



## **ESTUARY 2100 (PHASE 2) FUNDING: Improving Water Quality & Fostering Water Stewardship Throughout the Bay Region**

### **PARTNER APPLICATION GUIDELINES**

#### **I. Estuary 2100 Overview**

Estuary 2100 is a grant partnership program under the auspices of San Francisco Estuary Partnership (SFEP). The program, currently funded by USEPA, has four priority areas: Integrated Creeks & Wetlands, Climate Change, Green Infrastructure & Public Outreach. These four areas are described in Attachment 1. SFEP is currently working with 16 partners in a wide range of projects to build estuary resiliency (see Attachment 2 for a list of partners and projects funded under Estuary 2100 Phase 1). SFEP intends to continue this program by responding to an anticipated grant by USEPA, likely due in August 2009.

#### **II. Estuary 2100 (Phase 2) Partnership Solicitation**

SFEP invites local governments, non-profit agencies, community organizations, and other government agencies to submit an application to partner with SFEP on Estuary 2100 Phase 2. Selected partners will be included in SFEP's application to USEPA for a *competitive grant program* to be announced in June 2009. (The grant last year was issued under the 104B3 Program - [San Francisco Bay Water Quality Improvement Program](#)). If Estuary 2100 is awarded a grant by EPA, then the Association of Bay Area Governments, SFEP's parent agency, will contract with the selected partner.

San Francisco Estuary Partnership's mission is to restore water quality and manage the natural resources of the San Francisco Bay-Delta Estuary while maintaining the region's economic vitality. For more than 20 years, SFEP and its partners have worked together to protect and restore the Estuary. A federal-state-local partnership, SFEP is one of 28 National Estuary Programs throughout the United States that were established under the Clean Water Act.

Together with its partners, SFEP developed a plan of action to protect and restore the Estuary called the Comprehensive Conservation and Management Plan; the plan was updated in 2007. The CCMP serves as a roadmap for restoring the estuary's chemical, physical and biological health. Recently through a strategic planning process, SFEP's Implementation Committee adopted the four priority

areas of Estuary 2100 as SFEP's current strategic focus. In Estuary 2100 Phase 2, SFEP is seeking partners/projects that improve water quality & fostering water stewardship throughout the bay region in one of the 4 priority areas. Attachment 2 lists last year's partners and provides ideas of the types of projects that are key to our agenda. Innovative new ideas are also welcome.

Because EPA has not yet issued their RFP, SFEP encourages you to check back to SFEP's website ([sfestuary.org](http://sfestuary.org)) and/or EPA's website to get EPA's guidelines before submitting a proposal to us. Note, too, that SFEP must compete for EPA funds & that selection by SFEP to be a grant partner does not guarantee funding.

### III. Eligible Applicants

Local governments, non-profit agencies, community organizations, other government agencies, and / or multi-party teams within the nine-county San Francisco Bay Area are eligible to apply.

### IV. Funding Available

SFEP anticipates selecting five to eight projects of \$100,000 to \$600,000 each. Each partner must provide a 25 percent match. This can be in-kind or with *other non-federal funding source(s)* such as a state grants, local funds, and/or foundation funds. The project should be able to demonstrate results within three years. Construction projects should be "shovel ready," i.e. environmental permitting should be complete.

### V. Evaluation Criteria

Eligible partner applications will be reviewed by an Advisory Committee selected by SFEP and comprised of SFEP stakeholders from around the region. The Committee will base its review on the following evaluation criteria:

- 1) Does the project implement a priority area(s) of the CCMP?
- 2) Does the project include strong, committed partners?
- 3) Does the project have well defined outputs and outcomes that can document its success? (see Attachment 3 for examples of Outputs and Outcomes)
- 4) Does the project have multiple benefits (other CCMP areas)?
- 5) Is the project ready to go (has additional matching funds, has permits, etc.)?

Applicants should be careful to address these criteria in their applications.

### VI. Application Submission Instructions

SFEP must receive all application materials by 5:00 p.m. on June 15, 2009. However, if USEPA announces the RFP for their grant program after June 5,

then SFEP will extend the deadline of this RFP until 2 weeks after EPA's announcement.

