluate land exchange opportunities for acquisitions in the three watersheds.

- a. contact private landowners to determine interest in selling/exchanging land

Deliverables: Financial reports meeting the needs of CALFED and including progress updates will be submitted at the end of each calendar year. Monitoring and evaluation reports will be submitted to CALFED annually and at time of completion. If requested by CALFED, copies of the updated road problem inventory and assessment, NEPA documents, newly-developed Arc-info coverages, and the Road Management Plan would also be provided.

F. Monitoring and Data Evaluation

The Lassen National Forest already has in place a long-term plan to monitor the trend in condition of streams in the three watersheds. This plan includes in-stream assessments of reaches on all three streams' main channels and seven tributaries. The protocol has undergone external review. Prior to project implementation, the Forest will review the monitoring plan with the California Department of Fish and Game, Department of Water Resources, the Central Valley Regional Water Quality Control Board, U.S. Fish and Wildlife Service, and National Marine Fisheries Service, to confirm the sites and attributes included in the plan will adequately assess effectiveness of the project. Data from these sites will help assess the effectiveness of the implemented treatments on aquatic habitat condition.

In addition, the Pacific Southwest Region of the Forest Service has adopted protocols for on-site evaluation of watershed restoration practices. These procedures underwent extensive external review during their development in 1992-3. The evaluations include assessment of both implementation and effectiveness. These on-site evaluations would be conducted at each project site. As with the in-stream assessments, these protocols will be reviewed prior to project implementation to confirm they will provide adequate data.

Data from both efforts will be summarized annually, and the partners listed above will be consulted to review interpretation of results. In addition, results will be reported to CALFED.

G. Implementability

We believe that there will be strong support for this project from the Deer and Mill Creek Conservancies, and other local groups and persons. All Forest Service actions require compliance with National Environment Protection Act, the Endangered Species Act and other environmental laws and regulations. Preparation of environmental documents, public scoping, coordination and consultation are provided for in the project proposal. Construction work would be conducted during the summer field season, so climatic conditions should not affect outcome of the project.

IV. Costs and Schedule to Implement Proposed Project

a. Budget Costs

Budget costs for the proposed tasks in Phase I are summarized in Table 1 (Attachment B). The expected contributions from National Forest funds are included in that table, and they would total \$69,000. The requested CALFED funding to complete the tasks detailed in the table is \$371,000. This project would set the stage for a Phase II implementation project (to be detailed in a subsequent proposal) that would eliminate or greatly reduce road-related sediment sources in the Deer, Mill, and Antelope Creek watersheds. Phase I as proposed in this proposal would accomplish needed archaeological inventory and evaluation work attendant to the identification of road problems, as well as consultation with various agencies concerning proposals with potential to affect threatened or endangered species (i.e. spring-run chinook salmon and steelhead).

Considering existing and proposed wilderness designations in the middle lower and middle reaches of some of the watersheds, as well as the current restrictions on National Forest timber sales in all three drainages, Forest Service money sources for this kind of project would be limited to at most \$20,000 to \$40,000 per year from watershed and fisheries funds. Long term sediment reduction would be most rapidly accomplished with CALFED support. Without that support, it could take up to 20 years to rehabilitate the high priority problem sites, and other sites would be deferred indefinitely.

In Phase I, two subtasks involve other than public agency contract work. Construction contracts would be subcontracted to State requirements for Task 1d. A service contract would be subcontracted to State standards for subtask 2a., except that the work would probably be committed, under a justification of special circumstances, to Meadowbrook Conservation Associates, who have already completed the initial study for road system problems in Deer and Mill Creeks, under a contract from the National Fish and Wildlife Foundation. Task 2a. would extend that 1996 inventory to include the Antelope Creek watershed, using the same protocols. Long term maintenance for the ecosystem improvements constructed under both Phase I and II of this project would be assumed by the Forest Service, without additional CALFED funding requirements.

b. Schedule milestones

The proposed schedule for the tasks included in Phase I is described in Table 2, in Attachment B. Phase I would be accomplished over the period 1998-2000. Phase II would depend on inventories, designs, plans, and mitigative measures developed in Phase I. If Phase I is funded, the proposed schedule for Phase II is described in Table 2. A separate proposal for Phase II would be submitted in the year 2000.

c. Third party impacts

There would be no significant third party impacts in Phase I, except that vehicle access would be reduced to some areas, to the extent that spur roads are barricaded and decommissioned.

