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VEGETATION REDUCTION IN THE WATERSHEDS OF THE  
NORTH AND MIDDLE FORKS, AMERICAN RIVER

JUL 28 1997

## EXECUTIVE SUMMARY

**a. Applicant**

Placer County on behalf of the North and Middle Forks, American River CRMP Committee

**b. Project Description and Primary Biological/Ecological Objectives**

To reduce the risk of catastrophic fire in these watersheds, 59 miles of fuel break will be constructed and fuels reduced on 1948 acres of woodlands. The ecological objective of this effort will be to prevent massive, hot fires which both threaten public health and safety but also cause damage to soils and vegetation, resulting in excessive sediment delivery to stream channels and destruction of wildlife habitats, particularly adjacent to the riparian zone. The project will benefit the resident trout fishery and will generally enhance habitat diversity and complexity in the watershed. Maintaining water quality in the watershed will also ensure that downstream areas are not affected by high sediment loads and high turbidity.

**c. Approach/Tasks/Schedule**

Initially, 23 comprehensive water quality monitoring stations will be established, using staff from USFS and Placer County Health Department assisted by trained volunteers. Biological monitoring at all sites will also be conducted, using CDF&G's RBP approach. Sediment recruitment rates will also be measured.

The remainder of the work will consist of fuel reduction (prescribed burns, chipping, and mastication) and fuel break construction in 4 areas: Foresthill, Meadow Vista/Applegate, Sugar Pine, and Hell Hole. Following fuels reduction, monitoring will be conducted by agency staff and volunteers.

**d. Justification for Project and Funding by CALFED**

CALFED funding is justified primarily on the basis of the downstream impacts of catastrophic wildfires. High turbidity and excess sediment delivery via Folsom Reservoir adversely affect salmon spawning, hatchery operations, and water quality. Managed fuels reduction mimics the natural ecological process of the system, which involves relatively frequent burns of shrub vegetation as a result of lightning strikes. Human intervention has allowed high fuels loads to accumulate. As a result, the potential for wildfire, and associated water quality problems, has increased.

**e. Budget Costs and Third Party Impacts**

The project has significant cooperative cost-sharing from 8 federal, state and local agencies; several foundations, and numerous private entities. The CRMP requests funding in the amount of \$1,173,469.

**f. Applicant Qualifications**

The CRMP Committee has a number of highly qualified members willing to implement. These people include professional foresters, fire management professionals and water quality specialists.

Vegetation Reduction in the Watersheds of the  
North and Middle Forks, American River

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**g. Monitoring and Data Evaluation**

The project will serve as a demonstration project in that extensive water quality and biological community monitoring will be conducted, documenting the response of the watershed's aquatic communities to the program.

**h. Local Support/Coordination with other Programs/Compatibility with CALFED objectives.**

The applicant CRMP committee consists of over 50 representatives from federal, state and local government; local industry and business; and local community groups. There is broad and strong support for the project. Because it addresses an important water quality objective, which has implications for American River fisheries and water users, the project is compatible with CALFED objectives.

Vegetation Reduction in the Watersheds of the  
North and Middle Forks, American River

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1997 Category III  
Ecosystem Restoration Projects and Programs  
Proposal, Section II: Title Page

VEGETATION REDUCTION IN THE WATERSHEDS OF THE  
NORTH AND MIDDLE FORKS, AMERICAN RIVER

Submitted by Placer County  
on behalf of

The American River Watershed Comprehensive Resource Management Plan Committee

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State: 69-0930630

Participants and Collaborators:

Placer County  
American River Watershed CRMP committee

RFP Project Group III: Services  
Vegetation Reduction in the Watersheds of the  
North and Middle Forks, American River

Section II-1

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Vegetation Reduction in the Watersheds of the  
North and Middle Forks, American River

**III. PROJECT DESCRIPTION**

**a. Project Description and Approach**

This project consists of a combination of a series of vegetative reduction projects in the North and Middle Forks of the American River upstream of Folsom Reservoir. Fuel reduction will be accomplished through a combination of controlled burning, mechanical chipping and/or mastication. Project implementation will result in construction of 59 miles of fuel break, 1948 acres and over 100 private parcels, of varying sizes, of fuels reduction/wildlife habitat improvements, and inspection and potentially fuels reduction around 5200 housing units. In addition, water quality monitoring sites will be established throughout the two watersheds to provide pre-project and post project information on possible effects on water quality. Water quality monitoring will be accomplished with a combination of agency personnel and non-agency volunteers.

