

**i. Proposal number:#2001-J203 \***

**ii. Short proposal title .# The relationship between water temperature and steelhead trout growth and productivity in the Corte Madera Creek Watershed.\***

**APPLICABILITY TO CALFED ERP GOALS AND IMPLEMENTATION PLAN**

**1a1. Link to ERP Strategic Goals: What Strategic Goal(s) is /are addressed by this proposal? List the letter(s) of all that apply.**

- A. At-risk species**
- B. Rehabilitate natural processes**
- C. Maintain harvested species**
- D. Protect-restore functional habitats**
- E. Prevent non-native species and reduce impacts**
- F. Improve and maintain water quality# A., B., D. \***

**1a2. Describe the degree to which the proposal will contribute to the relevant goal. Quantify your assessment and identify the contribution to ERP targets, when possible.# The proposed research should strongly contribute to goal A especially with implications for achieving goals B and D. \***

**1b. Objectives: What Strategic Objective(s) is/are addressed by this proposal? List Objective (from the table of 32 objectives) and describe potential contribution to ERP Goals. Quantify your assessment, when possible.#**

Objective 1 of Goal 1 - though the Central Coast Steelhead ESU is not an "R" or "r" species, the information gained through this proposal would likely apply to the Central Valley Steelhead ESU which is an "R" species.

Objective 4 goal 2 - strong potential for contribution

Objective 2 goal 4 - potentially good contribution based on results of identifying the best habitats for thermal control. \*

**1c. Restoration Actions: Does the proposal address a Restoration Action identified in Section 3.5 of the PSP? Identify the action and describe how well the proposed action relates to the identified Restoration Action.#**

Yes. Fishery Monitoring Assessment and Research. Very well. Research will be done in situ so that results may be used in all similar watersheds. \*

**1d. Stage 1 Actions: Is the proposal linked directly, indirectly or not linked to proposed**

**Stage 1 Actions? If linked, describe how the proposal will contribute to ERP actions during**

**Stage 1.# Stage 1 action #8. Targeted research will strongly contribute to this action. \***

**1e. MSCS: Describe how the proposal is linked to the Multi-Species Conservation Strategy and if it's consistent with the MSCS Conservation measures. Identify the species addressed and whether the proposal will "recover", "contribute to recovery" or "maintain" each species.#** As stated above, this proposal will most likely result in information that can be used in similar watersheds to contribute to the recovery of salmonids, all "R" species in the MSCS. \*

**1f. Information Richness/Adaptive Probing related to the proposal: Describe the degree to which the proposal provides information to resolve one of the 12 scientific uncertainties (Section 3.3 of the PSP), and whether the proposal offers a prudent approach to answer these uncertainties.#** Proposal will look at cause and effect of restoration actions within the watershed which will include how flow regimes affect ambient water temperatures and how those temperatures effect the systems productivity. It offers a prudent approach. \*

**1g. Summarize comments from section 1a through 1f related to applicability to CALFED goals and priorities. Identify the strengths and weaknesses of the proposal, highlighting the applicability of the proposed project to CALFED and CVPIA goals and priorities. Focus on aspects of the proposal that may be important to later stages in the project review and selection process.#** The proposed project will provide a field-oriented approach to assess how young steelhead trout respond to ambient water temperatures. The results of this information can then be used to identify cause and effect type restoration actions within the watershed; to identify what types of habitat provide the best thermal conditions; to determine whether there is a difference in thermal requirements between the anadromous steelhead and the resident rainbow trout; and as a basis for further field-oriented thermal bioenergetics research on this and other watersheds within the Bay-Delta ecosystem. \*

#### **APPLICABILITY TO CVPIA PRIORITIES**

**1i. Describe the expected contribution to natural production of anadromous fish. Specifically identify the species and races of anadromous fish that are expected to benefit from the project, the expected magnitude of the contribution to natural production for each species and race of anadromous fish, the certainty of the expected benefits, and the immediacy and duration of the expected contribution. Provide quantitative support where available (for example, expected increases in population indices, cohort replacement rates, or reductions in mortality rates).#** This project will not directly contribute to increasing the natural production of anadromous fish.

