

**Marin County Flood Control and Water Conservation District**

**FLOOD CONTROL ZONE 1 ADVISORY BOARD MEETING**

**MARCH 3, 2016**

**STAFF REPORT**

**Item 1. Approval of Meeting Minutes: February 4, 2016**

**Recommended Action:** Approve minutes.

**Item 2. Open Time for Items Not on the Agenda**

Comments will be heard for items not on the agenda (limited to three minutes per speaker).

**Item 3. FEMA Hazard Mitigation Funding Opportunity**

Last fall, the California Valley and Butte Fires led to the declaration of a major disaster. As a result, the Federal Emergency Management Agency (FEMA) has made available hazard mitigation assistance to the State of California Office of Emergency Services (Cal OES). The District submitted notices of interest to use this funding for potential projects in Zone 1. Cal OES then reviewed all the notices of interest received across the state and selected ones most likely to attract hazard mitigation funding. As a result of this review, the District received an invitation for submittal of full applications for one project potentially affecting Zone 1 by June 2016. The project for the Advisory Board to discuss and potentially recommend is:

*Marin County Structure Elevation Program*

This is a program whereby individual homeowners can raise their homes above the FEMA base flood elevation with 75% of their costs reimbursed by the federal government.

Project Budget:

\$3,000,000 Federal Share (FEMA)

\$1,000,000 Local Share (Individual Property Owners)

Costs to design and construct home elevations vary, but for reference may range between \$100,000 and \$250,000, including temporary relocation costs. Thus homeowner contributions would be \$25,000-\$62,500 per structure. Application costs to the Zone will vary depending on method of outreach and number of applicants from Zone 1, but an initial estimate could be \$25,000. Note: in 2007 the County applied for this funding on behalf of 2 property owners in Novato after performing a benefit-cost analysis for 11 interested property owners. No homeowners in Novato ultimately received funding.

**Item 4. Watershed Program Update**

a. **Discussion of Preliminary Short-term Alternative Costs**

The Novato Hydraulic Study identified three potential project alternatives: short-term, medium-term, and long-term suites of projects. Cost estimates for the short-term alternatives will be presented and discussed. These short-term alternatives are the focus of the next phase of work as the County and City of Novato consider a potential election to raise funds for project implementation.

## ***Marin County Flood Control and Water Conservation District***

b. Update on February 22<sup>nd</sup> Community Meeting

The Novato Watershed Program held its second Community Meeting on February 22, 2016 at the Novato City Hall Chambers. Senior Watershed Planner Laurie Williams presented a contextual overview of the watershed, its history of flood reduction projects; and the Novato Watershed Program. Rachel Kamman of Kamman Hydrology and Engineering, consultant on the Hydraulic Study, presented the hydraulic modeling results, focusing on the study's identified short-term alternatives. Approximately 45 people attended; comment cards received showed that people thought the solutions presented could work in Novato and that the meeting helped attendees understand the Watershed Program and potential flood risk reduction projects. Both Novato Rotary and Rotary Club of Novato Sunrise requested presentations on the study findings and short-term solutions.

c. Update on Election Schedule

Novato Watershed Program has contracted with Godbe Research to conduct polling to gauge community interest in a special tax or stormwater fee measure. Novato Watershed Program has contracted with Harris & Associates to conduct tax studies to conduct preliminary cost allocation analyses.

### **Item 5. Review Draft Budget**

The Zone 1 budget for FY 2016-2017 (begins July 1, 2016 and ends June 30, 2017) will be presented to the Board of Supervisors at a hearing this spring. A draft budget will be presented to the AB for review at this meeting. Staff will return to the AB on April 7 with a final proposed budget and ask for a recommendation from the AB.