V. Applicant Qualifications

The Lassen National Forest has on staff a group of well qualified and very experienced resource professionals. The key staff that would provide oversight for project planning and implementation would include fishery biologists, hydrologists and engineers with support from archaeologists, wildlife biologists, botanists, and fiscal administrators. Members of the group have extensive experience in watershed restoration and knowledge of the subject watersheds.

In addition to the existing staff, support by other qualified resource professionals will be needed from other Forests (or through contract) to assist in project planning and implementation.

The Lassen National Forest has maintained an active role in the coordination of watershed management planning efforts with the Deer Creek Watershed Conservancy, Mill Creek Conservancy, Collins Pine Company and Sierra Pacific Industries. We view the collaborators as ongoing participants in the areas of general project planning and implementation, especially where there are mutual interests and needs (e.g. cost-share roads). The extent of the collaborators' involvement is unknown at this time but is thought to be high given present level of interest in continued cooperative watershed planning and the number of cost-share roads throughout the watersheds.

Lassen National Forest Project Staff (position and qualifications):

Almanor Ranger District

Ken Roby	District Fisheries Officer. B.S. Conservation of Natural Resources, M.S. Aquatic Ecology. Two years as Fisheries Biologist, East Bay Regional Parks. Nineteen years with Forest Service including Fisheries, Hydrology and Resource Officer positions (Plumas and/or Lassen). Experience in program planning, watershed restoration and implementation.
Jules Riley	District Hydrologist. B.S. Hydrology. Two years as a hydrologist with E.A. Engineering. Eight years as a district hydrologist with the Forest Service. Experience in program planning, watershed restoration and implementation.
Susan Chappell	District Fisheries Biologist B.S. Natural Resources Management. Two years as Wildlife Biologist, California Department of Fish and Game. Two years as Wildlife Biologist, Forest Service (Plumas). Seven years as Fisheries Biologist, Forest Service (Lassen). Experience in recommending stream crossing designs; road and landing decommissioning to benefit aquatic resources; program planning and implementation.

Diane Watts District Archaeologist.
B.A. Anthropology, M.A. Anthropology. Twenty one years as
an Archeologist.

Scott Armentrout District Wildlife Biologist.
B.S. Wildlife Science. Five years as wildlife biologist and
four years as Fish/Wildlife/Range Staff (Rogue River N.F.);
one year as district wildlife biologist on Lassen N.F.

Supervisor's Office

Steve Young Forest Hydrologist.
B.S. Forest Management, M.S. Watershed Management. Two
years as sale preparation forester and two years as Zone
Hydrologist (Plumas). Four years as District Resource
Officer and thirteen years as Forest Hydrologist (Lassen).
Experience in watershed restoration, planning and
implementation.

Melanie McFarland Forest Fisheries Biologist.
B.S. Fisheries. Five years of seasonal fisheries experience
working for private organizations, consultants and the
California Department of Fish and Game. Three years as
Fisheries Biologist with the U.S. Fish and Wildlife
Service. Eight years as Forest Fisheries Biologist
(Lassen). Experience in program planning and
implementation.

Rick Kennedy Assistant Forest Engineer
B.S. Civil Engineering. Registered Civil Engineer in the
State of California. Thirty four years with the Forest
Service working in all engineering disciplines including
roads, bridges, dams, buildings, water systems, sewer
systems, etc.

Karyl Georgio Forest Chief Financial Officer.
B.S. Outdoor Recreation Planning. Two years manpower
development specialist and ten years business
administrator. One year in present position.

Beth Corbin Forest Botanist
B.S. Botany, M.S. Botany/Plant Ecology. Forest Service
experience as fuels and forestry technician. Eight years as
Forest Botanist (Lassen). Experience in recommending and
collecting native plant species for revegetation projects.

Lois Charlton Forest Lands Officer.
Four years college coursework. Seven years as realty
specialist and three years as Forest Lands Officer (Lassen).

