

SAN FRANCISCO ESTUARY PROJECT

DRAFT

FFY 2006-2007 Work Plan and Budget

Submit To:
U.S. Environmental Protection Agency

From:
Association of Bay Area Governments
San Francisco Bay Regional Water Quality Control Board
June 2006

**SAN FRANCISCO ESTUARY PROJECT
DRAFT FFY 2006-2007 Work Plan and Budget
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San Francisco Estuary Project
DRAFT FFY 2006 - 2007 Work Plan and Budget for the
San Francisco Bay Regional Water Quality Control Board
Association of Bay Area Governments

1. PURPOSE:

This amended cooperative agreement between the U.S. Environmental Protection Agency (EPA), the Association of Bay Area Governments (ABAG) and the San Francisco Bay Regional Water Quality Control Board (Water Board) is to provide technical, administrative and public involvement program support for continued implementation of the Comprehensive Conservation and Management Plan (CCMP). This includes support activities for the San Francisco Estuary Project (SFEP), Friends of the San Francisco Estuary (Friends) and the San Francisco Estuary Institute (SFEI).

2. PERIOD OF PERFORMANCE: December 1, 2006, until December 31, 2007.

3. BACKGROUND:

The Estuary – The San Francisco Bay-Delta Estuary is the largest estuary on the West Coast and is a vital environmental asset for millions of Californians. The Estuary system encompasses roughly 1,600 square miles, drains over 40 percent of the state (60,000 square miles), provides drinking water to 23 million Californians (two-thirds of the state's population) and irrigates 4.5 million acres of farmland. The Estuary also enables the nation's fourth-largest metropolitan region to pursue diverse activities, including shipping, fishing, recreation and commerce. Finally, the Estuary hosts a rich diversity of flora and fauna. For example, two-thirds of the state's salmon and nearly half of the birds migrating along the Pacific Flyway pass through the Bay and Delta.

Human alteration of aquatic and terrestrial habitats, the discharge of pollutants, water diversions, urban and agricultural runoff, dredging and waterway modification, intensified land use and the introduction of alien flora and fauna have all contributed to the Bay-Delta Estuary's declining ability to support a sustainable ecosystem. Populations of many native species have dropped to record low levels, and over 150 species are designated as endangered, threatened or of special concern, under the state/federal Endangered Species Acts. Of particular concern in the past year is the precipitous decline of pelagic organisms in the Delta. With an estimated five to forty thousand tons of pollutants entering the Estuary each year, human health is also at risk.

National Estuary Program (NEP) – Congress established the NEP, Section 320 in the reauthorized Clean Water Act (CWA) of 1987 to address the declining state of the nation's estuaries. California's Governor nominated the San Francisco Bay-Delta as an "estuary of national significance" and the EPA officially added the SFEP to the program in December 1987. The Governor's nomination of the SFEP began the local-state-federal partnership, which developed the Comprehensive Conservation and Management Plan (CCMP) for the Estuary. In FFY 2005, Congress reauthorized the NEP and in 2006 maintained the NEP's appropriation of approximately the same as 2005 or \$24,500,000. This appropriation provides approximately \$492,600 each in base funding to the 28 NEPS.

4. GOALS:

SFEP's goals are to restore water quality and natural resources through effective management and public/private partnerships, while maintaining the region's economic vitality. The SFEP's purpose is to oversee and track the implementation of a coordinated and comprehensive strategy for preserving, restoring and enhancing the Bay-Delta Estuary. The actions contained in the CCMP make up a strategy aimed at rejuvenating the ecological health of the Estuary while maintaining the economic diversity of the region. The CCMP's nine program areas and 145 actions recognize the Estuary's environmental value and the need to manage habitats within the sub-watersheds from an ecosystem perspective.

Updating the CCMP - The Estuary Project monitors CCMP implementation and environmental results by holding a State of the Estuary (SOE) Conference every two years and producing several documents that evaluate CCMP implementation progress and the health of the Estuary. SFEP held a public workshop on August 5, 2005, when participants evaluated CCMP priorities, implementation progress, and the effectiveness of the institutional structure. Approximately 60 participants attended the workshop and recommended that the CCMP Program Areas be reviewed and updated. At its November 2005 meeting, the Implementation Committee approved the recommendation and authorized staff and a work group to develop a schedule and guidelines to begin the CCMP Updating process. The tentative schedule is to complete the process by May 2007 in time to prepare for the August 2007 CCMP Workshop. The outcome from CCMP workshops and SOE conferences assist staff in setting priorities, developing the annual work plans and seeking and allocating funds to implement the CCMP. The CCMP update is detailed in **Subtask 11.7 - CCMP Update** of this Work Plan.

5. 2005-2006 ACCOMPLISHMENTS:

Because the August 2005 CCMP Workshop attendees recommended updating the CCMP, they did not re-evaluate the priorities. The list of accomplishments below, are categorized by CCMP priorities established at the August 2003 CCMP Workshop. There are two top priorities – preservation and restoration of wetlands and the prevention, control, and eradication of invasive species. The other six priorities are not in any order. Some of these activities may fall under several CCMP priorities, but for simplification, they are listed once.

Expand, restore, and protect Bay-Delta wetlands.

- Completed work on biotechnical stabilization and habitat creation on three Delta In-Channel Island pilot projects, with very successful results (CALFED funds).
- Worked with the San Francisco Estuary Institute and partners on completion of the third phase in developing the California Rapid Assessment Method (CRAM) for monitoring wetlands in the Bay Area, CRAM will be applied and coordinated statewide (EPA funds).
- Continued to work with the North Bay Geographic Subcommittee to track and support tidal wetland restoration of a 120-acre site in Marin County and provided support as needed for South Bay projects.
- Using \$108,000 from the additional funds provided by Congress, carried out a small-grants program through solicitation of proposals for creek/wetland restoration and education projects that implemented the CCMP. Sixteen projects were selected representing neighborhood groups and non-governmental organizations from around the estuary. (See Appendix B)
- Participated in San Francisco Bay Joint Venture, a cooperative partnership working to protect, restore, increase and enhance all types of wetlands, riparian habitat and uplands throughout the watershed. The Joint Venture carries out the habitat goals for the estuary.
- Began a two-year project to develop a regional policy for stream and wetland protection that will be used as a statewide model (EPA funds).
- Provided limited support to applicants for the Joint Aquatic Resource Permit Application. Also provided support for the Wetlands Regional Monitoring Work Group in review of a monitoring plan for the Napa Salt Plant site.
- Working with NOAA, BCDC and the State Coastal Conservancy assisted with developing a management strategy for San Francisco Bay subtidal habitats that includes restoration goals.

Reduce the impact of invasive species on the Estuary through prevention, control, eradication and education.

- Assisted with providing education and outreach to the public about the need to prevent the introduction and spread of invasive species to the Estuary, including the West Coast Ballast Outreach Project.

- SFEP is a member of the Aquatic Nuisance Species National Task Force and the Western Regional Panel (WRP), and participated on several ANS Task Force committees, including the Ballast Water Management Standards and Caulerpa Management Committees. Staff completed outreach projects to watershed groups (WRP and US FWS funds).
- Working with the Spartina Project, completed a signage project to educate the public about spartina eradication (Coastal Conservancy funds).
- Working with partners began the completion and implementation of a State Aquatic Invasive Species Plan (Coastal Conservancy funds).

Protect and restore watersheds throughout the Estuary.

- Provided technical assistance and BMP recommendations for wetland and creek flood protection projects to Santa Clara Valley Water District, Alameda County, Caltrans and watershed groups working with Friends of the San Francisco Estuary.
- Provided outreach assistance to local government and environmental justice groups for development of an integrated regional watershed management plan for the Bay Area (Coastal Conservancy funds).
- Provided assistance with public outreach on developing the Watershed/Habitat function for an integrated regional watershed management plan (Coastal Conservancy funds).

Create incentives that encourage local government, landowners and communities to protect and restore the Estuary.

- Continued working with Friends of the Estuary and the Bay Area Water Forum to encourage local governments to develop policies that protect wetlands, riparian corridors, water quality and upland areas.

Minimize or eliminate pollution of the Estuary from all sources.

- Worked with the Brake Pad Partnership to identify and prevent impacts on surface water quality that may be caused by the use of automotive brake pads (State bond funds).
- Provided technical and communication assistance to the Water Board (TMDL Process) and administrative, outreach and oversight of Supplemental Environmental Projects in lieu of Administrative Civil Liability fines (State and private funds).
- Continued development of testing procedures for diazinon and chlorpyrifos replacement pesticides (State bond funds).
- Provided education, outreach and technical assistance for implementation of the TMDL for Diazinon and Pesticide-Related Toxicity in San Francisco Bay Area Urban Creeks (State bond funds).
- Began technical and administrative support for developing recommendations for wetland design and management options to reduce methyl mercury, monitoring protocols and tools for calculating load reductions based on monitoring data (State bond funds).
- Provided technical support to the Regional Water Board in setting water quality objectives and the TMDL process (Clean Estuary Partnership funds).

Increase public awareness of the Estuary's natural resources and the impacts of human activity on them.

- Continued educating the development/construction communities, consultants, and municipal staff about the need to prevent erosion and control sediment from construction sites by conducting workshops (eight workshops with 600 attendees) and updating and distributing guides, manuals, videos, and CDs on these issues (private/public funds).

- *Assisted the CALFED Program with organizing its 4th biennial Science Conference on October 23-26, 2006, in Sacramento and published the 2006 State of the Estuary Report based on the information presented at the 2005 SOE conference.*
- Assisted the Interagency Ecological Program with organizing its annual conference in Asilomar, CA, March 2006 with approximately 200 attendees.
- Provided assistance with educating recreational boaters about preventing pollution by using pump-out stations – produced/distributed 50,000 maps with locations of pump-out stations in San Francisco Bay and Delta. Acted as fiscal agent for similar activities by sister NEP in Santa Monica Bay (CA Department of Boating and Waterways funds).
- Continued to inform and educate the public and decision-makers about the need to restore and protect the Bay-Delta Estuary distributing information sheets and producing the bimonthly newsletter, *ESTUARY*. Updated SFEP web site with improved design and access.
- Continued organizational and administrative support for CCMP Implementation by providing assistance to the CCMP Implementation Committee, Friends of the San Francisco Estuary, San Francisco Estuary Institute, and the Association of National Estuary Programs.

Expand the Regional Monitoring Program to address all key CCMP issues, including pollution, wetlands, watersheds, dredging, biological resources, land use and flows. Integrate the results of scientific monitoring into management and regulatory actions.

