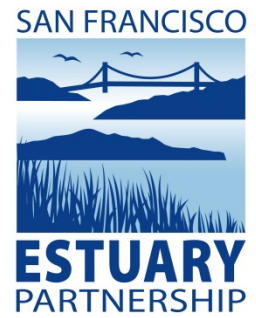


SAN FRANCISCO ESTUARY PARTNERSHIP
FY 17 WORK PLAN AND BUDGET
OCTOBER 1, 2016 - SEPTEMBER 30, 2017



Pacheco Marsh. Photo by Stephen Joseph, courtesy of Contra Costa County Flood Control and Water Conservation District



FY 17 Work Plan and Budget

October 1, 2016 – September 30, 2017

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INTRODUCTION

The San Francisco Estuary Partnership (“Partnership” or “SFEP”) collaborates with federal, state, and local agencies and stakeholder partners whose mission is to restore and improve the health of the San Francisco Estuary. The Partnership developed and tracks implementation of the Estuary’s environmental master planning document, the *Comprehensive Conservation and Management Plan*, (CCMP); manages environmental projects throughout the greater San Francisco Bay Area; and educates the public about Bay-Delta ecological issues. The Partnership also sponsors scientific conferences and colloquia including the biannual State of the Estuary Conference and publishes reports such as *The State of the Estuary* (2015). This work is currently supported by more than 30 federal, state, and local grants and contracts that cover over 70 projects, and by the San Francisco Bay Regional Water Quality Control Board, which houses our offices, and the Association of Bay Area Governments, our host entity.

This work plan addresses the requirements of receiving annual US EPA implementation funds. Our 2016/17 \$600,000 appropriation of Section 320 EPA funding is a small, but critical part of the budget as it allows staff to work on efforts not directly funded by the other specific grant/contract funds. The workplan is approved by the Partnership’s Implementation Committee prior to providing it to EPA.

This work plan summarizes our budget, and lists the projects, programs, and partners that SFEP will be working on from October 2016 to September 2017. Some of these projects were designed by and are directly managed by SFEP staff, but most of the work plan’s projects are being implemented by our partners, with SFEP providing financial and administrative oversight.

It is important to stress that the Partnership’s budget and work plan are continuously in flux. With only the EPA annual allocation as a constant income source, the Partnership must constantly work to develop new projects and find new funds and Partnership staff are continuously working with possible new funding partners and applying for new awards. This means that new projects are always in the pipeline and that staffing allocations of time and budget shift frequently to meet new obligations as additional funds are secured. This means that the work plan that will be approved by the Implementation Committee in May 2016 will be somewhat different from the Partnership’s actual work during October 2016 to September 2017.

WHAT'S NEW IN 2016/17

The work plan has been restructured to reflect the *2016 Comprehensive Conservation and Management Plan: Actions for a Healthy Estuary*. The new CCMP looks to the future of the Bay-Delta Estuary. How can the people and communities that surround the Estuary best protect this economic engine while restoring the values of this greatly stressed union of water, tidal habitats and uplands? With the expected impacts of climate change and continued population growth, what will the Estuary look like in 50 years? What do we need to plan for now – and what actions can we take in the near-term to help ensure a thriving Estuary 35 years from now, despite the changes we can expect and those which we cannot yet foresee?

The *2016 CCMP: Actions for a Healthy Estuary* is the result of two years of work involving myriad partners, experts and stakeholders. A unifying collaborative blueprint, the CCMP includes four goals that represent the 35 year vision for the future of the San Francisco Bay-Delta Estuary, 12 objectives that detail desired outcomes that make progress towards achieving goals, and 40 actions that lay out a set of priority tasks to be accomplished over the next 5 years to reach one or more objectives. The *2016 CCMP* builds upon the *2015 State of the Estuary Report* by linking management responses to the findings of the *State of the Estuary Report* and using the health indicators contained *State of the Estuary Report* to track long term outcomes of the actions where possible, thus better integrating SFEP's science and planning documents and facilitating an adaptive management approach for SFEP and the region.

The work plan has been streamlined into three categories of projects. Both ongoing and new funded projects are listed. The third category lists new initiatives from the 2016 CCMP that SFEP is committed to pursuing through identifying and securing new partnerships and funding sources. Every project has been tagged with the 2016 CCMP goals and objectives the project helps meet.



2016 CCMP GOALS AND OBJECTIVES

*Where do we want to be in 2050,
and what can we do in the next five years to get started?*

GOAL 1: Sustain and improve the Estuary's habitats and living resources

Objectives:

- a. Protect, restore, and enhance ecological conditions and processes that support self-sustaining natural communities
- b. Eliminate or reduce threats to natural communities
- c. Conduct scientific research and monitoring to measure the status of natural communities, develop and refine management actions, and track progress towards management targets

GOAL 2: Bolster the resilience of the Estuary ecosystems, shorelines and communities to climate change

Objectives:

- d. Increase resilience of tidal habitats and tributaries to climate change
- e. Increase resilience of communities at risk from climate change impacts while promoting and protecting natural resources
- f. Promote integrated, coordinated, multi-benefit approaches to increasing resiliency

GOAL 3: Improve water quality and increase the quantity of fresh water available to the Estuary

Objectives:

- g. Increase drought resistance and water efficiency and reduce demand on imported water
- h. Improve freshwater flow patterns, quantity, and timing to better support natural resources
- i. Reduce contaminants entering the system and improve water quality

GOAL 4: Champion the Estuary

Objectives:

- j. Build public support for the protection and restoration of the Estuary
- k. Strengthen regional leadership in support of Estuary health
- l. Promote efficient and coordinated regional governance

BUDGET

FY 17 Budget Estimate

SFEP manages approximately \$100.9 million for more than 70 projects funded by grants and contracts. As most of those grants are multi-year, this fiscal year budget estimate represents the slice that we would expect to receive and expend during that October 1 to September 30th federal fiscal year.

Our estimated FY 2017 budget is \$24,487,492.

We have provided four figures showing various breakdowns of our budget:

1. Total projected income, showing various funding sources
2. Breakdown of Federal versus State and local funding
3. Breakdown of Federal National Estuary Program funding (Section 320 “base funds”) versus other funds
4. SFEP-specific funds to manage projects versus passed-through funds to partners for implementation

The full budget is included after the work plan table as Attachment A.

