

4.5 PSP Cover Sheet (Attach to the front of each proposal)

99B-133

Proposal Title: **Lower Gasburg Creek Sediment Control and Restoration**
Applicant Name: California Department of Fish and Game (DFG)
Mailing Address: 1234 East Shaw Avenue, Fresno CA 93710
Telephone: (559) 243-4005
Fax: (559) 243-4022
Email: 103506.545@compuserve.com

Amount of funding requested: **\$175,901.96** over 3 years

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

- | | |
|--|---|
| <input type="checkbox"/> Fish Passage/Fish Screens | <input type="checkbox"/> Introduced Species |
| <input checked="" type="checkbox"/> Habitat Restoration | <input type="checkbox"/> Fish Management/Hatchery |
| <input type="checkbox"/> Local Watershed Stewardship | <input type="checkbox"/> Environmental Education |
| <input type="checkbox"/> Water Quality | |

Does the proposal address a specified Focused Action? yes _____ no What county or counties is the project located in? Stanislaus County

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

- | | |
|---|---|
| <input type="checkbox"/> Sacramento River Mainstem | <input type="checkbox"/> East Side Trib: _____ |
| <input type="checkbox"/> Sacramento Trib: _____ | <input type="checkbox"/> Suisun Marsh and Bay |
| <input type="checkbox"/> San Joaquin River Mainstem | <input type="checkbox"/> North Bay/South Bay: |
| <input checked="" type="checkbox"/> San Joaquin Trib: <u>Tuolumne River</u> | <input type="checkbox"/> Landscape (entire Bay-Delta watershed) |
| <input type="checkbox"/> Delta: _____ | <input type="checkbox"/> Other: _____ |

Indicate the primary species which the proposal addresses (check all that apply):

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

Specify the ERP strategic objective and target (s) that the project addresses. Include page numbers from January 1999 version of ERP Volume I and II:

DSJR Stage I Action: Tuolumne River Action 9: Page 89, vol.II

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

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

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

- | | |
|------------|--|
| Planning | <input checked="" type="checkbox"/> Implementation |
| Monitoring | Education |
| 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 the 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 2.4) 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.

Tim Heyue

Printed name of applicant

A. J. [unclear] For T.H.

Signature of applicant

Lower Gasburg Creek Sediment Control and Restoration

I. Executive Summary

Applicant: California Department of Fish and Game (DFG)
San Joaquin Valley and Southern Sierra Region (SJVSSR)
1234 East Shaw Avenue
Fresno, California 93710

Project Description and Primary Biological/Ecological Objectives

The purpose of the project is to reduce sediment transport from Gasburg Creek to the Tuolumne River by defining and treating them, and defining an appropriate program to manage sediments originating from the upper watershed area. The addition of coarse sediment, through other projects (funded and proposed), will immediately increase coarse sediment storage (riffles and bars) in the Tuolumne River. This project will work to ensure that an unnaturally high load of fines originating from Gasburg Creek do not infiltrate those gravel additions and therefore allow those projects to improve chinook salmon, steelhead and rainbow trout spawning and rearing habitat. The primary focus of the tasks will be sediment detention basins and regrading/vegetation of disturbed areas at the site.

The project has three main components. The first component is the removal of fine sediments deposited immediately below a culvert under the Modesto Irrigation District culvert. This site now serves as an interim sediment retention basin at the upstream end of the project area in lower Gasburg Creek. The second component is cleanup of asphalt, concrete and old fencing that are scattered throughout the property adjacent to the creek. The stream bank would be resloped on approximately 300 yards of the creek and the entire section revegetated. The final project component extends beyond the lower half mile of creek to the rest of the remainder of Gasburg Creek basin. A reconnaissance survey of the entire creek basin would identify all potential sources of fine sediment and define alternatives for restoration of more natural sediment loads.

The project site is entirely on State land, except for the contracted watershed survey. Some of the project will occur immediately adjacent to land owned by the Modesto Irrigation District (MID) and a private landowner, the Reaves family. Appropriate amounts of gravel will be transported to the site in end-dump trucks. Materials used to restore the creek channel or floodplain will be obtained on-site or from nearby commercial sources. This project would be completed in December 2000. Pre- and post- project monitoring and evaluation of the project would continue for two years following that.

Justification for Project and Funding by CALFED

Construction of La Grange Dam in 1893 ended coarse sediment supply from the Tuolumne River watershed upstream of the town of La Grange. Since its construction, sediment transported in the river during high flows have come from the bed itself or from limited floodplain deposits during events of channel migration. Small creeks entering the river, such as Gasburg Creek, can carry high fine sediment loads that infiltrates the spawning gravel. This deterioration of salmonid spawning habitat has been identified in the CALFED process as a

primary stressor of salmon and steelhead trout. Restoring the supply and quality of gravel below dams in anadromous fish nursery areas is a critical component of salmonid restoration efforts. Long-term maintenance of these gravels is necessary. This project, and treatments identified for subsequent action, would eliminate one source of fine sediment and improve degraded spawning habitat in the upper reach of the designated spawning area (Fish and Game Code 1505) heavily used by fall-run chinook salmon. Resident fishes, steelhead/rainbow trout and the aquatic and riparian biological community would also benefit.

Budget Costs and Third Party Impacts

Funding requested totals \$175,901.96. The majority of cost would be incurred from contracts for engineering, excavating and transporting material removed from site. Based on similar projects completed in the recent past, the estimated purchase price for the material transported to the project site is \$15/ton. The reconnaissance evaluation of the upper watershed area would be completed through contract(s) with the California State University or University of California system.