- Completed administrative/technical support to the CALFED Science Program - the contract ended August 2006, the work assisted with CCMP implementation (CALFED funds -USGS).
- Working with the San Francisco Estuary Institute, the Bay Institute and other partners, continued collaboration, commitment and development of a suite of San Francisco Bay ecosystem indicators approved by the Implementation Committee in November 2005.
- Provided administrative and technical support to San Francisco Estuary Institute in updating/maintaining/expanding (pilot watershed) the Bay Area Wetlands Project Tracker, a web-based information system for past and ongoing wetland restoration/creation/enhancement activities (EPA Wetlands grant).
- Provided technical support for maintaining and enhancing information to be made accessible to the public by the Water Board's Electronic Reporting System for Bay Area dischargers (supplemental environmental projects – fines).

Promulgate baseline inflow standards for San Francisco, San Pablo, and Suisun Bays to protect and restore the Estuary ecosystem.

- Worked with Friends of the Estuary and participated in the Bay Area Water Forum to increase awareness and coordination of the need for restoring and maintaining a healthy San Francisco Bay and protecting the interests of the Bay Area.

6. CCMP IMPLEMENTATION STRUCTURE:

Current Status of the San Francisco Estuary Project - The importance and complexity of the Bay-Delta Estuary presents a significant challenge to its managers. This challenge is made more daunting by the need to strike a reasonable compromise between the compelling need for environmental protection, on the one hand, and competing uses of Estuary waters and resources, on the other. Given California's many societal needs, the Estuary Project and its partners have struggled to maintain support for continued implementation of the CCMP. With the limited funds available, the CCMP continues to be effectively carried out through State bond-funded projects and the cooperation and coordination of all the agencies and entities working to restore the Estuary.

This collaboration continues the consensus process with which SFEP developed the CCMP. Agencies and non-governmental organizations are currently carrying out many CCMP actions under existing authorities. SFEP participants and staff are involved in many restoration efforts and actively

seek funds for implementation through grant writing and collaborative partnerships. The CCMP implementation structure is intended to coordinate these activities, promote partnerships among diverse Estuary stakeholders and support community-based environmental stewardship.

Executive Council – The CCMP called for the Executive Council to provide broad policy direction and primary responsibility for putting the CCMP into effect. Five members comprise the Council: EPA Regional Administrator, Region 9; US Fish and Wildlife Service California Nevada Operations Manager; Secretary, California EPA; Secretary, California Resources Agency; one local government representative (ABAG and Sacramento Area Council of Governments alternate this position). The Executive Council meets as needed, approves the annual work plan and budget and provides guidance to SFEP through the Councils' members on the Implementation Committee.

The Implementation Committee (IC) – The IC coordinates implementation activities, sets priorities and recommends work plans and budgets to the Executive Council for approval. The IC is comprised of 35 representatives from local/state/federal agencies, business/ industry and environmental organizations. Three geographic subcommittees established by the IC use watershed-based approaches to address issues in the North Bay, South Bay and Delta.

Friends of the San Francisco Estuary – Established by the Estuary Project in 1991, Friends of the San Francisco Estuary is a non-profit organization, with an independent board of directors, which seeks to increase public involvement in the decision-making processes of managing the Estuary. Friends builds broad-based public awareness and understanding of the CCMP and its actions and projects. To achieve this goal, Friends provides educational outreach to the adult public, and supports the Estuary Education Program begun by the Estuary Project.

The Education Program provides teacher workshops, a variety of outreach and action programs for teachers and students interested in improving a local habitat, and field sessions that provide in-depth and firsthand knowledge of the Estuary environment. Friends receives funds from public and private entities for environmental restoration projects in lieu of fines that were issued by the Water Board. By leveraging these funds, Friends has increased its work with local communities, teachers and students to build public understanding of the value of the Estuary's natural resources and, specifically, the need to restore and enhance wetlands. Friends supports teachers, students and interested citizens throughout the Estuary that are studying local natural habitats in-depth, adopting these habitats and carrying out restoration projects.

Additionally, through contracts and agreements with agencies and entities around the Estuary, Friends provides fiscal agent services for projects and activities that implement the CCMP. These include the continuing support for the Electronic Reporting System for Bay Area dischargers and stormwater pollution prevention outreach to local governments in the North Bay.

San Francisco Estuary Institute (SFEI) – The CCMP calls for SFEI to carry out the research and monitoring program. SFEI is a non-profit organization with an independent and diverse board of directors. Its mission is "to foster development of the scientific understanding needed to protect and enhance the San Francisco Estuary through research, monitoring, and communication." The Institute conducts monitoring and research that generates information upon which decision makers can draw. SFEI's largest program is the Regional Monitoring Program (RMP) for Trace Substances, which is funded by Bay Area dischargers (about \$3 million annually). RMP results are presented at an annual conference and in SFEI's Annual Report. SFEI also conducts several other contaminant related projects.

The Institute also has important research projects in wetlands, watersheds, historical ecology, and biological invasions, several of which are funded by CALFED. SFEI developed a web-based system for regional access to wetland data and GIS maps and launched a new web site to track wetland projects around San Francisco Bay. The Wetlands Tracker reports the size, location, status, purpose, sponsors, and contact people for past, present, and proposed wetland restoration, enhancement, and mitigation projects. The web address is <http://www.wetlandtracker.org>. SFEI's information is disseminated to agencies, universities, schools, media and the public through its website and written reports.

SFEI and SFEP collaborated on several projects this past year, including the development of a wetlands monitoring program for the Estuary; building consensus on a suite of ecosystem indicators; invasive species issues; and developing a funding strategy for CCMP implementation.

The CCMP and the CALFED Program – Established in 1995, the CALFED partnership of state and federal agencies and the involvement of many interest groups continue to make progress in its goal to stabilize, protect, restore and enhance the Bay-Delta Estuary. Many of the same agencies and interest groups that were involved in the development of the CCMP participate in CALFED's committees and continue to work on lasting solutions to the Estuary's many serious and complex problems.

In 2002, State lawmakers passed legislation establishing the California Bay-Delta Authority (CBDA), a state agency to oversee the Bay-Delta Program, housed under the Resources Agency. CALFED funded billions of dollars in projects to address very complex issues of critical importance in understanding and restoring the Estuary and its watershed. In June 2005, the Governor called for a review of CBDA, its decision-making structure, program and financial performance. With the pelagic organisms collapse in the Delta, the Governor's review called for a new implementation structure and a need for refocusing efforts on the Delta. SFEP has worked with its partners to urge CALFED to provide more resources for Bay Area restoration and research projects; however with the refocus on the Delta, CALFED is calling on regional efforts to set their own priorities.

SFEP and CALFED have collaborated on and accomplished mutually beneficial activities and goals. SFEP provided administrative and technical support to the CALFED Science and Drinking Water Quality Programs for many projects, workshops, science boards and experts through a three-year, \$23 million contract that ended May 30, 2005. These projects assisted with CCMP implementation. With CALFED refocusing its efforts, the collaboration between SFEP and CALFED is limited to science conference and some communication/technical support. Contract negotiations to continue carrying out mutual goals in a new agreement have been unsuccessful. SFEP will continue to seek ways to collaborate with CALFED.

7. STAFF ACTIVITIES/PRODUCTS:

To carry out its mandate, the Estuary Project requires a variety of managerial and administrative support activities as well as staff and a program manager. Staff will carry out the professional, technical, and administrative tasks necessary to support the Estuary Project, Water Board, and Friends of the San Francisco Estuary in CCMP implementation.

Staff will continue to coordinate state/federal/local efforts to implement the CCMP through the Executive Council, Implementation Committee, subcommittees and workgroups, while improving outreach to agencies and other cooperative and collaborative efforts to improve the Estuary's health. The Implementation Committee and the Executive Council will be assisted by staff in developing work plans to execute priority actions. Staffs regularly work with partners to seek and obtain additional funds for CCMP implementation.

Tasks: initiate coordinated, collaborative and cooperative activities and where possible, work with CALFED to implement the CCMP; educate the public on the need to prevent and control invasive species in the Estuary, including support for the National Aquatic Nuisance Species Task Force, its Western Regional Panel, and subcommittees; provide assistance to complete and implement a state Aquatic Invasive Species Management Plan; provide assistance and support for wetland and watershed protection and restoration efforts throughout the Estuary including working with the San Francisco Estuary Institute on the Wetlands Regional Monitoring Program for the Bay Area and the Wetlands Tracker, and developing a regional stream and wetland protection policy as a state-wide model; support dredging and waterway modification issues consistent with CCMP objectives including a sediment management plan and Subtidal Habitat Goals for San Francisco Bay; continue a public involvement program, including more multicultural outreach; publish the *2007 Environmental Report Card*, distribute the *2006 State of the Estuary Report*, organize the October 2007 State of the Estuary Conference; work with the Water Board to provide public involvement and research support for the Total Maximum Daily Load (TMDL) process; provide support for developing tools to measure possible

water quality impacts from replacement pesticides for discontinued organophosphate pesticides and provide outreach and education in implementing the Urban Pesticide TMDL; continue an expanded boater education program in the San Francisco Estuary and Santa Monica Bay; work with Water Board/Friends to continue erosion control education and outreach; working with partners, develop design and management options that minimize mercury in wetland restoration for San Francisco Bay; work with the North Bay Geographic Subcommittee on a wetland restoration project; assist with the South Bay restoration of salt ponds as requested; provide technical support to the Santa Clara Valley Water District, Alameda County and Caltrans for pollution prevention, stormwater management and creek restoration permitting activities; work with the Brake Pad Partnership to identify and prevent impacts on Estuary water quality that potentially arise from the use of automotive brake pads; carry out a small grants program; continue assistance with the development and monitoring of a suite of ecosystem indicators; carry out the long-term financial and implementation strategy for CCMP implementation; provide support for Implementation Committee targeted projects; provide support for National Estuary Program activities; provide required annual reports to EPA, including the Government Performance and Results Act (acres of habitat acquired, restored and enhanced in the Estuary), leveraging of NEP funds, Travel, and CCMP Actions Implemented for the year; provide financial expertise, contract administration, clerical and logistical support; maintain web site; manage the review and updating of the CCMP; organize meetings and distribute informational materials; and provide monthly financial reporting and budget assistance. Staff will prioritize tasks and seek innovative, economical, cooperative projects, as well as additional funding sources to implement the CCMP.

Products: demonstration projects to restore and enhance natural resources; scientific and regulatory initiatives; institutional innovation such as education and outreach on the need for erosion control and pollution prevention; increased awareness of elected officials about the need for Estuary restoration and protection; a State Aquatic Nuisance Species Management Plan and early implementation activities; public education/outreach on the need to prevent and control introduction of invasive species; technical support for the San Francisco Bay Subtidal Goals Project; the encouragement of broad-based public involvement in the TMDL process and CCMP implementation; CCMP Workshop to set priority actions; Eighth biennial State of the Estuary three-day conference; *2007 CCMP Environmental Report Card*; an effective boater education program in the San Francisco Estuary and Santa Monica Bay; final reports for the Brake Pad Partnership and tools to measure water quality impacts from replacement pesticides for discontinued organophosphate pesticides; an outreach/education program that implements the Urban Pesticide TMDL; progress in developing and monitoring ecosystem indicators; pilot projects to reduce impacts of mercury in wetland restoration; a small grant program; six issues of *ESTUARY* newsletter; distribution of information sheets/brochures; response to public inquiries; cosponsorship activities; CCMP Update progress; organized and well-managed meetings (appropriate meeting packets, briefing materials, and summaries); technical oversight; effective contract management; oral and written staff recommendations; decision memoranda; required annual EPA reports; and monthly and quarterly reports.