Only complete applications received by this deadline will be considered for review. The application (Attachment 4) must include the following three items:

1. *Estuary 2100 Project Information Sheet / Partner Application*
2. *Thorough Project Description (last item on the Information Sheet)*

The project description must provide a concise overview of the project, including a task breakdown, including task costs, and the relationship of the tasks to outputs (deliverables) and outcomes.

3. *Project Schedule and Budget*

The project schedule should include a timeline of activities to be performed and deliverables/outputs. The project budget should show how grant funds will be used. If other project partners or funding sources are involved, their role and contribution should be clearly defined. If consultants will be part of the project team, their role and costs should be identified.

Please e-mail application materials to [Jkrebs@waterboards.ca.gov](mailto:Jkrebs@waterboards.ca.gov) as attachments. If e-mailing is not possible, applications can be mailed or hand delivered:

SFEP, attention Jennifer Krebs  
1515 Clay Street, Suite 1400  
Oakland, CA 94612

## VII. Milestone Dates

- Application Released - May 15, 2009
- Anticipated Release by EPA of New Grant Program Guidelines - June 1, 2009. SFEP will post a link to EPA's guidance on our website (<http://sfestuary.org/>) when it is available.
- Application Deadline - June 15, 2009
- Advisory Committee Reviews/Notification of selected Partners/Projects - June 30, 2009
- Anticipated submission of SFEP Proposal to EPA - August, 2009
- Anticipated Notification by EPA of SFEP proposal status November, 2009
- Anticipated Estuary 2100 (Phase 2) Start date - *if proposal is successful* - March, 2009

**If you have questions about the grant application process, please contact:**

Jennifer Krebs, Principal Planner  
San Francisco Estuary Partnership  
510.622.2315  
[Jkrebs@waterboards.ca.gov](mailto:Jkrebs@waterboards.ca.gov)

# Attachment 1

## Estuary 2100 Phase 2

### Improving Water Quality & Fostering Water Stewardship Throughout the Bay Region

#### Integrated Creeks & Wetlands

The San Francisco Estuary Partnership is a leading regional partnership organization working to promote healthy wetlands, streams, and watersheds of the Estuary. Our strategy is to assist partners to better integrate restoration projects within key watersheds, from headwaters to tidal wetlands. Our objective is to increase the health and resiliency of the Estuary's watersheds and to increase active partnerships within the region by helping coordinate entities that have not typically worked together (i.e. creek groups, local, state, and federal agencies, adjacent local landowners, flood control districts, etc.), to improve water quality and habitat health.

#### Climate Change

As the evidence for climate change grows, many local, regional, state, and federal entities are working to develop mitigation and adaptation responses. The Partnership's role is to work with other regional organizations (coordinated principally through the Joint Policy Committee) to ensure that wetlands of all kinds—critical to ensuring climate resiliency for the Estuary—are protected, restored, and maintained over time. Additionally, the Partnership will focus on ensuring that critical water decisions are included in smart growth planning activities. This includes promoting increased water conservation efforts among local governments and water and waste water agencies, and collaborating with regional and local agencies to collect and share information about the effects of climate change on watersheds and infrastructure.

#### Green Infrastructure

In conjunction with the Association of Bay Area Governments' FOCUS initiative, which seeks to encourage future growth near transit and in the existing communities that surround San Francisco Bay, SFEP supports innovative local low impact development (LID) projects that improve stormwater quality and protect watersheds. Additionally, the Project works to develop and promote a regional vision of inter-connected local LID projects. The Project also encourages and supports green stormwater retrofit projects in already-developed areas.

#### Public Outreach

The Partnership provides up-to-date information on the ecology of the Estuary/Bay and important protection/restoration initiatives. Through conferences, workshops, websites, and print media, SFEP is a resource for local decision makers and the general public in making Bay-friendly decisions.

