

FLOOD ZONE 9 ADVISORY BOARD MEETING
DECEMBER 16, 2013
ROSS TOWN HALL
STAFF REPORT

Item 1. Open Time For Items Not On The Agenda

Item 2. Update: Program Principles Statement

In response to the success of the partner implementing agencies' selection for over \$26 million in grants and the desire to continue this aggressive strategy, staff discussed the Ross Valley program with representatives from the Towns of Fairfax, San Anselmo, and Ross, and the City of Larkspur. We are presenting for your review additions and refinements to the Program Principles. These principles provide staff with a basis for recommending projects and other actions taken to further the Ross Valley program. Staff will present the attached revised copy of the Principles.

Item 3. 10 Year Work Plan Funding Draft

In the Ross Valley Flood Protection and Watershed Program Capital Improvement Plan Study Report, an order of implementation is proposed in [Table 1 of the Ross Valley CIP Report, Section 5.0 "Implementation" Pages 41-49](#). Multiple measures are recommended for different sections of the creek (reaches) from Ross to Fairfax. These include removal of the fish ladder in Ross and creek improvements immediately upstream (Unit 4); numerous in-creek measures, top-of-bank floodwalls, and replacement or retrofitting of bridges and building bridges in San Anselmo; replacement of bridges and in-creek capacity improvements in the Sleepy Hollow area of San Anselmo; floodwalls and creek capacity improvements and building bridge removal in Fairfax. Maintaining channel capacity in the tidal zone is recommended. Development of multiple upstream detention basins is recommended and necessary to the success of the creek capacity improvements. They reduce the number and size of in-creek measures required to contain a flood of the magnitude of the December 2005 flood.

The measures in the 10 Year Work Plan (10 YWP) were selected from Table 1 in the CIP Report in an arrangement that will establish the interim flood risk reduction level of a 25-Year-Flood level of flood protection. The Baseline Measures in the 10YWP are key measures in the long term plan and were chosen for the 10YWP for their range of benefit in flood reduction and the high likelihood of available grant funding. The replacement of the fish ladder in Ross and connected creek improvements (Unit 4) and dredging of the tidal zone are required to increase and maintain downstream flow capacity and are included in the Baseline Measures in the 10 YWP.

Using the Principles of the program, District and town staffs have moved forward on these measures, initiating 4 bridge projects, 2 detention basin projects, and are initiating geotechnical field work for 2 other detention basins. \$27 million in grants are either secured or in process to be secured and \$7.2 million in other grant opportunities has been identified for 2 other projects in the Baseline Measures that will be pursued in the near future.

The above work requires a commitment to the implementing agency of Flood Zone 9 funds as the local matching share of grants, or may require full funding for projects for which grant funding is not able to be secured. Staff will present the funding levels of each project for your review of each allocation prior to an action by the Board of Supervisors to allocate the funds.

Attached is a draft 10 YWP funding plan for review. (Last page)

Marin County Flood Control and Water Conservation District

Item 5. USACE Flood Control Project (Unit 4) – Funding Cost Sharing Agreement for the Study Phase

Cost Estimate – Planning/Study Phase \$3,000,000, Construction \$6,560,000 (Source – USACE)
Implementing Agency – U.S. Army Corps of Engineers

The U.S. Army Corps of Engineers (USACE) Flood Control Project, known as Unit 4, is one of the essential projects in the proposed watershed-wide flood protection system. Carrying out this project increases the capacity of the channel to contain the flow from upstream, preventing floodwaters from leaving the creek in the Town of Ross and Kentfield. Working with the Corps of Engineers to implement this project offers an opportunity to receive 50% federal funding for the study, design, and environmental review phase. It is an opportunity that should be pursued.

The San Francisco District of the Corps of Engineers has requested that the District execute a *Funding Cost Sharing Agreement* (FCSA) by January 2014. Doing so will upgrade the current status of the project to the more favorable “Policy Compliant” status. This gives the USACE more compelling justification to request federal funding for the project study in the Fiscal Year 2015 federal budget and perhaps even receive remaining 2014 funds from the SF District. (There are no funds for the project in the President’s Fiscal Year 2014 budget).