No third party impacts are expected.

Applicants Qualifications

The DFG SJVSSR's anadromous fisheries staff have worked closely with various other state, federal and private personnel, to construct and repair chinook salmon spawning, rearing and predator pond isolation projects in the San Joaquin River Basin. The DFG has the clerical, fiscal and contractual personnel necessary to support the biological and technical experts administering this project. The DFG have also taken into consideration information and recommendations obtained from the watershed analysis being conducted by the Tuolumne River Technical Advisory Committee (contracted consultants) and other sources to complete this project. DFG currently manages the state-owned land at the project site pursuant to a Memorandum of Understanding with the Department of Water Resources.

Monitoring and Data Evaluation

Three physical monitoring techniques would be used in the lower project area: cross section surveys, pebble counts and bulk sampling. Cross sections would be placed on the creek below and in the interim sediment basin. There would also be cross sections in the Tuolumne River below the confluence with the creek. These cross sections would document changes in morphology in the channels below the interim sediment basin. Pebble counts and bulk sampling would qualify and confirm reduction in fine sediments. Transect survey is the biological monitoring technique that would be used. Transects would be surveyed for plant species in revegetated areas. Transects would also be surveyed for birds and amphibians to document seasonal riparian-dependent species use in the area. Cursory bedload/suspended sediment load measurements during rainstorm events would be included in the reconnaissance evaluation of sediment discharge from the upper watershed.

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

This project is supported by numerous individuals, agencies and the Tuolumne

River Technical Advisory Committee.

Lower Gasburg Creek Sediment Control and Restoration

II. Title Page

Applicant California Department of Fish and Game (DFG)
San Joaquin Valley and Southern Sierra Region (SJVSSR)
1234 East Shaw Avenue
Fresno, California 93710

Type Organization Public Agency

Contact Person Mr. Tim Heyne
1234 East Shaw Avenue
Fresno, California 93710

Telephone: (209) 853-2533
Fax: (209) 853-9017
E-mail: TimHeyne@compuserve.com

Collaborators Tuolumne River Technical Advisory Committee (TRTAC),
which includes the Turlock and Modesto Irrigation Districts,
City and County of San Francisco, US Fish and Wildlife
Service and several environmental groups. McBain and
Trush Inc. and Stillwater Sciences, Consultants to the
TRTAC.
California Department of Water Resources

Cost Sharing California Department of Fish and Game (DFG) will
provide some of the necessary equipment and
provide permanent staff to supervise construction,
and assist with surveying and monitoring
components.

Lower Gasburg Creek Sediment Control and Restoration

III. Project Description

Geographical Location And Description

This project is located in the Tuolumne River watershed, on Gasburg Creek, near the town of La Grange in Stanislaus County (Figure 1). The project is approximately 30 miles east of Modesto on Highway 132. The Tuolumne River has several dams operated by the City and County of San Francisco (CCSF) in the upper watershed, and two dams operated by the Turlock and Modesto Irrigation Districts further downstream.

The lowest dam in this watershed is La Grange Dam, located at river mile 52.1. Since its construction in 1893, the La Grange Dam has blocked or severely limited upstream salmonid migration and gravel recruitment from the upper watershed. Restoration of natural sediment processes has become a focus of ecosystem restoration efforts in the Lower Tuolumne River. Gasburg Creek, with a drainage area of 3.5 square miles (Figure 2), enters the Tuolumne River 1.5 miles downstream of the La Grange Dam and is considered a major contributor of fine sediment into the remnant of spawning area that is still useable on the Tuolumne River.

Project Description and Approach

The purpose of the project is to reduce sediment transport from lower Gasburg Creek to the Tuolumne River and define an appropriate program to manage sediments originating from the upper watershed area. The lower half mile of the creek after it emerges from a culvert under the Modesto Irrigation District's main canal is the primary focus of restoration in this proposal. The project has three main components. The first component is the removal of fine sediments deposited below this culvert to form an interim sediment retention basin at the upstream end of the project area. The second component is the cleanup of asphalt, concrete and old fencing that are scattered throughout the property adjacent to the lower creek area. The stream banks there would be resloped along approximately 300 yards of the creek and the entire section would be revegetated. The final project component extends upstream of the lower half mile of creek to the remainder of the Gasburg Creek basin. A reconnaissance evaluation of the entire creek basin would be to identify all potential sources of fine sediment and potential for restoration. Cursory bedload/suspended sediment load sampling during rainfall events would be included to assess the relative significance of sediment loads from the upper watershed area.

Following this project, projects would be developed to repair identified sources of erosion and manage reasonable sediment loads from this drainage. This work would continue until the eventual removal of the interim sediment basin when it is no longer needed. DFG would continue to maintain the vegetation in the area pursuant to the existing Memorandum of Understanding with the Department of

Water Resources.

Proposed Scope of Work (Figure 3)

Component 1. Two hundred feet downstream from the outlet of a culvert under an unused Modesto Irrigation District canal, the existing creek bed would form an interim sediment retention basin. Engineering of this basin would be done as part of the contract. Excavation of some native material and some waste piles of asphalt and concrete would be required above and adjacent to this interim basin. The interim sediment basin would be approximately 200 feet long, 70 feet wide and 5 feet deep.

