

COVER SHEET (PAGE 1 of 2)

May 1998 CALFED ECOSYSTEM RESTORATION PROPOSAL SOLICITATION

Proposal Title: Butte Creek Riparian Restoration Demonstration
Applicant Name: Dr. Donald Holtgrieve, Department of Geography and Planning
Mailing Address: CSU, Chico, Chico, CA 95929-0425
Telephone: 530-898-5780
Fax: 530-898-6781

Amount of funding requested: \$176,348 for 2 years

Indicate the topic for which you are applying (check only one box). Note that this is an important decision: see page ___ of the Proposal Solicitation Package for more information.

- Fish Passage Assessment
Fish Passage Improvements
X Floodplain and Habitat Restoration
Gravel Restoration
Fish Harvest
Species Life Studies
Watershed Planning/Implementation
Education
Fish Screen Evaluations - Alternatives and Biological Priorities

Indicate the geographic area of your proposal (check only one box):

- Sacramento River Mainstream
Delta
Suisun Marsh and Bay
San Joaquin River Mainstream
Landscape (entire Bay-Delta watershed)
X Sacramento Tributary: Butte Creek
East Side Delta Tributary:
San Joaquin Tributary:
Other:
North Bay:

Indicate the primary species which the proposal address (check no more than two boxes):

- San Joaquin and East Side Delta tributaries fall-run chinook salmon
Winter-run chinook salmon
Late-fall run chinook salmon
Delta smelt
Splittail
Green Sturgeon
X Spring-run Chinook salmon
Fall-run chinook salmon
Longfin smelt
X Steelhead trout
Striped bass

COVER SHEET (PAGE 2 of 2)

May 1998 CALFED ECOSYSTEM RESTORATION PROPOSAL SOLICITATION

Indicate the type of applicant (check only one box):

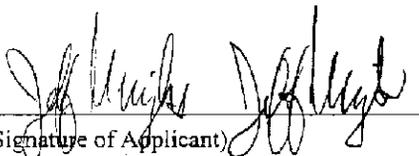
- | | |
|----------------------------------------------------------|------------------------------------------------|
| <input type="checkbox"/> State agency | <input type="checkbox"/> Federal agency |
| <input type="checkbox"/> Public/Non-profit joint venture | <input checked="" type="checkbox"/> Non-profit |
| <input type="checkbox"/> Local government/district | <input type="checkbox"/> Private party |
| <input checked="" type="checkbox"/> University | <input type="checkbox"/> Other: _____ |

Indicate the type of project (check only one box):

- | | |
|-------------------------------------|----------------------------------------------------|
| <input type="checkbox"/> Planning | <input checked="" type="checkbox"/> Implementation |
| <input type="checkbox"/> Monitoring | <input type="checkbox"/> Education |
| <input type="checkbox"/> Research | |

By signing below, the applicant declares the following:

- (1) the truthfulness of all representations in their proposal;
- (2) the individual signing the form is entitled to submit the application on behalf of the applicant (if applicant is an entity or organization); and
- (3) the person submitting the application has read and understood the conflict of interest and confidentiality discussion in the PSP (Section II.K) and waives any and all rights to privacy and confidentiality of the proposal on behalf of the applicant, to the extent as provided in the Section.


(Signature of Applicant)



BUTTE CREEK
WATERSHED CONSERVANCY
PO BOX 1611 • CHICO, CA 95927-1611
916 893-5399

HAND DELIVERY

July 2, 1998

Dr. Donald Holtgrieve
Research Foundation, Project Director
Department of Geography and Planning
California State University, Chico
Chico, California 95929-0425

Dear Don:

The Butte Creek Watershed Conservancy ("BCWC") Executive Committee acknowledges receipt of the following two grant proposals for the *CALFED Proposal Solicitation Package* deadline of July 2, 1998: 1) Butte Creek Riparian Restoration Project, 2) The Butte Creek Watershed Educational Workshop and Field Tour Series. Due to short notice and personal schedules, the Executive Committee has been unable to fully review the proposals. These proposals are extremely important and it may be necessary for the full Board of Directors to discuss the proposals' merits. In the interest of time, however, the Executive Committee acknowledges that the proposals will be submitted on July 2nd, 1998 for CALFED review. When the full Board of Directors has had an opportunity to review the proposals, BCWC input will be forthcoming. If you have any questions please feel free to contact me at (530) 893-5399.

FOR THE EXECUTIVE COMMITTEE

Brendan J. Vieg
Watershed Coordinator
Butte Creek Watershed Conservancy

cc: Jeff Wright
Director, Office of Sponsored Programs
CSUC Research Foundation

I - 0 0 9 9 5 8

I-009958

II. EXECUTIVE SUMMARY

A. PROJECT TITLE/APPLICANT NAME

Butte Creek Riparian Restoration Demonstration

B. PROJECT DESCRIPTION/PRIMARY BIOLOGICAL AND ECOLOGICAL OBJECTIVES

This project would eliminate unauthorized vehicle access to the California Department of Fish and Game (CDFG) Virgin Valley Ecological Preserve (VVU) and develop a educational and recreational area that will restore and protect this valuable riparian corridor area. Vehicles have contributed to the loss of vegetation which was exacerbated by the 1997 flood. Local CDFG wardens have issued numerous citations for illegal fishing activities, parking and littering in this area. The loss of shaded riverine aquatic habitat (SRA), both near shore cottonwood riparian and up bank valley oak riparian, has left the area with unstable banks and bedload in the floodplain, degrading instream fish habitat and increasing solar radiational heating of the creek.