This agreement commits Flood Zone 9 to paying 50% of the study and design phase of the project with the maximum commitment being \$1.5 million. This \$1.5 million can be contributed with “in-kind” work. In-kind contribution is work done by the Flood Control District and our consultants and matched by a dollar-for-dollar amount by the USACE for work done by their technical and administrative staff. USACE can request monetary contributions from the District if they have a matching amount in their budget.

The engineering and environmental review work that will be carried out by the District as in-kind contribution is work that must be done regardless of who implements the project. At the end of the study phase, the environmental review documents (NEPA and CEQA) will be complete and the design of the project will be developed. As part of the NEPA/CEQA process, public meetings will be held to solicit input from the communities on alternative ways to achieve the project objectives.

Executing the agreement does not obligate Flood Zone 9 to begin spending money on the project but creates the framework to do so. At any time, if we decide that further collaboration with USACE on this project is not in the best interests of the program, we can withdraw from the agreement. The funding amount of \$1.5 million will require a change to the FY 13/14 budgets for Flood Zones 9 and 9A. See attached budget sheets.

The construction phase is 98.5% federally funded under the current, non-compliant agreement. No action to change this percentage is proposed at this time. We recommend that decision be made at the end of the environmental review phase, taking into account congressional funding priorities at that time. A conservative local share of 50% is included in the 10 YWP in Item 4.

RECOMMENDED ACTIONS:

1. Recommend the Board of Supervisors approve the budget changes.
2. Recommend the Board of Supervisors execute the Funding Cost Sharing Agreement with the U.S. Army Corp of Engineers.

Item 6. Next Meeting Date – February, 2014

DRAFT

The Ross Valley Flood Protection and Watershed Program

Purpose of the Principles and Goals

During the course of the Ross Valley Watershed Program development, several clarifying and guiding principles and goals have surfaced through interactions with the community and policy makers. A list of specific core principles is developed to serve in guiding decision making at the program level. At the program level, broad decisions on policy, implementation order, and funding strategies keep the program on track to achieve the long term goals.

Principles of the Program - Proposed

- **Time is of the Essence** – Reducing flood risk in the Ross Valley as soon as possible is of the highest importance
- **Broad Benefit** – Strive to provide wide, regional benefit in project selection and implementation order in balance with economic feasibility
- **Watershed Approach** – Integrated Approach – The program holds that solutions to reducing flood risk lie in both multi-jurisdictional collaboration and viewing the watershed as a system
- **Stakeholder Engagement** - Include Stakeholders in the planning and implementation process through public outreach and coordination with community leaders
- **Transparency** – Engage the community by providing opportunities for public input and by providing information via public meetings, the program website, publications, and the media
- **Multi Objective/Multi Benefit** - The Integrated Regional Water Management (IRWM) approach looks to create multi-benefit projects. It is the national and international model and is what is being supported and encouraged through funding at the state, federal, and international levels
- **Preserve And Protect The Natural Environment** – The program will seek to conserve natural resources and look for opportunities to improve the environment in planning and implementing flood control projects
- **Maximize Benefit At Minimum Cost** – Baseline Projects, the US Army Corps of Engineers' project, and dredging of the lower channel were selected as first priority projects in the 10 Year Work Program to provide a benefit to the largest number of residents and to take advantage of known, available grant funds. As grants are secured for these measures, funds will be available for other measures
- **Protect – Do No Harm** – Potential significant impacts from implementation of any measure or project will be addressed through appropriate and approved mitigation measures during the design phase and the environmental review and permitting process through consultations with the community and state and federal resource agencies

Marin County Flood Control and Water Conservation District

- **Aggressively Pursue Funding Opportunities** - Projects and measures will be developed to “grant ready” status. Grant funding of at least 70% of the project’s estimated cost will be pursued
- **Project Progress** – Since time is of the essence, once projects are developed to “grant ready” status, the District will seek the recommendation of the Advisory Board on whether to continue to wait until 70% in grant funds are secured or to proceed to the next phase of the project, e.g., CEQA and Permitting
- **Flood Zone 9 Fee Eligibility** – Elements of a project or measure that are in compliance with the Flood Zone 9 Fee Ballot language are eligible for Flood Zone 9 funding. Elements that are not eligible will require other funding sources
- **Incorporate the Program Measures into jurisdictional Capital Improvement Plans** –The participating towns are encouraged to include flood reduction measures proposed for their jurisdiction in their town’s CIP document