**b. Location and /or Geographic Boundaries of Project**

This project will be completed in Placer County within the North and Middle Forks of the American River upstream of Folsom Reservoir (see map Attachment 1).

**c. Expected Benefit(s)**

**Primary Stressors, Species, and/or Habitats Addressed:** Wildfires, Land Use, Alteration of Flows, Water Quality, Water Temperature, delta smelt, splittail, steelhead, chinook salmon, red and yellow legged frogs. Implementation of this project will reduce the risk of catastrophic wildfire in the North and Middle Fork American River watersheds. Catastrophic fires cause major damage to soils and vegetation in a watershed with a resultant increase in sediment delivery to stream channels, increased sediment deposition in downstream reservoirs, destruction of wildlife habitats, destruction of aquatic habitats and stream productivity and a general deterioration in downstream water quality and the resultant impact on aquatic species and municipal water quality. Using fuels management techniques to reduce the probability of a major wildfire will provide watershed level protection to Folsom Reservoir. Reduction in reservoir capacity due to increased sediment deposition results in a greater percentage of the reservoir that must be emptied to provide for flood management purposes and a reduction in the delivery of water to municipal and agricultural users that depend on Folsom Reservoir for water supply. Implementation of the project will increase habitat diversity for wildlife and reduce the potential for habitat degradation in stream channels, should steelhead be re-introduced into the watershed upstream of Folsom. Developing background and post project water quality information will also provide data on potential water quality problems, such as mine drainage, that may impact aquatic resources and drinking water quality. Implementation of this project will accelerate fuels reduction programs already underway by various State and Federal agencies.

**d. Background and Biological/Technical Justification**

The American River watershed upstream of Folsom has one of the worst historical records for catastrophic wildfire in the Central Sierra. Placer County (through the Placer County Resource Conservation District) has been actively involved with a variety of Federal, State, and Local agencies and private landowners to conduct fuel load reduction, pre-fire management planning, demonstration project monitoring and community education programs associated with fuels management. The North and Middle

Vegetation Reduction in the Watersheds of the  
North and Middle Forks, American River

Fork American River Coordinated Resource Management Plan (CRMP) group was established and has over 30 entities signatory to a memorandum of understanding that provides for a coordinated approach to resource management in the two watersheds. The CRMP group has asked Placer County to submit a funding request to Category III, concurrent with this proposal, to develop a formal CRMP document for these two watersheds. However, the project described in this proposal is a result of several years of informal planning and coordination and implementation by essentially the same members of the current CRMP group and is consistent with the types of projects that will be identified in the formal CRMP document.

Previous planning and implementation efforts by the County, USDA Forest Service, U.S. Bureau of Land Management, California Department of Forestry and Fire Protection, Natural Resources Conservation Service, Placer County Resource Conservation District, and others have identified excessive fuel buildup in the two watersheds as having potentially disastrous consequences to the natural resources in the area. Six miles of fuel breaks and 350 acres of fuels reduction have already been completed with all planning completed for all tasks identified in this proposal. In addition, the potential long term impacts to downstream areas (e.g. Folsom Reservoir) and resources (e.g. water quality, delta smelt, splittail, chinook salmon, and steelhead) have been deemed unacceptable. As a result of this determination, these agencies and others and private landowners have initiated actions designed to reduce fuel loads within the two watersheds. However, the fire danger is great and agency participation has been reduced by shrinking personnel and budgets. Implementation of this project presents an excellent opportunity (with relatively little additional funding) to make major strides in dramatically reducing the potential fire danger and long term damage to natural resources.

