

## Implementation Committee

May 24, 2017  
9:30 am - 12:30 pm  
1515 Clay Street, Second Floor  
Room 10  
Oakland, CA

## MEETING AGENDA

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- |       |  |
|-------|--|
| 9:30  | <b>1. Welcome and Introductions</b><br><i>Thomas Mumley, Vice Chair</i>  |
| 9:40  | <b>2. Public Comment</b><br>Any member of the public may address the IC on any matter regarding implementation of the Estuary Blueprint. Speaker will be limited to three minutes.                 |
| 9:45  | <b>3. Approve 11/2/16 Meeting Summary (Action)</b><br>(Attachment 1)   |
| 9:50  | <b>4. Director's Report (Information)</b><br>(Attachment 2)  |
| 10:00 | <b>5. Estuary Blueprint Progress (Information)</b><br>(Attachment 3)<br><i>SFEP Director</i>   |
| 10:10 | <b>6. Bay Area Resilient By Design (Information)</b><br><i>Amanda Brown-Stevens, Managing Director</i>   |
| 10:45 | <b>Break</b>   |
| 11:00 | <b>7. Partnership Updates (Information)</b> <ul style="list-style-type: none"><li>• State of the Estuary Conference<br/><i>Karen McDowell</i></li><li>• Highway 37<br/><i>Pat Eklund</i></li></ul> |
| 11:20 | <b>8. IC Nominating Committee Report (Action)</b><br>(Attachment 4)<br><i>Director</i>   |
| 11:40 | <b>9. SFEP FFY 2017-18 Work Plan (Action)</b><br>(Attachment 5)<br><i>Director</i>   |
| 12:15 | <b>10. Concluding Business</b>   |
| 12:30 | <b>11. Adjourn</b>   |

San Francisco Estuary Partnership  
Implementation Committee Meeting  
Wednesday, March 1, 2017  
Elihu M. Harris Building  
Oakland California

### MEETING SUMMARY

#### 1. Welcome & Introductions

Amy Hutzel, Chair, called the meeting to order.

#### 2. Public Comments/Meeting Summary Approval

There were no public comments.

#### 3. Action: Approve 11/2/16 Meeting Summary

November 2, 2016 IC Meeting Summary was approved. Motion to Approve by Luisa Valiela and seconded by Gary Stern. No oppositions to approval.

#### 4. Director's Report

Caitlin provided brief comments on several items from the Director's Report attachment, including:

##### **The Restoration Authority**

The Restoration Advisory Committee was reformed with 34 out of 150 applicants selected. Several IC members are on the RA advisory committee, including Luisa Valiela as the appointed Chair. The first meeting was held on February 28.

Amy announced Restoration Authority project list update request. The list will help staff better understand the universe, status, and time frame/schedule of potential projects. List only vets eligibility of projects NOT preference for grant award. Caitlin will send the project list URL to IC members. Luisa recommended the list be formatted as a query-able spreadsheet rather than a Word doc. Pat will distribute to elected officials around the Bay, in case staffers have not elevated the list.

##### **ABAG/MTC Consolidation**

The draft Contract for Services was released, covering the responsibilities and missions of ABAG and the "Local Collaboration Programs" (which includes SFEP) and describes the services MTC will provide. SFEP scheduled to move to MetroCenter in late fall (when space is ready). MTC will cover the cost of move as well as the overhead rates of SFEP as part of contract for services. SFEP's permit assistance staff will stay at the Water Board office.

##### **2017 State of the Estuary Conference**

The 2017 State of Estuary Conference will be held at the Scottish Rite Temple on Lake Merritt on October 10-11. The conference planning process is just starting.

## 5. Estuary Blueprint Progress

Caitlin introduced the agenda item as a response to the November Strategic Planning Workshop and the IC's desire to have meetings focused on Blueprint progress. Staff intends to have this as an agenda item at every IC meeting, with accompanying success stories and/or roadblocks for the IC to discuss.

- a. *2017 Action Progress Report*: Heidi announced status of 2016 & 2017 task milestones and walked through public CCMP progress tracker webpage. Overall progress of Blueprint is good, with 5 out of 6 2016 tasks complete and progress on the majority of the 2017 tasks. Heidi solicited feedback from the IC on the format of the Action Progress Report. In general, the IC liked the format of the document, with some suggestions for improvement of the online tracker (links to completed reports if possible), and agreement on the parallel importance of having accompanying narrative updates. Heidi reminded the IC that the CCMP Newsletter, the SFEP website, and ESTUARY News magazine are all platforms for narrative updates.
- b. *Success Story: Flood Control 2.0 (Adrien & Scott Dusterhoff, SFEP, presenting)*. Adrien began with introduction of this recently completed 4 year project to integrate habitat preservation/restoration with flood control at creek mouths. Scott reviewed the project "toolbox" website features, [floodcontrol.sfei.org](http://floodcontrol.sfei.org), including interactive maps (historic & contemporary; current sediment dynamics), sediment dynamics database, synthesis report (mid-March release planned), recommended multi-benefit management measures and future work, and implementation project reports (Resilient Vision Plans for Novato, Walnut, San Francisco Creeks). Adrien reviewed additional toolbox contents, such as: regulatory analyses and guidance reports, economic analyses (cost assessment guidebook and cost-benefit spreadsheet model), SediMatch, and podcasts about each project component.

## 6. IC Nominating Committee Report

The ad hoc IC Nominating Committee met Feb 16<sup>th</sup> to discuss IC membership, growth/expansion, needed agency participation, and more active participation in CCMP by IC. The Nominating Committee is looking to increase participation by agencies/entities rather than individuals (need primary and alternative rep). Amy reviewed the committee memo and asked the IC for feedback memo, including potential new members. Several members provided suggestions, including agricultural, urban ag, EJ, Delta, and wastewater agencies. There was some discussion on the role of IC entities, including the ability to secure or elevate funding and/or policy needs. The IC also discussed how to retain members and assure meeting attendance. The Nominating Committee will pursue ideas from the IC and staff and a slate of new candidates will be presented at next meeting for IC approval.

## 7. SFEP FFY 2017-18 Draft Work Plan

Caitlin described work plan requirements and structure, and walked through the draft. SFEP's estimated budget for FY 17-18 is just over \$35,600,000, an historic high for SFEP. Our income is mostly state funding, with the majority coming from Integrated Regional Water Management (IRWM) projects. EPA 320 (NEP) funds continue to make up a small portion of our budget (about 2% of our overall funding) but they remain a critical piece of our funding portfolio, allowing us the flexibility to support staff, provide for organizational needs and to fund Estuary Blueprint tasks that do not otherwise fit in current funding opportunities.

Section III of the work plan lists unfunded Estuary Blueprint tasks with milestones due in FY 17-18, where SFEP plays a lead role in advancing the task. Based on the estimated budget, there is a small amount of available EPA NEP funding to help implement the Blueprint. Caitlin asked the IC for feedback on what of the listed unfunded projects is a priority for SFEP and should be advanced with the NEP funding.

Members discussed New Project #5 (primer for nature-based shoreline infrastructure), #6 (analysis of long-term drought plans), #8 (sewer lateral repair ordinance review), & #9 (communication plan and small grants program) as priorities. Caitlin will follow up the discussion with a survey to all IC members to continue to gather their input on priorities. Recommended additions to the New Projects List will come back as part of the final work plan for approval at next IC meeting.

**8. Concluding Business: Next meeting May 24<sup>th</sup>**

**9. Meeting adjourned at 12:30**

**Attendees:**

**IC Members**

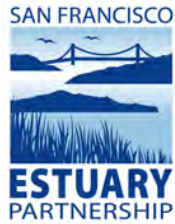
Amy Hutzler, SCC  
 Tom Mumley, SFBRWQCB  
 Pat Eklund, ABAG  
 Roman Barenstein, BPC  
 Kate Poole, NRDC  
 Luisa Valiela, US EPA Region 9  
 Warner Chabot, SFEI  
 Jane Lavelle, SFPUC  
 Jessica Law, DSC  
 Jessica Martini-Lamb, SCWA  
 John Klochack, USFWS  
 Gary Stern, NOAA Fisheries

**Staff**

Caitlin Sweeney  
 Josh Bradt  
 Heidi Nutters  
 Darcie Luce  
 Adrian Baudrimount  
 Karen McDowell  
 Rebecca Darr  
 Natasha Dunn

**Public**

Erika Yelenski, US EPA Region 9  
 Taylor Samuleson, State Coastal Conservancy  
 Scott Dusterhoff, San Francisco Estuary Institute



# Director's Report

May 17, 2017

## PROGRAM HIGHLIGHTS

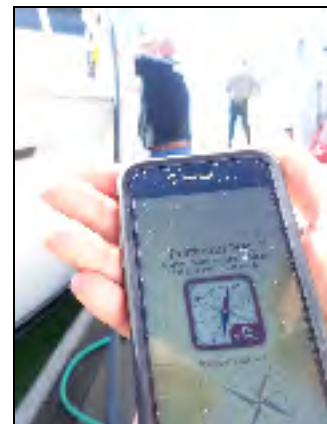
### 2017 State of the Estuary Conference



Planning is well underway for the 2017 State of the Estuary Conference. Make sure your calendars are marked for October 10-11, at the Oakland Scottish Rite Center. Save the Date postcards will be mailed and available soon!

### Pumpout Nav Released!

Earlier this month SFEP and our Santa Monica Bay NEP counterpart The Bay Foundation released Pumpout Nav, a free smartphone app meant to revolutionize how we provide boaters with sewage disposal information. Using a map interface, boaters can find the nearest pumpouts to their location, report non-operable pumpouts, and access information about pollution prevention and sewage management. The app is also designed to be used by Clean Vessel Act Program staff for monitoring pumpout stations as well as generating reports on monitoring results. The app is funded through a Clean Vessel Act Outreach and Education grant, from the CA Division of Boating and Waterways.



## Green Infrastructure Round Table



The Urban Greening Bay Area project, funded by the EPA's SF Bay Water Quality Improvement Fund, continues to bring partners together to promote widespread Green Streets implementation by developing and/or improving watershed-based planning tools, GI retrofit design guidance, LID tracking software, and funding streams.

On March 28, the Bay Area Stormwater Management Agencies Association (BASMAA) hosted the first of a series meetings of the Green Infrastructure Roundtable, comprised of key natural resources agency and transportation program funding managers. The purpose of this series is to share real-world obstacles and identify solutions facing the local agencies who seek grants to finance Green Street projects. The ultimate output will be a "Road Map" report that prioritizes programmatic and legislative actions needed to increase the availability of funding for multi-benefit street improvement projects. The second meeting will be on May 23, 2017. Meeting materials can be found on the [SFEF project webpage](#).

## Earth Day Event for North Richmond Community Vision Process

The overall goal of the North Richmond Community Vision Process is to develop a community-based Vision for the North Richmond shoreline with a particular focus on the upland transition zone, environmental justice and climate resiliency. SFEF staff Heidi Nutters and Josh Bradt are working closely with The Watershed Project, SFEI and Urban Tilth to complete a community charrette/input process, engage partners and conduct shoreline analysis. The final vision document will be released Fall 2017.



On April 22, The Watershed Project tabled at the Richmond Earth Day festival to collect input from North Richmond residents about the ways they use the shoreline, their vision for a future shoreline, and barriers to visiting the

shoreline. More outreach events are planned for the Spring and Summer, and the survey results will be incorporated into the vision document.

