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Friends of Corte Madera Creek Watershed

Post Office Box 415 Larkspur, California 94977

July 1, 1998

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

Dear CALFED Bay - Delta Program :

On behalf of the Friends of Corte Madera Creek Watershed and A. A. Rich and Associates, I am submitting ten copies of our proposal for a steelhead trout planning effort as part of the 1998 Category III CALFED Bay - Delta Program.

We look forward to continuing our efforts to improve water quality and the natural environment in our watershed whatever the outcome of this application process, but receipt of this grant would allow us to take a major step forward in those efforts.

Please call me at (415) 456-5052 if you have questions about the enclosed proposal. Thank you for the opportunity to submit this proposal.

Sincerely,

Ms. Sandra Goldman
Co-chairperson, Friends of Corte Madera Creek Watershed

COVER SHEET (PAGE 1 of 2)

May 1998 CALFED ECOSYSTEM RESTORATION PROPOSAL SOLICITATION

Proposal Title: Local Watershed Stewardship: Steelhead Trout Plan
 Applicant Name: Friends of Corte Madera Creek Watershed
 Mailing Address: P.O. Box 415 Larkspur CA 94977
 Telephone: (415) 457-6045
 Fax: None

Amount of funding requested: \$47,500 for 1.5 years

Indicate the Topic for which you are applying (check only one box).

- | | |
|---|---|
| <input type="checkbox"/> Fish Passage Assessment | <input type="checkbox"/> Fish Passage Improvements |
| <input type="checkbox"/> Floodplain and Habitat Restoration | <input type="checkbox"/> Gravel Restoration |
| <input type="checkbox"/> Fish Harvest | <input type="checkbox"/> Species Life History Studies |
| <input checked="" type="checkbox"/> Watershed Planning/Implementation | <input type="checkbox"/> Education |
| <input type="checkbox"/> Fish Screen Evaluations - Alternatives and Biological Priorities | |

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

- | | |
|---|---|
| <input type="checkbox"/> Sacramento River Mainstem | <input type="checkbox"/> Sacramento Tributary |
| <input type="checkbox"/> Delta | <input type="checkbox"/> East Side Delta Tributary |
| <input type="checkbox"/> Suisun marsh and Bay | <input type="checkbox"/> San Joaquin Tributary |
| <input type="checkbox"/> San Joaquin River Mainstem | <input type="checkbox"/> Other |
| <input type="checkbox"/> Landscape (entire Bay-Delta watershed) | <input checked="" type="checkbox"/> North Bay: Corte Madera Creek |

Indicate the primary species which the proposal addresses (check no more than two boxes).

- | | |
|--|---|
| <input type="checkbox"/> San Joaquin and East-side Delta tributaries fall-run chinook salmon | <input type="checkbox"/> Spring-run chinook salmon |
| <input type="checkbox"/> Winter-run chinook salmon | <input type="checkbox"/> Fall-run chinook salmon |
| <input type="checkbox"/> Late-fall run chinook salmon | <input type="checkbox"/> Longfin smelt |
| <input type="checkbox"/> Delta smelt | <input checked="" type="checkbox"/> Steelhead trout |
| <input type="checkbox"/> Splittail | <input type="checkbox"/> Striped bass |
| <input type="checkbox"/> Green sturgeon | |
| <input type="checkbox"/> Migratory birds | |

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 type="checkbox"/> University | <input type="checkbox"/> Other |

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

- | | |
|--|---|
| <input checked="" type="checkbox"/> Planning | <input 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 persons submitting the application has read and understood the 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)

COVER SHEET (PAGE 1 of 2)

May 1998 CALFED ECOSYSTEM RESTORATION PROPOSAL SOLICITATION

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| <input type="checkbox"/> Fish Screen Evaluations - Alternatives and Biological Priorities | |

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Indicate the primary species which the proposal addresses (check no more that two boxes).

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| <input type="checkbox"/> Green sturgeon | <input type="checkbox"/> Striped bass |
| <input type="checkbox"/> Migratory birds | |

**Local Watershed Stewardship: Steelhead Trout Plan
Corte Madera Creek Watershed, Marin County, California**
submitted by
Friends of Corte Madera Creek Watershed

Part II: EXECUTIVE SUMMARY

a. Project Title and Applicant Name: Local Watershed Stewardship: Steelhead Trout Plan, Corte Madera Creek Watershed, Marin County, California, submitted by Friends of Corte Madera Creek Watershed (*Friends*).

b. Project Description and Primary Biological/Ecological Objectives: The purpose of this project is to develop a steelhead trout plan, one component of a comprehensive watershed plan to improve water quality, fishery resources, and native vegetation and wildlife in the Corte Madera Creek Watershed. The steelhead trout plan will be based on the proposed study to identify the factors limiting viability of the steelhead trout population, formulate corrective actions, and monitor the success of those actions. Preparation of the plan will be an integral part of the watershed planning process, which begins in October with an erosion and sedimentation study of the watershed funded by a State Water Resources Control Board 205 (j) grant. The proposed fishery study/assessment will provide essential information (which is lacking at this time) about creek biota. Implementation of the plan will improve habitat for and population levels of steelhead trout.

c. Approach / Tasks / Schedule: The steelhead plan will focus on identifying limiting factors and formulating a practical restoration plan that will enjoy local support. To that end, an Advisory Committee comprised of representatives from local government, federal and state agencies, community groups, and business groups will review documents and guide formulation of the restoration plan. The proposed effort will occur concurrently with the erosion/sedimentation planning. The schedule assumes funding begins February 1999:

Task 1:	Review and analysis of existing information	Feb - Mar 1999
Tsks 2/3:	Fish habitat and population surveys	Summer 1999
Task 4:	Thermograph installation and operation	Apr - Oct 1999
Task 5:	Analysis and report of results	Sep - Nov 1999
Task 6:	Restoration plan to address limiting factors	Nov 1999 - Jul 2000
Task 7:	Monitoring plan	Jan - Jul 2000

d. Justification for the Project and funding by CALFED: Corte Madera Creek and its tributaries are among the few streams flowing to San Francisco Bay that retain a steelhead trout population. Although population studies are not available, anecdotal information suggests that steelhead populations have declined in the last few decades. Stressors may include hydrograph changes, streambed changes, loss of riparian habitat, land use and human impacts, increased water temperature, and water quality degradation. However, in spite of these problems, Corte Madera Creek Watershed has been identified by Robert Leidy, EPA biologist, as one of the watersheds that should be targeted for protection.

