

**SEMI-ANNUAL PROGRESS REPORT
ASSOCIATION OF BAY AREA GOVERNMENTS
for
NEP- SAN FRANCISCO ESTUARY PARTNERSHIP
Cooperative Agreement # CE-00T47801-2**

Period 6: April 1 2013 to September 30, 2013

EPA Funds Expended	Prior Period	Period 6
		4/1/2013 9/30/2013
ABAG #	#102216	#102216
Grant Amount-Amendment 2	\$ 597,334.00	
Spent this period	\$ 204,701.72	\$249,608.81
Total Spent		\$454,310.53
% Spent	34%	76%
Grant Balance	\$ 392,632.28	\$143,023.47

*Progress Report is organized around the SFEP **Strategic Plan Goals and Objectives***

Notable SFEP Events/Major work efforts for this reporting period included:

- Launched Small Grants Program; received 23 proposals; awarded 11 grants.
- The Trash Capture Demonstration Project completed installation of 4,003 devices in 62 Bay area municipalities including 42 high-capacity devices.
- “Sedimatch,” the effort to match dredging and restoration projects was launched with a kick off meeting in June. (See Flood 2.0 below)
- Completed data collection and analysis for 77 creeks around the San Francisco Bay. Data collected includes both narrative data (restoration history, interested parties, overall condition, adjacent uses, ownership, etc.) and quantitative data (width at the mouth, width at the first barrier, length, Strahler number, etc.).
- SFEP created a regional curves page that houses all known regional design curves for the San Francisco Bay Area and includes other resources and instruction on how design curves should be used. <http://www.sfestuary.org/designcurve/>

Key goals/measures of success/results [from Strategic Plan]

Goal

Results so far

- Water quality improvements Installation of 4,003 trash capture devices

➤ Support Estuary resilience

Completed initial phase of Watershed Program

GOAL 1: FOCUS COMPREHENSIVE PLAN IMPLEMENTATION ON FOUR KEY OBJECTIVES

Objective 1- Promoting integrated watershed stewardship

IRWMP Implementation Grant (DWR-Prop 84)-Watershed Coordinator

- Worked with BAWN subcommittee to plan and execute all day Watershed Assessment Workshop, held in May, 2013
- Refined and distributed a Watershed Assessment Matrix (developed as a product of the Watershed Assessment Workshop) categorizing and identifying uses of various assessment methods
- Distributed periodic email announcements of interest to BAWN members
- Maintained and regularly updated new BAWN website
- Attended local watershed forum meetings throughout Bay Area
- Coordinated workplans, progress reports and invoices for IRWM Disadvantaged Community (DAC) projects
- Began planning second Watershed Assessment workshop, to be held in summer/fall of 2013
- Distributed periodic email announcements of interest to BAWN members
- Maintained and regularly updated BAWN website
- Attended local watershed forum meetings throughout Bay Area and made presentations on BAWN
- Coordinated workplans, progress reports and invoices for IRWM Disadvantaged Community (DAC) projects
- Continued planning second Watershed Assessment workshop, to be held in fall/winter of 2013
- Developed and distributed online survey to BAWN members to assess future priorities for BAWN (Survey responses due in October)
- Finalized project and drafted project completion report for review by BACWA and DWR

Pinole Creek Restoration (EPA: Green Infill)

City of Pinole staff:

- Continued to research and meet with stakeholders regarding Railroad Avenue bridge removal and utility relocation issues
- Explored funding opportunities for next restoration phase with California Coastal Conservancy and ABAG
- Researched Railroad Avenue bridge removal funding for engineering, demolition, and reconstruction
- Conducted post –construction vegetation monitoring and prepared project report
- Supplemental planting completed by RDG and Friends of Pinole Creek

Chelsea Wetlands Restoration (EPA: Green Infill) The Ducks Unlimited, Inc. (DU) has solicited and RFP for Rare and Endangered Plant Species and Phase II Soils Analysis. DU has hired GeoCon as its contractor to conduct the Phase II investigation. Initial Spring Surveys for the Rare and Endangered Plants had negative findings. One additional survey is scheduled.

The RFP for the permitting efforts is anticipated to be released to a list of consultants on Tuesday July 16th 2013.

Ducks Unlimited has accomplished the following milestones:

- Reviewed, negotiated and executed the ABAG Agreement.
- Selected and procured a consultant for the Phase II Soil Analysis and has received preliminary results.
- Developed engineering designs for the Chelsea Wetlands Project to 20 percent
- Contracted and subsequently completed the Special Status Plant Survey for the Chelsea Wetlands project to meet the spring survey window.