## Intern to Assist With Sewer Lateral Repair Project

The San Francisco Estuary Partnership submitted a project proposal to an internship program at the Middlebury Institute of International Studies and was selected to participate. Kelly Miller will be joining us in June for two months as he works to complete Estuary Blueprint tasks 26.1 and 26.2. This work will inventory all Bay Area jurisdictions for ordinances pertaining to sewer lateral repair, target 30% of jurisdictions without ordinances for engagement and implementation, and will write a white paper on possible funding sources for sewer lateral repairs for private landowners. The Partnership is excited to have Kelly work with us to implement the Estuary Blueprint!

## SF Bay Restoration Authority

The San Francisco Bay Restoration Authority's Governing Board met in Palo Alto on April 14th, and will meet again on June 9th in San Rafael. The Governing Board is currently focused on preparing to release their first Request for Proposals for Projects in the Fall. The Authority has begun to rotate their meetings around the entire region to engage local communities and to learn about restoration opportunities around the Bay. The April meeting included a shoreline tour at the Bayfront Bedwell Park in Menlo Park (see photos below) and the June meeting will include a field trip to the Hamilton Restoration Site.

The Advisory Committee to the Authority met for the second time on May 12th. They are also hosting a series of webinars, which are available to the public. The first webinar was focused on San Francisco Bay Water Quality and Wetlands, presented by Phil Trowbridge and Jeremy Lowe, San Francisco Estuary Institute. The second webinar, "Turning the Tide: Restoring the Wetlands of San Francisco Bay," was presented by Beth Huning, San Francisco Bay Joint Venture. The third webinar, "40+ Years of Wetland Restoration in SF Bay: Lessons Learned and Future Directions" will be presented on June 12th by Michelle Orr, ESA. Visit the Authority's website to get links to meeting agendas, meeting packets, and webinars ([www.sfbayrestore.org](http://www.sfbayrestore.org)).





*Shoreline tour at the Bayfront Bedwell Park in Menlo Park. Executive Officer Sam Schuchat, State Coastal Conservancy; and Governing Board Members: Aaron Peskin, Supervisor, City and County of San Francisco; Dave Pine, Supervisor, County of San Mateo; John Gioia, Supervisor, County of Contra Costa; Kate Sears, Supervisor, County of Marin; Susan Gorin, Supervisor, County of Sonoma*



*Shoreline tour at the Bayfront Bedwell Park in Menlo Park. Staff for the San Francisco Bay Restoration Authority: Anulika White, State Coastal Conservancy (SCC); Jessica Davenport, SCC; Karen McDowell, San Francisco Estuary Partnership; and Kelly Malinowski, SCC.*



## COMPLETED PROJECTS

### E2100 II - Building Partnerships for Resilient Watersheds

This seven-year EPA grant was completed in March, 2017, totaled \$3,613,704 and implemented nine projects. These were comprised of pollution control projects, restoration efforts, and support for water conservation in the North Bay, as well as scientific studies and monitoring. A list of the projects completed under this grant and the partner agencies are listed below.

1. Shoreline Change Pilot, Sediment Monitoring for RMP, and three Scientific Manuscripts - San Francisco Estuary Institute
2. Fremont Low Impact Development Tree Well Filter Pilot - City of Fremont
3. Fish Friendly Farming - California Land Stewardship Institute
4. North Richmond Pump Station Diversion Project - Contra Costa County
5. Living Shorelines Oyster Restoration Project - Coastal Conservancy
6. North Bay TMDL Project Coordinator - North Bay Watershed Association & Marin Municipal Water District
7. Sediment and Pathogen TMDL Implementation - Marin County
8. Sediment and Pathogen TMDL Implementation in the Napa River Watershed - Napa County Resource Conservation District
9. Sediment TMDL Implementation for Sonoma Creek - Sonoma Ecology Center
10. Sediment and Pathogen TMDL Implementation in Southern Sonoma County - Sonoma Resource Conservation District



*Boyle Park Creek before and after restoration*

## IRWM Projects

Four projects from Round 2 of the Integrated Regional Water Management Grants have been completed.

### 1. East Bay Shore Recycled Water Project Phase 1A (Emeryville)

The project provides approximately 40,000 Gallons per Day/50 Acre Feet per Year of recycled water to north Emeryville developments and businesses.



*Project Engineer An Bartlett and DWR's Mehdi Mizani discuss construction challenges.*

*Recycled Water Transmission Line suspended over Temescal Creek.*

### 2. Oakland Sausal Creek Restoration

The project daylights approximately 180 linear feet of the Sausal Creek and adds approximately 47,000 square feet of new habitat, erosion control and flood reduction.





*The natural stream meander is restored and banks replanted with native shrubs and trees.*



*Flooding for adjacent residences did not occur, despite heavy rainfalls in the winter of 2017.*

### **3. Richmond Breuner Marsh Restoration**

The project restores approximately 164 acres of tidal wetland habitat and adds 1.5 miles to the Bay Trail.



*A tidal slough at the restored Breuner Marsh*



*Concrete "boardwalk" extends the Bay Trail*

#### 4. San Pablo -Rheem Creek Wetland Restoration Project

The Project creates approximately 3.2 acres of seasonal wetlands adjacent to Rheem Creek mitigates flood impacts to upstream neighborhoods.



*The creation of islands within the wetlands to provide additional habitat.*



*Native perennials and wetland plants replaced invasive and exotic plants.*

## OUTREACH

### Estuary News



The March issue of Estuary News debuts a new guide to how to repair and renew the Delta and examines stresses on Delta species, especially pesticides. Two stories explore innovations in flood control and restoration, ranging from online tools to custom equipment. Others cover what scientists do to collect data during a big storm and what they think will happen to Central Valley waterbirds based on climate change models. A final story describes key steps in the creation of the Bay's new restoration authority. [Explore the March issue online.](#)



## PROGRAM MANAGEMENT

### National Estuary Program Spring Tech Transfer Meeting

Darcie Luce and I traveled to Washington, DC for the National Estuary Program Spring Tech Transfer meeting. The Tech Transfer meeting was well attended, with 27 of the 28 NEP's represented, as well as several EPA staff and other close partners. The meeting included a series of "lightning talks" on communications, CCMP updates, funding, regional partnerships, and State of the Estuary reports. I presented on our Estuary Blueprint tracking tools and processes, and Darcie presented on the Bay/Delta partnership challenges and opportunities.



*A full room at the NEP Tech Transfer Spring 2017 Meeting: "Strength through Adaptation"*

The National Estuary Program week in DC also included the Inaugural Reception of the new House Estuary Caucus as well as an Estuary Caucus House Staff Briefing, where Directors of five National Estuary Programs and one National Estuarine Research Reserve provided presentations on the importance of Estuaries and the work of the two programs. The Estuary Caucus was founded and is co-chaired by Rep. Bill Posey (R-FL), Rep. Rick Larsen (D-WA), and Rep. Suzanne Bonamici (D-OR).



*Rep Bill Posey addressing House staff at Estuary Caucus Briefing*

## NEP Funding

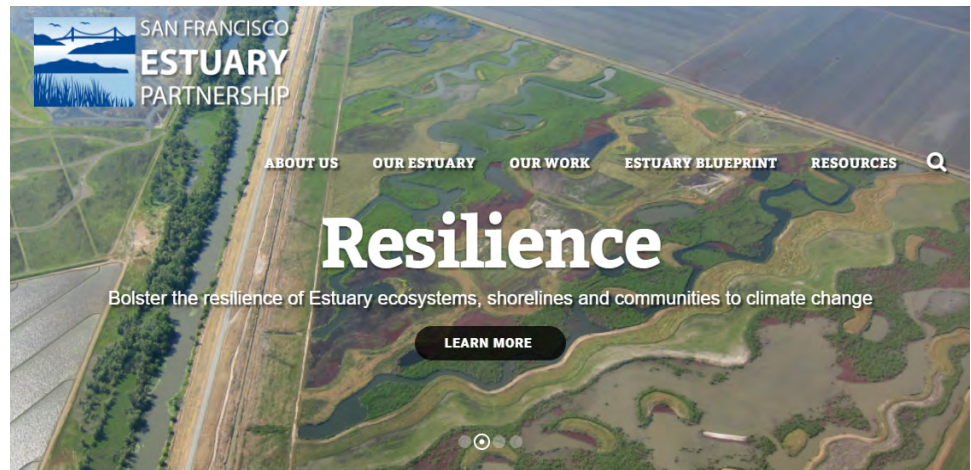
During the first week of May, an omnibus spending bill for FY 16-17 was approved by Congress and signed by the President. The omnibus included level funding for NEPs from FY 15-16, at \$600,000 per NEP. As SFEP operates on an allocation from EPA from the previous fiscal year, the omnibus means that we will be able to apply for (and expect to receive) \$600k from EPA for use during FY 17-18 (October 1, 2017 through September 30, 2018). Of note, not only did the omnibus include level funding for the NEP program, the bill included language specifically prohibiting the application of rescissions for cost savings to the National Estuary Program. Funding status for NEPs for FY 17-18 is unknown, though there is strong bipartisan support for the NEP program within the House and Senate.

Of additional interest to many of us, the omnibus also included funding for the San Francisco Bay Water Quality Improvement Fund, the competitive grant program through EPA Region 9.



## SFEP Website Revision

Building on the release of the 2016 Estuary Blueprint, we are busy overhauling our website to better integrate the Blueprint as our foundational planning



document. The website will also reflect a more modern look and will incorporate new tools for easier navigation on various types of devices. The new website will go live in early June.

## ABAG/MTC Consolidation Update

Both MTC and ABAG have approved the Contract for Services and MOU that guides the consolidation. Employment offer letters to individual ABAG staff are expected in late May, and the staff of ABAG are scheduled to transition to MTC on July 1st.

## IC Changes



Julie Pierce has stepped down from her position on the IC as the representative for the Association of Bay Area Governments. As the current President of ABAG, Julie is extremely involved in the ABAG/MTC consolidation and has assumed a high level of responsibility for facilitating a successful process with her ABAG and MTC colleagues. In addition to providing an important local government perspective, Julie's tenure on the IC has provided a critical voice for SFEP during the consolidation discussions at the ABAG Executive Board level. We thank Julie for her participation and contributions to the IC.

Julie has appointed Pat Eklund as her replacement. Pat is currently on the Novato City Council and serves on the ABAG Executive Board. She also serves on ABAG's Regional Planning Committee and Administrative Committee. Pat previously spent over 35 years with EPA, overseeing environmental protection programs including EPA's NPDES Section. Pat participated in the National Estuary Program with EPA when SFEP was first created.



You may have noticed that we haven't seen much of Marc Holmes over the past year. Marc has been slowly reducing his work schedule and his corresponding commitments to various boards, committees, etc. With some reluctance, Marc has now officially resigned from the Implementation Committee. Marc has been a member of the Implementation Committee representing the Bay Institute since the IC was first convened in 1994. He has been a key partner of SFEP over the past 23 years, from working on the initial CCMP in 1993 through the most recent 2016 Estuary Blueprint. He has helped steer the Partnership through many organizational permutations and guide our response to myriad emerging Estuary issues. Marc always brought to the table a deep understanding of the Estuary, both ecological and political, and was a calm, focused, and strategic problem-solver. I'm confident that I speak for the entire IC as well as all SFEP staff in stating our sincere and profound thank you to Marc for everything he has contributed to the IC and to the Partnership. He will be missed!