Although this study targets steelhead trout, habitat improvements in the riparian corridors will also benefit riverine aquatic habitat and the neotropical migratory bird guild that uses the

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Corte Madera Creek Watershed*

riparian corridor. Similarly, improvements in water quality and water flows likely will benefit saline emergent wetlands habitats in the lower reaches of the watershed that may support splittail and striped bass. San Francisco Bay will also benefit from improvements in water quality, flow, and temperature. These benefits are all goals of the CALFED Project.

e. Budget Costs and Third-Party Impacts: Estimated cost for the seven tasks is \$47,500. The proposed information gathering and planning effort itself will have no third-party impacts. However, benefits to the environment of implementation of the resulting restoration plan will apply to the community at large. Potential negative impacts to individual property owners include decreased use of stream diversions for landscape irrigation and increased responsibility for private property owners to abate erosion on their land. Marin County Open Space District and Marin Municipal Water District could also incur some costs for plan implementation on their lands for which outside funding might not be available. There is also a potential for conflicts between flood prevention and the need to provide shelter for fish, for example, by providing woody debris in the streams.

f. Applicant Qualifications: *Friends* is a non-profit organization that has been active in the watershed since 1993 and has been successful at planning and implementing several projects. Board members have been active in environmental efforts for many years in Marin County and are committed to this effort. Although many *Friends*' projects focus on implementation, the organization realizes the need to develop a comprehensive watershed plan. The funding provided by this grant will enable the hiring of the essential technical expertise that *Friends* and the other cooperating agencies cannot supply.

Sandra Guldman, a board member of *Friends*, will serve as project manager for this grant. She has 11 years' experience managing conservation planning efforts, including supervision of biologists, and has set aside adequate time for this task. A. A. Rich has over 25 years of technical in a wide range of fisheries-related projects. Her professional experience encompasses work as a fisheries consultant, fisheries biologist, fish physiologist, analytical chemist, and university lecturer. She is a recognized expert in fishery resources habitat needs and fish physiology and has been called upon as an expert witness on the impacts of water temperature, water quality, water diversions, migration barriers, timber harvest practices, and catch-and-release fishing on fishery resources.

g. Monitoring and Data Evaluation: Provisions for plan revision and adaptive management will be included in the plan. Technical experts on the Advisory Committee will provide peer review for all phases of the data gathering, analysis, and planning efforts.

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

Objectives: As part of a comprehensive watershed planning effort that includes this proposed effort as well as other components, *Friends* has developed a working relationship with a wide range of local groups and regulators, most of whom have agreed to serve on the Advisory Committee. *Friends* also maintains outreach programs with community groups, neighborhood associations, and local schools to improve water quality and habitat values in the watershed. These efforts are consistent with CALFED objectives to improve Bay - Delta environments.

Part III: Title Page

- a. **Title of Project:** Local Watershed Stewardship: Steelhead Trout Plan: Corte Madera Creek Watershed, Marin County, California
- b. **Applicant:** Friends of Corte Madera Creek Watershed
- Co-chairpersons:** Carole d'Alessio Sandra Guldman
P.O. Box 339 40 Quisisana Drive
Ross CA 94957 Kentfield CA 94904
- Phone:** (415) 454-8608 (415) 456-5052
- Fax:** (415) 454-1749 (415) 456-4992
- E-mail:** d'Alessio@microweb.com toyon@hooked.net
- c. **Type of Organization:** Non-profit 501(c)(3)
- d. **Tax ID:** 68-0365270
- e. **Collaborator:** A. A. Rich
A. A. Rich and Associates
150 Woodside Drive
San Anselmo CA 94960
- Phone:** (415) 485-2937
- Fax:** (415) 485-9221
- E-mail:** aarfish@nbn.com
- Financial Contact:** Richard Slusher, CPA
925 Sir Francis Drake Boulevard
Kentfield CA 94904
- Phone:** (415) 485-0706
- Fax:** (415) 453-7097
- E-mail:** rslush@worldnet.att.net
- Other Participants:** Advisory Committee, including local government, federal and state agency representatives, community groups, and business groups

Part IV: Project Description and Approach

a. Project Description and Approach: The purpose of this project is to identify the factors limiting long-term viability of the steelhead trout population in Corte Madera Creek and then prepare a restoration plan using the information gathered. Plan implementation will improve habitat for and population levels of steelhead trout.

Objectives include gathering information on former and current use of the watershed by steelhead trout and other fish (known from earlier studies and incidental observations), flow regimes, water temperature, location and condition of steelhead trout habitat needs (spawning gravels, availability of pools and sheltering habitat, food sources, barriers to movement within the creek and its tributaries), and other characteristics of the creek and the watershed that affect the steelhead trout population. After this information has been gathered, it will be used to prepare a restoration plan. Expected components of the steelhead restoration plan include improvements to both instream aquatic habitats and shaded riverine aquatic habitats.

The plan produced in this project will be part of a comprehensive watershed plan being developed by *Friends*. Funding has been obtained for preparation of an erosion and sediment transport and deposition control plan to be prepared beginning in October 1998. The hydrology and geomorphology information will be synergistic with this proposed study. Other components of the watershed plan to be developed in the future will build on these two major components.