VI. Compliance with Standard Terms and Conditions

Per Table D-1 (Attachment D) in the CALFED RFP, considering the inclusion of both construction tasks and services tasks in this Phase I proposal, endorsed forms for item 8 (Non-Discrimination compliance) and item 11 (Noncollusion) are enclosed after Attachment B.

Item 1 (Public entities), Item 4 (Public works), Item 5 (Insurance requirements), Item 6 (Nondiscrimination), Item 9 (Cert of Insurance), and Item 10 (Payment bond) will be submitted after award of any CALFED contract for this PHASE I proposal, no later than at the time of signing.

Attachment A
Project Vicinity Map: Lassen National Forest
Deer, Mill, Antelope Creek Watersheds

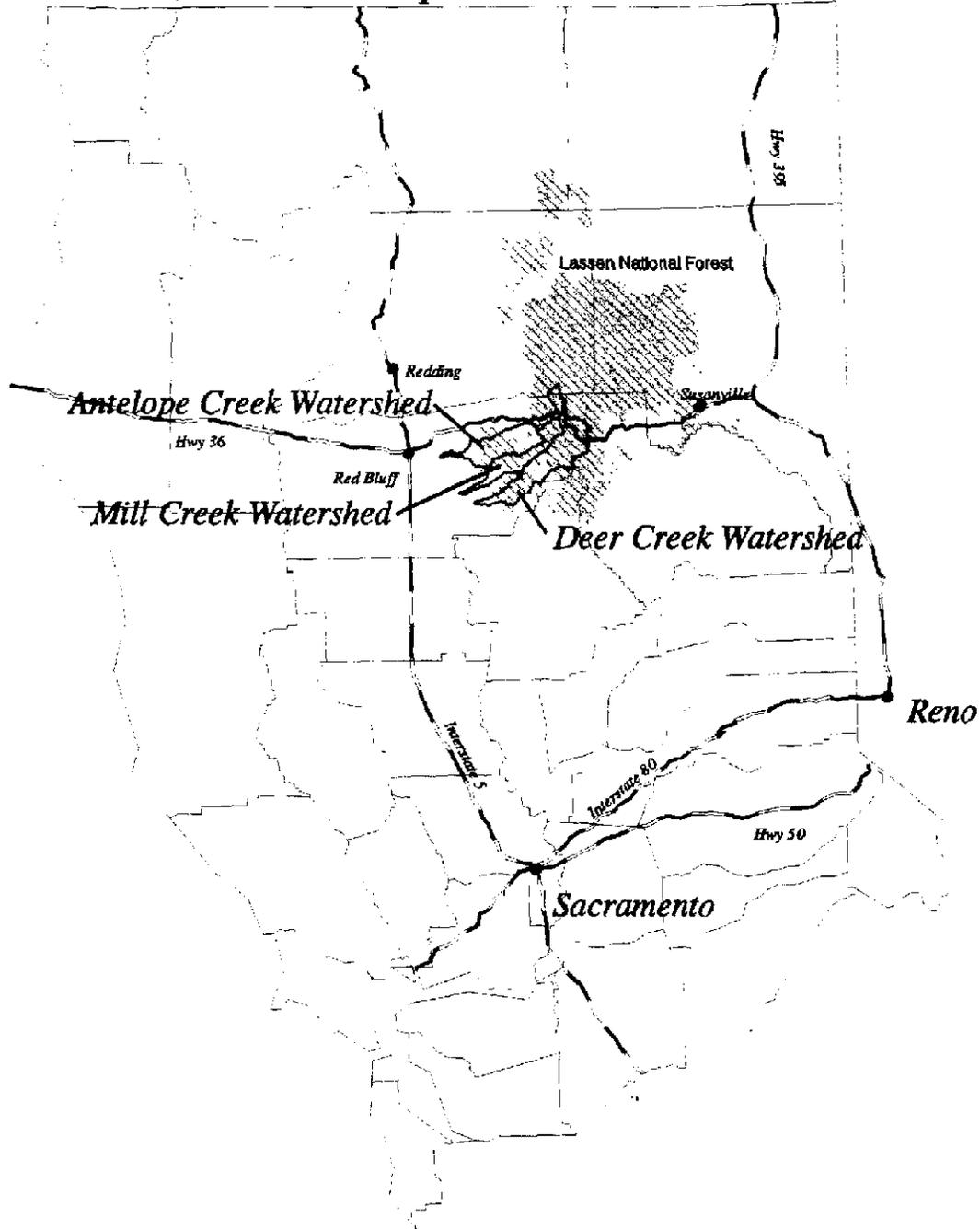


Table 1—Phase I budget costs for Lassen N.F. project in Deer, Mill, and Antelope Creek watersheds