Marin County Flood Control and Water Conservation District

REVISED BUDGET

**FCZ #9a Ross Valley - Corte Madera
Fund 23780**

Budget Summary

Account Description	FY 2012-13 Budget	FY 2012-13 Projected	FY 2013-14 Budget
Fund Beginning Balance	\$1,121,603	\$1,159,258	\$1,084,258
Expenses			
Salaries and Benefits	\$39,000	\$39,000	\$49,000
Service and Supplies	\$44,750	\$40,000	\$1,035,000
Capital Outlay	\$0	\$0	\$0
Total Expenditures	\$83,750	\$79,000	\$1,084,000
Revenue			
Revenues From Use of Money and Property	\$4,000	\$4,000	\$4,000
Miscellaneous Revenues	\$0	\$0	\$0
Total Revenue	\$4,000	\$4,000	\$4,000
Fund Ending Balance	\$1,041,853	\$1,084,258	\$4,258

Major "Services & Supplies" Expenditures

Professional Services			
Legislative Services	\$20,000	\$20,000	\$0
<i>U.S. Army Corps of Engineers Cost Share</i>	\$0	\$0	\$965,000
Title Company - Lands and Easements			\$50,000
Miscellaneous Studies	\$20,000	\$20,000	\$20,000
Total	\$40,000	\$40,000	\$1,035,000
Other Services & Supplies	\$4,750	\$0	\$0

Marin County Flood Control and Water Conservation District

CURRENT BUDGET

FCZ #9a Ross Valley - Corte Madera

Fund 23780

Budget Summary

Account Description	FY 2012-13 Budget	FY 2012-13 Projected	FY 2013-14 Budget
Fund Beginning Balance	\$1,121,603	\$1,159,258	\$1,084,258
Expenses			
Salaries and Benefits	\$39,000	\$39,000	\$49,000
Service and Supplies	\$44,750	\$40,000	\$470,000
Capital Outlay	\$0	\$0	\$0
Total Expenditures	\$83,750	\$79,000	\$519,000
Revenue			
Revenues From Use of Money and Property	\$4,000	\$4,000	\$4,000
Miscellaneous Revenues	\$0	\$0	\$0
Total Revenue	\$4,000	\$4,000	\$4,000
Fund Ending Balance	\$1,041,853	\$1,084,258	\$569,258

Major "Services & Supplies" Expenditures

Professional Services

Legislative Services	\$20,000	\$20,000	\$0
U.S. Army Corps of Engineers Cost Share	\$0	\$0	\$400,000
Title Company - Lands and Easements			\$50,000
Miscellaneous Studies	\$20,000	\$20,000	\$20,000
Total	\$40,000	\$40,000	\$470,000

Other Services & Supplies

\$4,750	\$0	\$0
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Marin County Flood Control and Water Conservation District
REVISED BUDGET