Although there have been some fishery resource-related studies in Corte Madera Creek, critical questions remain to be addressed before a cause-and-effect analysis can be undertaken. Only by understanding the limiting factors can effective rehabilitation measures be implemented. Monitoring the success of the identified restoration measures will then enable continuing effective enhancement of the watershed. The basic questions to be answered during this resource assessment and restoration planning effort include the following:

- What are the distribution and relative abundance of steelhead trout, as well as other fishes?
- Where are areas of degraded habitat, by species and life stage?
- Are there areas of high existing or potential habitat use?
- Where are areas of limited habitat availability?
- What are the factors limiting steelhead trout (e.g., barriers, spawning habitat, rearing habitat) during any of their life stages?
- What are effective ways to address the problems identified in the study?

b. Scope of Work: The steelhead resource assessment and restoration plan will consist of the following tasks:

- Task 1: A review and analysis of relevant existing information (including previous fish surveys and data on water quality, water flow, and water temperature).
- Task 2: Summer fish habitat survey, using a modification of the habitat typing described by Bisson *et al.* (1992) and general descriptive measurements.

- Task 3: Summer fish population survey in which representative habitat types (based on prior habitat typing survey) are sampled.
- Task 4: Thermographs to be placed in representative areas of each reach of the creek (trained volunteers will maintain these thermographs).
- Task 5: Analysis and report of results, including depicting data on a Marin County Department of Public Works Geographic Information System.
- Task 6: Preparation of a restoration plan to address the identified limiting factors, developed in consultation with the Advisory Committee.
- Task 7: Preparation of the monitoring plan to measure the effectiveness of plan implementation.

The work product will be a technical report describing the full effort, with the following table of contents:

Chapter 1	Introduction
Chapter 2	Background
Chapter 3	Surveys (methodology and results for all components) Habitat Typing Fishery Population Thermographs
Chapter 4	Analysis of Results
Chapter 5	Restoration Measures
Chapter 6	Monitoring Plan

c. Location of the Project: The Corte Madera Creek watershed covers 28 square miles located in the eastern part of central Marin County (see Attachment 1). It drains into San Francisco Bay just south of the San Quentin Peninsula, approximately 10 miles north of the Golden Gate. The watershed extends from latitude 37.85° N to 38.03°N and from 122.51°W to 122.61°W. Its elevations range from sea level to 2,571 feet at the East Peak of Mount Tamalpais.

d. Expected Benefits: The target species is the listed steelhead trout, remnant populations of which persist in the Corte Madera Creek watershed. Habitats that have suffered loss along the creek and that are immediately relevant to the survival of steelhead trout populations include riparian and riverine aquatic habitats.

The purpose of this study is to identify the crucial limiting factors (stressors) to steelhead trout populations in the watershed. There are many possible contenders, including hydrograph alterations, migration barriers, alteration of channel form, isolation of sidechannels, channel aggradation due to fine sediments, loss of riparian zone, degradation of water quality, high water temperatures, land uses encroaching on the stream and flood zone, and human disturbance. Clearly, some of these are more amenable to improvement than others. To be useful, any plan must be plausible. This may preclude proposing that the flood control channel be removed. However, if the steelhead resource assessment identifies the channel in its current configuration as a major contributor to limited steelhead success, it may be possible to find opportunities for improvement, especially since the Corps of Engineers may finally complete this flood control project.

*Watershed Plan: Steelhead Trout Component
Corte Madera Creek Watershed*

This list of stressors makes apparent the need to integrate this proposed effort with the erosion and sediment transport and deposition study to begin in October 1998. That plan will present a range of feasible and cost effective measures that, when implemented, will reduce bank erosion, improve stream channel characteristics, and reduce the amount of sediment supplied to the stream. Means to reduce diversions will be included. Our goal is to ensure that measures developed in response to identified hydrological and geomorphological problems will be engineered in a manner that benefits native species and are supported by the public.

At this stage, the benefits from the proposed steelhead resource assessment and restoration plan cannot be quantified. When the restoration plan is written, it will be possible to quantify reaches of the stream targeted for habitat improvements and, perhaps, to predict the expected effects on the steelhead population.

Implementation of the steelhead restoration plan may include actions that would respond to the numerous ERPP objectives, depending on the limiting factors identified in the proposed study. Based on our current knowledge of the watershed, the following ERPP objectives or actions are most likely to be addressed as part of the plan :

Ecosystem Element	Page (ERPP Vol. I)	Action
Ecosystem Processes		
Natural Sediment Supply	33	enhance and restore natural stream bank erosion and stream meander processes
Habitats		
Riparian and Riverine Aquatic Habitats	110	reduce bank hardening by creating meander zones and widening floodplains
	110	analyze alternative approaches for water diversions
	110	remove small, nonessential dams on gravel-rich streams
	111	designate and acquire "stream erosion zones"
	111	eliminate or modify programs which remove large woody debris from stream channels
Species		
Steelhead Trout	160	implement a coordinated approach to restore ecosystem processes and functions
	160	implement measures to restore habitat when restoration of ecosystem processes and functions is not feasible
	160	protect spawning and rearing habitat in upper tributary watersheds

	160	improve riparian corridors in lower tributaries
	160	improve estuary habitat
California Clapper Rail	236	improve water quality of Bay marshes
Neotropical Migratory Bird Guild	265	increase wetland and riparian habitats
Stressors		
Dams, Weirs, and Other Structures	280	upgrade existing ladder systems to improve fish passage where needed
	280	construct fish ladders, where appropriate, to minimize blockages of upstream migrating anadromous fish behind weirs
	280	where feasible and consistent with other uses, reconstruct diversions or remove dams to allow fish passage

e. Background and Biological/Technical Justification: Stream surveys conducted by CDFG from 1960 through 1980 showed five dominant species present in Corte Madera Creek and its tributaries (sucker, roach, stickleback, sculpin, and steelhead) with occasional sightings of Coho salmon. RWQCB staff conducted field surveys during the summer of 1992. The three most frequently observed species were the California roach, Sacramento sucker, and three-spined stickleback. Eleven steelhead trout were trapped and many others were observed. All steelhead were in the lower part of the creek in deep, shaded pools under overhangs, log debris, and bridges. No other salmonid species were observed during these surveys.