Project phase and task	Direct labor hours	Direct salary and benefits	Overhead labor (gen'l admin & fee) @ 20%	Service contracts	Material and acquisition contracts	Misc. and other direct costs	Requested CALFED funding	Forest Service contribution	Total task cost
PHASE I (CY 1998-2000)									
Task 1: Implement erosion control measures at known sites									
1a. Site survey & design ¹	320	\$9,200	\$1,600			\$1,200	\$12,000	\$3,000	\$15,000
1b. NEPA process, ESA consultation	400	\$11,400	\$2,000			\$1,600	\$15,000	\$6,000	\$21,000
1c. Contract prep.	160	\$4,200	\$800				\$5,000	\$2,000	\$7,000
1d. Project implementation & contract admin.	160	\$4,700	\$12,800	\$60,000		\$2,500	\$80,000	\$8,000	\$88,000
1e. Monitoring, evaluation, and reporting	80	\$2,400	\$400			\$200	\$3,000	\$1,000	\$4,000
TASK 1 TOTAL:							\$115,000	\$20,000	\$135,000

1. Includes archaeological inventory and evaluation of proposed action sites.

Project phase and task	Direct labor hours	Direct salary and benefits	Overhead labor (gen'l admin & fee) @ 20%	Service contracts	Material and acquisition contracts	Misc. and other direct costs	Requested CALFED funding	Forest Service contribution	Total task cost
PHASE I (CY 1998-2000)									
Task 2: Watershed restoration planning									
2a. Update recent M.C.A. ² road/sediment study; expand to include Antelope Cr. watershed above LNF boundary	80	\$2,600	\$7,400	\$35,000	-	-	\$45,000	\$8,000	\$53,000
2b. Coordination with co-op road managers, private landowners, counties	480	\$14,100	\$2,400			\$1,500	\$18,000	\$10,000	\$28,000
2c. Update NFS road system database for project area and build GIS, Oracle files	320	\$9,400	\$1,600			\$1,000	\$12,000	\$2,000	\$14,000
2d. Prepare Road Management Plan for Deer, Mill, Antelope Cr. watersheds	520	\$14,900	\$2,600			\$1,500	\$19,000	\$19,000	\$38,000

2. Meadowbrook Conservation Associates

Attachment B-2

1-000377

1-000377

Project phase and task	Direct labor hours	Direct salary and benefits	Overhead labor (gen'l admin & fee) @ 20%	Service contracts	Material and acquisition contracts	Misc. and other direct costs	Requested CALFED funding	Forest Service contribution	Total task cost
PHASE I (CY 1998-2000)									
2e. Resource evaluations ³ , site survey, and design	4,250	\$122,250	\$21,250			\$12,500	\$156,000	\$10,000	\$166,000
TASK 2 TOTAL:							\$250,000	\$49,000	\$299,000
Task 3: Update land exchange assessments and identify acquisition opportunities	160	\$4,000	\$800			\$200	\$6,000		\$6,000
Phase I Total							CALFED total: \$371,000	Forest Service total \$69,000	Phase I total \$441,000

3. Includes archaeological inventory and evaluation of identified problem road sites or other disturbed areas.

Table 2—Schedule milestones for Lassen N.F. project in Deer, Mill, and Antelope Creek watershed