C. APPROACH/TASKS/SCHEDULES

An electric gate would be installed so that only authorized vehicles are allowed access. Recreational users could walk to the creek which would eliminate vehicles and most of the camping and littering problems. Approximately 6000 feet of trails will be designed and maintained by Parks and Preserves (PNP) with oversight from the Butte Trails Council (BTC). Physically disabled visitors would also be accommodated by developing at least one trail with a hard surface for wheel chair access. All areas damaged by mining or vehicles will be restored. The vegetation restoration would be done by the Parks and Preserves Foundation and volunteers from other groups with purchased plant materials from the California State University, Chico (CSU Chico) Farm. Volunteer efforts will be coordinated with the Butte Creek Education Project (BCEP). BCEP will develop materials for educational signs for the VVU trails, and a brochure would be made available at a kiosk near the entrance. Project signs will be placed on both sides of the Hwy. 99 bridge over Butte Creek to demonstrate the partnerships working to protect, restore and enhance the watershed. Portable restrooms and trash receptacles would be made available. An ongoing maintenance program will be managed by volunteer help under the direction of PNP, BTC and CSU Chico, Butte Creek Watershed Conservancy and others.

Task 1

- 1a. Install electric gate, trash receptacle and portable restrooms.
- 2a. Map existing conditions, survey existing biological resources and plan future condition
- 3a. Develop educational signs and project sign

Task 2

- 2a. Establish riparian restoration and trails
- 3a. Educational and project sign placement

Task 3

- 3a. Maintain site in perpetuity
- 3b. Monitor revegetation, water quality, wildlife populations

Schedule

The project will begin immediately upon contract signing expected in the Spring of 1999. The electric gate will be installed immediately. Plant materials will be purchased and volunteer planting days will be arranged. Signs will be produced and installed before the summer recreation season. Trail development and restoration planting will be started as soon as weather

soil conditions permit. Completion of the restoration planting and trails will take approximately six months from the initiation of the project. Monitoring and replacement will continue for one year. Total project timeline is eighteen months from contract signing provided work can begin before summer 1999.

D. Justification for Project and Funding by CALFED

The project is in the Butte Basin Ecological Zone along Butte Creek. The property is owned by CDFG but funds for restoration or maintenance are not available from that agency. This approximately one mile section of creek is a valuable migration, holding, and spawning area for Spring and Fall-run Chinook salmon and Steelhead. It is an area that has been degraded by historic mining, recreational users, and flooding. This project would provide an excellent opportunity to demonstrate state of the art stream habitat restoration that would be highly visible in the Northern Sacramento Valley. Recreational users would have the opportunity to explore the restoration project and learn about the value of these resources to the stream, the fish, and, ultimately, ourselves.

E. Budget Costs and Third Party Impacts

New Gate	\$ 8,000
Revegetation and Trails	30,000
Educational signs and materials	4,000
Mapping and consultants	10,000
Project management (salaries and benefits)	19,805
Operating expenses and travel	2,600
Indirect (42% S&W/18.5% S&W)	4,717
Stewardship endowment	100,000
Total Cost	179,121

Owners of adjacent properties, Baldwin Construction Company, and Durham Mutual Irrigation District, have agreed to participate in this project. No negative third party impacts would be realized from this project.

F. Applicant Qualifications

The Research Foundation at CSU, Chico has been involved with watershed management and riparian restoration through the Colleges of Natural Sciences, Behavioral and Social Sciences, and Agriculture for many years. Students work on various aspects of these types of projects under the supervision of faculty. Parks and Preserves Foundation has been involved in management of conservation lands and restoration projects for eight years. Responsibilities for the project will be shared by CSU Chico and PnP.

G. Monitoring and Data Evaluation

Monitoring and evaluation for the proposed project includes:

- Annual analysis of the revegetation to gauge success and benefit
- Semi-annual bioassessment monitoring of the benthic invertebrate of the creek
- Regular water quality monitoring to be conducted by the BCEP
- Semi-annual wildlife inventories to be conducted by CSUC
- Data will be shared with CDFG and made available via the internet

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

This project has been widely supported by local groups and educational institutions. Community volunteers will complete much of the work. It will be coordinated with other restoration programs occurring both upstream and downstream of the site.

III. Title Page**Butte Creek Riparian Restoration Demonstration****Applicant and Principal Investigators**Research Foundation

Donald Holtgrieve, Ph.D., CSU Chico,
Allen Harthorn, MS. Director,

Parks and Preserve Foundation

Jim Saake, General Manager,

Project PartnersCSU ChicoButte Creek Education ProjectButte Trails CouncilButte Creek Watershed Conservancy**Type of organization and tax status**

Research Foundation, Auxiliary organization of CSU, Chico as provided for in the California Education Code, Title 5.

Tax Status: Non-profit educational corporation, 501 (c)3

Parks and Preserve Foundation, Land Trust

Tax Status: Non-profit corporation 501 (c)3

Tax identification number

Research Foundation, CSU Chico 68-0386518

Parks and Preserves Foundation 68-0216430

Technical and Financial Contact persons

Donald Holtgrieve, Ph.D., Project Director, 530-898-5780, 530-898-6781 FAX
dholtgrieve@oavax.csuchico.edu

Allen Harthorn, Project Director, 530-898-4651, 530-898-6781 FAX
aharthorn@oavax.csuchico.edu

Jim Saake, General Manager, Parks and Preserves Foundation 530-343-6852 Phone & FAX

Jeff Wright, Director, Research Foundation, 530-898-5700, 530-898-6804 FAX

Scott Gailey, CPA 530-343-6565

Participants/Collaborators in Implementation

Parks and Preserve Foundation, CSU Chico, Butte Creek Education Project, Butte Trails Council, Butte Creek Watershed Conservancy, NFWF, USFWS, EPA, CALFED, CDF&G, and others.