Component 2. Three hundred feet further downstream a large culvert may be removed from the creek and the road will be pulled back 70 to 100 feet. A rock weir may be placed in the creek to prevent a headcut that would form due to a two to three foot drop created by the culvert. Just upstream of the weir and on the east bank the land will be modified to avoid discharge of very fine sediments into the creek originating from an active sand mining operation.

A scour pool below the culvert may be filled with gravel. Remnants of an old road in the creek bed below the culvert will be removed along with pieces of asphalt and concrete that are scattered throughout the restoration site. The creek banks in the area where the old road is removed will be resloped and vegetated to stop erosion on these disturbed surfaces. Old fencing will be removed from some areas and some exotic plants will be removed. Vegetation will be planted in several locations in the project area to enhance existing riparian and wetland areas as well as vegetating some disturbed portions of the creek. The work under this component will extend up to 500 feet on both sides of the creek. Fencing will be built on both sides of the creek in the bottom half of the project site to exclude cattle that graze on adjacent lands. These conceptual designs may be modified consistent with cogent engineering and permit requirements.

Component 3. A watershed evaluation will be performed on the watershed above the project area. It has a drainage area of approximately 3.5 square miles. The evaluation would collect data on the basic hydrological data (rainfall, estimated flows etc.) and identify and prioritize erosion sites. cursory bedload/suspended sediment load sampling would be completed during rainfall event. Treatment priority will be based on the extent of erosion from the site and the ease and costs of controlling the erosion. This would allow planning for future projects that could allow the eventual removal of the interim sediment basin. Landowner approval and responsibilities also affect treatment priority or feasibility.

The project area may be considered by DFG as a potential site to reintroduce red-legged frogs in the future. Due to the close proximity of DFG personnel, it would be possible to monitor the population intensively (requiring removal of bullfrogs). Restored channel functions would improve these options.

To support this construction project, DFG personnel will obtain all necessary environmental documentation, construction permits and administrative contracts. Gravel will be purchased and transported to the site under an appropriate State contract as will all excavation and hauling. Physical monitoring of the project will be completed by DFG personnel via an interagency agreement and under the supervision of the DWR. Vegetation and bedload/suspended load monitoring will be completed by DFG personnel. The following summarizes the various tasks in order to complete this project.

Specific Tasks to be Completed.

Task 1. Obtain all necessary construction permits and CEQA Documentation as well as bid packages/contracts necessary to purchase construction material and hire heavy equipment operators. Obtain interagency agreement with Department of Water Resources (DWR)
Completed by 1 April 2000
Done by DFG Personnel

The DWR agreement would define the engineering and monitoring responsibilities to be completed by DWR staff (Kevin Faulkenberry). By 1 December 1999, submit the following permit applications and CEQA Negative Declaration to appropriate agencies:

- 1) DFG 1600 Agreement
- 2) State Lands Permit
- 3) Bureau of Reclamation
- 4) USCOE Nationwide Permit
- 5) RWQCB
- 6) CEQA
- 7) Stanislaus County
- 8) Local landowners (Mr. and Mrs. Bill Reaves, Stanislaus County Parks Department, Modesto Irrigation District)

By 1 December 1999, develop design of the sediment basin the restored floodplain and the monitoring plan for the project and prepare draft interagency agreement for review.

Deliverables to CALFED:

Copy of monitoring plan.
Copy of basin engineering designs.
Copy of interagency agreement between DFG and DWR.
Copies of all permits necessary to complete project.
Copy of CEQA documentation necessary to complete project.
Copy of bid packages.
Copy of contracts.

Task 2. Construct upper sediment basin.

Completed by 30 September 2000.

Done by Contractors.

Deliverables to CALFED:

A written summary describing the project and a short video showing the project construction.

Copy of preproject Monitoring Reports

Task 3. Remove culvert, reslope banks and construct weir and sediment basin.

Completed by 30 September 2000.

Done by Contractors.

Deliverables to CALFED:

A written summary (including final costs) and a short video showing the project construction.

Copy of preproject Monitoring Reports

Task 4. General cleanup and revegetation of site. Build 1 mile of fencing.

Completed by 31 October 2000.

Done by DFG Personnel.

Deliverables to CALFED:

A written summary (including final costs) and a short video showing the project construction.

Task 5. Postproject (as built) physical monitoring by DFG and Department of Water Resources (DWR) as well as biological monitoring by DFG.

Completed by 1 December 2000.

Done by DFG Personnel; in conjunction with Kevin Faulkenberry and DWR Administration.

Deliverables to CALFED:

Copy of postproject Monitoring Reports

Physical Monitoring Reports.

Vegetation Monitoring Reports.

Bird and Amphibian Monitoring Reports.

Task 6. Upper creek watershed evaluation.

Completed by 1 May 2000.

Done by Contractor.

Deliverables to CALFED:

An evaluation report including identification of alternative treatment and summaries of the data from the watershed.

Lower Gasburg Creek Sediment Control and Restoration

IV. Ecological/Biological Benefits

Ecological/Biological Benefits

Construction of La Grange Dam in 1893 at river mile 52 permanently ended coarse sediment recruitment (gravels/cobbles) from the Tuolumne River watershed upstream of the town of La Grange. The few tributaries entering the Tuolumne River downstream of La Grange contribute virtually no coarse sediment and input fine sediment. The coarse sediment supply critical for salmonid habitat has been eliminated, and the fine sediment supply that is damaging to salmonid habitat has increased relative to mainstem flows.

