

## **FLOOD CONTROL ZONE 9 ADVISORY BOARD MEETING**

**JUNE 12, 2017**

**MARIN ART AND GARDEN STUDIO, ROSS**

### **STAFF REPORT**

#### **Item 1. Approval of Meeting Minutes for May 16, 2017**

**Action by Board:** Advisory Board members will review meeting minutes from the May 16, 2017 meeting, make corrections and approve the minutes as corrected.

#### **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. Department of Water Resources IRWM Prop 1E Grant Project (Phoenix Lake IRWM Retrofit Project)**

The original Phoenix Lake IRWM Project scope was described at the May 16<sup>th</sup>, 2017 Advisory Board meeting as being infeasible with the schedule and funding constraints for the grant funds, see [presentation](#) and [Staff Report Agenda Item 4](#) from the last May 16<sup>th</sup> meeting available online: [http://www.marinwatersheds.org/fz\\_advisory.html#zone9](http://www.marinwatersheds.org/fz_advisory.html#zone9)

Because of cost and schedule concerns discussed in the last meeting, District staff is continuing to evaluate other priority projects which may use the Department of Water Resources (DWR) grant awarded to the Phoenix Lake IRWM Project in the amount of \$7,661,000. Critical deadlines to retain the grant funding through DWR includes preparation and submittal of grant agreement amendment application by June 16, and execution of a formal grant agreement amendment with DWR no later than August 31, 2016. To meet a June 30, 2020 project completion deadline, the California Environmental Quality Act process for the project would need to be completed by summer of 2018.

District staff will present updated details on alternatives for the migration of the DWR IRWM Proposition 1E Grant and will then request the Advisory Board proceed in making a recommendation for a preferred alternative.

**Recommend Action:** Recommend a preferred alternative for the migration of the Dept. of Water Resources IRWM Prop 1E Grant (previously named Phoenix Lake IRWM Project).

#### **Item 4. Annual Budget and Work Plan (Fiscal Year 2017-18)**

Although this Agenda item was included in the last May 16<sup>th</sup>, 2017 Advisory Board staff report, due to time constraints it was postponed until the current meeting today. Minor changes have been made to the proposed budget since the May 16<sup>th</sup> version.

Changes made to the proposed June 12, 2017 draft FY 17/18 Zone 9 budget, enclosed in current Staff Report, compared to May 16<sup>th</sup>, 2017 draft FY 17/18 budget packet includes:

- Addition of \$40,000 into 'FY 16/17 Actual+Estimate' Professional Service category for a new total of \$40,000 for Lower Corte Madera Creek Improvements for Sediment Sampling in Corte Madera Creek

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

- Addition of \$100,000 into 'FY 17/18 Budget' within Program Activities for Hydrologic and Hydraulic modeling support as Professional Service category for a new total of \$275,000
- Reallocate \$290,000 from 'FY 17/18 Budget' to 'FY 16/17 Actual+Estimate' for a new total of \$340,000 in USACE Unit 2, 3, and 4 Project as Implementation Category
- Additional of \$54,000 for new total of \$60,000 in 'FY 17/18 Budget' to continue analysis of Morningside/Sleepy Hollow Feasibility Study, including creek assessment for flood barriers and Hydraulic and Hydrologic modeling
- Addition of \$10,000 into 'FY 17/18 Budget' under Loma Alta Flood Diversion Storage Basin to continue assessment of feasibility of project site

The following information was included in prior May 16, 2017 Staff Report and is included as reference with a recommended action:

The District met with a member of the Ad-Hoc Budget Sub-Committee on Wednesday April 19, 2017 to discuss formatting, presentation and accounting information provided as part of the Fiscal Year 17/18 budget and Fiscal Year 17/18 Work Plan package. The Budget and Work Plan documents incorporate feedback received by the Ad-Hoc Budget Sub-Committee. District staff recommends that the chair dissolve the current makeup of the Ad-Hoc Sub-Committee. If needed, a future Ad-Hoc Sub-Committee can be created, at the discretion of the chair, such as to fulfill a specific short-lived function addressing a discrete matter.

The Zone 9 Budget for Fiscal Year 2017-2018 (begins July 1, 2017 and ends June 30, 2018) will be presented to the Board of Supervisors at a hearing this summer. Staff will present the enclosed proposed budget to the Advisory Board for review and their recommendation to the Board of Supervisors. This budget assumes a 3% increase in Ross Valley Storm Drainage Fee Amounts in Fiscal Year 2017/18.

**Recommended Action:** Recommend that the Board of Supervisors approve the budget for Fiscal Year 2017-18, including the annual 3% Drainage Fee increase, and the Chair dissolve the Flood Control Zone 9 Ad-Hoc Budget Sub-Committee.