RFP project group type

Floodplain Management and Habitat Restoration

Butte Creek Watershed Council



IV. Project Description

A. Project Description and Approach

Lack of an effective gate at the end of Southgate Road in south Chico has allowed drivers of unauthorized vehicles to enter the California Department of Fish and Game (CDFG) Virgin Valley Ecological Preserve (VVU), over-run natural vegetation, illegally camp, and created a safety hazard for authorized gravel trucks. Vehicles have contributed to the loss of vegetation which was exacerbated by the 1997 flood. Local CDFG wardens have issued numerous citations for illegal fishing activities, parking and littering in this area. The loss of shaded riverine aquatic habitat (SRA), both near shore cottonwood riparian and up bank valley oak riparian, has left the area with unstable banks and bedload in the creek, degrading instream anadromous fish habitat and increasing solar radiational heating of the creek.

An electric gate would be installed at the entrance to the property so that only authorized vehicles allowed access. Recreational users could walk to the creek eliminating most of the problems with camping and littering. Trails with educational signs describing the various resources of the VVU will be designed and maintained by Parks and Preserves (PNP) with oversight from the Butte Trails Council (BTC). Physically disabled visitors would also be accommodated by developing at least one trail with a hard surface for wheel chair access. All areas damaged by mining or vehicles will be restored. The vegetation restoration would be done by the Parks and Preserves Foundation and volunteers from other groups with plant materials purchased from the California State University, Chico Farm. Volunteer efforts will be coordinated with the Butte Creek Education Project (BCEP). This effort, supported by a broad range of local educators, has initiated the process to establish firm commitments to watershed health with educational programs and restoration actions. BCEP will develop materials for educational signs for the VVU, and a brochure to be made available at a kiosk near the entrance. Project signs will be placed on both sides of the Hwy. 99 bridge over Butte Creek to demonstrate the partnerships working to protect, restore and enhance the watershed. Portable restrooms and trash receptacles would be made available. An ongoing maintenance program will be managed by volunteer help under the direction of PNP, BTC and CSU Chico.

B. Proposed Scope of Work

Task 1

The first priority is to purchase and install a new electric gate at the end of Southgate road to limit access to the VVU Ecological Preserve to authorized vehicles only. This will prevent the further destruction of the area from unauthorized vehicles. Mapping will be completed to assess trail location, sign placement, and revegetation efforts. Plant materials will be acquired from the CSU Chico University Farm. Educational and project signs will be developed through the BCEP. Wildlife surveys will be conducted by volunteers.

Task 2

The restoration actions will begin immediately. Parks and Preserves will coordinate the revegetation project with students, community volunteers, Americorp members and the Butte Creek Education Project. Several trails through the area will be established with oversight by the

Butte Trails Council. At least one of the trails will be a hard surface trail to allow handicap access to the creek bank area. Educational signs will be strategically placed to enhance the learning experience for the recreational users. Project signs will be placed along Highway 99.

Task 3

Long term maintenance will begin and monitoring of revegetation success will allow for replacement of plants as needed. Rapid bioassessments will be conducted by high school students and their teachers. Samples will have Quality Assurance/Quality Control done by registered laboratories. Water quality data will also be collected on an ongoing basis.

C. Location and or Geographic Boundaries of Project

The location of the project is the Butte Creek Watershed. The specific geographic boundaries are Butte Creek between Highway 99 in Chico, and upstream to private property owned by Baldwin Contracting Inc., Butte County, CA. The length of the stream segment is approximately 1.0 mile.

Description of Site: Approximately fifty acres of property on both sides of the creek are owned by the CDFG. It was acquired in 1986 and classified as an ecological preserve in order to preserve streamside habitat for migrating salmon. Part of the property includes constructed levees which are used by the Baldwin Contracting Company for access, by easement, to Baldwin's concrete plant and equipment yard. Durham Mutual Water Company also has an easement to their dam and diversion which is slated for replacement with a new fish ladder and screens through a '97

CALFED grant. Another old service road transects the property. The site is heavily used by swimmers in summer and miners in other seasons. There is no maintenance of the property by the CDFG due to budgetary constraints. Much of the area was negatively impacted by flood flows in 1997 and vegetation has yet to recover.



D. Expected Benefits

1. The CDFG has a management plan for the area but it is unable to pay for basic remediation of the site. This project will assist CDFG in their efforts to manage this property. The endowment will provide a perpetual management fund.
2. The partnership between Parks and Preserves Foundation, CSU Chico and Butte Trails Council, is willing and able to manage the project.
3. Valuable SRA habitat for spring run Chinook salmon and steelhead trout migration and holding, and fall run Chinook salmon spawning will be restored.
3. Recreation sites will be retained with limited access, reducing unregulated recreation.
4. Educational signs and materials will be developed by the BCEP and installed in a kiosk where brochures will be provided.

E. Background and Biological/Technical Justification

Butte Creek has a long history of use since the arrival of Euro-American and other ethnic groups in search of fortunes in California's gold fields. Hydraulic mining has scarred hillsides and left large expanses of dredger tailings throughout the lower part of the canyon section. Subsequent gravel mining operations extracted material and left many unstable degraded areas upstream of the VVU. Canals built for water conveyance were quickly converted to hydroelectricity after the gold boom ended. Grazing of livestock has always been a part of the Butte Creek history. More recent appropriations of water in the valley portions of the creek 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 modern day hydroelectric system). Lack of adjudication in the lower part of the valley portion, unregulated diversion and drainage systems, connection to more Feather River water and seasonal diversion of the entire creek through the Sutter Bypass makes Butte Creek one of the most complicated watersheds in the State. In addition, the modern day development of domestic water supplies and rapid development along the ridge in the town of Paradise and surrounding areas, development in the lower canyon, and heavy recreational pressures are negatively affecting water quality and quantity.