FFY 2006-07 ABAG/Water Board Work Plan

Task I. CCMP Implementation - SFEP Administration/Management

"The cornerstones of effective implementation are: early implementation efforts; an organizational structure that will promote a continued partnership and that will sustain commitments to implementation; a strategy for implementation; a means to monitor the effectiveness of the Plan's actions; and a way to ensure broad public support for and involvement in realizing the Plan's goals." CCMP

Subtask 1.1 – Postage and Mailing Costs - The San Francisco Estuary Project needs to provide the public with information and materials pertaining to itself, its committees, CCMP implementation, and Friend's activities. Mailing costs and postage for the *ESTUARY* newsletter are included in the budget (\$10,800) - **Ongoing Subtask**.

Subtask 1.2 – Travel, Education and Conferences - To facilitate CCMP goals, SFEP staff should attend and participate in appropriate educational conferences and trainings. The Estuary Project, Water Board and Friends should also participate in and be represented at public meetings and conferences. In compliance with 2005 NEP funding guidance, funds are included in this agreement for NEP outreach support to cover travel for SFEP officials and participants to: report on SFEP activities at national and international conferences; attend NEP meetings; and provide peer-to-peer assistance to other NEPs (\$10,000) - **Ongoing Subtask**.

Subtask 1.3 – Printing - The public needs to know about and receive materials pertaining to the activities of SFEP and its committees, CCMP, and Friends. Materials necessary to the maintenance of SFEP and Friends will be printed. These materials include, but are not limited to 3400 copies of *ESTUARY* newsletter six times per year; meeting materials; revised information sheets; flyers; announcements; documents; reports; labels; and directories. (\$14,000) - **Ongoing Subtask**

Subtask 1.4 – Program Management - SFEP staff develop and implement the work plan and budget, including EPA annual reports (GPRA, CCMP implementation, etc.) Staff will organize and coordinate implementation of CCMP actions, support the Estuary Project's committees, Friends, and the Water Board. Staff will also manage contractors, work with other groups and agencies, and seek new funding sources through grant and proposal writing. SFEP will administer competitive solicitation process, materials, public meetings, the technical review of proposals received under the small-grant program, and the awards for education and restoration projects (subcontracts). Budget includes partial funding for salary, benefits, and other fixed costs for four staff and a program manager. (\$242,100) - **Ongoing Subtask**

Products: development and implementation of annual work plan and budget; monthly accounting reports; quarterly and annual reports; EPA required annual reports (GPRA, travel, etc.); administrative/staff support of SFEP and Friends meetings; Water Board support; meeting materials and summaries; contract management; personnel supervision; decision memoranda; grant writing; necessary competitive bid processes (RFPs and RFQs); mailings; printed materials; attendance/participation at required NEP/EPA meetings; and other managerial support.

Task I. Subtotal: \$276,900

Task II. - CALFED Science Program Support

Priority:

Continue, sustain, and expand the Regional Monitoring Program to address all key CCMP issues, including pollution, wetlands, including mitigation measures, watersheds, dredging and sediment transport, biological resources, land use and flows; and integrate scientific monitoring results into management and regulatory actions.

Priority:

Promulgate baseline inflow standards for San Francisco, San Pablo, and Suisun Bays to protect and restore the Estuary

CCMP Action AR- 1.1 - Refine and coordinate existing monitoring programs to:

(i) better evaluate ecosystem responses to immediate, phased, and long-term water quality and flow standards; (ii) more fully characterize ecosystem processes and properties; and (iii) enhance predictive capabilities of ecosystem models.

Subtask 2.1 – Provide Organizational Support for CALFED Science Conference - SFEP will assist with organizing the 3-day October 2006 Science Conference, including logistical, registration, program, poster sessions, publications, brochures, accounting support and additional support as directed. Funds included in CALFED/SFEP/ABAG agreement (\$25,000) - **Ongoing Subtask**

Subtask 2.2 – Provide Communication/Technical Support for CALFED Program – SFEP will provide web design, communication and technical support for CALFED program. Funds included in CALFED/SFEP/ABAG agreement (\$135,000) - **Ongoing Subtask**

Subtask 2.3 – Co-sponsorship of 2007 State of the Estuary Conference – CALFED will provide support for organizing the 2007 SOE Conference to be held October 2007. Tasks include support for staff to organize conference and online registration. Funds included in CALFED/SFEP/ABAG agreement. (\$55,000) - **Ongoing Subtask**

Products include: Three-day 2006 CBDA Science Conference; copies of conference materials; communication/technical support; and co-sponsorship of 2007 SOE Conference, accounting and managerial support.

Task II. Subtotal: \$215,000

Task III. CCMP Implementation - Measuring Success

Priority:

Increase public interaction with the Estuary's natural resources, encourage stewardship, promote the values ecological processes provide to human activities, and promote awareness of the effects of human activities on them.

Clean Water Act: Section 320 (b) (6): monitor the effectiveness of actions pursuant to the plan.

CCMP Action PI-2.6 - Hold a State of the Estuary Conference at least every other year.

Evaluating and Tracking CCMP Implementation

The Estuary Project evaluates and tracks the progress of CCMP implementation every two years by: 1) producing a *Bay-Delta Environmental Report Card* that reviews the progress made in Bay-Delta environmental management; 2) organizing a three-day State of the Estuary Conference; 3) organizing a workshop to get public feedback on the *Report Card*, CCMP implementation structure and to re-evaluate CCMP priorities; and 4) producing a *State of the Estuary Report* that summarizes the information presented by scientists at the State of the Estuary Conferences. The *Report Cards* provide detailed information in an easy-to-read format and review progress in implementing CCMP action priorities that were set in previous years.

Subtask 3.1 – Monitoring CCMP Implementation - *The Bay-Delta Environmental Report Card and CCMP Workshop* – The CCMP is undergoing a review and updating process begun in 2005. SFEP will hold a public workshop in August 2007, where participants will re-evaluate CCMP priorities, implementation progress, and institutional structure. A draft and final *2007 Environmental Report Card* will be produced and distributed to the public and Congressional Delegation in Fall 2007. The *Report Card* reviews the progress made in Bay-Delta environmental management through a systematic listing and evaluation of CCMP implementation efforts since the previous *Report Card*. The outcome from the CCMP workshop and conference assists staff in setting priorities, developing the annual work plan and seeking and allocating funds to implement the CCMP. SFEP will focus its CCMP implementation efforts on those priorities set at the August 2007 CCMP Workshop. Costs are included in fundraising efforts for the 2007 State of the Estuary Conference. - **Ongoing Subtask**

Subtask 3.2 – 2007 State of the Estuary Conference and Report - The SOE conference provides the opportunity for scientists, managers, interest groups and the public to link SFEP and CCMP implementation to other ecosystem management programs/activities, address challenges, provide education and solicit feedback on CCMP implementation. It also provides a forum to hear about new research and monitoring data, political and scientific impacts on environmental policy, and priority ecosystem management issues. The conference will be held in October 2007. Tasks include: organizing conference committee; determining location and program; logistics including program brochures, call for poster abstracts, registration, caterers, website and accounting procedures;

fundraising; and begin writing 2008 SOE Report. Registration fees and co-sponsorships will cover this task (\$180,000) - **Ongoing Subtask**

Subtask 3.3 – Ecosystem Indicators for the San Francisco Estuary - Working with SFEI and the SF Bay Indicators Consortium, a suite of ecosystem indicators has been approved by the Implementation Committee for the San Francisco Estuary. Work continues on refining the indicators and collaborative partnerships are being sought with agencies to track the indicators. SFEP tracks one indicator, habitat - the acquisition, restoration and enhancement of wetlands and riparian habitat. The information is recorded in the annual Government Performance and Results Act report required by EPA. SFEP will provide funds to its partner SFEI for managing this task. Funds are needed for building consensus on the need for scientifically valid, leading environmental indicators; developing a framework for interagency cooperation and collaboration on indicator development and refinement; and seeking commitments for ongoing financial and programmatic support for indicators and performance measures. Additional funds are needed to identify a subset of indicators considered useful in the assessment of the environmental condition related to the CCMP, and other indicators (birds) considered important. Funds included in EPA/SFEP/ABAG agreement (\$30,000) - **Ongoing Subtask**

Subtask 3.4 – Updating the CCMP – CCMP priorities are reviewed by participants at the biennial CCMP Workshops. However a complete review of all CCMP objectives and priority actions has not occurred since the CCMP was approved in 1993. As recommended by SFEP participants (August 2005 CCMP Workshop) and approved by the Implementation Committee at its November 2005 meeting, a process to review and update the CCMP has begun and will be completed by May 2007. Supported by SFEP staff/consultants, the IC members and SFEP participants are reviewing the nine CCMP Program Areas and developing needed objectives and actions to update the CCMP. To effectively carry out the process, additional funds are needed for staff/consultant resources, including facilitation, possible graphic design, and printing costs. Funds are included in the EPA/SFEP/ABAG agreement (\$18,000) - **Ongoing Subtask**

Products include: distribution of *2006 State of the Estuary Report*; the 2007 State of the Estuary three-day Conference; the *2007 Bay-Delta Environmental Report Card*; and an updated addendum to the CCMP.

Task III. Subtotal: \$228,000

Task IV. CCMP Implementation - Public Involvement and Education

Priority:

Increase public interaction with the Estuary's natural resources, encourage stewardship, promote the values ecological processes provide to human activities, and promote awareness of the effects of human activities on them.

CCMP Action PI-1.1 - Build awareness, interest, and support in the general public and decision-makers for the CCMP's goals and action plans.

Subtask 4.1 – Public Information - Staff will respond to inquiries from the public concerning the SFEP, the Estuary and its issues, the CCMP and Friends. Using existing materials as time and budget permit, staff will continue scheduling and making presentations to diverse interest groups, the general public and decision-makers. Staff and Friends volunteers will present slide shows, videotapes and displays at conferences, public meetings, festivals and schools. Working with the Water Board and Friends, SFEP will provide outreach to elected officials and print additional materials as needed. Funds included in the EPA/SFEP/ABAG agreement (\$2,000). - **Ongoing Subtask**

CCMP Action PI-1.2 - Provide and encourage opportunities for direct citizen involvement in implementing the CCMP.