This, combined with various other stressors, has helped reduce anadromous salmonid productivity. The proposed project would reduce fine sediment input into the upper anadromous salmonid habitat on the Tuolumne River. It would also recreate riparian habitats important to many amphibians and birds. And, as this creek is adjacent to the Tuolumne River Restoration Center, a restored creek would add to the educational opportunity planned to occur there.

The primary goals of this project are:

- improve the quality and quantity of spawning habitat for chinook salmon (and other salmonids) on the Tuolumne River in the upper portion of the designated salmon spawning area by reducing fine sediment loading from Gasburg Creek.
- restore and maintain improved increase riparian habitat along the tributary creek.

Additional objectives of the program are:

- provide habitat for aquatic riparian-dependent species in a tributary creek.
- provide additional educational opportunity to local schools.

Linkages

This project is part of an interagency sediment management plan recommended by the Tuolumne River Technical Advisory Committee. The management plan development is in progress but the basic components have been identified. Coarse sediment is being managed by other projects both in progress and proposed. Fine sediment loading below the dam has not been the focus of any projects so far but is at least equal in importance to the supply and maintenance of coarse gravel. Gasburg Creek is one of the focuses of the proposed sediment management plan.

CALFED has already approved funding for DFG to complete Phase I of a coarse sediment infusion program below La Grange Dam. The initially funded project will be constructed in August 1999. At this time, 11,000 ton of spawning sized gravels will be placed into the Tuolumne River immediately downstream of the Old La Grange Bridge immediately in the vicinity of the Gasburg Creek confluence. Reducing fine sediment input from Gasburg Creek would protect to some degree the gravels that are presently being added.

Riparian vegetation has been greatly reduced in the Central Valley of California. This project would increase the amount and quality of riparian vegetation in the Tuolumne River basin. Additional projects funded by CALFED and AFRP and managed by the Turlock Irrigation District are already in construction that will increase the amount of riparian vegetation further downstream.

This project specifically addresses the following CALFED actions and targets:

Strategic Plan for the Ecosystem Restoration
Tuolumne River Stage 1 Actions

Action 8 - page 89

Explore actions to reduce ambient water temperatures, including increasing flows by purchasing water from willing sellers or developing new water supplies, as well as protecting and restoring riparian habitat.

Action 9 - page 89

Reduce the load of fine sediments introduced to the river channel by reducing erosion rates in the watershed and by constructing sedimentation basins.

Ecosystem Restoration Plan Vol. II - Ecological Management Zone Visions
East San Joaquin Basin Ecological Management Zone - page 435

Coarse Sediment Supply

Stage 1 Action

Reduce the load of fine sediments introduced into the Tuolumne River channel by reducing erosion rates in the watershed and by constructing sediment detention basins.

Ecosystem Restoration Plan Vol. II - Ecological Management Zone Visions
East San Joaquin Basin Ecological Management Zone - page 439

Riparian and Riverine Aquatic Habitat

Target 1

Provide conditions for riparian vegetation growth along sections of rivers in the East San Joaquin Basin Ecological Management Zone.

System-Wide Ecosystem Benefits

This project would add to the continuity of riparian vegetation along the Tuolumne River corridor, a function of the river corridor that has been greatly impaired in recent times. Riparian dependent species are at very low numbers in many cases and increases in their numbers that result from increases in the extent of riparian vegetation will have cascading effects on the species that

depend on the adjacent aquatic habitats and the upland habitats. Improvements in gravel quality will not only improve the spawning conditions for salmon, but will improve production of some aquatic invertebrates as well. Other species that prey on salmon such as the river otter, herons, egrets, belted kingfisher and several fish species will be increased in number if the salmon numbers are increased.

Compatibility with Non-Ecosystem Objectives

This project provides benefits to the CALFED water quality objectives and should have no conflicts with other CALFED objectives. The benefits to the water quality objectives will come from the wetlands that are developed in the project filtering water that is coming off grazed lands and which will therefore have some level of animal waste contamination.

V. Technical Feasibility and Timing

DFG personnel have performed initial biological field surveys for the gravel introduction project immediately below the Old La Grange Bridge (Phase 1). Much of the regional information from that project could be used to obtain the permits for this project. Permitting would be completed by DFG employees. A Negative Declaration is the appropriate CEQA documentation. Local DFG staff have completed several similar projects and the project would benefit from that experience.

The land is owned by the State of California (DWR) and with their support is easily accessible. No situations are expected to adversely impact the scheduling or implementability of this project. Administrative work (permitting, contracts and purchase orders) would be started as soon as funds are appropriated. Project construction would be completed in the fall of 2000, with two additional years of monitoring and enhancement of the vegetation.

Lower Gasburg Creek Sediment Control and Restoration

VI. Monitoring and Data Collection Methodology

Objectives:

The primary goals of this project are:

- to improve the quality of chinook salmon spawning habitat of the Tuolumne River in the upper portion of the designated salmon spawning area.

Hypothesis: Spawning areas in the Tuolumne River below the project site will have a lower percentage of fines after the project is completed.

Monitoring: Cross sectional and longitudinal profile surveys, pebble counts and bulk sampling at the same sites as those used for the immediately adjacent gravel introduction project, above and below gravel introduction sites and at a control site.

Data evaluation: Comparison of baseline conditions at all transects with conditions one and two years later (pre- vs. post project conditions). Compare with chinook salmon Habitat Suitability Criteria.

