

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

Proposal Title: Franks Tract/Decker Island Wetlands Habitat Restoration
Applicant Names: California Department of Water Resources
Mailing Address: 3251 "S" Street, Sacramento, California 95816
Telephone: (916) 227-7567
Fax: (916) 227-7600
Email: Schmutte@water.ca.gov

Amount of funding requested: \$ 14,969,357 _____ 9 Years

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? Contra Costa and Solano County

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

- Sacramento River Mainstem
- Sacramento Trib: _____
- San Joaquin River Mainstem
- San Joaquin River Trib: _____
- Delta: Central 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 salmoids

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:

Ecological Processes: Natural Floodplains and Flood Processes (V I-p. 83; Target 1, Programmatic Action 1G, V II-p. 92); Bay-Delta Aquatic Food-Web (V I-p. 95; Target 1, Programmatic Action 1A, V II-p.95). Habitats: Tidal Perennial Aquatic Habitat (V I-p.111; Target 1, Programmatic Action 1E, V II-p. 96); Delta Sloughs (V I-p. 120; Target 1, Programmatic Action 1A, V II-p.98); Mid-channel Islands (V I-p. 125; Target 1, Programmatic Action 1B, VII-p. 98); Riparian and Riverine Aquatic habitats (VI-p. 147; Target 6, Programmatic

Action 6A, V II-p. 103); *Fresh Emergent Wetland* (V I-p. 136; Target 1, Programmatic Action 1E, V II-p. 100); *Freshwater Fish Habitats* (V I-p. 155; Target 1, V II-p.104); *Essential Fish Habitats* (V I-p. 160). **Species- Priority Group I:** *Delta Smelt* (V I-p. 191); *Longfin Smelt* (V I-p. 196); *Green Sturgeon* (V I-p. 203); *Splittail* (V I-p. 207); *Chinook Salmon* (V I-p. 211); *Steelhead Trout* (V I-p. 225). **Species- Priority Group II:** *California Black Rail* (V I-p. 247); *Tidal Brackish and Freshwater Marsh Special-status Plant Species* (V I-p. 271). **Species- Priority Group III:** *Sacramento Perch* (V I-p. 297); *Western Least Bittern* (V I-p. 308). **Species- Priority Group IV:** *Native Resident Fish Species* (V I-p. 345); *Bay-Delta Aquatic Foodweb Organisms* (V I-p. 349);); *Waterfowl* (V I-p. 358); *Neotropical Migratory Bird Guild* (V I-p. 362); *Tidal Brackish and Freshwater Marsh Habitat Plant Community Group* (V I-p. 371). **Harvested Species:** *Striped Bass* (V I-p. 395); *White Sturgeon* (V I-p. 401); *Non-native Warmwater Gamefish* (V I-p. 408); *Signal Crayfish* (V I-p. 414).

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

By signing below, the applicant declares the following:

- 1.) The truthfulness of all representation 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.

Curt Schmutte, Chief, Flood Protection and Geographic Information Branch

Printed name of applicant



Signature of applicant

**FRANKS TRACT/DECKER ISLAND TIDAL WETLANDS HABITAT RESTORATION
PHASES II & III: DEMONSTRATION ISLAND CONSTRUCTION & MONITORING**

TITLE PAGE

a. Title of Project:

Franks Tract/Decker Island Tidal Wetlands Habitat Restoration
Phases II & III: Demonstration Island Construction & Monitoring

b. Applicant Information:

Department of Water Resources State of California (Lead Applicant)
Contact: Curt Schmutte, Flood Protection & Geographic Info. Branch Central Dist. Chief
3251 S Street, Sacramento, CA 95816
Tel: 916-227-7567, Fax: 916-227-7600, Email: schmutte@water.ca.gov.

Moffatt & Nichol Engineers (Co-Applicant)
Contact: Richard Rhoads, P.E.
3000 Citrus Circle, Suite 230, Walnut Creek, CA 94598
Tel: 925-944-5411, Fax: 925-944-4732, Email: rrhoads@moffattnichol.com

Department of Parks & Recreation State of California (Co-Applicant)
Contact: Ronald Brean, Gold Rush Dist. Superintendent
101 J Street, Sacramento, CA 95814
Tel: 916-445-7373, Fax: 916-327-3872

Department of Fish & Game State of California (Co-Applicant)
Contact: Ed Littrell, Delta Flood Protection Program Project Manager Region II
1701 Nimbus Road, Suite A, Rancho Cordova, CA 95670
Tel: 916-358-2924, Fax: 916-358-2912, Email: elittrel@hq.dfg.ca.gov

c. Type of Organization and Tax Status:

The Department of Water Resources, Department of Parks & Recreation and the Department of Fish & Game are agencies of the State of California. Moffatt & Nichol Engineers is a private, for profit environmental engineering company.

d. Tax Identification Number:

Department of Parks & Recreation Tax Identification Number: 52-1692634
Department of Water Resources Tax Identification Number: 68-0303606
Moffatt & Nichol Engineers Tax Identification Number: 95-1951343
Department of Fish & Game State of California Tax Identification Number: 94-169756

e. Participants/Collaborators in Implementation:

Co-Applicants in Item b will enter into a formal agreement to collaborate (see MOU Exhibit VI).
Jones & Stokes Associates, Inc. – Environmental Sub-Consultants
Hultgren-Tillis Engineers – Geotechnical Sub-Consultants
Towill, Inc. – Surveying Sub-Consultant

FRANKS TRACT/DECKER ISLAND TIDAL WETLANDS HABITAT RESTORATION PHASES II & III: DEMONSTRATION ISLAND CONSTRUCTION & MONITORING

EXECUTIVE SUMMARY

- a. Project Description** – The Franks Tract/Decker Island Tidal Wetland Habitat Restoration project will create four habitat islands at Franks Tract using available borrow material from Decker Island (see exhibit 1c for the proposed location of the islands within Franks Tract). This proposal presents a unique opportunity to provide the necessary material to construct habitat islands in Franks Tract while also restoring habitat at the borrow site on Decker Island. After removing overburden spoil from Decker Island to construct habitat islands in Franks Tract, the borrow area will be re-contoured and planted to create 20-acres of tidal wetland and riparian habitat. As a result, the proposed project will create two units of tidal wetlands for every one unit of borrow material excavated from Decker Island. Also, it achieves aquatic and terrestrial benefits by utilizing lands at Decker Island that currently have limited habitat values. In fact, the existing habitat type on Decker Island consists mostly of nonnative grassland and weedy herbaceous plants.

This proposal is for the construction, construction management, and pre and post construction monitoring of the demonstration islands in Franks Tract and restoring tidal wetlands habitat on Decker Island. The creation of demonstration islands at Franks Tract requires approximately 1,000,000 cubic yards of material. Decker Island currently is 20' above sea level due to dredge spoils deposited on the island when the Sacramento River was dredged between 1917 and 1937. This overburden material is available for borrow.

- b. Primary Biological/Ecological Objectives** - The islands created at Franks Tract will provide primary ecological benefits for the CALFED priority species by restoring a total of 47 acres of existing flooded habitat to a combination of shallow tidal perennial and intertidal habitat, fresh emergent tidal wetlands habitat, and midchannel islands and shoal habitat. The primary ecological objective on Decker Island is to restore 20 acres of existing weedy non-native habitat by excavating the elevated surface of Decker Island to create a diversity of aquatic, tidal wetland, riparian, and upland habitats that have been greatly diminished in the Delta and that are sought by CALFED's ERP. The priority species which will benefit from this Project include San Joaquin River fall-run chinook salmon, winter-run salmon, spring-run salmon, Delta smelt, splittail, striped bass, steelhead trout, and migratory birds.
- c. Cost** - A cost estimate for the entire Project is provided in Exhibit III. The cost estimate has been prepared in a manner to allow CALFED maximum flexibility in funding options. To this end, Exhibit III outlines five separate stages. It is intended these stages will allow CALFED to fund individual stages or combinations of the stages as funding allows while affording CALFED the ability to fund additional stages as work progresses and funding becomes required in order to continue the Project.

**FRANKS TRACT/DECKER ISLAND TIDAL WETLANDS HABITAT RESTORATION
PHASES II & III: DEMONSTRATION ISLAND CONSTRUCTION & MONITORING**

- d. **Adverse and Third Party Impacts** - There are no third party impacts identified in connection with restoration of the borrow site on Decker Island. Some beneficial third party impacts have been identified in connection with construction of the islands at Franks Tract. Neighboring island flood protection levees will benefit due to enhanced wave sheltering. SRA Recreationists will benefit due to ecosystem restoration. State Water Agencies will benefit due to reduced risk of water quality degradation resulting from levee breaks on neighboring islands.
- e. **Applicant Qualifications** - Curt Schmutte, DWR, will act as Project Manager. He managed more than \$50 million of Delta flood control projects as well as habitat development projects, including Grizzly Slough, Decker Island Phase I, Sherman Island Berm Category III, Twitchell Island levee setback, and Lower Sacramento River Revegetation. Additionally, he was formerly the program manager of the Levee System Integrity component of CALFED.
- f. **Monitoring and Data Evaluation** - Construction monitoring will assess the efficacy of the demonstration island construction materials and methods. Pre and post ecological and biological monitoring will evaluate the overall success of the habitat restoration on the demonstration islands and Decker Island.
- g. **Local Support** - This Project is supported with the Department of Fish and Game. Local and State support, primarily due to wave suppression benefits for neighboring island levees, was apparent during the initial planning and preliminary engineering study for Franks Tract (1990). Public meetings at the time produced no opposition. The habitat restoration goals of the Project are based on the Resource Management Goals of DPR and the specific CALFED ERP objectives shown on Exhibit II.
- h. **Coordination with other Programs/Compatibility with CALFED Objectives** - The Franks Tract restoration Project is an integral part of restoring the Sacramento-San Joaquin Delta. With over 3,300 acres of open water, Franks Tract is one of the best locations in the Delta to restore and enhance aquatic habitats for various target fish species. The Project is being designed using the most up-to-date information and research that is being conducted by various state and federal resource agencies. The objectives of the Project have been specifically designed to achieve CALFED's objectives in the Delta. Additionally, the Project is consistent with SB34/AB360 and CALFED levee System Integrity Program and habitat enhancement goals in the Delta. Our proposed biological monitoring program is also compatible with CALFED's Comprehensive Monitoring and Reporting Program and will continue to reflect current knowledge and linkages between restoration activities, ecosystem enhancement and productivity.

**FRANKS TRACT/DECKER ISLAND TIDAL WETLANDS HABITAT RESTORATION
PHASES II & III: DEMONSTRATION ISLAND CONSTRUCTION & MONITORING**

PROJECT DESCRIPTION

- a. **Project Description and Approach** – The Project consists of the construction of four low habitat islands in the flooded portion of Franks Tract, where existing water depths are typically about 10 ft. at mean tide level (MTL). The islands will be constructed as either stand-alone features or by extension of existing remnant levees using stockpiled dredge spoil material (silty sands and clays) on Decker Island. The minimum Project will restore approximately 47 acres of deeply flooded habitat to shallow tidal perennial and intertidal habitat, fresh emergent tidal wetlands habitat, and midchannel islands and shoal habitat within Franks Tract. The Project will also restore the approximately 20-acre borrow site on Decker Island to meandering channels, open water, riverine aquatic bed, emergent tidal marsh, shaded riverine aquatic, riparian, and grassland/shrub habitats. The ability to restore these CALFED priority habitat types at Franks Tract and Decker Island is limited primarily by funding availability. The resource management goals of DPR favor restoration of parklands to their former (pre-modern) conditions, and are consistent with those of CALFED.

This proposal is a truly unique opportunity to create two tidal wetlands projects from one earth moving operation. After removing overburden spoils from Decker Island to construct the habitat islands in Franks Tract, the borrow area will be re-contoured to create 20-acres of suitable conditions for tidal wetland and riparian habitat development. The proposed Project achieves aquatic and terrestrial benefits by utilizing lands at Decker Island that currently have very limited habitat values. Decker Island is currently 20' above sea level due to dredge spoils that were deposited on the island when the Sacramento River was dredged between 1917 and 1937. The existing habitat type on Decker Island consists mostly of nonnative grassland and weedy herbaceous plants, such as yellow starthistle and pepperweed, and annual exotic grasses such as wild oats and soft chess.

The Franks Tract Project will be designed in such a manner as to discourage, to the maximum extent possible, the propagation of invasive species presently found in the area. To this end, the Design Team will compile information from DWR and others on the environmental conditions that enhance the growth of the Brazilian Waterweed and other nuisance aquatic plants that are found in the area. Based on the information obtained, design modifications will be implemented to reduce the potential for colonization by invasive plant species.