Subtask 4.2 – Citizen Involvement in CCMP Decision-Making - CCMP implementation is dependent upon broad-based citizen involvement. Staff and consultants working with Friends, the Water Board and the media will continue development and distribution of information pertaining to CCMP progress, and will encourage citizen discussion of CCMP implementation and Estuary restoration issues. Staff and consultants will facilitate feedback mechanisms to bring discussion outcomes to the attention of government decision-makers and the CCMP lead agencies (newsletter and public meetings). Emphasis will be placed on outreach to targeted audiences, including local government, multicultural groups (see Subtask 4.6 and 4.7 below), and improved communication between Friends' constituencies and CCMP lead agencies. Staff will continue efforts to expand communication with CALFED and other state/federal research and management programs (\$10,000) - **Ongoing Subtask**

CCMP Action PI-1.5 - Ensure provisions for a central collection and distribution (a clearinghouse) point for communication and coordination of all information concerning CCMP issues and the Estuary.

Subtask 4.3 – ESTUARY Newsletter - The bimonthly newsletter provides an independent Bay-Delta news source covering ecosystem-wide water issues, estuarine restoration efforts, and CCMP implementation. Its broad-based editorial board attempts to go beyond the boundaries of a single agency/organization-centered newsletter by aiming to create a balanced, multi-interest, interagency and interdisciplinary perspective. Aggressive marketing through subscriptions and small grants from other agencies has raised funds to cover some costs of *ESTUARY*. The budget includes production of six issues (3400 copies each), writing, editing, and design of an eight-page, two-color newsletter with maps, photos and graphics. The newsletter web address is [www. estuarynewsletter.com](http://www.estuarynewsletter.com). Postage and printing are included in administrative costs in Task I (\$37,800) - **Ongoing Subtask**

Subtask 4.4 – San Francisco Estuary Project on the Internet - SFEP continues to update its homepage with improved design and access. Many of SFEP's reports, information sheets, and documents are available. SFEP's web address is: <http://sfep.abag.ca.gov/> Funds are included in the program management budget for web site maintenance. - **Ongoing Subtask**

Subtask 4.5 – CCMP Publicity and Media Outreach - The purpose of publicity and media outreach is the broadening of public awareness, creating greater public prominence for CCMP implementation efforts, SFEP, Friends, San Francisco Estuary Institute, and their programs and products, and encouraging public support of CCMP activities. Staff and or consultant will maintain contact with print, radio and TV media. Costs are included in the program management budget. - **Ongoing Subtask**

CCMP Action PI-2.1 - Develop, promote, and support multicultural understanding of and involvement in Estuary issues and the decision-making process for these issues

Subtask 4.6 – Fish Education Work Group - The work group meets on an as needed basis and provides outreach and education to increase anglers' awareness about the appropriate consumption levels of contaminated fish caught in San Francisco Bay. Staff assists as needed. Members include: Office of Environmental Health Hazard Assessment, CA Dept. of Health Services, San Francisco and Alameda County Health Depts., and Save the Bay Assoc. Costs are included in the program management budget. - **Ongoing Subtask**

Subtask 4.7 – Richmond High School Creek Keepers - This project provides environmental employment and training opportunities for five to six inner-city youth each year to restore Contra Costa County's Wildcat Creek Watershed. The primary goal of the project is providing leadership opportunities for youth to implement real-world hands-on restoration and/or public education and involvement projects. This is a joint effort with the Water Board and Friends of the Estuary. The program has successfully raised funds through grants and donations to maintain it. Costs are included in Friends budget (\$20,000) - **Ongoing Subtask**

CCMP Action PI-2.5 - Assist in the development of long-term educational programs designed to prevent pollution to the Estuary's ecosystem and provide assistance to other programs as needed.

Subtask 4.8 – Boater Education Program - SFEP and its partners the CA Department of Boating and Waterways, the Santa Monica Bay Restoration Commission, San Francisco Bay Water Board and other government agencies, and interest groups, have developed a public education program to build environmental awareness for recreational boaters and to encourage their use of pump-out stations in order to prevent pollution. The 2006-2007 program continues to focus on targeted outreach to Bay-Delta marinas and boaters on the need for pump-out stations and how to use them. Costs for SFEP and SMBRC staff, consultants, outreach materials, printing, graphics, contract oversight and accounting procedures are included in the ABAG/DBW contract (\$100,000) - **Ongoing Subtask.**

Subtask 4.9 – Construction Site Planning and Management for Water Quality Protection - SFEP works with the Water Board, Friends of the Estuary, developers/contractors, building industry, local governments and the interested public to organize workshops throughout the Bay region about using Best Management Practices to prevent erosion and sediment problems resulting from post construction projects. SFEP will organize 8-10 workshops, provide a certification program for those attending the workshops, revise and print educational materials, inspector field manuals and guidebooks as needed. The two award winning videos have been translated into Spanish, will be updated and marketed and distributed. A CD with many of the workshop materials and slideshows has been developed and is being marketed. Costs included in Friends and SFEP budgets (\$65,000). - **Ongoing Subtask**

CCMP Action PI-2.2 - Work with education groups, interpretive centers, decision-makers, and the general public to build awareness, appreciation, knowledge, and understanding of the Estuary's natural resources and the need to protect them.

CCMP Action PI-3.1 - Increase public opportunities to contribute directly to protection and management of fish and wildlife populations and their habitats within the Estuary.

CCMP Action PI-3.3 - Provide opportunities for hands-on citizen action in Estuary restoration activities.

Subtask 4.10 – Estuary Education Program - The Friends of the Estuary Education Program carries out the CCMP Public Involvement and Education Program. Its focus is on student/ teacher education and working with neighborhood groups, students, local government and agencies to increase public awareness of the Estuary's environmental and economic value and to foster stewardship of the Estuary. SFEP staff support the program through administrative assistance, grant writing, contract oversight, accounting procedures, graphic design, and outreach. Additionally, staff work with over 21 other organizations that provide similar educational programs, including: Save the Bay, the Watershed Project, Adopt-a-Watershed, Urban Creeks, and the Martinez Land Trust. Estimated costs included in staff budget and Friends budget (\$25,000). - **Ongoing Subtask**

CCMP Action LU-4.1 - Educate the public about how human actions impact the Estuary.

Subtask 4.11 – Information Exchange and Cosponsorships - Working with agencies and public interest groups, SFEP will provide opportunities for the public to learn about the Estuary, ways to solve estuarine problems, learn from each other through information exchange, workshops, and other activities. Staff will seek funds to organize and to cosponsor educational workshops, fairs, and meetings. Some costs included in staff budget and Friends budget (\$1,500). - **Ongoing Subtask**

Subtask 4.12 – Supplemental Environmental Projects (SEPs) - Local environmental education and restoration projects can be funded through Administrative Civil Liabilities that are imposed by the Water Board against dischargers for violations. Projects must conform to guidelines set by the State and Regional Water Boards. Staff provides required evaluation, administration, outreach, tracking and oversight required by the SEPs. Costs included in ABAG/Water Board contract (\$30,000). - **Ongoing Subtask**

Products include: presentations to diverse interest groups, decision-makers, agencies; response to 10-20 inquiries per week; public meetings, conferences, festivals; outreach to targeted audiences,

including local government and the media; constituency development; development of appropriate educational materials; providing a high school student intern program; the production and distribution of six issues of *ESTUARY*; SFEP presence on the internet; continued broad-based citizen involvement in CCMP implementation; distribution of information about the CCMP to the public; multicultural outreach; pollution prevention education including, targeted boater education, boaters' maps and erosion control workshops; support for citizen monitoring activities; an effective and expanded Estuary Education Program; hands-on citizen activities to restore the Estuary's natural resources; fundraising; and seeking cosponsorship opportunities; and administrative and outreach support for SEPs.

Task IV. Subtotal: \$291,300

Task V. CCMP Implementation - Aquatic Resources Management

Priority:

Reduce the impact of invasive species on the Estuary through prevention, control, eradication and education.

CCMP Action AR-2.1 - Develop, implement, and enforce stringent regulations to control discharges of ship ballast water within the Estuary or adjacent waters.

CCMP Action AR-2.2 - Prohibit the intentional introduction of aquatic exotic species into the Estuary and its watershed.

Subtask 5.1 – Invasive Species and Ship Ballast Water Exchange Outreach/ Education - As a CCMP priority, SFEP assists with implementing the Invasive Species Act of 1996 and its reauthorization. SFEP participants and staff serve on the Aquatic Nuisance Species National Task Force, the Western Regional Panel's (WRP) Coastal Subcommittee, the ANS Task Force's Public Education and Outreach, Mitten Crab Control, Caulerpa Management, and the Ballast Water Exchange Standards Committees. SFEP assists the Water Board, US FWS, Sea Grant, SFEI and others as requested with providing education and outreach to the public, maritime industry and ports associations about ballast water issues relating to exotics. Early detection is critical for cost effective and successful eradication/control of invasive species. Funds provided by Sea Grant (\$12,000); additional staff costs are included in program management budget - ***Ongoing Subtask***

Subtask 5.2 – Invasive Spartina Project - SFEP assists the Spartina Project as needed and with a public information signage program. The signage program is part of the Spartina Project's public outreach efforts to educate marsh and bayland user groups about non-native invasive *Spartina* control operations. The signage addresses issues and concerns that may arise from control measures or to sensitize users to the need for control efforts. Funds provided by the Spartina Project through its partner the Coastal Conservancy (\$5,000).- ***Ongoing Subtask***

Priority:

Expand, restore and protect Bay-Delta wetlands and contiguous habitats.

CCMP Action AR-4.9 - Promote the maintenance and development of tulle islands, tidal wetlands, and offshore berms to protect against erosion and to provide detrital input and juvenile fish nursery habitat.

CCMP Action WT-1.2 - Encourage geographically focused cooperative efforts to protect wetlands.

Subtask 5.3 – State Aquatic Invasive Species Management Plan - The CA Dept. of Fish completed a draft plan several years ago. SFEP has been asked to finalize the plan, distribute it for public/agency comment, gain approval by the Governor and federal Aquatic Nuisance Species Task Force and begin to implement selected actions identified in the plan. The plan, public comment, and approval processes were completed in 2006, implementation is ongoing. Funds provided by the State Ocean Protection Council through a Coastal Conservancy contract (\$15,000).- ***New Subtask***

Subtask 5.4 – Delta In-Channel Island Workgroup (DCI) - In-channel islands are intertidal or slightly higher lands left behind when levees were initially constructed from material dredged from Delta channels. They provide habitat for endangered plants, wildlife and fish. SFEP has provided staff support for the DCI since its inception. The DCI developed a management strategy for the preservation/restoration of in-channel islands and selected demonstration sites to test the effectiveness of biotechniques that create and enhance habitat. Building on the information gained from these past projects, the DCI continues to seek funds for completing an inventory of in-channel islands and projects on other priority in-channel islands. Costs are included in the program management budget. - **Ongoing Subtask**

Priority:

Promulgate baseline inflow standards for San Francisco, San Pablo, and Suisun Bays to protect and restore the Estuary.

Objective WU- 2 - Develop water conservation methods and facilities to increase the availability of fresh water for instream uses and water supply.