Human disturbance of the primary habitats of the priority species classified by CALFED is one of the greatest concerns. Many of these disturbances require engineering and relatively permanent construction works. However, to change public attitudes toward human interaction with the habitats of other species is not quite so concrete a solution. Many of the habitats were rich with resources that helped fuel the development of the area. Recognizing the spiraling decline in habitats and their related species it is very important to change perceptions and fuel the enthusiasm to restore and enhance these resources. Restoration of SRA habitat in this area will be highly visible and visited frequently by the public. This will complement the existing public and K-12 education program that are integrated with the local conservation groups projects. This type of coordination between the public and the agencies that are promoting the efforts is critical to the long term success of CALFED and other initiatives. This project will further the governmental efforts supported by the U.S. Environmental Protection Agency, U.S. Fish and Wildlife Service, National Fish and Wildlife Foundation, CDFG and others to provide a balance between humans and the primary habitats and priority species classifications developed by CALFED.

F. Monitoring and Data Evaluation

This project will be continually and consistently monitoring and evaluated on the progress.

Monitoring and evaluation for the proposed project includes:

- Annual analysis of the revegetation to gauge success and benefit
- Semi-annual bioassessment monitoring of the benthic invertebrate of the creek
- Regular water quality monitoring will be conducted by the BCEP
- Semi-annual wildlife inventories will be conducted
- Data will be shared with CDFG and made available via the internet

G. Implementability

This project is ready to go. The land is owned by CDFG and all parties are prepared to begin immediately in the restoration, educational sign development and long-term stewardship of the VVU project area.

V. Costs and Schedule to implement proposed project

New gate	\$	8,000
Revegetation		30,000
Education signs and materials		4,000
Mapping and consultants		10,000
Project management(salaries & benefits)		17,671
Operating expenses & travel		2,600
Indirect (18% of salaries)		2,412
Stewardship endowment		100,000
Total Cost:	\$	174,683

Schedule

The project will begin immediately upon contract signing expected in the Spring of 1999. The electric gate will be installed immediately. Plant materials will be purchased and volunteer planting days will be arranged. Signs will be produced and installed before the summer recreation season. Trail development and restoration planting will be started as soon as weather and soil conditions permit. Completion of the restoration planting and trails will take approximately 6 months from initiation of the project. Monitoring and replacement will continue for 1 year. Total project time line is 18 months from contract signing provided work can begin before summer 1999.

Budget Costs

Project Phase and task	Direct labor hours	Direct Salaries and benefits	Overhead labor 18% of salaries	Service contracts	Materials and acquisition contracts	Miscellaneous and other direct costs (endowment)	Total costs
Task 1	86	2,140	293	10,000	8,000	1,000	21433
Task 2	466	11,603	1585	2,000	28,000	1,000	44188
Task 3	158	3,934	538	2,000	2,000	100,600	109072
Total	710	17677	2416	14000	38000	102500	174693

Scheduled Milestones:**Task 1**

- Install electric gate
- Develop educational signs and project sign

- Wildlife survey

Task 2

- Establish riparian restoration and trails
- Educational and project sign placement

Task 3

- Maintain site in perpetuity
- Monitor revegetation,
- Monitor water quality
- Monitor wildlife populations

Third Party Impacts

No negative third party impacts would be realized from this project.

Applicant Qualifications

Parks and Preserve Foundation

Parks and Preserves Foundation is a non-profit 501 (c) (3) organization founded in 1990 to:

- To help preserve land for new parks, nature preserves, agriculture, historical, scenic or special biological value
- To promote tree planting and reforestation
- To promote natural resource conservation and education

Among the projects of PNP was the establishment and operation of a native tree nursery and education program through which to date, 10,000 trees have been sold, donated or planted out. The organization is the lead on a very successful Greenway Demonstration project on Highway 99 in Chico with Caltrans, the City of Chico and the Work Training Center where over 1,000 native and/or drought tolerant trees and shrubs are being established. PNP has sponsored the "March for Parks" program which raised over \$10,000 for the benefit of Bidwell Park. In recent years the focus has shifted to land conservation projects and programs including:

- Operation and ownership of the Arthur Ashley Williams Riparian Reserve near Lake Oroville
- Monitoring of six riparian, watershed and habitat easements
- The establishment of a "Conservation Easement Outreach Program"
- The establishment of focused programs and projects, Northern California Land Trust, Chico Community Land Trust and the Butte Creek Conservation Project.
- Appraisal and establishment of a wetlands mitigation bank in Solano County

Project Personnel:

Directors:

Donald Holtgrieve, Ph.D., Professor of Geography and Planning, CSU Chico. Dr. Holtgrieve teaches courses in water resources and environmental planning. He 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 being certified in Land Use, Transportation and Wetlands planning. Dr. Holtgrieve has supervised over 200 projects over the last 25 years. As Project Director, he will provide assurances that adequate resources are provided to the project, and will be the first line of communication between CALFED and CSU Chico.

Allen Harthorn, MS, has eight years of experience managing agricultural and natural resource training and education projects for CSU Chico, as well as being an avid salmon and steelhead fisherman. As a concerned landowner, his personal involvement with the Butte Creek Watershed led him to start the Butte Creek Watershed Conservancy. Mr. Harthorn was directly responsible for obtaining the complex mix of grants to develop an Existing Conditions Report, a Watershed Management Strategy, the Butte Creek Education Project, a roads survey of erosion sources, a fluvial geomorphology study of the lower creek and acquire a 90 acre parcel in the floodplain that was approved for a subdivision. As Project Director, Mr. Harthorn will oversee all phases of the

project to ensure timely completion of tasks and integration with participants and volunteers, and will direct public outreach efforts.