Bahia Marsh Restoration (EPA: Estuary 2100- Marin Audubon Society)

- SFEP has extended MAS's contract to allow for the use of unspent funds to purchase DriWater gelatin tubes to provide the thicket plants with moisture during the extended drought. This additional year will include an additional year of monitoring
- MAS hosted the EPA and SFEP for a site visit in August to show grant managers the progress that has been made on site, the addition of the new thickets, and the affect the drought has had on plant survival.
- A November volunteer event was held to remove invasive species from the property. Approximately 10 volunteers worked for 6 hours each.
- Continued DriWater replacement supplemented by hand watering to the extent possible by MAS volunteers

Yosemite Slough Wetland Restoration (EPA: Estuary 2100) The BYE Team:

- Youth interns and volunteers continued to care for natives in stock, and collect and process a variety of species of native plant seeds that will eventually be used at the restoration site. They weeded and cared for the community garden, greenhouse, compost systems, BYE garden plots and nursery.
- Youth interns co-lead two public volunteer days per month through the first Saturday Hands On Bay Area Volunteer and the CSPF Park Champions volunteer work days. They helped prepare and set up for the work days, demonstrated and conducted project activities at the work site, managed volunteers and facilitated event clean up.
- Established site-specific protocol according to QAPP guidelines and collected second set of data in June. Survey tool is being used with the BYE youth interns and school programs as part of teaching the restoration cycle. Photo monitoring is ongoing on a quarterly basis.
- Evaluated the Youth Education Program. Youth were asked by program staff to identify 15 native plants that they work with regularly at the nursery and restoration site as well as identify each plant's primary plant community and a fact about the species that they would share with a volunteer or youth peer. Numbered flags were placed through the nursery's demonstration garden and plant stock. Youth were given 20 minutes to fill out a test sheet without the benefit of notes or coaching from each other. Among the 4 participants, 3 scored 100% and the 4th, 84%. Youth were also asked to measure their own growth in learning and understanding about the principles of wetlands ecology and restoration techniques while in the BYE program. Youth reported a 70% increase in their comfort level in leading peers and adult volunteers in stewardship activities at the park; 55% increase in their knowledge about native wetland plants; 45% increase in their knowledge about wetland restoration techniques and; a 30% increase in an interest in pursuing a career or further education in environmental studies. In addition,

90% of the youth interns felt that the experience of conducting vegetation field monitoring increased their understanding of the wetlands restoration at Yosemite Slough and, 85% of the youth felt that the experience of conducting wildlife field based monitoring impacted their understanding of the need for park stewardship.

Yosemite Slough Wetland Restoration (EPA: Estuary 2100-2)

- The Foundation began discussions with the San Francisco Airport and the Regional Water Quality Control Board to reduce the project scope through the purchase of two wetlands acres from Ducks Unlimited (DU) as part of an in lieu of fee arrangement. (Fee would be applied to the DU project that will reconnect 300 acres of wetlands to tidal influence on Inner Bair Island). Potential savings to the Yosemite Slough project could be as much as \$4.5 million. The Airport and the RWQCB have tentatively agreed to the terms of this proposal pending final contract negotiations between CSPF and DU.
- Fundraising for the project has resumed
- Work on the 100% drawings will resume once the RWQCB has issued their final letter of authorization for the in lieu of fee transaction.

Stream and Wetlands Protection Policy (EPA/SWRCB/Aquatic Science Center)

April 1 to June 30, 2013:

- Administrative efforts were highlighted during this timeframe in preparation and support of the transfer of the project implementation role between employees. Supporting documents and reports were reviewed to develop a more complete understanding of the policy elements and to facilitate the development of Phase 2 of the State Water Board's Wetland Area Protection Policy (WAPP).
- Team meetings were conducted between the State Water Resources Control Board, the Environmental Protection Agency and Regional Water Quality Control Board staff on the development of the WAPP.
- The WAPP Wetland Definition and Delineation Staff Report and the Responses to Peer Review Comments document were finalized.
- Reviewed and revised the Draft Staff Report for the Water Quality Control Plan for the Regulation of Discharge of Dredged and Fill Material to Waters of the State (WAPP Phase I Staff Report).
- Reviewed and revised the WAPP Phase 2 scoping note that will be used as the foundation of Phase 2 of the policy.

July 1 to September 30, 2013:

- A work plan for the WAPP demonstration project was drafted. The demonstration project will be utilized to evaluate the permitting, implementation, and monitoring process as if the WAPP were implemented.
- Attended a California Rapid Assessment Method (CRAM) training related to the aquatic assessment protocols of the Wetland and Riparian Area Monitoring Program (WRAMP). Attended a workshop on Analytical Frameworks for Wetland and Riparian Buffers in Agricultural Settings since aquatic buffers may be a water quality control mechanism included in Phase 2 of the WAPP.
- Conducted research on riparian and wetland buffers in support of the development of Phase 2 of the WAPP.
- Created Geographic Information System (GIS) figures of the wetland resources within each Regional Board area to be included in the WAPP Phase 1 Staff Report.
- Revised the draft Regional Board Stream and Wetland Protection Policy Basin Plan Amendment.