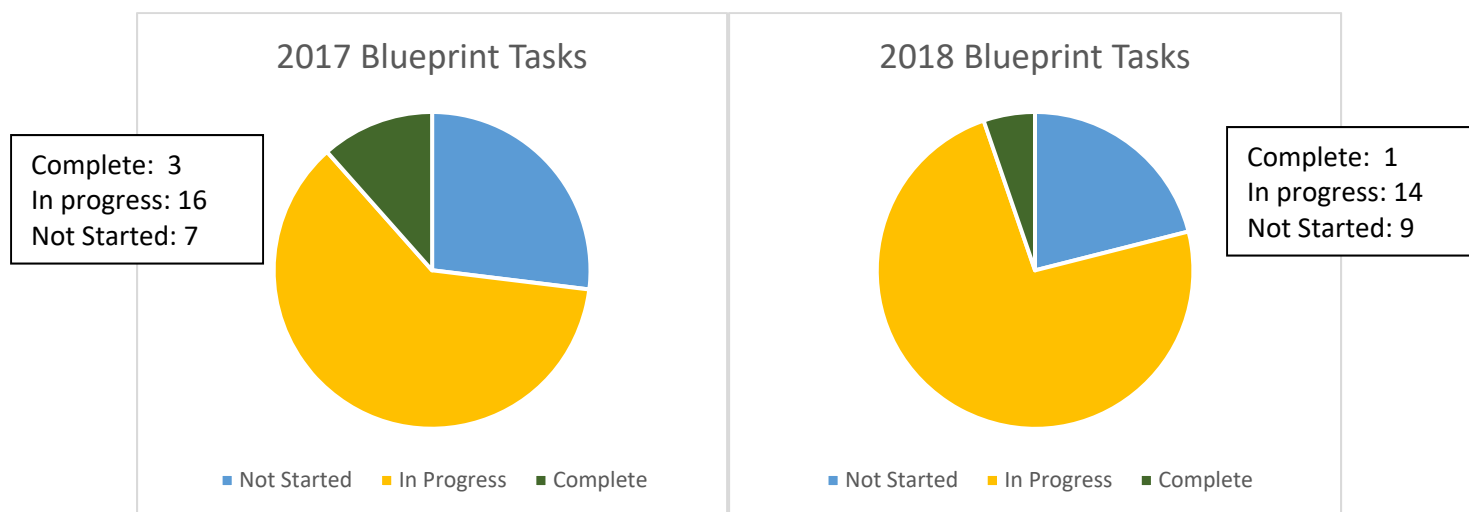
## Remaining 2017 IC Meeting Dates

August 23, 9:30 am - 12:30 pm

November 15, 9:30 am - 12:30 pm

## Estuary Blueprint 2017 and 2018 Task Status Updates

### May 24, 2017



### Individual 2017 and 2018 Task Status Updates

Action Name	Task	Task Action	Milestone	% Complete
<b>2017 TASKS</b>				
Develop and implement a comprehensive, watershed-scale approach to aquatic resource protection	1.1	Develop a written framework that explains the need for watershed-based aquatic resource protection; frames an approach to meet this need; and identifies and incorporates supporting technical tools and policies. The framework should also address relevant regulatory and governance issues	Complete framework.	15
Identify, protect, and create transition zones around the Estuary	4.1	Develop a regional steering committee and technical advisory committee to guide a bay-wide, science-based, inventory of existing and projected future transition zones. Base the inventory on current baylands restoration projects, land use, ownership, topography, elevation, and other criteria consistent with climate change adaptation science and regional, state, and federal agency initiatives.	Establish transition zone inventory steering and technical advisory committees.	100

Action Name	Task	Task Action	Milestone	% Complete
Protect, restore, and enhance seasonal wetlands	8.1	Re-establish the Interagency Vernal Pool Stewardship Initiative among state and federal agencies. Build relationships through the Initiative with land trusts and conservancies, landowners, Resource Conservation Districts, and municipalities to coordinate planning efforts.	Re-establish the Vernal Pool Stewardship Initiative.	0
Restore watershed connections to the Estuary to improve habitat, flood protection and water quality	12.2	Advance a multi-benefit project in the Yolo Bypass by establishing a common vision for improvements supported by local, state, and federal agencies.	Initiate construction of multiple fish passage improvement projects within the Yolo Bypass.	20
Manage sediment on a regional scale and advance beneficial reuse	13.1	Strengthen Long Term Management Strategy (LTMS) policies on the beneficial reuse of dredged material by expanding programs such as "SediMatch." Resolve logistical issues in matching sediment supply from dredging projects and upland construction sites with habitat restoration and shoreline adaptation projects.	Expand and improve SediMatch.	60
Manage sediment on a regional scale and advance beneficial reuse	13.2	Identify funding to pay for the additional costs of dredged materials disposal beyond "least-cost" options, including costs for offloaders to pump sediment for beneficial reuse projects on Estuary shorelines.	Identify and secure funding.	0
Manage sediment on a regional scale and advance beneficial reuse	13.4a	Advance understanding of how the creation of sandy beaches and their replenishment provides multiple benefits in terms of ecosystem health, shoreline erosion control, and sea level rise adaptation. Create (or enhance an existing) monitoring tool to identify potential sites for sandy beach creation or replenishment projects, choose pilot project sites, and track progress. Provide information about the benefits of sandy beaches to regulators and the restoration community.	Release the monitoring and tracking tool.	0
Demonstrate how natural habitats and nature-based	14.1	Develop a primer on how bayshore projects can be designed and optimized to achieve multiple	Develop primer and implement	10

Action Name	Task	Task Action	Milestone	% Complete
shoreline infrastructure can provide increased resiliency to changes in the Estuary environment.		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.	outreach strategy for primer.	
Advance natural resource protection while increasing resiliency of shoreline communities in the Bay Area	15.2	Integrate resiliency and natural resource protection into Plan Bay Area. Lay the groundwork for a more comprehensive regional resiliency effort.	Complete resiliency section in the 2017 update of Plan Bay Area.	75
Integrate natural resource protection into state and local government hazard mitigation, response, and recovery planning	16.1	Establish and implement innovative approaches for integrating natural resources into hazard mitigation, response and recovery planning in the Delta.	Complete the Delta Levee Investment Strategy.	25
Improve regulatory review, permitting, and monitoring processes for multi-benefit climate adaptation projects	17.3a	Analyze current San Francisco Bay Regional Water Quality Control Board regulations and policies governing the permitting of multi-benefit projects designed to address sea level rise. Develop findings, alternatives, and recommendations to support the Board's evaluation of baylands climate adaptation projects. Address concerns about balancing long-term wetlands protection, restoration, and enhancement against short terms losses in ecosystem function.	Complete report with recommendations.	50
Improve regulatory review, permitting, and monitoring processes for multi-benefit climate adaptation projects	17.3b	Analyze current San Francisco Bay Regional Water Quality Control Board regulations and policies governing the permitting of multi-benefit projects designed to address sea level rise. Develop findings, alternatives, and recommendations to support the Board's evaluation of baylands climate adaptation projects. Address concerns about balancing long-term wetlands protection, restoration, and enhancement against short terms losses in ecosystem function.	Revised policies as necessary.	0

Action Name	Task	Task Action	Milestone	% Complete
Improve regulatory review, permitting, and monitoring processes for multi-benefit climate adaptation projects	17.4	Bring major permitting and regulatory agencies together with project implementers and other key stakeholders in workshops to facilitate the creation of a more transparent and predictable system for the review and approval of multi-species and multi-benefit projects over the long-term. Design a model process and overall system that reduces time and conflicts while also outlining a roadmap for those entering into this process for the first time. By providing examples and case studies of successful multi-benefit projects, these workshops can share lessons learned and best practices.	Institute a once or twice yearly workshop.	5
Improve the timing, amount, and duration of freshwater flows critical to Estuary health	18.1	Work with partners to disseminate a report highlighting the contribution of freshwater flows to the health of the lower Estuary, San Francisco Bay.	Disseminate report.	100
Develop long-term drought plans	19.1	Fund an assessment that analyzes which retail and wholesale water supply agencies around the Estuary have long-term water supply plans for five to 10 year drought.	Complete assessment.	90
Expand the use of recycled water	22.1	Promote existing outreach activities educating the public about recycled water. Encourage the sharing of informational materials, resources, and program models among municipalities, wastewater agencies, and drinking water agencies.	Develop platform for sharing resources	5
Integrate water into the updated Plan Bay Area and other regional planning efforts	23.2	Incorporate water and San Francisco Bay related issues into the Plan Bay Area 2017 update. Consider ways to reduce per capita water use and optimize water recycling in the update, as well as issues such as landscape water use, water quality, stormwater management (low impact development and green infrastructure), and drought preparedness.	Complete an update of Plan Bay Area.	80
Manage stormwater with low impact	24.1	Develop outreach materials on lessons learned	Develop materials.	100



Action Name	Task	Task Action	Milestone	% Complete
development and green infrastructure		and the current state of LID benefits knowledge.		
Manage stormwater with low impact development and green infrastructure	24.2	Improve the San Francisco Estuary Institute's LID tracking tool "GreenPlan-IT." Enhance all components of the LID planning tool, "GreenPlan-IT."	Complete refined GreenPlan-IT.	80
Decrease raw sewage discharges into the Estuary	26.1	Review sewer lateral repair ordinances currently in operation around the region, and target 30 percent of the uncovered jurisdictions for assistance in developing and passing sewer ordinance modeled on existing ordinances such as those of the Berkeley municipal private sewer lateral (PSL) ordinance and the East Bay Municipal Utility District Regional PSL Ordinance.	Complete review and identify jurisdictions.	10
Decrease raw sewage discharges into the Estuary	26.4a	Develop a mobile app for boaters to report broken pumpouts, and for marinas to report pumpout use and operational status; pilot a mobile pumpout program for marinas and recreational boaters in the Oakland Estuary. Install 10 new dockside pumpout systems in marinas to increase the size and availability of the pumpout network.	Launch application and pilot program.	90
Decrease raw sewage discharges into the Estuary	26.5	Work with the Bay Area Pollution Prevention Group (BAPPG ) to identify new audiences for outreach messages about reducing non-flushable items to sanitary sewers to reduce sanitary sewer overflows	Identify new audiences.	0
Implement Total Maximum Daily Load projects in the Estuary, including projects to reduce mercury, methylmercury, pesticides and areas of low dissolved oxygen	27.1	Develop and implement a multi-media outreach campaign aimed at reducing household indoor and outdoor pesticide use.	Complete final report on outreach campaign.	75
Advance nutrient management in the Estuary	28.1	Secure additional funding to ensure continuation of long-term monitoring of nutrient-related parameters in the Bay through the San Francisco Bay Regional Water	Secure funding and continue monitoring.	0

Action Name	Task	Task Action	Milestone	% Complete
		Quality Control Board's Nutrient Management Strategy.		
Advance nutrient management in the Estuary	28.2	Undertake and fund water quality research to attain an improved quantitative understanding of San Francisco Bay's "dose response" to nutrients.	Secure funding and continue research.	0
Advance nutrient management in the Estuary	28.4	Develop a Nutrient Research Plan for the freshwater Sacramento-San Joaquin Delta through the Central Valley Regional Water Quality Control Board. Use the plan to determine whether nutrient objectives are needed to protect beneficial uses in upper Estuary.	Complete Delta Nutrient Research Plan.	70

