

EXECUTIVE SUMMARY**Butte Creek Riparian Protection and Restoration Project**

JUNE 28 PM 3:27

Name of Applicant and Principal Investigators

Research Foundation, California State University, Chico

Donald Holtgrieve, Allen Harthorn, Department of Geography and Planning, CSU Chico
95929-0425, 916-898-5780, 916-898-6781 FAX, dholtgrieve@facultypo.csuchico.edu**Project Description and Primary Biological/Ecological Objectives**

The Research Foundation of California State University, Chico (CSUC), and the Butte Creek Watershed Conservancy (BCWC) are engaged in a long-range watershed management planning effort (Butte Creek Watershed Project, BCWP) for Butte Creek in cooperation with landowners, water users, agricultural interests, conservation groups and state and federal agencies under the supervision of the Department of Geography and Planning at CSUC. Protection of critical habitat for the endangered spring run Chinook salmon and steelhead trout populations of Butte Creek is a high-priority for all the agencies working on anadromous fisheries.

This area would provide an opportunity to develop and demonstrate methods of channel and floodplain management that would help to stabilize the sediment and bedload input from the remains of the gravel mining operation. Development of a natural floodplain could have tremendous implications for riparian plant species that would help to cool the stream, filter urban runoff, capture large woody debris and increase the water storage and groundwater recharge capabilities of lower Butte Creek. This proposal is for matching funds to acquire real property from a willing landowner, John McAmis, in the critical riparian corridor adjacent to spawning and holding pools in Butte Creek. CSUC and the BCWC are seeking partners to fund the purchase and transfer to CDFG, of a 80+acre parcel with approximately 4000 feet of creek frontage. NFWF has committed \$135,000 toward this project and USFWS is considering funding if available from FY 97 and otherwise FY 98. A request is being developed by CDFG for the Wildlife Conservation Board as well. This cooperative effort will establish a management partnership between CSUC and CDFG that will simplify their efforts to manage their many properties and expand educational programs associated with riparian areas.

Approach/Tasks/Schedule

This proposal is for matching funds to acquire real property (Task 1) in the critical riparian corridor adjacent to spawning and holding pools in Butte Creek. CSUC and the BCWC are seeking partners to fund purchase of a 80+acre parcel with approximately 4000 feet of creek frontage. This proposal is for \$160,376 toward acquisition and \$25,752 for the development of a management plan for the Ecological Preserve (Task 2) and incorporation of the site into the Butte Creek Education Project (Task 3). The management plan will be developed through the Recreation Department at CSUC with training from other non-profit groups with experience in managing land trusts. A Property Analysis Record (PAR) will be completed in cooperation with the Center for Natural Lands Management. This analysis will provide a series of management options including a cost analysis, that will be reviewed publically. The Butte Creek Education Project is coordinating restoration efforts and will be responsible for development of a education strategy that will focus on riparian plantings and bank stabilization to recover the quality of the

shaded riverine and aquatic habitats. Much of the work will be conducted by students and volunteers from local organizations interested in supporting these efforts. This cooperative project is being crafted to protect, restore and enhance critical habitat areas with willing landowners. Long term management of this area will be coordinated by CSUC and the BCWC with assistance from organizations currently working on Butte Creek, such as the Center for Natural Lands Management.

Acquisition of Property.....Jan 1998
 PAR Completed and Management Plan Developed.....Dec. 1997
 Restoration & Education.....Spring & Fall 1998

Justification for Project Funding by CALFED

This project meet a number of CALFEd objectives such as protection of riparian corridors and development of riparian and floodplain management practices that protect, restore and enhance priority habitats for priority species, specifically shaded riverine and aquatic habitats for spring run Chinook salmon and steelhead trout.

Budget Costs and Third Party Impacts

Budget Costs	Task 1 Property Acquisition	\$160,376
	Task 2 Management Plan	\$7,876
	Task 3 Education and Restoration	\$17,876

There will be very limited third party impacts from this project. The main concern would be the loss of local tax revenue by Butte County. This would amount to approximately \$4000 per year. Other concerns that would need mitigation are the impacts of the recreational users. These concerns will be addressed as part of the management plan for the Butte Creek Ecological Preserve and in the WMS development.