Need for the Project: This information suggests decreasing populations of salmonid species in the Corte Madera Creek watershed. Given the urbanized nature of the lower watershed, it is likely that the steelhead trout is the only salmonid species persisting to the present time. This proposed study will identify how this trend can be reversed and present an action plan for the restoration of Corte Madera Creek as long-term steelhead trout habitat.

The alternative to a planned approach is to proceed with habitat improvement measures on an *ad hoc* basis as opportunities occur. Such an approach would be unlikely to harm the steelhead population, but it could easily result in using resources to implement projects that address peripheral issues. Without a monitoring plan, based on a thorough study like the one proposed in this effort, the success of the *ad hoc* projects could not be effectively evaluated and sincere efforts could easily be misdirected.

Durability of the Project: It is likely that most of the measures implemented will deal with the freshwater creeks in the watershed. Long-term rise in sea-level would not affect those areas, except for indirect land use changes as development moved away from low-lying areas. This plan, assuming that it will address appropriate changes in land use planning by the local jurisdictions in the watershed, would be doubly important in such a situation.

*Watershed Plan: Steelhead Trout Component
Corte Madera Creek Watershed*

Drought would adversely affect the watershed directly by reducing the water in the creek and thereby stressing aquatic and riparian organisms. An indirect impact of drought would be to make it more likely that adjacent landowners would divert water from the creek to keep landscaping alive and further reduce the water in the creek. A restoration plan would not provide more rainfall, but it might help reduce diversions.

Increases in native species, both plant and animal, resulting from plan implementation would be stable except for impacts from drought and land use changes that cannot be remedied after the fact. However, the trend is toward stream protection and it is likely that in Marin County, there would be public support for environmental protection.

Status of the Project: This project is one component of a comprehensive watershed plan. The first phase, an erosion and sediment transport and deposition plan, will begin in October 1998. In preparation for the planning efforts, *Friends* has gathered the results of existing studies into a Background Report. We have also implemented the following projects since our inception in 1993:

- Implemented four revegetation programs.
- Organized three clean-up programs.
- Published a brochure and several newsletters and sponsored community programs about watershed planning, water quality, historic and current conditions in the watershed, natural plant communities, fish populations, and erosion.
- Developed CreekWatchers, a program that helps identify creek problems.
- Conducted the San Anselmo Creeks Vegetation Summary and Photographic Monitoring Project, with two research aspects: (1) photographic documentation of the 3.5 miles of creeks within incorporated San Anselmo; and (2) a survey of riparian vegetation and the threats to health of creeks in this same urban area.
- Sponsors a water quality monitoring and education program with students from kindergarten through twelfth grade. They test for turbidity, temperature, dissolved oxygen, conductivity, and pH as part of a watershed-wide monitoring and education program. The data serve three functions: They document baseline conditions; they will be used in developing the watershed plan; and, most important for the future, the data will allow *Friends* and other stakeholders to monitor the success of plan implementation in producing improvements in water quality. The involvement of schools and students also builds a basis for sustained community involvement in protecting the creek.

Interaction with Other Programs and Projects: *Friends* has established working relationships with the following entities in the watershed: Marin County Flood Control and Water Conservation District, Marin County Department of Public Works, Marin County Open Space District, Marin County Stormwater Pollution Prevention Program, Marin Municipal Water District, Town of San Anselmo, Town of Ross, Town of Fairfax, and City of Larkspur. These groups, along with the Regional Water Quality Control Board, have agreed to serve on the Advisory Committee that will set overall goals and objectives for the watershed plan policy, review and evaluate technical information, and provide guidance throughout development of components of the watershed plan. The Advisory Committee will also include representatives from a broad range of stakeholders as well as people with expertise in major concerns in the

watershed, including water quality, fisheries, native plants and wildlife, wetland and upland habitats, flood control, and recreational uses. At a minimum, representatives from local governments, regulatory agencies, environmental organizations, trade and business groups, recreational interests, schools, and private landowners will be included. A Fishery Subcommittee will be formed as part of this project.

f. Monitoring and Data Evaluation: A monitoring plan, to be prepared as part of the proposed steelhead plan, will be designed to quantify the results of plan implementation with respect to fish populations and habitat characteristics. Surveys similar to those conducted for this proposed effort will be defined for areas where specific measures are implemented. This scope of work does not include plan implementation or the resultant monitoring, so details cannot be provided at this time. When the monitoring plan is prepared, it will specify complete survey and monitoring protocols, criteria for selecting monitoring locations, and qualifications of those conducting the monitoring. A Quality Assurance Project Plan will be included.

Provisions for plan revision and adaptive management will be included in the plan. The chapters of the technical report will be written as the tasks are completed and submitted to the Fishery Subcommittee of the Advisory Committee for review. Representatives from the California Department of Fish and Game, U.S. Fish and Wildlife Service, National Marine Fisheries Service, Environmental Protection Agency, Regional Water Quality Control Board, and other appropriate regulators and technical experts will be recruited to serve on the Fishery Subcommittee. These experts will provide peer review for all phases of the data gathering, analysis, and planning efforts.