## Attachment 2

### Estuary 2100 Phase 1 Projects/Partners

**Stonybrook Creek Bio-Engineered Bank Stabilization** The Alameda County Flood Control District will stabilize the banks of Stonybrook Creek, an upper watershed tributary to Alameda Creek, in three locations. These efforts will decrease turbidity and fine sediment, which are detrimental to sensitive species, including the federally-listed endangered steelhead trout. Reducing sediment loads and turbidity in the creek will contribute to the significant multi-agency effort underway to re-establish a thriving population of the native steelhead in the watershed. **Implementer:** Alameda County Flood Control District **Funding: Estuary 2100** \$147,750 / \$268,460 in kind match Alameda County Flood Control District **Total Budget: \$416,210**

**Bahia Restoration & Revegetation Project** This project will enhance the habitat value of an important area of seasonal tidal marsh at Bahia Marsh in Marin County, over a three-year period. Work will focus on growing and planting 40,920 native plants, which will help establish upland transition zones adjacent to the existing tidal wetlands. This additional vegetation will contribute to a more ecologically complete and resilient wetland habitat attractive to the federally-listed, endangered California Clapper Rail, salt marsh harvest mouse, and other fauna. **Implementer:** Marin Audubon Society **Funding: Estuary 2100** \$56,000 / \$40,638 Combined Partner Match from Forrest and Frances Lattner Foundation, Patagonia, Wildlife and Fisheries Advisory Committee, National Audubon Society **Total Budget: \$96,638**

**Candlestick Point State Recreation Area, Yosemite Slough Wetlands Restoration** Bay Youth for the Environment, a wetland education program under the auspices of the California State Parks Foundation, will propagate and plant 5,000 to 6,000 native species in the Yosemite Slough Wetlands, the largest contiguous wetland area in the City and County of San Francisco. This project offers a unique combination of training in wetland ecology, horticultural techniques, nursery operations, as well as general life/professional skills development for local youth from the under-served Hunters' Point community. At the same time, it restores an area of the Bay where urban impacts to wetlands have been among the most severe; the project site is currently undergoing remediation to remove toxic sediment, which stormwater runoff currently washes to the Bay during high rainfall events. **Implementer:** California State Parks Foundation **Funding: Estuary 2100** \$98,500 / Partner combined match of \$800,103 from Richard and Rhonda Goldman Foundation, Adobe Foundation, Bechtel Foundation, Hass Sr. Foundation **Total Budget: \$898,603**

**Senador Mine Erosion Control** In the 1990's, Santa Clara County, under the direction of California Department of Toxic Substance Control, assessed former mercury mining sites at Almaden Quicksilver County Park, and remediated certain sites. Although the Senador mine site was one of the remediated sites, the area continues to add to the mercury load in Guadalupe watershed, which drains to the South Bay Salt Ponds. The County will undertake a variety of erosion control strategies, including regrading and planting, to minimize mercury-laden sediment from entering the watershed as required to implement the Guadalupe River Watershed Mercury TMDL. **Implementer:** Santa Clara County **Funding: Estuary 2100** \$492,500 / \$226,000 in kind match Santa Clara County **Total Budget: \$718,500**

**Shoreline Habitat Restoration** At Eden Landing Ecological Reserve in Hayward and Martin Luther King Jr. Regional Shoreline in Oakland, trained community volunteers directed by staff of Save the Bay will establish and enhance tidal marsh transition zone habitat for recovery of endangered species and improved water quality. MLK Shoreline is at the confluence of five urban

creeks, and a magnet for thousands of stewardship volunteers; Eden Landing Ecological Reserve is at the mouth of Alameda Creek, where additional upstream restoration activities are underway to benefit salmon and steelhead. **Implementer:** Save the Bay **Funding:** Estuary 2100 \$197,000 / \$140,000 in kind match Save the Bay **Total Budget:** \$337,000

**Protecting Instream Flows for Fish in the North Bay** Over one year, the California Land Stewardship Institute will evaluate experimental approaches to providing frost protection to vineyards in order to reduce springtime water diversions in the North Bay. Future efforts will develop best management practices from the successful approaches and promote the BMPs to vineyard owners. Reducing stream diversions for frost control should help maintain stream-flow levels which are vital to young fish during a very vulnerable stages in their development. **Implementer:** California Land Stewardship Institute **Funding:** Estuary 2100 \$98,500 / Match of \$25,000 from CALFED Ecosystem Restoration Grant to CSLI **Total Budget:** \$123,500