Monitoring: Cross sectional and longitudinal profile surveys at appropriate transects within the creek.

Data evaluation: Comparison of baseline conditions with as-built conditions (pre- vs. post project conditions).

Hypothesis: Amount of fines in the creek below the interim sediment basin will be reduced.

Monitoring: Cross sectional and longitudinal profile surveys at appropriate transects. Pebble counts and bulk sampling at these transects.

Data evaluation: Comparison of baseline conditions with conditions one and two years later (pre- vs. post project conditions).

Hypothesis: The interim sediment basin captures fine sediment loads from the watershed upstream of the Modesto Irrigation District canal.

Monitoring: Cross sectional and longitudinal profile surveys at appropriate transects in the interim sediment basin. A few bulk samples will be analyzed to determine the sizes of material entering the basin.

Data evaluation: Comparison of baseline conditions (as built) with conditions one and two years later (pre- vs. post project conditions). DFG will continue monitoring this basin after this time at their cost.

- increase riparian habitat.

Hypothesis: Plantings will increase density of riparian plants.

Monitoring: Permanent transects will be surveyed for at least three years postproject.

Data evaluation: Comparison of baseline conditions with conditions one and two years later (pre- vs. post project conditions).

Hypothesis: The number of riparian dependent species using the Gasburg Creek corridor will increase.

Monitoring: Seasonal surveys for birds and amphibians will be performed at several transects in the project area for three years postproject.

Data evaluation: Comparison of baseline conditions with conditions one and two years later (pre- vs. post project conditions).

Lower Gasburg Creek Sediment Control and Restoration

VII. Local Involvement

Local interest and TRTAC members are interested in the development and implementation of a sediment management plan. The plan itself is the subject of a separate proposal being submitted to CALFED. This project is one of those being considered most essential to fine sediment management in the upper chinook spawning area by the members of TRTAC. This project will be referenced in the sediment management plan proposal and is already mentioned in a Habitat Management Plan that was developed by TRTAC consultants.

The following agencies and landowners have been notified concerning our intentions for this project and letters of notification or tentative approval are attached.

Stanislaus County Parks Department
Modesto Irrigation District
Mr. and Mrs. Bill Reaves (local landowner)
Tuolumne River Technical Advisory Committee

Lower Gasburg Creek Sediment Control and Restoration

VIII. Cost

The following estimated costs are associated with this project.

	Direct Labor Hours	Direct Salary Benefits	Service Contracts	Material	Misc.	Subtotal	Overhead @ 17.2%	TOTAL
Task 1	320 AFB 160 OF 2 160 Temp.	(10,700)* (3,192)* \$1,600	DWR \$30,000		Permit Fees \$3,600	\$35,200.00	\$4,334.40	\$29,534.40
Task 2			Dozer and Excavator 5,250	\$7,300		\$12,550.00	\$2,158.60	\$14,708.60
Task 3			Dozer and Excavator 6,000	\$7,500		\$13,500.00	\$2,322.00	\$15,822.00
Task 4	320 FHA	(1,540)*	Hauling and Excavator 24,750 Fencing 15,000			\$41,290.00	\$7,101.88	\$48,391.88
Task 5	160 HS 320 FHA 1,000 Temp.	(4,175)* (6,162)* \$10,000	Hauling and Excavator \$20,400	\$5,000		\$35,400.00	\$6,088.80	\$41,488.80
Task 6			\$15,000			\$15,000.00	\$2,580.00	\$17,580.00
Contingency @ 5%					\$7,936.78			\$8,376.28
TOTAL:		\$11,600	\$106,400	\$19,800	\$11,536.78	\$85,279.00		\$175,901.96

AFB - Associate Fishery Biologist

OF 2- Office Assistant

HS- Habitat Specialist

FHA-Fish Habitat Assistant

* in-kind: not added into total

The following identifies the estimated budget for each task on a quarterly basis. Contingency funds (\$7,937) are not included here.

Task	Quarterly Budget Oct-Dec 1999	Quarterly Budget Jan-Mar 2000	Quarterly Budget Apr-Jun 2000	Quarterly Budget Jul-Sept 2000	Quarterly Budget Oct-Dec 2000
Task 1	29,534				
Task 2				14,709	
Task 3				15,822	
Task 4				48,392	
Task 5					41,489*
Task 6			17,580		
TOTAL (1)	29,534		17,580	\$78,923	41,489

* Monitoring funds encumbered for a 3 year monitoring program.

(1) 5% contingency = \$8,376 to be added.

Lower Gasburg Creek Sediment Control and Restoration

IX. Applicants Qualifications

DFG's SJVSSR anadromous fishery staff have successfully developed, administered and completed fisheries restoration and research projects in the San Joaquin Basin. They have work closely with the various other state, federal and private personnel, to construct chinook salmon spawning, rearing and predator pond isolation project. These projects include:

Merced River Riffle Reconstruction Project 1991: A riffle reconstruction project.

M. J. Ruddy Project 1992: A river restoration project. Site revegetation was also completed.

Tuolumne River Riffle Reconstruction Project 1993: A riffle reconstruction project. Site revegetation was also completed.

Stanislaus River Riffle Reconstruction Project 1995: A riffle reconstruction project. Site revegetation was also completed.

Magneson Pond Predator Isolation Project 1996: A pond isolation project. Site revegetation was also completed.