The framework for data review has been established as part of the comprehensive watershed planning effort. It includes not only the Advisory Committee representing a very broad group of stakeholders, but also volunteers observing the creek and monitoring water quality.

g. Implementability: One of the major criteria for the restoration plan is that it be practical. The communities, landowners, and other local land managers participate in the planning effort with the goal of preparing a plan that can be funded and implemented. The need for public support is recognized and will be actively sought.

Permits and approvals will be obtained from appropriate agencies for any work conducted as part of plan implementation. We recognize that when listed species could be affected, this can be a complex process. The project manager has extensive experience with NEPA and CEQA compliance, endangered species permitting, and other permitting that may be required for work in or near streams.

References Cited:

Bisson, P.A., J.L. Nielsen, R.A. Palmason, and L.E. Grove. 1982. A system of naming habitat types in small streams, with examples of habitat utilization by salmonids during low streamflow. Proc. Sympos. Acquisition and Utilization of Aquatic Habitat Inventory Information, Portland, Oregon, October 28-30, 1981. Pages 62-73.

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Part V: Costs and Schedule to Implement Proposal

a. Budget Costs: Funding for this project includes in-kind donations by *Friends* for project management. It also includes in-kind donations from local jurisdictions and land managers for participation in document review, planning, and public outreach. The value of these efforts is expected to be approximately equal to the amount of the grant request, which will fund the technical expertise that cannot be provided by the stakeholders.

In the budget printed below, the direct costs are for printing, telephone, fax, postage, and similar expenses that will be incurred by *Friends* in managing the project. A. A. Rich & Associates (AAR) is listed as a contractor. *Friends* considers AAR an integral part of this proposal and the most appropriate fisheries consultant for the work described in the proposal.

Task	Service Contracts (AAR)	Direct Costs (<i>Friends</i>)	Total Cost
1. Review	4,000	200	4,200
2. Habitat Survey	6,000	100	6,100
3. Fish Population Survey	10,000	200	10,200
4. Thermographs	2,000	500	2,500
5. Reporting and Analysis	8,000	500	8,500
6. Restoration Plan	10,000	2,000	12,000
7. Monitoring Plan	3,700	300	4,000
Total	\$ 43,700	\$ 3,800	\$ 47,500

b. Schedule Milestones: The following milestones are presented, assuming funding would be received no later than February 1, 1999. Since the surveys will be conducted during the summer, earlier availability of funding would not change the overall schedule.

Complete review of existing information	March 31, 1999
Submit draft Chapters 1 and 2	May 30, 1999
Complete habitat typing	July 31, 1999
Complete fish population surveys	August 31, 1999
Thermographs: complete data gathering	October 31, 1999
Submit draft Chapter 3	December 31, 1999
Public meeting(s) to discuss limiting factors, possible actions	February -April 2000
Submit Draft Chapters 4, 5, and 6	May 15, 2000
Public meeting to discuss draft plan	June 2000
Submit Final Technical Report	July 31, 2000

c. Third-party Impacts: The proposed information gathering and planning effort itself will have no third-party impacts. However, it is expected that benefits to the environment of

implementation of the resulting restoration plan will apply to the community at large. Potential negative impacts to individual property owners include decreased use of stream diversions for landscape irrigation and pressure to abate erosion on private property. Marin County Open Space District and Marin Municipal Water District could also incur some costs for plan implementation on their lands for which outside funding might not be available. There will also be a need to reconcile the potential conflicts between flood prevention and, for example, the need to provide shelter for fish by providing woody debris in the streams.

Part VI: Applicant Qualifications

The flowchart in Attachment 2 shows project organization. Key players for this project are Ms. Sandra Guldman, Project Manager, and Dr. Alice A. Rich, Fisheries Biologist.

Ms. Guldman will serve as a volunteer project manager as part of her participation in *Friends*. She will supervise contract administration, write progress reports, and supervise preparation of invoices. She will also coordinate interaction with the Advisory Committee and its subcommittees, public meetings, and review of documents and technical reports. Her recent professional experience includes the following conservation planning efforts during the period 1991 through 1998:

- Project Manager for Habitat Conservation Plan for California red-legged frog found at Bonny Doon Quarry, Santa Cruz County. This HCP required surveys and report preparation, negotiation with USFWS, mitigation plan development, employee education, and environmental compliance monitoring.
- Project Manager for California Aqueduct, San Joaquin Field Division Habitat Conservation Plan, coordinating data gathering and plan development for the Department of Water Resources. This project includes supporting documentation, such as the Operations and Maintenance Plan, for permits covering operations and maintenance activities along approximately 125 miles of aqueduct corridor in central California between Kettleman City and the Grapevine. It requires coordination and negotiation among federal and state permitting agencies, different divisions of the Department of Water Resources, adjacent landowners, and State Water Contractors.
- Project Manager for Coalinga Habitat Conservation Plan. This conservation planning effort is based on the Pleasant Valley Habitat Conservation Plan, which was abandoned because of opposition from the Fresno County Farm Bureau. The project required coordinating resource surveys, data gathering, and plan development for Fresno County and the City of Coalinga; ranchers; several oil companies, including Chevron; and three aggregate mining companies. Fresno County has dropped out of this effort and the HCP is being used as the basis for a planning policy document for the City of Coalinga, which will use it to ensure compliance with State and Federal Endangered Species Acts.
- Project Manager for biological analyses and preserve design for San Joaquin County Habitat Conservation and Open Space Plan, coordinating data gathering and preserve design for the San Joaquin County Council of Governments. This project included gathering and analyzing biological baseline data for all of San Joaquin County, calculating impacts to habitat, and developing criteria for the selection of preserves and

*Watershed Plan: Steelhead Trout Component
Corte Madera Creek Watershed*

open space to compensate for impacts to the target species. There are approximately 100 sensitive species on the species list.