#### 2018 TASKS

Develop and implement a comprehensive, watershed-scale approach to aquatic resource protection	1.2	Develop criteria to evaluate watersheds that could be used to pilot the Task 1-1 framework. Select a pilot watershed that drains into San Francisco Bay based on these criteria.	Complete criteria and select pilot Bay watershed	0
Establish a regional wetland and stream monitoring program	2.1	Develop and implement a Bay Area and Delta regional wetland monitoring plan that establishes separate, yet closely coordinated, steering committees for the upper and lower Estuary. The plan will identify regulatory and management monitoring priorities, as well as existing wetland, stream, or riparian monitoring efforts, to determine where there may be opportunities for partnerships and where there are gaps.	Hold initial meeting of the steering committees.	15
Establish a regional wetland and stream monitoring program	2.2	Determine how much funding is needed to support program management and administration, technology purchase and upgrades, hardware and software operations and maintenance, practitioner training and helpdesk support, and annual data synthesis and report; develop a business model to meet these funding needs .	Complete the business model.	0

Action Name	Task	Task Action	Milestone	% Complete
Establish a regional wetland and stream monitoring program	2.3	Complete the California Aquatic Resource Inventory (CARI) for the Delta; complete riparian inventories for the Delta and the Bay Area; upload the inventories into the California EcoAtlas information system	Complete the Delta CARI and the Delta and Bay Area riparian inventories.	0
Identify, protect, and create transition zones around the Estuary	4.2	Complete a regional inventory of transition zones based on the methodology developed by the technical advisory committee.	Complete Bay transition zone inventory.	25
Protect, restore, and enhance seasonal wetlands	8.3	Develop a white paper on best practices for grazing management to protect seasonal wetlands and enhance habitat quality.	Complete white paper.	0
Increase the efficacy of terrestrial predator management	10.1a	Develop a map showing priority areas in the San Francisco Estuary where actions can be taken to reduce feral cat predation on sensitive species, particularly Ridgway's Rail. This cat predator threat assessment and opportunities map will include: 1) locations of known or suspected feral cat colonies and feeding stations; 2) identification of entity(s) maintaining each cat colony (individual, group-sanctioned, or city and county authorized activity); 3) jurisdictions of landowners with the authority and willingness to enforce the law (map to include all landowners of marshes and adjacent areas); 4) information on city and county cat-feeding station laws; 5) presence of critical Ridgway's Rail populations; and 6) extent of housing and urban development, including landfills and transfer stations.	Produce feral cat threat assessment and opportunities map	0
Manage sediment on a regional scale and advance beneficial reuse	13.3	Identify funds and conduct research and monitoring to quantify all potential sediment sources to the Estuary. Determine sediment needs for maintaining current habitats under various sea level rise projections.	Complete study and share results.	15
Demonstrate how natural habitats and nature-based shoreline infrastructure can provide increased	14.2	Develop a system for describing the variety of shorelines around the Estuary based on shoreline features, ecosystem processes,	Develop shoreline typologies.	10

Action Name	Task	Task Action	Milestone	% Complete
resiliency to changes in the Estuary environment.		land use, and other relevant factors.		
Improve the timing, amount, and duration of freshwater flows critical to Estuary health	18.2	Assist the State Water Resources Control Board in updating the San Francisco Bay/Sacramento-San Joaquin River Delta Water Quality Control Plan (Bay Delta WQCP) by providing concise, scientifically sound data to the State Board during its deliberations and by keeping the public and local officials informed.	Complete update of the Bay-Delta WQCP with updated flow objectives.	20
Improve the timing, amount, and duration of freshwater flows critical to Estuary health	18.3	Work with relevant partners and agencies to more broadly incorporate integrated freshwater flow and habitat messages and information in public outreach materials or relevant programs.	Add messages to the materials of at least 3 partners.	10
Reduce water use for landscaping around the Estuary	21.1	Work with water supply agencies, municipalities, the California Department of Water Resources (DWR), the California State Water Resources Control Board, and others to develop a standardized approach to quantifying and reporting on water use for all new and existing landscaped areas. Use the latest available technology, as well as the methodology developed by DWR for the update 2015 Model Water Efficiency Landscape Ordinance (MWELo), and other methods as appropriate.	Ensure standardized reporting in place.	5
Reduce water use for landscaping around the Estuary	21.2	Working with the partners identified in Task 21-1, develop permanent (i.e., non-drought) performance standards against which progress in reducing landscape water use region-wide will be measured.	Ensure performance standards in place.	0
Expand the use of recycled water	22.2	Collaborate with the Bay Area Clean Water Agencies' Recycled Water Committee and others to: expand incorporation of recycled water in local and regional water resources planning processes; identify opportunities for the broader use of recycled water; overcome funding and planning gaps; and address regulatory and permitting constraints.	Hold three meetings.	5

Action Name	Task	Task Action	Milestone	% Complete
Manage stormwater with low impact development and green infrastructure	24.3	Partner with local jurisdictions to analyze LID and GI potential in select areas using Green Plan-IT and other applicable planning tools, and integrate findings into relevant agency planning mechanisms and policies for adoption and implementation.	Complete identification and analysis.	50
Manage stormwater with low impact development and green infrastructure	24.4	Develop and promote a comprehensive regional road map that identifies key policies, documents, legislation, agencies, and specific actions needed for integrating GI with future climate change, transportation, and other infrastructure investments within the region, including looking for opportunities to implement large regional projects.	Complete work plan.	20
Manage stormwater with low impact development and green infrastructure	24.5	Create and make available to municipalities and other interested parties design tools for LID retrofits, such as: cost-effective, low maintenance standard design details for LID retrofits of typical road configurations; unit cost estimates for both LID retrofit practices and non-LID standard street details; and "lessons learned" reports on previous grant- or local agency-funded LID retrofit projects.	Complete design tools and make available.	100
Manage stormwater with low impact development and green infrastructure	24.6	Create a GIS-based database to track completed LID and GI projects in the public and private realms; coordinate the database with Total Maximum Daily Load (TMDL) accounting systems developed by other local partners to identify and quantify the load reduction benefits of LID and GI.	Launch database.	60
Address emerging contaminants	25.2	Support the continuation and evaluate the effectiveness of the regional education program aimed at reducing or eliminating the use of triclosan and triclocarban. Evaluate tools, such as non-purchase agreements, ordinances, or inclusion as a priority product by the California Department of Toxic Substances Control, to reduce personal care products	Complete evaluations.	0

Action Name	Task	Task Action	Milestone	% Complete
		containing triclosan or triclocarban.		
Decrease raw sewage discharges into the Estuary	26.2	Produce and promote a white paper that describes existing and potential funding mechanisms for residents to help pay for private sewer line repair and replacement, such as grant programs and financing strategies	Complete white paper.	10
Implement Total Maximum Daily Load projects in the Estuary, including projects to reduce mercury, methylmercury, pesticides and areas of low dissolved oxygen	27.2	Evaluate Best Management Practices (BMPs) in Suisun Marsh to improve marsh water quality and address dissolved oxygen and methylmercury impairment. Characterize managed wetland responses to BMPs through water quality modeling.	Develop water quality model.	50
Advance nutrient management in the Estuary	28.3	Update the Nutrient Management Strategy for San Francisco Bay based on monitoring and modeling and load reduction study results from Tasks 28-1 and 28-2.	Update Nutrient Management Strategy.	0
Engage the scientific community in efforts to improve baseline monitoring of ocean acidification and hypoxia effects in the Estuary.	29.1	Convene scientists from around the San Francisco Estuary, including from leading marine laboratories and universities, to identify potential impacts of ocean acidification and hypoxia on beneficial uses of the state's waters. Build a conceptual model that can inform design and implementation of monitoring approach.	Convene workshop and complete a meeting summary with recommended actions.	75
Champion and implement the CCMP	32.3a	On a five-year cycle, provide current information about the health status of the Estuary through an updated State of the Estuary Report. Continue to gather data for current indicators, and develop new indicators that provide needed information regarding Estuary health and align with actions in the CCMP.	Develop a strategy for updating the 2015 State of the Estuary Report, including advancing new indicators.	0





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## MEMO

DATE: May 17, 2017

TO: Implementation Committee

FROM: IC Member Nominating Committee

**RE: Recommendation for New IC Members**

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Based on recommendations resulting from the November IC Strategic Planning retreat, an ad hoc IC Member Nominating Committee was formed to address IC membership.

As discussed at the March 1st meeting, the IC agreed on the following guiding principles for IC membership proposed by the Nominating Committee :

- IC Members should represent entities rather than individuals
- Entities should reflect a range of categories of Estuary Blueprint implementers, partners, and supporters
- Each IC entity should designate a primary and alternate member - alternates may be designated within a membership category (i.e., BAFPA, environmental non-profit, etc.)

The IC Member Nominating Committee refined the list of desired categories for new IC members and identified the highest priority categories for new members.

The Nominating Committee recommends the IC approve the addition of twelve new IC members, listed on the attached table. For your reference, a current list of existing IC members is also included in the attachment.

PROPOSED NEW IC MEMBERS			
Organization	Primary Representative	Alternate	Membership Category
NOAA Coastal Services Center	TBD	TBD	Federal Agency
Delta Conservancy	TBD	TBD	State Agency
Central Valley RWQCB	TBD	TBD	State Agency
Dept of Fish and Wildlife	TBD	TBD	State Agency
Resource Conservation Districts	TBD	TBD	State Agency, Working Lands
MTC	TBD	TBD	Regional Govt
BAAQMD	TBD	TBD	Regional Govt, Public Health, Env Justice/Equity
PG&E	TBD	TBD	Business/Industry
Bay Area Council	TBD	TBD	Business/Industry
East Bay Regional Park District	TBD	TBD	Parks/Open space
Bay Area Open Space Council	TBD	TBD	Parks/Open space
Environmental Justice for Water Coalition	TBD	TBD	Environmental Justice/Equity

EXISTING IC MEMBERS			
Organization	Primary Representative	Alternate	Category
NRCS	VACANT	VACANT	Federal Agency
USACE	Tom Kendall	Michele Palmer	Federal Agency
USFWS	John Klochak	VACANT	Federal Agency
NOAA Fisheries	Korie Schaeffer	Gary Stern	Federal Agency
US EPA	Luisa Valiela	Sam Ziegler	Federal Agency
SF Bay NERR	Mike Vasey	VACANT	Federal Agency, Science/Research
SFBJV	Beth Huning	Sandra Scoggin	Federal Agency, Enviro/Restoration
SCC	Amy Hutzel (CHAIR)	VACANT	State Agency
SF Bay RWQCB	Tom Mumley (VICE CHAIR)	VACANT	State Agency
DWR	John Andrew	VACANT	State Agency
BCDC	Steve Goldbeck	VACANT	State Agency
DSC	Jessica Law	Rainer Hoenicke	State Agency
Natural Resources Agency	Chris Potter	VACANT	State Agency
ABAG Executive Board	Pat Eklund	VACANT	Regional Govt
Local Government	Melody Tovar (Sunnyvale)	VACANT	Local Govt
Friends of the Estuary	Mike Monroe	VACANT	Enviro/Restoration
Citizens Committee to Complete the Refuge	Arthur Feinstein	VACANT	Enviro/Restoration
Audubon Society	Barbara Salzman (Marin)	VACANT	Enviro/Restoration
Save the Bay	David Lewis	VACANT	Enviro/Restoration

Natural Resources Defense Council	Kate Poole	VACANT	Enviro/Restoration
Bay Institute	VACANT	VACANT	Enviro/Restoration
San Francisco Estuary Institute	Warner Chabot	Josh Collins	Science/Research, Enviro/Restoration
SFPUC	Jane Lavelle	VACANT	Water Management
SMCWPPP	Matt Fabry	VACANT	Water Management
Zone 7	Carol Mahoney	VACANT	Water Management
SCWA	Jessica Martini-Lamb	VACANT	Water Management
BACWA	David Williams	VACANT	Water Management
Bay Planning Coalition	John Coleman	Betty Kwan	Business/Industry

**SAN FRANCISCO ESTUARY PARTNERSHIP  
FY 18 WORK PLAN AND BUDGET  
OCTOBER 1, 2017 - SEPTEMBER 30, 2018**



# FY 18 Work Plan and Budget

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October 1, 2017 – September 30, 2018

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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 Estuary Blueprint; 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 25 federal, state, and local grants and contracts that cover over 80 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 expected 2017/18 \$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. Because EPA’s budget has not been finalized yet and is part of the overall federal government continuing resolution, the total 2017/18 allocation is not yet known. This workplan has been based on previous years’ \$600,000 allocations, as per EPA guidance. 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 2017 to September 2018. Some of these projects were designed by and are directly managed by SFEP staff, while many 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 2017 may be adjusted when full funding is known to reflect the Partnership’s actual work during October 2017 to September 2018.