**Stream Management Program for Landowners** Reducing the amount of sediment in creeks and streams is essential to supporting and reestablishing viable populations of salmonids. The importance of such efforts is underscored by a growing number of TMDLs for sediment in Bay Area streams and by the identification of excessive sediment as a priority issue in the CCMP. This unique program, directed by the Urban Creeks Council (UCC), will assist creekside property owners in implementing state-of-the-art erosion control techniques that will protect their property and reduce sedimentation in key watersheds. Approaches include redesigning and revegetating stream channels, minimizing soil disturbances, and restoring soil-food web relationships. **Implementer:** Urban Creeks Council **Funding:** Estuary 2100 \$393,998 / in kind match Alameda, Contra Costa, Marin County Public Works Agencies \$400,000 **Total Budget:** \$793,998

**Littorina Eradication Project** This project aims to stop a new invasive species before it becomes a large-scale problem. To prevent the exotic snail *Littorina littorea* from establishing itself in San Francisco Bay, volunteers will remove the snails from areas with known, incipient populations. *Littorina* species will be studied to determine the best control strategies to prevent them from becoming fully established. New outreach materials will help inform the public and encourage reporting of future sightings. **Implementer:** SFEI **Funding:** Estuary 2100 \$25,000 **Total Budget:** \$25,000

**Invasive Spartina Project** This critical project will complete ongoing efforts by the California Coastal Conservancy to reduce the last 150 acres of baylands infested with invasive *Spartina* to zero net acres, an unprecedented accomplishment achieved through the coordinated work of numerous public agencies and private nonprofit organizations over the last decade. Control and eradication of *Spartina* is particularly important to support broader efforts around the Bay to restore wetlands because this species spreads rapidly, crowding out native cordgrass and other plants and simplifying our wetland ecosystems, which makes them less able to support a healthy range of native flora and fauna, including the endangered California Clapper Rail. **Implementer:** California Coastal Conservancy & Partners **Funding:** Estuary 2100 \$172,375 / \$87,500 in kind match Coastal Conservancy **Total Budget:** \$259,875

**Innovative Wetland Adaptation Techniques in Lower Corte Madera Creek Watershed** BCDC will study the effects of sea level rise and the impact of the local sediment budget on wetland restoration in the watershed. Outcomes will include wetland restoration strategies that will increase resilience to, and mitigation of, climate change impacts on water quality. **Implementer:** BCDC and consultants, **Funding:** Estuary 2100 \$591,000 / Partner match \$640,000 in kind Marin County Public Works Department **Total Budget:** \$1,231,000

### **Habitat Evolution Monitoring Pilot Program, and Pond A8 Muted Tidal Restoration**

The Habitat Evolution Monitoring Pilot Project will use remote sensing technology to map and analyze vegetation, mudflat, and channel evolution in the South Bay Salt Ponds as restoration progresses. These findings will be essential in evaluating baylands restoration approaches and methodologies under changing conditions. The Pond A8 Project will introduce muted tidal action from Alviso and Guadalupe Sloughs to create approximately 1,400 acres of shallow subtidal habitat in Ponds A5, A7, and A8. This will be accomplished by construction of a 40-ft wide notch at the southern end of Pond A8 and an approximately 475-foot-long pilot channel through the fringe marsh of Alviso Slough. This Project is necessary to determine how tidal marsh can be safely restored in Alviso Slough, which has a legacy of mercury contamination from the Guadalupe River. **Implementer:** South Bay Salt Ponds; **Funding:** Estuary 2100 \$403,850 / Partner Match \$1,144,000 from California Prop. 40 grant to the Santa Clara Valley Water District **Total Budget: \$1,547,850**