Stanley Reach Revegetation Project (EPA: Estuary 2100)

- Completed development of Living Arroyos master agreement and workplan, which were approved by Zone 7 Water Agency on July 17 and UCC and the City of Livermore on July 22.
- In consultation with local experts made final adjustments to the planting plan and plant palette.
- Identified locations for acorn and willow stake collection, which will be revisited by volunteers and apprentices when appropriate.
- Worked with faculty from Las Positas College (LPC), the community college that serves the Livermore-Amador valley, to define the Apprenticeship in Ecological Restoration (the renamed internship program).
- Conducted outreach to LPC students in late August and early September, visiting classes and student organizations to raise awareness of the Apprenticeship Program and solicited applications. Selected three men and one woman, all LPC students, from a pool of applicants to be the first Apprentice cohort.
- Developed calendar for volunteer and Apprentice workdays.
- The construction phase of the project is complete, with four grade control structures (including the dragon's teeth) removed and one modified to allow fish passage. Water has returned to the site for the first time since May, and so have birds, including black phoebes, red-tailed and red-shouldered hawks, mallards, and others.

Watershed Scale Mapping – SFEI (EPA: Estuary 2100-2)

- SFEI continued working on the ITAS project by continuing its communication with Napa County, SFEP, and EPA regarding science and technology support for ITAS development.
- SFEI worked with Southern Sonoma RCD (SSRCD) regarding QAPP support. SSRCD is still determining the most appropriate monitoring approach for this project. Both CRAM and photo-monitoring have been discussed as potential approaches. Continued discussions are required and on-going.
- Stream names have been added to BAARI V1 and plans to release BAARI V2 have been developed. Development of BAARI stewardship is ongoing.

San Francisco Estuary Partnership Small and Micro Grants Program:

- On February 2013, SFEP launched its Small and Micro Grants Program. Funds would be available for non-profit organizations and local organization for projects implementing two of SFEP's CCMP goals: Build, promote and support community-based approaches to watershed protection, restoration and stewardship; and Increase resilience and adaptive capacity of watersheds with regard to impacts from climate change. The total amount available for 2013 is \$50,000 for both Small grants (up to \$5,000) and Micro-grants (up to \$1,000).
- On April 2013, SFEP announced through its website (<http://www.sfestuary.org/our-projects/watershed-management/small-grants-release/>) the selected projects. Recipients were selected based on several parameters including relevance to these goals, local support and capacity, sustainability, and originality. Grants have been awarded to the following projects:
 - **Citizen Science for the Stevens and Permanente Creek Watersheds**, Santa Clara County ([Acterra](#)) - Monthly water quality monitoring, macro invertebrate sampling, education events for children, students, and local residents.
 - **Permanente Creek Watershed Tour**, Santa Clara County ([Committee for Green Foothills](#)) – Watershed tour for community members, elected officials and

- environmental activists, highlighting watershed management, habitat restoration, current issues, climate change impacts and the historical ecology.
- **The Petaluma River Cleanup**, Sonoma County ([Friends of the Petaluma River](#)) – Petaluma River cleanup event with extensive community outreach and coordination with multiple partners.
 - **Supporting Volunteer-led Efforts at Sausal Creek Restoration Sites**, Alameda County ([Friends of Sausal Creek](#)) – Train and mentor volunteer leaders who will lead restoration work at several locations on Sausal Creek watershed.
 - **Increasing Community-Based Watershed Stewardship in the Gallinas Creek Watershed and Facilitating Collaboration among Marin County Watershed Groups** ([Gallinas Watershed Council](#)) – Sponsor family activities, hikes, bike tours, and creek cleanups, and coordination of work with other watershed groups.
 - **The Sea Party**, Marin County ([Greenwood School](#)) – Event organized by 7th and 8th grade students as part of Earth Day Marin Festival: Climate Change Solutions Day of Action.
 - **New Leaf Watershed Science Projects**, Contra Costa County ([Martinez Unified School District](#)) – Support ecoliteracy projects, monitoring, public engagement, and climate change education initiatives.
 - **Building a Community Rain Garden, Growing Community Stormwater Awareness**, Napa County ([Napa County Flood Control and Water Conservation District](#)) – Build community rain garden around an existing storm drain on the Vintage High School campus. The first demonstration garden in the Napa River watershed.
 - **The California Phenology Project**, Solano County ([Solano Land Trust](#)) – Measure climate change and its biological impact using Citizen Scientist volunteers and share data with the USA National Phenology Network.
 - **“That’s the Tuolumne in my Tap!”** San Francisco, San Mateo and Alameda County ([Tuolumne River Preservation Trust](#)) – Implement education program for grades 4 through 6 in areas where the majority of the drinking water comes from the Tuolumne River.
 - **Rheem Creek Restoration Project**, Contra Costa County ([The Watershed Project](#)) – Volunteer removal of invasive species and creek revegetation with native plants. Educate volunteers about stormwater pollution prevention and the relation of creek stewardship activities with climate change adaptation.