During the period 1989 through 1991, Ms. Guldman worked on the following projects that called for management of biological, cultural, and paleontological resource surveys, mitigation planning and monitoring, and extensive coordination with state and federal agencies.

- Project Manager for joint NEPA/CEQA environmental review for a 73-mile railroad renovation in Kern and Inyo Counties.
- Project Manager for permitting two pipeline projects in the San Joaquin Valley for Mobil Oil Corporation.
- Project Manager for the Pacific Gas and Electric proposed natural gas pipeline reinforcement project in San Bernardino and Kern Counties.
- Project Manager for the Southern California Gas proposed natural gas pipeline project in San Bernardino County.
- Assistant Project Manager for the Wyoming-California Pipeline Company proposed pipeline project in Wyoming, Utah, Nevada, and southeastern California.

References for Ms. Guldman:

Mr. Peter Cross
U.S. Fish and Wildlife Service
3310 El Camino Avenue Suite 130
Sacramento CA 95821-6340
Voice: (916) 979-2725
Fax: (916) 979-2723
Email: peter_cross@smtp2.irm.r9.fws.gov

Ms. Dale K. Hoffman-Floerke
California Department of Water Resources
3251 S Street
Sacramento CA 95816
Voice: (916) 227-7530
Fax: (916) 227-7554
Email: dalehf@water.ca.gov

Ms. Gail Presley
California Department of Fish and Game
1416 Ninth Street Room 1341
Sacramento CA 95814
Voice: (916) 653-9384
Fax: (916) 653-2588
Email: GPRESLEY@hq.dfg.ca.gov

Dr. Rich will provide technical expertise and supervise technicians and other fisheries biologists assisting her with this project. She has:

- Conducted studies to assess the potential impacts of the proposed West Lathrop Specific Plan on fishery resources in the San Joaquin and adjacent rivers and sloughs, with particular emphasis on impacts to threatened and endangered species;
- Supervised fishery resource component of a U.S. Bureau of Reclamation Project associated with impacts of agricultural activities throughout the Central Valley, with particular emphasis on impacts to threatened and endangered species;
- Designed and conducted field and laboratory studies to determine the relationship between instream flows levels, water temperatures, and the growth and well-being of chinook salmon in the Central Valley;

CALFED Bay - Delta Program Proposal
1998 Category III

- Supervised studies on the requirements of chinook salmon, steelhead trout, American shad, and striped bass in the Central Valley;
- Designed and conducted fishery resource studies to assess impacts of water diversions on salmonid quality in the San Joaquin, Merced, Stanislaus, and Tuolumne rivers;
- Provided an analysis of all past, present, and proposed anadromous fish restoration projects in the Central Valley;
- Supervised monitoring studies on the impacts of highway construction on fishery resources;
- Conducted over 100 populations and habitat surveys; and
- Prepared trout and salmon enhancement and rehabilitation plans.

References for Dr. Rich:

Mr. William Loudermilk
California Department of Fish and Game
Region 4
1234 East Shaw Avenue
Fresno CA 93710
Voice: (209) 222-3761

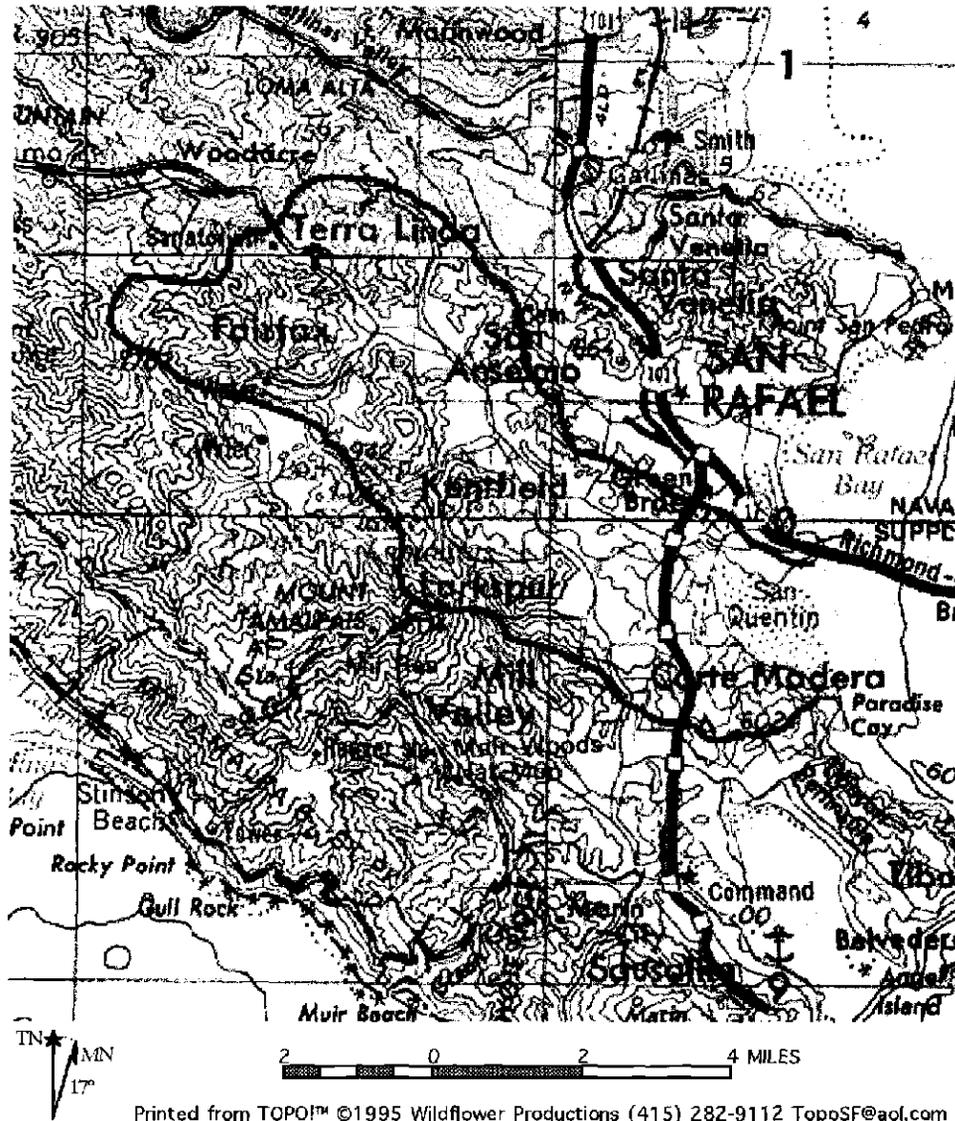
Mr. Phillip Sharpe
Montgomery Watson Americas, Inc.
777 Campus Commons Road, Suite 250
Sacramento CA 95825
Voice: (916) 924-8844