The Co-Applicants submitted a joint proposal to CALFED in July 1997 for funding of a phased Project to construct four demonstration islands. The first phase of this effort consisting of completion of the CEQA environmental review and initiating the permit process, and preparation of construction documents has been funded through a grant from CALFED #97-N12 in the November 1997 funding cycle. A contract for this work was negotiated with the National Fish and Wildlife Federation (NFWF) and began December 30, 1998, with completion scheduled for December 30, 1999.

FRANKS TRACT/DECKER ISLAND TIDAL WETLANDS HABITAT RESTORATION PHASES II & III: DEMONSTRATION ISLAND CONSTRUCTION & MONITORING

The co-applicants intend to proceed with the second and third phases consisting of construction and monitoring of the demonstration islands that provide primary ecosystem benefits to fish and wildlife resources, and secondary flood protection benefits for neighboring islands. These phases also includes restoring tidal wetland habitat on Decker Island. This proposal offers a unique opportunity to provide the necessary material to construct the demonstration islands and their associated habitat while also restoring habitat on Decker Island which existed prior to dredging of the Sacramento Deep Water Ship Channel. Given the substantial amount of study effort invested by DPR, the preconstruction services (Phase I) funded by CALFED, and the considerable support for the Project by the public interest groups and resource agencies that participated in numerous Project meetings in the early 1990's, the Project should be ready to start construction in less than one year.

Local and State reaction to the Project has been favorable primarily because of perceived flood protection benefits. Local concern has always existed over high levee maintenance and vulnerability due to the long open water fetches on Franks Tract. Water agency concern has existed over the risk of water quality degradation resulting from levee breaks on neighboring islands. Concerns by recreational boaters, hunters and fisherman that frequent the area were addressed in the development of the Project. However, recently fly fisherman concerned over the potential negative impact the Project could have on bass fishing within Franks Tract have voiced concern for the Project. While bass are not identified as a CALFED priority species this would appear to raise an overall concern for the CALFED program in this regard. It is believed the scale of the Project (47-acres) poses an insignificant impact to the Franks Tract site. Land uses will not be altered by the proposed Project within Franks Tract. The area has been, and will remain in Park use. Title to the land within Franks Tract and Decker Island already resides with the State of California.

- a. Proposed Scope of Work** - The proposed Scope of Work for completing Phase II of the Project, with a list of tasks and deliverable items, is presented in Exhibit V. Technical and financial reports will be prepared and submitted to CALFED on a quarterly basis for the duration of construction summarizing the progress on task completion, discussing specific problems or noteworthy events, and tracking expenditure of grant funds. Reports will be submitted annually for the ecological and biological monitoring program.
- b. Location and/or Geographic Boundaries** - The proposed Project is located at the Franks Tract State Recreation Area (SRA) in Contra Costa County and Decker Island in Solano County, as shown on Exhibit 1a. The SRA consists of two flooded Delta Tracts, Franks Tract and Little Franks Tract, as shown on Exhibit 1b. Submerged by levee breaks in the late 1930's, before its acquisition by the State, the area is bordered by

**FRANKS TRACT/DECKER ISLAND TIDAL WETLANDS HABITAT RESTORATION
PHASES II & III: DEMONSTRATION ISLAND CONSTRUCTION & MONITORING**

remnant levees and is accessible only by boat. The 20-acre restoration site on the northern tip of Decker Island is contained within 33.2 acres of land owned by the California Department of Fish and Game. Decker Island is surrounded by the Sacramento River to the northwest and Horseshoe Bend (a former meander of the Sacramento River) to the east, south, and west. The proposed site is also adjacent to a 10-acre habitat restoration site currently under development, as shown on exhibit 1d.

**FRANKS TRACT/DECKER ISLAND TIDAL WETLANDS HABITAT RESTORATION
PHASES II & III: DEMONSTRATION ISLAND CONSTRUCTION & MONITORING**

ECOLOGICAL/BIOLOGICAL BENEFITS

- a. **Ecological/Biological Benefits** - Borrow material needed for the construction of the demonstration islands will be excavated from Decker Island. The existing vegetation which will be impacted by the excavation of material consists mostly of nonnative grassland and weedy herbaceous plants, such as yellow starthistle and pepperweed, and annual exotic grasses such as wild oats and soft chess. The proposed restoration of tidal wetland habitat on Decker Island will be accomplished by excavating the elevated surface of Decker Island to create a diversity of aquatic, tidal wetland, riparian, and upland habitats that have been greatly diminished in the Delta and that are sought by CALFED's ERP. Specific goals of the Project include the following:
- 1) Creation of native habitat found in the Delta region, including meandering channels, open water, riverine aquatic bed, emergent tidal marsh, shaded riverine aquatic, riparian, and grassland/shrub habitats.
 - 2) Demonstrate opportunities for the beneficial reuse of dredge materials.
 - 3) Demonstrate construction techniques, engineering feasibility, and design concepts that may be applied to future restoration actions.
 - 4) Creation of habitat important to sustain many species of wildlife native to the Delta.
 - 5) Development of a site that has continuity and connection to fluvial processes of the Delta.
 - 6) Creation of self-sustaining habitats that need little human intervention.
 - 7) Improvement of water quality.
 - 8) Re-creation of a portion of the natural heritage environment to the Delta.
 - 9) Utilization of principals of adaptive management in which lessons learned in the earlier phases of the Project will be incorporated into the later phases.

Franks Tract is currently flooded over 95% of its area. The existing water depths average 10 feet but vary from 7 feet MTL in the shallow portions, to 20 feet MTL in the deeper portions where peat mining (prior to the levee breaks) once occurred. The proposed Project will restore 47 acres of deeply flooded habitat to a combination of specific CALFED priority habitat types. Considering the 3300 acre expanse of Franks Tract, the loss of some subtidal habitat is more than compensated by the benefits associated with creation of the priority habitat types and the added diversity. Exhibit II identifies the specific CALFED ERP objectives that are targeted by this Project. The primary benefits of the Project are all those benefits directly or indirectly associated with the habitat restoration both to CALFED and to the resource management goals of the DPR. The secondary benefits are flood protection for adjacent islands in the form of wave sheltering for the fragile levees, and recreation in the form of opportunity for the public to experience the Delta in a restored state. Furthermore, implementation of the proposed Project has progressed due to the funding provided by DPR and by CALFED. The opportunity exists for CALFED to obtain tangible benefits for the targeted species relatively quickly, and to apply the ERP adaptive management approach for the benefit of future restoration projects.

FRANKS TRACT/DECKER ISLAND TIDAL WETLANDS HABITAT RESTORATION PHASES II & III: DEMONSTRATION ISLAND CONSTRUCTION & MONITORING

The biological justification for the Project are the tangible benefits for the CALFED priority species that would result from the restoration of a portion of the deeply flooded habitat on Franks Tract to shallow tidal perennial and intertidal habitat, fresh emergent tidal wetlands habitat, and midchannel islands and shoal habitat.

Dredge Material Islands (DMI's) similar to those in the proposed Project have been constructed by the U.S. Army Corps of Engineers at Venice Cut and Donlon Islands using dredged material from the Stockton Deepwater Channel project. These islands are also noteworthy because of the monitoring that preceded and followed their construction about 9 years ago, which documents the Corps' largely successful effort to restore midchannel island and shoal habitat. The tidal wetland design parameters that allowed the targeted plant and animal communities to be established on the DMI's were used by MNE in the preliminary engineering for the Project.

The durability of the Project is a concern because the island sites on Franks Tract are relatively exposed to long open water fetches. The coastal engineering expertise of MNE in wind wave analyses, 'soft' techniques for shoreline stabilization, and sediment transport processes served as the basis for selecting island sites and stable island configurations. Techniques to facilitate rapid establishment of shoreline vegetation were incorporated in the Project for ecosystem as well as engineering reasons. By providing monitoring and pro-active resource management by a dedicated Resources Agency in the post-construction phase, the long term benefits to the ecosystem can be assured.

The Project differs from other similar Projects in that for every one unit of borrow material that is excavated from Decker Island, two units of habitat will be created. Also, due to the flooding of Franks Tract in the late 1930's, and cessation of agricultural activities, the subtidal elevations in the tract are on average only 10 ft. below MTL, rather than 15 ft. to 20 ft. as on most other reclaimed tracts, greatly reducing the volume of fill needed to develop the proposed islands. The concern over flooding of agricultural tracts and the consequences on water quality should not be an issue at Franks Tract, since it has been flooded for nearly 60 years. Finally, land acquisition is not an issue, since the lands on both Franks Tract and Decker island are already in State ownership.

The proposed Project is a continuing project. The concept of constructing dredge material islands was incorporated into the General Plan for the SRA prepared in 1989, and the feasibility of the concept was demonstrated by a 1990 MNE study. Approximately \$350,000 has been invested into island planning and preliminary engineering by DPR. CALFED has invested \$232,250 in Phase I Pre-Construction Services.

FRANKS TRACT/DECKER ISLAND TIDAL WETLANDS HABITAT RESTORATION PHASES II & III: DEMONSTRATION ISLAND CONSTRUCTION & MONITORING

The development of the proposed Project by DPR included numerous meetings with the public and representatives of the various resource agencies. Reaction to the proposed demonstration islands was favorable, and no apparent opposition to the Project emerged.

- b. Linkages** - This proposal is for the second phase of the Franks Tract Restoration Project. Phase I is focused primarily with planning and permitting issues. The current status of the Project is that the team is nearing completion of the Project's CEQA document and has had a pre-application meeting with the US Army Corps of Engineers Sacramento District. The estimated date for certification of the initial study/mitigated negative declaration and receipt of the Clean Water Act Section 404 permit is June or July 1999. The restoration Projects goals and objectives are similar to other CALFED funded projects in the Delta including Prospect Island, Sherman Island Demonstration Project, Tyler Island Levee Protection and Habitat Restoration project and the San Francisco Estuary Projects In-Channel Islands Project. These projects all have a common theme and a special restoration focus. Many are being designed under different hydrologic and hydraulic conditions that will facilitate our understanding of restoring wildland habitats in the dynamic Delta environment. The Project also has strong ties to the Ecosystem Restoration Program goals and objectives through the restoration of tidal and intertidal marsh habitats and associated functions in the food chain.
- c. System Wide Ecosystem Benefits** - The Franks Tract/Decker Island Restoration Project will have synergistic ecosystem benefits by improving and expanding the available habitat for Delta smelt, splittail and anadromous fish species that pass through the Delta. Upstream projects that are improving the spawning ground for salmon and steelhead will benefit from the nursery habitat that is created at Franks Tract/Decker Island. Restoration projects in the Delta will have a cumulative beneficial effect with this Project by increasing the available habitat in the Delta for both aquatic and terrestrial target species.
- d. Compatibility with Non-Ecosystem Benefits** - The Franks Tract Project is compatible with CALFED's overall objective to improve water supply reliability, water quality and ecosystem health. The wave protection afforded from the proposed islands will reduce the probability of Bethel Island levee failure and concurrent water quality impacts in the Delta. Water quality conditions should also improve with establishment of tidal wetlands in Franks Tract. Turbidity and suspended solids concentrations should decrease and water clarity should improve over time from the increased hydraulic residence time from established tidal wetlands.

**FRANKS TRACT/DECKER ISLAND TIDAL WETLANDS HABITAT RESTORATION
PHASES II & III: DEMONSTRATION ISLAND CONSTRUCTION & MONITORING**

TECHNICAL FEASIBILITY AND TIMING

- a. Other Alternatives** – There are few alternatives to the Franks Tract restoration project that don't have direct or indirect impacts to the agricultural community. Large-scale tidal wetland creation in the central Delta is not possible without impacting agriculture. Creation of mid-channel islands and other similar projects are being planned but are generally small-scale projects. The available area for tidal wetland conversion is significant and is a key area of the Delta. Alternatives could include breaching levees on other nearby islands and inundating existing productive farmland that will have several third-party impacts. The Franks Tract project is a win-win project because it does not require expensive land acquisition and does not impact agriculture.
- b. CEQA Documentation and Permits** - The Franks Tract team is nearing completion of DPR's initial study/mitigated negative declaration and has conducted a Clean Water Act Section 404 permit pre-application meeting with the Corps. We expect to have a certified MND by June or July 1999 and be ready to complete the permitting process. Funding from this proposal is crucial to finishing the permit process in Phase II. The Phase I budget was to begin the permitting process and additional funding is now needed to complete the process. Several permits and approvals are needed for the project including a 404 permit, CWA 401 certification, CDFG 1601 permit, CESA and ESA compliance. If funding is not provided in this PSP, the project will be stalled for a year or more unless additional funding sources are secured.
- DWR has received approval from various agencies to allow construction of 10-acres of habitat at the northern tip of Decker Island. This includes a formal agreement with DFG to create habitat on Decker Island, U.S. Army Corps of Engineers 404 Letter of Permission, DFG 1601 Agreement, U.S. Fish and Wildlife Section 7 consultation, Regional Water Quality Control Board 401 Certification or Waiver, and approval from the State Lands Commission. If the Franks Tract/Decker Island Tidal Wetlands Habitat Restoration is selected for funding, all permits/agreements will be modified and resubmitted to allow for a 20-acre expansion of the Project.
- c. Implementation Issues** - Due to the planning and engineering already underway, implementation of the proposed Project is relatively straightforward. Based on comments received during preliminary agency consultations, the Franks Tract Demonstration Project appears to have no significant regulatory concerns. In 1990 several public meetings were conducted and no apparent opposition to the proposed Project surfaced. The restoration of the priority habitat types by construction of islands at Franks Tract does not appear to conflict with, or compromise CALFED's mission, or its developing implementation strategy.