No one wants to see a major wildfire in a watershed like the North and Middle Fork American River. The consequences of a catastrophic wildfire in these watersheds would have monumental impacts to a variety of resources. The effects of major wildfires on soil structure and its ability to revegetate are well documented in the scientific literature. There is a voluminous literature on the dramatic increases in sediment production and water quality degradation following complete removal of vegetation. Increases in sediment production greatly reduce the useful reservoir life and contribute to a degradation in downstream water quality. Reduction in reservoir capacity has long term flood control, agricultural water supply, domestic drinking water supply, recreation, wildlife and fishery resource implications. In addition, degradation in water quality can cause smothering of fish eggs in gravels, including salmon and steelhead downstream of Nimbus Dam and adversely impact splittail spawning in the lower American River. The effects of increased sediment deposition in stream gravels is well documented with a resultant loss in fish production and overall stream productivity. In addition, other previously unknown effects may manifest themselves after a major fire. For example, heavy metals may become available from previously secure sites and find their way into the water of nearby streams.

Long term recovery after a major fire has absolutely devastating impacts on wildlife. The reduction in vegetative structure to an even aged early seral stage results in a complete loss of habitat diversity. Many wildlife species will suffer up to decades long displacements until the proper habitat diversity is re-established. Recreational opportunities will suffer since the viewshed is now monotypic and lacking aesthetic values.

Vegetation Reduction in the Watersheds of the  
North and Middle Forks, American River

Fire suppression activities can also have major impacts to the resources in the watersheds. Fire retardant drops results in nutrient enrichment of once pristine streams and direct mortality to aquatic life can occur if the retardant is dropped directly into the water. Construction of fire breaks, use of heavy equipment in suppression activities, and backfiring, and other suppression techniques will increase the disturbance to the soil resource and increase the amount of sediment delivered to the stream channels during storm events.

e. **Proposed Scope of Work**

The scope of the project includes a number of integrated elements within the tasks outlined below. Each task consists of a coordinated set of actions designed to complement accomplishment of the task in total. Task 1 is the water quality monitoring and improvement program and serves as the baseline and overall water quality monitoring activity for all other tasks.

**Task 1:** This task consists of establishing water quality monitoring sites at 23 locations in the in the North and Middle Fork American River watershed from the upper watershed downstream to the Placer County Line. Work will be accomplished by a combination of agency staff (Task Coordinators are Julie Tupper, USFS Hydrologist, Tahoe NF and Lynn Johnson, Senior Environmental Health Specialist, Placer County Health Department) and trained volunteers including other agency staff, high school science teachers, etc. Monitoring at all sites will include the Department of Fish and Game's Rapid Bioassessment Procedure for aquatic invertebrates, amphibian surveys, channel surveys to establish the physical configuration of the sites. More intensive data collection will occur at selected sites and include: suspended sediment, turbidity, bedload sampling, conductance, pH, dissolved oxygen, nitrogen, phosphorous, alkalinity, fecal coliform, and various ions and trace metals. Sampling frequency, depending on the site, will range from monthly to quarterly. This task will include several small demonstration projects designed to evaluate the sediment reductions as a result of restoration of old roadways and a severely disturbed recreation site and improvements in water quality by removing mine tailings using a volunteer labor force. In addition, all fuel reduction sites will be monitored to evaluate the effects on soil resources and water quality as a result of the reduction activities. During the course of the various monitoring programs, additional restoration projects and sites will be inventoried for inclusion in the formal CRMP document proposed for development as a separate Category III proposal. Information developed from Task 1 will be provided on a quarterly basis including fiscal status to CALFED. Information developed will be transferred to private land owners and interested publics through a series of workshops coordinated through the Natural Resources Conservation Service.

**Task 2:** Foresthill Project Area - This task consists of creation of 23 miles of shaded fuel break, fuels reduction/habitat improvement on 600 acres and numerous private parcels, of varying sizes, and fuels inspections and potential fuel reduction on 2400 housing units. These reductions will be accomplished by consortium of 8 state, federal, and local

Vegetation Reduction in the Watersheds of the  
North and Middle Forks, American River

agencies and local landowners using a combination of techniques including burning, chipping, and mastication. All individual actions are coordinated to achieve maximum integration.