Mr. Ed Stewart
City and County of San Francisco
San Francisco Water Department
1000 El Camino Real
P.O. Box 730
Millbrae CA 94030
Voice: (415) 872-5933

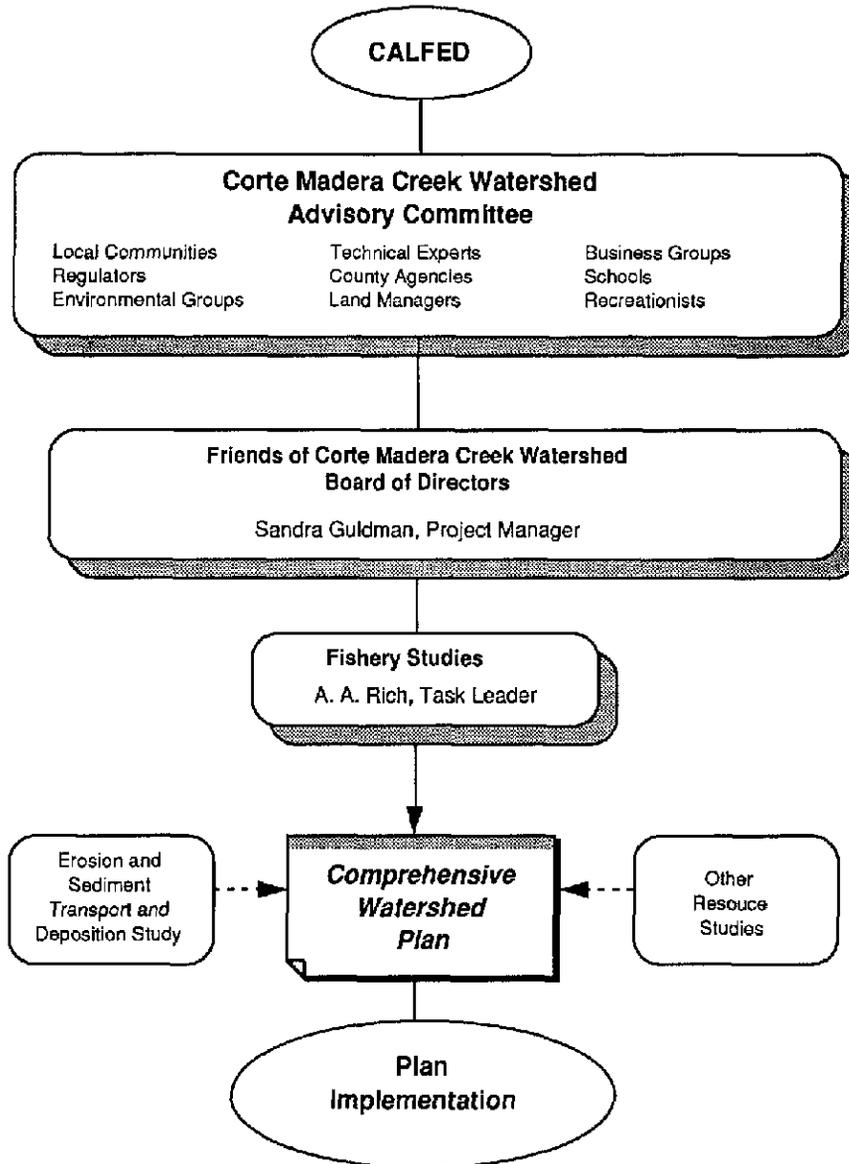
Part VII: Compliance with Standard Terms and Conditions

According to the Proposal Solicitation package, funding for Local Watershed Stewardship grants would be from federal sources. Standard Forms 424, 424A, and 424B are included as Attachment 3, in the event that funding is from the Department of the Interior. If funding is from the EPA, *Friends* is able to sign the appropriate documents.

