

Proposal Title: Canal Ranch Habitat Restoration Project, Phase II  
 Applicant Name: Brad Burkholder  
 Mailing Address: 4001 N. Wilson Way, Stockton, CA 95205  
 Telephone: (209) 948-7800  
 Fax: (209) 946-6355  
 Email: bholder@delta.dfg.ca.gov

Amount of funding requested: \$ 131,980 for One year

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

- Fish Passage/Fish Screens
- Habitat Restoration
- Local Watershed Stewardship
- Water Quality
- Introduced Species
- Fish Management/Hatchery
- Environmental Education

Does the proposal address a specified Focused Action?  Yes  No

What county or counties is the project located in? San Joaquin County

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

- Sacramento River Mainstem
- Sacramento Trib: \_\_\_\_\_
- San Joaquin River Mainstem
- San Joaquin Trib: \_\_\_\_\_
- Delta: East Delta
- East Side Trib: \_\_\_\_\_
- Suisun Marsh and Bay
- North Bay/South Bay: \_\_\_\_\_
- Landscape (entire Bay-Delta watershed)
- Other: \_\_\_\_\_

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

- San Joaquin and East-side Delta tributaries fall-run chinook salmon
- Winter-run chinook salmon
- Late-fall run chinook salmon
- Delta smelt
- Splittail
- Green sturgeon
- Migratory birds
- Other: \_\_\_\_\_
- Spring-run chinook salmon
- Fall-run chinook salmon
- Longfin smelt
- Steelhead trout
- Striped bass
- All chinook species
- 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:

Natural Floodplain and Flood Processes (page 91); Central Valley Stream  
Temperatures (page 92); Delta Channel Hydraulics (page 93); Bay Delta Aquatic  
Foodweb (page 95); Nontidal Perennial Aquatic (page 97); Delta Sloughs (page 97);  
Fresh Emergent Wetland (Nontidal) (page 100); Seasonal Wetland (page 101);  
Riparian and Riverine Aquatic (page 102); Perennial Grassland (page 105);  
Agricultural Lands (page 105); Contaminants (page 113); Harvest of Fish and  
Wildlife (page 114); Delta Smelt (page 20); Splittail (page 24), White Sturgeon  
(page 42); Green Sturgeon (page 22); Chinook salmon (pages 25-28); Steelhead Trout  
(page 29); Striped Bass (page 43); American Shad (page 43); Native Resident Fish  
(page 40); Bay-Delta Aquatic Foodweb Organisms (page 42); Swainson's Hawk  
(page 31); Greater Sandhill Crane (page 35), Shorebird Guild (page 41), Wading Bird  
Guild (page 41), Waterfowl (page 40), Upland Game (page 45), and Neotropical  
Migratory Birds (page 41). Note: All page numbers refer to Volume II of the ERP.

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

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> State agency         | <input type="checkbox"/> Federal agency |
| <input type="checkbox"/> Public/Non-profit joint venture | <input 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 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.

Brad Burkholder  
Printed name of applicant

Cindy Costa for  
Signature of applicant

**Canal Ranch  
Habitat Restoration, Phase II  
Demonstration Project**

**Principal Investigator**

Mr. Brad Burkholder  
Wildlife Biologist  
California Department of Fish and Game  
Central Valley Bay-Delta Branch  
4001 North Wilson Way  
Stockton, California 95205  
Phone (209) 948-7800  
Fax (209) 946-6355  
E-mail [bholder@delta.dfg.ca.gov](mailto:bholder@delta.dfg.ca.gov)

**Organization**

State of California Resources Agency, Department of Fish and Game

**Participants/Collaborators in Implementation**

Current participants include the Canal Ranch Partner's, L.L.C. and the California Department of Fish and Game. Implementation, guidance, and assistance will be provided by the U.S. Fish and Wildlife Service, Bureau of Land Management, Ducks Unlimited, Inc., and The Natural Resource Conservation Service.

**Executive Summary**  
**1999 Canal Ranch**  
**Habitat Restoration Demonstration Project, Phase II**

Applicant:  
Habitat Conservation Planning Branch  
Wildlife and Inland Fisheries Division  
Central Valley Bay-Delta Branch  
and  
Region 2

**Project Description**

In June of 1996, a conceptual habitat management plan was developed for the Canal Ranch Partners, L.L.C. by the Department of Fish and Game (DFG) entitled "Habitat Management Plan for the Canal Ranch Fish and Wildlife Management Area." The plan includes restoration of seasonal wetlands, riparian, and shaded riverine aquatic habitats and enhancement of agricultural management for fish and wildlife on 3,070 acres located in the northeastern Delta, San Joaquin County. Implementation of the plan will be carried out in several phases over multiple years. This proposal is requesting funding for Phase II.

During Phase II, the land owners, engineers, and a team of biologists and botanists from Region 2 and the divisions and branches listed above will work together to ground truth the Conceptual Habitat Management Plan with the survey data from Phase I. At this point, any necessary changes will be made and incorporated into a Feasibility Level Habitat Management Plan for Canal Ranch. This plan will include management strategies for the restoration of native plant communities; potential reintroduction of the Sacramento perch in selected ponds on Canal Ranch; development of seasonal wetlands and habitats suitable for Northern pintail, other waterfowl, and greater sandhill cranes; educational and interpretive opportunities; and to provide high quality public hunting and educational opportunities.

The project dovetails with long-term wetland goals set for the Central Valley and Delta by the North America Joint Venture Program, the visions, implementation objectives, and targets for CALFED's ERPP, and the CVPIA.

**Benefits**

In addition to meeting the goals and objectives of various programs, there will be numerous additional benefits. Those benefits include:

- Long-term protection of land from uses that are incompatible with restoration and maintenance of the Delta.
- Management with emphasis on fish and wildlife will reduce subsidence which, if

allowed to continue at current rates, would increase the risk of structural levee failure and adverse impacts to the wildlife resources using the Delta.