Objective 2: Support Estuary resilience in the face of climate change

Flood Control 2.0: Rebuilding Habitat and Shoreline Resilience through a New Generation of Flood Control Channel Design and Management (EPA: WQIF)

- Held quarterly Core Team Meeting
- Refined the project communication and outreach strategy and created a communications plan spreadsheet for use by all project partners
- Began process of developing conceptual models for the historical fluvial-tidal interface. Datasets have been compiled and key attributes and functions have been identified.
- Using USGS gage data for suspended sediment, began to develop coarse sediment rating curves (as fraction of total sediment load) for channels.
- Developed a data request survey for the members of the Bay Area Flood Protection Agencies Association to collect data on sediment supply and deposition.
- Drafted a methodology for undertaking a review and analysis of local, regional, state and federal policies and regulations. The review and analysis will include case studies of

the three implementation projects (San Francisquito, Novato and Lower Walnut Creek) as well as for Napa River and potentially Alameda Creek.

- Conducted a case study for Napa River through research, a site visit and interviews, and initiated the case study for San Francisquito.
- Completed most of the data collection and analysis for the historical ecology study of Novato Creek
- Prepared for a Science Forum Workshop for Novato Creek to be held in October.
- “Sedimatch,” the effort to match dredging and restoration projects was launched with a kick off meeting in June. In attendance were dredgers, port representatives, the Corps, and project managers. The meeting included some presentations as well as facilitated match making. One or two near term projects were likely matched and relationships were established for potential longer term opportunities.
- The Oakland Museum of California exhibit, Above and Below, opened. The exhibit includes various components related to FC 2.0.
- A series of podcasts have been planned and recording is underway for the first three.

Creek Mouth Assessment Project (Section 320 funds)

- Completed data collection and analysis for 77 creeks around the San Francisco Bay. Data collected includes both narrative data (restoration history, interested parties, overall condition, adjacent uses, ownership, etc.) and quantitative data (width at the mouth, width at the first barrier, length, Strahler number, etc.).
- Leveraging on the San Francisco Estuary Institute GIS resources to treat approximately 75% of the data.
- Sent a letter of intent for the National Oceanic and Atmospheric Administration Climate Program Office grant opportunity. We are searching for additional funding in order to launch the Phase 2 of the project. This funding would allow SFEP to build the online tool that would display the data and the results of the analysis for each creek mouth, on a local and a regional scale.

Integrated Regional Wetland Monitoring Analysis Project (DFG)

- WWR:
 - Task 1-Preparation of fish and invertebrates addendum to the study sites description report
 - Task 4-Prepare poster for State of the Estuary Conference, October 2013
 - Task 5-Preparation of Q2&Q3 progress report, coordination with team, compilation of inputs
 - Task 4-Preparation and review of synthesis manuscript (prepared under USGS lead)
- SFSU and GSU
 - Task 3-Manuscript submitted May 2013 to Wetlands, “Ecosystem-Scale Rates of Primary Production within Wetland Habitats of the Northern San Francisco Estuary”
- USGS
 - Task 4-Preparation of synthesis manuscript for submission to San Francisco Estuary and Watershed Science, “Tidal wetlands revisited: An update on the importance of tidal marshes to native fishes of the San Francisco Estuary”

Estuary 2100 Technical and Scientific for Project Monitoring - SFEI (EPA: Estuary 2100)

- Continued assisting ACRC's effort to generate a QAPP for their work in Stonybrook Creek
- Collected and compiled year three of the monitoring data and completed analysis of years two and three. A draft report was sent to the SFPUC for review

Corte Madera Creek Wetland Adaptation Project (EPA: Estuary 2100)

- The final project report was reviewed and approved by the EPA and SFEP

Stream Channel Design Curves (EPA: Estuary 2100)

- SFEP has created a regional curves page that houses all known regional design curves for the San Francisco Bay Area and includes other resources and instruction on how design curves should be used.

<http://www.sfestuary.org/designcurve/>

Stonybrook Creek (EPA: Estuary 2100)

- Completed project selection. The following project plan has been established:
 1. A retrofit at the first full barrier, County culvert (MP 8.75) including baffling the existing culvert and re-grading the channel upstream of the crossing into a step pool channel that is similar in geomorphology to the adjacent channel
 2. A full bridge replacement at the second full barrier, County bridge crossing (MP 8.60) and will include a pre-fabricated arch crossing with a step-pool channel through the crossing that is geomorphically similar to the adjacent channel
 3. Implementation is planned for summer 2014
- 50% design submittals and the updated cost estimate were received on July 26, 2013. Comments were submitted to the design team and they are working on addressing them as part of the 70% design submittal. Comments were received from the Alameda County Flood Control and Water Conservation District, Alameda County Public Works, the Natural Resources Conservation Service, and Zone 7 Water Agency.
- Continued coordination with SFEI regarding proposed timeframe for completing QAPP
- Compiled and evaluated all of the existing information on Stonybrook Creek and worked to fill in the data gaps by completing a full habitat assessment and final barrier assessment of the watershed.
- Continued to monitor stream gages that have been installed to monitor flows in Stonybrook Creek to begin to provide information on the amount of water present in the creek
- Additional assessment is being conducted to evaluate the potential for native amphibians such as California red-legged frogs in the creek
- Began outreach and discussions with the neighboring private landowners that own portions of the creek that work will occur within
- Continued work with permitting agencies to secure needed permits.