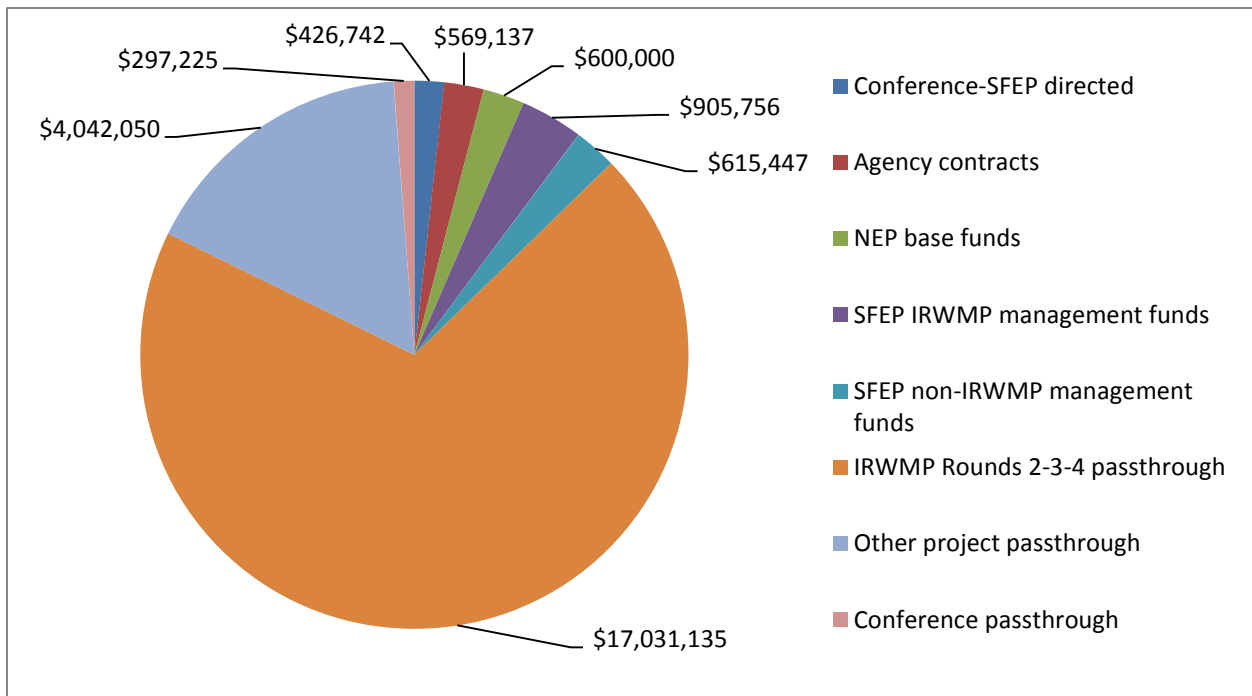


Figure 1: Breakdown of various funding types, FY 17. (Legend labels start with the top slice and proceed clockwise.)

The top sections of Figure 1 show funds that SFEP directs: conference funds, agency permit staff funds, NEP base funds, IRWMP management funds, and funds to manage non-IRWMP projects. The largest slice of the pie is IRWMP passthrough funds, followed by other project passthrough and

conference passthrough. SFEP-retained or SFEP-directed funds versus passthrough funds are summarized in Figure 4.

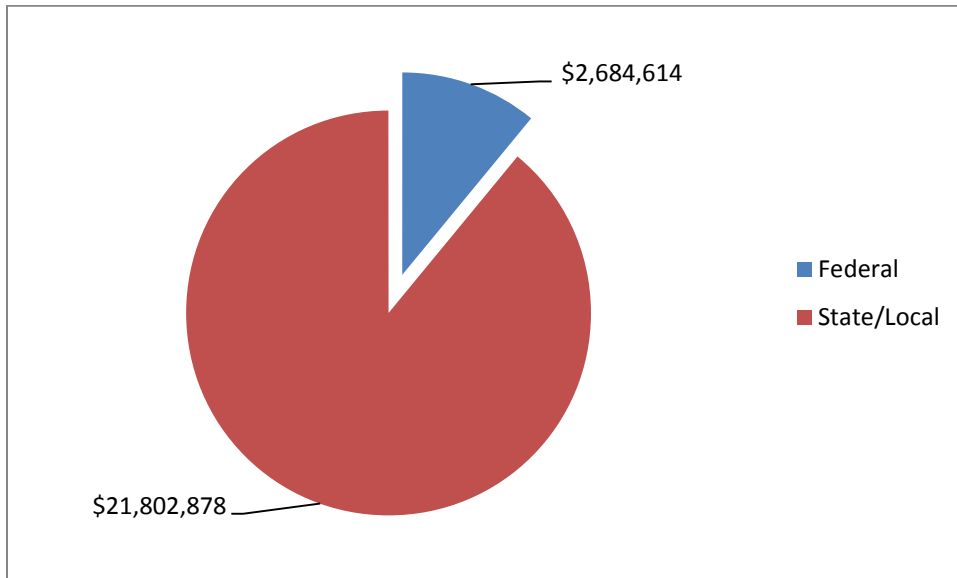


Figure 2: Federal vs State and local funds, FY 17

Approximately 11% of our funding this Federal fiscal year comes from Federal funding. The remaining 89% comes from State and local contracts. The additional Integrated Regional Water Management Plan (IRWMP) state-funded projects make this total much higher than in previous years.