**Item 5. Confirm Next Meeting Date on Tuesday September 19, 2017 & Adjourn**

Staff recommends resuming the quarterly schedule with the following Flood Control Zone 9 Advisory Board Meeting scheduled on Tuesday, September 19<sup>th</sup>, 2017, at 7:00 pm.

	FY 16/17 Budget <sup>1</sup>	FY 16/17 Actual+Est. <sup>2</sup>	FY 17/18 Budget <sup>3</sup>
<b>PROGRAM REVENUE &amp; BUDGET SUMMARY<sup>4</sup></b>			
<b>Total Program Funds Available</b>			
<b>Beginning Fund Balances July 1, 2017</b>		\$14,012,498	
<i>FY15/16 unspent, previously encumbered funds:</i>		(\$1,748,946)	
<b>Estimated Available Fund Balance Total</b>		<b>\$12,263,551</b>	<b>\$4,997,833</b>
<b>Total Program Management Expenses (by Major Budget Category)</b>			
Professional and Trade Services Total:	\$4,003,599	\$3,867,009	\$1,395,800
Capital Assets/Real Estate Acquisition Total:	\$3,000,000	\$3,800,000	\$1,800,000
Implementation Total:	\$199,285	\$738,000	\$546,250
County Salary and Overhead Total:	\$1,393,777	\$1,584,104	\$1,658,746
<b>Estimated Ross Valley Flood Risk Reduction Program Total<sup>5</sup></b>	<b>\$8,596,661</b>	<b>\$9,989,113</b>	<b>\$5,400,796</b>
<b>Total Program Revenue<sup>6</sup></b>			
Watershed Fee (Assumes 3% Increase per Year)		\$2,515,506	\$2,590,971
Taxes		\$199,610	\$199,610
Revenues from Use of Money and Property		\$7,253	\$7,253
Intergovernmental Revenues		\$1,025	\$1,025
Miscellaneous Revenues		\$0	\$0
<b>Estimated Program Revenue Total*</b>		<b>\$2,723,394</b>	<b>\$2,798,859</b>
<b>Estimated Fund Ending Balance June 30</b>		<b>\$4,997,833</b>	<b>\$2,395,896</b>

\*NOTE: Department of Water Resources Grants (San Anselmo Flood Risk Reduction Project, Phoenix Lake IRWM and Local Levee Assistance Program) revenue are not yet reflected in the Program Budget as project accounts and administration are currently under development. Grant fund revenue will be included in subsequent budgets and the Program Annual Report (to be published in Fall 2017)

All public meetings and events sponsored or conducted by the County of Marin are held in accessible sites. Requests for accommodations may be made by calling (415) 473-4381 (voice/TTY) or 711 for the California Relay Service or e-mailing disabilityaccess@marincounty.org at least four work days in advance of the event. Copies of documents are available in alternative formats, upon written request.

	FY 16/17 Budget <sup>1</sup>	FY 16/17 Actual+Est. <sup>2</sup>	FY 17/18 Budget <sup>3</sup>
<b>ROSS VALLEY FLOOD RISK REDUCTION PROGRAM EXPENDITURE SUMMARY<sup>5</sup></b>			
<b>Capital Improvement Projects</b>			
<i>Project Including Multiple Flood Program Elements:</i>			
Lower Corte Madera Creek Improvement Project <sup>7</sup>	\$395,000	\$102,000	\$226,000
Department of Water Resources IRWM Prop 1E Grant Project (Phoenix Lake IRWM Retrofit Project) <sup>8</sup>	\$2,121,299	\$2,034,000	\$1,015,000
San Anselmo Flood Risk Reduction Project <sup>9</sup>	\$847,000	\$1,705,585	\$2,065,000
U.S. Army Corps of Engineers Units 2, 3, and 4 Project <sup>10</sup>	\$281,403	\$636,000	\$260,000
<b>Bridge Projects:</b>			
634-636 San Anselmo Ave - Building Bridge #2 (San Anselmo) <sup>11</sup>	\$58,500	\$45,000	
Azalea Ave (Fairfax) <sup>12</sup>	\$13,000	\$13,000	\$49,000
Madrone Ave (San Anselmo) <sup>13</sup>	\$13,000	\$28,000	\$70,375
Nokomis Ave (San Anselmo) <sup>14</sup>	\$13,000	\$26,000	\$50,375
Sleepy Hollow Creek/Morningside Feasibility <sup>15</sup>	\$10,000	\$55,324	\$60,000
Sycamore/Center Blvd (San Anselmo) <sup>16</sup>	\$13,000	\$50,000	\$56,000
Winship Ave (Ross) <sup>17</sup>	\$13,000	\$18,000	\$42,000
<b>Flood Diversion Storage Basins:</b>			
Deer Park Dual-Use Facility <sup>18</sup>	\$5,000	\$5,000	\$0
Former Sunnyside Nursery Growing Grounds <sup>19</sup>	\$3,225,000	\$3,874,000	\$0
Lefty Gomez Field Dual-Use Facility <sup>20</sup>	\$87,000	\$0	\$0
Loma Alta Dual-Use Facility <sup>21</sup>	\$7,000	\$5,000	\$10,000
<b>Capital Improvement Projects Total:</b>	<b>\$7,102,202</b>	<b>\$8,596,909</b>	<b>\$3,903,750</b>
<b>Program Management</b>			
Program Activities <sup>22</sup>	\$1,077,905	\$858,605	\$1,028,110
Administration	\$67,929	\$72,629	\$77,136
Operation and Maintenance	\$348,625	\$460,970	\$391,800
<b>Program Management Total:</b>	<b>\$1,494,459</b>	<b>\$1,392,204</b>	<b>\$1,497,046</b>
<b>Ross Valley Flood Risk Reduction Program Total:</b>	<b>\$8,596,661</b>	<b>\$9,989,113</b>	<b>\$5,400,796</b>