- Opportunities for the reintroduction of the Sacramento perch.
- Habitat for restoration of rare plant communities.
- Habitat for Swainson's hawks and other neotropical migrants.
- Habitat at the land-water interface in Beaver and Hog sloughs will provide enhanced spawning and rearing habitat for delta smelt and splittail and rearing habitat for chinook salmon.
- Increased wintering and breeding waterfowl use.

No significant negative third party impacts were identified for this project.

### **Applicant Qualifications**

The California Department of Fish and Game has extensive experience in developing and managing fish and wildlife habitat through the numerous wildlife areas and conservation easements throughout the State. The principle investigator has worked in the Delta for five years and has experience with the development and monitoring of a variety of habitats. The interdisciplinary team will be composed of experienced botanists, wildlife interpreters, and specialists in the science of restoration. The primary focus of qualifications will be on the engineering consultant. That consultant will be selected in Phase II.

### **Monitoring and Data Collection Methodology**

Monitoring will begin with implementation in Phase III and continue until all objectives identified in the Master Plan have been met. Status reports will be written each year and submitted for review to the interdisciplinary team and CALFED. Monitoring will include, but will not be limited to: water quality in Beaver and Hog sloughs and the Mokelumne River; wildlife use patterns in all of the habitat areas; vegetation growth, trends, and recruitment throughout the restoration area to monitor plant composition and makeup; and, fisheries occurrence in the restored in-stream habitats.

### **Project Contact**

The proposal was coordinated by Brad Burkholder, Wildlife Biologist with the Central Valley Bay-Delta Branch. Please contact Mr. Burkholder at CALNET 8-423-7800 for questions or further information.

## Project Description

### Project Description and Approach

The Canal Ranch Habitat Restoration Demonstration Project is a proposal to maintain agricultural production while increasing the benefits to fish and wildlife on approximately 3,070 acres of agricultural land in the east Delta (Figures 1 and 2). The plan includes the restoration of seasonal wetland; instream aquatic and shaded riverine aquatic habitats; and north Delta agricultural wetlands as well as perennial grassland habitats for aquatic and terrestrial species. Implementation of the plan will be carried out in four phases over approximately five years. The first phase is currently in progress and will result in detailed topographic surveys. These surveys will provide the foundation for Phase II and help guide the project participants and collaborators with the refinement of the existing Habitat Management Plan and development of a master plan for implementation.

**Location of Project:** The Canal Ranch is a 3,070 acre area located west of Blossom Road approximately four miles southwest of Thornton, in San Joaquin County. The project area is located on Canal Ranch Tract which is South of Beaver Slough, North of Hog Slough, and East of the South Fork of the Mokelumne River (Figure 2).

**Existing Condition:** An easement in favor of Reclamation District No. 2086 exists that grants the District authority to maintain, improve and repair the levees and drainage systems within the boundaries of the ranch and to levy assessments against the landowners to perform such duties. North of Canal Ranch is the Nature Conservancy's Cosumnes River Preserve. To the south is the Woodbridge Ecological Preserve. The project area has historically been farmed for alfalfa, tomatoes, sugar beets, wheat, and corn.

**Proposed Restoration Approach:** The basic approach is to promote and develop a self-sustaining complex of natural communities while still maintaining agricultural production. We will rely on natural successional processes to promote wetland regeneration. Primary restoration methods will involve construction of levees, excavation of interior sloughs, ponds, and ditches, limited planting of sensitive plant species, and a program of invasive species management.

### Proposed Scope of Work

**Project phases:** There are four phases for completion of the restoration project. Phase I is in progress and will be completed by December 31, 1999. Ground and aerial surveys will result in the development of detailed topographic maps and digital data that will assist and guide the refinement of the plan and development of the master plan.

**Phase II,** the contents of this proposal, will consist of five tasks. The Task 1 will be to develop an interdisciplinary work team of biologists, professionals, researchers, and landowners in, or with knowledge of, the Delta and develop a suitable mosaic of habitats.