## WHAT'S NEW IN 2017/18

During the preparation of this 17/18 workplan, the staff of the Association of Bay Area Governments (ABAG), including the staff of the Estuary Partnership, were undergoing consolidation with the staff of the Metropolitan Transportation Commission (MTC). The consolidation of staff under the Executive Director of MTC is the first phase of longer term complete merge of the two agencies. Partnership staff will become MTC staff in mid-2017 and the Partnership will move its offices from the offices of the SF Bay Regional Water Quality Control Board in Oakland to the Regional MetroCenter building in San Francisco which currently houses MTC and ABAG (as well as other regional agencies). The 2-3 SFEP staff that are contracted by local governments and districts to provide permit assistance to the Regional Water Quality Control Board will remain working in the Regional Board's offices in Oakland. The staff consolidation and office move have implications for the Partnership's annual workplan and budget and for the close working relationship SFEP has developed with the Water Board facilitated by co-location, all of which will need careful consideration to maintain current productivity. SFEP staff will ensure that issues will be brought to the IC for deliberation as needed.

## 2016 ESTUARY BLUEPRINT

The workplan is structured to reflect the *2016 Comprehensive Conservation and Management Plan (Estuary Blueprint)*. The 2016 Estuary Blueprint is the result of almost 3 years of work and includes the input of over 100 partners. A unifying collaborative vision, the Estuary Blueprint 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 Estuary Blueprint 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 projects in the workplan all include identification of what Estuary Blueprint goals and objectives are advanced through the project. The last category of projects, Section III – Pursue Unfunded Estuary Blueprint Tasks, include unfunded tasks with milestones that fall within the timeframe of this workplan which SFEP has a lead role in advancing.

## ESTUARY BLUEPRINT 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 18 Budget Estimate

SFEP manages approximately **\$88.9 million** for **more than 80 projects** funded by grants and contracts. As most of those grants are multi-year, this fiscal year budget estimate represents the income and expenditure slice expected during the October 1 to September 30<sup>th</sup> federal fiscal year.

Our estimated **FY 2017-8 budget is \$35,631,897**. This budget is always an estimate, as expenditures for any given project typically do not come in at an even rate over the project term.

### Income

The current year's income represents a historic high for SFEP; \$35 million is the most funding we have ever managed in a year. The chart and table below show the growth in both our current-year and total funding over the last six fiscal years.

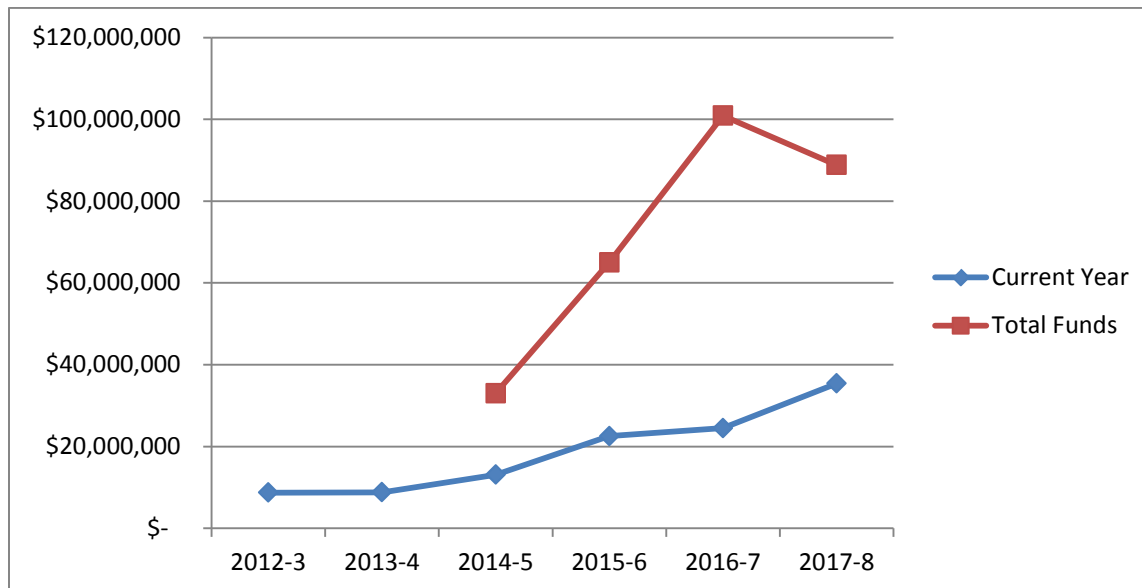


Figure 1: Growth in SFEP's Total and Current-Year Funding 2012-2017

	2012-3	2013-4	2014-5	2015-6	2016-7	2017-8
Current Year	\$ 8,730,573	\$ 8,800,000	\$ 13,090,281	\$ 22,546,304	\$ 24,487,492	\$35,631,897
Total Funds	n/a	n/a	\$ 33,000,000	\$ 65,000,000	\$ 100,900,000	\$88,854,578

Table 1: Data Points for Figure 1

Our multi-year total funding for currently active grants is lower than last year's high-water mark, due to the completion of most IRWM Round 1 and Estuary 2100 Phase 1 and 2 projects as well as the spend-down of some IRWM Round 2 and 3 projects.

Our income each year comes from a variety of federal, state, and local grants and contracts, and this year's mix is shown in Figure 2. Individual awards and funding sources are listed in table form in Attachment 1.

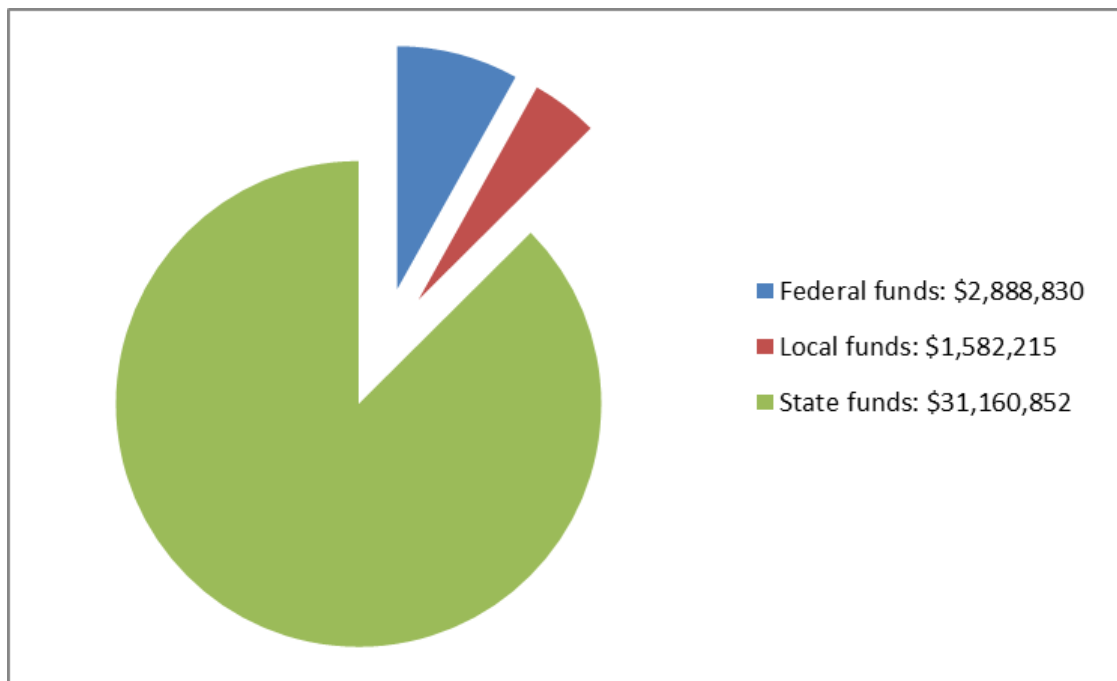


Figure 2: SFEP's Current-Year Funding Sources, by Federal, Local, and State funds

State funding outpaces other sources this year. State funds include grants from several agencies, but the bulk are from Integrated Regional Water Management (IRWM) projects funded by the California Department of Water Resources. IRWM projects from all rounds are active this year.

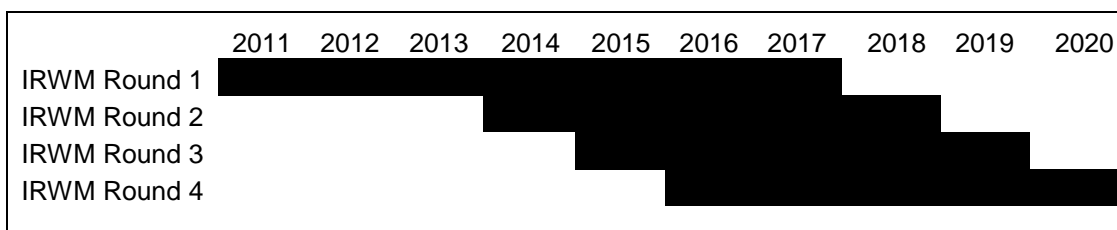


Figure 3: Active Periods for IRWM Grant Projects by Round

IRWM funds make up 85% of our total funding. For our projects under Round 1, we serve as a Local Project Sponsor and assist grantee BACWA with grant administration; for our 39 projects in Rounds 2, 3, and 4, we serve as grantee for all projects in the region.