FY 2013 - 2014 Budget Report			
FCZ #9 Ross Valley			
Fund 23781			
Budget Summary			
Account Description	FY 2012-13 Budget	FY 2012-13 Projected	FY 2013-14 Budget
Fund Beginning Balance	\$8,597,409	\$9,010,532	\$9,949,172
Expenses			
Salaries and Benefits	\$690,000	\$710,000	\$950,000
Service and Supplies	\$4,183,821	\$685,000	\$3,210,000
Total Expenditures	\$4,873,821	\$1,395,000	\$4,160,000
Revenue			
Taxes	\$2,307,840	\$2,309,140	\$2,309,140
Revenues From Use of Money and Property	\$23,000	\$23,000	\$23,000
Intergovernmental Revenues	\$1,000	\$1,000	\$1,000
Miscellaneous Revenues	\$0	\$500	\$500
Proposition 1E SWFM Grant - Phoenix Lake IRWM Retrofit	\$561,533	\$0	\$565,000
Total Revenue	\$2,893,373	\$2,333,640	\$2,898,640
Fund Ending Balance	\$6,616,961	\$9,949,172	\$8,687,812
Major "Services & Supplies" Expenditures			
Professional Services			
Phoenix Lake - Pre-Design Studies, Design, Permitting	\$1,123,066	\$14,150	\$1,120,000
Phoenix Lake - Baseline Water Quality Study Guages	0	\$15,000	\$10,000
Lefty Gomez Field Detention Basin	\$1,050,000	\$25,000	\$0
Memorial Park Detention Basin	\$1,138,000	\$150,000	\$0
Loma Alta Detention Basin	\$315,000	\$0	\$0
U.S. Army Corps of Engineers Unit 4 Cost Share	\$0	\$0	\$535,000
Engineering Services Task-Based Contract (3Yr-\$300k)		\$300,000	\$0
Creek Capacity Improvements - Bridge Program	\$50,000	\$0	\$10,000
Fish Passage Program	\$30,000	\$20,000	\$25,000
Surveying - Various Projects	\$10,000	\$0	\$10,000
Greenbrae Bdwk Area Road Raising Investigation	\$5,000	\$0	\$0
Real Estate Services	\$50,000	\$15,000	\$50,000
FEMA Community Rating System - Launch	\$10,000	\$0	\$0
Annual Engineers Report - Flood Fee	\$20,000	\$17,000	\$20,000
Miscellaneous Studies	\$250,000	\$0	\$1,305,000
Total	\$4,051,066	\$556,150	\$3,085,000
Maintenance & Repair Services - Equipment			
ALERT System Maintenance (Gauges and Software)	\$2,600	\$1,700	\$0
Precipitation and Stream Gauge Maintenance	\$0	\$0	\$1,700
ALERT System (Radio and Software for Gauges)	\$0	\$0	\$7,600
TV Tamalpais Creek culvert and others	\$0	\$5,000	\$0
Miscellaneous Services	\$45,000	\$8,700	\$0
Total	\$47,600	\$15,400	\$9,300
Maintenance & Repair Services - Land & Buildings			
CCNB (Conservation Corps North Bay)	\$29,000	\$29,000	\$30,100
Creek Maintenance Program	\$0	\$30,000	\$30,000
Miscellaneous	\$21,700	\$21,700	\$21,700
Total	\$50,700	\$80,700	\$81,800
Other "Service and Supplies" Expenditures	\$34,455	\$32,750	\$33,900

Marin County Flood Control and Water Conservation District
CURRENT BUDGET

FY 2013 - 2014 Budget Report			
FCZ #9 Ross Valley			
Fund 23781			
Budget Summary			
Account Description	FY 2012-13 Budget	FY 2012-13 Projected	FY 2013-14 Budget
Fund Beginning Balance	\$8,597,409	\$9,010,532	\$9,949,172
Expenses			
Salaries and Benefits	\$690,000	\$710,000	\$950,000
Service and Supplies	\$4,183,821	\$685,000	\$2,675,000
Total Expenditures	\$4,873,821	\$1,395,000	\$3,625,000
Revenue			
Taxes	\$2,307,840	\$2,309,140	\$2,309,140
Revenues From Use of Money and Property	\$23,000	\$23,000	\$23,000
Intergovernmental Revenues	\$1,000	\$1,000	\$1,000
Miscellaneous Revenues	\$0	\$500	\$500
Proposition 1E SWFM Grant - Phoenix Lake IRWM Retrofit	\$561,533	\$0	\$565,000
Total Revenue	\$2,893,373	\$2,333,640	\$2,898,640
Fund Ending Balance	\$6,616,961	\$9,949,172	\$9,222,812
Major "Services & Supplies" Expenditures			
Professional Services			
Phoenix Lake - Pre-Design Studies, Design, Permitting	\$1,123,066	\$14,150	\$1,120,000
Phoenix Lake - Baseline Water Quality Study Guages	0	\$15,000	\$10,000
Lefty Gomez Field Detention Basin	\$1,050,000	\$25,000	\$0
Memorial Park Detention Basin	\$1,138,000	\$150,000	\$0
Loma Alta Detention Basin	\$315,000	\$0	\$0
Engineering Services Task-Based Contract (3Yr-\$300k)		\$300,000	\$0
Creek Capacity Improvements - Bridge Program	\$50,000	\$0	\$10,000
Fish Passage Program	\$30,000	\$20,000	\$25,000
Surveying - Various Projects	\$10,000	\$0	\$10,000
Greenbrae Bdwk Area Road Raising Investigation	\$5,000	\$0	\$0
Real Estate Services	\$50,000	\$15,000	\$50,000
FEMA Community Rating System - Launch	\$10,000	\$0	\$0
Annual Engineers Report - Flood Fee	\$20,000	\$17,000	\$20,000
Miscellaneous Studies	\$250,000	\$0	\$1,305,000
Total	\$4,051,066	\$556,150	\$2,550,000
Maintenance & Repair Services - Equipment			
ALERT System Maintenance (Gauges and Software)	\$2,600	\$1,700	\$0
Precipitation and Stream Gauge Maintenance	\$0	\$0	\$1,700
ALERT System (Radio and Software for Gauges)	\$0	\$0	\$7,600
TV Tamalpais Creek culvert and others	\$0	\$5,000	\$0
Miscellaneous Services	\$45,000	\$8,700	\$0
Total	\$47,600	\$15,400	\$9,300
Maintenance & Repair Services - Land & Buildings			
CCNB (Conservation Corps North Bay)	\$29,000	\$29,000	\$30,100
Creek Maintenance Program	\$0	\$30,000	\$30,000
Miscellaneous	\$21,700	\$21,700	\$21,700
Total	\$50,700	\$80,700	\$81,800
Other "Service and Supplies" Expenditures	\$34,455	\$32,750	\$33,900