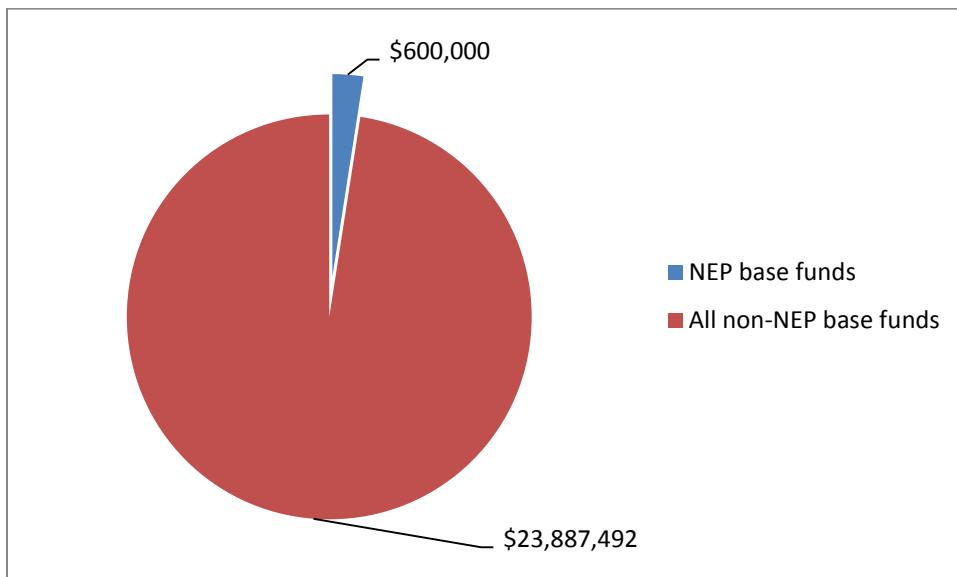


Figure 3: Section 320 "base" funds versus other funding, FY 17

Our National Estuary Program Section 320 "base" funds from EPA account for 2% of our annual budget this fiscal year. Of our "operating" budget (see chart below), the \$600,000 accounts for

approximately 19%. These highly leveraged National Estuary Program funds provide partial support for salary, benefits, and other fixed costs for core staff.

Our Section 320 funds must have a 50 percent match. Match funds come from contracts with local water agencies to fund staff assisting with permitting for the San Francisco Regional Water Quality Control Board and state contracts for science support. ABAG also provides direct project match as well as in-kind support for financial statements, payables reports, invoicing, and legal assistance.

SFEP leverages \$39,120,404 in state and local funds primarily for IRWMP grant management. That total includes \$889,314 of leverage from Water Board in-kind support for office space, computers, phones, mailing, supplies, etc.

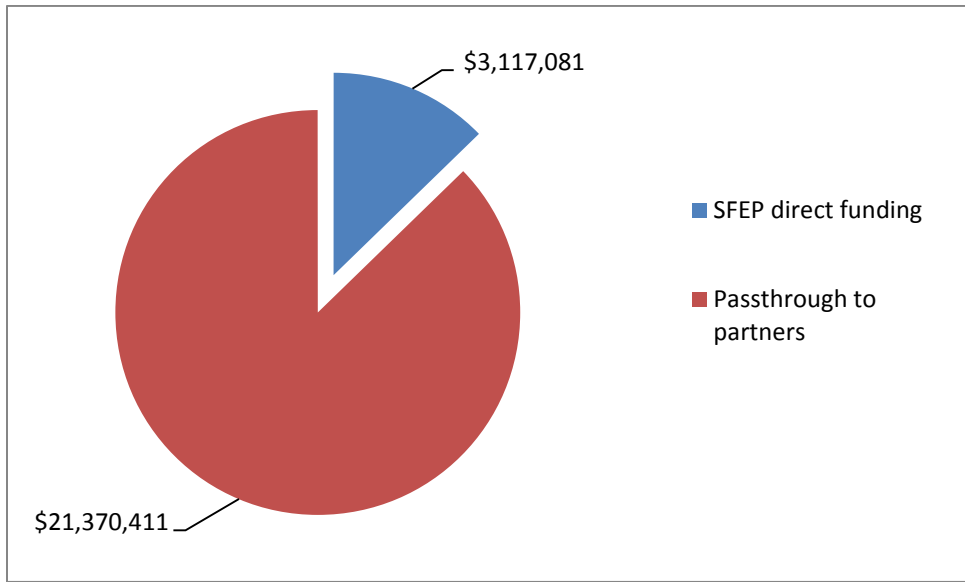


Figure 4: SFEP direct funding versus passthrough funds for partners, FY 17

We retain just over \$3 million for staff and other SFEP-led contract endeavors (ESTUARY News, conferences, etc.). The remaining \$21.3 million is passed through to partners on contracted projects, as described in the tables below.

Existing Projects

ONGOING AND NEW PROJECT INFORMATION

I. Continue Existing Funded Projects

The following projects are continuing from the previous fiscal year. Projects where SFEP plays a key lead role in are listed first.

#	Project Name	Description	SFEP Role	Partners	Project Cost/ Funding Source	CCMP Goals/ Objectives Met
1	Clean Vessel Act Program	Implement boater pollution prevention education program under the Clean Vessel Act: Increase recreational vessel pump-out usage and awareness among boating community with a goal of reducing sewage discharge into the San Francisco Bay and Sacramento Delta	Lead	CA Dept of Parks and Recreation, Division of Boating and Waterways, Marinas, Coast Guard, Coastal Commission, SF Water Board	\$280,000 California Department of Parks and Recreation, Division of Boating and Waterways CVA grant	Goals: 1, 3, 4 Objectives: b, i, j
2	Aquatic Invasive Species	Provide continued staff support to work with national and regional coordinating bodies and the key agencies implementing programs to reduce the impact of invasive species through prevention, early detection, rapid response, eradication, and control. These groups are working on developing new policies and programs to reduce the spread of aquatic invasive species, developing and reviewing regional and species management plans, prioritizing key activities for implementation and funding, and coordinating activities at the federal, state, and local levels.	Lead	USFWS, NOAA, CSLC, CDFW	\$20,000 EPA §320	Goal: 1 Objective: b