CCMP Action WU-2.3 - Water conservation feasibility studies shall be completed and implemented by municipalities and/or water districts.

CCMP Objective WU-3 - Improve the legal and regulatory mechanisms to facilitate the voluntary transfer of water in order to increase the availability of fresh water for instream uses and water supply.

CCMP Action AR-4.1 - Adopt water quality and flow standards and operational requirements designed to halt and reverse the decline of indigenous and desirable non-indigenous estuarine biota.

CCMP Action AR-5.1 - Identify alternative long-term water quality and flow standards, water management measures, operational changes, habitat improvements, and facilities as needed to manage the estuarine aquatic resources (including water) for optimum benefit.

Subtask 5.5 – Bay Area Water Forum (BAWF) - In 2004, the CALFED Task Force comprised of locally elected officials and representatives of water districts and other stakeholders from the Bay Area reorganized as the BAWF. Its purpose is to increase coordination and collaboration among locally elected officials, water agencies and interest groups on the need for restoring and maintaining a healthy San Francisco Bay and protecting the interests of the Bay Area. It provides a unified Bay Area voice to CALFED, other state and federal agencies and helps coordinate Bay Area needs, including CCMP priorities. In an effort to provide better coordination and reduce duplication of effort, the SFEP Implementation Committee serves as the BAWF's Ecosystem Restoration Subcommittee. SFEP assists as requested and as resources allow. - **Ongoing Subtask**

Products include: education and outreach to prevent introduction and spread of non-indigenous species, including those related to ship ballast water; assistance with educational signage on *spartina* eradication projects; Delta in-channel islands Work Group support; implementation of projects in the CA ANS Plan; and efforts to increase coordination/ collaboration among local governments, water agencies and other stakeholders on Bay Area issues/projects.

Task V. Subtotal: \$32,000

Task VI. CCMP Implementation - Wetlands Management

Priority:

Expand, restore and protect Bay-Delta wetlands and contiguous habitats.

CCMP Action WT-1.1 - Prepare Regional Wetlands Management Plan(s).

Subtask 6.1 – Regional Wetlands Management Plan - A regional approach is needed to improve agency coordination of regulatory programs, identify projects, develop a wetlands monitoring plan and protocols, develop mitigation banking guidelines, build public and decision-makers' awareness of wetlands values, etc. Insufficient funds are available to staff this task. Agencies provide in-kind support and seek grants to carry out the work. See Subtask 8.5 SFEP will provide funds for monitoring/design review - **Ongoing Subtask**

Subtask 6.2 – Baylands Ecosystem Habitat Goals and Species and Community Profiles - The Goals Project identified and recommended types, amounts, and distributions of wetlands and related habitats needed to sustain diverse and healthy communities of fish and wildlife in the Bay Area. The Goals serve as a basis for a regional wetlands protection policy to aid Bay Area local

governments with the development of action plans. SFEP assists with public outreach and distribution of the Goals and Profiles. Costs included in Friends budget (\$2,000. - **Ongoing Subtask**

CCMP Action WT-1.2 - Encourage geographically focused cooperative efforts to protect wetlands.

CCMP Action LU-2.2 - Adopt policies and plans to promote compact, contiguous development, in both the nine-county Bay Area and the three-county Delta region.

CCMP Action WT-3.2 - Expand existing private, state, and federal financial and technical assistance programs to individual landowners.

Subtask 6.3 – North Bay Restoration and Enhancement Activities - Many agencies, organizations, local government and landowners are involved with coordination of wetlands restoration and management and agricultural preservation efforts in the North Bay. SFEP's North Bay Geographic Subcommittee is working with many of these agencies and organizations to identify and restore wetlands in the North Bay. Staff support costs are included in the program management budget. Staff will seek additional funds for specific projects. - **Ongoing Subtask**

Subtask 6.4 – South Bay Restoration and Enhancement Activities - Many agencies, organizations and local governments are involved with coordinating wetlands restoration and management efforts in the South Bay, and particularly the restoration of the South Bay salt ponds. SFEP works with many of these agencies and organizations and will provide assistance as requested and resources are available. Staff support costs are included in the program management budget. - **Ongoing Subtask**

CCMP Action WT-3.1 - Expand wetlands acquisition programs, or establish a new Estuary-specific wetlands acquisition program.

CCMP Action WT-4.1 - Identify and convert/restore non-wetland or riparian-Oriented wildlife habitat. Purchase non-wetland areas to create wetlands.

Subtask 6.5 – San Francisco Bay Joint Venture - A cooperative partnership of public agencies and private organizations, the Joint Venture (JV) works to protect, restore, increase and enhance all types of wetlands, riparian habitat and uplands throughout the watershed. The emphasis is on protecting and enhancing waterfowl, fish and wildlife populations. Other focuses include improving working relationships, promoting coordination to maximize wetlands benefits, implementation of CCMP's Wetlands Program, and leveraging of funds in the acquisition of wetlands. The Water Board and SFEP staffs serve on JV committees, the Board of Directors, and assist with carrying out projects and public outreach. Costs included in program management budget. - **Ongoing Subtask**

Subtask 6.6 – Joint Aquatic Resource Permit Application (JARPA) Permit Center - EPA funded SFEP/ABAG to work with Bay Area regulatory agencies to develop a single permit application form and instructions that consolidate federal, state and local permits for applicants proposing construction, fill placement, public access impingement, and development activities in or near aquatic environments and wetlands. Funding for this project has ended, however, SFEP staff maintain a

website and continue to provide assistance to applicants. Costs included in program management budget - **Ongoing Subtask**

For related wetland activities, see CCMP Task VII. Pollution Prevention, Subtask 7.10 Wetland Design and Management Options for Control of Mercury in San Francisco Bay and CCMP Task VIII. Research and Monitoring Subtask 8.3 -SF Estuary Wetlands Regional Monitoring Program.

Subtask 6.7 – Wetland Projects Tracker – Watershed Expansion Pilot Project - The Tracker is a web-based information system capable of providing both a regional and statewide perspective on past and ongoing wetland restoration/creation/enhancement activity and progress, assessment and administrative information on individual projects. SFEP's CCMP implementation partner, San Francisco Estuary Institute will expand the Tracker as a pilot project into one Bay region watershed for monitoring uplands as well as Bay wetlands. This effort assists the public with promoting effective stewardship of wetland resources in California. Funds included in EPA/ABAG/SFEP contract (\$8,500). - **Ongoing Subtask**

Subtask 6.8 – Stream and Wetlands Protection Policy - SFEP, San Francisco Bay and North Coast Water Quality Boards seek to protect and restore vulnerable wetland systems in the two regions and throughout the State as a way to improve water quality and support beneficial uses. EPA funded project coordinators in each region to oversee the development and adoption of a comprehensive Stream and Wetlands Protection Policy by the Water Boards that will protect the streams, connected and isolated wetlands, riparian areas, estuaries and floodplains. Additional tasks include community outreach that results in participation and acceptance in the protection of these vulnerable wetlands and consistency among the Water Boards, Tribes and local government. Funds included in EPA/ABAG/SFEP contract (\$150,000). **Ongoing Subtask**

Products include: participation in and staff support for wetlands planning, restoration, enhancement, and goals projects; support of wetlands acquisition; and technical, administrative and public outreach support for wetlands planning and restoration projects; joint aquatic resource permit application assistance; an expanded Wetlands Tracker; and development of a stream/wetlands protection policy.

Task VI. Subtotal: \$160,500

Task VII. CCMP Implementation - Pollution Prevention and Reduction

Priority:

Minimize or eliminate pollution of the Estuary from all sources.

CCMP Action PO-2.4 - Improve the management and control of urban runoff from public and private sources.

CCMP Action PO-2.5 - Develop control measures to reduce pollutant loadings from energy and transportation systems.

Subtask 7.1 – Copper Brake Pad Partnership - Sustainable Conservation, City of Palo Alto, EPA, brake pad manufacturers, other stakeholders, and the interested public, work to reduce toxic metal discharges to the South Bay from automobile brake pads. The partnership explores non-regulatory control measures on the reformation of brake pads, develops educational tools and outreach, and seeks additionally needed technical data/research and funding. Funds are provided by public/private partnerships and special grants. Working with the partnership, SFEP provides research, communication and technical assistance for the three-year project. Funds are included in the SFEP/ABAG/State Water Board contract and match (\$20,000).– **Ongoing Subtask**

Subtask 7.2 – BASMAA Education and Research Activities - SFEP works cooperatively as requested with BASMAA on mutual goals to educate the public on the need to reduce pollution to the Estuary from urban runoff. Support included in program management. - **Ongoing Subtask**

CCMP Action PO-2.1 - Pursue a mass emissions strategy to reduce pollutant discharges into the Estuary from point and nonpoint sources and to address the accumulation of pollutants in estuarine organisms and sediments.

CCMP Action PO-2.3 - Identify and control sources and sinks of selenium and mercury where they are accumulating in aquatic populations in the Estuary.

CCMP Action PO-2.2 - Adopt water quality objectives that effectively protect estuarine species and human health.

Subtask 7.3 – Total Maximum Daily Loads for Pollutants of Concern - The Water Board and EPA determined the need for establishing TMDLs for pollutants of concern. Working with stakeholders and the Clean Estuary Partnership, the Water Board is investigating sources and source control strategies through the TMDL process and will recommend source reduction actions and an implementation strategy for pollutants identified under the Regional Monitoring Program, the Fish Contamination Study, and other regional studies. Mercury, copper, dioxens, PCBs, some pesticides and invasive species have been identified. SFEP will continue to assist the Water Board with administrative, technical, public outreach and involvement support for the TMDL process. Costs included in ABAG/Water Board/State Water Board contracts (\$200,000).- **Ongoing Subtask**

See CCMP Task IV. Public Involvement and Education for related pollution prevention activities, including: Subtask 4.8 - Boater Education Program; Subtask 4.9 - Construction Site Planning; and Subtasks 7.8 below.

Subtask 7.4 – Technical Support for Water Quality Certification and Waste Discharge Requirement Applications (WDRs) - SFEP will provide technical support for reviewing and commenting on 401 permits and WDRs for the Water Board. Support includes site visits, preparing 401 recommendations and WDRs for sediment removal projects; reviewing monitoring reports and recommending BMPs for wetland, creek flood protection and transportation projects. Funds for this task are included in the ABAG/Santa Clara Valley Water Dist./Alameda County/CalTrans contracts (\$300,000).- **Ongoing Subtask**

CCMP Action PO-1.4 - Improve agricultural practices that reduce introduction of pollutants into the Estuary.

CCMP Action PO-1.6 - Develop a comprehensive strategy to reduce pesticides coming into the Estuary.

CCMP Action PO-2.6 - Improve the management and control of agricultural sources of toxic substances.