Marin County Flood Control and Water Conservation District

FC MEASURES - 10 Year Work Plan		Implementing Agency	10 YWP Estimated Costs, Updated Costs, Grants				December 9, 2013
			ORIGINAL COST ESTIMATES 10 Year Work Plan as Approved by FZ9 AB on April 3, 2012	Updated Costs (where known)	Secured and In-Process Grants	Updated Costs minus Secured and In-Process Grants	Current Work Program
BASELINE MEASURES 10 YWP							
Loma Alta	FC District	\$1,900,000	\$1,900,000	\$0	\$1,900,000	\$1,900,000	
Lefty Gomez	FC District	\$6,400,000	\$6,400,000	\$0	\$6,400,000	\$6,400,000	
Memorial Park (Prop 1E Scope)	San Anselmo	\$7,000,000	\$17,441,000	\$8,720,500	\$8,720,500	\$8,720,500	
Phoenix Lake (Prop 1E Scope)	FC District	\$15,322,000	\$19,691,150	\$7,661,000	\$12,030,150	\$12,030,150	
Azalea Ave - FX	Fairfax	\$1,136,000	\$1,136,000	\$1,136,000	\$0	\$0	
Nokomis Ave SA	San Anselmo	\$1,908,000	\$2,396,000	\$2,396,000	\$0	\$0	
Madrone Ave SA	San Anselmo	\$1,280,000	\$2,415,000	\$2,155,000	\$260,000	\$260,000	
Sycamore Ave (Center Blvd) SA	San Anselmo	\$4,279,000	\$2,310,000	\$1,560,000	\$750,000	\$750,000	
Winship Ave RS	Ross	\$1,640,000	\$1,640,000	\$1,451,000	\$189,000	\$189,000	
SFD Blvd Bridge RS	Ross	\$6,125,000	\$6,125,000	\$0	\$6,125,000	\$6,125,000	
Bldg Bridge #2	San Anselmo	\$2,710,000	\$2,710,000	\$1,810,000	\$900,000	\$900,000	
Unit 4 (Assumptions)							
Planning FCSEA	USACE	\$0	\$3,000,000	\$0	\$1,500,000	\$1,500,000	
Construction	USACE	\$0	\$6,560,000	\$0	\$3,280,000	\$3,280,000	
LERDS	FC District	\$0	\$4,500,000	\$0	\$4,500,000	\$4,500,000	
Corte Madera Creek Dredge (100,000 CY @ \$45/CY) plus Design, Enviro, Permits	FC District	\$0	\$6,210,000	\$0	\$6,210,000	\$6,210,000	
TOTAL - Baseline Measures		\$49,700,000	\$84,434,150	\$26,889,500	\$52,764,650	\$52,764,650	
ADDITIONAL MEASURES 10 YWP							
Merwin Avenue Bridge Replacement [124]*	TBD	\$989,000	\$989,000	\$0	\$989,000	\$0	
Channel Modifications at Merwin Bridge Area [121][122][123][125][126][127][128]	TBD	\$957,000	\$957,000	\$0	\$957,000	\$0	
Install new wing wall [142]	TBD	\$126,000	\$126,000	\$0	\$126,000	\$0	
Install new wing wall [143]	TBD	\$136,000	\$136,000	\$0	\$136,000	\$0	
Install Floodwall/Berm as wing wall extension [144]	TBD	\$70,000	\$70,000	\$0	\$70,000	\$0	
Supplement: Floodwall <3.6' RS662-700 (35 ft long)	TBD	\$50,000	\$50,000	\$0	\$50,000	\$0	