Applicant Qualifications

The protection and enhancement of local creeks and watersheds by local community groups is a high priority at California State University, Chico. Toward this end, faculty and resources, conservation groups, public agencies, and others as needed are utilized. As a part of its community service mission, it is the policy of the University Research Foundation to organize teams for special projects and to provide the kinds of services required for this project.

Monitoring and Data Evaluation

The monitoring and evaluation of the project will be conducted by the BCWP staff, Butte Creek Education Project and the Recreation Department at CSUC. Development of the management plan, integration with education programs and initiation of restoration projects will be closely monitored to ensure timely completion of activities and maximum outreach to target audiences; ie., students and recreational users.

Local Support/Coordination with other Programs/Compatibility with CALFED Objectives

NFWF, CDFG, USFWS the BCWC, recognizing the value and compatibility of this project with CALFED and other anadromous fish objectives have agreed to contribute and support the RPRP.

Butte Creek Riparian Protection and Restoration Project

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Chico CA 95929-0425, 916-898-5780, 916-898-6781FAX,
dholtgrieve@facultypo.csuchico.edu

Type of organization and tax status

Auxiliary organization of CSU, Chico as provided for in the Calif. Education Code, Title 5.
Tax status: Non-profit educational 501(c)3

Tax identification number

68-0386518

Technical and Financial Contact person

Donald Holtgrieve, Jeff Wright, Research Foundation, California State University, Chico, Chico
CA 95929-0870, 916-898-5700, 898-6804FAX, jwright@oavax.csuchico.edu

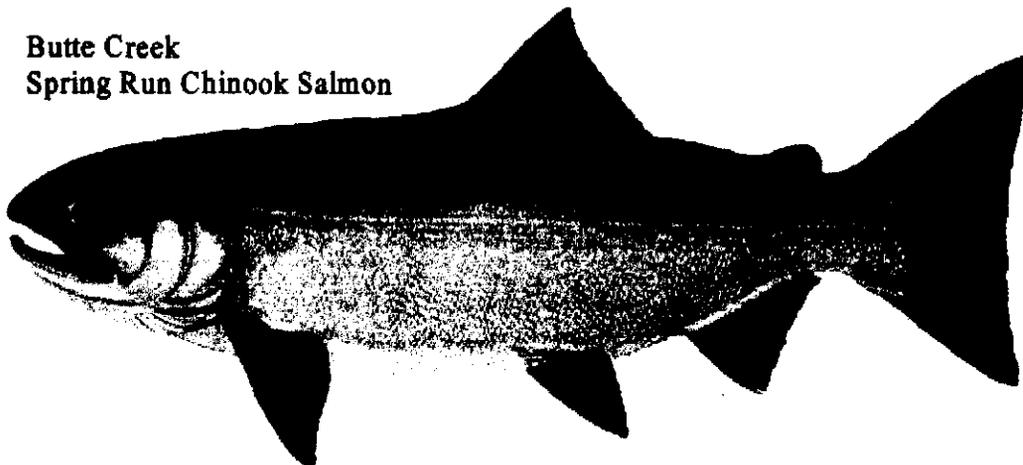
Participants/Collaborators in Implementation

NFWF, USFWS, CDF&G, CSU Chico, Butte Creek Education Project, Butte Creek Watershed
Conservancy

RFP project group type

Acquisition and other services (education)