Manager: Jim Saake, General Manager, Parks and Preserves Foundation

Jim Saake is the principal of Saake's Real Property Services, offering real estate consulting and appraisal services. His specialty is rural, timber, agriculture, recreation propertyies and wetlands mitigation banks. Appraisals include life estates and conservaation easements in addition to standard fee simple interest. Clients include, U.S. Forest Service, Natural Resource Conservation Service, Bureau of Land Management, The Nature Conservancy, American Land Conservancy and the Trust for Public Land. Jim has a BA in Political Science from CSU Hayward and has

Office Manager: Chrissie Weston, Office management, correspondence

Fiscal Manager: Scott Gailey, CPA

Jeff Wright, Research Foundation, CSU Chico,

Butte Creek Education Project

The Butte Creek Education Project was established under grants from national Fish and Wildlife Foundation, U.S. Fish and Wildlife Service And CALFED. Supplemental funding is expected from CALFED and EPA 319h. The project will be working cooperatively with the community, watershed groups and agencies, through the local school districts, to ensure a healthy, sustainable future for the Butte Creek Watershed.

Butte Trails Council

The Butte Trails Council was formed in 1985 to administer the development of trails in the Bureau of Land Management's Forks of the Butte Recreation area. A mitigation fund was established from the Forks of the Butte hydroelectricity project. Butte Trails Council entered into a cooperative agreement with BLM to develop and manage the trails in this area. The group has contributed tremendously to the coordination of volunteers and California Conservation Corp workers to develop and maintain 8 miles of trails on Butte Creek. They will provide oversight to the development of approximately 6000 linear feet of trails for this project.

**APPLICATION FOR
FEDERAL ASSISTANCE**

1. TYPE OF SUBMISSION <i>Application</i> <input type="checkbox"/> Construction <input checked="" type="checkbox"/> Non-Construction		2. DATE SUBMITTED July 2, 1998		Applicant Identifier	
Preapplication <input type="checkbox"/> Construction <input checked="" type="checkbox"/> Non-Construction		3. DATE RECEIVED BY STATE		State Applicant Identifier	
		4. DATE RECEIVED BY FEDERAL AGENCY		Federal Identifier	
5. APPLICANT INFORMATION					
Legal Name: The CSU, Chico Research Foundation			Organizational Unit		
Address (give city, county, state, and zip code): Kendall Hall, Room 111 CSU, Chico Chico, CA 95929-0870			Name and telephone number of person to be contacted on matters involving this application (give area code): Technical: Kristin Cooper Carter (530) 898-5026 Budgetary: Jeff Wright (530) 898-5700 Contractual: Virginia Sturm (530) 898-4044		
6. EMPLOYER IDENTIFICATION NUMBER (EIN): 6 8 - 0 3 8 6 5 1 8			7. TYPE OF APPLICANT: (enter appropriate letter in box) <input type="checkbox"/>		
8. TYPE OF APPLICATION: <input checked="" type="checkbox"/> New <input type="checkbox"/> Continuation <input type="checkbox"/> Revision If Revision, enter appropriate letter(s) in box(es): <input type="checkbox"/> <input type="checkbox"/> A. Increase Award B. Decrease Award C. Increase Duration D. Decrease Duration Other (Specify):			A. State H. Independent School Dist. B. County I. State Controlled Institution of Higher Learning C. Municipal J. Private University D. Township K. Indian Tribe E. Interstate L. Individual F. Intermunicipal M. Profit Organization G. Special District N. Other (Specify) _____		
			9. NAME OF FEDERAL AGENCY: CALFED Bay-Delta Programs		
10. CATALOG OF FEDERAL DOMESTIC ASSISTANCE NUMBER: TITLE: <input type="text"/> * <input type="text"/>			11. DESCRIPTIVE TITLE OF APPLICANT'S PROJECT: Butte Creek Riparian Restoration Demonstration		
12. AREAS AFFECTED BY PROJECT (cities, counties, states, etc.): Butte County					
13. PROPOSED PROJECT:		14. CONGRESSIONAL DISTRICTS OF:			
Start Date June '99	Ending Date May '01	a. Applicant 2nd		b. Project 2nd	
15. ESTIMATED FUNDING:		16. IS APPLICATION SUBJECT TO REVIEW BY STATE EXECUTIVE ORDER 12372 PROCESS?			
a. Federal	\$	174,693		a. YES. THIS PREAPPLICATION/APPLICATION WAS MADE AVAILABLE TO THE STATE EXECUTIVE ORDER 12372 PROCESS FOR REVIEW ON: DATE _____	
b. Applicant	\$			b. NO. <input type="checkbox"/> PROGRAM IS NOT COVERED BY E.O. 12372 <input type="checkbox"/> OR PROGRAM HAS NOT BEEN SELECTED BY STATE FOR REVIEW	
c. State	\$				
d. Local	\$				
e. Other	\$				
f. Program Income	\$				
g. TOTAL	\$	174,693		17. IS THE APPLICANT DELINQUENT ON ANY FEDERAL DEBT? <input type="checkbox"/> Yes If "Yes," attach an explanation. <input type="checkbox"/> No	
18. TO THE BEST OF MY KNOWLEDGE AND BELIEF, ALL DATA IN THIS APPLICATION/PREAPPLICATION ARE TRUE AND CORRECT. THE DOCUMENT HAS BEEN DULY AUTHORIZED BY THE GOVERNING BODY OF THE APPLICANT AND THE APPLICANT WILL COMPLY WITH THE ATTACHED ASSURANCES IF THE ASSISTANCE IS AWARDED.					
a. Typed Name of Authorized Representative Jeff Wright		b. Title Director, Office of Sponsored Programs		c. Telephone number 916-898-5700	
d. Signature of Authorized Representative <i>Robert J. Borke for Jeff Wright</i>				e. Date Signed 7/2/98	

NONDISCRIMINATION COMPLIANCE STATEMENT

1/1/87 REV. 3-851 FMC

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.