**Task 3:** Meadow Vista/Applegate Project Area - This task consists of creation of 24 miles of shaded fuel break, fuels reduction/habitat improvement on numerous private parcels, of varying sizes, and fuels inspections and potential fuel reduction on 2800 housing units. These reductions will be accomplished by consortium of 3 state and federal agencies and local landowners using a combination of techniques including burning, chipping, and mastication. All individual actions are coordinated to achieve maximum integration.

**Task 4:** Sugar Pine Project Area - This task consists of fuels reduction/habitat improvement on 432 acres and numerous private parcels, of varying sizes. These reductions will be accomplished by consortium of 5 local and federal agencies and 2 foundations using a combination of techniques including burning, chipping, and mastication. All individual actions are coordinated to achieve maximum integration.

**Task 5:** Hell Hole Project Area - This task consists of fuels reduction/habitat improvement on 916 acres and construction of 12 miles of fuel break. These reductions will be accomplished using a combination of techniques including burning, chipping, and mastication. All individual actions are coordinated to achieve maximum integration.

**f. Monitoring and Data Evaluation**

The monitoring and data evaluation part of this project is an integral component of the project itself and is described in Task 1 above. The monitoring program will be conducted by a combination of agency staff and volunteers from a variety of backgrounds and is partially funded by a Clean Water Act grant. All fuel reduction and monitoring data will be placed on USDA Forest Service, California Department of Forestry or Natural Resources Conservation Service GIS data layers.

**g. Implementability**

All of the elements of this project are implementable in the short term. All planning is completed. Some environmental documentation needs to be completed, but is in various stages of preparation by the agencies. Local support is extremely high as evidenced by the support for the watershed CRMP Committee.

Vegetation Reduction in the Watersheds of the  
North and Middle Forks, American River

**IV. COSTS AND SCHEDULE TO IMPLEMENT PROPOSED PROJECT**

**a. Budget Costs**

This project directly and indirectly addresses a number of the stressors and species identified by CALPED as priorities for implementation. This project has considerable cooperative funding already in place and full implementation requires additional funding. Tasks 2-5 could be implemented through phasing and/or individual tasks could be phased. It is anticipated that unexpended funds from one task could be used to fully implement another task, but in no case would the total amount of work accomplished exceed that documented in this proposal without written authorization from the contracting officer. Task 1 must be funded up front in order to establish pre-project conditions.

Sources of cooperative funding include: Placer County Resource Conservation District, Natural Resources Conservation Service, USDA Forest Service, U.S. Bureau of Land Management, U.S. Bureau of Reclamation, California Department of Forestry and Fire Protection, California State Parks Department, National Wild Turkey Foundation, National Fish and Wildlife Foundation, Placer County Environmental Health Department, a Clean Water Act grant, and contributed labor from a plethora of private landowners and local volunteers.

**b. Schedule Milestones**

Task 1 will be implemented immediately after grant approval and required equipment can be procured. Tasks 2-5 will be implemented when weather, soil conditions, and fuel moisture levels are appropriate, but generally would be the fall-winter-early spring time period over a twenty-four month period.

**c. Third Party Impacts**

No third part impacts are anticipated. All activities on private land will be accomplished with and through willing landowner participation.

Vegetation Reduction in the Watersheds of the  
North and Middle Forks, American River

Table 1. Estimated Costs and Detailed Breakdown

Budget Sources and Components	TASK 1	TASK 2	TASK 3	TASK 4	TASK 5
Cooperative Funding Sources*	1,2,3	1,4,5,6	4,6	1,6,7	1
Direct Labor (Hours)		3,060	2,669	1,365	125
Direct Salary and Benefits		66,375	63,000	24,000	1,875
Service Contracts Already Completed		386,800	3,900	53,800	157,000
Overhead Labor (General Administration and Fee)	13,818	25,073	24,018	5,742	13,218
Service Contracts (New)	370,000	308,075	294,000	88,000	167,000
Material and Acquisition Contracts		17,000	17,000		
Miscellaneous and other Direct Costs	9,240	71,740	68,690	37,115	10,265
Total Project Cost	393,058	875,063	470,608	208,657	349,358
Cooperative Funding Available	195,000	515,675	126,350	126,350	159,900
Category III Funding Requested by Task	198,058	359,388	344,258	82,307	189,458
<b>TOTAL CATEGORY III FUNDING REQUESTED</b>			<b>\$1,173,469</b>		