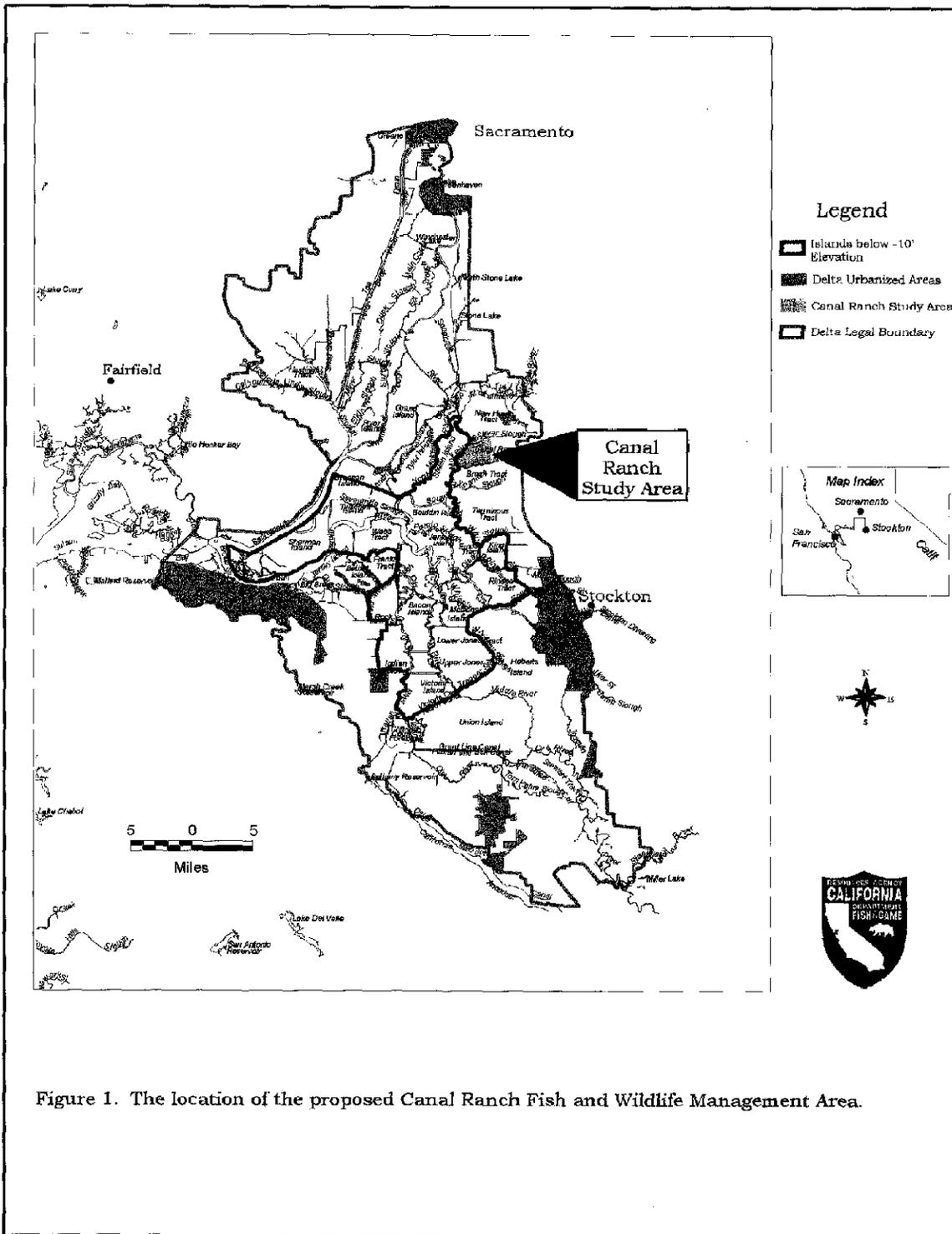


Figure 1. The location of the proposed Canal Ranch Fish and Wildlife Management Area.

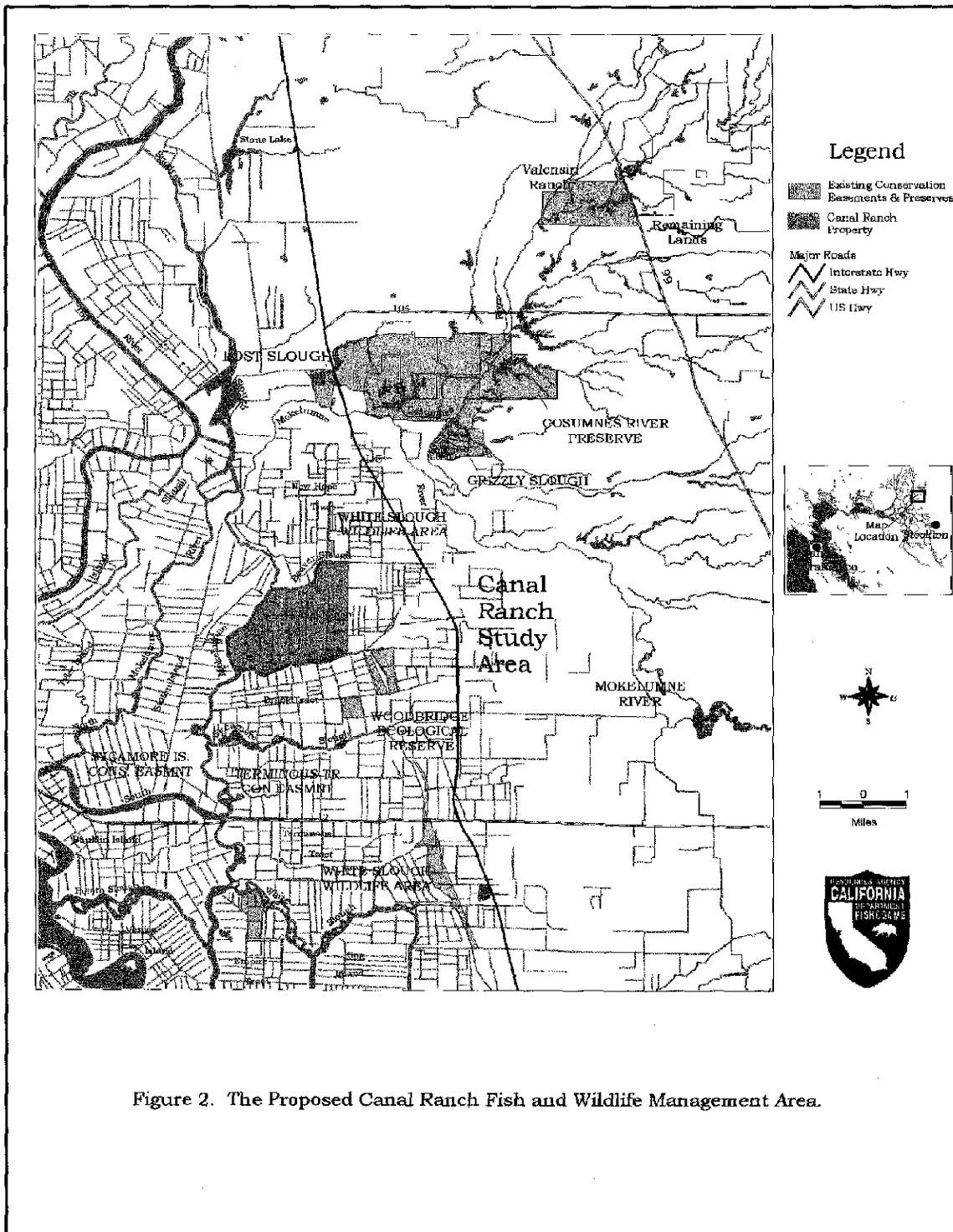


Figure 2. The Proposed Canal Ranch Fish and Wildlife Management Area.

Task 2 will be to conduct public workshops and meetings throughout the Delta communities to meet with landowners and interested parties to discuss the importance of the balance between agriculture and native habitats. In addition, this will provide them with a forum which will allow them input for the design and planning efforts. Tasks 3 and 4 involve the refinement of the infrastructure development and design plan. Task 5 is the completion of the environmental documentation and permitting as required by CEQA, NEPA, and Section 404 of the Clean Water Act.