Supplement: Floodwall <3.3' RS662-791 (129 ft long)	TBD	\$655,000	\$655,000	\$0	\$655,000	\$0	
Supplement: Floodwall <2.0' RS956-1283 (327 ft long)	TBD	\$150,000	\$150,000	\$0	\$150,000	\$0	
	TBD						
Taylor Avenue Bridge Replacement [203]	TBD	\$991,000	\$991,000	\$991,000	\$0	\$0	
Replace Existing Retaining Wall [209]	TBD	\$216,000	\$216,000	\$0	\$216,000	\$0	
Retrofit/Replace Existing Retaining Wall [213]	TBD	\$77,000	\$77,000	\$0	\$77,000	\$0	
Construct new retaining wall [216]	TBD	\$99,000	\$99,000	\$0	\$99,000	\$0	
Supplement: Floodwall <1.0' RB RS2762-2796 (34 ft long)	TBD	\$10,000	\$10,000	\$0	\$10,000	\$0	
Construct new retaining wall as wingwall [219]	TBD	\$382,000	\$382,000	\$0	\$382,000	\$0	
Construct new retaining wall	TBD	\$387,000	\$387,000	\$0	\$387,000	\$0	
	TBD						
Broadmoor Avenue Bridge Replacement [224]	TBD	\$1,354,000	\$1,354,000	\$0	\$1,354,000	\$0	
Channel Modifications RS3400-3442 [225][227][228]	TBD	\$249,000	\$249,000	\$0	\$249,000	\$0	
Floodwall <2.0' LB RS3646 +/- 80' (160 ft long)	TBD	\$65,000	\$65,000	\$0	\$65,000	\$0	
Floodwall <2.0' LB RS4085 +/- 120' (240 ft long)	TBD	\$90,000	\$90,000	\$0	\$90,000	\$0	
	TBD						
All Flood Control Measures (22) from RS437000-45970	TBD	\$9,214,000	\$9,214,000	\$0	\$9,214,000	\$0	
Floodwall <1.0' RB RS43397-43512 (115 ft long)	TBD	\$15,000	\$15,000	\$0	\$15,000	\$0	
Supplement: Floodwall <3.0' RB RS43716-43773 (57 ft long)	TBD	\$50,000	\$50,000	\$0	\$50,000	\$0	
Supplement: Floodwall <32.5' RB RS43828-43838 (10 ft long)	TBD	\$5,000	\$5,000	\$0	\$5,000	\$0	
ADDED MEASURES - SUPPLEMENT TO 10YWP							
SUBTOTAL - Additional Measures		\$16,337,000	\$16,337,000	\$991,000	\$15,346,000	\$0	
PROGRAM MANAGEMENT and PUBLIC OUTREACH							
Staff = 10 Years @ \$346,951	NA	\$0	\$3,469,513	\$0	\$3,469,513	\$3,469,510	
Hydraulic & Hydrologic Engineering, Grant Application Prep (3 years @ \$100K per year max)	NA	\$0	\$300,000	\$0	\$300,000	\$300,000	
SUBTOTAL			\$3,769,513	\$0	\$3,769,513	\$3,769,510	
GRAND TOTAL		\$66,037,000	\$100,771,150	\$27,880,500	\$68,110,650	\$56,534,160	
Deficit/Surplus without raising annual fee amount					-\$24,964,456	-\$13,387,966	
Deficit/Surplus with an annual 3% rise in fee amount					-\$18,306,299	-\$6,729,809	
Expected Revenue - With No Rise in Fee Amounts:		\$43,146,194					
Expected Revenue - With 3% Rise in Fee Amounts:		\$49,804,351					