\* Cooperative Funding Sources Include:

- 1 - USDA Forest Service
- 2 - Placer County Environmental Health Department
- 3 - Clean Water Act Grant to Placer County and Placer County Resource Conservation District
- 4 - California Department of Forestry and Fire Protection
- 5 - U.S. Bureau of Reclamation
- 6 - USDA Natural Resources Conservation Service
- 7 - U.S. Bureau of Land Management

Vegetation Reduction in the Watersheds of the  
North and Middle Forks, American River

**V. APPLICANT QUALIFICATIONS**

Short biographical sketches of the people involved in implementation of this proposal are included below:

**Kelly Keenan** - Kelly is a registered Professional Forester with 15 years of experience. He is currently the Vegetation Management Program Coordinator with the Nevada Yuba Placer Unit of the California department of Forestry and Fire Protection. He is a graduate of California Polytechnic State University, San Luis Obispo with a major in Natural Resources Management; concentration in Forest Resources.

**Paula Nelson** - District Fire Management Officer, Tahoe National Forest. Paula has an AA degree from American River College and continuing education in natural sciences, fire science and management. Paula started her career in 1974 and has worked in fire management at the district, forest, and regional levels on 3 forests and 2 regions. Her primary experience is in fuels management, fire prevention, suppression and management. Paula has planned large scale fuel treatments for watershed improvement and protection in the Santa Ynez (city of Santa Barbara) and Carpenteria public watersheds.

**Jay Hastings** - Jay is the Fire Management Officer with the Bureau of Land Management's Folsom Office. Jay has 30 years of fire experience in the Bureau and with the USDA Forest Service.

**Julie Tupper** - Julie is the Forest Hydrologist with the Tahoe N.F. Julie has a B S in biology from Seattle Pacific University and graduate work in Environmental Engineering and Water Resource Management at Humboldt State University and New Mexico Institute of Mining and Technology. She has worked as a hydrologist and groundwater modeler for an environmental consulting firm. She has 13 years as a forest hydrologist and watershed program manager on two national forests.

**Lynn Johnson** - Lynn is a Senior Environmental Health Officer with the Placer County Environmental Health Department. He has over 20 years experience in the environmental health field specializing in water related environmental issues.

**Richard Gresham** - Manager, Placer County Resource Conservation District. Rich has been the manager of the Placer County Resource Conservation District since 1978. He has a Master Degree in Urban and Regional Planning from Fresno State. The Soil and Water conservation Society and the International Erosion Control Association has granted him the use of the professional designation "Certified Professional in Erosion and Sediment Control".

**Clifford Heitz** - District Conservationist, Natural Resources Conservation Service, Auburn Field Office. Cliff has a B.S. degree in Forest Management from the University of Nevada Reno. He has 27 years of experience working with the Forest Service (Fire Crew Foreman) and with NRCS. He has worked in six locations in California. His areas of expertise are erosion control, fuels management, forestry, range, irrigation, and PL - 566 flood control projects.

**Richard A. Johnson** - Foresthill District Ranger, Tahoe NF. Richard has a B.S. in Forestry from Colorado State University. Rich has been District Ranger for 13 years. His previous Forest Service experience was primarily in forest management at the District and Regional level. He started his career with the Forest Service in 1967.

**Sean Griffin** - Fire Captain Specialist, California Department of Forestry and Fire Protection. Sean has a Forest Technician Certificate from Sierra Community College and a B.S. in Forest Management from Utah State University. He has 11 years experience in Fire Services and is currently assigned as the Nevada Yuba

Vegetation Reduction in the Watersheds of the  
North and Middle Forks, American River

Placer Unit Prefire Planning Engineer. He is responsible for identifying areas within the unit that have a high potential to experience a costly and damaging fire. He then works with the community to develop projects to reduce that potential.