Existing Projects

#	Project Name	Description	SFEP Role	Partners	Project Cost/ Funding Source	CCMP Goals/ Objectives Met
3	Outreach on Resiliency and Green Infrastructure	Develop comprehensive written outreach products on resiliency and green infrastructure.	Lead		\$30,000 EPA (2100)	Goals: 2, 3, 4 Objectives: d, i, j
4	2016 CCMP	Complete the revised Comprehensive Conservation and Management Plan (CCMP), distribute final version via hard copy and an interactive website, and track and report on progress of actions	Lead	IC and various other entities	\$350,000 EPA §320 and State Water Resources Control Board (SRF)	All
5	State of the Estuary Conference	Plan and implement a 2017 State of the Estuary Conference	Lead		\$300,000 EPA §320 and donations and registration fees	Goal: 4 Objective: k
6.	Website, Social Media	Increase public outreach through keeping website up to date and implementing a social media strategy	Lead		\$11,500 EPA §320	Goal: 4 Objective: j
7.	Report to EPA on habitat restoration and fund leveraging	Prepare annual NEPORT reports to EPA.	Lead		\$5,000 EPA §320	Goals: 1, 4 Objectives: c, j
8.	State of the Estuary Report	Continue to promote the findings from the 2015 State of the Estuary Report through conferences, workshops, websites, publications, media, etc. and begin preparations for the 2021 update of the report.	Lead		\$5,000 EPA §320	Goals: 1, 4 Objectives: c, j

Existing Projects

#	Project Name	Description	SFEP Role	Partners	Project Cost/ Funding Source	CCMP Goals/ Objectives Met
9	Provide meeting support for the Implementation Committee	Plan and hold four meetings per year of the Implementation Committee.	Lead		\$10,000 EPA §320	Goal: 4 Objectives: j, k, l
10	Administrative Support	Provide staff training and equipment/supplies needed to successfully advance the work of SFEP.	Lead		\$25,000 EPA §320	All
11	Water Board Wetland Policies Analysis	This project will support the San Francisco Bay Regional Water Quality Control Board's evaluation of regulatory options associated with permitting multi-benefit projects designed to address sea level rise. The Project addresses a critical policy need for the Water Board to address climate change This work will help the state to better protect wetlands and water quality.	Lead (through contract position)	SF Bay Regional Water Quality Control Board	\$90,700 EPA Wetland Program Development Funds	Goals: 2, 4 Objectives: d, k, l
12	Restoring Adequate Freshwater Flows	Support studies and efforts to restore adequate flows in the Estuary and in the Bay tributary rivers and streams.	Project support	Friends of the Estuary, Bay Institute, NRDC, RWQCB	\$17,230 EPA §320	Goals: 3, 4 Objectives: h, j, k
13	Water Management	Support and advance efforts to address water delivery, use, recycling and reuse issues. Includes working with ABAG's Resiliency staff to include water issues in Plan Bay Area. Promote existing outreach activities education the public about recycled water	Participant, project support	ABAG, water suppliers, water districts, others	\$22,975 EPA §320	Goals: 3, 4 Objectives: g, I, j, k

Existing Projects

#	Project Name	Description	SFEP Role	Partners	Project Cost/ Funding Source	CCMP Goals/ Objectives Met
14	Estuary News	Increase public outreach through Estuary News publication	Funder, Staff Support		\$68,000 EPA §320, partner donations	Goal: 4 Objective: j
15	Bay Area Regional Collaborative – Cross Agency Working Group	Coordinate with other agency staff to advance climate resiliency through regional agency coordination.	Project Support, Participant	Coastal Conservancy, BCDC, MTC, ABAG	\$5,000 EPA §320	Goals: 2, 4 Objectives: e, j, l
16	Coastal Hazards Adaptation Resiliency Group	SFEP is a member of the Policy Subcommittee of the Coastal Hazards Adaptation Resiliency Group (CHARG)	Project Support, Participant	CHARG members – government, private, NGO	\$2,800 EPA §320	Goals: 2, 4 Objectives: d, e, k, l
17	Restoration Authority	Provide staff support to the Board of the Restoration Authority as it carries out its mission to find local funding for regional wetland restoration.	Staff Support	Coastal Conservancy	\$36,000 EPA §320	Goals: 1, 2, 4 Objectives: a, d, e, f, j, k

Existing Projects

#	Project Name	Description	SFEP Role	Partners	Project Cost/ Funding Source	CCMP Goals/ Objectives Met
18	Urban Greening Bay Area	This multi-pronged project will develop and further enhance watershed-based green infrastructure planning (GreenPlan-IT) and tracking tools to assist public agencies in meeting water quality and quantity targets. Partner agencies will integrate GreenPlan-IT outputs into appropriate planning documents and construct up to three projects based on cost-effective LID designs for standard intersections at select locations. A key output will be a report that maps out strategies for better positioning GI within planned transportation and GHG Reduction investment programs.	Project Manager, Project Coordination	SFEI, BASMAA, San Jose, San Mateo, ABAG, Sunnyvale, Oakland, Contra Costa County, Richmond, EPA	\$570,264 EPA – SF Bay Water Quality Improvement Fund	Goals: 2, 3 Objectives: b, e, f, i
19	Supplemental Environmental Projects	Manage water quality improvement implementation projects funded through the SF Bay Regional Water Quality Control Board fines.	Program Coordination, Projects Oversight,	RWCQB	\$34,160 SF Bay Regional Water Quality Control Board ACL actions	Goals: 1, 2, 3 Objectives: a, d, g, h, i
20	San Francisco Bay-Delta Science Conference	Support Planning and Execution of Bay-Delta Science Conference in 2016.	Staff Support	Delta Science Program and USGS	\$350,000 Delta Science Program, USGS, and registration fees	Goal: 4 Objective: k

Existing Projects

#	Project Name	Description	SFEP Role	Partners	Project Cost/ Funding Source	CCMP Goals/ Objectives Met
21	Flood Control 2.0	Develop a set of innovative approaches for bringing environmental benefits and cost-savings to flood protection infrastructure along the San Francisco Bay shoreline.	Project Manager, Project Coordination	SFEI, BCDC, JV, Marin County Flood Control, Contra Costa County Flood Control, San Francisquito JPA	\$1,552,059 EPA – SF Bay Water Quality Improvement Fund	Goals: 1, 2, 3 Objectives: a, e, f, i
22	Greener Pesticides for Cleaner Waterways Campaign	Develop and implement a coordinated communications and evaluation strategy focused on pesticide outreach and improving best practices for behavior change communication.	Project Manager, Project Coordination	BASMAA	\$250,000 EPA – SF Bay Water Quality Improvement Fund	Goals: 3, 4 Objectives: i, j
23	Suisun Marsh Monitoring	This project will: 1) Identify constraints, opportunities and recommendations for managed wetlands Best Management Practice (BMP) in Suisun Marsh that could improve water quality relative to Dissolved Oxygen (DO) and Methylmercury (MeHg), (2) build knowledge within the managed wetland landowner community, and (3) develop working relationships between all stakeholders to support attaining long-term Total Maximum Daily Load objectives. Expected environmental outcomes are reduced occurrences of low DO and high MeHg events in tidal sloughs.	Project Manager	Suisun RCD, SF Bay RWQCB, Delta Science Program, Delta Conservancy, Fairfield-Suisun Sanitary District	\$843,982 EPA – SF Bay Water Quality Improvement Fund	Goals: 1, 3 Objectives: c, i