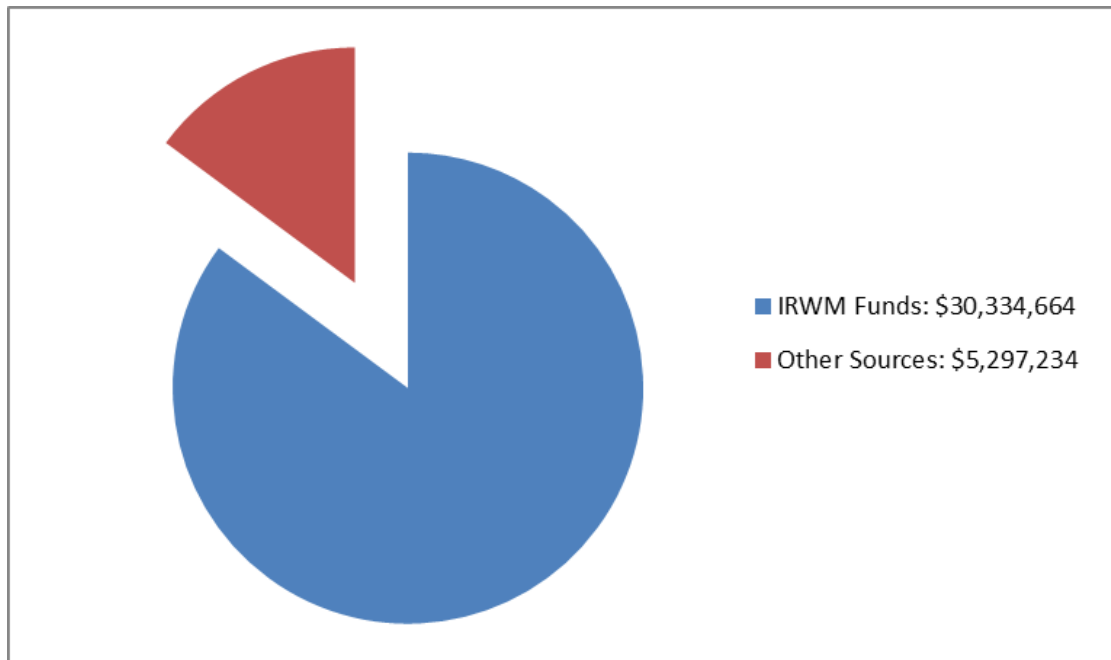


Figure 4: IRWM Portion of SFEP's Current Year Income

NEP funding continues to make up a small portion of our overall incoming funding mix. Our award level this year remains near its high levels at \$600,000; however, against the high background of other funds received, it makes up about 2% of this year's total funding. The base funds allow us the flexibility to support staff, provide for basic organizational needs such as training and equipment, and to fund CCMP implementation projects that do not otherwise fit current funding opportunities.

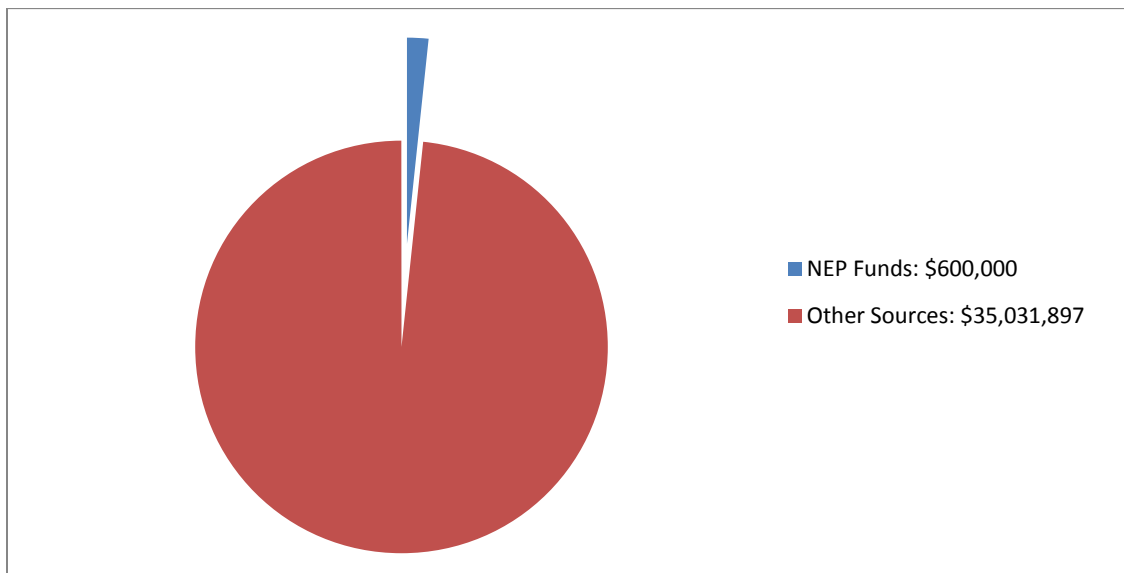


Figure 5: NEP Portion of SFEP's Current Year Income



## Expenditures

Our total expenditures are shown here grouped into costs that SFEP controls (including SFEP and ABAG staff costs, ABAG indirect overhead, and Other Direct Costs, or ODCs) versus Consultant costs (which includes “passthrough” to partners as well as contracted consultants).

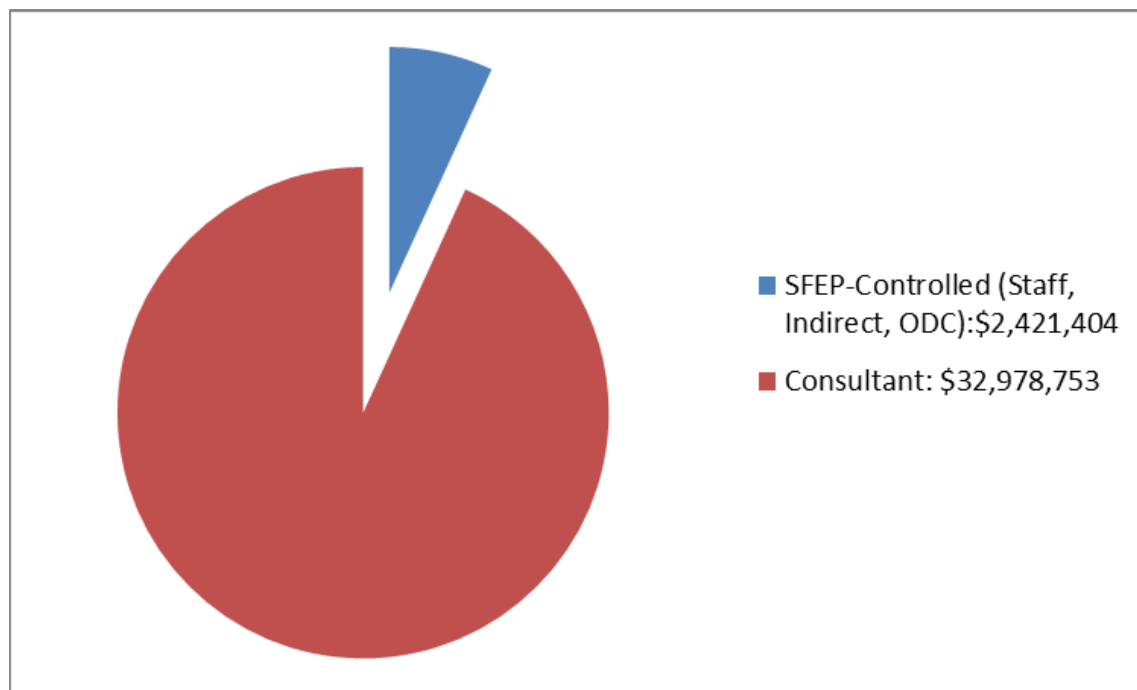


Figure 6: Current Year Expenditures by Category

Funds directed by SFEP include expenses for personnel, travel, equipment, supplies, and contractual obligations needed to run the organization. Details can be found in Attachment 1.

## 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	FY17-18 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	\$236,861 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

#	Project Name	Description	SFEP Role	Partners	FY17-18 Project Cost/ Funding Source	CCMP Goals/ Objectives Met
3	2016 CCMP	Track and report out on progress of CCMP actions, through the Estuary Blueprint website, the Estuary Blueprint newsletter, and through other venues such as Estuary News Magazine.	Lead	IC and various other entities	\$30,000 EPA §320	All
4	State of the Estuary Conference	Plan and implement an October 2017 State of the Estuary Conference	Lead		\$255,000 EPA §320, donations, registration fees	Goal: 4 Objective: k
5	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
6	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
7	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
8	Implementation Committee meetings	Plan and hold four meetings per year of the Implementation Committee. Costs include staff time and light refreshments.	Lead		\$10,000 EPA §320	Goal: 4 Objectives: j, k, l

#	Project Name	Description	SFEP Role	Partners	FY17-18 Project Cost/ Funding Source	CCMP Goals/ Objectives Met
9	Water Board Permit Assistance	Assist the San Francisco Bay Regional Water Quality Control Board in reviewing and commenting on environmental documents, reviewing applications, writing permits, and reviewing monitoring reports for counties and local districts.	Lead	SF Bay Regional Water Quality Control Board, Alameda County Flood Control, Santa Clara Valley Water District, Sonoma County Water Agency, Contra Costa County Flood Control	\$586,054 Contracts with partner agencies, as listed at left	
10	Administrative Support	Staff training and equipment/supplies needed to successfully advance the work of SFEP.	Lead		\$10,000 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.	Participant, project support	SF Bay Regional Water Quality Control Board	\$22,757 EPA Wetland Program Development Funds	
12	Restoring Adequate Freshwater Flows	Work with relevant partners and agencies to more broadly incorporate integrated freshwater flow and habitat messages in public outreach materials of relevant programs.	Lead	Friends of the Estuary, Bay Institute, RWQCB	\$15,000 EPA §320	Goals: 1,3, 4 Objectives: a, h, j, k

#	Project Name	Description	SFEP Role	Partners	FY17-18 Project Cost/ Funding Source	CCMP Goals/ Objectives Met
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	\$22,000 EPA §320	Goals: 3, 4 Objectives: g, i, j, k
14	Estuary News	Increase public outreach through Estuary News publication	Funder, Staff Support		\$88,000 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 allocate Measure AA parcel tax funds for regional wetland restoration.	Staff Support	Coastal Conservancy	\$87,973 Measure AA Funds	Goals: 1, 2, 4 Objectives: a, d, e, f, j, k

#	Project Name	Description	SFEP Role	Partners	FY17-18 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	\$863,676 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	\$23,835 SF Bay Regional Water Quality Control Board ACL actions	Goals: 1, 2, 3 Objectives: a, d, g, h, i
20	Healthy Watersheds, Resilient Baylands	Manage the design and implementation of a multi-benefit urban greening strategy with the input of a team of experts; strategy will then be applied to a suite of coordinated multi-benefit projects that will provide urban greening, wetland restoration, and water quality improvement benefits.	Project Manager, Project Coordination	SFEI, City of Sunnyvale, Grassroots Ecology, Canopy, SF Bay Joint Venture	\$504,470 EPA-SF Bay Water Quality Improvement Fund	Goals: 1,2 Objectives: c, d, e, f

#	Project Name	Description	SFEP Role	Partners	FY17-18 Project Cost/ Funding Source	CCMP Goals/ Objectives Met
21	San Francisco Bay-Delta Science Conference	Support Planning and Execution of Bay-Delta Science Conference in 2018.	Staff Support	Delta Science Program and USGS	\$340,000 Delta Science Program, USGS, and registration fees	Goal: 4 Objective: k
22	Suisun Marsh Monitoring	Identify constraints, opportunities and recommendations for managed wetlands Best Management Practice (BMP) in Suisun Marsh that could improve water quality relative to Dissolved Oxygen and Methylmercury.	Project Manager	Suisun RCD, SF Bay RWQCB, Delta Science Program, Delta Conservancy, Fairfield-Suisun Sanitary District	\$664,703 EPA – SF Bay Water Quality Improvement Fund	Goals: 1, 3 Objectives: c, i
23	Regional Green Infrastructure Capacity Building Program/San Pablo Avenue Green Stormwater Spine Project	IRWMP Round 1 –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	\$630,637 State Funds – Department of Water Resources; Natural Resources Agency, Urban Greening; Department of Transportation	Goals: 2, 3 Objectives: f, i