**FRANKS TRACT/DECKER ISLAND TIDAL WETLANDS HABITAT RESTORATION
PHASES II & III: DEMONSTRATION ISLAND CONSTRUCTION & MONITORING**

MONITORING AND DATA COLLECTION

- a. Biological/Ecological Objectives** - The islands created at Franks Tract along with the habitat created at Decker Island will provide primary ecological benefits for the CALFED priority species by restoring a total of 47 acres of habitat to a mixture of shallow tidal perennial and intertidal habitat, fresh emergent tidal wetlands habitat, and midchannel islands and shoal habitat. The primary ecological objective on Decker Island is to restore 20 acres of existing weedy non-native habitat by excavating the elevated surface of Decker Island to create a diversity of aquatic, tidal wetland, riparian, and upland habitats that are sought by CALFED's ERP. The priority species which will benefit from this Project include San Joaquin River fall-run chinook salmon, winter-run salmon, spring-run salmon, Delta smelt, splittail, striped bass, steelhead trout, and migratory birds.
- b. Monitoring Parameters and Data Collection Approach** - Pre and post-construction Monitoring is necessary to demonstrate the efficacy of the proposed demonstration islands in restoring the targeted habitat types and aiding the targeted species. The monitoring program is being defined during Phase I. The task of monitoring construction activity is included with Phase II work. As a demonstration project, the monitoring will not only be directed at the usual concern over conformance by the construction contractor with the requirements of the plans and specifications, but also with evaluation of the innovative engineering features incorporated in the design. Since this Project has no predetermined or mandated ecological results, the monitoring plan is oriented toward examining overall ecological function without specific success criteria. The goal is to recreate tidal system function and thereby a diversity of aquatic, tidal wetland, riparian and upland habitat complexes sought by CALFED's ERP. Since this Project may establish procedures and methodologies for recreating pre-existing tidal tidal wetlands in the Delta, it is important that the monitoring plan evaluate the Projects technological and environmental merits. Ultimately, the monitoring plan will correlate the physical and biological elements to explain and support the ecological function and benefits of the resultant Project. All aspects of the monitoring plan will be coordinated with DFG, USFWS, NMFS and other interested parties.
- c. Data Evaluation Approach** - We have preliminarily established a biological monitoring program that serves to answer our hypothesis about fish abundance and island creation. We will also be monitoring water quality and vegetation conditions. We propose to conduct an intensive pre-Project monitoring program to serve as the baseline conditions with which to compare with post-Project data. Data will be analyzed using a variety of statistical approaches including the standard t-test, analysis of variance (ANOVA) and other biostatistical tools. See Exhibit VIII for additional monitoring and data collection information. Our approach is to determine whether island creation has a net increase in fish abundance and terrestrial species both seasonally and annually.

**FRANKS TRACT/DECKER ISLAND TIDAL WETLANDS HABITAT RESTORATION
PHASES II & III: DEMONSTRATION ISLAND CONSTRUCTION & MONITORING**

LOCAL INVOLVEMENT

- a. County Notification** - The Delta Protection Commission, Solano County, and Contra Costa County have been notified of the Project. Copies of the notification letters are included as Exhibits VIIa, VIIb, and VIIc.
- b. Local Support** - This project is supported with the Department of Fish and Game who owns the land on Decker Island and Department of Parks and Recreation who owns the land on Franks Tract. DFG will play an active role in the planning, design, and construction of the project to ensure that the project goals are met. Additionally, the project is consistent with SB 34/AB 360 and CALFED Levee System Integrity Program and habitat enhancement goals in the Delta.
- c. Adjacent Landowners** - Megasand, the landowner on Decker Island adjacent to the proposed restoration project, has been notified of the project (Exhibit VIIId). Megasand has outlined a similar restoration project in the Reclamation Plan completed for the borrow activity on their land. Landowners adjacent to Franks Tract will receive wave protection benefits from the Project.
- d. Public Outreach** - When DPR first developed the concept of creating demonstration islands within Franks Tract in the early 1990's, several public meetings were held with adjacent landowners and newsletters were published and distributed to the public to inform them of the proposed improvements.
- e. Potential Third Party Impacts** - No third party impacts were identified in connection with the restoration of Decker Island. However, some beneficial third party impacts have been identified in connection with creation of habitat islands in Franks Tract. There will be a beneficial impact on local reclamation districts due to wave sheltering that will reduce levee vulnerability and maintenance. There will be a net beneficial impact on boaters, hunters and fisherman due to ecosystem restoration, although loss of some deeply flooded habitat will concern bass fishermen. Since bass are an introduced predatory species impacts to them are not inconsistent with CALFED's ERP goals. There will be a beneficial impact for water purveyors due to the reduced risk of levee failure on neighboring islands. A levee failure on any one of the neighboring islands would result in adverse impacts on Delta water quality. Based on the public participation process conducted by DPR during the planning and preliminary engineering for the Project, the Project appears to be self-mitigating with no known opposition. The environmental certification and permit process should provide sufficient opportunity for public interest and resource agency review of this Project.

**FRANKS TRACT/DECKER ISLAND TIDAL WETLANDS HABITAT RESTORATION
PHASES II & III: DEMONSTRATION ISLAND CONSTRUCTION & MONITORING**

COST

- a. Budget** - A cost estimate for the entire Project is provided in Exhibit III. The cost estimate has been prepared in a manner to allow CALFED maximum flexibility in funding options. To this end, Exhibit III outlines five separate stages. It is intended these stages will allow CALFED to fund individual stages or combinations of the stages as funding allows while affording CALFED the ability to fund additional stages as work progresses and funding becomes required in order to continue the Project.

As a minimum, CALFED would need to fund Stage 1 - Pre-Construction Services. This would enable DWR to complete the environmental review, permitting, and design work that was started in the Phase 1: Franks Tract Project funded by CALFED in November 1997. Additional Stages could be funded at this time depending on available funding. The schedule for the Project, Exhibit IV, envisions constructing one Demonstration Island per year following completion of Stage 1. All pricing contained within Exhibit III is based on 1999 billing rates. Due to the uncertainty of selection for funding, execution of a contract, and subsequent funding of Stages (if any), and the lengthy time spans associated with a staged approach as well as ongoing monitoring requirements, the Applicant and associated Team members believed it was more appropriate to base their funding request on 1999 pricing levels rather than add arbitrary cost-of-living estimates. As Stages are funded the Project Team would request contract modifications to address cost-of-living increases to compensate for pricing increases at the time funding is awarded and work is began.

- b. Schedule** - Exhibit IV outlines the anticipated schedule for the Project. This schedule is preliminary since it is unclear how many Stages will be funded by CALFED initially as well as the timing for any future funding opportunities. However, the belief is that islands could be constructed at a minimum rate of one per year. The schedule reflects such a belief and incorporates anticipated environmental windows for construction.

**FRANKS TRACT/DECKER ISLAND TIDAL WETLANDS HABITAT RESTORATION
PHASES II & III: DEMONSTRATION ISLAND CONSTRUCTION & MONITORING**

COST-SHARING

- a. Funding Commitments** -Based on legislative appropriations, the SB 34/AB 360 Delta Levee Program intends to commit at least 30% of the requested amount to fund construction of the Project.

**FRANKS TRACT/DECKER ISLAND TIDAL WETLANDS HABITAT RESTORATION
PHASES II & III: DEMONSTRATION ISLAND CONSTRUCTION & MONITORING**

APPLICANT QUALIFICATIONS

- a. Team Organization** - DWR will provide overall project management. MNE will provide engineering support. JSA will provide environmental and permitting support as well as performing all water quality and biological monitoring. HTE will provide geotechnical engineering support. Towill will perform all necessary surveying.
- b. Department of Water Resources** - Curt Schmutte, DWR, will act as Project Manager. He managed more than \$50 million of Delta flood control projects as well as habitat development projects, including Grizzly Slough, Decker Island Phase I, Sherman Island Berm Category III, Twitchell Island Category III "Learning Laboratory", Twitchell Island levee setback, and Lower Sacramento River Revegetation. Additionally, he was formerly the program manager of the Levee System Integrity component of CALFED.

The Division of Engineering within DWR will perform the construction contract administration and inspection for this project. The Division of Engineering currently completes approximately \$80 million of construction work on an annual basis and has extensive experience in the Delta and was responsible for the recent construction of the Franks Tract Wave Wall.

- c. Moffatt & Nichol Engineers** - Restoration of tidal wetlands requires expertise in various engineering disciplines. A feasible design draws from the experience of civil and hydrologic engineers, combined with tidal wetland biologists and coordinated with the resource agencies to form a workable solution.

Key elements involved in a tidal wetlands project include dredging and disposal plan, vegetation plan, utility relocation, hydraulics, and culvert design. Moffatt & Nichol Engineers has experience in each of the areas and includes the development and application of hydrodynamic and water quality modeling. Models have been developed and calibrated in tidal wetlands specifically for the design of tidal wetlands. Modeling using accurate dynamic algorithms and prototype data are invaluable aids in the design process.

Moffatt & Nichol Engineers provides a wide range of services, with one of the largest coastal engineering staffs in the United States, complemented by an experienced civil and hydrologic engineering staff, the firm is capable of handling large and diverse tidal wetlands restoration projects. We have a rapport with resource agencies and have worked with the leading biologists in the area to study and design tidal wetlands. Tidal wetland restoration is a service which Moffatt & Nichol Engineers provide with the same dedication that has earned us national recognition as a leader in waterfront facility design for over 50 years.

**FRANKS TRACT/DECKER ISLAND TIDAL WETLANDS HABITAT RESTORATION
PHASES II & III: DEMONSTRATION ISLAND CONSTRUCTION & MONITORING**

- d. Jones & Stokes Associates (Environmental Subconsultant)** - The Jones & Stokes Associates Team is experienced in environmental restoration, including planning, design, and construction. Team members have worked together on numerous projects. Our greatest ability is to integrate restoration opportunities with flood control designs to achieve both flood control protection and environmental restoration. The Jones & Stokes Associates Team provides multidisciplinary services to meet the objectives of natural resource management, habitat restoration and mitigation, and environmental compliance and permitting. Our Team has acquired extensive experience in restoring riparian systems and tidal wetland communities by designing, implementing, maintaining, and monitoring restoration projects throughout California. We have developed a habitat restoration philosophy that is a systems-based approach, integrating the vegetation and wildlife resources of the restored habitat into the surrounding landscape and connecting watersheds. We have been involved with creating and restoring over 1,100 acres of tidal wetlands and riparian communities in the last 6 years.
- e. Hultgren-Tillis Engineers** - HTE has been involved with the Franks Tract project since the early 1990's. They are currently retained by MNE for the Phase I of Franks Tract due to their specialty experience and knowledge associated with placing fill on compressible soils within the Delta.
- f. Towill, Inc.** - Towill has also been involved with the Franks Tract project since the early 1990's having performed the original surveys. Their prior knowledge of the location provides them critical familiarity and access to existing data other similar firms would not have access to.