**Butte Creek
Spring Run Chinook Salmon**



Project Description and Approach

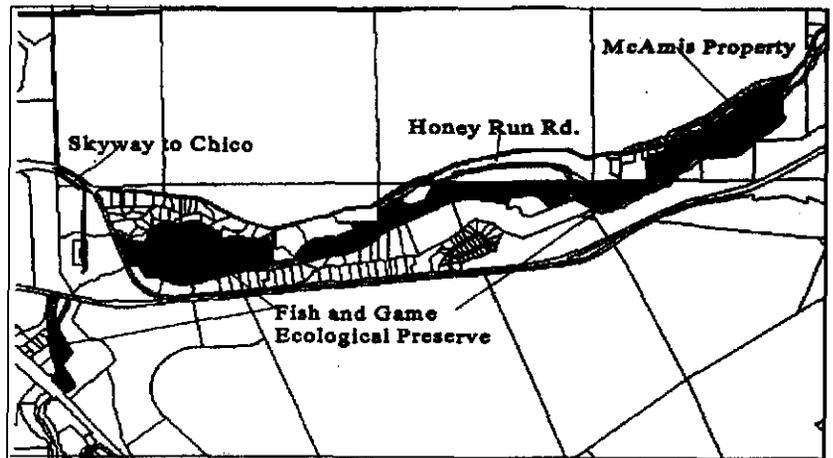
The Research Foundation of California State University, Chico (CSUC), and the Butte Creek Watershed Conservancy (BCWC) are engaged in a long-range watershed management planning effort (Butte Creek Watershed Project, BCWP) for Butte Creek in cooperation with landowners, water users, agricultural interests, conservation groups and state and federal agencies under the supervision of the Department of Geography and Planning at CSUC. Protection of critical habitat for the endangered spring run Chinook salmon and steelhead trout populations of Butte Creek is a high-priority for all the agencies working on anadromous fisheries. Acquisition of property to protect, in perpetuity, a section of the creek with little undeveloped riparian corridor land, is timely and essential. Protection of the corridor is a high priority in this sensitive migration, holding and spawning area. With the acquisition of the McAmis property (Task 1) the Butte Creek Riparian Protection and Restoration Project (RPRP) would protect an additional 4000 foot section of lower Butte Creek contiguous with the California Department of Fish and Game (CDFG) Ecological Preserve which extends for approximately 2.5 miles downstream. CDFG would hold title to the property and a management plan would be developed by CSUC for the entire preserve (Task 2) The McAmis land and other areas throughout the lower watershed have been severely impacted by the effects of gold mining and the extraction of millions of yards of sand and gravel. Development pressures have led to the expansion of rural home sites throughout the area and this property has been subdivided into four exclusive lots with building sites, leach fields and a common well. The RPRP would serve to protect one of the last large tracts of riparian corridor and foster other innovative solutions to riparian habitat management in a highly disturbed area. Future research, laboratory studies, K-12 education and restoration would be coordinated with agencies, local non-profit groups and CSUC (Task 3).

Much of the development in Butte Creek is in the riparian corridor and in many areas in or very near the FEMA 100 year flood zone. Further development in this area will only exacerbate the plight of fish and wildlife species which depend on the riparian areas. Butte Creek has been the focus of numerous studies and several large scale fish passage resolutions. There has been very little attention paid to problems associated with riparian corridor protection and management, bank stabilization or management of sediment input and bedload movement. This area would provide an opportunity to develop and demonstrate methods of channel and floodplain management that would help to stabilize the sediment and bedload input from the remains of the gravel mining operation. Development of a natural floodplain could have tremendous implications for riparian plant species that would help to cool the stream, filter urban runoff, capture large woody debris and increase the water storage and groundwater recharge capabilities of lower Butte Creek. This proposal is for matching funds to acquire real property from a willing landowner, John McAmis, in the critical riparian corridor adjacent to spawning and holding pools in Butte Creek. CSUC and the BCWC are seeking partners to fund the purchase and transfer to CDFG, of a 80+acre parcel with approximately 4000 feet of creek frontage. The National Fish and Wildlife Foundation (NFWF) has committed \$135,000 toward this project and U.S. Fish and Wildlife Service (USFWS) is considering funding if available from FY 97 and otherwise FY 98. A request is being developed by CDFG for the Wildlife Conservation Board as well. This request is for approximately twenty-five per cent (25%) of the purchase price and

transfer cost or, \$160,376; \$7,876 for the development of a management plan; and \$17,786 for restoration and education coordinated by the Butte Creek Education Program. This cooperative effort will establish a management partnership between CSUC and CDFG that will simplify their efforts to manage their many properties and expand educational programs associated with riparian areas.

Location and or geographic boundaries of project

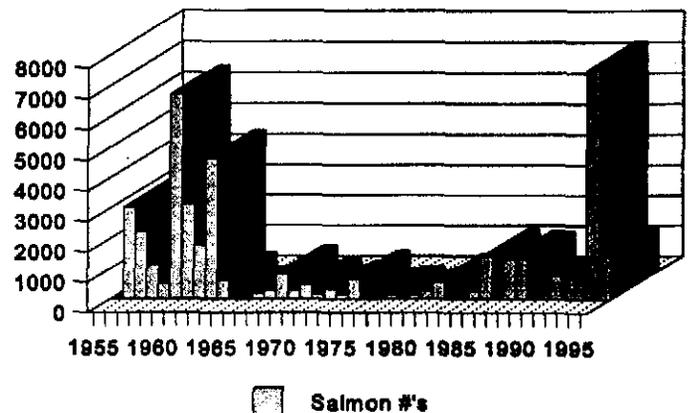
The project is located on lower Butte Creek near the mouth of the canyon near Chico. The property is off of Honey Run Rd. approximately 2.5 miles from the Skyway and is surrounded by residential housing, the CDF&G Ecological Preserve and undeveloped large parcels, mostly 20 acres or larger.