San Francisco Bay Living Shorelines (EPA: Estuary 2100-2)

- The State Coastal Conservancy (SCC) continued to conduct several types of post-project monitoring activities, including:
 - Physical (sediment), water quality (temperature, salinity, pH, dissolved oxygen, chlorophyll a), avian surveys, benthic and epibenthic invertebrates, fish surveys via trapping, oyster and eelgrass recruitment, growth, density, and survival. In addition, acoustic receivers were retrieved at the San Rafael site in April 2013 to gather data on any tagged fish (as part of the state acoustic fish consortium project)

that have visited the restoration site; and fish seining was initiated at the San Rafael site.

- Data collected from September 2012 to September 2013 was summarized by the SCC in a monitoring report.
- Preliminary results: more than two million native oysters have settled at the San Rafael site, birds, fish, and invertebrates have increased, and our wave model shows that the reefs are reducing wave action and accumulating sediment
- SCC presented this work to the Sierra Club, SF Bay Joint Venture Conservation Delivery Committee, and to the EPA (webinar series on climate change adaptation planning)

Objective 3: Promote green infrastructure, reduce pollution from stormwater runoff

IRWMP Implementation Grant (DWR-Prop 84)-Regional Green Infrastructure

- Project Monitoring Plan submitted to and approved by DWR
- Design team prepared 30% Design level plan sets for all sites. SFEP staff transmitted designs and draft preliminary design report to all partner cities on May 17, 2013.
- Soils Investigations at all sites completed. Reports sent to all partner cities on June 14, 2013. No Class 1 hazardous materials discovered.
- CEQA Categorical Exemption determinations documentation and EIF submitted to and approved by DWR
- Selected Bay-Friendly Rater service provider – Gates and Associates
- Convened Technical Advisory Group for input and guidance on designs, development of Construction Management RFQ, draft Model Green Streets Ordinance, and community meeting strategies.
- SFEP staff presented on Green Infrastructure and Spine Project at Landscape Design & Architecture ProSeminar Series at UC Davis on May 31, 2013.
- On August 22, 2013, SFEP staff presented an overview of the San Pablo Ave Stormwater Spine Project and detailed information of the Richmond project site at a community meeting held on-site.
- SFEP hosted a kick-off meeting of the Bay Friendly Rating process with the Project Design Team and Bay Friendly Rating consultants from Gates & Associates on August 29, 2013.
- Design Team prepared 60% Design Packages for all sites except San Pablo and El Cerrito. SFEP staff transmitted design packages to city partners on September 3, 2013, with comments due back by September 27, 2013.
- Design Team submitted site analyses documents and preliminary Bay Friendly Scoring tables for each site for transmittal to the Gates & Associates Rating Team on September 13, 2013.
- SFEP staff developed the Construction Manager Request for Qualifications during the quarter. The RFQ was completed on September 30, 2013 and released on October 1, 2013.
- SFEP staff made presentation at the Fall 2013 CASQA Conference in September 2013. The presentation topic was “San Francisco Bay Area IRWMP- Funded Stormwater Projects”.

Senador Mine Remediation (EPA: Estuary 2100)

- 60% design plans were completed in April and reviewed by the Regional Water Quality Control Board and SFEP. Direction was given to URS (the county’s contractor) to provide more detail.

- 90% design plans were submitted by SCC's contractor (URS) to Santa Clara County Parks and Recreation Department, SFEP and the Regional Water Quality Control Board's 401 permitting staff and were rejected by all parties. The county led the revision effort and convened a meeting with all parties. 90% design plans will be resubmitted to address concerns.

Hicks Flat Mercury Remediation (SWRCB 319h)

Implementing partner, Midpeninsula Regional Open Space District (MROSD) oversaw completion of bid documents, and assembled and released (June 3, 2013). Public bid notification was completed and outreach extended to the Small Business Administration and Minority Business Development Agency. Coordination occurred with the project engineer in developing the bid package, and through onsite work in preparation for the pre-bid tour and during the pre-bid tour. Prospective bidders were solicited and additional interest was generated through the bid notifications. A pre-bid tour was held on June 19, 2013 with 11 prospective contractors. Contractor's questions following the pre-bid tour were responded to through a prepared addendum. Bid opening and contractor selection occurred in July 2013. Engineering Remediation Resources Group, Inc. a WBE firm was awarded the remedial grading contract by the MROSD Board of Directors on July 24, 2013. Contracting and other pre-construction coordination and administration occurred in August and early September 2013. Remedial grading implementation and completion occurred in September 2013. Installation of erosion control measures, hydroseeding of the project area, and restoration plantings were all completed by the end of September. Restoration plantings are actively being maintained and final project report is in progress.