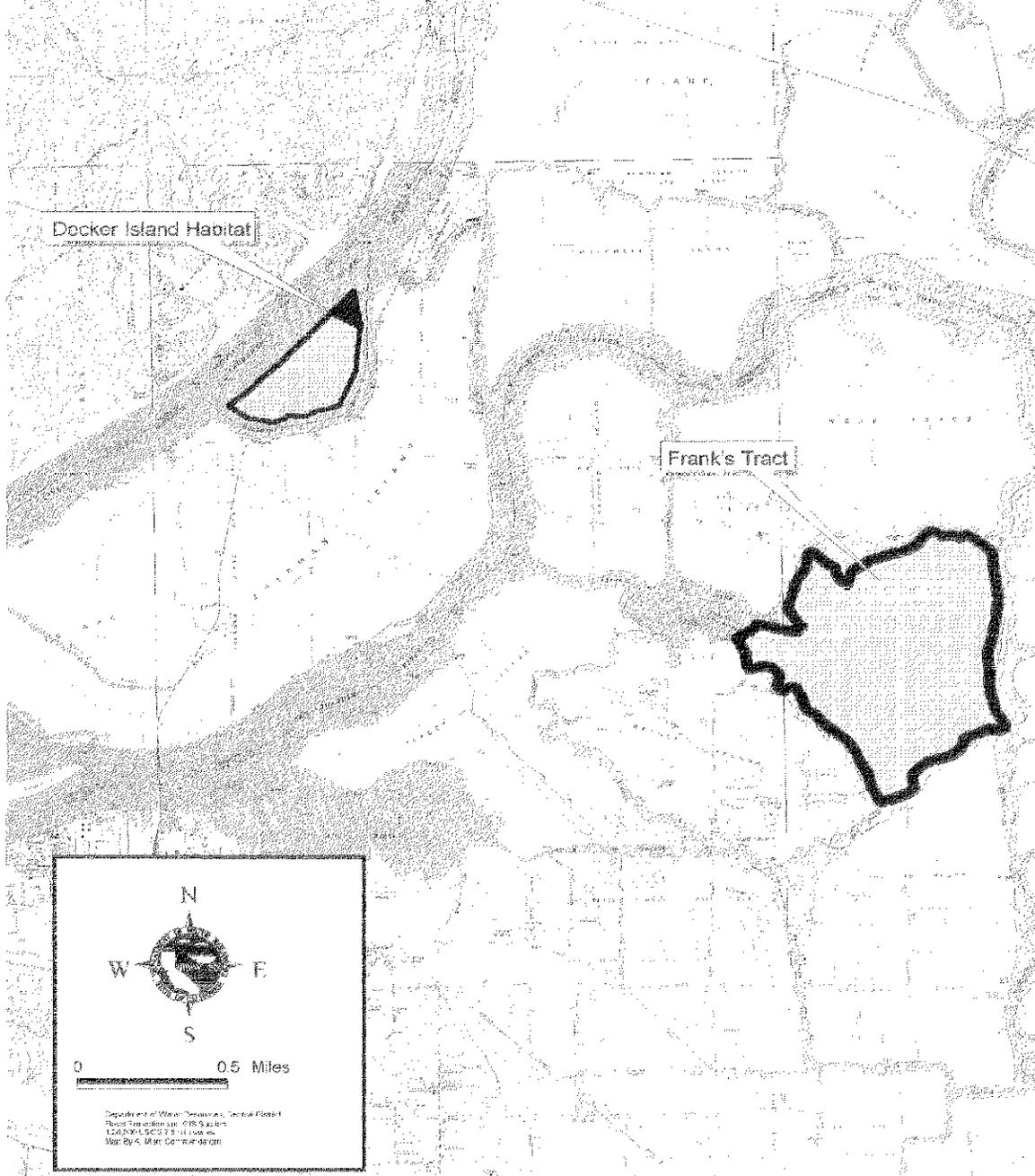
**FRANKS TRACT/DECKER ISLAND TIDAL WETLANDS HABITAT RESTORATION
PHASES II & III: DEMONSTRATION ISLAND CONSTRUCTION & MONITORING**

COMPLIANCE WITH STANDARD TERMS AND CONDITIONS

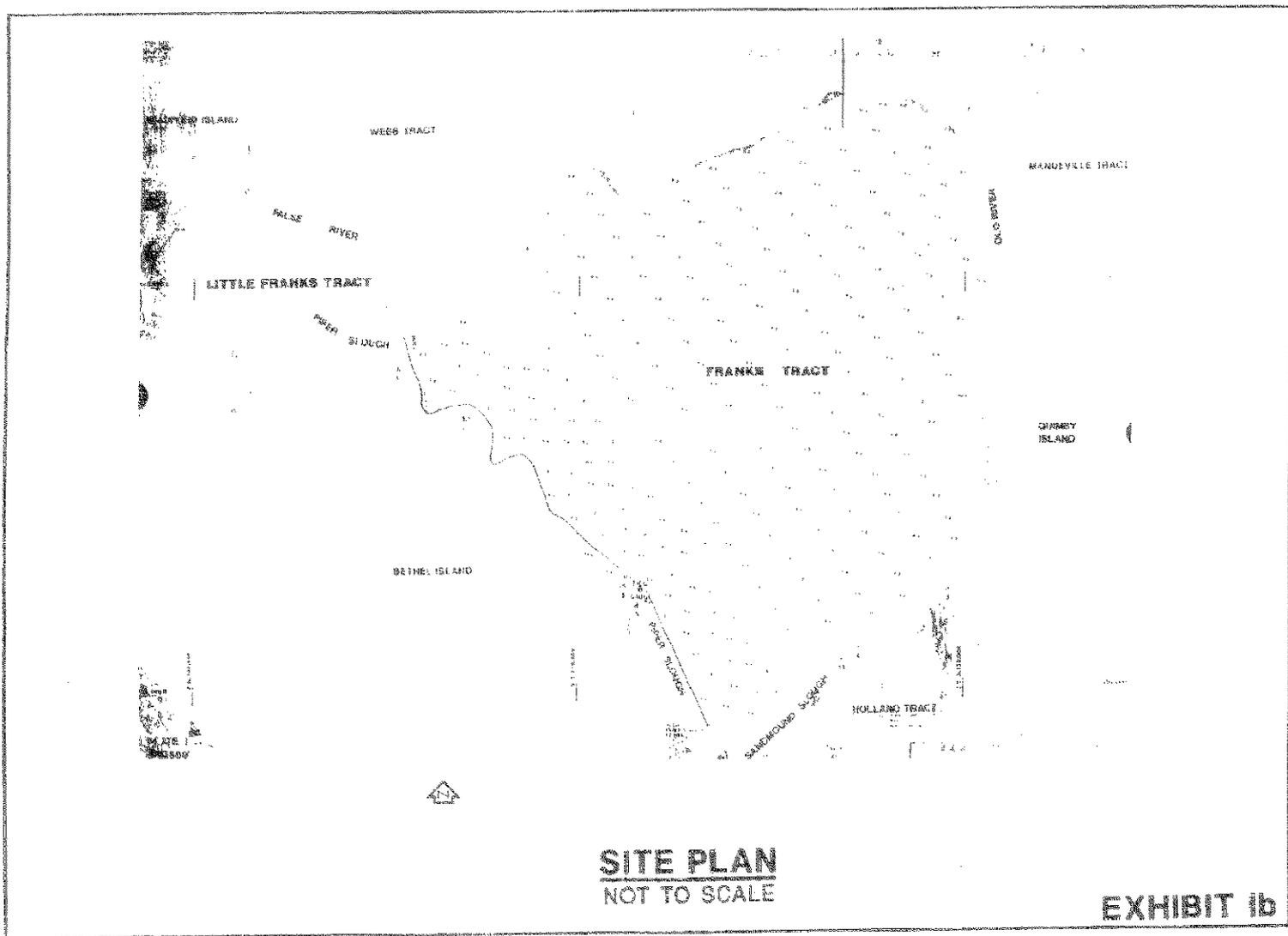
The Project will fully comply with all applicable terms and conditions. The lead agency for this Project is DWR, a State Agency, therefore, proof of compliance will be submitted before or at the time of final contract.