Monica Berreman - District Fisheries Biologist, Tahoe NF. Monica has a B.S. in Fishery Biology from the University of California, Davis. She began her Forest Service career in 1992 and has worked at the district and forest level on two national forests. She is actively involved with fisheries restoration, habitat surveys and environmental education.

Harry Hickey - Science Instructor, Placer High School since 1986. B.A. and M.A. in Biology from Occidental College. Harry's work experience includes marine fisheries works at NSF Research and Marine Biological Consultants, and was a consultant for the San Francisco Sanitation district to complete an ocean outfall sit selection survey. Since 1969 Harry has been a teacher; first at a summer teacher workshop at Occidental College, then on the Vantuna Research Vessel from 1968-77, at Middletown Unified School 1973-78, Upper Lake High School 1978-86 and now at Placer High School. Harry has a lifetime California Secondary School credential for Life Sciences as well as a California Community College credential for Life Sciences, Art and Photography. He is the author of several professional papers and has won numerous teaching awards.

Carol-Anne Rutenbergs - NRCS Soil Conservationist. B.A. in Geography with minor in Geology, CSU-Northridge. Soil Conservationist for USDA-NRCS from 1990 to present. Assisted in development and implementation of resource conservation plans as they applied to fuel load reduction, forest management, pasture and rangeland seeding/management, watershed conservation planning. Provided assistance to landowners with water quality sampling, testing and monitoring in watershed project area.

Mark White - Resource Mgmt. Planner for Placer Co. RCD. Mark has a B.A. in Geography, CSU-Sacramento, 1984. Worked as a Soil conservation Technician 1978-1984. Converted to Soil Conservationist 1984-1990. From 1990 to the present has worked as a Resource Mgmt. Planner for the Placer Co. RCD.

Matt Bailey - Representative to the Mother Lode Chapter of the Sierra Club. Course work at Cal Poly. Graduate the Federal Maritime Academy, licensed engineer. Matt has 29 years of experience as a "troubleshooter" for PG&E powerhouses and worked on loan with PCWA as the Middle Fork of the American power/water project was brought on line. Matt has served on the Land Uses Advisory Committee and the Grazing Review Committee for BLM. He is President of the Placer County Historical Society, Organized the North Fork (American River) Wild River Council, has served on two Grand Juries and is a past president and the current secretary of the Dutch Flat Mutual Water Company. He has served on the Placer Co. Solid Waste Task Force and the County Fish and Game Commission, on the conservation committee of the Mother Lode Chapter and he's past President of the Placer County sub-group.

Eric Peach - Conservation Chair of Protect the American River Canyon (PARC). B.S. in Anthropology with a minor in Art, CSUS-Sacramento. Eric has over 20 years of experience with PARC developing programs for outreach, information sharing and in developing partnerships. He is an outing coordinator and writes the PARC newsletter. He was a co-author and helped publish the American River Guidebook. He has helped complete bioassessment work on the American River and has developed an extensive slide database for interpretative programs.

Vegetation Reduction in the Watersheds of the  
North and Middle Forks, American River

**VI. COMPLIANCE WITH STANDARD TERMS AND CONDITIONS**

The terms and conditions specified are agreeable and will be complied with by the applicant. Attached is the Nondiscrimination Compliance Statement for Placer County.