FY 16/17      FY 16/17      FY 17/18  
 Budget<sup>1</sup>      Actual+Est.<sup>2</sup>      Budget<sup>3</sup>

**PROGRAM BUDGET DETAILS**

**Capital Improvement Projects**

**Projects Incorporating Multiple Program Elements**

**Lower Corte Madera Creek Improvements<sup>7</sup>**

Professional & Trade Services Subtotal:	\$325,000	\$40,000	\$135,000
Implementation Subtotal:	\$20,000	\$42,000	\$36,000
County Salaries & Overhead Subtotal:	\$50,000	\$20,000	\$55,000
<b>ESTIMATED TOTAL:</b>	<b>\$395,000</b>	<b>\$102,000</b>	<b>\$226,000</b>

\*NOTE: Budget only shows local cost share and does not include participating costs through the pending DWR LOLE grant

**Department of Water Resources IRWM Prop 1E Grant - Phoenix Lake IRWM Retrofit Project<sup>8</sup>**

Professional & Trade Services Subtotal:	\$2,025,299	\$1,850,000	\$800,000
Implementation Subtotal:	\$0	\$0	\$0
County Salaries & Overhead Subtotal:	\$96,000	\$184,000	\$215,000
<b>ESTIMATED TOTAL:</b>	<b>\$2,121,299</b>	<b>\$2,034,000</b>	<b>\$1,015,000</b>

**San Anselmo Flood Risk Reduction Project<sup>9</sup>**

Professional & Trade Services Subtotal:	\$800,000	\$1,519,585	\$0
Capital Assets/Real Estate Acquisition Subtotal:	\$0	\$0	\$1,800,000
Implementation Subtotal:	\$0	\$0	\$0
County Salaries & Overhead Subtotal:	\$47,000	\$186,000	\$265,000
<b>ESTIMATED TOTAL:</b>	<b>\$847,000</b>	<b>\$1,705,585</b>	<b>\$2,065,000</b>

\*NOTE: DWR Prop 1E grant reimbursement will start after District expenses exceed \$8.7M

**U.S. Army Corps of Engineers Units 2, 3 and 4<sup>10</sup>**

Professional & Trade Services Subtotal:	\$60,000	\$151,000	\$50,000
Implementation Subtotal:	\$0	\$340,000	\$0
County Salaries & Overhead Subtotal:	\$221,403	\$145,000	\$210,000
<b>ESTIMATED TOTAL*:</b>	<b>\$281,403</b>	<b>\$636,000</b>	<b>\$260,000</b>

\*Note: \$400,000 in federal funds was programmed in the 2014 federal work plan by the U.S. Army Corps of Engineers. \$500,000 in federal funds was approved within 2015 federal work plan by Corps. "FY 16/17 Actual" project charges to be journaled from Fund 3290 (FCZ9 Fund) to Fund 3280 (FCZ9A Fund) until FCZ9A fund balance is depleted.