Recommended <u>Short Term</u> Projects (2/22/16)	Cost Estimate	Cost + Uncertainty	Benefits
Install 10 Storm Drain Tide Gates-Warner and Novato	\$250,000	\$300,000	Keeps local streets passable; reduces ponding of water into Nave Gardens, S. Novato Blvd and Center Rd.
Novato Creek Corridor Expansion-remove southern interior levee	\$2,500,000	\$4,000,000	Reduces upstream flooding and frequency of dredge events; restores creek habitat
West Basin-Oxbow Tidal Marsh Restoration	\$5,000,000	\$6,000,000	Restores tidal marsh; ensure ability of lower Novato Creek to maintain its depth and move sediment
North Deer Island Storm Water Basin and Diversion Weir*	\$2,000,000	\$2,500,000	Divert stormwater to Basin to reduce upstream flooding over 170 acres (Nave Gardens, Novato Blvd and Center Rd); reduces need for emergency breach
<b>Preliminary Cost Total:</b>	<b>\$9,750,000</b>	<b>\$12,800,000</b>	

\*Phase 1 partially funded by State and Federal grants and Zone 1

**DRAFT ANTICIPATED 10-YEAR BUDGET NEEDS FCZ-1**  
**FY 2014-2015 Fund Ending Balance: \$ 3,592,645**

Proposed budget, subject to change

Account Description	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	REMARKS
<b>Staffing</b>												
Pump Operation & Maintenance	\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000	BP and Building Maint.
Creek Maintenance	\$ 165,000	\$ 165,000	\$ 165,000	\$ 165,000	\$ 165,000	\$ 165,000	\$ 165,000	\$ 165,000	\$ 165,000	\$ 165,000	\$ 165,000	1/2 AP, BDaS
General Zone Administration and Outreach	\$ 240,000	\$ 240,000	\$ 240,000	\$ 240,000	\$ 240,000	\$ 240,000	\$ 240,000	\$ 240,000	\$ 240,000	\$ 240,000	\$ 240,000	DN
Engineering Planning	\$ 104,000	\$ 104,000	\$ 104,000	\$ 104,000	\$ 104,000	\$ 104,000	\$ 104,000	\$ 104,000	\$ 104,000	\$ 104,000	\$ 104,000	RL
Environmental Planning	\$ 45,000	\$ 45,000	\$ 45,000	\$ 45,000	\$ 45,000	\$ 45,000	\$ 45,000	\$ 45,000	\$ 45,000	\$ 45,000	\$ 45,000	LL
Environmental Permitting and CEQA	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	KK, LW, CC
GIS and Surveying	\$ 13,000	\$ 3,000	\$ 3,000	\$ 3,000	\$ 13,000	\$ 3,000	\$ 3,000	\$ 3,000	\$ 13,000	\$ 3,000	\$ 3,000	EL
Advisory Board and BOS Administration	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	KT
QA/QC and Strategy	\$ 83,000	\$ 83,000	\$ 83,000	\$ 83,000	\$ 83,000	\$ 83,000	\$ 83,000	\$ 83,000	\$ 83,000	\$ 83,000	\$ 83,000	
Engineering and Real Estate	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	Eng & RE
Storm Response	\$ 115,000	\$ 115,000	\$ 115,000	\$ 115,000	\$ 115,000	\$ 115,000	\$ 115,000	\$ 115,000	\$ 115,000	\$ 115,000	\$ 115,000	All
County Special Cost Allocation	\$ 54,504	\$ 54,504	\$ 54,504	\$ 54,504	\$ 54,504	\$ 54,504	\$ 54,504	\$ 54,504	\$ 54,504	\$ 54,504	\$ 54,504	Acctng