Expected benefits

Butte Creek is an important resource that supports several priority species and habitats. Spring run Chinook salmon and steelhead trout and their associated aquatic and shaded riverine aquatic habitats have been in decline for many years. It contains 20+ miles of critical spawning and holding habitat for both species which have been recommended for listing under the California and Federal Endangered Species Acts respectively. The key to sustaining and restoring healthy populations of these fish is to protect and restore the habitats upon which they depend. Of the 20+ miles of holding and spawning habitat, less than 5 miles have any type of protection from development. This particular piece has been planned for development several times beginning with a 72 unit condominium project in the late 1970's. This project went all the way to a county referendum where it was turned down. Subsequent development plans have ranged from a sixteen lot split with very significant destruction of the riparian forest to a final approved subdivision of four exclusive lots with extensive roads and development. The CDFG has determined that this property has extreme value in terms of providing wildlife habitat and protection of critical shaded riverine and aquatic resources. Other public benefits of this proposed acquisition include dispersion of recreational impacts at other key access points that are critical to the salmon. Just a few hundred yards upstream on BLM land, is one of the only places

Butte Creek Spring Run Salmon Populations



The CDFG has determined that this property has extreme value in terms of providing wildlife habitat and protection of critical shaded riverine and aquatic resources. Other public benefits of this proposed acquisition include dispersion of recreational impacts at other key access points that are critical to the salmon. Just a few hundred yards upstream on BLM land, is one of the only places

on the lower section of Butte Creek with public access. Management options such as conservation easements and acquisition of BLM land are being pursued for these areas that currently receive all the high intensity recreational use. The McAmis parcel, as part of the CDFG Ecological Preserve, would be managed to bear some of the recreational use focused upstream while improving the quality of both areas for anadromous fish and for recreational users. Informational and educational materials on Butte Creek and protection of it's resources and a limited parking area could be made available. K-12 school and University field trips would be accommodated on a scheduled basis.

Additional public benefit would be gained by the participation of community volunteers in cooperation with agency and academic professionals in the restoring and replanting of riparian vegetation on the parcel. Grassroots involvement will help to develop a stronger sense of stewardship for these areas. In addition, the area around the CDFG Ecological Preserve is densely developed with residential homes which contributes to increased runoff. Expanding the buffer between these areas and the stream would provide increased protection from urban runoff and more opportunities for innovative flood plain management to increase water infiltration and reduce sedimentation and large scale bedload movement.

Background and biological/technical justification

Butte Creek is one of the most significant tributaries of the Sacramento River that provides important habitat to many aquatic and terrestrial species including the spring run Chinook salmon, fall run Chinook salmon and steelhead trout. It is the largest of the four remaining tributaries that support Spring Run, which is scheduled for listing under the California Endangered Species Act. Butte Creek has a long history of use since the arrival of Euro-American and other groups in search of fortunes in California's gold fields. Hydraulic mining has scarred hillsides and left large expanses of dredger tailings instream and offstream throughout the lower part of the canyon. Canals built for water conveyance were quickly converted to other uses, primarily hydroelectricity, after the gold boom ended. More recent appropriations of water for domestic water supplies on the Paradise ridge and agriculture in the valley portions have all but used up the existing flows and most of the imported flows from the West Branch of the Feather River (part of the hydroelectric system). Lack of adjudication in the lower part of the valley portion, unregulated diversion and drainage systems, connection to other inputs of Feather River water and seasonal diversion of the entire creek through the Sutter Bypass make Butte Creek one of the most complicated watersheds in the state, especially for anadromous fish.