Subtask 7.5 – Implementation Committee Focus on Pesticides – One of the CCMP actions is to implement the Regional Monitoring plan (RMP) and integrate the results of scientific monitoring into management and regulatory decisions. The RMP has detected large pulses of pesticides entering the Estuary so the IC has educated its members, continues to monitor this problem and participates in appropriate activities to address the problem. Staff seeks funding to address this issue. Support included in program management. -**Ongoing Subtask**

Subtask 7.6 – Development of Testing Procedures for Diazinon/Chlorpyrifos Replacement Pesticides - This 30-month task is funded with State bond funds and its goal is to develop tools for surface water quality monitoring programs to use in identifying pesticide-related toxicity in State surface waters. A recent SFEP study found that insecticides entering the marketplace to replace diazinon and chlorpyrifos have the potential to possess immediate or widespread threats to State waters. Currently, methods do not exist that can reliably identify them as the source of toxicity. The

goal of this project is to develop procedures that can effectively accomplish this. Funds provided by SFEP/ABAG/State Water Board contract (\$15,000). - **Ongoing Subtask**

Subtask 7.7 – Urban Pesticide Pollution Prevention - This project's goal is to provide education, outreach and technical assistance for implementation of the TMDL for Diazinon and Pesticide-Related Toxicity in San Francisco Bay Area Urban Creeks. Objectives include reducing pesticide-related toxicity in urban runoff and municipal wastewater treatment plant effluent; restoring water bodies impaired by urban pesticide use; identifying and promoting less toxic alternatives; and sustaining long-term water quality improvements by influencing pesticide use in the future. Funds provided by SFEP/ABAG/State Water Board contract and match (\$115,000).- **Ongoing Subtask**

Subtask 7.8 – Wetland Design and Management Options for Control of Mercury in San Francisco Bay - Over a three-year period, SFEP and many public and private partners will address a high priority water quality issue in San Francisco Bay, the Mercury TMDL. SFEP will provide administrative and technical support, including contract oversight. Goals for the project include recommendations for wetland design and management options to reduce methyl mercury, monitoring protocols, and tools for calculating load reductions based on monitoring data. Work will also produce estimates of methyl mercury production in habitat types and effects of wetland conditions on methyl mercury production. This project is linked to CALFED's mercury strategy framework and many other efforts underway with state and federal agencies. Costs included in SFEP/ABAG/State Water Board agreement and match (\$425,000).- **Ongoing Subtask**

Products include: participation in pollution prevention and reduction activities; technical, administrative, public outreach and education support for pollution prevention and reduction projects, including the Brake Pad Partnership; assistance with public involvement and technical support in the TMDL process, including assistance with implementing the Urban Pesticide TMDL and developing tools for surface water monitoring; and technical assistance with Clean Water Act Section 401 certifications and WDRs; and preliminary work on wetland design and management options to reduce methyl mercury in Bay Area wetlands.

Task VII. Subtotal: \$1,075,000

Task VIII. CCMP Implementation - Research and Monitoring

Priority:

Expand the Regional Monitoring Program to address all key CCMP issues, including pollution, wetlands, watersheds, dredging, biological resources, land use and flows and integrate the results of scientific monitoring into management and regulatory actions.

CCMP Action RM-2.1 –Develop and implement the Regional Monitoring Strategy, which will integrate and expand on existing efforts and eventually be part of a comprehensive Regional Monitoring Program

Subtask 8.1 – Scientific Monitoring and CCMP Priorities - SFEI staff continue to assist SFEP in making priority actions more specific based on the most recent scientific information. This effort demonstrates closer relationships between scientific findings and setting priorities for CCMP implementation (e.g., pesticide runoff from urban and agricultural areas and characterization of toxic episodes and specific causes of aquatic toxicity; development of TMDLs; development of environmental condition indicators that can be used for public education and awareness). Costs included in ABAG/EPA contract (\$10,000). - **Ongoing Subtask**

Objective RM-2 - Effectively monitor and conduct research on flow regime, pollutants, dredging and waterway modification, fish and other aquatic resources, wildlife, wetlands, and land use within the boundaries of the Estuary, using new and existing facilities, programs, agencies, and public involvement groups.

Subtask 8.2 – Electronic Reporting System for National Pollutant Discharge Elimination

System Permits (NPDES) - Friends of the Estuary and SFEP have received several Supplemental Environmental Projects (SEPs) to assist the Water Board in the design and implementation of a full-scale electronic reporting system for automated submittal to the Water Board of water quality data from all major NPDES municipal and industrial dischargers. Student interns will provide an updated and revised system to include new pollutants and parameters, additional level of QA/QC for data computation and permit compliance checking and reporting procedures, additional function keys to copy sampling points and schedules, etc. Included in this task are funds from the Clean Estuary Partnership for development of an electronic reporting system for sanitary sewage outfalls. Costs are included in Friends and SFEP/ABAG budget (\$50,000).- **Ongoing Subtask**

Subtask 8.3 – Tracking Habitat for SFEP - SFEP will provide funds to assist SFEI with the web-based habitat tracking system. SFEP tracks one indicator - habitat - the acquisition, restoration and enhancement of wetlands and riparian habitat. The information is recorded in the annual Government Performance Requirement Act report required by EPA. SFEP will work with its partners, ABAG, Water Board, SFEI to develop a strategy for an ongoing and improved habitat tracking system in a GIS format. Funds included in EPA/SFEP/ABAG agreement (\$5,000).- **Ongoing Subtask**

Subtask 8.4 – Wetlands Monitoring Review - SFEP works with the San Francisco Bay Wetland Regional Monitoring Work Group in reviews of wetland restoration design and monitoring plans for both regulatory-driven and non-regulatory projects. Funds are needed to support participation by non-governmental technical experts in reviews of these projects. SFEP will provide funds to non-governmental monitoring experts. Funds are included in the EPA/SFEP/ABAG agreement (\$8,000). - **Ongoing Subtask**

Products include: scientific analysis in developing CCMP priorities; an updated and improved Electronic Reporting System for NPDES permit holders; and development of a wetland monitoring system for tidal wetland condition in the Estuary and linked statewide; habitat tracking for SFEP provided in a GIS format; review of wetlands monitoring and design plans for restoration projects.

Task VIII. Subtotal: \$73,000

Task IX. CCMP Implementation - Dredging and Waterway Modification

Objective DW-1 - Determine the behavior and fate of sediments in the Estuary and adopt policies to manage their modifications.

Objective DW-3- Develop a comprehensive regional strategy to better manage dredging and waterway modification and ancillary activities.

CCMP Action DW-1.3 –Adopt policies to manage modification o f estuarine sediment production, movement, and deposition

Subtask 9.1 – LTMS Dredging Activities - Consistent with state policies and working with LTMS partners, SFEP will provide technical support as requested for dredging activities and will seek additional funds as needed. Staff support costs are included in the program management budget. - **Ongoing Subtask**

Subtask 9.2 – Subtidal Habitat Goals Project for San Francisco Bay - The Implementation Committee has expressed interest in the Estuary's benthos and related resources. NOAA, BCDC and the State Coastal Conservancy are the lead agencies in developing an overarching assessment of subtidal habitats and a management strategy for San Francisco Bay subtidal habitats that includes restoration goals. SFEP participates in the Project and will provide technical and administrative assistance to the San Francisco Bay Subtidal Habitat Goals Project. Funds included in EPA/SFEP/ABAG agreement (\$5,000). - **Ongoing Subtask**

Products include: technical/administrative support for LTMS related activities consistent with CCMP actions and state policies; support for Subtidal Habitat Goals Project.

Task IX. Subtotal: \$5,000

Task X. CCMP Implementation - Land Use Management

Priority:

Protect and restore watersheds, including promoting creek restoration, throughout the Estuary.

Priority:

Create incentives that motivate governments, landowners, businesses, and communities to protect and restore the Estuary.

CCMP Action LU-1.1 - Local General Plans should incorporate watershed protection plans to protect wetland and stream environments and reduce pollutants in runoff.

CCMP Action LU-2.1 - Regional agencies should assist in identifying and developing consistent policies that provide an integrated framework for local governments to protect the resources of the Estuary.

Subtask 10.1 – Local Government Outreach for Estuary Stewardship - Land use policies that protect wetlands, riparian corridors, and upland areas through city/county general plans will increase protection for sensitive aquatic species and wildlife. SFEP assists where possible the development of tools and resources to better address existing regulation and tangible strategies to protect water quality, while maintaining economic vitality. Outreach is needed about water reuse programs and the relative economic and water quality implications of preserving public open space versus allowing unplanned development. SFEP works to provide opportunities for local government to incorporate policies and programs beneficial to the Estuary's health into planning and decision-making. Additional funds are needed and costs for grant writing are included in the program management budget. -

Ongoing Subtask

Subtask 10.2 – Santa Clara Watershed Management Initiative (WMI) - The Water Board, EPA, and former participants in the Estuary Project's South Bay Geographic Subcommittee are working with local government in the South Bay to implement a Watershed Management Plan for the region. The WMI acts as the South Bay Geographic Subcommittee and the Chair is a member of the Implementation Committee. SFEP assists the WMI as needed. Costs are included in the program management budget. - ***Ongoing Subtask***

CCMP Action LU-3.1- Prepare and implement Watershed Management Plans that include the following complementary elements: 1) wetlands protection; 2) stream environment protection; and 3) reduction of pollutants in runoff.

CCMP Action PI-3.2 - Using government agencies and citizens, promote the continued development of needed citizen monitoring programs to assist in the restoration and protection of the Estuary.

Subtask 10.3 – Citizen Monitoring and the Watershed Assessment Resource Center (WARC) - Staff encourages, promotes and supports citizen projects that monitor fish and wildlife populations, habitat, and water quality in the Estuary as resources allow. Friends and SFEP work with the Water Board, SFEI and others to promote and seek funding for support of the WARC. Costs included in Friends' budget for seeking additional funds. - ***Ongoing Subtask***

Subtask 10.4 – Integrated Regional Watershed Management Plan Support - SFEP/ABAG provides assistance with the Integrated Regional Watershed Management Plan and particularly with the Watershed/Habit component of a Bay Area regional plan as resources allow. - ***Ongoing Subtask***

Subtask 10.5 – Small-Grant Program - SFEP has provided the small-grant program for the previous four years. Through a competitive process, projects will be funded that carry out education and restoration projects implementing the CCMP (\$5,000-\$10,000 each). Focus will be on watershed groups, environmental justice, citizen monitoring, removing invasives, restoring stream channels, education and outreach activities that build awareness about the Estuary's natural resources and the

need to protect them, and start-up funds for fledgling groups. An advisory committee will assist with developing criteria, evaluation and selection of proposals. Funds included in EPA/SFEP/ABAG agreement (\$90,000). - **Ongoing Subtask**

Products include: grant writing assistance with local government outreach; grant writing for technical support and training for watershed groups; providing as needed assistance for the Santa Clara Watershed Management Initiative; assistance with Bay Area IRWMP; and a small-grant program to restore and enhance the Estuary.