EXHIBITS

Location of Decker Island and Frank's Tract

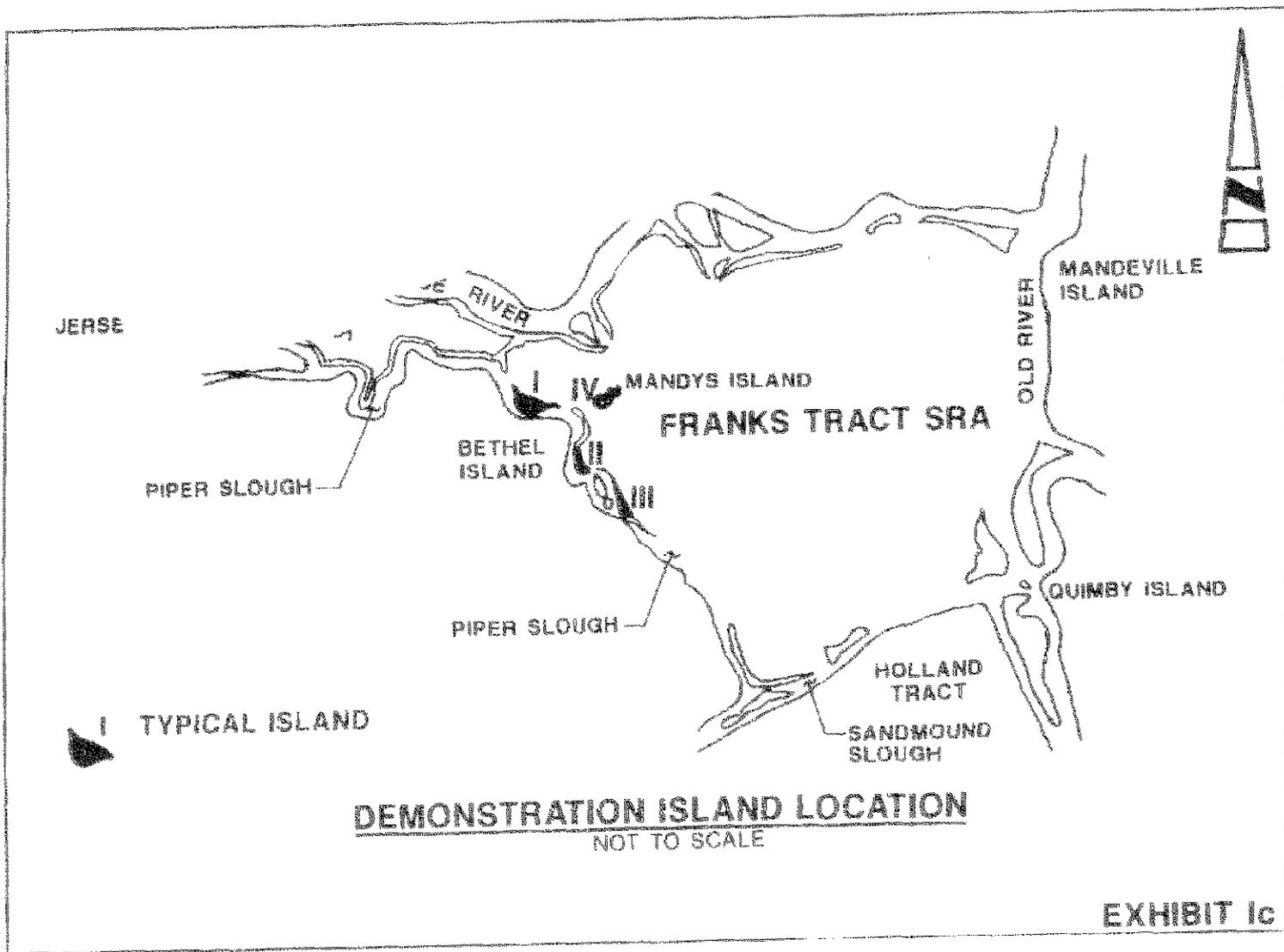


1-014071



1-014071

I-014072



I-014072

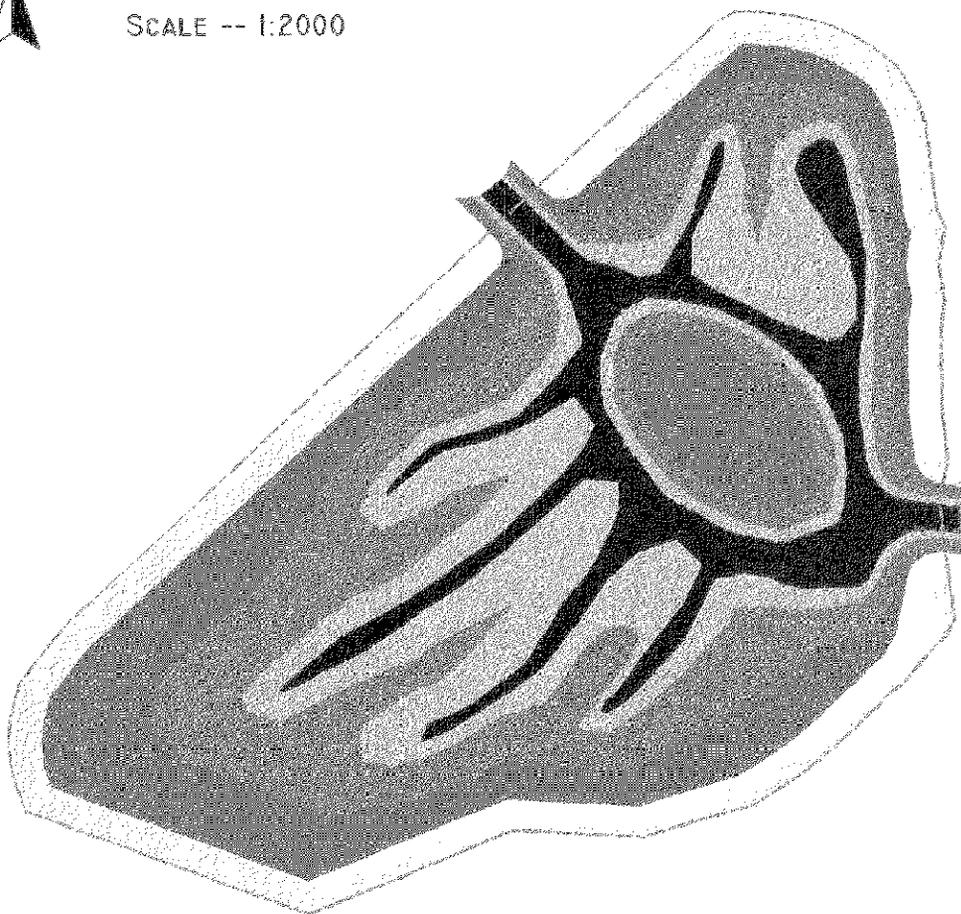
DECKER ISLAND HABITAT RESTORATION PROJECT CURRENTLY BEING DEVELOPED

-  SHALLOW WATER (-6' TO -5')
-  RIVERINE AQUATIC BED (-5' TO -1')
-  EMERGENT TIDAL MARSH (-1' TO 2')
-  SHADED RIVERINE AQUATIC (2' TO 6')
-  RIPARIAN FOREST (6' TO 8')
-  GRASSLAND/SHRUB (8' TO ~21' (PROJECT BOUNDARY))



100 0 100 200 FEET

SCALE -- 1:2000



**FRANKS TRACT/DECKER ISLAND WETLANDS HABITAT RESTORATION
PHASE'S II&III: DEMONSTRATION ISLAND CONSTRUCTION AND MONITORING**

ERP Objectives

This proposal meets the ERP objectives outlined in Volume 1:

ECOSYSTEM PROCESSES:

- natural floodplains (p. 83)
- Bay-Delta aquatic food-web (p. 95)

HABITATS:

- tidal perennial aquatic habitat (p. 111)
- delta sloughs (p. 120)
- mid-channel islands (p. 125)
- fresh emergent vegetation (p.136)
- freshwater fish habitats (p. 155)
- essential fish habitats (p. 160)

SPECIES: (Priority Group I)

- delta smelt (p. 191)
- longfin smelt (p. 196)
- green sturgeon (p. 203)
- splittail (p.207)
- chinook salmon (p. 211)
- steelhead trout (p. 225)
- three Priority Group II species
- two Priority Group III species
- six Priority Group VI species
- five harvested species

EXHIBIT II

**FRANKS TRACT/DECKER ISLAND WETLANDS HABITAT RESTORATION
PHASES II & III: DEMONSTRATION ISLAND CONSTRUCTION & MONITORING**

Prepared for: CALFED
Prepared by: Department of Water Resources
Submitted: April 16, 1999

Budget Summary

Task No.	Task/Subtask Description	Direct Labor Hours	Total Department of Water Resources	Overhead Labor (General, Admin and Fee)	Service Contracts	Material and Acquisition Contracts	Miscellaneous and Other Direct Costs	Task Total
1.00	STAGE 1 - PRE-CONSTRUCTION SERVICES							
1.01	Final Permitting	0	\$ -	\$ -	\$ 196,076	\$ -	\$ 19,607	\$ 215,683
1.01.01	Continue Habitat Restoration Plan		\$ -	\$ -	\$ 27,380	\$ -	\$ 2,738	\$ 30,118
1.01.02	Continue Section 404 Permit Process		\$ -	\$ -	\$ 19,780	\$ -	\$ 1,978	\$ 21,758
1.01.03	Continue Section 404 (b)(1) Alternatives Analysis		\$ -	\$ -	\$ 7,433	\$ -	\$ 743	\$ 8,176
1.01.04	Assist Corps w/Public Notice and Response to Comments		\$ -	\$ -	\$ 6,429	\$ -	\$ 643	\$ 7,072
1.01.05	Assist w/Federal ESA Compliance		\$ -	\$ -	\$ 17,313	\$ -	\$ 1,731	\$ 19,044
1.01.06	Assist w/State ESA Consultations		\$ -	\$ -	\$ 14,539	\$ -	\$ 1,454	\$ 15,993
1.01.07	Assist w/Section 401 Compliance		\$ -	\$ -	\$ 14,266	\$ -	\$ 1,427	\$ 15,693
1.01.08	Assist w/Section 106 Compliance		\$ -	\$ -	\$ 2,344	\$ -	\$ 234	\$ 2,578
1.01.09	Assist w/Streambed Alteration Agreement Section 1601 Process		\$ -	\$ -	\$ 2,780	\$ -	\$ 278	\$ 3,058
1.01.10	Attend Project Team and Agency Meetings		\$ -	\$ -	\$ 8,102	\$ -	\$ 810	\$ 8,912
1.01.11	Assist w/5-Year Physical and Vegetative Biological Monitoring Program		\$ -	\$ -	\$ 75,710	\$ -	\$ 7,571	\$ 83,281
1.02	Preliminary Biological Monitoring	0	\$ -	\$ -	\$ 55,000	\$ -	\$ 5,500	\$ 60,500
1.02.01	Prepare Specific Biological Monitoring Program		\$ -	\$ -	\$ 5,500	\$ -	\$ 550	\$ 6,050
1.02.02	Perform Pre-Construction Monitoring		\$ -	\$ -	\$ 49,500	\$ -	\$ 4,950	\$ 54,450
1.03	Final Design of Decker Island	400	\$ 32,000	\$ -	\$ 61,235	\$ -	\$ 9,324	\$ 102,559
1.03.01	Revise Final Design to Incorporate Permit Requirements	320	\$ 26,600	\$ -	\$ 34,155	\$ -	\$ 5,976	\$ 65,731
1.03.02	Prepare Decker Island Grading Plan		\$ -	\$ -	\$ 27,080	\$ -	\$ 2,708	\$ 29,788
1.03.03	Perform Design Review QA/QC	80	\$ 6,400	\$ -	\$ -	\$ -	\$ 640	\$ 7,040
1.04	Solicit Construction Bids	1,075	\$ 85,974	\$ -	\$ 9,320	\$ -	\$ 9,530	\$ 104,824
1.04.01	Prepare Solicitation & Advertise Project for Bid	195	\$ 15,632	\$ -	\$ -	\$ -	\$ 1,563	\$ 17,195
1.04.02	Conduct Pre-Bid Meeting	98	\$ 7,816	\$ -	\$ 1,000	\$ -	\$ 882	\$ 9,698
1.04.03	Respond to Contractor Questions & Issue Addenda	195	\$ 15,632	\$ -	\$ 3,880	\$ -	\$ 1,951	\$ 21,463
1.04.04	Conduct Bid Opening	98	\$ 7,816	\$ -	\$ 1,000	\$ -	\$ 882	\$ 9,698
1.04.05	Review Bids & Award Contract	391	\$ 31,263	\$ -	\$ -	\$ -	\$ 3,126	\$ 34,389
1.04.06	Conduct Pre-Construction Meeting	98	\$ 7,816	\$ -	\$ 3,440	\$ -	\$ 1,126	\$ 12,382
1.00	SUB-TOTAL STAGE 1	1,475	\$ 117,974	\$ -	\$ 321,631	\$ -	\$ 43,961	\$ 483,566

EXHIBIT III

1-014075

1-014075

**FRANKS TRACT/DECKER ISLAND WETLANDS HABITAT RESTORATION
PHASES II & III: DEMONSTRATION ISLAND CONSTRUCTION & MONITORING**

Prepared for: CALFED
Prepared by: Department of Water Resources
Submitted: April 16, 1999

Budget Summary

Task No.	Task/Subtask Description	Direct Labor Hours	Total Department of Water Resources	Overhead Labor (General, Admin and Fee)	Service Contracts	Material and Acquisition Contracts	Miscellaneous and Other Direct Costs	Task Total
2.00	STAGE 2 - ISLAND #1 CONSTRUCTION & MONITORING							
2.01	Construction of Island #1				\$ 11,525	\$ 3,774,250	\$ 1,153	\$ 3,786,928
2.01.01	Mobilization/Demobilization (25% of Const. Costs)					\$ 281,250		
2.01.02	Excavation on Decker Island (300,000 cy @ \$3.00/cy)					\$ 900,000		
2.01.03	Load on Barge (300,000 cy @ \$0.75/cy)					\$ 225,000		
2.01.04	Transport to Franks Tract (300,000 cy @ \$3.00/cy)					\$ 900,000		
2.01.05	Hydraulically Unload and Place (300,000 cy @ \$4.00/cy)					\$ 1,200,000		
2.01.06	Island Planting at Franks Tract					\$ 268,000		
2.02	Construction Management & Inspection Services	3,919	\$ 313,520		\$ 189,346		\$ 50,287	\$ 553,153
2.03	Engineering Support				\$ 37,889		\$ 3,787	\$ 41,656
2.04	Geotechnical Support				\$ 30,553		\$ 3,055	\$ 33,608
2.05	Water Quality Monitoring (3 yrs)				\$ 69,000		\$ 6,900	\$ 75,900
2.06	Post-Construction Biological (Fishery) Monitoring (3 yrs)				\$ 150,000		\$ 15,000	\$ 165,000
2.07	Prepare Demonstration Project Evaluation Final Report	60	\$ 4,800		\$ 20,380		\$ 2,518	\$ 27,698
2.00	SUB-TOTAL STAGE 2	3,979	\$ 318,320	\$ -	\$ 508,674	\$ 3,774,250	\$ 82,700	\$ 4,683,944
3.00	STAGE 3 - ISLAND #2 CONSTRUCTION & MONITORING							
3.01	Construction of Island #2				\$ 10,725	\$ 2,045,250	\$ 1,073	\$ 2,057,048
3.01.01	Mobilization/Demobilization (10% of Const. Costs)					\$ 83,750		
3.01.02	Excavation on Decker Island (170,000 cy @ \$3.00/cy)					\$ 510,000		
3.01.03	Load on Barge (170,000 cy @ \$0.75/cy)					\$ 127,500		
3.01.04	Transport to Franks Tract (170,000 cy @ \$3.00/cy)					\$ 510,000		
3.01.05	Hydraulically Unload and Place (170,000 cy @ \$4.00/cy)					\$ 680,000		
3.01.06	Island Planting at Franks Tract					\$ 154,000		
3.02	Construction Management & Inspection Services	2,142	\$ 171,360		\$ 102,852		\$ 27,421	\$ 301,633
3.03	Engineering Support				\$ 20,570		\$ 2,057	\$ 22,627
3.04	Geotechnical Support				\$ 28,584		\$ 2,858	\$ 31,442
3.05	Water Quality Monitoring (3 yrs)				\$ 103,000		\$ 10,300	\$ 113,300
3.06	Post-Construction Biological (Fishery) Monitoring (3 yrs)				\$ 150,000		\$ 15,000	\$ 165,000
3.07	Prepare Demonstration Project Evaluation Final Report	60	\$ 4,800		\$ 20,380		\$ 2,518	\$ 27,698

FYHIRIT III

1-014076

1-014076

**FRANKS TRACT/DECKER ISLAND WETLANDS HABITAT RESTORATION
PHASES II & III: DEMONSTRATION ISLAND CONSTRUCTION & MONITORING**

Prepared for: CALFED
Prepared by: Department of Water Resources
Submitted: April 16, 1999