Merced River Gravel Addition Project 1996: A riffle spawning gravel addition project.

Stanislaus River Gravel Addition Project Goodwin Canyon 1997 and 1998: A spawning gravel addition project.

Merced River Wing Dam Gravel Addition Project 1996 and 1997: A riffle spawning gravel addition project.

Hills Ferry Fish Barrier 1992-2009: A multi-year, fish barrier project.

The DFG SJVSSR's staff assigned to implement the Spawning Gravel Introduction, Tuolumne River Project are:

Mr. Bill Loudermilk, Senior Biologist Supervisor (Marine/Fisheries). Mr. Loudermilk will supervise the overall project at no cost.

Mr. Tim Heyne, Associate Biologist (Marine/Fisheries). Mr. Heyne will assist in these responsibilities. He will obtain all necessary permits. He will also develop the contracts necessary to purchase, process and transport the necessary material. He will

develop the contract to monitor the project. He will be assisted by a seasonal scientific aide.

Mr. Thomas Rogers Fish Habitat Specialist. Mr. Rogers will be responsible to construct the project. He will be assisted by a permanent Fish and Wildlife Assistant (Mr. John Lokke) and several seasonal personnel.

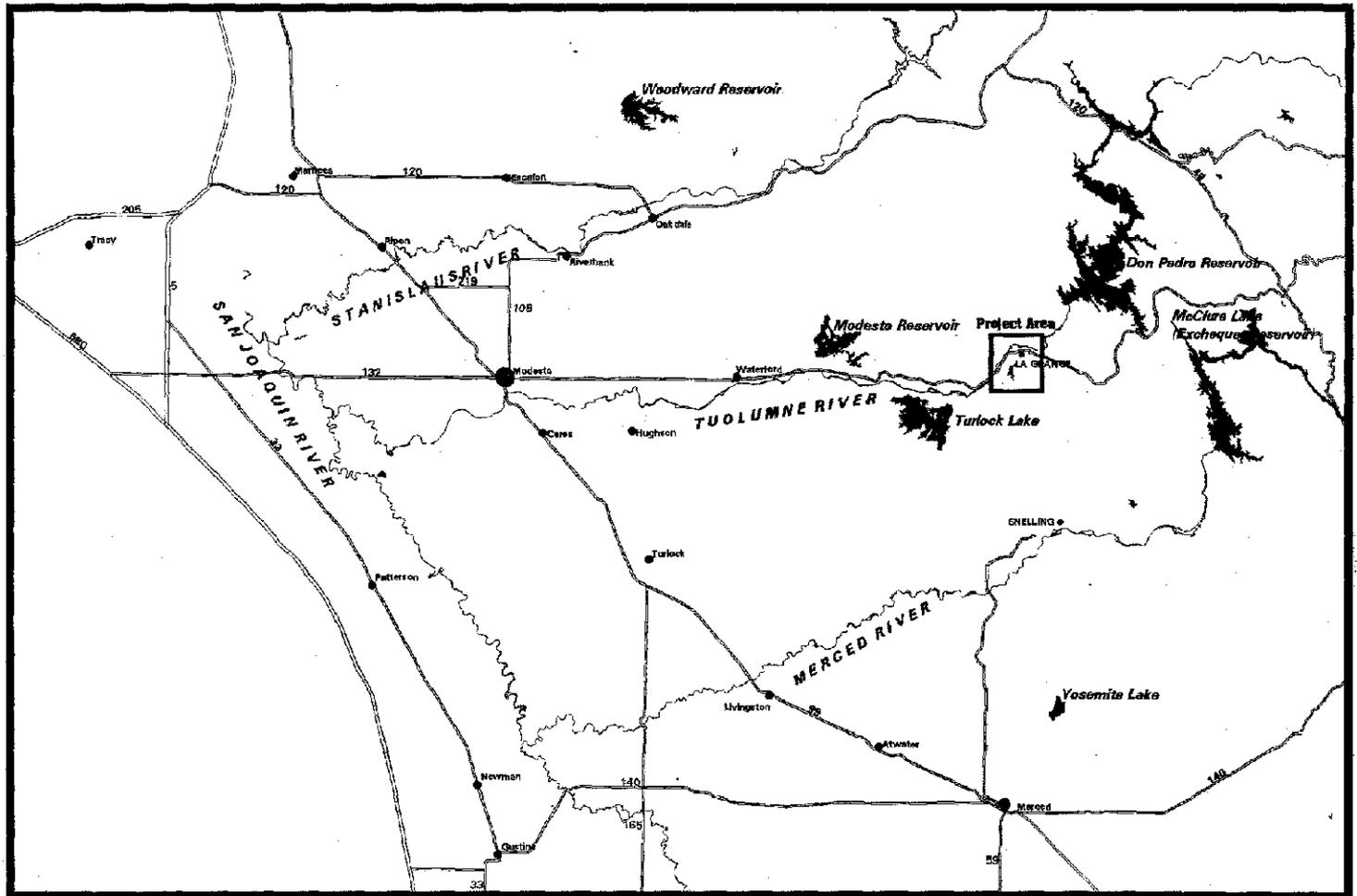
This core staff will obtain administrative support from both SJVSSR and DFG clerical, fiscal and contractual personnel. SJVSSR's environmental and wildlife personnel will provide technical and scientific review when necessary.