Existing Projects

#	Project Name	Description	SFEP Role	Partners	Project Cost/ Funding Source	CCMP Goals/ Objectives Met
24	Mercury in the South San Francisco Bay: The Guadalupe Watershed	Assist the Santa Clara County Parks and Recreation Department to complete both the Senador Mine and Calcine Paved Roads mercury remediation projects. Begin the 100% design for Upper Jacques Gulch Remediation Project.	Project Manager, Project Coordination	Santa Clara County Parks and Recreation Department	\$2,493,484 EPA: \$1,292,500; State Water Board \$174,984; Santa Clara County \$1,026,000	Goals: 1, 3, 4 Objectives: a, b, i, k
25	Stonybrook Creek Bio-Engineered Bank Stabilization	The Alameda County Resource Conservation District (ACRCD) completed a habitat assessment of the entire length of Stonybrook Creek and used the results of the assessment to develop a watershed plan for project prioritization and selected projects to implement. ACRCD completed bank stabilization projects and one of the two planned fish passage barrier removal projects. These projects will result in habitat improvements to 8,976 linear feet of creek habitat.	Project Manager	Alameda County Resource Conservation District	\$147,750 EPA (2100)	Goal: 1 Objectives: a, b, c

Existing Projects

#	Project Name	Description	SFEP Role	Partners	Project Cost/ Funding Source	CCMP Goals/ Objectives Met
26	Regional Green Infrastructure Capacity Building Program/San Pablo Avenue Green Stormwater Spine Project	IRWMP Round 1 – This project includes the creation of innovative stormwater treatment projects along 12.5 miles of San Pablo Avenue in the cities of Albany, Berkeley, El Cerrito, Emeryville, Oakland, San Pablo and Richmond. Cumulatively, the seven sites will treat over 8 acres of impervious surface runoff. The San Francisco Estuary Institute will conduct water quality monitoring to quantify associated pollutant load reductions. Other outputs include regional outreach and creation of a model Green Streets Ordinance that municipalities can adapt and adopt to integrate LID practices into street/sidewalk improvements.	Local Project Sponsor, project manager	Cities of San Pablo, Richmond, Albany, Berkeley, Emeryville, Oakland, and El Cerrito; Caltrans	\$4.9M State Funds – Department of Water Resources; Natural Resources Agency, Urban Greening; Department of Transportation EPA Funds – SF Bay Water Quality Improvement Fund	Goals: 2, 3 Objectives: f, i
27	IRWMP Round 1 DAC Projects	<p>Suite of 7 projects under IRWMP Round 1 <i>Integrated Water Quality Improvement, Flood Management and Ecosystem Restoration in Bay Area Disadvantaged Communities</i></p> <p>1. <i>Stream Restoration with Schools in Disadvantaged Communities of the North Bay</i> –7,500 linear feet of stream channel restored through stream and wetland/upland transition zone corridor revegetation.</p>	Local Project Sponsor, project manager	Point Blue – Students and Teachers to Restore a Wetland	\$2,201,026 State Funds – Department of Water Resources \$264,977 State Funds – DWR, additional partner match	Goals: 1, 4 Objectives: a, j

Existing Projects

#	Project Name	Description	SFEP Role	Partners	Project Cost/ Funding Source	CCMP Goals/ Objectives Met
		<p>2. <i>Storm Water Improvements and Flood Reduction Strategies Pilot Project in Bay Point</i> – Assessment of stormwater infrastructure and flood hazards in Bay Point, community engagement with data collection.</p> <p>3. <i>Floodplain Mapping for the Bay Area with Disadvantaged Communities Focus</i> - Gather, compile and standardize existing shore features into a Geographic Information System (GIS) database.</p> <p>4. <i>Disadvantaged Communities Richmond Shoreline and San Pablo Flood Project</i> - Design guidance for North Richmond coastal creeks; and planning and design for a crossing at Wildcat Creek and restoration on 1,800 feet of Wildcat Creek.</p>		<p>The Watershed Project</p> <p>SFEI</p> <p>Urban Tilth</p>	<p>\$163,000 State Funds – DWR, additional partner match</p> <p>\$840,000 State Funds – DWR, additional partner match</p> <p>\$219,989 State Funds – DWR, additional partner match</p>	<p>Goal: 2 Objectives: e, f</p> <p>Goal: 2 Objectives: e, f</p> <p>Goals: 1, 3 Objectives: a, i</p>

Existing Projects

#	Project Name	Description	SFEP Role	Partners	Project Cost/ Funding Source	CCMP Goals/ Objectives Met
		<p>5. <i>Pescadero Integrated Flood Reduction and Habitat Enhancement Project</i> - Conceptual designs for a solution to the flooding problems in Pescadero and a juvenile salmonid monitoring program within the Pescadero Creek watershed.</p> <p>6. <i>Watershed Guidance and San Francisquito Watershed Restoration</i> - Technical and community planning and educational efforts for San Francisquito Creek Watershed and East Palo Alto, and development of regional curve plots for creek restoration design in three disadvantaged communities.</p> <p>7. <i>San Francisco Estuary Salmonid Monitoring Program</i> - Collect outmigrating salmonids and perform related studies in: Sonoma Creek, Corte Madera Creek and the Napa River. Results will be used to evaluate the status of salmonids and to formulate management and future monitoring recommendations.</p>		<p>San Mateo Resource Conservation District</p> <p>Committee for Green Foothills</p> <p>CEMAR</p>	<p>\$256,090 State Funds – DWR, additional partner match</p> <p>\$292,000 State Funds – DWR, additional partner match</p> <p>\$498,537 State Funds – DWR, additional partner match</p>	<p>Goals: 1, 3 Objectives: a, h</p> <p>Goals: 1, 3 Objectives: a, h</p> <p>Goals: 1, 3 Objectives: a, h</p>
28	IRWMP Round 2 Projects	Integrated Regional Water Management Project Round 2 Administration– ABAG’s Grant Administration oversees invoicing and reporting for all 19 projects in the grant.	Grantee and overall coordinator for 19 projects		\$750,000 State Funds – DWR	