Pending DWR LOLE grant reimbursements expected to cover portion of Zone 9 15/16-17/18 project expenses and not reflected in this budget

	FY 16/17 Budget <sup>1</sup>	FY 16/17 Actual+Est. <sup>2</sup>	FY 17/18 Budget <sup>3</sup>
<b>PROGRAM BUDGET DETAILS (Continued)</b>			
<b>Capital Improvement Projects</b>			
<b>Bridge Projects (Modifications, Replacements, and/or Removals)</b>			
<b>Azalea Ave (Fairfax)<sup>12</sup></b>			
Professional & Trade Services Subtotal:	\$0	\$0	\$0
Implementation Subtotal:	\$0	\$10,000	\$40,000
County Salaries & Benefits Subtotal:	\$13,000	\$3,000	\$9,000
<b>ESTIMATED TOTAL:</b>	<b>\$13,000</b>	<b>\$13,000</b>	<b>\$49,000</b>
<b>634-636 San Anselmo Ave - Building Bridge #2 (San Anselmo)-See San Anselmo Flood Risk Red. Project)<sup>11</sup></b>			
Professional & Trade Services Subtotal:	\$10,000	\$0	
Implementation Subtotal:	\$25,000	\$25,000	
County Salaries & Benefits Subtotal:	\$23,500	\$20,000	
<b>ESTIMATED TOTAL:</b>	<b>\$58,500</b>	<b>\$45,000</b>	
*NOTE: FY 17/18 Expenses and Encumbrances moved to the San Anselmo Flood Risk Reduction Project			
<b>Madrone Ave (San Anselmo)<sup>13</sup></b>			
Professional & Trade Services Subtotal:	\$0	\$0	\$0
Implementation Subtotal:	\$0	\$24,000	\$62,375
County Salaries & Overhead Subtotal:	\$13,000	\$4,000	\$8,000
<b>ESTIMATED TOTAL:</b>	<b>\$13,000</b>	<b>\$28,000</b>	<b>\$70,375</b>
<b>Nokomis Ave (San Anselmo)<sup>14</sup></b>			
Professional & Trade Services Subtotal:	\$0	\$0	\$0
Implementation Subtotal:	\$0	\$22,000	\$42,375
County Salaries & Overhead Subtotal:	\$13,000	\$4,000	\$8,000
<b>ESTIMATED TOTAL:</b>	<b>\$13,000</b>	<b>\$26,000</b>	<b>\$50,375</b>
<b>Sleepy Hollow Creek/Morningside Feasibility Study (San Anselmo)<sup>15</sup></b>			
Professional & Trade Services Subtotal:	\$0	\$4,324	\$50,000
Implementation Subtotal:	\$0	\$0	\$0
County Salaries & Overhead Subtotal:	\$10,000	\$51,000	\$10,000
<b>ESTIMATED TOTAL:</b>	<b>\$10,000</b>	<b>\$55,324</b>	<b>\$60,000</b>
<b>Sycamore/Center Blvd (San Anselmo)<sup>16</sup></b>			
Professional & Trade Services Subtotal:	\$0	\$0	\$0
Implementation Subtotal:	\$0	\$48,000	\$48,000
County Salaries & Overhead Subtotal:	\$13,000	\$2,000	\$8,000
<b>ESTIMATED TOTAL:</b>	<b>\$13,000</b>	<b>\$50,000</b>	<b>\$56,000</b>
<b>Winship Avenue (Ross)<sup>17</sup></b>			
Professional & Trade Services Subtotal:	\$0	\$0	\$0
Implementation Subtotal:	\$0	\$15,000	\$34,000
County Salaries & Overhead Subtotal:	\$13,000	\$3,000	\$8,000
<b>ESTIMATED TOTAL:</b>	<b>\$13,000</b>	<b>\$18,000</b>	<b>\$42,000</b>

FY 16/17      FY 16/17      FY 17/18  
 Budget<sup>1</sup>      Actual+Est.<sup>2</sup>      Budget<sup>3</sup>

**PROGRAM BUDGET DETAILS (Continued)**

**Capital Improvement Projects**

**Flood Diversion Storage Basins**

**Deer Park Dual-Use Facility<sup>18</sup>**

Professional & Trade Services Subtotal:	\$0	\$0	\$0
Implementation Subtotal:	\$0	\$0	\$0
County Salaries & Overhead Subtotal:	\$5,000	\$5,000	\$0
<b>ESTIMATED TOTAL:</b>	<b>\$5,000</b>	<b>\$5,000</b>	<b>\$0</b>

**Former Sunnyside Nursery Growing Grounds<sup>19</sup>**

*(Refer to San Anselmo Flood Risk Reduction Project for FY 17/18 Proposed)*

Professional & Trade Services Subtotal:	\$160,000	\$0	
Capital Assets/Real Estate Acquisition Subtotal:	\$3,000,000	\$3,800,000	
Implementation Subtotal:	\$0	\$18,000	
County Salaries & Overhead Subtotal:	\$65,000	\$56,000	
<b>ESTIMATED TOTAL*:</b>	<b>\$3,225,000</b>	<b>\$3,874,000</b>	