San Francisco Regional Water Board TMDL Support

SFEP staff continued to provide contract management and financial support for this project including processing invoices from the subcontractor, Adam Fleenor, who is contracted to characterize overwintering habitat for juvenile coho salmon (*Oncorhynchus kisutch*) in Lagunitas Creek (Marin County, CA), using remote sensing (LiDAR) data to identify and classify geomorphic features along the mainstem of Lagunitas Creek and San Geronimo Creek based on topographic attributes to assist development of the Lagunitas Creek TMDL.

Implementing the Fine Sediment TMDL in the Napa River Watershed (Fish Friendly Farming) (EPA: Estuary 2100-2)

- CLSI created maps, conducted site visits, and drafted and reviewed farm plan documents for 40 sites in Napa County
- Farm plans were finalized for 25 sites for certification and certifications were completed in September
- CLSI hosted an all-day Conference on September 12, 2013 from 8:30-5:50 at COPIA center in Napa

North Bay TMDL Implementation: (EPA: Estuary 2100-2)

Marin County/Napa County RCD/Sonoma Ecology Center/South Sonoma RCD

Marin Municipal Water District

Submitted 3 project invoices.

North Bay Watershed Association

- NBWA continued coordination through e-mails, Habitat / Floodplain Technical Committee meetings and first progress report to NBWA Board (April & May). NBWA has been working with project partners to consolidate invoicing across all TMDL implementation projects.

Marin County

- Construction began in September and is expected to be completed in October
- Two presentations were made to the North Bay Watershed Association (NBWA) to keep the public informed about progress on this project.
- The www.marinwatersheds.org website has been updated with construction details.
- SFEP staff made a site visit on October 15 to the restored reach with the EPA and was walked through the newly constructed features.

Napa County RCD

- Napa RCD assessed approximately 20 miles of unpaved road/trail in the Redwood Creek watershed of the Napa River, 3.2 miles of unpaved trail for the Napa County Regional Parks and Open Space District and provided treatment recommendations for the Oat Hill Mine Trail.
- NRCD collected and modified educational materials related to conservation practices for use in a farm planning workbook, including revisions to NRCS practice sheets and tips to reduce erosion from rural roads
- Oversight was provided for implementation of erosion reduction projects, including installation of rolling dips on 0.75 miles of road, maintenance of sediment basins, and cleansing of drop inlets.
- NRCD continued building regional capacity and project integration by preparing & delivering project update presentations to NBWA Board (4/13) and NBWA Watershed Council (5/13), meeting with Sonoma RCD and Mendocino RCD regarding efforts to coordinate farm planning so that farm plans across the North Bay are consistent, and by meeting with representatives from the vineyard industry about Water Board efforts to develop a regulatory vineyard program and assisted with coordination of a meeting between the agricultural industry and Water Board staff and Directors.

Sonoma Ecology Center

- SEC secured their DFW Stream Alteration Agreement for the storm drain and gutter drain energy dissipater detention basin modifications.
- SEC continues to maintain all restoration sites including weed control, irrigation repairs and plant inspections at revegetation and willow revetment sites.
- Monitoring and photo documentation of these sites for the season was completed.
- Suspended sediment, stream flow, turbidity, and BMI sample processing has continued through this period.

Southern Sonoma RCD

- SRCD continued the development of a regional farm conservation planning program, LandSmart™, which is available for vineyard waiver and general farm water quality planning compliance.
- SRCD continues working with the project engineer and property owner to get consensus on project designs (currently at 75% design) and preliminary permitting requirements.
- SRCD continued ongoing regional outreach regarding services available through the RCDs Slow it, Spread it, Sink it (S3) stormwater management program
- SRCD presented at a North Bay Watershed Association meeting, attended Sonoma Valley Groundwater Management Program (SVGWMP) technical advisory committee meetings, attended a Sonoma County Transportation Authority meeting, and Sonoma Valley Basin Advisory Panel meetings.

Trash Capture Demonstration Project (SWRCB-ARRA/Bonds)

- SFEP worked extensively with SFEI to repair and test the trash tracker website
- Collected and logged all construction information, summarizing trash capture device installations and expenditures for participating municipalities.
- Prepared final report for the project to be released at the State of the Estuary Conference in October.
- We began developing a monitoring/reporting protocol for participating municipalities to fulfill MRP reporting.
- Completed and submitted the project PAEP
- Worked to develop the Trash Session for the State of the Estuary Conference in October
- Trained participating municipalities on how to use the Trash Tracker website
- Updated project webpage
 - <http://www.sfestuary.org/our-projects/water-quality-improvement/trashcapture/>

Recreational Boating Pump-out Project (DBW)