Lower Gasburg Creek Sediment Control and Restoration

X. Compliance with Standard Terms

DFG is a public agency and will comply with appropriate terms and conditions pursuant to policy, regulation and law.

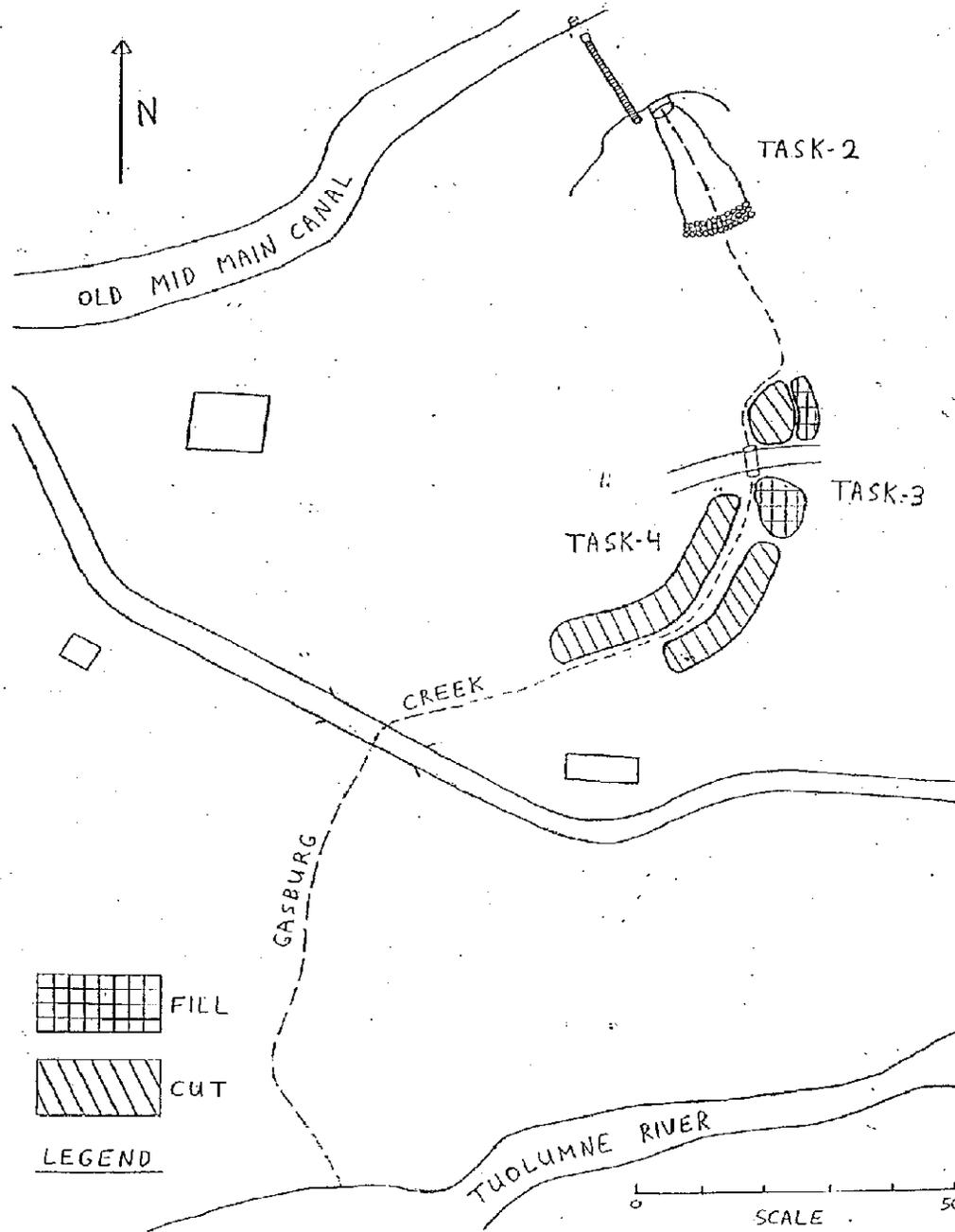
Figure 1. Project Area of the Lower Gasburg Creek Restoration Project



1-014742

1-014742

Figure 3. Tasks for Lower Gasburg Creek Restoration Project



TUOLUMNE RIVER TECHNICAL ADVISORY COMMITTEE
DON PEDRO PROJECT - FERC LICENSE 2299

MODESTO IRRIGATION DISTRICT
TURLOCK IRRIGATION DISTRICT
CITY & COUNTY OF SAN FRANCISCO
CALIFORNIA DEPARTMENT OF FISH & GAME
U. S. FISH & WILDLIFE SERVICE



333 East Canal Drive
Turlock, CA 95381-0949
Phone: (209) 883-8275
Fax: (209) 656-2143
Email: tjford@tid.org

William Loudermilk
San Joaquin Valley and Southern Sierra Region
California Department of Fish and Game
1234 E. Shaw Ave.
Fresno, CA 93710

April 7, 1999

Dear Mr. Loudermilk:

The Tuolumne River Technical Advisory Committee (TRTAC) is a product of the 1995 Don Pedro Project FERC Settlement Agreement (FSA) to which the California Department of Fish and Game is a party. The FSA is a precedent-setting document signed by 11 parties representing water agencies, fishery agencies, and environmental groups. The TRTAC is presently engaged in preparing a Habitat Restoration Plan for the 52-mile reach known as the Lower Tuolumne River, from La Grange Dam to the San Joaquin River. The FSA, the habitat plan in development, and salmon restoration plans developed by both the CDFG and US Fish and Wildlife Service, all recognize the importance of riparian habitat and the need for its restoration.