Project phase and task	Starting date	Completion date	Expected payment
PHASE I	1998	2000	Annually, after submission of a progress report, deliverables, and a bill for payment (each November 1).
Task 1: Implement erosion control measures at known sites	1998	2000	
1a. Site survey & design ⁴	1998	1998	
1b. NEPA process, ESA ⁵ consultation	1998	1999	
1c. Contract prep.	1999	1999	
1d. Project implementation & contract admin.	1999	2000	
1e. Monitoring, evaluation, and reporting	1998	2000	
Task 2: Watershed restoration planning	1998	2000	
2a. Update recent M.C.A. road/sediment study; expand to include Antelope Cr. watershed above LNF boundary	1998	1998	
2b. Coordination with co-op road managers, private landowners, counties	1998	2000	
2c. Update National Forest road system database for project area and build GIS, Oracle files	1998	1998	
2d. Prepare Road Management Plan for Deer, Mill, Antelope Cr. watersheds	1998	1999	
2e. Resource evaluations ⁶ , site survey, and design	1999	2000	

4. Includes archaeological inventory and evaluation of proposed action sites.

5. Endangered Species Act consultation would be primarily with National Marine Fisheries Service.

6. Includes archaeological inventory and evaluation of identified problem road sites or other disturbed areas.

Task 3: Update land exchange assessments and identify acquisition opportunities 1998 1999

PHASE II (Contingent on completion and funding of Phase I)	2001	2003	Annually, after submission of a progress report, deliverables, and a bill for payment (November 1 each year).
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<i>Prepare Phase II proposal, using information developed in Phase I, and submit to CALFED office</i>	1999	2000
Task 1: Conduct archaeological recovery, complete NEPA and ESA consultation for sites in road project job packages, responding to project levels funded by CALFED.	2001	2002
Task 2: Prepare construction contracts.	2002	2002
Task 3: Accomplish construction/ecosystem restoration projects; administer contracts.	2002	2003
Task 4: Acquire lands or easements. (If willing sellers are identified in 1998, a separate, new proposal for land acquisition would be submitted to CALFED.)	2002	2003
Task 5: Monitoring, evaluation, and reporting	2001	2003

NONDISCRIMINATION COMPLIANCE STATEMENT

COMPANY NAME

Lassen National Forest, Forest Service, USDA

The company named above (hereinafter referred to as "prospective contractor") hereby certifies, unless specifically exempted, compliance with Government Code Section 12990 (a-f) and California Code of Regulations, Title 2, Division 4, Chapter 5 in matters relating to reporting requirements and the development, implementation and maintenance of a Nondiscrimination Program. Prospective contractor agrees not to unlawfully discriminate, harass or allow harassment against any employee or applicant for employment because of sex, race, color, ancestry, religious creed, national origin, disability (including HIV and AIDS), medical condition (cancer), age, marital status, denial of family and medical care leave and denial of pregnancy disability leave.

CERTIFICATION

I, the official named below, hereby swear that I am duly authorized to legally bind the prospective contractor to the above described certification. I am fully aware that this certification, executed on the date and in the county below, is made under penalty of perjury under the laws of the State of California.

OFFICIAL'S NAME

Kent P. Connaughton

DATE EXECUTED

July 23, 1997

EXECUTED IN THE COUNTY OF

Lassen, State of California

PROSPECTIVE CONTRACTOR'S SIGNATURE

PROSPECTIVE CONTRACTOR'S TITLE

Forest Supervisor

PROSPECTIVE CONTRACTOR'S LEGAL BUSINESS NAME

KENT P. CONNAUGHTON

**NONCOLLUSION AFFIDAVIT TO BE EXECUTED BY
 BIDDER AND SUBMITTED WITH BID FOR PUBLIC WORKS**

STATE OF CALIFORNIA)
)
 COUNTY OF Lassen) ss

KENT P. CONNAUGHTON

(name)

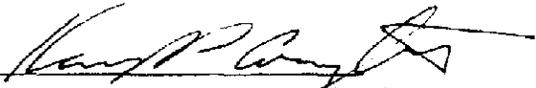
, being first duly sworn, deposes and

says that he or she is Forest Supervisor of
 (position title)

Lassen National Forest, Forest Service, USDA

(the bidder)

the party making the foregoing bid that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and, further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

DATED: July 23, 1997 By 
 (person signing for bidder)

Subscribed and sworn to before me on

Notary acknowledgment form attached.

 (Notary Public)

(Notarial Seal)