The modern day rapid development along the ridge in the town of Paradise and surrounding areas, development in the lower canyon and increasing recreational pressures throughout the year are negatively affecting water quality and quantity issues. Grazing of livestock has always been a part of the Butte Creek history both in the winter/spring range in the valley and foothills and the summer range in the upper meadows and forest. Stream bank degradation and water quality concerns have only been recently addressed. Timber harvest is also an important economic element in the watershed and has the potential to affect the water quality, particularly

from harvest access roads. Water inputs and outputs for rice culture, waterfowl clubs and refuges complete the list of stressors on the riverine system.

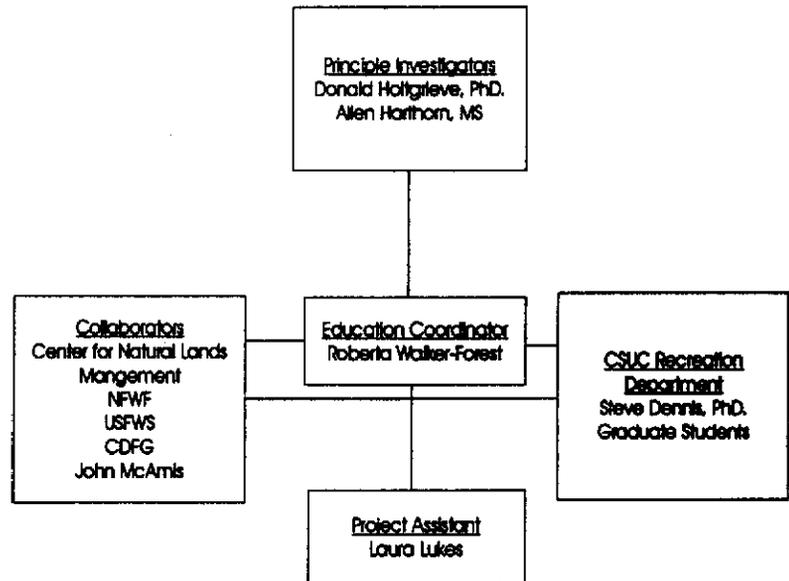
The Butte Creek Watershed is a priority project for the U.S. Fish and Wildlife Service, CALFED, the Bureau of Reclamation and California Department of Fish and Game. Recognized as one of the last remaining natal streams of the spring run Chinook salmon, Butte Creek has been the focus of numerous studies and proposed projects. USFWS identified 37 actions and evaluations in the draft Anadromous Fish Restoration Plan with a high priority for the watershed due to its size and potential for producing genetically diverse races of spring run Chinook, fall run Chinook salmon and steelhead trout. California Department of Fish and Game identified 29 action items in their report, Status of Actions to Restore Central Valley Spring-Run Chinook Salmon. Both have identified the development of a watershed management plan, creation of riparian buffers, land use plans and education on best management practices as high priorities. They also indicate the need to develop public involvement programs such as citizen driven conservancies to facilitate planning and guarantee acceptance and permanence for the actions. The National Fish and Wildlife Foundation through the Bureau of Reclamation, USFWS, CALFED and CDF&G have committed to this priority by funding a scoping study and development of a Watershed Management Strategy (WMS) and supporting other efforts such as this project. The Butte Creek Watershed Project in the Department of Geography and Planning began in September 1996.

The proposed purchase of the McAmis property on Butte Creek will provide long-term protection of some of the most critical spawning and holding habitat for salmon and steelhead trout. Significant landowner driven efforts are underway to protect, restore and enhance habitat for spring run Chinook salmon and steelhead trout in an attempt to pro-actively address their needs. The current condition of the creek along this parcel is not favorable to these anadromous fish as the banks have been degraded by natural erosion of dredger tailings and land grading for residential development of the land. Restoration of riparian vegetation along a corridor several hundred feet back from the creek is desirable in the near future to maintain and improve wetlands, water quality and soil conditions favorable to the shade plants that protect the fish habitats in the creek. The protection of these habitats on Butte Creek is essential to the recovery of salmon populations in California because viable and natural spawning populations of wild spring run Chinook salmon exist nowhere else in California save Big Chico Creek, Mill and Deer Creeks, to the north of Butte Creek. The loss of river, creek, and adjacent riparian habitat has contributed to the decline of salmon populations in California. These habitats have been impacted by development and transportation improvements that remove shade trees, contribute sediment to creeks and rivers, disrupt river and creek beds and bottoms, and by the increased human pressures facilitated by improved access to the rivers and creeks that are home to salmon and trout.