Two additional phases remain before completion of the project. Phase III will be the restoration plan implementation and/or acquisition of the property. Phase IV will be the establishment of the operation, maintenance, monitoring, and interpretive programs.

**Project Justification:** Early European settlers in California reclaimed the Sacramento-San Joaquin Delta for agriculture. Coupled with the channelization of the rivers and sloughs of the Delta, this resulted in the loss of 90 percent of the wetlands. The loss of the wetland connection has reduced or interfered with ecological processes and functions critical for sustaining a healthy ecosystem. A lack of support for the aquatic food web and food web organisms contributes to unhealthy fish populations. A lack of shallow water and shaded riverine habitats reduces the amount of rearing habitat for chinook salmon, delta smelt, and splittail. Reduction in and fragmentation of seasonal wetlands, riparian, and associated uplands has resulted in reduced populations of waterfowl, shorebirds, sandhill cranes, brush rabbits and rare plants dependent on these habitats. The project will help reverse the above conditions and provide CALFED with extremely valuable information to forecast restoration costs.

### **Ecological/Biological Benefits**

**Primary Benefits:** The proposed Canal Ranch Habitat Restoration project will contribute to meeting the visions for shaded riverine aquatic, Delta agriculture, seasonal wetland, and perennial grassland habitats, as well as the vision for the Delta Ecological Zone, by increasing the area of these natural habitats and protecting agricultural practices to assist in the recovery of special status fish, plant, and wildlife populations.

**Secondary Benefits:** The Delta farmers, landowners, and communities will have assisted in designing and planning a project and set the stage for future efforts. This will allow CALFED to accurately forecast the costs and economic impacts associated with meeting their restoration goals in the Delta. CALFED will also have a much better understanding of what it will take to meet its restoration goals in the Delta. In addition, landowners, farmers, and Delta communities will have become involved in the process and have a clear understanding of CALFED objectives. This involvement could lead to additional willing participants.

Additional secondary benefits from the implementation of the management plan would be that tidal wetlands could be developed to the property just to the east of Canal Ranch. Other benefits include an excellent compliment to the Cosumnes River Preserve to the north

and the Woodbridge Ecological Reserve to the south. This may create interest from additional parties to get involved in additional restoration efforts and offer the first step in developing a larger scale, more contiguous restoration effort that would eventually join the Cosumnes River Preserve and the Woodbridge Ecological Reserve.

**Third Party Benefits:** Additional benefits of the project include an increase in public recreational activities such as bird watching, hunting, nature study, and education. The existing interpretive program at Woodbridge Ecological Reserve could be expanded to include the Canal Ranch project area. DFG specialists will work to develop that program in this phase.

**Linkages:** This project will help address the general targets for processes, habitats, and species that were once common throughout the Sacramento-San Joaquin Delta Ecological Zone such as the following:

ECOLOGICAL ZONE, HABITAT, SPECIES, OR STRESSOR	BENEFICIAL ACTION	ERPP Volume II
Central Valley Streamflows	Enhance the Bay-Delta Foodweb; Encourage riparian vegetation growth	page 88
Natural Floodplain and Flood Processes	Restoration of floodplain and riparian habitats	page 91
Central Valley Stream Temperatures	Restoration and improvement of Delta riparian woodland habitats	page 92
Delta Channel Hydraulics	Restoration of more natural internal Delta waterflows	page 93
Bay-Delta Aquatic Foodweb and Bay-Delta Foodweb Organisms	Restoration of Delta streamflows, floodplain flooding, hydraulics, and riparian habitats	page 95 page 42
Nontidal Perennial Aquatic	Restoration off fresh emergent wetlands	page 97
Delta Sloughs	Restoration of slough habitats	page 97
Fresh Emergent Wetland (Nontidal)	Restoration of nontidal freshwater marshes	page 100
Seasonal Wetland	Restoration of seasonal wetland habitat	page 101
Riparian and Riverine Aquatic	Restoration of riparian and riverine aquatic habitats in the East Delta	page 102
Perennial Grassland	Restoration of perennial grasslands associated with wetlands and floodplains	page 105
Agricultural Lands	Management of farmland for wildlife use; Creation of semipermanent ponds in Delta farmland	page 105

Delta Smelt,	Improvement of Delta hydraulics, Delta aquatic foodweb, wetlands, and aquatic riparian habitats; Reduction of stressors	page 20
Splittail Native Resident Fishes	Improvement of Delta stream temperatures, Delta hydraulics, Delta aquatic foodweb, wetlands, and aquatic riparian habitats; Reduction of stressors	page 24 page 40
Chinook Salmon Steelhead Trout	Improvement of Central Valley streamflows, Central Valley water temperatures, natural flood and floodplain processes, riparian and riverine aquatic habitat; Reduction of stressors	page 25-28 page 29
Green Sturgeon White Sturgeon American Shad	Improvement of Delta hydraulics and Delta aquatic foodweb; Reduction of stressors	page 22 page 42 page 43
Striped Bass	Restoration of Delta hydraulics, Delta aquatic foodweb, shallow water habitat, riparian habitat, and wetland habitat; Reduction of stressors	page 43
Swainson's Hawk	Restoration of riparian woodland habitat; Management of agricultural lands for wildlife use	page 31
Greater Sandhill Crane Upland Game Neotropical Migratory Birds	Restoration of nontidal emergent wetland, perennial grasslands, seasonal wetlands; Management of agricultural lands for wildlife use	page 35 page 45 page 41
Giant Garter Snake	Restoration of wetlands habitats	page 37
Western Pond Turtle	Protection of pond turtle habitat	page 38
Waterfowl	Restoration of Delta sloughs, marshes, riparian habitats, and ponds	page 40
Shorebird and Wading Bird Guilds	Restoration of wetlands and nontidal perennial aquatic habitats	page 41
Water Diversions	Reduction in the loss of important fish species to agricultural diversions	page 110
Invasive Aquatic Plants Invasive Aquatic Organisms	Enhancement of the Delta foodweb and habitats for natives fish populations	page 111 page 112
Invasive Riparian and Salt Marsh Plants	Eradication of woody plants from a restoration area; Enhancement of habitats for native species	page 112
Contaminants	Modification of agricultural practices to reduce levels of contaminants entering the watershed	page 113
Harvest of Fish and Wildlife	Increased area and access to legal hunting and fishing opportunities in a monitored environment	page 114

The proposal also dovetails with long-term wetland goals set for the Central Valley and Delta by the North America Joint Venture program and objectives for the CVPIA and AFRP.