\*NOTE: FY 17/18 Expenses and Encumbrances moved to the San Anselmo Flood Risk Reduction Project

**Lefty Gomez Field Dual-Use Facility<sup>20</sup>**

Professional & Trade Services Subtotal:	\$62,000	\$0	\$0
Implementation Subtotal:	\$20,000	\$0	\$0
County Salaries & Overhead Subtotal:	\$5,000	\$0	\$0
<b>ESTIMATED TOTAL:</b>	<b>\$87,000</b>	<b>\$0</b>	<b>\$0</b>

**Loma Alta Dual-Use Facility<sup>21</sup>**

Professional & Trade Services Subtotal:	\$2,000	\$0	\$0
Implementation Subtotal:	\$0	\$0	\$0
County Salaries & Overhead Subtotal:	\$5,000	\$5,000	\$10,000
<b>ESTIMATED TOTAL:</b>	<b>\$7,000</b>	<b>\$5,000</b>	<b>\$10,000</b>

	FY 16/17 Budget <sup>1</sup>	FY 16/17 Actual+Est. <sup>2</sup>	FY 17/18 Budget <sup>3</sup>
<b>PROGRAM BUDGET DETAILS (Continued)</b>			
<b>Program Management</b>			
<b>Program Activities<sup>22*</sup></b>			
Professional & Trade Services Subtotal:	\$486,500	\$160,000	\$275,000
Implementation Subtotal:	\$93,500	\$118,500	\$227,100
County Salaries & Overhead Subtotal:	\$497,905.00	\$580,105.00	\$526,010.00
<b>ESTIMATED TOTAL:</b>	<b>\$1,077,905</b>	<b>\$858,605</b>	<b>\$1,028,110</b>

**\*NOTE: Expenses include the following Program Activities:**

**General Program Management:** Program Implementation, Grant Acquisition and Support Services, Finance Strategy, Hydrology Support, and Public Engagement and Outreach

**Flood Preparedness Program:** Ross Valley Flood Preparedness Pilot, Home Elevation Grant-Property Owner Support and Elevation Program Survey

**Creek Program:** Creek Conveyance & Habitat Maintenance (Incorp. Areas), Regulatory Agency and Permitting Support, Creek Assessments, Creek Maintenance Agreements with City/Towns and Rain/Stream Gage Program & Alert System<sup>21</sup>

<b>Administration</b>			
Implementation Subtotal:	\$18,200	\$22,900	\$26,400
County Salaries & Overhead Subtotal:	\$49,729	\$49,729	\$50,736
<b>ESTIMATED TOTAL*:</b>	<b>\$67,929</b>	<b>\$72,629</b>	<b>\$77,136</b>

\*NOTE: Administration charges can consist of one or more of the following: Office Supplies, Misc. Supplies, Communication, Professional Development, Travel, Rent & Operating Lease, Dues & Membership

<b>Operation and Maintenance</b>			
Professional and Trade Services Subtotal:	\$72,800	\$142,100	\$85,800
Implementation Subtotal:	\$22,585	\$52,600	\$30,000
County Salaries & Overhead Subtotal:	\$253,240	\$266,270	\$276,000
<b>ESTIMATED TOTAL:</b>	<b>\$348,625</b>	<b>\$460,970</b>	<b>\$391,800</b>



DRAFT - Ross Valley Flood Control Zone 9 Fiscal Year 17/18 Budget Planning Worksheet - DRAFT