Task X. Subtotal: \$90,000

***Total Amount: \$2,446,700**

***(Does not include some matching funds and \$3 million Regional Monitoring Program funds)**

8. ADMINISTRATIVE AND FINANCIAL

The San Francisco Bay Regional Water Quality Control Board (Water Board) is the lead agency for implementing the CCMP. The Association of Bay Area Governments (ABAG) is a partner and provides management, administrative and fiscal support for the SFEP. All SFEP staff are ABAG employees and the SFEP office is located at the Water Board. A list of current SFEP staff and their responsibilities is attached (Appendix A).

9. NEP FUNDED GRANTS:

In 2005, SFEP organized a competitive process to select education and restoration projects that carried out the CCMP. A request for proposals was distributed to hundreds of non-governmental organizations, agencies, stakeholder and neighborhood groups. A selection committee set criteria and reviewed over 30 proposals totaling over \$250,000 in requested funding. Awards were made in the amount of \$108,000 for 16 projects. The list of projects is attached (Appendix B)

10. FUNDS LEVERAGED

Budgets for FFY years 2004-05, 2005-06 and 2006-07 are attached, providing a broader perspective on SFEP's CCMP implementation efforts. These tables list the funding entities, amounts and tasks/deliverables for the contracts, grants and donations raised by the SFEP implementation structure for carrying out the CCMP. The total estimated budget for FFY 2006-07 is \$5,973,600 - contributing to the decrease from the previous year's budget: two state bond-funded projects completed; over \$800,000 less in federal grants received; and a decrease in base funding from EPA. State/local jurisdictions and private entities continue to provide the major source of funds for CCMP implementation - approximately 86.56 percent (\$5,171,000). Federal funds provide 13.44 percent (\$802,600). Of the federal funds, the NEP provides \$492,600 or an estimated 8.25 percent of our total budget. SFEP leverages the NEP funds at a ratio of approximately 12 to one.

11. CRITICAL ROLE OF NEP FUNDS IN CCMP IMPLEMENTATION

The Section 320 - NEP funds play a significant role in SFEP funding. SFEP funds its CCMP implementation through many and varied funding sources, including state and federal grants, contracts for services with state and local jurisdictions, fines and some donations from foundations and private partnerships. All of this funding is for specific products and services that carry out CCMP actions. The Section 320 monies are the major source of staff funding, they provide SFEP the ability to collaborate, coordinate and seek additional funds for CCMP implementation. The NEP funds are the only discretionary funding available to SFEP.

12. FFY 2006-07 NON-FEDERAL SHARE (MATCH)

The total SFEP match for FFY 2006-2007 is \$495,000. The State Water Resources Control Board (State Water Board) will provide \$477,000 - \$85,000 of in-kind services by an Environmental Specialist III, a Sr. Eng. Geologist, and a Supervising Water Resources Control Engineer, staff, at the San Francisco Bay Regional Water Quality Control Board, and a \$392,000 cash match through a contract with SFEP/ABAG and the State Water Board for the Wetland Design and Management

Options for Control of Mercury Project. SFEP is providing technical and communication support for this project (See Subtask 7.9). The remaining \$18,000 ABAG match is in-kind services for accounting and management staff time.

13. TRAVEL DOCUMENTATION

A memo is attached describing the use of FFY 2005-06 travel funds and the estimated travel costs for FFY 2006-07.

2006 - 2007 ESTIMATED FUNDING

<u>Funding Source/Project</u>	<u>Non-Federal</u>	<u>Federal</u>
1. FFY 2005 EPA/State Water Board Cooperative Agreement		
Federal: Clean Water Act Section 320, NEP base funding		\$ 85,000
- SFEP/ABAG employee (IPA) provides program support		
Non-Federal Funding: (state match - staff)	\$ 85,000	
2. FFY 2005 EPA/ABAG Cooperative Agreement		
Federal: Clean Water Act, Section 320, NEP base funding		\$ 407,600
- SFEP/ABAG employees manage/provide support for SFEP, Water Board and Friends of the San Francisco Estuary		
Non-Federal Funding: (ABAG match staff/CBDA match below)	\$ 18,000	
3. FFY 2004 EPA/ABAG Cooperative Agreement		
Federal: Local govt. wetlands funding		
- SFEP/SFEI provide stream/wetlands policy		\$ 150,000
- SFEP/SFEI provide expanded wetlands tracker		\$ 5,000
Non-Federal Funding: (state/local match)	\$ 50,000	
4. 2004-2006 Water Board/ABAG MOU		
Water Board: Agency budget (in kind)	\$ 185,000	
- Water Board provides SFEP program support (space, computers, phones, etc. for 12-14 staff)		
5. 2002-05 ABAG/CA Dept. of Boating & Waterways Contract		
State: Dept. of Boating & Waterways (Clean Vessel Act)		\$ 100,000
- SFEP/Santa Monica Restoration Program provide Boater Education		
Non-Federal Funding : (ABAG, Water Board, private match)	\$ 25,000	
6. 2004-2007 State Water Board/ABAG Contract (State funds)		
- SFEP provides communication/technical support for TMDLs	\$ 200,000	
7. 2004-2006 Water Board/ABAG Contract		
Water Board: litigation, fines, other state funds	\$ 30,000	
- ACL tracking		
8. 2006-2007 ABAG/Santa Clara Valley Water Dist. Contract		
- SFEP provides technical support	\$ 115,000	
9. 2006-2007 ABAG/Alameda County Contract		
- SFEP provides technical support	\$ 92,500	
10. 2006-2007 ABAG/CalTrans Contract		
- SFEP provides technical support	\$ 92,500	
11. 2004-2005 Clean Estuary Partnership/ABAG Contract		
- SFEP provides technical support for TMDLs.	\$ 31,000	
12. 2004-2007 State Water Board/ABAG Contract (State Prop funds & match)		
- SFEP provides technical support for Brake Pad Partnership	\$ 20,000	\$ 5,000
13. 2006-2007 Friends of the San Francisco Estuary		
Donations, Grants, Contracts for CCMP implementations	\$ 175,000	\$ 25,000

2006 - 2007 ESTIMATED FUNDING (Continued)

<u>Funding Source/Project</u>	<u>Non-Federal</u>	<u>Federal</u>
14. 2007 State of the Estuary Conference		
Donations, registration	\$ 155,000	\$ 25,000
15. 2004-2007 State Water Board/ABAG Contracts (State bond funds)		
- SFEP provides support for Pesticide TMDL and research	\$ 130,000	
- SFEP provides support for design/management to reduce mercury in wetland restoration	\$ 425,000	
Non-Federal Funding: (public/private match)	\$ 100,000	
16. 2006-2009 ABAG/CALFED Contract		
- SFEP/ABAG provides tech, communication, support	\$ 215,000	
17. 2005-06 ABAG/Coastal Conservancy Contracts		
- SFEP provides writing/implementing State ANS Manage. Plan	\$ 15,000	
18. 2005-2006 ABAG/ Sea Grant Contracts (CALFED)		
- SFEP provides support Ballast Water Outreach	\$ 12,000	
19. 2005-2006 SFEI/Bay Area Dischargers Contract		
POTWs, Dischargers, Local Govt., Industry	\$ 3,000,000	
- Implement the Regional Monitoring Program		
Total Non-Federal Funding	\$ 5,171,000	
Total Federal Funding		\$ 802,600
Total Estimated Funding	\$5,973,600	

2005 - 2006 ESTIMATED FUNDING

<u>Funding Source/Project</u>	<u>Non-Federal</u>	<u>Federal</u>
1. FFY 2005 EPA/State Water Board Cooperative Agreement		
Federal: Clean Water Act Section 320, NEP base funding		\$ 100,000
- SFEP/ABAG employee (IPA) provides program support		
Non-Federal Funding: (state match - staff)	\$ 100,000	
2. FFY 2005 EPA/ABAG Cooperative Agreement		
Federal: Clean Water Act, Section 320, NEP base funding		\$ 416,999
- SFEP/ABAG employees manage/provide support for SFEP, Water Board and Friends of the San Francisco Estuary		
Non-Federal Funding: (ABAG match staff/CBDA match below)	\$ 18,000	
3. FFY 2004 EPA/ABAG Cooperative Agreement		
Federal: Local govt. wetlands funding		
- SFEP/SFEI provides Phase 2-3 Wetlands Monitoring		\$ 84,000
- SFEP/SFEI provides Wetlands Tracker		\$ 100,000
- SFEP/SFEI provide Wetlands Tracker Expansion		\$ 78,000
- SFEP/Water Board provide Stream/Wetlands Protection Policy		\$ 150,000
Non-Federal Funding: (state/local match)	\$ 137,000	
4. 2004-2006 Water Board/ABAG MOU		
Water Board: Agency budget (in kind)	\$ 185,000	
- Water Board provides SFEP program support (space, computers, phones, etc. for 12-14 staff)		
5. 2002-05 ABAG/CA Dept. of Boating & Waterways Contract		
State: Dept. of Boating & Waterways (Clean Vessel Act)		\$ 132,000
- SFEP/Santa Monica Restoration Program provide Boater Education		
Non-Federal Funding : (ABAG, Water Board, private match)	\$ 25,000	
6. 2004-2007 State Water Board/ABAG Contract (State funds)		
- SFEP provides communication/technical support for TMDLs	\$ 160,000	
7. 2004-2006 Water Board/ABAG Contract		
Water Board: litigation, fines, No. Bay, other state funds	\$ 41,000	
- ACL tracking, pollution prevention, LTMS tasks		
8. 2001-2006 ABAG/NFWF Contract (CALFED-State Funds)	\$ 90,000	
- Delta In-Channel Islands Demonstration Project		
Non-Federal Funding : (ABAG, state agencies match)	\$ 3,000	
9. 2004-2006 ABAG/Santa Clara Valley Water Dist. Contract		
- SFEP provides technical support	\$ 115,000	
10. 2005-2006 ABAG/Alameda County Contract		
- SFEP provides technical support	\$ 75,000	
11. 2005-2006 ABAG/CalTrans Contract		
- SFEP provides technical support	\$ 90,000	
12. 2004-2006 State Water Board/ABAG Contract (State Prop funds & match)		
- SFEP provides technical support for Brake Pad Partnership	\$ 350,000	\$ 25,000

2005 - 2006 ESTIMATED FUNDING (Continued)