In addition to habitat and species benefits, modifying the management of this land could reduce consumptive water use by shifting to wetland management strategies which result in lower channel depletion and reduced evapo-transpiration during critical Delta outflow periods. The implementation of the management plan would result in a decrease in diversions which would result in less entrainment of species such as the splittail, delta smelt, and especially winter-run Chinook salmon (ERPP Volume II, Central Valley Streamflows, General Target, page 88; Water Diversions, Target 1, page 110; and Predation and Competition, Target 2, page 113). Water management practices would be modified so that no diversions would be expected during critical winter-run out-migration periods in March and April (ERPP Volume II, Central Valley Streamflows, Targets 1 and 2, pages 89).

The habitat management strategy would additionally increase the integrity of the structural levee system by reducing subsidence as well as significantly reduce the amount of contaminants released in Hog Slough (ERPP Volume II, Contaminants, Target 1, page 113). This reduced water depletion can translate into improved flows in the south fork of the Mokelumne River, improving water supplies in the Delta and, potentially, downstream of the Delta (ERPP Volume II, Delta Channel Hydraulics, Target 1, page 93 and Target 2, page 93).

The creation of shallow water and shaded riverine areas on the north and south boundaries will provide needed spawning and rearing habitat for listed species such as delta smelt and splittail, as well as rearing habitat for Chinook salmon (ERPP Volume II, Riparian and Riverine Aquatic Habitats, Target 4, page 103). In addition, increased water quality and more suitable water temperature levels will result in Beaver and Hog sloughs and, ultimately, the South Fork of the Mokelumne River. Nutrient retention and production would also be expected to increase with the implementation of this project.

Seasonal wetland and aquatic habitat for species such as waterfowl, giant garter snakes, sandhill cranes, and tri-colored blackbirds, to name a few, will increase. Roosting and nesting habitats for the Swainson's hawk and neotropical migrants would greatly benefit with the development of riparian habitats adjacent to the wetlands and shallow water habitats.

**System-Wide Ecosystem Benefits:** This project dovetails with the long-term wetland and riparian goals for the Delta and Central Valley by the North American Habitat Joint Venture programs. The project also dovetails with wetlands recovery efforts of the USFWS and DFG and is consistent with the visions, implementation objectives, and targets for CALFED's ERP.

**Compatibility with Non-Ecosystem Objectives:** While we realize that this particular property is still within the range of CALFED solution alternatives, each implementation alternative that will be developed will maintain the integrity of this project and each will be viable. In addition, it will provide important information which can be applied to future CALFED restoration efforts on lands throughout the Delta.

Even without implementation of the plan, CALFED will benefit from the completion of Phase II which will provide the tools to; 1) forecast the costs of restoration; 2) analyze and determine the economic impacts to the local economies; and 3) determine the most effective

means for restoration of lands that are below sea level in the Delta. Most importantly, public workshops and meetings will be conducted to get Delta farmers, landowners, and communities involved in the process. A forum will be provided for them where they can submit suggestions and input that can help future planning efforts. By working with them and allowing them to help in this process, more farmers and landowners might become interested in developing additional restoration efforts of this nature, and will have a much better understanding of the CALFED process.

### **Technical Feasibility and Timing**

The project applicant will complete environmental compliance and permitting needed to carry out the project. The applicant will work closely with the U.S. Army Corps of Engineers (ACOE) to ensure the application for a 404 permit is complete. The deliverables associated with this task are a Draft Environmental Assessment/Initial Study, Draft ACOE permit application, and a Master Plan for implementation.

The DFG is willing to participate in the restoration and management of Canal Ranch. Contracts between all parties would be written and any necessary permits would be issued. The proposed project does not conflict with other projects in the area. Construction would begin in Phase III and would be completed in approximately three years. The proposed project will comply with all applicable laws and regulations.

### **Monitoring and Data Collection Methodology**

Monitoring will begin with implementation in Phase III and continue until all objectives identified in the Master Plan have been met. Status reports will be written each year and submitted for review to the interdisciplinary team and CALFED. Monitoring will include, but will not be limited to: water quality in Beaver and Hog sloughs and the Mokelumne River; wildlife use patterns in all of the habitat areas; vegetation growth, trends, and recruitment throughout the restoration area to monitor plant composition and makeup; and, fisheries occurrence in the restored in-stream habitats.

### **Local Involvement**

The Canal Ranch Partner's, L.L.C. are willing to participate in the management plan developed in 1996. The land is currently in agriculture production (tomatoes, sugar beets, melons, potatoes, corn, and wheat) but has the potential to produce grapes. Upon completion of the public workshops and refinement of the existing plan, the project could move forward immediately. Communications between DFG and Canal Ranch Partner's, L.L.C. are ongoing. Solicitations are ongoing to identify potential funding sources interested in the implementation and/or acquisition. Should acquisition agreements be reached, contracts would be written, all necessary permits would be issued, and easements would be developed.

Other agencies and parties contacted and interested in the project include Ducks Unlimited, Inc., U.S. Fish and Wildlife Service, Natural Resource Conservation Service, Bureau of Land Management, and the Nature Conservancy. San Joaquin County has been notified of the submittal of this proposal.

### Cost

**Budget:** The cost for the entire project from start to finish has not yet been determined. Completion of Phase II will provide the information necessary to do so. The budget costs for Phase II are in Table 1. Table 2 shows a further breakdown of the costs by quarters.

Table 1. Cost breakdown for Phase II work tasks. Overhead must be charged to all monies obtained by DFG, even if the money passes through to outside contracts.