<b>Exhibit A</b>	
<b>Assumptions and Additional Notes For FY 17/18 Budget Document</b>	
1	"FY 16/17 Budget" refers to budget recommended by Flood Control Zone 9 Advisory Board on April 19, 2016. See FY 16/17 budget document provided in Staff Report at following file path link: <a href="http://www.marinwatersheds.org/documents/FCZ9ABStaffReport-Budget4-19-2016_FINAL.pdf">http://www.marinwatersheds.org/documents/FCZ9ABStaffReport-Budget4-19-2016_FINAL.pdf</a>
2	"FY 16/17 Actual+Est." refers to 'Estimated Actual Expenditures' partway through Fiscal Year 16/17 plus 'Estimated Expenditures' for the remainder of Fiscal Year 16/17.
3	"FY 17/18 Budget" is the proposed budget for July 1, 2017 through June 30, 2018 and does not include budget recommended in a prior fiscal year.
4	"Program Revenue & Budget Summary" shows starting and ending balance which are only shown within "FY 16/17 Actual+Est." and "FY 17/18 Budget" columns. This information shown is subject to change. Phoenix Lake project currently resides outside of Fund 3280 and Fund 3290 but is reflected in the beginning balance information and continues to draw down from \$2.1 million transfer to the project made in FY 12/13 from Fund 3290 and future transfers.
5	"Estimated Ross Valley Flood Risk Reduction Program Totals" do not provide budget allocations to proceed with detention basin sites with zero fee allocated in the current "Ross Valley Watershed Flood Risk Reduction Program Costs and Revenues Estimates" spreadsheet except for Loma Alta Dual-Use Facility.
6	a) Revenue, aside from Storm Drainage Fee which is assumed to increase 3% per year and subject to annual public hearing and approval by the Board of Supervisors, is assumed to remain as in the prior fiscal year revenue amount. b) Department of Water Resources Grants (San Anselmo Flood Risk Reduction Project, Phoenix Lake IRWM and Local Levee Assistance Program) revenue are not yet reflected in the Program Budget as project accounts and administration are currently under development. Grant fund revenue will be included in subsequent budgets and the Program Annual Report (to be published in Fall 2017) c) DWR IRWM Prop 1E Grant Project (Phoenix Lake IRWM) included \$2.1 million in "anticipated future grant revenue" from the Proposition 1E grant in FY 2012/13 when the project account was created for feasibility, design and environmental review efforts, therefore revenue shown in "FY 16/17 Budget", "FY 16/17 Actual+Est.", and "FY 17/18 Budget" will not include any revenue received to date because it was already accounted for in FY 2012/13.
7	Lower Corte Madera Creek Improvement Project - Pump Station and Hillview Drainage Improvements Memorandum of Agreement for first phase is approved in "FY 16/17 Actual+Est." by the City Council and Marin County Flood Control and Water Conservation District Board of Supervisors, and NEPA funded outside of FCZ9. Phase 1 Concept Design is completed for Hillview Drainage Improvement in FY 16/17 or early FY 17/18 and Phase 2 proceeds in FY 17/18. "FY 16/17 Actual+Est." assumes no additional funding by Zone is provided for geomorphic dredge study. "FY 17/18 Budget" assumes \$0 for plans, specifications, and environmental permits to dredge the Corte Madera Creek channel if needed, and \$135,000 for Local Levee Evaluation assuming Department of Water Resources grant is awarded and executed allowing for grant reimbursable work in FY 17/18. Grant includes \$20,000 for bathymetric survey.
8	DWR IRWM Prop 1E Grant Project (Phoenix Lake IRWM Project) - Project scope may shift due to changes in feasibility outlined in the original DWR Grant Application. The new project scope was not yet defined as of the approval of the FY17/18 budget and thus estimated actuals and FY17/18 budget may change with approval by the Board or Supervisors. The FY16/17 to FY17/18 budgets reflect expenses for the Program EIR and preliminary design of the existing project scope.
9	San Anselmo Flood Risk Reduction Project - assumes EIR and preliminary design will occur during FY16/17 to FY17/18 and final design will occur during FY17/18 to FY18/19.

**Exhibit A (CONTINUED)**

10	U.S. Army Corps of Engineers Units 2, 3 and 4 - Note: budget shown is based on 3x3 waiver approval and split between misc. services (cash to USACE and other Work-in -Kind) and in-house costs. Details of split to be determined with USACE when (or if) work plan funds are approved with current assumption that \$340,000 cash payment provided in FY 16/17 (Actual+Est.) and will continue to be used within FY 17/18 fiscal year. Note: \$400,000 in federal funds programmed in the 2014 federal work plan by USACE. \$500,000 in federal funds approved within USACE 2015 federal work plan. "FY 16/17 Actuals+Est.." project charges to be journaled from Fund 3290 (FCZ9 Fund) to Fund 3280 (FCZ9A Fund) until FCZ9A fund balance is depleted. Pending DWR LOLE grant reimbursements expected to cover portion of Zone 9 FY 15/16-17/18 project expenses and not reflected in this budget
11	634-636 San Anselmo Ave (Building Bridge #2) - Estimated FY 17/18 Budget for this program element is reflected under the San Anselmo Flood Risk Reduction Project. No FEMA grant received as of 5/2/17 but part of San Anselmo Flood Risk Reduction Project grant migration
12	Azalea Avenue Bridge Replacement - PO for PE phase already encumbered (\$65,000)
13	Madrone Avenue Bridge Replacement - PO for PE phase already encumbered (\$159,617)
14	Nokomis Avenue Bridge Replacement - PO for PE phase already encumbered (\$84,875)
15	Sleepy Hollow Creek/Morningside Feasibility Study - Continue to assess feasibility of project including creek assessment of flood barriers and H&H modeling. Continue seeking grant funding sources for project.
16	Sycamore/Center Blvd Bridge Replacement - PO for PE phase already encumbered (\$380,332)
17	Winship Avenue Bridge Replacement - PO for PE phase already encumbered (\$83,735)
18	Deer Park Dual-Use Facility is part of the Program EIR.
19	Former Sunnyside Nursery Growing Grounds - assumes project will become part of the San Anselmo Flood Risk Reduction Project.
20	Lefty Gomez Field Dual-Use Facility is part of the Program EIR.
21	Loma Alta Dual-Use Facility - Continue assessment of feasibility of project site. Is part of the Program EIR.
22	Program Activities, Rain/Stream Gage Program & Alert System - Zone 9 contributions from Department of Water Resources Flood Emergency Response Planning grant agreement are not included in this budget. 9 gauges are maintained by Flood Control in "FY 17/18 Budget". New Tide Gauge and Camera installed in FY 17/18. Tide gauge installed/maintained by USGS with funding agreement for installation and first year of maintenance costs. Program activities description included in FY 17/18 work plan.