Proposed Scope of Work

This proposal is for matching funds to acquire real property (Task 1) in the critical riparian corridor adjacent to spawning and holding pools in Butte Creek. CSUC and the BCWC are seeking partners to fund purchase of a 80+acre parcel with approximately 4000 feet of creek

frontage. This proposal is for \$160,376 toward acquisition and \$25,752 for the development of a management plan for the Ecological Preserve (Task 2) and incorporation of the site into the Butte Creek Education Project (Task 3). The management plan will be developed through the Recreation Department at CSUC with training from other non-profit groups with experience in managing land trusts. A Property Analysis Record (PAR) will be completed in cooperation with the Center for Natural Lands Management. This analysis will provide a series of management options including a cost analysis, that will be reviewed publically. The Butte Creek Education Project is coordinating restoration efforts and will be responsible for development of a education strategy that will focus on riparian plantings and bank stabilization to recover the quality of the shaded riverine and aquatic habitats. Much of the work will be conducted by students and volunteers from local organizations interested in supporting these efforts. This cooperative project is being crafted to protect, restore and enhance critical habitat areas with willing landowners. Long term management of this area will be coordinated by CSUC and the BCWC with assistance from some or all of the organizations currently working on Butte Creek, The Nature Conservancy, Center for Natural Lands Management and Parks and Preserves.



Monitoring and Data evaluation

The monitoring and evaluation of the project will be conducted by the BCWP staff, Butte Creek Education Project and the Recreation Department at CSUC. Development of the management plan, integration with education programs and initiation of restoration projects will be closely monitored to ensure timely completion of activities and maximum outreach to target audiences; ie., students and recreational users.

Implementability

The McAmis property acquisition for CDFG, development of a management plan for the CDFG Ecological Preserve and the incorporation of the preserve in the Butte Creek Education Program are all in progress and immediately implementable.

Costs and Schedule to implement proposed project

Budget Costs

Project Phase and task	Direct labor hours	Direct Salaries and benefits	Overhead labor (general, admin and fee)	Service contracts	Materials and acquisition contracts	Miscellaneous and other direct costs	Total costs
Task 1	189	3827	5549	333	150000	667	160376
Task 2	189	3827	1799	1583		667	7876
Task 3	189	3827	1799	1583	10,000	667	17876

Scheduled Milestones

Acquisition of Property.....Jan 1998
 PAR Completed and Management Plan Developed.....Dec. 1997
 Restoration & Education.....Spring & Fall 1998

Third Party Impacts

There will be very limited third party impacts from this project. The main concern would be the loss of local tax revenue by Butte County. This would amount to approximately \$4000 per year. Other concerns that would need mitigation are the impacts of the recreational users. These concerns will be addressed as part of the management plan for the Butte Creek Ecological Preserve and in the WMS development.

Applicant Qualifications

CALIFORNIA STATE UNIVERSITY, CHICO Statement of Capabilities for Watershed Research and Planning

The protection and enhancement of local creeks and watersheds by local community groups is a high priority at California State University, Chico. Toward this end, faculty and resources, conservation groups, public agencies, and others as needed are utilized. As a part of its community service mission, it is the policy of the University Research Foundation to organize teams for special projects and to provide the kinds of services described below.

Project Administration: The Research Foundation, as part of its regular operation, searches for government and foundation funding opportunities, makes contact with those organizations and provides assistance in grant proposal writing. Foundation personnel then administer the grant funds, provide auditing, and bookkeeping functions, and insure compliance with all government regulations and procedures.

Faculty: The primary mission of our faculty is teaching our own students. However, with funds generated from grants and contracts, our faculty often undertake research, planning, and other community based projects. Faculty who have particular expertise in watershed research and planning are listed on attached pages. Faculty can also be of service by supervising interns and conducting class projects that relate to the mission of the watershed protection groups (see below). Environmental education faculty are also available to assist local school teachers in creating and teaching curricula about our region's diverse natural environments.

Department, Institutes, Centers and Laboratories: Special units of the university are often organized and called upon to address specific community and regional needs. Those related to watershed protection are listed on the attached pages. In addition to the more obvious administrative units, such as the Department of Geography and Planning, there are others that could be called on to fill specific needs, such as the Department of Communication Design and Journalism, which can produce informational material such as newsletters, videos, and press releases. The Geographic Information Center (GIC) has the capability of collecting and compiling public domain maps through the internet as well as producing GIS maps on request.