Budget Summary

Task No.	Task/Subtask Description	Direct Labor Hours	Total Department of Water Resources	Overhead Labor (General, Admin and Fee)	Service Contracts	Material and Acquisition Contracts	Miscellaneous and Other Direct Costs	Task Total
3.00	SUB-TOTAL STAGE 3	2,202	\$ 176,160	\$ -	\$ 436,112	\$ 2,045,250	\$ 61,227	\$ 2,718,749
4.00	STAGE 4 - ISLAND #3 CONSTRUCTION & MONITORING							
4.01	Construction of Island #3				\$ 11,525	\$ 4,213,750	\$ 1,153	\$ 4,226,428
4.01.01	Mobilization/Demobilization (10% of Const. Costs)					\$ 131,250		
4.01.02	Excavation on Decker Island (350,000 cy @ \$3.00/cy)					\$ 1,050,000		
4.01.03	Load on Barge (350,000 cy @ \$0.75/cy)					\$ 262,500		
4.01.04	Transport to Franks Tract (350,000 cy @ \$3.00/cy)					\$ 1,050,000		
4.01.05	Hydraulically Unload and Place (350,000 cy @ \$4.00/cy)					\$ 1,400,000		
4.01.06	Island Planting at Franks Tract					\$ 320,000		
4.02	Construction Management & Inspection Services	3,837	\$ 309,960		\$ 211,321		\$ 51,828	\$ 570,109
4.03	Engineering Support				\$ 42,264		\$ 4,226	\$ 48,490
4.04	Geotechnical Support				\$ 25,222		\$ 2,522	\$ 27,744
4.05	Water Quality Monitoring (3 yrs)				\$ 103,000		\$ 10,300	\$ 113,300
4.06	Post-Construction Biological (Fishery) Monitoring (3 yrs)				\$ 150,000		\$ 15,000	\$ 165,000
4.07	Prepare Demonstration Project Evaluation Final Report	60	\$ 4,800		\$ 20,380		\$ 2,518	\$ 27,698
4.00	SUB-TOTAL STAGE 4	3,897	\$ 311,760	\$ -	\$ 563,713	\$ 4,213,750	\$ 87,547	\$ 5,176,770

I - 0 1 4 0 7 7

EXHIBIT III

I-014077

**FRANKS TRACT/DECKER ISLAND WETLANDS HABITAT RESTORATION
PHASES II & III: DEMONSTRATION ISLAND CONSTRUCTION & MONITORING**

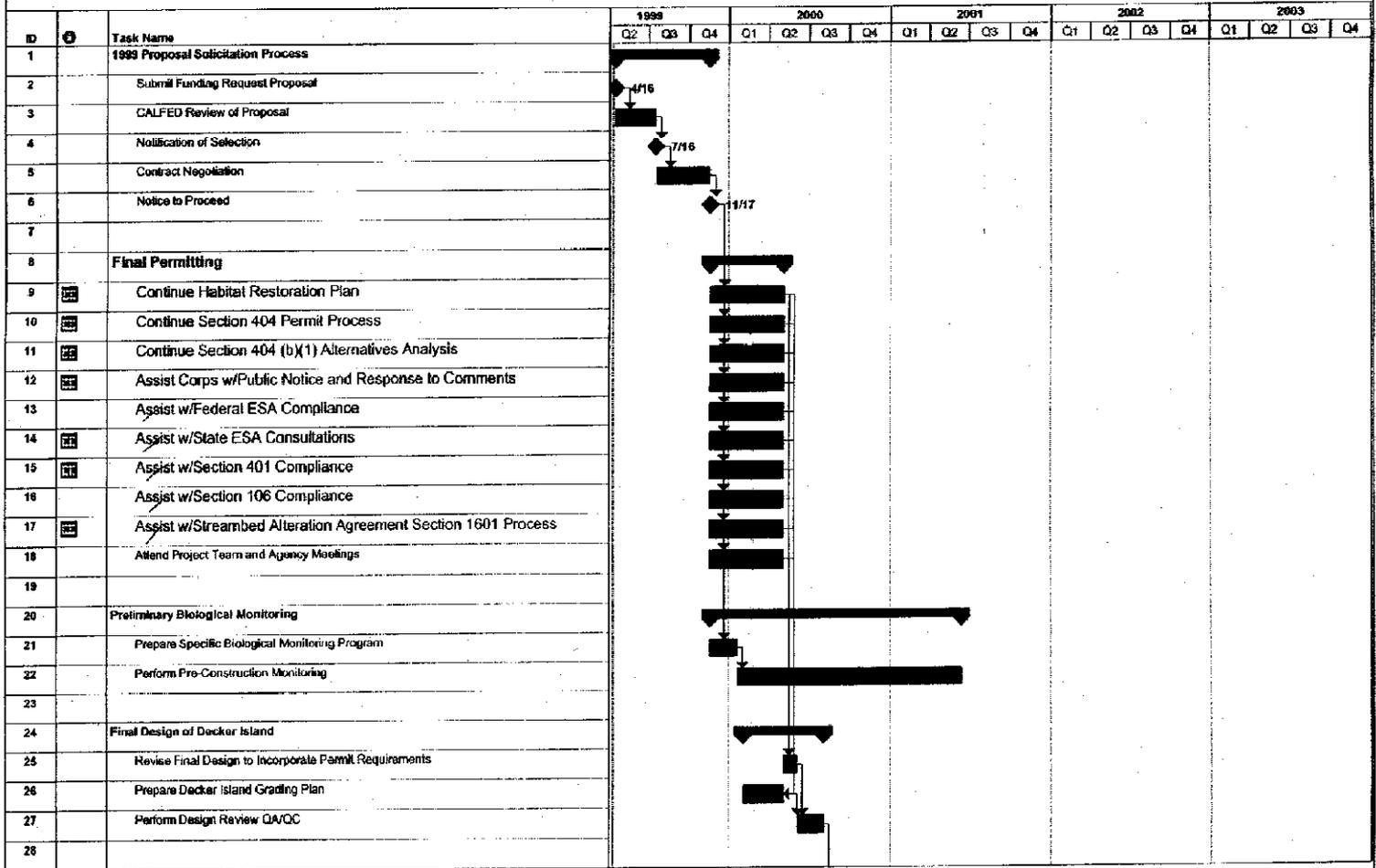
Prepared for: CALFED
Prepared by: Department of Water Resources
Submitted: April 16, 1999

Budget Summary

Task No.	Task/Subtask Description	Direct Labor Hours	Total Department of Water Resources	Overhead Labor (General, Admin and Fee)	Service Contracts	Material and Acquisition Contracts	Miscellaneous and Other Direct Costs	Task Total
5.00	STAGE 5 - ISLAND #4 CONSTRUCTION & MONITORING							
5.01	Construction of Island #4				\$ 10,975	\$ 2,847,800	\$ 1,098	\$ 2,858,873
5.01.01	Mobilization/Demobilization (20% of Const. Costs)					\$ 135,000		
5.01.02	Excavation on Decker Island (180,000 cy @ \$3.00/cy)					\$ 540,000		
5.01.03	Load on Barge (180,000 cy @ \$0.75/cy)					\$ 135,000		
5.01.04	Transport to Franks Tract (180,000 cy @ \$3.00/cy)					\$ 540,000		
5.01.05	Hydraulically Unload and Place (180,000 cy @ \$4.00/cy)					\$ 720,000		
5.01.06	Island Planting at Franks Tract					\$ 180,000		
5.01.07	Final Grading at Decker Island					\$ 217,800		
5.01.08	Planting at Decker Island					\$ 400,000		
5.02	Construction Management & Inspection Services	2,199	\$ 175,920		\$ 142,994		\$ 31,891	\$ 350,805
5.03	Engineering Support				\$ 26,599		\$ 2,860	\$ 31,459
5.04	Geotechnical Support				\$ 24,379		\$ 2,438	\$ 26,817
5.05	Water Quality Monitoring (3 yrs)				\$ 69,000		\$ 6,900	\$ 75,900
5.06	Post-Construction Biological (Fishery) Monitoring (3 yrs)				\$ 150,000		\$ 15,000	\$ 165,000
5.07	Prepare Demonstration Project Evaluation Final Report	60	\$ 4,800		\$ 20,380		\$ 2,518	\$ 27,698
5.00	SUB-TOTAL STAGE 5	2,259	\$ 180,720	\$ -	\$ 446,326	\$ 2,847,800	\$ 62,705	\$ 3,537,551
	TOTAL PROJECT COST	13,812	\$ 1,104,934	\$ -	\$ 2,276,456	\$ 12,881,050	\$ 338,140	\$ 16,606,580

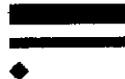
1-014078

Franks Tract/Decker Island Wetlands Habitat Restoration
Phase's II,III: Demonstration Island Construction & Monitoring

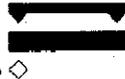


Franks Tract/Decker Island Wetlands
Phase's II,III: Demonstration Island

Task
Progress
Milestone



Summary
Rolled Up Task
Rolled Up Milestone



Rolled Up Progress
External Tasks
Project Summary



Split
Rolled Up Split

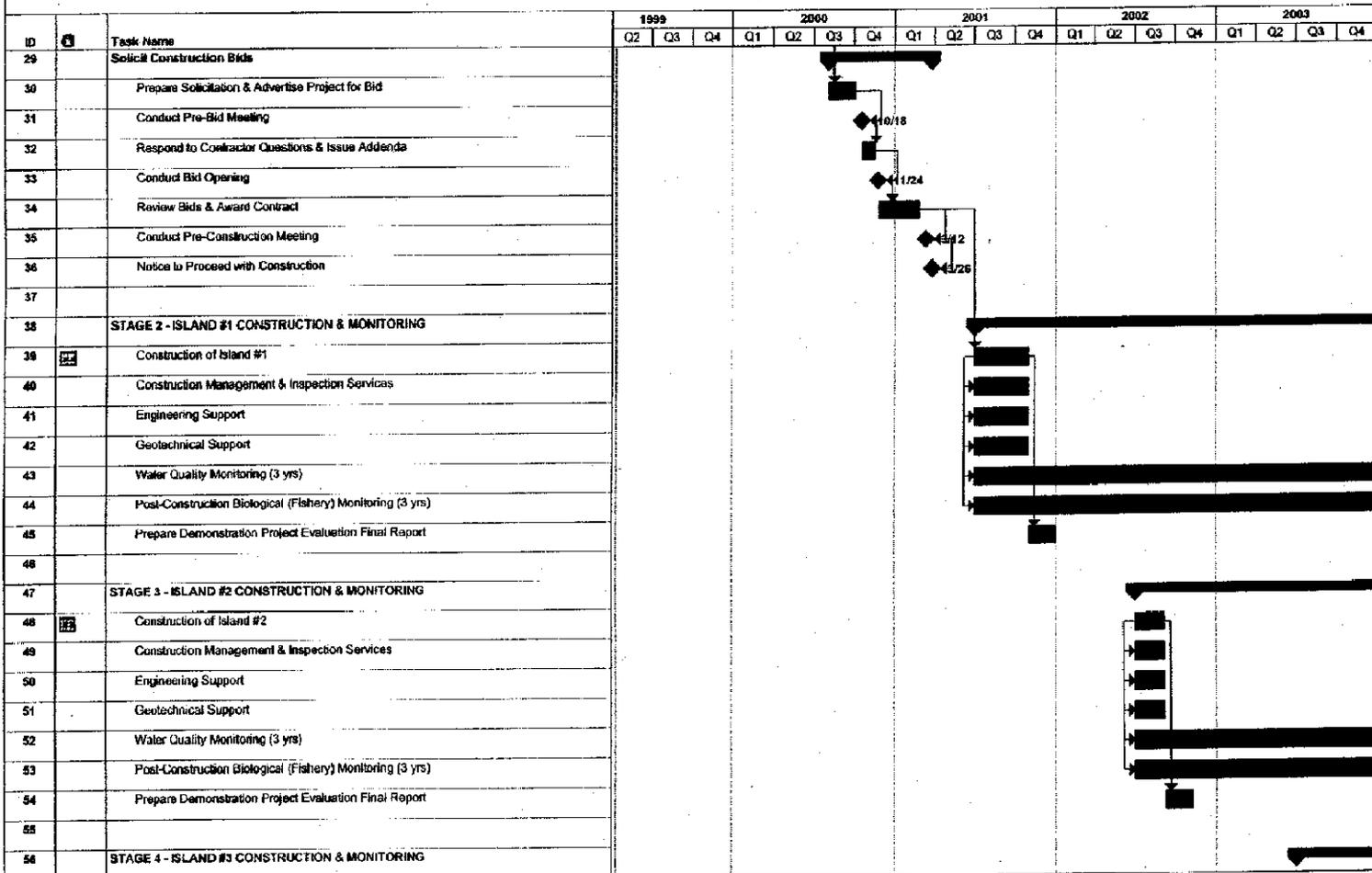
Date: Fri 4/9/99

EXHIBIT IV

1-014079

1-014079

Franks Tract/Decker Island Wetlands Habitat Restoration
Phase's II&III: Demonstration Island Construction & Monitoring