NAME

Jeff Wright

EXECUTED

July 2, 1998

EXECUTED IN THE COUNTY OF

Butte

PROSPECTIVE CONTRACTOR'S SIGNATURE

TITLE OF CONTRACTOR

Director, Office of Sponsored Programs

ENTIRE CONTRACTOR'S LEGAL BUSINESS NAME

CSU, Chico Research Foundation

PART E: Certification Regarding Lobbying
Certification for Contracts, Grants, Loans, and Cooperative Agreements

CHECK IF CERTIFICATION IS FOR THE AWARD OF ANY OF THE FOLLOWING AND THE AMOUNT EXCEEDS \$100,000: A FEDERAL GRANT OR COOPERATIVE AGREEMENT; SUBCONTRACT, OR SUBGRANT UNDER THE GRANT OR COOPERATIVE AGREEMENT.

CHECK IF CERTIFICATION IS FOR THE AWARD OF A FEDERAL LOAN EXCEEDING THE AMOUNT OF \$150,000, OR A SUBGRANT OR SUBCONTRACT EXCEEDING \$100,000, UNDER THE LOAN.

The undersigned certifies, to the best of his or her knowledge and belief, that:

- (1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, and officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
- (2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.
- (3) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

As the authorized certifying official, I hereby certify that the above specified certifications are true.


SIGNATURE OF AUTHORIZED CERTIFYING OFFICIAL

Jeff Wright Director, Office of Sponsored Programs

TYPED NAME AND TITLE

DATE July 2, 1998

ASSURANCES—NON-CONSTRUCTION PROGRAMS

Public reporting burden for this collection of information is estimated to average 45 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0043), Washington, DC 20503.

PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE OFFICE OF MANAGEMENT AND BUDGET, SEND IT TO THE ADDRESS PROVIDED BY THE SPONSORING AGENCY.

Note: Certain of these assurances may not be applicable to your project or program. If you have questions please contact the awarding agency. Further, certain Federal awarding agencies may require applicants to certify to additional assurances. If such is the case, you will be notified.

As the duly authorized representative of the applicant I certify that the applicant:

1. Has the legal authority to apply for Federal assistance, and the institutional, managerial and financial capability (including funds sufficient to pay the non-Federal share of project costs) to ensure proper planning, management and completion of the project described in this application.
2. Will give the awarding agency, the Comptroller General of the United States, and if appropriate, the State, through any authorized representative, access to and the right to examine all records, books, papers, or documents related to the award, and will establish a proper accounting system in accordance with generally accepted accounting standards or agency directives.
3. Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest, or personal gain.
4. Will initiate and complete the work within the applicable time frame after receipt of approval of the awarding agency.
5. Will comply with the Intergovernmental Personnel Act of 1970 (42 U.S.C. §§ 4728-4763) relating to prescribed standards for merit systems for programs funded under one of the nineteen statutes or regulations specified in Appendix A of OPM's Standards for a Merit System of Personnel Administration (5 C.F.R. 900, Subpart F).
6. Will comply with all Federal statutes relating to nondiscrimination. These include but are not limited to: (a) Title VI of the Civil Rights Act of 1964 (P.L. 88-352) which prohibits discrimination on the basis of race, color or national origin; (b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C. §§ 1681-1683, and 1685-1686), which prohibits discrimination on the basis of sex; (c) Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. § 794), which prohibits discrimination on the basis of handicaps; (d) the Age Discrimination Act of 1975, as amended (42 U.S.C. §§ 6101-6107), which prohibits discrimination on the basis of age; (e) the Drug Abuse Office and Treatment Act of 1972 (P.L. 92-285), as amended, relating to nondiscrimination on the basis of drug abuse; (f) the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (P.L. 91-616), as amended, relating to nondiscrimination on the basis of alcohol abuse or alcoholism; (g) §§ 523 and 527 of the Public Health Service Act of 1912 (42 U.S.C. 290 dd-3 and 290 ee-3), as amended, relating to confidentiality of alcohol and drug abuse patient records; (h) Title VIII of the Civil Rights Act of 1968 (42 U.S.C. § 3601 et seq.), as amended, relating to non-discrimination in the sale, rental or financing of housing; (i) any other nondiscrimination provisions in the specific statute(s) under which application for Federal assistance is being made; and (j) the requirements of any other nondiscrimination statute(s) which may apply to the application.
7. Will comply, or has already complied, with the requirements of Titles II and III of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (P.L. 91-646) which provide for fair and equitable treatment of persons displaced or whose property is acquired as a result of Federal or federally assisted programs. These requirements apply to all interests in real property acquired for project purposes regardless of Federal participation in purchases.
8. Will comply with the provisions of the Hatch Act (5 U.S.C. §§ 1501-1508 and 7324-7328) which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.