Task	Salary	Contracts	Materials	Miscellaneous	Overhead	Total
design and analysis	10,000	50,000	5,000		11,250	76,250
refinement	10,000	25,000	2,500		6,500	44,000
workshops	5,000		2,500	2,500	1,730	11,730
					TOTAL	131,980

Table 2. Quarterly costs for Phase II completion.

Jan-Mar 00	Apr-Jun 00	Jul-Sep 00	Oct-Dec 00	Total Budget
3,400	60,400	40,400	27,780	131,980

**Schedule:** Funds for the completion of Phase II would be spread out to cover the five tasks associated with completion. An initial cost of \$75,000 would be allocated upon the signing of the contract for engineering design refinements. An additional \$25,000 will be allocated for the public outreach program and interdisciplinary team. Phase II will be completed by March 2001.

### Cost-Sharing

The Canal Ranch Habitat Restoration Project is located on property owned by the Canal Ranch Partners, L.L.C.. Negotiations are ongoing regarding the acquisition of the property. The preferred alternative is to develop an agreement in which the current land owners retain the title for the property with the placement of an easement in perpetuity on the property. The easement would allow public access.

## **Applicant Qualifications**

The California Department of Fish and Game has extensive experience in developing and managing fish and wildlife habitat through the numerous wildlife areas and conservation easements throughout the State. The principle investigator, Mr. Brad Burkholder, has worked in the Delta for five years and has experience with the development and monitoring of a variety of habitats there. The interdisciplinary team will be composed of experienced botanists, wildlife interpreters, and specialists in the science of restoration. The primary focus of qualifications will be on the engineering consultant. That consultant will be selected in Phase II.

## **Compliance With Standard Terms and Conditions**

The infrastructure design plan and cost and economic analysis' will be contracted out to private firms who have reputable knowledge and experience in the Delta. These contracts will be drawn up with the approval of Canal Ranch Partner's, L.L.C. and submitted to CALFED for approval when appropriate. The public workshops and meetings will be conducted by DFG staff and coordinated with the Canal Ranch Partner's, L.L.C.. No specific contractual terms and conditions are required for at this time. Should this project move forward, all terms and contracts will be written up and submitted to CALFED for approval.

**Attachment A**

## DEPARTMENT OF FISH AND GAME

Central Valley Bay-Delta Branch  
4001 North Wilson Way  
Stockton, California 95205-2486  
(209) 948-7800



April 15, 1999

San Joaquin County Board of Supervisors  
Attention: Mr. Robert Cabral, Chairman  
222 East Weber, Room 701  
Stockton, California 95202

Dear Mr. Cabral:

This letter is to notify the Board of Supervisors that the California Department of Fish and Game Central Valley Bay-Delta Branch is submitting a proposal for habitat restoration on the Canal Ranch Tract. The proposal title is "**Canal Ranch Habitat Restoration, Phase II Demonstration Project**" and it will be submitted to the CALFED Bay-Delta Program for funding. The Canal Ranch Habitat Restoration Project is creating on strategies for incorporating seasonal wetlands, riparian, and shaded riverine habitats with agricultural lands on the Canal Ranch Tract. Questions concerning this proposal should be directed to either:

Mr. Frank Wernette, Senior Biologist  
California Department of Fish and Game  
4001 N. Wilson Way  
Stockton, California 95205  
(209) 948-7800  
fwernett@delta.dfg.ca.gov

or

Mr. Brad Burkholder, Wildlife Biologist  
California Department of Fish and Game  
4001 N. Wilson Way  
Stockton, CA 95205  
(209) 948-7800

Sincerely,

A handwritten signature in black ink, appearing to read "Alan Bafacco".

Alan Bafacco  
Operations Manager  
Central Valley Bay-Delta Branch

cc: Department of Fish and Game  
Stockton, California

Mr. Brad Burkholder  
Mr. Frank Wernette

AB99D010.wpd:lh/cc

## DEPARTMENT OF FISH AND GAME

Central Valley Bay-Delta Branch  
4001 North Wilson Way  
Stockton, California 95205-2486  
(209) 948-7800



April 15, 1999

San Joaquin County Planning Division  
1810 East Hazelton  
Stockton, California 95205

Re: Proposal for Habitat Restoration

This letter is to notify the San Joaquin County Planning Division that the California Department of Fish and Game Central Valley Bay-Delta Branch is submitting a proposal for habitat restoration on the Canal Ranch Tract. The proposal title is "**Canal Ranch Habitat Restoration, Phase II Demonstration Project**" and it will be submitted to the CALFED Bay-Delta Program for funding. The Canal Ranch Habitat Restoration Project is creating on strategies for incorporating seasonal wetlands, riparian, and shaded riverine habitats with agricultural lands on the Canal Ranch Tract. Questions concerning this proposal should be directed to either:

Mr. Frank Wernette, Senior Biologist  
California Department of Fish and Game  
4001 N. Wilson Way  
Stockton, California 95205  
(209) 948-7800  
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or

Mr. Brad Burkholder, Wildlife Biologist  
California Department of Fish and Game  
4001 N. Wilson Way  
Stockton, CA 95205  
(209) 948-7800

Sincerely,

A handwritten signature in black ink, appearing to read "Alan Baracco".