Franks Tract/Decker Island Wetlands
Phase's II&III: Demonstration Island

Task

Progress

Milestone

Summary

Rolled Up Task

Rolled Up Milestone

Rolled Up Progress

External Tasks

Project Summary

Split

Rolled Up Split

Date: Fri 4/9/99

EXHIBIT IV

1-014080

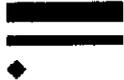
1-014080

Franks Tract/Decker Island Wetlands Habitat Restoration
Phase's II&III: Demonstration Island Construction & Monitoring

ID	Task Name	1999			2000				2001				2002				2003			
		Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
57	Construction of Island #3																			
58	Construction Management & Inspection Services																			
59	Engineering Support																			
60	Geotechnical Support																			
61	Water Quality Monitoring (3 yrs)																			
62	Post-Construction Biological (Fishery) Monitoring (3 yrs)																			
63	Prepare Demonstration Project Evaluation Final Report																			
64																				
65	STAGE 5 - ISLAND #4 CONSTRUCTION & MONITORING																			
66	Construction of Island #4																			
67	Final Grading at Decker Island																			
68	Planting at Decker Island																			
69	Construction Management & Inspection Services																			
70	Engineering Support																			
71	Geotechnical Support																			
72	Water Quality Monitoring (3 yrs)																			
73	Post-Construction Biological (Fishery) Monitoring (3 yrs)																			
74	Prepare Demonstration Project Evaluation Final Report																			

Franks Tract/Decker Island Wetlands
Phase's II&III: Demonstration Island

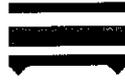
Task
Progress
Milestone



Summary
Rolled Up Task
Rolled Up Milestone



Rolled Up Progress
External Tasks
Project Summary



Split
Rolled Up Split

Date: Fri 4/9/99

EXHIBIT IV

I - 0 1 4 0 8 1

I-014081

Franks Tract/Decker Island Wetlands Habitat Restoration
Phase's II&III: Demonstration Island Construction & Monitoring

ID	Task Name	2004				2005				2006				2007				2008			
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	
29	Solicit Construction Bids																				
30	Prepare Solicitation & Advertise Project for Bid																				
31	Conduct Pre-Bid Meeting																				
32	Respond to Contractor Questions & Issue Addenda																				
33	Conduct Bid Opening																				
34	Review Bids & Award Contract																				
35	Conduct Pre-Construction Meeting																				
36	Notice to Proceed with Construction																				
37																					
38	STAGE 2 - ISLAND #1 CONSTRUCTION & MONITORING	[Redacted]																			
39	Construction of Island #1	[Redacted]																			
40	Construction Management & Inspection Services	[Redacted]																			
41	Engineering Support	[Redacted]																			
42	Geotechnical Support	[Redacted]																			
43	Water Quality Monitoring (3 yrs)	[Redacted]																			
44	Post-Construction Biological (Fishery) Monitoring (3 yrs)	[Redacted]																			
45	Prepare Demonstration Project Evaluation Final Report	[Redacted]																			
46		[Redacted]																			
47	STAGE 3 - ISLAND #2 CONSTRUCTION & MONITORING	[Redacted]																			
48	Construction of Island #2	[Redacted]																			
49	Construction Management & Inspection Services	[Redacted]																			
50	Engineering Support	[Redacted]																			
51	Geotechnical Support	[Redacted]																			
52	Water Quality Monitoring (3 yrs)	[Redacted]																			
53	Post-Construction Biological (Fishery) Monitoring (3 yrs)	[Redacted]																			
54	Prepare Demonstration Project Evaluation Final Report	[Redacted]																			
55		[Redacted]																			
56	STAGE 4 - ISLAND #3 CONSTRUCTION & MONITORING	[Redacted]																			

Franks Tract/Decker Island Wetlands
Phase's II&III: Demonstration Island

Task
Progress
Milestone



Summary
Rolled Up Task
Rolled Up Milestone



Rolled Up Progress
External Tasks
Project Summary



Split
Rolled Up Split



Date: Fri 4/8/99

EXHIBIT IV

1-014082

1-014082

Franks Tract/Decker Island Wetlands Habitat Restoration
Phase's II&III: Demonstration Island Construction & Monitoring

ID	Task Name	2004				2005				2006				2007				2008		
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
57	Construction of Island #3																			
58	Construction Management & Inspection Services																			
59	Engineering Support																			
60	Geotechnical Support																			
61	Water Quality Monitoring (3 yrs)	[Redacted]																		
62	Post-Construction Biological (Fishery) Monitoring (3 yrs)	[Redacted]																		
63	Prepare Demonstration Project Evaluation Final Report																			
64																				
65	STAGE 5 - ISLAND #4 CONSTRUCTION & MONITORING	[Redacted]																		
66	Construction of Island #4																			
67	Final Grading at Decker Island																			
68	Planting at Decker Island																			
69	Construction Management & Inspection Services																			
70	Engineering Support																			
71	Geotechnical Support																			
72	Water Quality Monitoring (3 yrs)	[Redacted]																		
73	Post-Construction Biological (Fishery) Monitoring (3 yrs)	[Redacted]																		
74	Prepare Demonstration Project Evaluation Final Report																			

1-014083

Franks Tract/Decker Island Wetlands Phase's II&III: Demonstration Island	Task	[Redacted]	Summary	[Redacted]	Rolled Up Progress	[Redacted]	Split
	Progress	[Redacted]	Rolled Up Task	[Redacted]	External Tasks	[Redacted]	Rolled Up Split
	Milestone	◆	Rolled Up Milestone	◇	Project Summary	[Redacted]		

Date: Fri 4/9/99

EXHIBIT IV

1-014083

**FRANKS TRACT/DECKER ISLAND WETLANDS HABITAT RESTORATION
PHASE'S II&III: DEMONSTRATION ISLAND CONSTRUCTION & MONITORING**

Prepared for: CALFED
Prepared by: Moffatt and Nichol Engineers
Submitted: April 18, 1999

Task Summary

Task No.	Task/Subtask Description	LEAD	DELIVERABLE
1.00	STAGE 1 - PRE-CONSTRUCTION SERVICES		
1.01	Final Permitting		
1.01.01	Continue Habitat Restoration Plan	JSA	Letter Report
1.01.02	Continue Section 404 Permit Process	JSA	Project Details
1.01.03	Continue Section 404 (b)(1) Alternatives Analysis	JSA	Alternatives Analysis
1.01.04	Assist Corps w/Public Notice and Response to Comments	JSA	Written Responses
1.01.05	Assist w/Federal ESA Compliance	JSA	Biological Assessments
1.01.06	Assist w/State ESA Consultations	JSA	Biological Assessments
1.01.07	Assist w/Section 401 Compliance	JSA	Project Details
1.01.08	Assist w/Section 106 Compliance	JSA	Letter Report
1.01.09	Assist w/Streambed Alteration Agreement Section 1601	JSA	Section 1601 Application
1.01.10	Attend Project Team and Agency Meetings	JSA	Meeting Minutes
1.01.11	Assist w/5-Year Physical and Vegetative Biological	JSA	Field Data and Final Reports
1.02	Preliminary Biological Monitoring		
1.02.01	Prepare Specific Biological Monitoring Program	JSA	Biological Monitoring Plan
1.02.02	Perform Pre-Construction Monitoring	JSA	Field Data and Final Reports
1.03	Final Design of Decker Island		
1.03.01	Revise Final Design to Incorporate Permit Requirements	DWR	Final Construction Documents
1.03.02	Prepare Decker Island Grading Plan	MNE	Final PS&E
1.03.03	Perform Design Review QA/QC	DWR	n/a
1.04	Solicit Construction Bids		
1.04.01	Prepare Solicitation & Advertise Project for Bid	DWR	Bid Documents
1.04.02	Conduct Pre-Bid Meeting	DWR	n/a
1.04.03	Respond to Contractor Questions & Issue Addenda	DWR	Written Responses and Addenda
1.04.04	Conduct Bid Opening	DWR	n/a
1.04.05	Review Bids & Award Contract	DWR	n/a
1.04.06	Conduct Pre-Construction Meeting	DWR	n/a
2.00	STAGE 2 - ISLAND #1 CONSTRUCTION & MONITORING		
2.01	Construction of Island #1	DWR	n/a
2.02	Construction Management & Inspection Services	DWR	Quarterly Progress Reports
2.03	Engineering Support	MNE	Field Data Reports
2.04	Geotechnical Support	HTE	Field Data Reports
2.05	Water Quality Monitoring (3 yrs)	JSA	Preliminary and Annual Reports
2.06	Post-Construction Biological (Fishery) Monitoring (3 yrs)	JSA	Field Data and Annual Reports
2.07	Prepare Demonstration Project Evaluation Final Report	MNE	Final Summary Report
3.00	STAGE 3 - ISLAND #2 CONSTRUCTION & MONITORING		
3.01	Construction of Island #2	DWR	n/a
3.02	Construction Management & Inspection Services	DWR	Quarterly Progress Reports
3.03	Engineering Support	MNE	Field Data Reports
3.04	Geotechnical Support	HTE	Field Data Reports
3.05	Water Quality Monitoring (3 yrs)	JSA	Preliminary and Annual Reports
3.06	Post-Construction Biological (Fishery) Monitoring (3 yrs)	JSA	Field Data and Annual Reports
3.07	Prepare Demonstration Project Evaluation Final Report	MNE	Final Summary Report

EXHIBIT V

**FRANKS TRACT/DECKER ISLAND WETLANDS HABITAT RESTORATION
PHASE'S II&III: DEMONSTRATION ISLAND CONSTRUCTION & MONITORING**

Prepared for: CALFED
Prepared by: Moffatt and Nichol Engineers
Submitted: April 16, 1999

Task Summary

Task No.	Task/Subtask Description	LEAD	DELIVERABLE
4.00	STAGE 4 - ISLAND #3 CONSTRUCTION & MONITORING		
4.01	Construction of Island #3	DWR	n/a
4.02	Construction Management & Inspection Services	DWR	Quarterly Progress Reports
4.03	Engineering Support	MNE	Field Data Reports
4.04	Geotechnical Support	HTE	Field Data Reports
4.05	Water Quality Monitoring (3 yrs)	JSA	Preliminary and Annual Reports
4.06	Post-Construction Biological (Fishery) Monitoring (3 yrs)	JSA	Field Data and Annual Reports
4.07	Prepare Demonstration Project Evaluation Final Report	MNE	Final Summary Report

EXHIBIT V

**FRANKS TRACT/DECKER ISLAND WETLANDS HABITAT RESTORATION
PHASE'S II & III: DEMONSTRATION ISLAND CONSTRUCTION & MONITORING**

MEMORANDUM OF UNDERSTANDING

THIS MEMORANDUM OF UNDERSTANDING is entered into this 16th day of April, 1999, by and between **DEPARTMENT OF PARKS AND RECREATION, STATE OF CALIFORNIA**, hereinafter referred to as "DPR", **DEPARTMENT OF FISH AND GAME, STATE OF CALIFORNIA**, hereinafter referred to as "DFG", **DEPARTMENT OF WATER RESOURCES, STATE OF CALIFORNIA**, hereinafter referred to as "DWR", and **MOFFATT & NICHOL ENGINEERS**, hereinafter referred to as "MNE." DPR, DFG, DWR and MNE collectively may be referred to as "Parties". This Memorandum is entered into with respect to the following facts:

- A. Franks Tract State Recreation Area ("SRA"), located in Contra Costa County, consists of two flooded Delta tracts totaling approximately 3300 acres owned by the State of California and operated by the DPR.
- B. Decker Island, located in Solano County, consists mostly of nonnative grassland and weedy herbaceous plants, such as yellow starthistle and pepperweed, and annual exotic grasses such as wild oats and soft chess. The island is surrounded by the Sacramento River to the northwest and Horseshoe Bend (a former meander of the Sacramento River) to the east, south, and west. The 15-acre project site is contained within 33.2 acres owned by the California Department of Fish and Game, located at the northern tip of the island.
- C. The Parties (excluding DFG) submitted a joint proposal to the CALFED Bay Delta Program ("CALFED") on July 28, 1997 for funding of a phased project to construct demonstration islands in Franks Tract SRA for the primary purpose of habitat restoration. The first phase of this effort consisting of completion of the CEQA environmental review and permit process, and preparation of construction documents has been funded through a \$231,500 grant from CALFED, authorized in the November 1997 funding cycle.
- D. The creation of demonstration islands at Franks Tract requires approximately 800,000 cubic yards of material. Decker Island is currently 20' above sea level due to dredge spoils deposited on the island when the Sacramento River was dredged between 1917 and 1937. This overburden material is available for borrow. Upon removal of the material on Decker Island, the excavated areas will be graded to create a diversity of aquatic, wetland, riparian, and upland habitats that have been greatly diminished in the delta and that are sought by CALFED's ERRP. These habitats include meandering channels, open water, riverine aquatic bed, emergent tidal marsh, shaded riverine aquatic, riparian, and grassland/shrub habitats. The priority species which will benefit from this project include San Joaquin River fall-run chinook salmon, winter-run

EXHIBIT VI

Franks Tract/Decker Island Wetlands Habitat Restoration
Phase's II&III: Demonstration Island Construction & Monitoring
Memorandum of Understanding
Page 2 of 4

salmon, spring-run salmon, Delta smelt, splittail, striped bass, steelhead trout, and migratory birds.