**Bay Area Stream Channel Restoration Design Curves** The Waterways Restoration Institute will develop a critical design tool that will guide the stream restoration projects around the Bay Area. Regional "restoration curves" indicate the appropriate width and depth of a restored stream channel that will achieve equilibrium stability and avoid excessive erosion, deposition, and flooding. The curves will be developed through field research, analysis of rainfall and flow data, and watershed size, using representative streams in Marin and Sonoma Counties. This project will not only enhance the opportunities for success of the projects described in this proposal, but the results can also be used for future restoration projects throughout the Estuary. The San Francisco Bay Regional Water Quality Control Board will publish them as part of its water quality permit and stream protection programs. **Implementer:** Waterways Restoration Institute **Funding:** Estuary 2100 \$30,000 **Total Budget: \$30,000**

**Modeling, Monitoring, and Reporting** San Francisco Estuary Institute (SFEI) will implement a project QAPP (Quality Assurance Project Plan) to track **Estuary 2100** projects to establish monitoring protocols and report outputs and outcomes. SFEI will target monitoring and modeling on a group of projects that should demonstrate results within the required time frame: Shoreline Habitat Restoration (photo documentation and monitoring design of native plant recovery); Bahia Restoration and Revegetation (monitoring and design review, and monitoring program implementation support); Littorina Eradication Project (develop long-term eradication monitoring program & public outreach success monitoring); Protecting Instream Flows for Fish in the North Bay (develop pre- and post-BMP monitoring program to assess flows); Senador Mine Erosion Control (work with RWQCB and Santa Clara County Parks to develop a meaningful and cost effective long-term monitoring plan). **Implementer:** SFEI **Funding:** Estuary 2100 \$246,250 / SFEI in kind match \$45,000 **Total Budget: \$291,250**

**Green Solution Project** will quantify and identify suitable public lands in two Bay Area counties for conversion from impervious to pervious land cover, and retrofit to serve as seasonal retention/filtration areas for urban/stormwater runoff—and also achieve additional public benefits. As has been demonstrated in other California communities, such lands can act as natural pollutant filters and treatment areas, while meeting needs for parks, playing fields, and wildlife habitat. This project will be expanded to other counties as funding permits. **Implementer:** Community Conservancy International **Funding:** Estuary 2100 \$246,250 / California Coastal Conservancy match \$250,000 **Total Budget: \$496,250**

**Keep It Clean** will collaborate with Bay Area local governments to promote and replicate proven Bay-friendly best management practices and outreach strategies. Working directly with several cities, Save The Bay will

provide tools to better protect San Francisco Bay and its watersheds from runoff pollution, and will partner with ABAG, SFEP, and the Regional Water Board to strengthen regional support networks for water quality improvement. Save The Bay will also expand its innovative outreach and engagement strategies to the general public, in order to promote Bay-friendly behavior by area residents. The project will track success and conduct outreach to additional cities based upon successes. **Implementer:** Save the Bay **Funding: Estuary 2100** \$394,000 request / Partner matches totaling \$480,000 from Richard & Rhoda Goldman Fund, Rose Foundation, Oracle, and TEAK Motion Visuals **Total Budget: \$874,000**

**Bayview Model Block Project** Architecture for Humanity, a non-profit network of design professionals, has designed a traffic-calming, community building, street-greening project for the 1700 block of Newcomb Avenue in San Francisco's low-income Bayview district. This Estuary 2100 project will implement the design for a green streetscape, planting trees and other drought tolerant plants and installing specially designed stormwater-filtering planters to infiltrate stormwater runoff, and traffic chicanes to calm traffic and create community gathering places. The City and County of San Francisco will monitor the project to quantify reductions in stormwater runoff due to green infrastructure improvements, and develop a template for future projects. **Implementer:** City and County of San Francisco **Funding: Estuary 2100** \$492,500 request / in kind match \$800,000 **Total Budget: \$1,292,500**