Attachment 1: Map of Corte Madera Creek Watershed



Attachment 2: Organization Chart



*CALFED Bay - Delta Program Proposal
1998 Category III*

Attachment 3: Standard Forms 424, 424A, and 424B

Figure 1
Standard Form 424

OMB Approval No. 0348-0043

APPLICATION FOR
FEDERAL ASSISTANCE

1. TYPE OF SUBMISSION: Application <input type="checkbox"/> Construction <input type="checkbox"/> Construction <input checked="" type="checkbox"/> Non-Construction <input type="checkbox"/> Non-Construction		2. DATE SUBMITTED <u>7/1/98</u>	Applicant Identifier <u>N/A</u>
		3. DATE RECEIVED BY STATE <u>N/A</u>	State Application Identifier <u>N/A</u>
		4. DATE RECEIVED BY FEDERAL AGENCY	Federal Identifier
5. APPLICANT INFORMATION			
Legal Name: <u>Friends of Corte Madera Creek Watershed</u>		Organizational Unit:	
Address (give city, county, state, and zip code): <u>P.O. Box 415</u> <u>Larkspur CA 94977</u>		Name and telephone number of person to be contacted on matters involving this application (give area code): <u>Sandra Goldman</u> <u>(415) 456-5052</u>	
6. EMPLOYER IDENTIFICATION NUMBER (EIN): [] [] - [] [] [] [] [] []		7. TYPE OF APPLICANT: (enter appropriate letter in box) <input checked="" type="checkbox"/> N	
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) [] [] A. Increase Award B. Decrease Award C. Increase Duration D. Decrease Duration Other (specify):		A. State B. County C. Municipal D. Township E. Interstate F. Intermunicipal G. Special District H. Independent School Dist. I. State Controlled Institution of Higher Learning J. Private University K. Indian Tribe L. Individual M. Profit Organization N. Other (Specify) <u>Non-profit</u>	
10. CATALOG OF FEDERAL DOMESTIC ASSISTANCE NUMBER: TITLE <u>N/A</u>		9. NAME OF FEDERAL AGENCY	
12. AREAS AFFECTED BY PROJECT (Cities, Counties, States, etc.): <u>Marin County</u>		11. DESCRIPTIVE TITLE OF APPLICANT'S PROJECT: <u>Local Watershed Stewardship:</u> <u>Steelhead Trout Plan</u>	
13. PROPOSED PROJECT		14. CONGRESSIONAL DISTRICTS OF:	
Start Date: <u>2/1/99</u> Ending Date: <u>8/2000</u>	a. Applicant: <u>6th Dist.</u>	b. Project: <u>6th District</u>	
15. ESTIMATED FUNDING:		16. IS APPLICATION SUBJECT TO REVIEW BY STATE EXECUTIVE ORDER 12372 PROCESS?	
a. Federal	\$ <u>47,500⁰⁰</u>	a. YES. THIS PREAPPLICATION/APPLICATION WAS MADE AVAILABLE TO THE STATE EXECUTIVE ORDER 12372 PROCESS FOR REVIEW ON: DATE _____	
b. Applicant	\$ <u>23,500⁰⁰</u>	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	\$ <u>00⁰⁰</u>	17. IS THE APPLICANT DELINQUENT ON ANY FEDERAL DEBT? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If "Yes" attach an explanation)	
d. Local	\$ <u>23,500⁰⁰</u>		
e. Other	\$ <u>00⁰⁰</u>		
f. Program Income	\$ <u>00⁰⁰</u>		
g. TOTAL	\$ <u>94,500⁰⁰</u>		
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. Type Name of Authorized Representative <u>Sandra Goldman</u>		b. Title <u>Co-chairperson</u>	c. Telephone Number <u>(415) 456-5052</u>
d. Signature of Authorized Representative <u>Sandra Goldman</u>		e. Date Signed <u>7/1/98</u>	

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Standard Form 424 (REV. 1-82)
Prescribed by OMB Circular A-101

Figure 2
Standard Form 424A

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. Watershed Planning		\$	\$	\$ 47,500	\$ 47,000	\$ 94,500
2.						
3.						
4.						
5. Totals		\$	\$	\$ 47,500	\$ 47,000	\$ 94,500
SECTION B - BUDGET CATEGORIES						
6. Object Class Categories	GRANT PROGRAM, FUNCTION OR ACTIVITY					Total (8)
a. Personnel	(1)	(2)	(2)	(4)	(4)	
b. Fringe Benefits						
c. Travel						
d. Equipment						
e. Supplies						
f. Contractual						
g. Construction						
h. Other						
i. Total Direct Charges (sum of 6a-6h)						
j. Indirect Charges						
k. TOTALS (sum of 6i and 6j)						
7. Program Income						

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Prescribed by OMB Circular A-102

I-011152

I-011152

Figure 2
Standard Form 424A (cont'd.)

SECTION C - NON-FEDERAL RESOURCES					
(a) Grant Program	(b) Applicant	(c) State	(d) Other Sources	(e) TOTALS	
8. Watershed Planning	\$ 23,500	\$	\$ 23,500	\$ 47,000	
9.					
10.					
11.					
12. TOTAL (sum of lines 8 - 11)	\$	\$	\$	\$	
SECTION D - FORECASTED CASH NEEDS					
	Total for 1st Year	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
13. Federal	\$ 38,000	\$ 4,000	\$ 16,000	\$ 10,000	\$ 8,000
14. NonFederal	31,000	6,000	6,000	9,500	9,500
15. TOTAL (sum of lines 13 and 14)	\$ 69,000	\$ 10,000	\$ 22,000	\$ 19,500	\$ 17,500
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. Watershed Planning	\$ 25,500	\$	\$	\$	
17.					
18.					
19.					
20. TOTAL (sum of lines 16-19)	\$ 25,500	\$	\$	\$	
SECTION F - OTHER BUDGET INFORMATION					
21. Direct Charges:		22. Indirect Charges: None			
23. Remarks:					

Figure 3
Standard Form 424B

OMB Approval No. 0348-0040

ASSURANCES — NON-CONSTRUCTION PROGRAMS

Public reporting burden for this collection of information is estimated to average 15 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 (0348-0040), 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 cost) to ensure proper planning, management and completion of the project described in this application.
2. Will give the awarding agency, the Comptroller General of 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. 92-255), 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 nondiscrimination 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, as applicable, with 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.

Figure 3
Standard Form 424B (cont'd.)

9. Will comply, as applicable, with the provisions of the Davis-Bacon Act (40 U.S.C. §§276a to 276a - 7), 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. §§327-333), 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. 93-234) 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.
15. 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 <i>Sandra Goldman</i>	TITLE Co-chairperson
APPLICANT ORGANIZATION Friends of Corte Madera Creek Water-shed	DATE SUBMITTED July 1, 1998

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