#	Project Name	Description	SFEP Role	Partners	FY17-18 Project Cost/ Funding Source	CCMP Goals/ Objectives Met
24	IRWMP Round 1 Management	IRWMP Round 1 –Invoicing and reporting for remaining Round 1 project	Project management	EBMUD, BACWA	\$66,667 BACWA	Goal: 2 Objective: d, e
25	IRWMP Round 2 Projects	<p>Integrated Regional Water Management Project Round 2 Administration– ABAG's Grant Administration oversees invoicing and reporting for all 14 projects in the grant.</p> <p>1. <i>San Francisco Bay Climate Change Pilot Projects Combining Ecosystem Adaptation, Flood Risk Management and Wastewater Effluent Polishing</i> – 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.</p>	Grantee and overall coordinator	SFEP (Lead Partner), Oro Loma Sanitary District	<p>\$190,379 State Funds – DWR</p> <p>\$33,610 State Funds – DWR</p>	Goal: 2 Objective: d, e

#	Project Name	Description	SFEP Role	Partners	FY17-18 Project Cost/ Funding Source	CCMP Goals/ Objectives Met
		<p>2. <i>Bay Area Regional Conservation and Education Program</i> – 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> <p>3. <i>Lagunitas Creek Watershed Sediment Reduction and Management Project</i> – 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>Solano County Water Agency (Lead Partner) and Water Agencies</p> <p>Marin Municipal Water District</p>	<p>\$549,968 State Funds – DWR</p> <p>\$162,344 State Funds – DWR</p>	<p>Goal: 3 Objective: g</p> <p>Goal: 1 Objective: a</p>

#	Project Name	Description	SFEP Role	Partners	FY17-18 Project Cost/ Funding Source	CCMP Goals/ Objectives Met
		<p>4. <i>Marin/Sonoma Conserving Our Watersheds: Agricultural BMP Projects</i> –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>5. <i>Napa Milliken Creek Flood Damage Reduction and Fish Passage Barrier Removal</i> – 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>6. <i>North Bay Water Reuse Program's Sonoma Valley CSD 5th Street East/McGill Road Recycled Water Project</i> –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>\$196,769 State Funds – DWR, additional partner match</p> <p>\$333,333 State Funds – DWR</p> <p>\$680,000 State Funds – DWR</p>	<p>Goals: 1, 3 Objectives: a, g, i</p> <p>Goals: 1, 2 Objectives: a, d</p> <p>Goal: 3 Objective: g</p>

#	Project Name	Description	SFEP Role	Partners	FY17-18 Project Cost/ Funding Source	CCMP Goals/ Objectives Met
		<p>7. <i>Pescadero Water Supply and Sustainability Project</i> – Construct a new municipal groundwater well and 140,000 gallon storage tank for the County Service Area 11 (CSA 11) Water System, which serves approximately 100 households within the Town of Pescadero.</p> <p>8. <i>Petaluma Flood Reduction, Water &amp; Habitat Quality, and Recreation Project for Capri Creek</i> – Improvements to an existing engineering drainage swale to restore a natural riparian corridor aesthetic. The goals of the project are to achieve flood reduction, habitat enhancement, groundwater recharge opportunities, expand recreational and educational amenities, and water quality improvements.</p>		<p>San Mateo County</p> <p>City of Petaluma</p>	<p>\$439,866 State Funds – DWR</p> <p>\$550,000 State Funds – DWR</p>	<p>Goal: 3 Objective: g</p> <p>Goals: 1, 2, 3 Objectives: a, d, g</p>

#	Project Name	Description	SFEP Role	Partners	FY17-18 Project Cost/ Funding Source	CCMP Goals/ Objectives Met
		<p>9. <i>Redwood City Bayfront Canal and Atherton Channel Flood Improvement and Habitat Restoration Project</i> – Route flood flows from the Bayfront Canal and Atherton Channel into managed ponds that are part of the South Bay Salt Pond Restoration Project. This will provide detention for these drainage areas, and redirected runoff will be used to enhance wetland habitat. This project will alleviate flooding concerns, improve runoff water quality, and support additional recreational trails.</p> <p>10. <i>Roseview Heights Infrastructure Upgrades for Water Supply and Quality Improvement</i> – Replace the existing, aging water system infrastructure before emergency repairs or emergency replacement become necessary. The project will improve water supply reliability, water quality, and fire suppression capability by replacing and upgrading water tanks and water mains and adding fire hydrants.</p>		<p>Redwood City</p> <p>Roseview Heights Municipal Water District</p>	<p>\$756,667 State Funds – DWR</p> <p>\$333,333 State Funds – DWR</p>	<p>Goals: 2, 3 Objectives: d, e, i</p> <p>Goal: 3 Objective: g</p>

#	Project Name	Description	SFEP Role	Partners	FY17-18 Project Cost/ Funding Source	CCMP Goals/ Objectives Met
		<p>11. <i>San Francisco International Airport Industrial Waste Treatment Plant and Reclaimed Water Facility</i> – 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>12. <i>San Jose Green Streets &amp; Alleys Demonstration Projects</i> – 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>\$500,000 State Funds – DWR</p> <p>\$1,284,912 State Funds – DWR</p>	<p>Goal: 3 Objective: g</p> <p>Goal: 3 Objective: i</p>

#	Project Name	Description	SFEP Role	Partners	FY17-18 Project Cost/ Funding Source	CCMP Goals/ Objectives Met
		<p>13. <i>St. Helena Upper York Creek Dam Removal and Ecosystem Restoration Project</i> – 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>14. <i>Students and Teachers Restoring a Watershed (STRAW) Project, North and East Bay Watersheds</i> – Implement a minimum of 20 habitat restoration projects in Bay Area watersheds with students and community members. Habitat restoration projects integrated with an education program will provide water quality benefits, habitat improvement, and positive impacts on economic, social, and environmental sustainability.</p>		<p>City of St. Helena</p> <p>Point Blue</p>	<p>\$533,333 State Funds – DWR</p> <p>\$17,319 State Funds – DWR</p>	<p>Goal: 1 Objective: a</p> <p>Goals: 1, 4 Objectives: a, j</p>
26	IRWMP Round 3 Projects	Integrated Regional Water Management Project Round 2 Administration– ABAG's Grant Administration oversees invoicing and reporting for all 6 projects in the grant.	Grantee and overall coordinator for 6 projects		\$153,878 State Funds – DWR	



#	Project Name	Description	SFEP Role	Partners	FY17-18 Project Cost/ Funding Source	CCMP Goals/ Objectives Met
		<ol style="list-style-type: none"> <li>1. <i>Lower Cherry Aqueduct Emergency Rehabilitation Project</i> – 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.</li> <li>2. <i>Sunnyvale Continuous Recycled Water Production Facilities and Wolfe Road Pipeline</i> – Increase recycled water production and distribution capacity to provide 1,680 AFY of additional recycled water to help maintain groundwater levels and contribute to the ongoing conjunctive management in the Santa Clara sub-basin. In addition, the Project will reduce nutrient loading to San Francisco Bay.</li> </ol>		<p>San Francisco Public Utilities Commission</p> <p>Santa Clara Valley Water District / City of Sunnyvale</p>	<p>\$1,591,566 State Funds – DWR</p> <p>\$2,181,818 State Funds – DWR</p>	<p>Goal: 3 Objective: g</p> <p>Goal: 3 Objectives: g, i</p>

#	Project Name	Description	SFEP Role	Partners	FY17-18 Project Cost/ Funding Source	CCMP Goals/ Objectives Met
		<p>3. <i>Drought Relief for South Coast San Mateo County</i> – Improve water supply and drought resiliency for domestic and agricultural water users in the two largest coastal watersheds in the county (Pescadero-Butano and San Gregorio watersheds). A suite of site-specific water use, infrastructure, and water management improvements will result in 20.1 AFY (6.55 MGY) of additional water storage capacity and 157 AFY (51 MGY) of reduced water demand.</p> <p>4. <i>Stinson Beach Water Supply &amp; Drought Preparedness Plan</i> – The plan includes four projects that will reduce water system losses; improve the District’s ability to identify, locate, and repair leaks in pipelines; improve drinking water supply and reliability; and benefit fish and wildlife.</p>		<p>San Mateo Resources Conservation District/ American Rivers</p> <p>Stinson Beach Water District</p>	<p>\$1,983,023 State Funds – DWR</p> <p>\$346,569 State Funds – DWR</p>	<p>Goal: 3 Objective: g</p> <p>Goal: 3 Objectives: g, i</p>

#	Project Name	Description	SFEP Role	Partners	FY17-18 Project Cost/ Funding Source	CCMP Goals/ Objectives Met
		<p>5. <i>Bay Area Regional Drought Relief and Water Conservation Project</i> –A suite of Project elements implemented by 12 agencies will promote high-efficiency technologies and water conservation practices that improve indoor and outdoor water use efficiency. The Project will save approximately 1,200 AFY (or 24,000 AF over 20 years).</p> <p>6. <i>WaterSMART Irrigation with AMI/AMR</i> – 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>		<p>Stopwaste.org and Water Agencies</p> <p>Marin Municipal Water District</p>	<p>\$2,991,808 State Funds – DWR</p> <p>\$490,195 State Funds – DWR</p>	<p>Goal: 3 Objective: g</p> <p>Goal: 3 Objective: g</p>
27	IRWMP Round 4 Projects	IRWMP Round 4 – SFEP's Grant Administration will oversee invoicing and reporting for all of the projects (7 at the time of this report) in the grant. The Anderson Dam Seismic Retrofit project withdrew from the grant program, and the funds are being reallocated to other projects.	Grantee and overall coordinator		\$247,565 State Funds – DWR	

#	Project Name	Description	SFEP Role	Partners	FY17-18 Project Cost/ Funding Source	CCMP Goals/ Objectives Met
		<p>1. <i>Marin 2020 Turf Replacement Project</i> – Remove up to 443,000 square feet of non-functional turfgrass from commercial, institutional, and industrial properties and replace it with environmentally beneficial landscapes.</p> <p>2. <i>East Palo Alto Groundwater Supply Project</i> – Development and use of groundwater as a new source of water supply for the City of East Palo Alto and its DACs.</p> <p>3. <i>Coastal San Mateo County Drought Relief Phase II</i> – Continues ongoing efforts with local communities and agricultural stakeholders to balance beneficial uses of water resources in San Mateo County.</p>		<p>Marin Municipal Water District</p> <p>City of East Palo Alto</p> <p>San Mateo County Resource Conservation District</p>	<p>\$223,304 State Funds – DWR</p> <p>\$430,300 State Funds – DWR</p> <p>\$400,000 State Funds – DWR</p>	<p>Goal: 3 Objectives: g, i</p> <p>Goal: 3 Objective: g</p> <p>Goal: 3 Objective: g</p>
		<p>4. <i>San Francisquito Creek Flood Protection and Ecosystem Restoration Project</i> – Protect against concurrent 100-year riverine floods, 100-year high-tides, and sea-level rise while restoring 18 acres of tidal marsh.</p> <p>5. <i>Mountain View Shoreline Portion of SBSPR Project</i> – Includes 710 acres of tidal marsh and upland habitat restoration and critical flood risk management infrastructure for residences and businesses.</p>		<p>State Coastal Conservancy</p> <p>State Coastal Conservancy</p>	<p>\$298,386 State Funds – DWR</p> <p>\$1,373,714 State Funds – DWR</p>	<p>Goals: 1,2 Objectives: a, d, e</p> <p>Goals: 1,2 Objectives: a, d, e</p>

#	Project Name	Description	SFEP Role	Partners	FY17-18 Project Cost/ Funding Source	CCMP Goals/ Objectives Met
		6. <i>Eden Landing Portion of SBSPR Project</i> – Restoration of over 1,300 acres of tidal marsh, levee improvements to decrease flood risk, and new public access trails.		State Coastal Conservancy	\$932,892 State Funds – DWR	Goals: 1,2 Objectives: a, d, e
		7. <i>Novato Creek Flood Protection and Habitat Enhancement Project</i> – Provide flood protection for 870 acres of land and restore 30 acres of wetland habitat.		State Coastal Conservancy	\$1,014,745 State Funds – DWR	Goals: 1,2 Objectives: a, d, e

## II. Commence New Funded Projects

The following are new funded projects that SFEP will commence within FY 18.