Alan Baracco  
Operations Manager  
Central Valley Bay-Delta Branch

cc: Department of Fish and Game  
Stockton, California

Mr. Brad Burkholder  
Mr. Frank Wernette

AB99D011.wpd:lb/cc

**APPLICATION FOR  
FEDERAL ASSISTANCE**

OMB Approval No. 0348-0043

<b>2. DATE SUBMITTED</b> April 16, 1999		Applicant Identifier
<b>TYPE OF SUBMISSION:</b> Application <input checked="" type="checkbox"/> Construction <input type="checkbox"/> Non-Construction	<b>3. DATE RECEIVED BY STATE</b>	State Application Identifier
	<b>4. DATE RECEIVED BY FEDERAL AGENCY</b>	Federal Identifier

**APPLICANT INFORMATION**

Name: California Department of Fish and Game  
 Organizational Unit: Central Valley Bay-Delta Branch

Address (give city, county, State, and zip code):  
 1001 N. Wilson Way  
 Stockton, California 95205

Name and telephone number of person to be contacted on matters involving this application (give area code):  
 Brad Burkholder (209) 948-7068

**EMPLOYER IDENTIFICATION NUMBER (EIN):**  
 [ ] - [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]

**7. TYPE OF APPLICANT: (enter appropriate letter in box)**

**TYPE OF APPLICATION:**

New     Continuation     Revision

Revision, enter appropriate letter(s) in box(es) [ ] [ ]

Increase Award    B. Decrease Award    C. Increase Duration  
 Decrease Duration    Other (specify): \_\_\_\_\_

A. State                      H. Independent School Dist.      
 B. County                    I. State Controlled Institution of Higher Learning  
 C. Municipal                J. Private University  
 D. Township                K. Indian Tribe  
 E. Interstate                L. Individual  
 F. Intermunicipal           M. Profit Organization  
 G. Special District        N. Other (Specify) \_\_\_\_\_

**9. NAME OF FEDERAL AGENCY:**  
 \_\_\_\_\_

**CATALOG OF FEDERAL DOMESTIC ASSISTANCE NUMBER:**  
 [ ] - [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]

**11. DESCRIPTIVE TITLE OF APPLICANT'S PROJECT:**  
 \_\_\_\_\_

**TITLE:**  
 \_\_\_\_\_

**AREAS AFFECTED BY PROJECT (Cities, Counties, States, etc.):**  
 San Joaquin County

**PROPOSED PROJECT:** Canal Ranch

**14. CONGRESSIONAL DISTRICTS OF:** Richard Pombo, District 11

Date: April 2000    Ending Date: April 2001    a. Applicant: Brad Burkholder    b. Project: Canal Ranch Habitat Restoration Project

**ESTIMATED FUNDING:**

Federal	\$	131,980	00
Applicant	\$		00
State	\$		00
Local	\$		00
Other	\$		00
Program Income	\$		00
<b>TOTAL</b>	\$	131,980	00

**16. IS APPLICATION SUBJECT TO REVIEW BY STATE EXECUTIVE ORDER 12372 PROCESS?**

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

**17. IS THE APPLICANT DELINQUENT ON ANY FEDERAL DEBT?**  
 Yes If "Yes," attach an explanation.     No

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.

Type Name of Authorized Representative: Perry Herrgesell    b. Title: Chief    c. Telephone Number: (209) 948-7800

Signature of Authorized Representative: \_\_\_\_\_    e. Date Signed: April 15, 1999

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 Prescribed by OMB Circular A-102

**PART C: Certification Regarding Drug-Free Workplace Requirements**

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

**Alternate I. (Grantees Other Than Individuals)**

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

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

4001 N. WilsonsWay

Stockton, San Joaquin County, California

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

**PART D: Certification Regarding Drug-Free Workplace Requirements**

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

**Alternate II. (Grantees Who Are Individuals)**

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

**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 \_\_\_\_\_

**COPY** ORIGINAL SIGNED BY  
ALAN BARADOO

TYPED NAME AND TITLE Perry .. Herrgesell, Chief \_\_\_\_\_

DATE \_\_\_\_\_

## INSTRUCTIONS FOR THE SF-424A

Public reporting burden for this collection of information is estimated to average 180 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 (0348-0044), 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.**

### General Instructions

This form is designed so that application can be made for funds from one or more grant programs. In preparing the budget, adhere to any existing Federal grantor agency guidelines which prescribe how and whether budgeted amounts should be separately shown for different functions or activities within the program. For some programs, grantor agencies may require budgets to be separately shown by function or activity. For other programs, grantor agencies may require a breakdown by function or activity. Sections A, B, C, and D should include budget estimates for the whole project except when applying for assistance which requires Federal authorization in annual or other funding period increments. In the latter case, Sections A, B, C, and D should provide the budget for the first budget period (usually a year) and Section E should present the need for Federal assistance in the subsequent budget periods. All applications should contain a breakdown by the object class categories shown in Lines a-k of Section B.

#### Section A. Budget Summary Lines 1-4 Columns (a) and (b)

For applications pertaining to a *single* Federal grant program (Federal Domestic Assistance Catalog number) and *not* requiring a functional or activity breakdown, enter on Line 1 under Column (a) the catalog program title and the catalog number in Column (b).

For applications pertaining to a *single* program requiring budget amounts by multiple functions or activities, enter the name of each activity or function on each line in Column (a), and enter the catalog number in Column (b). For applications pertaining to multiple programs where none of the programs require a breakdown by function or activity, enter the catalog program title on each line in Column (a) and the respective catalog number on each line in Column (b).

For applications pertaining to a *multiple* programs where one or more programs require a breakdown by function or activity, prepare a separate sheet for each program requiring the breakdown. Additional sheets should be used when one form does not provide adequate space for all breakdown of data required. However, when more than one sheet is used, the first page should provide the summary totals by programs.

#### Lines 1-4, Columns (c) through (g)

For new applications, leave Columns (c) and (d) blank. For each line entry in Columns (a) and (b), enter in Columns (e), (f), and (g) the appropriate amounts of funds needed to support the project for the first funding period (usually a year).

For continuing grant program applications, submit these forms before the end of each funding period as required by the grantor agency. Enter in Columns (c) and (d) the estimated amounts of funds which will remain unobligated at the end of the grant funding period only if the Federal grantor agency instructions provide for this. Otherwise, leave these columns blank. Enter in Columns (e) and (f) the amounts of funds needed for the upcoming period. The amount(s) in Column (g) should be the sum of amounts in Columns (e) and (f).

For supplemental grants and changes to existing grants, do not use Columns (c) and (d). Enter in Column (e) the amount of the increase or decrease of Federal funds and enter in Column (f) the amount of the increase or decrease of non-Federal funds. In Column (g) enter the new total budgeted amount (Federal and non-Federal) which includes the total previous authorized budgeted amounts plus or minus, as appropriate, the amounts shown in Columns (e) and (f). The amount(s) in Column (g) should not equal the sum of amounts in Columns (e) and (f).