<u>Funding Source/Project</u>	<u>Non-Federal</u>	<u>Federal</u>
13. 2005-2006 Friends of the San Francisco Estuary Donations, Grants, Contracts for CCMP implementations	\$ 175,000	\$ 25,000
14. 2005 State of the Estuary Conference Donations, registration – 2006 SOE Report	\$ 15,000	\$ 5,000
15. 2004-2007 State Water Board/ABAG Contracts (State bond funds) - SFEP provides support for Pesticide TMDL and research and - design/management to reduce mercury in wetland restoration and match	\$ 300,000 \$ 300,000	
16. 2004-2005 Clean Estuary Partnership/ABAG Contract - SFEP provides technical support for TMDLs.	\$ 63,000	
17. 2005-06 ABAG/Coastal Conservancy Contracts - SFEP provides support for Watershed/Habitat component in Bay Area IRWMP - SFEP provides technical support for spartina signage project - SFEP provides writing/implementing State ANS Manage. Plan	\$ 17,000 \$ 50,000 \$ 100,000	
18. 2006 ABAG/RMC Contract (State bond funds) - SFEP provides support for local govt. and E.J outreach in Bay Area IRWMP	\$ 23,000	
19. 2005-2006 ABAG/USFWS/Sea Grant Contracts - SFEP provides support Western Regional Panel		\$ 32,000
20. 2001-2005 ABAG/CBDA/USGS Contract - SFEP/ABAG provides tech, communication, support		\$ 325,000
21. 2005-2006 SFEI/EPA Grant - SFEI/SFEP partners provide work on San Joaquin indicators and match	\$ 33,000	\$ 100,000
22. 2005-2006 SFEI/Bay Area Dischargers Contract POTWs, Dischargers, Local Govt., Industry - Implement the Regional Monitoring Program	\$ 3,000,000	
Total Non-Federal Funding	\$5,465,000	
Total Federal Funding		\$1,572,999
Total Estimated Funding	\$7,037,999	

2004 - 2005 FUNDING

<u>Funding Source/Project</u>	<u>Non-Federal</u>	<u>Federal</u>
1. FFY 2004 EPA/State Water Board Cooperative Agreement		
Federal: Clean Water Act Section 320, NEP base funding		\$100,000
- SFEP/ABAG employee (IPA) provides program support		
Non-Federal Funding: (state match - staff)	\$ 100,000	
2. FFY 2004 EPA/ABAG Cooperative Agreement		
Federal: Clean Water Act, Section 320, NEP base funding		\$406,934
- SFEP/ABAG employees manage/provide support for SFEP, Water Board and Friends of the San Francisco Estuary		
Non-Federal Funding: (ABAG match staff/CBDA match below)	\$ 18,000	
3. FFY 2003-2005 BCDC/ABAG Cooperative Agreement		
Federal: NOAA funds provided through BCDC		
- Provide support for SF Bay Wetlands Restoration Program		\$ 17,400
4. FFY 2004-2005 EPA/ABAG Cooperative Agreement		
Federal: Local govt. wetlands funding		
- SFEP provides JARPA		\$ 22,000
- SFEP/SFEI provides Phase 1-2 Wetlands Monitoring		\$ 145,000
- SFEP/SFEI provides Wetlands Tracker		\$ 47,750
Non-Federal Funding: (state/local match)	\$ 75,600	
5. 2004-2006 Water Board/ABAG MOU		
Water Board: Agency budget (in kind)	\$ 185,000	
- Water Board provides SFEP program support (space, computers, phones, etc. for 12-14 staff)		
6. 2002-05 ABAG/CA Dept. of Boating & Waterways Contract		
State: Dept. of Boating & Waterways (Clean Vessel Act)		\$ 100,000
- SFEP/Santa Monica Restoration Program provide Boater Education		
Non-Federal Funding : (ABAG, Water Board, private match)	\$ 15,000	
7. 2004-2005 State Water Board/ABAG Contract (State funds)		
- SFEP provides communication/technical support for TMDLs	\$ 100,000	
8. 2001-2004 Water Board/ABAG Contract		
Water Board: litigation, fines, No. Bay, other state funds	\$ 78,000	
- ACL tracking, pollution prevention, LTMS tasks		
9. 2001-2006 ABAG/NFWF Contract (CBDA-State Funds)	\$ 172,000	
- Delta In-Channel Islands Demonstration Project		
Non-Federal Funding : (ABAG, state agencies match)	\$ 10,000	
10. 2002-2005 ABAG/Santa Clara Valley Water Dist. Contract		
- SFEP provides technical support	\$ 110,000	
11. 2004-2005 ABAG/Alameda County Contract		
- SFEP provides technical support	\$ 90,000	
12. 2004-2006 State Water Board/ABAG Contract (State Prop funds & match)		
- SFEP provides technical support for Brake Pad Partnership	\$ 250,000	\$ 50,000

2004 - 2005 FUNDING (Continued)

<u>Funding Source/Project</u>	<u>Non-Federal</u>	<u>Federal</u>
13. 2004-2005 Friends of the San Francisco Estuary		
Donations, Grants, Contracts for CCMP implementations	\$ 175,000	\$ 25,000
14. 2005 State of the Estuary Conference		
Donations, registration	\$ 145,000	\$ 20,000
15. 2004-2005 Clean Estuary Partnership/ABAG Contract		
- SFEP provides technical support for TMDL/Electronic Rept.	\$ 94,000	
16. 2004-2007 State Water Board/ABAG Contracts (State bond funds)		
- SFEP provides support for Pesticide TMDL and research and design/management to reduce mercury in wetland restoration	\$ 475,000	
17. 2001-2005 ABAG/CBDA/USGS Science/Drinking Water Quality Programs Contracts		
- SFEP/ABAG provides tech, communication, support	\$ 8,304,600	\$ 400,000
18. 2004-2005 ABAG/USFWS/Coastal Conservancy Contracts		
- SFEP provides support for Caulerpa Workshop		\$ 12,600
- SFEP provides support for Spartina signage project	\$ 50,000	
- SFEP provides support for Watershed/Habitat component in Bay Area IRWMP	\$ 25,000	
19. 2004-2005 SFEI/Bay Area Dischargers Contract		
POTWs, Dischargers, Local Govt., Industry	\$ 3,000,000	
- Implement the Regional Monitoring Program		
Total Non-Federal Funding	\$13,472,200	
Total Federal Funding		\$1,346,684
Total Estimated Funding	\$14,818,884	

APPENDIX A

**SAN FRANCISCO ESTUARY PROJECT
Staff List/Duties**

As of April 2006

1. Terry Adams, Administrative Secretary
San Francisco Estuary Project/Water Board
1515 Clay Street, Suite 1400
Oakland, CA 94612
Phone: 510-622-2306 Fax: 510-622-2459
E-Mail: tadams@waterboards.ca.gov
Responsibilities: Administrative Support for TMDL Process
2. Paul Amato, Environmental Specialist
San Francisco Estuary Project/Water Board
1515 Clay Street, Suite 1400
Oakland, CA 94612
Phone: 510-622-2429 Fax: 510-622-2501
E-Mail: pamato@waterboards.ca.gov
Responsibilities Technical Support-Flood Control South Bay
3. Marcia Brockbank, Program Manager
San Francisco Estuary Project/Water Board
1515 Clay Street, Suite 1400
Oakland, CA 94612
Phone: 510-622-2325 Fax: 510-622-2501
E-Mail: mbrockbank@waterboards.ca.gov
Responsibilities: Overall Program Management
4. Janet Cox, Communications Officer
San Francisco Estuary Project/Water Board
1515 Clay Street, Suite 1400
Oakland, CA 94612
Phone: 510-622-2334 Fax: 510-622-2501
E-mail: Jcox@waterboards.ca.gov
Responsibilities: Public Involvement/Outreach for TMDL Process
5. Debbi Egter Van Wissekerke, Communications Officer
San Francisco Estuary Project/Water Board
1515 Clay Street, Suite 1400
Oakland, CA 94612
Phone: 510-622-2304 Fax: 510-622-2501
E-Mail: dvanwissekerke@waterboards.ca.gov
Responsibilities: Education/Outreach, Conference/Meeting Support, Graphics, Web Site
6. Bruce Ho, Environmental Specialist
San Francisco Estuary Project/Water Board – North Coast
5550 Skylane Blvd.
Santa Rosa, CA 95403
Phone: 707-576-2460 Fax: 707-523-0135
E-Mail: bho@waterboards.ca.gov
Responsibilities: Technical Support for Stream/Wetland Protection Policy

7. Jennifer Krebs, Environmental Planner
San Francisco Estuary Project/Water Board
1515 Clay Street, Suite 1400
Oakland, CA 94612
Phone: 510-622-5686 Fax: 510-622-2501
E-Mail: jkrebs@waterboards.ca.gov
Responsibilities: Stormwater Outreach to Local Govt., JARPA, Pesticide TMDL Support
8. Ben Livsey, Environmental Specialist
San Francisco Estuary Project/Water Board
1515 Clay Street, Suite 1400
Oakland, CA 94612
Phone: 510-622-2300 Fax: 510-622-2460
E-Mail: blivsey@waterboards.ca.gov
Responsibilities Technical Support for Stream/Wetland Protection Policy
9. Karen McDowell, Ph.D., Environmental Planner
San Francisco Estuary Project/Water Board
1515 Clay Street, Suite 1400
Oakland, CA 94612
Phone: 510-622-2398 Fax: 510-622-2501
E-Mail: kmcdowell@waterboards.ca.gov
Responsibilities: Boater Education Program, Conference Management, Invasive Species Issues
10. Laura Speare, Communications Officer
San Francisco Estuary Project/Water Board
1515 Clay Street, Suite 1400
Oakland, CA 94612
Phone: 510-622-2452 Fax: 510-622-2459
E-Mail: lspeare@waterboards.ca.gov
Responsibilities: Public Involvement/Outreach for Pesticide TMDL Process
11. Brendan Thompson, Environmental Specialist
San Francisco Estuary Project/Water Board
1515 Clay Street, Suite 1400
Oakland, CA 94612
Phone: 510-622-2506 Fax: 510-622-2501
E-Mail: bthompson@waterboards.ca.gov
Responsibilities: Technical Support: Permits Transportation Projects (Caltrans)
12. Carol Thornton, Environmental Planner
San Francisco Estuary Project/Water Board
1515 Clay Street, Suite 1400
Oakland, CA 94612
Phone: 510-622-2419 Fax: 510-622-2501
E-Mail: cthornton@waterboards.ca.gov
Responsibilities: Erosion Control Education, Supplemental Environmental Projects, Small Grants and Habitat Programs
13. Paula Trigueros, Contract Administrator
San Francisco Estuary Project/Water Board
1515 Clay Street, Suite 1400
Oakland, CA 94612
Phone: 510-622-2499 Fax: 510-622-2501

E-Mail:ptrigueros@waterboards.ca.gov
Responsibilities: Contract Administration and Management

14. OPEN, Environmental Specialist
San Francisco Estuary Project/Water Board
1515 Clay Street, Suite 1400
Oakland, CA 94612

Phone: Fax:

E-Mail:

Responsibilities Technical Support: TMDL Process (Clean Estuary Partnership funded)

15. OPEN - Environmental Specialist
San Francisco Estuary Project/Water Board
1515 Clay Street, Suite 1400
Oakland, CA 94612

Phone: Fax:

E-Mail:

Responsibilities Technical Support: Flood Control for Creek/Wetlands Alameda County