### Attachment 3 Examples of Outputs and Outcomes

	Green Street Demonstration Project	Creek Restoration Project	Wetland Restoration Project	Environmental Education/Wetland Restoration Project
<b>Project Outputs (i.e. deliverables)</b>	(1) Construction of a green street that demonstrates the feasibility of green streets (2) report(s) that document the following metrics (a) Comparison of treated and untreated storm water flows and volume; (b) maintenance costs of a green street	(1) 1000 linear feet of creek stabilized; and (2) report documenting baseline ecological assessment data.	Report(s) documenting (a) Baseline ecological assessment data; (b) 5000 native plants propagated; and (c) 5000 native plants planted; and (d) habitat maps	Report(s) documenting (1) Baseline ecological assessment data; (2) 5,000 native plants propagated and planted; (3) 80 percent or more plant cover in marsh and transitional habitat, excluding salt panne habitat; (4) 10 youth interns involved in outreach program; and (5) 6 community meetings and public outreach events attended by 500 students and 300 members of the general public.
<b>Project Outcomes (i.e. measurable result)</b>	(1) Acceptance of LID concepts by city departments as shown by 5 LID guidelines, policies, and projects being proposed and adopted	Reduction in bed and bank incision and erosion as measured by channel geomorphology.	50 acre increase in tidal and seasonal wetland habitat.	Increase in community awareness as demonstrated by an increase in pre and post testing scores. Increased public stewardship as measured by community participation in watershed stewardship activities. Presence of more diverse and healthy biota.
<b>CCMP or other long-term goal</b>	Regional adoption of green infrastructure practices. Climate resilient urban planning. Reduced stormwater flows resulting in reduced Bay pollution and improved watershed function.	Increased stream and riparian ecological function. Survival and recovery of listed & endangered species (steelhead trout)	Increase in extent of and quality of wetlands, of wetland function and of wetland productivity as described in Goals Project.	Increase in extent of and quality of wetlands, of wetland function and of wetland productivity as described in Goals Project.

## Attachment 4 Estuary 2100 Phase 2 Project Information Sheet / Partner Application

**Project Name:**

**Responsible Agency/Contact:** *Identify one agency that is involved in the project & is responsible for providing information. Identify a contact person, their phone number, mailing address, and email*

**Other Participating Agencies:** *List any other collaborating agencies*

**Summary Description:** *Please provide a one paragraph description of the project.*

**Primary Estuary 2100 Focus:**

- Integrated Creeks & Wetland
- Green Infrastructure
- Climate Change
- Public Outreach

**Purpose & Need:** *Please provide a detailed description of the purpose and need for the project. Include a discussion of the project's goals and objectives and the critical impacts that will occur if the project is not implemented.*

**Project Status & Schedule:**

*Please complete the projected (or actual) start & finish dates for each of the following project stages. If any stage does not apply, please enter N/A.*

<i>Stage</i>	<i>Duration</i>	<i>Start Date</i>	<i>End Date</i>
<i>Planning</i>			
<i>Permitting</i>			
<i>Implementation/Construction</i>			
<i>Evaluation</i>			

**Project Costs:** *Please identify the costs the project by area noted. Include matching funds*

<i>Budget Area</i>	<i>Grant Funds</i>	<i>Match Funds</i>	<i>Total Project</i>
<i>Personnel</i>			
<i>Fringe</i>			
<i>Travel</i>			
<i>Supplies/Equipment</i>			

<i>Contractual</i>			
<i>Construction</i>			
<i>Other Direct</i>			
<i>Indirect</i>			
<i>Income</i>			

**Source(s) of the matching funds listed above:**

**Use of Contractors/Consultants:** *Please list any tasks above to be conducted by contractors outside your agency. SFEP requires adherence with EPA contracting guidelines on women and minority contractors*

**Benefits and Impacts:** *Please provide a detailed discussion of the projected benefits and impacts of the project, both locally and for the Estuary*

**Environmental Justice:** *Please include a discussion of how the project will benefit or impact disadvantaged communities or environmental justice goals.*

**Documentation of Feasibility:** *Please identify any studies that document the technical and economic feasibility of the project. If no studies exist, please type NA.*

**Outputs & Outcomes:** *What will be the outputs (i.e. deliverables) of your project?*

*What outcomes will your project achieve? How will you measure these outcomes?*

*Does your project address any specific CCMP areas/actions?*

**Detailed Project Description:**

*Please provide a detailed description of the tasks, outputs and outcomes of your project. Include any information relevant to how your project will help achieve CCMP goals and objectives not already covered under other questions.*