This study will attempt to assess how young steelhead respond to ambient water temperatures in the Corte Madera Creek Watershed. Information from the project could then be used to identify what types of habitat provide the best thermal conditions for juvenile steelhead and rainbow trout. This is not likely to have direct applicability to Central Valley steelhead stocks. The proposal also states that this study will provide a basis for further field-oriented thermal

bioenergetics research on this and other watersheds within the Bay-Delta.\*

**1j. List the threatened or endangered species that are expected to benefit from the project. Specifically identify the status of the species and races of anadromous fish that are expected to benefit from the project, any other special-status species that are expected to benefit, and the ecological community or multiple-species benefits that are expected to occur as a result of implementing the project.**# Central Valley steelhead which are listed as threatened could potentially benefit from the information gained from the study but because this study focuses on fish from the Central Coast ESU and Central Valley steelhead are from the Central Valley ESU, this information could have limited applicability.\*

**1k. Identify if and describe how the project protects and restores natural channel and riparian habitat values. Specifically address whether the project protects and restores natural channel and riparian habitat values, whether the project promotes natural processes, and the immediacy and duration of benefits to natural channel and riparian habitat values.**# The project does not protect or restore natural channels or riparian habitat. The project will identify what types of habitats provide the best thermal conditions for steelhead, which could lead to specific watershed remedies to help maintain suitable thermal conditions for this steelhead stock. Depending on action taken this could lead to actions that support natural channel and habitat values.\*

**1l. Identify if and how the project contributes to efforts to modify CVP operations. Identify the effort(s) to modify CVP operations to which the proposed project would contribute, if applicable. Efforts to modify CVP operations include modifications to provide flows of suitable quality, quantity, and timing to protect all life stages of anadromous fish as directed by Section 3406 (b)(1)(B) of the CVPIA, including flows provided through management of water dedicated under Section 3406(b)(2) and water acquired pursuant to Section 3406(b)(3).**# The project would not contribute to efforts to modify CVP operations.\*

**1m. Identify if and how the project contributes to implementation of the supporting measures in the CVPIA. Identify the supporting measure(s) to which the proposed project would contribute, if applicable. Supporting measures include the Water Acquisition Program, the Comprehensive Assessment and Monitoring Program, the Anadromous Fish Screen Program, and others.**# The project does not fall within the geographic boundaries of the Central Valley Project Improvement Act.\*

**1n. Summarize comments from section 1i through 1m related to applicability to CVPIA priorities (if applicable, identify the CVPIA program appropriate to consider as the source of CVPIA funding [for example, the Anadromous Fish Restoration Program, Habitat Restoration Program, Water Acquisition Program, Tracy Pumping Plant Mitigation Program, Clear Creek Restoration Program, Comprehensive Assessment and Monitoring Program, and Anadromous Fish Screen Program]). Identify the strengths and weaknesses of the proposal, highlighting the applicability of the proposed project to CALFED and CVPIA goals and priorities. Focus on aspects of the proposal that may be important to later stages in the project review and selection process.** # This project will not directly contribute to increasing the natural production of Central Valley anadromous fish, but the information gained from the study could possibly be used to identify what types of habitat provide the best thermal conditions for juvenile steelhead and rainbow trout in the Corte Madera Creek Watershed. (The Corte Madera Creek Watershed drains into San Francisco Bay). Since the project does not fall within the geographic boundaries of the Central Valley Project Improvement Act it is not eligible for CVPIA funding.\*

#### **RELATIONSHIP TO OTHER ECOSYSTEM RESTORATION PROJECTS**

**2a. Did the applicant explain how the proposed project relates to other past and future ecosystem restoration projects, as required on page 57 in the PSP? Type in yes or no.** #yes.\*

**2b. Based on the information presented in the proposal and on other information on restoration projects available to CALFED and CVPIA staff, describe how the proposed project complements other ecosystem restoration projects, including CALFED and CVPIA. Identify projects or types of projects that the proposed project would complement, now or in the future. Identify source of information.** #This study is part of an ongoing effort to improve conditions in the Corte Madera Creek Watershed, addressing critical needs for Steelhead trout, identifying potential restoration actions both here and in other Bay-Delta Watershed areas, and providing information on variations in temperature and fish populations in the Watershed. Source: Proposal.\*

