

Marin County Flood Control and Water Conservation District

FLOOD CONTROL ZONE 4 ADVISORY BOARD MEETING

MAY 12, 2016

STAFF REPORT

Item 1. Approval of Meeting Minutes: April 14, 2015

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. Update on FEMA Hazard Mitigation Funding Opportunity: Marin County Structure Elevation Program

This FEMA grant program could assist homeowners in elevating their homes above the 1% annual exceedance flood water surface elevation. Homes on Strawberry Circle that can elevate their homes at least 3 feet above the 1% annual exceedance flood water surface elevation for a total cost no more than \$175,000 have a greater likelihood of benefitting from this grant. As of May 4, six properties in Zone 4A have expressed interest. For more information, go to this web address:

http://www.marinwatersheds.org/documents/Packet-for-homeowners_001.pdf

Item 4. Report on Historic Arrangement to Station a Staff Person in Southern Marin During all Storm Events

At the March Advisory Board meeting, the Advisory Board inquired about historical stationing of a flood control staff person in Southern Marin during significant storm events. The following is a summary of research on this by staff.

This was implemented for several years as a means of improving emergency response by prepositioning of personnel and equipment/materials in Southern Marin prior to major storm events. The staffing cost was split between Zones 3 and 4. Pump failures had been occurring at a higher rate in the area than at the District's facilities in northern Marin. Factors that led to the increased failures have since largely been ameliorated. These factors include:

- The high water trigger systems (floats) were very prone to getting hung up and preventing the pumps from turning on. This was corrected by installing the water level sensors currently in place. Note: Schaaf & Wheeler are recommending, as a short-term upgrade, to install a float system as a back-up control system at Cove Pump Station in case of loss of power (see table in Item 6).
- Pumps and motors were tested every summer for a limited period of time, and thus it was difficult to predict if they would continue working during a larger

Marin County Flood Control and Water Conservation District

storm event. This situation was improved by purchasing a machine that allows the pumps to be tested under load for as long as appropriate.

- The prior pump maintenance protocol was mostly reactive, with repairs as needed. Failures were more likely to occur when they were being stressed during an event. Since then, the District has instituted a preventative Maintenance Program which rebuilds/replaces every pump in every station every 6 years.

The frequency of pump station failures in Southern Marin have since decreased significantly. This past winter a staff person was staged specifically at Cove Pump Station during periods of potentially elevated flood risk.

Item 5. Expenditures Report for FYs 2011-2016

At the 3/10/16 meeting the Advisory Board requested an expenditures report from the current fiscal year and prior fiscal years. Below is a summary of expenditures and fund balance:

Fiscal Year	Fund Ending Balance*	STAFF LABOR		SERVICES AND SUPPLIES	
		Budget	Expenditures	Budget	Expenditures
15/16	N/A	\$430,207	\$116,939 as of 12/31/15	\$565,701	\$381,335 as of 5/3/16
14/15	\$2,729,009	\$454,984	\$251,187	\$199,136	\$72,582
13/14	\$2,581,348	\$468,000	\$281,906	\$174,080	\$62,516
12/13	\$2,026,466**	\$473,000	\$348,050	\$230,030	\$50,244
11/12	\$2,135,060	\$517,000	\$363,804	\$260,405	\$64,656
10/11	\$2,022,914	\$409,575	\$328,846	\$197,900	\$87,795

35 individuals worked in Zone 4 the first half of the current fiscal year, removing sediment, debris, and vegetation from creeks and levees, maintaining tide gates, attending to pump stations, managing the pump station evaluation contract, administering advisory board meetings, preparing outreach materials, and responding to inquiries and interrogatories.

*unrestricted funds.

**This year also had a \$244,740 transfer out of the fund for 1) the Watershed Program contribution and 2) a shared contract (with County and Sonoma-Marín Area Rail Transit) for a Regional Water Quality Control Board permit staffer.

Item 6. Cove Stormwater Pump Station Presentation

***Note: Due to pending litigation, staff is unable to discuss or comment on matters which may be related to flooding which occurred in the vicinity of the Cove Shopping Center on December 3, 2014.**

Marin County Flood Control and Water Conservation District

The Cove Stormwater Pump Station Evaluation is nearly complete, pending a public comment period that will begin on May 23 and end on June 24. The draft report will be posted on May 23 and the final report will be posted on July 8 at http://www.marinwatersheds.org/southern_marin.html and an email notification will be sent to those on the Zone 4 Advisory Board meeting notification distribution list.

The District's consultant preparing the evaluation report will present a summary of the report at this advisory board meeting and will be available for questions and comments. Following the presentation, the District will ask the advisory board to provide initial direction on priorities and timelines of the following potential projects:

Project Name	Estimated Cost
Metal Pipe Replacements	\$250,000
Short Term Pump Station Upgrades (replace PLC and MCC, install back-up control system, pump and roof anchorage*, SCADA, and Arc Flash Labels, Replace Meter/Main Breaker, remove Pump #4, modify wet well and pump set levels)	\$430,000
10-Year or 25-Year level-of-service upgrades to the road drainage system	\$880,000 / \$990,000
Long Term Pump Station Upgrades, Existing or 100-Year level-of-service w/ 25-year upgrades to road drainage system (replace MCC, install backup generator, new pumps and tubes, electrical upgrades, modify pump bays, add wet well access hatch, install automatic trash rack screen)	\$1,750,000 to \$2,330,000
Floodwall adjacent to Pump Station at East Creek	\$140,000
Automatic Trash Rack Screen	\$440,000

* Note: following the March advisory board meeting, roof and pump anchorage was installed.

Definitions of Acronyms:

PLC - programmable logic controller

MCC - motor control center

SCADA - supervisory control and data acquisition

Item 7. Schedule Next Meeting

Per the Zone 4 bylaws, the next annual meeting is scheduled for March 9, 2017.

Advisory Board and staff will discuss preferred interim meeting times based on next steps following the Cove Pump Station Evaluation and any special requests.