- SFEP hosted the second annual California CVA outreach and education program meeting. Attendees included The Bay Foundation and the Department of Boating and Waterways. During this meeting, parties discussed outreach strategies, new work efforts, and how to better unify the northern and southern California programs.
- Distributed 7,900 maps to marinas, yacht clubs, and boating supply stores
- Exhibited at the Strictly Sail Pacific boat show in April. SFEP distributed 934 maps and conducted outreach to boat show attendees regarding effects of boat sewage discharge, options to dispose of sewage, and resources available to boaters.
- Met and interviewed Diane Isley, Steve Orosz, Vicky Bauman, and Mark Sanders (all are harbormasters) on the programs and technologies they have in place to curb sewage discharge.
- Attended the States Organization for Boating Access Conference in September. This conference brings together all the state run CVA and BIG programs to discuss various methods of outreach/education and grant management.
- SFEP staff wrote an article that was published in the Changing Tides in the Fall 2013 edition. It reviewed in slip pumpout systems and their ability to reduce sewage discharge in marinas.
- SFEP conducted a Honey Pot Day event in the Delta. Free mobile pumpouts were offered if boaters were willing to discuss sewage discharge and receive informational material on site. A total of 24 vessels were pumped out, safely disposing of 814 gallons of sewage.
- Conducted two quarterly pumpout surveys that assess the functionality of pumpouts and record their use.

Aquatic Invasive Species

- Participated on the Biofouling Technical Advisory Group for the California State Lands Commission's Marina Invasive Species Program. The group met on August 4th to continue the process of developing effective biofouling management regulations to reduce risk to California waters. The primary goal of the meeting was to inform the drafting of revised regulatory text.
- Ballast Water Management Program, California State Lands Commission's Marina Invasive Species Program. Worked on a team to finalize the Ballast Water Treatment Technology Report including providing comments at several meetings to solve several contentious issues. Also, worked with the same team to develop an RFP for a shore-based treatment feasibility study. Both items were approved at the June Commission meeting.

- Attended the Federal Aquatic Nuisance Species Task Force “Spring Meeting” as an Ex Officio member. The meeting was actually changed to a webinar, which has hosted on June 17, 2014.
- Served as Vice Chair of the Western Regional Panel on Aquatic Nuisance Species. Participated on monthly Executive Committee conference calls and attended the Annual Meeting in Portland, Oregon, in September 2013. Key panel activities included the following:
 - Updated the bi-laws and membership of the panel.
 - Coordinated with stakeholders on Japanese tsunami debris fouled with invasive species.
 - Provided a forum for communication regarding watercraft inspection and decontamination station operations by a variety of jurisdictions to prevent and contain zebra and quagga mussels, and other ANS, throughout the Western USA.
 - Provided a forum to facilitate the future standardization of both field and laboratory processes and operating procedures regarding early detection of Dreissenid mussels.
 - Coordinated research for filtration of recreational ballast tanks for prevention of the further dispersal of Dreissenid mussels in recreational ballast tanks.
- California State Aquatic Invasive Species Management Plan. Attended a meeting to review the 2003 State Management plan in, to provide input for the update in 2014.

Fremont Tree Well Filters Monitoring (EPA: Estuary 2100-2)

- SFEI has continued monitoring on the Fremont Tree well filters, and a revised Sampling and Analysis Plan has been submitted and approved. This revision was prompted by the lack of significant storm events to sample. SFEI has summarized the results of statistical analysis to determine if there's a significant difference between pollutant concentrations between the 2 tree wells.
- Fremont hosted a group of students from Cal State East Bay in April where they learned about LID requirements of the MRP and more specifically, the tree well filter project's design and goals.
- The outreach sign planned for the project is currently being designed.

North Richmond Pilot to Treat Dry Weather Flows (EPA: Estuary 2100-2)

- The County initiated formal discussions with West County Wastewater District (WCWD) to divert stormwater to their wastewater treatment plant as part of a pilot project. The meetings with WCWD have been positive, with both parties developing a better understanding of each other's operations, regulatory requirements, and logistical constraints. Progress towards submittal of a formal application has been slower than anticipated. The County also received an analysis of construction costs from Brown and Caldwell. The estimated costs greatly exceeded initial projections. The County also received the final report from SFEI for the "Pollutant Monitoring in the NRPS."

Newcomb Avenue Green Street (EPA: Estuary 2100)

- SFPUC's flow monitoring has been completed using 4 flow meters located at the intersection of Newcomb Ave and Phelps Ave. SFEI has conducted QA and preliminary analysis of the data collected before the construction fix in 2012.

- The CCSF continues to work with the community to educate them on properly caring for the newly planted beds and will be providing them with tools to complete their work. CCSF continues its scheduled maintenance that includes weeding, trimming, debris removal, lifting and pruning tree branches and irrigation

Got Ants (DPR)

- All materials were finalized, including a website text and layout and a suite of graphics for advertising. Flyers and magnets were printed and distributed to partners.
- The Got Ants project launched in May 2013, with the website and facebook pages going live, transit advertising on Bay Area BART trains, and google ads to support the campaign. Partners distributed flyers and magnets at outreach events, stores, and their own offices.
- The project is tracking website traffic and pledges. Traffic from the first few months surpassed the goal of 4000 visitors (already past 5000), and pledges are at 110 out of a goal of 500.
- As additional outreach occurs, project staff are analyzing effectiveness of various types (media, advertising, print, online, events, etc.) for future projects.
- Evaluation plans were modified, as it proved infeasible to collect sales data from stores or IPM service data from participating pest control providers.