<b>Salaries, Benefits, and Overhead Subtotal:</b>	<b>\$ 1,029,504</b>	<b>\$ 1,019,504</b>	<b>\$ 1,019,504</b>	<b>\$ 1,019,504</b>	<b>\$ 1,029,504</b>	<b>\$ 1,019,504</b>	<b>\$ 1,019,504</b>	<b>\$ 1,019,504</b>	<b>\$ 1,029,504</b>	<b>\$ 1,019,504</b>	<b>\$ 1,019,504</b>	
<b>General Expenses</b>												
Miscellaneous Services & other Agreement Contingency	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	Services such as pump vactoring, pump electrical panel work, etc.
Insurance Premiums	\$ 13,650	\$ 13,650	\$ 13,650	\$ 13,650	\$ 13,650	\$ 13,650	\$ 13,650	\$ 13,650	\$ 13,650	\$ 13,650	\$ 13,650	
Utilities	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	
Miscellaneous Rent & Operating Leases	\$ 1,500	\$ 1,500	\$ 1,500	\$ 1,500	\$ 1,500	\$ 1,500	\$ 1,500	\$ 1,500	\$ 1,500	\$ 1,500	\$ 1,500	
Fuel (for pumps)	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	
Association Dues and Memberships	\$ 4,200	\$ 4,200	\$ 4,200	\$ 4,200	\$ 4,200	\$ 4,200	\$ 4,200	\$ 4,200	\$ 4,200	\$ 4,200	\$ 4,200	
<b>Subtotal:</b>	<b>\$ 61,350</b>	<b>\$ 61,350</b>	<b>\$ 61,350</b>	<b>\$ 61,350</b>	<b>\$ 61,350</b>	<b>\$ 61,350</b>	<b>\$ 61,350</b>	<b>\$ 61,350</b>	<b>\$ 61,350</b>	<b>\$ 61,350</b>	<b>\$ 61,350</b>	
<b>Maintenance &amp; Repair of Equipment</b>												
Simmons Slough - Big Bertha		\$ 350,000		\$ 27,318						\$ 31,670		
Cheda #1			\$ 26,523									
Cheda #2			\$ 26,523									
Farmers	\$ 25,000						\$ 29,853					
Lynwood #1	\$ 25,000						\$ 29,853					
Lynwood #2			\$ 32,436						\$ 38,764			
Lynwood #3					\$ 34,440						\$ 41,123	
Lynwood #4					\$ 34,440						\$ 41,123	
Pump Maintenance Contingency	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	
Rain/Stage Gages and Equipment	\$ 8,000	\$ 8,500	\$ 8,500	\$ 8,500	\$ 8,500	\$ 8,500	\$ 8,500	\$ 8,500	\$ 8,500	\$ 8,500	\$ 8,500	
Various supplies: hardware, gauge equip, bldg supplies, etc	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	
<b>Subtotal:</b>	<b>\$ 88,000</b>	<b>\$ 388,500</b>	<b>\$ 123,981</b>	<b>\$ 65,818</b>	<b>\$ 107,381</b>	<b>\$ 38,500</b>	<b>\$ 98,205</b>	<b>\$ 38,500</b>	<b>\$ 108,934</b>	<b>\$ 38,500</b>	<b>\$ 120,747</b>	
<b>Maintenance &amp; Repair Services of Land</b>												
CCNB (Conservation Corps North Bay)	\$ 202,200	\$ 202,200	\$ 202,200	\$ 202,200	\$ 202,200	\$ 202,200	\$ 202,200	\$ 202,200	\$ 202,200	\$ 202,200	\$ 202,200	
Tree Service	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	
Fence Repair	\$ 8,000	\$ 8,000	\$ 8,000	\$ 8,000	\$ 8,000	\$ 8,000	\$ 8,000	\$ 8,000	\$ 8,000	\$ 8,000	\$ 8,000	
Creek Maintenance Support	\$ 55,605	\$ 55,605	\$ 55,605	\$ 55,605	\$ 55,605	\$ 55,605	\$ 55,605	\$ 55,605	\$ 55,605	\$ 55,605	\$ 55,605	
Rodent Control	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	
Creek maintenance permit fee allowance	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	
Creek maintenance supplies & equipment	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	