Line 5—Show the totals for all columns used.

#### Section B. Budget Categories

In the column headings (1) through (4), enter the titles of the same programs, functions, and activities shown on Lines 1-4, Column (a), Section A. When additional sheets are prepared for Section A, provide similar column headings on each sheet. For each program, function or activity, fill in the total requirements for funds (both Federal and non-Federal) by object class categories.

Lines 6a-i—Show the totals of Lines 6a and 6i in each column.

Line 6j—Show the amount of indirect cost.

Line 6k—Enter the total of amounts on Lines 6i and 6j. For all applications for new grants and continuation grants the total amount in column (5), Line 6k, should be the same as the total amount shown in Section A, Column (g), Line 5. For supplemental grants and changes to grants, the total amount of the increase or decrease as shown in Columns (1)-(4), Line 6k should be the same as the sum of the amounts in Section A, Columns (c) and (f) on Line 5.

Line 7—Enter the estimated amount of income, if any, expected to be generated from this project. Do not add or subtract this amount from the total project amount. Show under the program.

## 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 this 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.

I, 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 the United States and, if appropriate, the State, through any authorized representative, access to and the right to examine all records, books, papers, or documents related to the award; and will establish a proper accounting system in accordance with generally accepted accounting standards or agency directives.
3. Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest, or personal gain.
4. Will initiate and complete the work within the applicable time frame after receipt of approval of the awarding agency.
5. Will comply with the Intergovernmental Personnel Act of 1970 (42 U.S.C. §§4728-4763) relating to prescribed standards for merit systems for programs funded under one of the 19 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.

BUDGET INFORMATION - Non-Construction Programs						
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. Canal Ranch		\$	\$	\$ 131,980	\$	\$ 131,980
2.						
3.						
4.						
5. Totals		\$	\$	\$	\$	\$ 131,980
SECTION B - BUDGET CATEGORIES						
6. Object Class Categories	GRANT PROGRAM, FUNCTION OR ACTIVITY				Total (5)	
	(1)	(2)	(3)	(4)		
a. Personnel	\$	\$	\$ 23,848	\$	\$ 23,848	
b. Fringe Benefits			8,132		8,132	
c. Travel						
d. Equipment						
e. Supplies						
f. Contractual			100,000		100,000	
g. Construction						
h. Other						
i. Total Direct Charges (sum of 6a-6h)						
j. Indirect Charges						
k. TOTALS (sum of 6i and 6j)	\$	\$	\$ 131,980	\$	\$ 131,980	
7. Program Income	\$	\$	\$	\$	\$	

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INSTRUCTIONS FOR THE SF-424A (continued)

narrative statement the nature and source of income. The estimated amount of program income may be considered by the federal grantor agency in determining the total amount of the grant.

**Section C. Non-Federal Resources**

**Lines 8-11**--Enter amounts of non-Federal resources that will be used on the grant. If in-kind contributions are included, provide a brief explanation on a separate sheet.

**Column (a)** - Enter the program titles identical to Column (a), Section A. A breakdown by function or activity is not necessary.

**Column (b)** - Enter the contribution to be made by the applicant.

**Column (c)** - Enter the amount of the State's cash and in-kind contribution if the applicant is not a State or State agency. Applicants which are a State or State agencies should leave this column blank.

**Column (d)** - Enter the amount of cash and in-kind contributions to be made from all other sources.

**Column (e)** - Enter totals of Columns (b), (c), and (d).

**Line 12**--Enter the total for each of Columns (b)-(e). The amount in Column (e) should be equal to the amount on Line 5, Column (f) Section A.

**Section D. Forecasted Cash Needs**

**Line 13**--Enter the amount of cash needed by quarter from the grantor agency during the first year.

**Line 14**--Enter the amount of cash from all other sources needed by quarter during the first year.

**Line 15**--Enter the totals of amounts on Lines 13 and 14.

**Section E. Budget Estimates of Federal Funds Needed for Balance of the Project.**

**Lines 16-19**--Enter in Column (a) the same grant program titles shown in Column (a), Section A. A breakdown by function or activity is not necessary. For new applications and continuation grant applications, enter in the proper columns amounts of Federal funds which will be needed to complete the program or project over the succeeding funding period (usually in years). This section need not be completed for revisions (amendments, changes, or supplements) to funds for the current year of existing grants.

If more than four lines are needed to list the program titles, submit additional schedules as necessary.

**Line 20**--Enter the total for each of the Columns (b)-(e). When additional schedules are prepared for this Section, annotate accordingly and show the overall totals on this line.

**Section F. Other Budget Information**

**Line 21**--Use this space to explain amounts for individual direct object-class cost categories that may appear to be out of the ordinary or to explain the details as required by the Federal grantor agency.

**Line 22**--Enter the type of indirect rate (provisional, predetermined, final or fixed) that will be in effect during the funding period, the estimated amount of the base to which the rate is applied, and the total indirect expense.

**Line 23**--Provide any other explanations or comments deemed necessary.

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SECTION C - NON-FEDERAL RESOURCES					
(a) Grant Program	(b) Applicant	(c) State	(d) Other Sources	(e) TOTALS	
8. Canal Ranch Habitat Restoration, Phase II	\$	\$	\$	\$	
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	\$ 131,980	\$ 3,400	\$ 60,400	\$ 40,400	\$ 27,780
14. NonFederal					
15. TOTAL (sum of lines 13 and 14)	131,980	3,400	60,400	40,400	27,780
SECTION E - BUDGET ESTIMATES OF FEDERAL FUNDS NEEDED FOR BALANCE OF THE PROJECT					
(a) Grant Program	FUTURE FUNDING PERIODS (Years)				
	(b) First	(c) Second	(d) Third	(e) Fourth	
16.	\$	\$	\$	\$	
17.					
18.					
19.					
20. TOTAL (sum of lines 16-19)	\$	\$	\$	\$	
SECTION F - OTHER BUDGET INFORMATION					
21. Direct Charges:			22. Indirect Charges:		
23. Remarks:					

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