Existing Projects

#	Project Name	Description	SFEP Role	Partners	Project Cost/ Funding Source	CCMP Goals/ Objectives Met
		<ol style="list-style-type: none"> <li data-bbox="562 342 1108 781">1. <i>San Francisco Bay Climate Change Pilot Projects Combining Ecosystem Adaptation, Flood Risk Management and Wastewater Effluent Polishing</i> – This project involves construction of a demonstration ecotone slope on an existing parcel owned by the Oro Loma Sanitary District. The pilot project will be studied to determine its efficacy and optimal design. The elements of the optimal design will then be built into a second phase of pilot projects at other sites in the Bay Area. <li data-bbox="562 792 1115 1190">2. <i>Bay Area Regional Conservation and Education Program</i> – This project will expand the implementation of existing water conservation practices in the Bay Area, resulting in reduced potable water use and improve the existing Bay Area regional water conservation initiative. A suite of program elements will promote high-efficiency technologies and best water conservation practices that improve indoor and outdoor water use efficiency. 		<p data-bbox="1346 342 1528 505">SFEP (Lead Partner), Oro Loma Sanitary District</p> <p data-bbox="1346 792 1528 992">Solano County Water Agency (Lead Partner) and Water Agencies</p>	<p data-bbox="1549 342 1738 505">\$2.1 M State Funds – DWR, additional partner match</p> <p data-bbox="1549 792 1738 959">\$2.7 M State Funds – DWR, additional partner match</p>	<p data-bbox="1776 342 1913 440">Goal: 2 Objective: d, e</p> <p data-bbox="1776 792 1913 889">Goal: 3 Objective: g</p>

Existing Projects

#	Project Name	Description	SFEP Role	Partners	Project Cost/ Funding Source	CCMP Goals/ Objectives Met
		<p>3. <i>East Bayshore Recycled Water Project Phase 2</i> – This project will ultimately provide up to 2.5 mgd (2,800 AFY) of tertiary treated recycled water to customers within the Cities of Alameda, Albany, Berkeley, Emeryville, and Oakland. In 2012, EBMUD completed a segment of the East Bayshore recycled water transmission pipeline. This next phase will extend the recycled water transmission pipeline by about 5,100 feet.</p> <p>4. <i>Lagunitas Creek Watershed Sediment Reduction and Management Project</i> – This sediment reduction project will improve water quality and streambed habitat for the benefit of coho salmon and steelhead trout populations in Lagunitas Creek; and improve fish passage. The project involves repair of three stream crossings along the Cross Marin Trail</p>		<p>East Bay Municipal Utilities District</p> <p>Marin Municipal Water District</p>	<p>\$1 M State Funds – DWR, additional partner match</p> <p>\$720,000 State Funds – DWR, additional partner match</p>	<p>Goal: 3 Objective: g</p> <p>Goal: 1 Objective: a</p>

Existing Projects

#	Project Name	Description	SFEP Role	Partners	Project Cost/ Funding Source	CCMP Goals/ Objectives Met
		<p>5. <i>Marin/Sonoma Conserving Our Watersheds: Agricultural BMP Projects</i> – This project will implement critical environmental Best Management Practices (BMPs) on agricultural lands in Marin and Sonoma counties. The BMP projects will focus on improving water quality, conserving water, and enhancing wildlife ecosystems on agricultural lands.</p> <p>6. <i>Napa Milliken Creek Flood Damage Reduction and Fish Passage Barrier Removal</i> – The Project involves three integrated elements along Milliken Creek: 1) removal of a dam and restoration of the stream, 2) construction of a flood bypass/weir, and 3) grading/landscape improvements. The project will prevent flooding of a neighborhood of over 50 homes.</p> <p>7. <i>North Bay Water Reuse Program’s Sonoma Valley CSD 5th Street East/McGill Road Recycled Water Project</i> – The project consists of two recycled water sub-projects located In Sonoma Valley. The total recycled water yield from the Project is approximately 200 acre-feet per year (AFY).</p>		<p>Marin Resource Conservation District</p> <p>County of Napa</p> <p>Sonoma Valley County Sanitation District</p>	<p>\$600,000 State Funds – DWR, additional partner match</p> <p>\$500,000 State Funds – DWR, additional partner match</p> <p>\$1.02 M State Funds – DWR, additional partner match</p>	<p>Goals: 1, 3 Objectives: a, g, i</p> <p>Goals: 1, 2 Objectives: a, d</p> <p>Goal: 3 Objective: g</p>

Existing Projects

#	Project Name	Description	SFEP Role	Partners	Project Cost/ Funding Source	CCMP Goals/ Objectives Met
		<p>15. <i>San Francisco International Airport Industrial Waste Treatment Plant and Reclaimed Water Facility</i> – This project will provide the necessary infrastructure needed to reuse 100% of treated effluent at the airport terminals for non-potable reuse, thus reducing imported water demand on the Hetch Hetchy water system. An existing recycled water facility will be upgraded to treat 1.0 MGD of high quality industrial, sanitary, and stormwater effluent.</p> <p>16. <i>San Jose Green Streets & Alleys Demonstration Projects</i> – This project will construct Low Impact Development (LID) improvements along a residential collector-type street and alley segments in a disadvantaged community to demonstrate a range of approaches for retrofitting existing urban streets with LID stormwater management features. These projects will add to a regional collection of demonstration LID retrofit projects.</p>		<p>City and County of San Francisco Airport Commission</p> <p>City of San Jose</p>	<p>\$750,000 State Funds – DWR, additional partner match</p> <p>\$2 M State Funds – DWR, additional partner match</p>	<p>Goal: 3 Objective: g</p> <p>Goal: 3 Objective: i</p>