**Exhibit B**

**FY2017-18 Ross Valley Watershed Flood Risk Reduction Program Work Plan Summary**

*NOTE: Work Plan Summary includes estimated expenses for Capital Improvement Project and Program Management Activities expected to be incurred in FY2017/18. Estimates to do not reflect previously encumbered funds that are reflected in the Program FY17/18 Budget*

	<b>Project/ Program Activity</b>	<b>Project/Program Activity Description</b>	<b>Lead Agency</b>	<b>FY17-18 Milestone</b>	<b>Estimated FY 17/18 Expenditure<sup>1</sup></b>	<b>Funding Source</b>
<b>Capital Improvement Projects</b>						
<b>Projects Incorporating Multiple Program Elements</b>						
1	Lower Corte Madera Creek Improvement Project	Remove accumulated sediment from lower sections of Corte Madera Creek, Larkspur, Greenbrae. Add storm drain pump station and storm drain line in Larkspur, Hillview neighborhood. Evaluate existing levees along Corte Madera Creek and perform Kentfield Gardens drainage study.	Flood Control District, City of Larkspur	1) Sign DWR grant agreement 2) Bathymetric and land survey 3) H&H analyses of channel and geotechnical exploration at locations along creek 4) Geomorphic Dredge Study Report	\$266,000	DWR Grant, FZ9 Watershed Fee, Cal Trans bridge funding to City
2	DWR Grant Migration Project (Phoenix Lake IRWM Retrofit)	Phoenix Lake Integrated Regional Water Management (IRWM) Retrofit Project currently undergoing a grant migration originally involved modifying the Phoenix Lake dam, spillway, outlet works and other nearby facilities to reduce flood risk. Increase water storage, improve water quality, improve the ecosystem and improve public amenities in and around Phoenix Lake.	Flood Control District	1) Finalize DWR Grant Scope Amendment 2) Complete Program EIR 3) Finalize Project Description and Complete Project EIR (CEQA) 4) Conduct Public Engagement	\$1,684,299	DWR Grant, FZ9 Watershed Fee

	Project/ Program Activity	Project/Program Activity Description	Lead Agency	FY17-18 Milestone	Estimated FY 17/18 Expenditure <sup>1</sup>	Funding Source
<b>Projects Incorporating Multiple Program Elements (continued)</b>						
3	San Anselmo Flood Risk Reduction Project	Considers program elements including former Sunnyside Nursery Site Detention Basin, removal of buildings over San Anselmo Creek, creek improvements from downtown San Anselmo to Town of Ross and bike lane on Sir Francis Drake Blvd along Form Nursery site frontage.	Flood Control District	1) Complete Project EIR 2) Finalize Project Description 3) Conduct Community Meetings 4) Complete Property Acquisition if project selected through CEQA	\$3,469,585	DWR Grant, FZ9 Watershed Fee
4	U.S. Army Corps of Engineers - Corte Madera Creek Units 2, 3 & 4 Project	Improve existing concrete and earthen channel from Sir Francis Drake Blvd Bridge in Ross extending to downstream end of concrete channel. Measures may include removal of existing fish ladder, smooth transition at upstream end of concert channel, remove constrictions, top of bank and offset floodwalls, bypass channels and creek restoration.	US Army Corps of Engineers	1) Complete analysis of alternatives & hold public meetings 2) Determine alternative with best cost: benefit ratio (NED plan) and/or Locally Preferred Plan to decide on Tentatively Selected Plan (TSP). 3) TSP to USACE Headquarters and reach Agency Decision Milestone	\$650,000	US Army Corp of Engineers, DWR Grant, FZ9 Watershed Fee, Other Zone 9a Funds