Internships and Class Projects: Other possible resources are community based internships supervised by several of the departments and faculty listed on the attachments. In the past, interns have gained personal knowledge and skills while providing community service in environmental monitoring, report writing, field mapping, GIS mapping, interviewing informants, documentary research, classroom teaching assistance, plan design, and questionnaire design and administration. Such win-win arrangements can also be established for small groups of students, and sometimes an entire class may be organized around a particular issue or need, e.g., Geography 224 Planning Studio.

Project Personnel:

Director: **Dr. Donald Holtgrieve**, Professor of Geography and Planning, CSUC. He teaches courses in water resources and environmental planning. Dr. Holtgrieve has been the recipient of many grants and awards, with a particular focus on the environment, specifically water quality and watershed management. He has extensive experience in directing grants awarded by both State and Federal Agencies, as well as official certification in Land Use, Transportation, and Wetlands Planning. Dr. Holtgrieve has supervised over 200 projects over the last 25 years. As Project Director, Dr. Holtgrieve will provide assurance that adequate resources are provided to the project, and will be the first line of communication between CAL FED Category III and CSU Chico.

Manager: **Allen Harthorn, MS**, has many years of experience managing projects for CSU Chico, as well as being an avid fisherman. His personal involvement with and love for the Butte Creek Watershed led him to start the Butte Creek Watershed Conservancy. Mr. Harthorn was personally responsible for obtaining the initial USF&WS grant to develop a Management Strategy for the Butte Creek Watershed. As Project Manager, Mr. Harthorn will continue his public outreach efforts, as well as continuing to develop his extensive and exhaustive list of professional, agency and personal contacts for the Watershed.

Education Coordinator:

Roberta Walker-Forest, M.A., has over ten years experience working in the education community. She has worked for many years in a variety of educational settings ranging from teaching environmental education at outdoor schools to being an environmental interpretive ranger for federal natural resource agencies. Recently, she has been director and assistant director in helping to establish several education enrichment programs in Northern California, including the Butte Creek Watershed Education Program. Roberta has a vibrant enthusiasm for teaching about the environment as well as a deep devotion to helping young people develop a positive relationship with themselves as well as the world around them.

Office Manager:

Laura Lukes has managed project offices for the Research Foundation since April of 1994. She has excellent organizational, managerial, and fiscal accounting skills, as well as knowledge of and experience with fiscal regulations for state and federal grant accounting. Ms. Lukes is responsible for all internal accounting for grants and contracts, document management, and the overall smooth running of the particulars and paperwork for the project.

Faculty:

Dr. Eugenie Rovai, trained as a resource geographer and cartographer, is an associate professor of Geography and Planning at CSU, Chico. She has completed work on numerous resource-related grants and mapping project. For local watershed management projects, Dr. Rovai has served as Geographic Information Systems (GIS) technical staff - faculty liaison and upon GIS Advisory Committees. Currently, Dr. Rovai is in charge of the development of a GIS for the Butte Creek Watershed Project and the quality of its cartographic output. Dr. Rovai is a strong proponent of instream water use and grassroots watershed management.

Other Faculty and General Area of Expertise:

Dr. Lee Altier - Riparian habitat, riparian restoration

Dr. Steven Dennis - Scenic and recreation resources

Dr. Jerold Behnke - Hydrology and water quality

Dr. Paul Maslin - Ecology

Dr. Ron Hodgson - Fire history and management

Dr. Guy King - Fluvial Geomorphology

Dr. Susan Hardwick - Historical uses and cultural resources

NONDISCRIMINATION COMPLIANCE STATEMENT

REV. 11/95 (REV. 3-91) PAC

COMPANY NAME

CSU, Chico Research Foundation

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

Jeff Wright

DATE EXECUTED

7/25/97

EXECUTED IN THE COUNTY OF

Butte

PROSPECTIVE CONTRACTOR'S SIGNATURE

PROSPECTIVE CONTRACTOR'S TITLE

Director, Office of Sponsored Programs

PROSPECTIVE CONTRACTOR'S LEGAL BUSINESS NAME

CSU, Chico Research Foundation