Existing Projects

#	Project Name	Description	SFEP Role	Partners	Project Cost/ Funding Source	CCMP Goals/ Objectives Met
		<p>17. <i>San Pablo Rheem Creek Wetlands Restoration Project</i> – This project will create seasonal wetlands on a ten-acre parcel adjacent to Rheem Creek and Breuner Marsh, located in the City of Richmond. The project will also improve the quality of stormwater that ultimately flows to San Pablo Bay. In addition, the project will lower potential flood impacts from Rheem Creek in neighborhoods within the cities of San Pablo and Richmond.</p> <p>18. <i>St. Helena Upper York Creek Dam Removal and Ecosystem Restoration Project</i> – This project will remove the Upper York Creek Dam. The dam removal will provide access to an additional 1.7 miles of spawning and rearing habitat. The project will also restore approximately 2 acres of riparian corridor along York Creek.</p>		<p>Contra Costa Water District</p> <p>City of St. Helena</p>	<p>\$750,000 State Funds – DWR, additional partner match</p> <p>\$800,000 State Funds – DWR, additional partner match</p>	<p>Goals: 1, 2, 3 Objectives: a, d, e, i</p> <p>Goal: 1 Objective: a</p>

Existing Projects

#	Project Name	Description	SFEP Role	Partners	Project Cost/ Funding Source	CCMP Goals/ Objectives Met
		<p>19. <i>Students and Teachers Restoring a Watershed (STRAW) Project, North and East Bay Watersheds</i> – This project will implement a minimum of 20 habitat restoration projects in Bay Area watersheds with students and community members. Professionally designed and implemented habitat restoration projects integrated with an innovative and time-tested education program will provide water quality benefits, habitat improvement, and positive impacts on economic, social, and environmental sustainability.</p>		Point Blue	\$500,000 State Funds – DWR, additional partner match	Goals: 1, 4 Objectives: a, j
29	IRWMP Round 3 Projects	<p>Integrated Regional Water Management Project Round 2 Administration– ABAG’s Grant Administration oversees invoicing and reporting for all 10 projects in the grant.</p> <p>1. <i>Lower Cherry Aqueduct Emergency Rehabilitation Project</i> – This project will install pipes and repair sections of a dam and tunnel in the Upper Tuolumne River watershed. These improvements will allow the San Francisco Public Utilities Commission (SFPUC) to access up to 150,000 AF of potable supply from Cherry Reservoir and Lake Eleanor in the Upper Tuolumne River watershed.</p>	Grantee and overall coordinator for all 10 projects	San Francisco Public Utilities Commission	\$1.65 M State Funds – DWR \$3 M State Funds – DWR, additional partner match	Goal: 3 Objective: g

Existing Projects

#	Project Name	Description	SFEP Role	Partners	Project Cost/ Funding Source	CCMP Goals/ Objectives Met
		<p>2. <i>Zone 7 Water Supply Drought Preparedness Project</i> – The project will increase potable water supply and groundwater recharge by constructing a new production well and pipeline. Chain of Lakes Well No. 5 is projected to produce up to 2 million gallons per day (6.1 AFD or 2,240 AFY) and will improve management of the groundwater basin. The pipeline will transfer water between an impervious pond to a pervious pond to recharge up to 15 MGD (46 AFD).</p> <p>3. <i>Los Carneros Water District and Milliken-Sarco-Tulocay Recycled Water Pipelines</i> – The project extends NSD’s recycled water distribution system in Napa Valley by 15 miles west into the Los Carneros area and northeast into the MST area. The MST recycled water pipeline will supply 700 AFY for agricultural and landscape irrigation purposes, offsetting groundwater use. The LCWD recycled water pipeline will provide up to 1,250 AFY to supplement surface water demands and offset agricultural demands.</p>		<p>Alameda County Zone 7 Water Agency</p> <p>Napa Sanitation District</p>	<p>\$3 M State Funds – DWR, additional partner match</p> <p>\$4 M State Funds – DWR, additional partner match</p>	<p>Goal: 3 Objective: g</p> <p>Goal: 3 Objective: g</p>

Existing Projects

#	Project Name	Description	SFEP Role	Partners	Project Cost/ Funding Source	CCMP Goals/ Objectives Met
		<p><i>10. WaterSMART Irrigation with AMI/AMR –</i> The project will alleviate drought impacts in MMWD’s service area by permanently reducing commercial landscape sector potable water demand. The Project goal is to achieve a 25% reduction in average landscaping water use through the installation of SMART irrigation equipment and AMI/AMR technology. The Project will install advanced irrigation equipment at 800 sites throughout MMWD’s service area in Marin County.</p>		Marin Municipal Water District	\$975,000 State Funds – DWR, additional partner match	Goal: 3 Objective: g

New Projects

II. Commence New Projects

The following are funded projects that SFEP will commence within FY 17.

Project #	Project Name	Description/Outputs	SFEP Role	Partners	Project Cost/ Funding Source	CCMP Goals/ Objectives Met
30	Ocean Acidification Monitoring	Purchase and deploy monitoring equipment for bottom water pH and DO measurements, and convene a regional ocean acidification workshop to develop a plan for a coordinated OA monitoring network.	Project Manager	SF State, UC Davis, SFEI, NERR	\$70,000 EPA §320 through Ocean and Coastal Protection Division	Goals: 1, 3 Objectives: c, i
31	Regional transition zone mapping and community adaptation strategy pilot project	Develop a regional transition zone mapping methodology, and implement a pilot project to advance environmental justice principles with transition zone adaptation strategy.	Project Manager	SF Bay Joint Venture, SFEI, North Richmond Shoreline Open Space Alliance, Urban Tilth	\$75,000 EPA §320 through Climate Ready Estuaries Program	Goals: 1, 2 Objectives: a, b, d
32	Blue Carbon/Methane Monitoring Study	Assess methane fluxes regarding pond management of selected South Bay Salt Ponds	Project Manager	Coastal Conservancy	\$46,031 EPA §320	Goals: 1, 2, 3 Objectives: c, d, i
33	IRWMP Round 1	IRWMP Round 1 – SFEP’s Grant Administration will take over invoicing and reporting for remaining Round 1 projects from BACWA.	Coordinator for remaining 10 projects	EBMUD, BACWA	\$100,000 BACWA	Goal: 2 Objective: d, e