Section VI-1

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NONDISCRIMINATION COMPLIANCE STATEMENT

COMPANY NAME

PLACER COUNTY

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

GLORIA COUTTS

DATE EXECUTED

JULY 25, 1997

EXECUTED IN THE COUNTY OF  
PLACER

PROSPECTIVE CONTRACTOR'S SIGNATURE

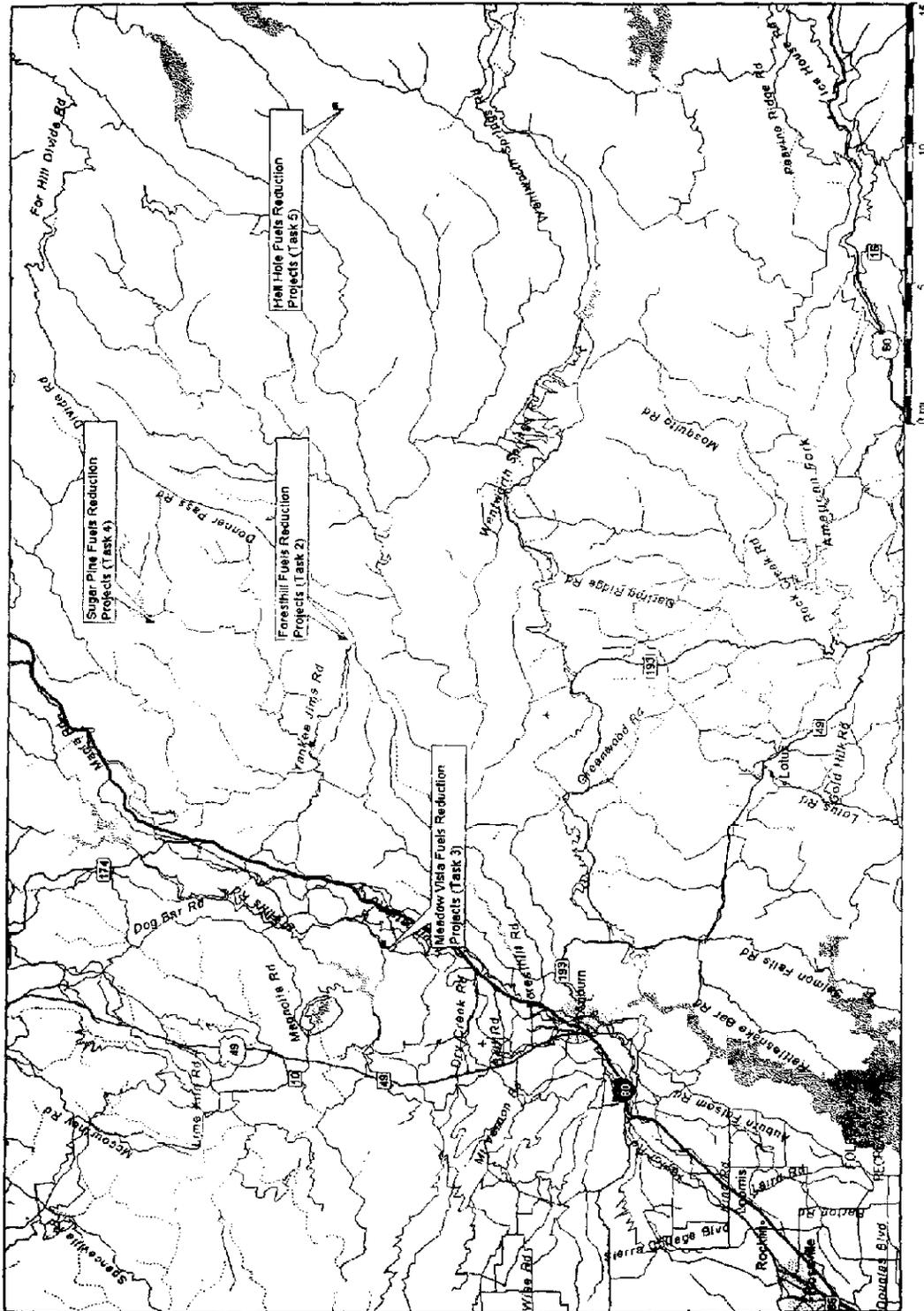
*Gloria Coutts*

PROSPECTIVE CONTRACTOR'S TITLE

ASSISTANT COUNTY EXECUTIVE OFFICER

PROSPECTIVE CONTRACTOR'S LEGAL BUSINESS NAME

COUNTY OF PLACER



AMERICAN RIVER WATERSHED

## Streets Plus

American River Watershed CRMP  
Proposed Fuels Reduction Projects

ATTACHMENT 1

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