#### **RESULTS AND PROGRESS ON PREVIOUSLY FUNDED CALFED AND CVPIA PROJECTS, INCLUDING REQUESTS FOR NEXT-PHASE FUNDING**

**3a1. Based on the information presented in the proposal and on project reports and data available to CALFED and CVPIA staff, has the applicant previously received CALFED or CVPIA funding? Type CALFED, CVPIA, both, or none** #CALFED.\*

**3a2. If the answer is yes, list the project number(s), project name(s) and whether CALFED or CVPIA funding. If the answer is none, move on to item 4.** # 98E07 - Local Watershed Stewardship: Steelhead trout plan for the Corte Madera Creek Watershed.\*

**3b1. Based on the information presented in the proposal and on project reports available to CALFED and CVPIA staff, did the applicant accurately state the current status of the project(s) and the progress and accomplishments of the project(s) to date? Type yes or no.#yes.\***

**3b2. If the answer is no, identify the inaccuracies:#**

**3c1. Has the progress to date been satisfactory? Type yes or no.#yes.\***

**3c2. Please provide detailed comments in support of your answer, including source of information (proposal or other source):#Proposal provided very good description for new work, but didn't elaborate on status of the Trout Plan. Trout Plan was completed in July 2000. Source: Proposal, quarterly reports.\* REQUESTS FOR NEXT-PHASE FUNDING**

**3d1. Is the applicant requesting next-phase funding? Type yes or no.#yes.\***

**3d2. If the answer is yes, list previous-phase project number(s) here. If the answer is no, move on to item 4.#98E07.\***

**3e1. Does the proposal contain a 2-page summary, as required on pages 57 and 58 of the PSP? Type yes or no.#no.\***

**3e2. Based on the information presented in the summary and on project reports available to CALFED and CVPIA staff, is the project ready for next-phase funding? Type yes or no.#yes.\***

**3e3. Please provide detailed comments in support of your answers, including source of information (proposal or other source):#First phase has been completed. Source: Proposal, quarterly reports\***

#### **LOCAL INVOLVEMENT**

**4a. Does the proposal describe a plan for public outreach, as required on page 61 of the PSP? Type yes or no.# No\***

**4b. Based on the information in the proposal, highlight outstanding issues related to support or opposition for the project by local entities including watershed groups and local governments, and the expected magnitude of any potential third-party impacts.# The proposal states that the project has "full support of the community".\***

#### **ENVIRONMENTAL COMPLIANCE**

**4d. List any potential environmental compliance or access issues as identified in the PSP checklists.# Not all research is exempt under CEQA. Electrofishing is not exempt under CEQA. Steelhead is a threatened species and if they will be electrofishing, there is a possibility of**

taking other threatened fish species. Although, he has a scientific collecting permit, and incidental take statement will be needed for steelhead.\*

**4e. Specifically highlight and comment on any regulatory issues listed above that may prevent the project from meeting the projected timeline.#** Project proponent will need to comply with CEQA and ESA before any research can be conducted.\*

#### **COST**

**5a. Does the proposal include a detailed budget for each year of requested support? Type yes or no.#** yes\*

**5b. Does the proposal include a detailed budget for each task identified? Type yes or no.#** yes\*

**5c. Is the overhead clearly identified? Type yes or no.#**no\*

**5d. Are project management costs clearly identified? Type yes or no.#** yes\*

**5e. Please provide detailed comments in support of your answers to questions 5a - 5d.#** Majority of proposed costs are a consulting service contract proposed as lump-sum amounts by task with no further detail.\*

#### **COST SHARING**

**6a. Does the proposal contain cost-sharing? Type yes or no.#** yes\*

**6b. Are applicants specifically requesting either state or federal cost share dollars? Type state, federal, or doesn't matter.#** doesn't matter\*

**6c. List cost share given in proposal and note whether listed cost share is identified (in hand) or proposed.**

**6c1. In-kind:#** \$47,000 proposed\*

**6c2. Matching funds:#** \$0\*

**6c3. Show percentage that cost sharing is of total amount of funding**

**requested along with calculation.#** 50% or  $47,000/94,400=.497881355^*$

**6d. Please provide detailed comments in support of your answers to questions  
6a - 6c3.#** n/a\*