E. In 1996 the Legislature enacted SB 900 and voters of California approved Proposition 204, the Clean, Safe, Reliable Water Supply Act of 1996 (the Act). The Act appropriates a total of \$25 million to DWR for the Delta Levee Rehabilitation Program. The Act requires that expenditures from this appropriation be consistent with a net long-term habitat improvement program, and have a net benefit for aquatic species in the Delta. DWR's participation in this project is based upon the general agreement that net long-term aquatic habitat improvements will be attributed to the Levee Rehabilitation Program consistent with DWR's financial contribution.

IT IS AGREED AS FOLLOWS:

1. DPR, DFG and MNE intend to support DWR's in constructing the Demonstration Islands for which funding is being requested from CALFED.
2. DWR shall enter into a contract with CALFED for implementation of the funded work, identified in the Proposal submitted to CALFED by DWR on April 16, 1999.
3. DWR will use good faith efforts to complete the CEQA environmental review and permit process for the Franks Tract portion of the project utilizing the services of Jones & Stokes Associates, Inc., an environmental consulting firm.
4. DWR will use good faith efforts to complete the CEQA environmental review and permit process for the Decker Island portion of the project.
5. DWR and MNE will prepare construction documents to enable solicitation of competitive bids for the construction phase under State procurement regulations in subsequent phases of work.
6. DPR and DFG will use good faith efforts to assist the completion of the CEQA environmental review and permit process for both the Franks Tract and Decker Island portions of the project by serving as lead agency for environmental certification, and applicant for all permits
7. This Memorandum may not be modified without written approval of the Parties.

EXHIBIT VI

Franks Tract/Decker Island Wetlands Habitat Restoration
Phase's II&III: Demonstration Island Construction & Monitoring
Memorandum of Understanding
Page 3 of 4

8. This Memorandum shall not be considered a contract or to be binding and may be terminated at any time by any of the Parties through written notification.

9. This Instrument contains the entire agreement between the Parties hereto with respect to the transactions contemplated herein.

10. An Advisory Committee will be established to provide guidance and oversight of the project team. The Advisory Committee shall consist of those individuals identified in Article 11 of this Agreement.

11. All notices, requests, or other communications hereunder shall be in writing and shall be deemed to be duly given if personally delivered, sent by facsimile, or mailed to the Parties as follows:

Ronald Brean
Gold Rush District
Department of Parks and Recreation
101 J Street
Sacramento, CA 95814
Tel: (916) 445-7373
Fax: (916) 327-8872

Ronald Brean

Date

Ed Littrell
Delta Flood Protection Program Project Manager
Department of Fish & Game, Region II
1701 Nimbus Road, Suite A
Rancho Cordova, CA 95670
Tel: (916) 358-2924
Fax: (916) 358-2912

Ed Littrell

Date

Karl Winkler
Chief Central District
Department of Water Resources
3251 S. Street
Sacramento, CA 95816
Tel: (916) 227-7567
Fax: (916) 227-7600

Karl Winkler

Date

Richard B. Dornhelm, P.E.
Moffatt & Nichol Engineers

EXHIBIT VI

Franks Tract/Decker Island Wetlands Habitat Restoration
Phase's II&III: Demonstration Island Construction & Monitoring
Memorandum of Understanding
Page 4 of 4

3000 Citrus Circle, Suite 230
Walnut Creek, CA 94598
Tel: (925) 944-5411
Fax: (925) 944-4732

Richard Dornhelm

Date

12. This Memorandum may be signed in counterparts; each of which will be considered an original and which together will constitute one and the same agreement.

EXHIBIT VI

DEPARTMENT OF WATER RESOURCES

CENTRAL DISTRICT
3251 S STREET
SACRAMENTO, CA 95816-7017



Ms. Margit Aramburu
Executive Director
Delta Protection Commission
14215 River Road
Walnut Grove, California 95690

Dear Ms. Aramburu :

The Department of Water Resources' Flood Protection and Geographic Information Branch has joined with the Department of Fish and Game, the Department of Parks and Recreation, and Moffat & Nichol Engineers to submit a CALFED proposal for funding of the Franks Tract/Decker Island Wetlands Habitat Restoration Project. The purpose of this letter is to provide you with early notification of our intent to construct a habitat restoration project within your jurisdiction.

The proposed project includes removing the overburden material from the northern tip of Decker Island for construction of habitat islands in Franks Tract. The proposed project will restore:

- 45 acres of deeply flooded habitat at Franks Tract to 34 acres of shallow tidal perennial and inter-tidal habitat, and 11 acres of fresh emergent wetlands habitat; and
- 20 acres of existing weedy non-native habitat on Decker Island to create a diversity of aquatic, wetland, riparian, and upland habitats that have been greatly diminished in the Delta.

Franks Tract, owned by DPR, has been flooded since 1938. Flooding of the island has increased levee vulnerability and maintenance to the neighboring islands due to the large open water expanse increasing wave action against the levees. The 35 acres on the northern tip of Decker Island, owned by DFG, is currently 20 feet above sea level due to dredge spoils deposited on the Island when the Sacramento River was dredged between 1917 and 1937.

DWR will keep you informed of the status of this proposal, and should it be funded by CALFED, the progress of the project. If you have any questions regarding our proposal, please contact me at (916) 227-7567.

Sincerely,

A handwritten signature in black ink, appearing to read "Curt Schmutte".

Curt Schmutte, Chief
Flood Protection and Geographic
Information Branch

DEPARTMENT OF WATER RESOURCES

CENTRAL DISTRICT
3251 S STREET
SACRAMENTO, CA 95816-7017



Mr. David Okita
County of Solano
508 Elmira Road
Vacaville, California 95687

Dear Mr. Okita:

The Department of Water Resources' Flood Protection and Geographic Information Branch has joined with the Department of Fish and Game, the Department of Parks and Recreation, and Moffat & Nichol Engineers to submit a CALFED proposal for funding of the Franks Tract/Decker Island Wetlands Habitat Restoration Project. The purpose of this letter is to provide you with early notification of our intent to construct a habitat restoration project within your jurisdiction.

The proposed project includes removing the overburden material from the northern tip of Decker Island for construction of habitat islands in Franks Tract. The proposed project will restore:

- 45 acres of deeply flooded habitat at Franks Tract to 34 acres of shallow tidal perennial and inter-tidal habitat, and 11 acres of fresh emergent wetlands habitat; and
- 20 acres of existing weedy non-native habitat on Decker Island to create a diversity of aquatic, wetland, riparian, and upland habitats that have been greatly diminished in the Delta.

Franks Tract, owned by DPR, has been flooded since 1938. Flooding of the island has increased levee vulnerability and maintenance to the neighboring islands due to the large open water expanse increasing wave action against the levees. The 35 acres on the northern tip of Decker Island, owned by DFG, is currently 20 feet above sea level due to dredge spoils deposited on the Island when the Sacramento River was dredged between 1917 and 1937.

DWR will keep you informed of the status of this proposal, and should it be funded by CALFED, the progress of the project. If you have any questions regarding our proposal, please contact me at (916) 227-7567.

Sincerely,

A handwritten signature in black ink, appearing to read "Curt Schmutte".

Curt Schmutte, Chief
Flood Protection and Geographic
Information Branch

DEPARTMENT OF WATER RESOURCES

CENTRAL DISTRICT
3251 S STREET
SACRAMENTO, CA 95816-7017



Mr. Milton Kubicek
County of Contra Costa
255 Glacier Drive
Martinez, California 94553

Dear Mr. Kubicek :

The Department of Water Resources' Flood Protection and Geographic Information Branch has joined with the Department of Fish and Game, the Department of Parks and Recreation, and Moffat & Nichol Engineers to submit a CALFED proposal for funding of the Franks Tract/Decker Island Wetlands Habitat Restoration Project. The purpose of this letter is to provide you with early notification of our intent to construct a habitat restoration project within your jurisdiction.

The proposed project includes removing the overburden material from the northern tip of Decker Island for construction of habitat islands in Franks Tract. The proposed project will restore:

- 45 acres of deeply flooded habitat at Franks Tract to 34 acres of shallow tidal perennial and inter-tidal habitat, and 11 acres of fresh emergent wetlands habitat; and
- 20 acres of existing weedy non-native habitat on Decker Island to create a diversity of aquatic, wetland, riparian, and upland habitats that have been greatly diminished in the Delta.

Franks Tract, owned by DPR, has been flooded since 1938. Flooding of the island has increased levee vulnerability and maintenance to the neighboring islands due to the large open water expanse increasing wave action against the levees. The 35 acres on the northern tip of Decker Island, owned by DFG, is currently 20 feet above sea level due to dredge spoils deposited on the Island when the Sacramento River was dredged between 1917 and 1937.

DWR will keep you informed of the status of this proposal, and should it be funded by CALFED, the progress of the project. If you have any questions regarding our proposal, please contact me at (916) 227-7567.

Sincerely,

A handwritten signature in black ink, appearing to read "Curt Schmutte".

Curt Schmutte, Chief
Flood Protection and Geographic
Information Branch

APR. 05 1999

Mr. Richard Block
Mega Sand, Inc.
Post Office Box 397
Antioch, California 94509

Dear Mr. Block:

Thank you for providing the Department of Water Resources with a copy of Mega Sand's Reclamation Plan for its proposed borrow activity on Decker Island. I am very interested in the future restoration plans proposed at the borrow site.

DWR is proposing a similar restoration project on the northern tip of Decker Island on land owned by the Department of Fish and Game. DWR is proposing to borrow additional material (approximately 800,000 cubic yards) from the northern tip of Decker Island for a demonstration project for construction of habitat on islands at Franks Tract. This increase in borrow activity will provide an opportunity to increase the size of the restoration project to include all of the land owned by DFG on Decker Island.

Enclosed is a copy of the Initial Study for the Decker Island Habitat Development project. We will provide you with Phase I bid documents and additional information regarding the proposed Phase II restoration project on Decker Island as final documents are produced.

If you have any questions or would like additional information, please contact me at (916) 227-7567.

Sincerely,

*original signed by
Dave Lawson*

for Curt Schmutte, Chief
Flood Protection and
Geographic Information Branch

Enclosure

MLewis:Nancy Serrato
Megasandfml.doc
Spell check April 5, 1999

**FRANKS TRACT/DECKER ISLAND WETLANDS HABITAT RESTORATION
PHASE'S II&III: DEMONSTRATION ISLAND CONSTRUCTION AND MONITORING**

Table 2. Monitoring and Data Collection Information for Biological and Ecological Objectives

Hypothesis to be Evaluated	Monitoring Parameters	Data Evaluation Approach	Comments and Data Priority
Spawning habitat will be increased for native fish species	Larval fish occurrence using light traps	BACIP ¹	Methods will be consistent with IEP protocol for similar studies; a final monitoring plan will be submitted to CALFED and IEP for peer review; raw monitoring results will be reported after each field sampling period and an annual report will evaluate and summarize the results
Rearing habitat will be increased for native fish species	Adult and juvenile fish occurrence using appropriate methods	BACIP ¹	
Predation and competition by non-native species will not be enhanced	Adult and juvenile fish occurrence using appropriate methods	BACIP ¹	
Food availability will be increased	Benthic invertebrate occurrence	BACIP ¹	

¹BACIP is a procedure that includes sampling before and after project implementation in control (i.e., reference) and impact sites. A total of 30 sites are proposed to be sampled.

EXHIBIT VIII