The TRTAC supports the proposal by the CDFG to reduce erosion and restore the riparian vegetation along Gasburg Creek that enters the Tuolumne River approximately 1 mile downstream of the La Grange Dam. This project is considered important in the draft Habitat Restoration Plan and should reduce a source of fine sediment input to the Tuolumne River. The TRTAC believes the Gasburg Restoration Plan represents an important restoration opportunity that will complement other restoration projects that are underway in the Tuolumne River corridor. The TRTAC supports the CDFG in their efforts to carry out this project.

Authorized by and signed on behalf of the TRTAC,

Tim Ford

Tim Ford
Coordinator, TRTAC
Turlock and Modesto Irrigation Districts

George Neillands
California Department of Fish and Game

Susan Boring
U. S. Fish and Wildlife Service

Ron Yoshiyama
City and County of San Francisco

Tim Ramirez
Tuolumne River Preservation Trust

John Farnkopf
Bay Area Water Users Association

Dave Boucher
Friends of the Tuolumne

CC: TRTAC distribution



DEPARTMENT OF FISH AND GAME

http://www.dfg.ca.gov
1416 Ninth Street
Sacramento, CA 95814



Department of Fish and Game
Central Valley Bay-Delta Branch
4001 North Wilson Way
Stockton, California 95205-2486

April 13, 1999

Stanislaus County Board of Supervisors
1100 H Street
Modesto, California 95354

Dear Supervisors:

As required by the CalFed Bay-Delta Program, this letter is to notify the Board of Supervisors that the California Department of Fish and Game will submit two proposals to the CalFed Bay-Delta Program for funding of projects that will occur within Stanislaus County. One of the projects will consist of the Lower Gasburg Creek Sediment Control and Restoration Project. The other proposal is for a Tuolumne River Spawning Gravel Introduction (phase2). The goal of each of these projects is to enhance Central Valley Salmon and Steelhead.

If you have any questions, I can be reached at (916) 653-4729 for additional information.

Sincerely,

Alan Baracco
Operations Manager
Central Valley Bay-Delta Branch

cc: County Planning Department

Conserving California's Wildlife Since 1870.

APPLICATION FOR
FEDERAL ASSISTANCE

OMB Approval No. 0248-0043

1. TYPE OF SUBMISSION: Application Preapplication Construction Construction Non-Construction Non-Construction		2. DATE SUBMITTED 04/19/99	Applicant Identifier
		3. DATE RECEIVED BY STATE	State Application Identifier
		4. DATE RECEIVED BY FEDERAL AGENCY	Federal Identifier
5. APPLICANT INFORMATION			
Legal Name: State of California		Organizational Unit: Department of Fish and Game	
Address: Department of Fish and Game 1234 East Shaw Avenue Fresno, California 93710		Name and telephone number of person to be contacted on matters involving this application: Tim Heyne (209) 853-2533	
6. EMPLOYER IDENTIFICATION NUMBER (EIN): 94-1697567		7. TYPE OF APPLICANT (enter appropriate letter in box) A	
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 H. Independent School Dist. B. County I. State Controlled Institution of High Lr 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: U.S. BUREAU OF RECLAMATION	
10. CATALOG OF FEDERAL DOMESTIC ASSISTANCE NUMBER: TITLE: _____		11. DESCRIPTIVE TITLE OF APPLICANT'S PROJECT: Fine sediment control/improved anadromous fish spawning habitat	
12. AREAS AFFECTED BY PROJECT (Cities, Counties, States, etc.) Stanislaus County, California			
13. PROPOSED PROJECT		14. CONGRESSIONAL DISTRICTS OF: Congressman Gary Condit (D)	
START DATE 1999	ENDING DATE 2002	a. Applicant CA. Dept. Fish and Game	b. Project Statewide
15. ESTIMATED FUNDING:		16. IS APPLICATION SUBJECT TO REVIEW BY STATE EXECUTIVE ORDER 12372 PROCESS?	
a. Federal	\$ 175,902	a. YES. THIS PREAPPLICATION/APPLICATION WAS MADE AVAILABLE TO THE STATE EXECUTIVE ORDER 12372 PROCESS FOR REVIEW ON. DATE: _____ b. No _____ PROGRAM IS NOT COVERED BY E.O. 12372 OR PROGRAM HAS NOT BEEN SELECTED BY STATE FOR REVIEW	
b. Applicant	\$		
c. State	\$		
d. Local	\$		
e. Other	\$		
f. Program Income	\$		
g. TOTAL	\$ 175,902		
17. IS THE APPLICATION DELINQUENT ON ANY FEDERAL DEBT? Yes If "Yes", attach and explanation. <input checked="" 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 ATTACHED ASSURANCES IF THE ASSISTANCE IS AWARDED.			
a. Type Name of Authorized Representative Alan Baracco		b. Title Operation Manager	c. Telephone Number (916) 653-4729
d. Signature of Authorized Representative <i>Alan Baracco</i>		C.E.A. I d. Date Signed 4/16/99	

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Standard Form 424 (Rev. 7-97)
Prescribed by OMB Circular A-102

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I-014747

**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



TYPED NAME AND TITLE Alan Baracco Operations Manager C.E.A. 1

DATE

4/16/99