Greener Pesticides for Cleaner Waterways (EPA SFBIF 2012)

- App work included working with Chinook Book to incorporate Our Water Our World content into the CB app, providing a readymade platform with a significant Bay Area audience base not limited to pesticide issues. The Chinook Book contact provided a draft which required heavy editing.
- IPM Advocates continued activities to support IPM in 11 retail stores: training employees, staffing outreach tables to speak directly to customers, providing Our Water Our World materials, and creating promotional displays of less-toxic products for seasonal pest issues.
- Efforts to review advertising plans included assessment of effectiveness from the Got Ants project and coordination with project partners about current outreach through the Our Water Our World program and Home Depot stores.

Objective 4: Champion the Estuary (EPA-NEP and grants)

Director Judy Kelly traveled Washington DC on September 17th to a meeting with the new US EPA Administrator, Gina McCarthy, as part of a small group of National Estuary Program Directors

Kelly made a presentation to the ABAG Executive Committee on September 19th to brief them on the progress and status of freshwater flows into San Francisco Bay since they passed a Resolution in 2011 calling for additional freshwater flows to better protect and restore the Bay.

ESTUARY NEWS April 2013

Articles covered investigations about estuary critters like the overbite clam [*Corbula amurensis*] and this invasive mollusk's salinity limitations and the Tiger Beetle population as a measure of

bayshore health, a discussion about the controversy of oyster growing in Drakes Estero of the Point Reyes National Seashore, a report out on the California Climate and Agriculture Summit, and a description of the wonderful Bay Observatory at the new Exploratorium along the San Francisco waterfront.

***ESTUARY NEWS* June 2013**

This edition covers paddling the Bay's water trail, California's cap and trade legislation, restoring Florida's Kissimmee River, currents versus catamarans in San Francisco Bay, and Back to the Future for the Habitat Goals. Covered topics and partners include the America's Cup, Cargill, Bay Planning Coalition, Point Blue Conservation Science, Richardson Bay Audubon Center, South Florida Water District, URS Corps; IEP, DWR, SCC, SFEI, USEPA, USFWS, USGS.

Outreach Presentations on the Benefits of Green Infrastructure for Stormwater Treatment

- SFEP staff presented on Green Infrastructure and Spine Project at Landscape Design & Architecture ProSeminar Series at UC Davis on May 31, 2013.
- SFEP staff submitted an abstract for the Fall 2013 CASQA Conference (accepted in July 2013) entitled "San Francisco Bay Area IRWMP-Funded Stormwater Projects."
- On August 22, 2013, SFEP staff presented an overview of the San Pablo Ave Stormwater Spine Project and detailed information of the Richmond project site at a community meeting held on-site.
- SFEP staff made presentation at the Fall 2013 CASQA Conference in September 2013. The presentation topic was "San Francisco Bay Area IRWMP- Funded Stormwater Projects".

Bay Protection and Behavior Change

- The Executive Group sought assistance from creative professionals in developing a new path forward after last year's creative firms did not provide an acceptable logo and tagline. Several proposals were considered.

Outreach- Boating

SFEP and the Department of Boating and Waterways Clean Vessel Act Program partnered with Septic Brothers in the Sacramento Delta and worked with Sequoia Yacht Club and Oakland Yacht Club, to arrange pump-outs for their cruises to Delta Yacht Club on August 8, 2013. SFEP traveled to several other marinas and anchor points in the Delta to conduct additional outreach.

- A total of 24 boats were pumped out representing seven different locations/affiliations including Oakland Yacht Club, Sequoia Yacht Club, Richmond Yacht Club, Tower Park Marina, Grand Marina, Village West Marina and H & H Marina.
- A total of 814 gallons of sewage was removed from the boats serviced. In addition to the 24 captains, 26 boaters took part in the education and outreach component totaling 50 boaters for the day.

GOAL 2: REORGANIZE SFEP FOR GREATER EFFECTIVENESS (EPA-NEP)

Ongoing Activities: SFEP:

- Drafted/processed 38 new sub-recipient/consultant contracts and 22 contract amendments.
- Completed 6 ABAG Executive Board staff report items and 3 draft resolutions.
- Support Implementation Committee and Friends of the Estuary.

GOAL 3: INCREASE FUNDING AND RESOURCES TO SUPPORT SFEP AND ITS PARTNERS TO IMPLEMENT THE COMPREHENSIVE PLAN (EPA-NEP)

Grants/Contracts Received

- Contract of \$50,000 from State Coastal Conservancy for support of 2013 State of the Estuary Conference.
- Contract amendment of \$350,500 from the Delta Science Program to increase science support services and extend contract agreement.
- Contract from State Resources Control Board for Regional GreenPlan Toolkit for siting LID projects in partnership with SFEI for \$597,901.
- New five year contract agreement with Alameda County for SFEP/ABAG permit writer to assist Regional Water Board in permit, environmental document reviews.