New Projects

34	IRWMP Round 4 Projects	<p>IRWMP Round 4 – SFEP’s Grant Administration will oversee invoicing and reporting for all of the projects in the grant.</p> <ol style="list-style-type: none"> 1. <i>Anderson Dam Seismic Retrofit Project</i> – This project will make improvements required for Anderson Dam and its appurtenances to withstand a maximum credible earthquake and probable maximum flood event. 2. <i>Marin 2020 Turf Replacement Project</i> – This project will remove up to 443,000 square feet of non-functional turfgrass from commercial, institutional, and industrial properties and replace it with environmentally beneficial landscapes. 3. <i>East Palo Alto Groundwater Supply Project</i> – This project includes development and use of groundwater as a new source of water supply for the City of East Palo Alto and its DACs. 4. <i>Coastal San Mateo County Drought Relief Phase II</i> – This project continues ongoing efforts with local communities and agricultural stakeholders to balance beneficial uses of water resources in San Mateo County. 5. <i>San Francisquito Creek Flood Protection and Ecosystem Restoration Project</i> – The project goals are to protect against concurrent 100-year riverine floods, 100-year high-tides, and sea-level rise while restoring 18 acres of tidal marsh. 	<p>Grantee and overall coordinator for 9 projects</p>	<p>Santa Clara Valley Water District</p> <p>Marin Municipal Water District</p> <p>City of East Palo Alto</p> <p>San Mateo County Resource Conservation District</p> <p>State Coastal Conservancy</p>	<p>\$836,411 State Funds, DWR</p> <p>\$4.09 M State Funds – DWR, additional partner match</p> <p>\$781,563 State Funds – DWR, additional partner match</p> <p>\$1,506,050 State Funds – DWR, additional partner match</p> <p>\$1.4 M State Funds – DWR, additional partner match</p> <p>\$1,044,351 State Funds – DWR, additional partner match</p>	<p>Goals: 2, 3 Objectives: e, g</p> <p>Goal: 3 Objectives: g, i</p> <p>Goal: 3 Objectives: g</p> <p>Goal: 3 Objectives: g</p> <p>Goals: 1, 2 Objectives: a, d, e</p>
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New Projects

		<p>6. <i>Mountain View Shoreline Portion of SBSPR Project</i> – This project in Mountain View includes 710 acres of tidal marsh and upland habitat restoration and critical flood risk management infrastructure for residences and businesses.</p>		State Coastal Conservancy	\$4,807,998 State Funds – DWR, additional partner match	Goals: 1, 2 Objectives: a, d, e
		<p>7. <i>Eden Landing Portion of SBSPR Project</i> – The Eden Landing project involves restoration of over 1,300 acres of tidal marsh, levee improvements to decrease flood risk, and new public access trails.</p>		State Coastal Conservancy	\$3,265,121 State Funds – DWR, additional partner match	Goals: 1, 2 Objectives: a, d, e
		<p>8. <i>Novato Creek Flood Protection and Habitat Enhancement Project</i> – The Novato Creek Flood Protection and Habitat Enhancement Project will provide flood protection for 870 acres of land and restore 30 acres of wetland habitat.</p>		State Coastal Conservancy	\$3,551,607 State Funds – DWR, additional partner match	Goals: 1, 2 Objectives: a, d, e

New Initiatives

III.Pursue New Initiatives

The following are new initiatives identified within the 2016 CCMP that SFEP and our partners are committed to pursuing within FY 2017, where SFEP will play a lead role in advancing the project or program. SFEP will seek partnerships and funding to advance these specific tasks under CCMP actions.

#	2016 CCMP Action	Task	CCMP Goals/ Objectives Met
New-1.	Action 14 – Demonstrate how natural habitats and nature-based shoreline infrastructure can provide increased resiliency	Task 14-1. Develop a primer on how bayshore projects can be designed and optimized to achieve multiple rather than single benefits. Challenge designers and planners to look beyond a primary objective and find opportunities to incorporate not only flood protection but also habitat enhancement and recreational access, among other objectives, in proposed projects.	Goals: 1, 2 Objectives: a, d, e, f
New-2.	Action 19 – Develop long-term drought plans	Task 19-1. Analyze which retail and wholesale water supply agencies around the Estuary have long-term water supply plans for five to 10 year drought.	Goals: 1, 3, 4 Objectives: a, g, l
New-3.	Action 21 – Reduce water use for landscaping around the Estuary	Task 21-1. Work with water supply agencies, municipalities, DWR, SWRCB, and others to develop a standardized approach to quantifying and reporting on water use for all new and existing landscaped areas. Task 21-2. Working with partners, develop permanent (i.e., non-drought) performance standards against which progress in reducing landscape water use region-wide will be measured.	Goals: 1, 3 Objectives: a, g
New-4.	Action 26 – Decrease raw sewage discharges into the Estuary	Task 26-1. Review sewer lateral repair ordinances currently in operation around the region, and target 30% of the uncovered jurisdictions for assistance in developing and passing a sewer ordinance modeled on existing regional programs.	Goals: 1, 3 Objectives: b, i
New-5.	Action 30 – Reduce trash input into the Estuary	Task 30-3. Work with Bay Area Pollution Prevention Group to identify new audiences for outreach messages about reducing non-flushable items to sanitary sewers.	Goals: 3, 4 Objectives: i, j

New Initiatives

New-6.	Action 31 – Foster support for resource protection and restoration by providing Estuary-oriented public access and recreational opportunities compatible with wildlife.	Task 31-3. Develop and distribute educational materials and maps to boaters and various partners that identify areas where shorebirds, waterfowl, and harbor seals forage, rest, and roost, and include information related to expected changes to habitats and wildlife from climate change.	Goals: 1, 4 Objectives: b, j
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