9. Will comply, as applicable, with the provisions of the Davis-Bacon Act (40 U.S.C. §§ 276a to 276a7), the Copeland Act (40 U.S.C. § 276c and 18 U.S.C. §§ 874), and the Contract Work Hours and Safety Standards Act (40 U.S.C. §§ 327-33.3), regarding labor standards for federally assisted construction subagreements.
10. Will comply, if applicable, with flood insurance purchase requirements of Section 102(a) of the Flood Disaster Protection Act of 1973 (P.L. 93234) which requires recipients in a special flood hazard area to participate in the program and to purchase flood insurance if the total cost of insurable construction and acquisition is \$10,000 or more.
11. Will comply with environmental standards which may be prescribed pursuant to the following: (a) institution of environmental quality control measures under the National Environmental Policy Act of 1969 (P.L. 91-190) and Executive Order (EO) 11514; (b) notification of violating facilities pursuant to EO 11738; (c) protection of wetlands pursuant to EO 11990; (d) evaluation of flood hazards in floodplains in accordance with EO 11988; (e) assurance of project consistency with the approved State management program developed under the Coastal Zone Management Act of 1972 (16 U.S.C. §§ 1451 et seq.); (f) conformity of Federal actions to State (Clear Air) Implementation Plans under Section 176(c) of the Clear Air Act of 1955, as amended (42 U.S.C. § 7401 et seq.); (g) protection of underground sources of drinking water under the Safe Drinking Water Act of 1974, as amended, (P.L. 93-523); and (h) protection of endangered species under the Endangered Species Act of 1973, as amended, (P.L. 93-205).
12. Will comply with the Wild and Scenic Rivers Act of 1968 (16 U.S.C. §§ 1271 et seq.) related to protecting components or potential components of the national wild and scenic rivers system.
13. Will assist the awarding agency in assuring compliance with Section 106 of the National Historic Preservation Act of 1966, as amended (16 U.S.C. 470), EO 11593 (identification and protection of historic properties), and the Archaeological and Historic Preservation Act of 1974 (16 U.S.C. 469a-1 et seq.).
14. Will comply with P.L. 93-348 regarding the protection of human subjects involved in research, development, and related activities supported by this award of assistance.
15. Will comply with the Laboratory Animal Welfare Act of 1966 (P.L. 89-544, as amended, 7 U.S.C. 2131 et seq.) pertaining to the care, handling, and treatment of warm blooded animals held for research, teaching, or other activities supported by this award of assistance.
16. Will comply with the Lead-Based Paint Poisoning Prevention Act (42 U.S.C. §§ 4801 et seq.) which prohibits the use of lead based paint in construction or rehabilitation of residence structures.
17. Will cause to be performed the required financial and compliance audits in accordance with the Single Audit Act of 1984 or OMB Circular No. A-133, Audits of Institutions of Higher Learning and other Non-profit Institutions.
18. Will comply with all applicable requirements of all other Federal laws, executive orders, regulations and policies governing this program.

SIGNATURE OF AUTHORIZED CERTIFYING OFFICIAL 	TITLE Director, Office of Sponsored Programs
APPLICANT ORGANIZATION The CSU, Chico Research Foundation California State University, Chico	DATE SUBMITTED 7-2-98

Standard Form 424B (Rev. 4/92) back

**Certifications Regarding Debarment, Suspension and
Other Responsibility Matters, Drug-Free Workplace
Requirements and Lobbying**

Persons signing this form should refer to the regulations referenced below for complete instructions:

Certification Regarding Debarment, Suspension, and Other Responsibility Matters - Primary Covered Transactions - The prospective primary participant further agrees by submitting his proposal that it will include the clause titled, "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion - Lower Tier Covered Transaction," provided by the department or agency entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions. See below for language to be used or use this form for certification and sign. (See Appendix A of Subpart D of 43 CFR Part 12.)

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion - Lower Tier Covered Transactions - (See Appendix B of Subpart D of 43 CFR Part 12.)

Certification Regarding Drug-Free Workplace Requirements - Alternate I. (Grantees Other Than Individuals) and Alternate II. (Grantees Who are Individuals) - (See Appendix C of Subpart D of 43 CFR Part 12)

Signature on this form provides for compliance with certification requirements under 43 CFR Parts 12 and 18. The certifications shall be treated as a material representation of fact upon which reliance will be placed when the Department of the Interior determines to award the covered transaction, grant, cooperative agreement or loan.

ART A: Certification Regarding Debarment, Suspension, and Other Responsibility Matters - Primary Covered Transactions

CHECK ___ IF THIS CERTIFICATION IS FOR A PRIMARY COVERED TRANSACTION AND IS APPLICABLE

- 1) The prospective primary participant certifies to the best of its knowledge and belief, that it and its principals:
- (a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded by any Federal department or agency;
 - (b) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
 - (c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (1)(b) of this certification; and
 - (d) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.
- 2) Where the prospective primary participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

ART B: Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion - Lower Tier Covered Transactions

CHECK ___ IF THIS CERTIFICATION IS FOR A LOWER TIER COVERED TRANSACTION AND IS APPLICABLE

- 1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
- 2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

OI-2010
June 1995
(This form replaced OI-1962, OI-1964,
OI-1966, OI-1968 and OI-1973)

PART C: Certification Regarding Drug-Free Workplace Requirements

CHECK IF THIS CERTIFICATION IS FOR AN APPLICANT WHO IS NOT AN INDIVIDUAL

Alternate I. (Grantees Other Than Individuals)