Miscellaneous Items	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	Tools, erosion control supplies, safety items, batteries, etc.
<b>Subtotal:</b>	<b>\$ 320,805</b>	<b>\$ 320,805</b>	<b>\$ 320,805</b>	<b>\$ 320,805</b>	<b>\$ 320,805</b>	<b>\$ 320,805</b>	<b>\$ 320,805</b>	<b>\$ 320,805</b>	<b>\$ 320,805</b>	<b>\$ 320,805</b>	<b>\$ 320,805</b>	
<b>Professional Services</b>												
Deer Island Basin Weir Design	\$ 303,000											
Water Level Monitoring Winter 2015-16	\$ 25,033											
NBWRA Study and CEQA	\$ 148,153											
Novato Creek CEQA revision	\$ 40,000											
Novato Creek/Deer Island Basin Studies and Surveys	\$ 25,000	\$ 40,000										
Habitat Mapping in Deer Island Basin	\$ 5,600											
Biological and Cultural Consultants for Projects	\$ 50,000	\$ 50,000		\$ 50,000	\$ 50,000			\$ 50,000	\$ 50,000			
Pacheco Pond Survey and Modeling	\$ 50,000	\$ 50,000										
Labor Compliance Program for grants	\$ 12,500											
Local Levee Evaluation Matching Funds	\$ -											
Website Update	\$ 8,000											
RWQCB Permit Staffer	\$ 60,000	\$ 61,800		\$ 65,564		\$ 69,556		\$ 73,795		\$ 78,288		
<b>Subtotal:</b>	<b>\$ 727,286</b>	<b>\$ 201,800</b>	<b>\$ -</b>	<b>\$ 115,564</b>	<b>\$ 50,000</b>	<b>\$ 69,556</b>	<b>\$ -</b>	<b>\$ 123,795</b>	<b>\$ 50,000</b>	<b>\$ 78,288</b>	<b>\$ -</b>	
<b>Construction Services</b>												
Creek Enhancement and Revegetation	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	
Novato Creek/Deer Island Basin Weir		\$ 1,285,000	\$ 36,500	\$ 36,500	\$ 36,500	\$ 36,500	\$ 36,500	\$ 36,500	\$ 36,500	\$ 36,500	\$ 36,500	
Minor Bank and Sediment Maintenance Contracts		\$ 80,000				\$ 80,000				\$ 80,000		
Novato Creek Sediment Removal	\$ 1,600,000				\$ 1,600,000				\$ 1,600,000			Quadrennial activity
<b>Subtotal:</b>	<b>\$ 1,605,000</b>	<b>\$ 1,370,000</b>	<b>\$ 41,500</b>	<b>\$ 41,500</b>	<b>\$ 1,641,500</b>	<b>\$ 121,500</b>	<b>\$ 41,500</b>	<b>\$ 41,500</b>	<b>\$ 1,641,500</b>	<b>\$ 121,500</b>	<b>\$ 41,500</b>	
<b>Service and Supplies Subtotal:</b>	<b>\$ 2,741,091</b>	<b>\$ 2,281,105</b>	<b>\$ 486,286</b>	<b>\$ 543,686</b>	<b>\$ 2,119,686</b>	<b>\$ 550,361</b>	<b>\$ 460,510</b>	<b>\$ 524,600</b>	<b>\$ 2,121,239</b>	<b>\$ 559,093</b>	<b>\$ 483,052</b>	
<b>Total Proposed Expenditures</b>	<b>\$ 3,831,945</b>	<b>\$ 3,361,959</b>	<b>\$ 1,567,140</b>	<b>\$ 1,624,540</b>	<b>\$ 3,210,540</b>	<b>\$ 1,631,215</b>	<b>\$ 1,541,364</b>	<b>\$ 1,605,454</b>	<b>\$ 3,212,093</b>	<b>\$ 1,639,947</b>	<b>\$ 1,563,906</b>	
<b>Revenues</b>	\$ 2,064,535	\$ 2,028,351	\$ 2,028,351	\$ 2,028,351	\$ 2,028,351	\$ 2,028,351	\$ 2,028,351	\$ 2,028,351	\$ 2,028,351	\$ 2,028,351	\$ 2,028,351	
<b>Reserves</b>	\$ 1,825,235	\$ 491,627	\$ 952,838	\$ 1,356,649	\$ 174,460	\$ 571,596	\$ 1,058,583	\$ 1,481,480	\$ 297,738	\$ 686,142	\$ 1,150,587	