	Project Name	Description/Outputs	SFEP Role	Partners	Project Cost/ Funding Source	CCMP Goals/ Objectives Met
1	North Richmond Water Resources Resiliency Initiative	The Initiative will engage the disadvantaged community of North Richmond in understanding water resources challenges it faces, to seek feedback and involvement from the community to generate solutions to address these issues, and develop multi-benefit strategies and projects to implement these solutions. SFEPs role will focus on engaging communities to identify and assess climate adaptation multi benefit project along the shoreline.	Partner	CCC Watershed Program, Watershed Project, Urban Tilth, Neighborhood House of North Richmond	\$110,000 Prop 1 IRWM DAC grant	Goals 1, 2, 4 Objectives a, d, e, f, j
2	Sewer Lateral Repair Project	SFEP will supervise an intern provided through Center for the Blue Economy at the Middlebury Institute of International Studies who will review sewer lateral repair ordinances currently in operation around the region (Task 26-1), and produce a white paper that describes existing and potential funding mechanisms for residents to help pay for private sewer line repair and replacement. (Task 26-2)	Lead	TBD	\$1,000 EPA §320	Goals: 1, 3 Objectives: a, i
3	Transition Zone Mapping Project	Complete a regional inventory of transition zones. (Task 4-2)	Partner	SFBJV	\$40,000 EPA §320	Goals: 1,2 Objectives: a, c, d, e
4	Communications Plan	Develop communications plan for external outreach and education, including key messages, priority programs, and social media strategy. (Task 32-1)	Lead	TBD	\$10,000 EPA §320	Goal: 4 Objectives: j, k,

### III. Pursue Unfunded Estuary Blueprint Tasks

The following are new, as yet unfunded, initiatives identified within the 2016 Estuary Blueprint that SFEP and our partners are committed to pursuing within FY 2018, 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 Estuary Blueprint actions.

#	2016 CCMP Action	Task	Task Owner(s)/SFEP Role	CCMP Goals/ Objectives Met
New-1.	Action 1 – Develop and implement a comprehensive, watershed-based approach to aquatic resource protection	Task 1-1: Develop a written framework that explains the need for watershed-based aquatic resource protection; frames an approach to meet this need; and identifies and incorporates supporting technical tools and policies. Frame work should address relevant regulatory and governance issues.	Owner – SFEI/SFEP is partner in pursuing funding and partnerships to advance action	Goals: 1, 2, 3, 4 Objective: a, d, f, h, j, k, l
New-2.	Action 2 – Establish a regional wetland and stream monitoring program	Task 2-1 through 2-3: Convene a steering committee, complete and business model, and complete the California Aquatic Resource Inventory (CARI) for the Delta and the Delta and Bay Area regional riparian inventories.	Joint Venture, SFEI, SF Bay NERR, EPA, SF Bay RWQCB, SFEP	Goals 1,4 Objectives a, c, l
New-3.	Action 8 – Protect, restore, and enhance seasonal wetlands	Task 8-1: Re-establish the Interagency Vernal Pool Stewardship Initiative among state and federal agencies. Build on relationships through the Initiative with land trusts and conservancies, landowners, RCDs, and municipalities to coordinate planning efforts.	Owner - SFEP	Goal: 1 Objectives: a, b
New-4.	Action 13 – Manage sediment on a regional scale and advance beneficial reuse	Task 13-4: Advance understanding of how the creation of sandy beaches and their replenishment provides multiple benefits in terms of ecosystem health, shoreline erosion control, and sea level rise adaptation. Create (or enhance an existing) monitoring tool to identify potential sites for sandy beach creation or replenishment projects, choose pilot project sites, and track progress.	Owner – SF Bay Joint Venture (as tracker)/SFEP is partner in pursing funding and partnerships to advance action	Goals: 1, 2, 4 Objectives: a, c, d, e, f



New-5.	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.	14-1 Owners – SFEI and SFEP	Goals: 1, 2 Objectives: a, b, c, d, e, f
New-6.	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.	Owner - SFEP	Goals: 1, 3, 4 Objectives: a, g, l
New-7.	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.	Owner - SFEP	Goals: 1, 3 Objectives: a, g
New-8.	Action 26 – Decrease raw sewage discharges into the Estuary	Task 26-5. Work with the Bay Area Pollution Prevention Group (BAPPG) to identify new audiences for outreach messages aimed at reducing the flushing of non-flushable items into the sanitary sewer system, which can cause overflows.	Owner - SFEP	Goals: 1, 3 Objectives: a, i
New-9.	Action 32 – Champion and Implement the CCMP	Task 32-5. Secure funds to promote community-based watershed stewardship efforts through a small grants program.	Owner - SFEP	Goal: 4 Objectives: j, k

SFEP Work Plan Attachment 1								
FY 18 (10/1/17-9/30/18) Estimated Funding								
INCOME								
Type	Funder	Project	OWP #	Federal	State/Local	FFY 17-18	SFEP Portion	Managed for Partners
Conference	Fees, Sponsors, Contracts	State of the Estuary Conference	102065		\$ 255,000	\$ 255,000	\$ -	\$ 255,000
Conference	Registrations	Interagency Ecological Pgm workshop	102101		\$ 32,000	\$ 32,000	\$ -	\$ 32,000
Conference	Registrations	Delta Science Conference	102284		\$ 102,000	\$ 102,000	\$ -	\$ 102,000
Local	Donations	Estuary News Magazine	102142		\$ 60,000	\$ 60,000	\$ -	\$ 60,000
Federal	EPA	Calcine Paved Roads	102230	\$ 339,522		\$ 339,522	\$ 26,382	\$ 313,139
Federal	EPA	Urban Greening Bay Area	102263	\$ 863,676		\$ 863,676	\$ 135,195	\$ 728,481
Federal	EPA	Suisun Marsh Monitoring	102264	\$ 275,628		\$ 275,628	\$ 35,544	\$ 240,084
Federal	EPA	Wetland-Climate Change Reg Update	102280	\$ 11,372		\$ 11,372	\$ 11,372	\$ -
Federal	USGS	Science Conference Support	102283	\$ 67,500		\$ 67,500	\$ 34,998	\$ 32,502
Federal	EPA	Healthy Watersheds, Resil Baylands	102304	\$ 504,470		\$ 504,470	\$ 46,740	\$ 457,730
Federal	DOI via CDPR	Clean Vessel Act Outreach	102307	\$ 140,573		\$ 140,573	\$ 118,136	\$ 22,437
Federal	EPA	2017-8 NEP funds	102308	\$ 600,000		\$ 600,000	\$ 496,311	\$ 103,689
Local	SCVWD	Permit Writing Assistance	102036		\$ 140,768	\$ 140,768	\$ 140,768	\$ -
Local	Marin County/SMART	Permit Writing Assistance	102214		\$ 94,326	\$ 94,326	\$ 94,326	\$ -
Local	Sonoma County Water Agency	Permit Writing Assistance	102220		\$ 150,454	\$ 150,454	\$ 150,454	\$ -
Local	Alameda County	Permit Writing Assistance	102227		\$ 168,146	\$ 168,146	\$ 168,146	\$ -
Local	Contra Costa County	Permit Writing Assistance	102306		\$ 43,785	\$ 43,785	\$ 43,785	\$ -
Local	SF Bay Restoration Authority	Administration assistance	390007		\$ 555,687	\$ 555,687	\$ 163,875	\$ 391,812
State	Regional Water Board	ACL-SEP Oversight	102015		\$ 23,835	\$ 23,835	\$ 23,835	\$ -
State	Strategic Growth Council	Stormwater Spine El Cerrito Site 3	102208		\$ 226,662	\$ 226,662	\$ 11,642	\$ 215,019
State	Caltrans	Match for Stormwater Spine project	102215		\$ 300,000	\$ 300,000	\$ -	\$ 300,000
State	DWR	IRWM 1 SFEP GI projects	102204		\$ 103,975	\$ 103,975	\$ 63,531	\$ 40,445
State	DWR	IRWM 1 DAC Projects	102205		\$ 48,336	\$ 48,336	\$ 13,870	\$ 34,466
State	DWR	IRWM 1 Grant Administration	102305		\$ 66,667	\$ 66,667	\$ 66,667	\$ -
State	DWR	IRWM 2 Grant Administration	102231		\$ 190,379	\$ 190,379	\$ 92,295	\$ 98,084
State	DWR	IRWM 2 All Other Projects	102232-53		\$ 7,364,486	\$ 7,364,486	\$ 24,132	\$ 7,340,354
State	DWR	IRWM 3 Grant Administration	102257		\$ 682,266	\$ 682,266	\$ 92,340	\$ 589,927
State	DWR	IRWM 3 All Other Projects	102268-78		\$ 15,979,457	\$ 15,979,457	\$ -	\$ 15,979,457
State	DWR	IRWM 4 Grant Administration	102261		\$ 247,565	\$ 247,565	\$ 247,565	\$ -
State	DWR	IRWM 4 All Other Projects	102285-303		\$ 5,841,911	\$ 5,841,911	\$ -	\$ 5,841,911
State	Delta Stewardship Council	Delta Science Support	102281		\$ 138,531	\$ 138,531	\$ 106,573	\$ 31,958
State	SWRCB	Upper Jacques Gulch Design	102282		\$ 12,920	\$ 12,920	\$ 12,920	\$ -
				\$ 2,802,741	\$ 32,829,157	\$ 35,631,897	\$ 2,421,404	\$ 33,210,493
				8%	92%	Grand Total	7%	93%
EXPENDITURES								
			NEP Funds	All Other Projects	Total			
		Staff (SFEP, ABAG, Indirect)	\$448,701	\$ 1,854,193	\$2,302,895			
		Other Direct Costs		\$ 70,899	\$82,549			
		Travel	\$11,650					
		Temporary personnel services	\$10,000					
		Equipment	\$2,000					
		Printing	\$2,500					
		Printing - Estuary News	\$10,000					
		Postage	\$2,000					
		Conferences and seminars	\$5,000					
		Subscriptions (gmail, mailchimp, basec	\$3,660					
		Catering	\$800					
		Contractual		\$33,106,804	\$ 33,210,493			
		Web support	\$10,000					
		CCMP Implementation	\$65,689					
		Estuary News support	\$28,000					
		Total	\$600,000	\$35,031,897	\$35,631,897			