A. The grantee certifies that it will or continue to provide a drug-free workplace by:

- (a) Publishing a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the grantee's workplace and specifying the actions that will be taken against employees for violation of such prohibition;
- (b) Establishing an ongoing drug-free awareness program to inform employees about—
 - (1) The dangers of drug abuse in the workplace;
 - (2) The grantee's policy of maintaining a drug-free workplace;
 - (3) Any available drug counseling, rehabilitation, and employee assistance programs; and
 - (4) The penalties that may be imposed upon employees for drug abuse violations occurring in the workplace;
- (c) Making it a requirement that each employee to be engaged in the performance of the grant be given a copy of the statement required by paragraph (a);
- (d) Notifying the employee in the statement required by paragraph (a) that, as a condition of employment under the grant, the employee will —
 - (1) Abide by the terms of the statement; and
 - (2) Notify the employer in writing of his or her conviction for a violation of a criminal drug statute occurring in the workplace no later than five calendar days after such conviction;
- (e) Notifying the agency in writing, within ten calendar days after receiving notice under subparagraph (d)(2) from an employee or otherwise receiving actual notice of such conviction. Employers of convicted employees must provide notice, including position title, to every grant officer on whose grant activity the convicted employee was working, unless the Federal agency has designated a central point for the receipt of such notices. Notice shall include the identification number(s) of each affected grant;
- (f) Taking one of the following actions, within 30 calendar days of receiving notice under subparagraph (d)(2), with respect to any employee who is so convicted —
 - (1) Taking appropriate personnel action against such an employee, up to and including termination, consistent with the requirements of the Rehabilitation Act of 1973, as amended; or
 - (2) Requiring such employee to participate satisfactorily in a drug abuse assistance or rehabilitation program approved for such purposes by a Federal, State, or local health, law enforcement, or other appropriate agency;
- (g) Making a good faith effort to continue to maintain a drug-free workplace through implementation of paragraphs (a) (b), (c), (d), (e) and (f).

B. The grantee may insert in the space provided below the site(s) for the performance of work done in connection with the specific grant:

Place of Performance (Street address, city, county, state, zip code)

CSU, Chico Research Foundation, Kendall Hall Room 114
Chico, California 95929-0870

Check if there are workplaces on file that are not identified here.

PART D: Certification Regarding Drug-Free Workplace Requirements

CHECK IF THIS CERTIFICATION IS FOR AN APPLICANT WHO IS AN INDIVIDUAL.

Alternate II. (Grantees Who Are Individuals)

- (a) The grantee certifies that, as a condition of the grant, he or she will not engage in the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance in conducting any activity with the grant;
- (b) If convicted of a criminal drug offense resulting from a violation occurring during the conduct of any grant activity, he or she will report the conviction, in writing, within 10 calendar days of the conviction, to the grant officer or other designee, unless the Federal agency designates a central point for the receipt of such notices. When notice is made to such a central point, it shall include the identification number(s) of each affected grant.

01-2010
June 1996
(This form replaces OI-1962, OI-1964,
OI-1966, OI-1968 and OI-1982)

BUDGET INFORMATION - Non-Construction Programs

OMB Approval No. 0348-0044

SECTION A: BUDGET SUMMARY

Grant Program Function or Activity (a)	Catalog of Federal Domestic Assistance Number (b)	Estimated Unobligated Funds		New or Revised Budget		
		Federal (c)	Non-Federal (d)	Federal (e)	Non-Federal (f)	Total (g)
1. CALFED Category III		\$	\$	\$ 179,121	\$	\$ 179,121
2.	N/A					\$0
3.						\$0
4.						\$0
5. TOTALS		\$0	\$0	\$179,121	\$0	\$179,121

SECTION B: BUDGET CATEGORIES

6. OBJECT CLASS CATEGORIES	GRANT PROGRAM, FUNCTION OR ACTIVITY				Total (5)
	(1) CALFED Category III	(2)	(3)	(4)	
a. Personnel	\$ 15,425	\$	\$	\$	\$15,425
b. Fringe Benefits	\$4,380				\$4,380
c. Travel	\$1,400				\$1,400
d. Equipment	Gate, Educational Signs & Materials \$12,000				\$12,000
e. Supplies	Restoration Materials and Office Supplies \$31,200				\$31,200
f. Contractual	GIS Mapping - Consultants \$10,000				\$10,000
g. Construction					\$0
h. Other	Endowment \$100,000				\$100,000
i. Total Direct Charges (sum of 6a-6h)	\$174,405				\$174,405
j. Indirect Charges	\$4,717				\$4,717
k. TOTALS (sum of 6i and 6j)	\$179,122				\$179,122
7. PROGRAM INCOME	\$0	\$0	\$0	\$0	\$0

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Standard Form 424A (Rev. 4-92)
Prescribed by OMB Circular A-102

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SECTION D - NON-FEDERAL RESOURCES					
(a) Grant Program	(b) Applicant	(c) State	(d) Other sources	(e) TOTALS	
8. CALFED Category III	\$0	\$0	\$0	\$0	
9.				\$0	
10.				\$0	
11.				\$0	
12 TOTALS (sum of lines 8 and 11)	\$0	\$0	\$0	\$0	
SECTION D - FORECASTED CASH NEEDS					
	Total for 1st Year	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
13. Federal	\$179,121	\$119,780	\$19,780	\$19,780	\$19,780
14. NonFederal	\$0	\$0	\$0	\$0	\$0
15. TOTAL (sum of lines 13 and 14)	\$179,121	\$119,780	\$19,780	\$19,780	\$19,780
SECTION E - BUDGET ESTIMATES OF FEDERAL FUNDS NEEDED FOR BALANCE OF THE PROJECT					
(a) Grant Program	FUTURE FUNDING PERIODS (YEARS)				
	(b) First	(c) Second	(d) Third	(e) Fourth	
16. EEGP Phase II - Year 1	\$ 179,121	\$	\$	\$	
17. EEGP Phase II - Year 2		\$75,000			
18. EEGP Phase II - Year 3			\$75,000		
19. EEGP Phase II - Year 4				\$75,000	
20. TOTALS (sum of lines 16 - 19)	\$179,121	\$75,000	\$75,000	\$75,000	
SECTION F - OTHER BUDGET INFORMATION					
21. Direct Charges:	\$179,121	22. Indirect Charges			
		\$4,717 Total Indirect Expense (18.5% S&W & 42% S&W)			
23. Remarks					

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