	Project/ Program Activity	Project/Program Activity Description	Lead Agency	FY17-18 Milestone	Estimated FY 17/18 Expenditure <sup>1</sup>	Funding Source
<b>Bridge Projects (Modifications, Replacements, and/or Removals)</b>						
5	Azalea Ave Bridge Replacement	Removal and replacement of bridge over Fairfax Creek in Town of Fairfax	Town of Fairfax	1) Complete Concept Design 2) Initiate CEQA 3) Conduct Public Engagement	\$49,000	Cal Trans. Grant, FZ9 Watershed Fee
6	Madrone Ave Bridge Replacement	Removal and replacement of Madrone Ave Bridge over San Anselmo Creek in Town of San Anselmo	Town of San Anselmo	1) Complete CEQA 2) Complete 30% Design 3) Conduct Public Engagement	\$70,375	Cal Trans. Grant, FZ9 Watershed Fee
7	Nokomis Ave Bridge Replacement	Removal and replacement of Nokomis Ave Bridge over San Anselmo Creek in Town of San Anselmo	Town of San Anselmo	1) Complete CEQA 2) Complete 30% Design 3) Conduct Public Engagement	\$50,375	Cal Trans. Grant, FZ9 Watershed Fee
8	Morningside/Sleepy Hollow Creek Feasibility Study	Develop a feasibility level hydraulic study for 10-year Work plan measures for Sleepy Hollow Creek in the Morningside neighborhood that would provide a 25-year flood level of protection.	Flood Control District	1) Finalize Study 2) Creek assessment for flood barriers 3) Additional H&H modeling	\$60,000	FZ9 Watershed Fee
9	Sycamore Ave (Center Blvd) Bridge Replacement	Removal of bridge at Sycamore Ave and replacement with a new bridge at Center Blvd over San Anselmo Creek in Town of San Anselmo	Town of San Anselmo	1) Acquire Caltrans funding to proceed with Preliminary 2) Initiate CEQA	\$56,000	Cal Trans. Grant, FZ9 Watershed Fee
10	Winship Ave Bridge Replacement	Removal and replacement of Winship Ave Bridge over San Anselmo Creek in Town of Ross	Town of Ross	1) Complete CEQA 2) Complete 30% Design 3) Conduct Public Engagement	\$42,000	Cal Trans. Grant, FZ9 Watershed Fee

	Project/ Program Activity	Project/Program Activity Description	Lead Agency	FY17-18 Milestone	Estimated FY 17/18 Expenditure <sup>1</sup>	Funding Source
<b>Flood Diversion Storage Basins</b>						
11	Loma Alta Flood Diversion Storage Basin	Convert 3-acres of existing Loma Alta open space area into a dual-use facility that will temporarily detain high creek flows during infrequent, large flood events. The project could also include improvements to the existing trail network at the site.	Flood Control District	1) Continue to assess feasibility of project site	\$10,000	FZ9 Watershed Fee
12	Former Sunnyside Nursery Growing Grounds	<i>Basin is a program element of the San Anselmo Flood Risk Reduction Project</i>				
<b>Program Management</b>						
13	Ross Valley Flood Preparedness Support Pilot	1) Work closely with program partners to identify, frequent flooding hotspots and priorities; develop localized solutions; and implement where feasible and as funds allow. Potential solutions could include flood barriers/walls, flood proofing, etc. 2) Provide Community Rating System (CRS) Support to Ross Valley municipalities and in pursuit of gaining flood insurance premium discounts that exceed minimum requirements of the NFIP. This year, the Program will work to expand this effort from Unincorporated County to all Ross Valley jurisdictions.	Flood Control District	1) Design & Implement Preparedness Program in partnerships with Ross Valley Cities/Towns and Unincorporated Areas of County 2) Work with Ross Valley City/Towns to develop relevant CRS supportive services 3) Provide applicable CRS support services to Ross Valley Watershed, apply watershed-wide perspective to CRS activities and leverage efficiencies where applicable	\$120,000	FZ9 Watershed Fee
14	Home Elevation Grant - Property Owner Support	Provide on-going support to property owners who have applied for assistance for home elevation. Provide support for new applications if funding becomes available.	Flood Control District	1) Develop avenue for supporting assistance with permitting for property owner who seek to raise their home out of the flood plain 2) Provide on-going support to applicants under the FEMA Home Elevation Grant	\$40,000	Home Elevation Grant, FZ9 Watershed Fee

	Project/ Program Activity	Project/Program Activity Description	Lead Agency	FY17-18 Milestone	Estimated FY 17/18 Expenditure <sup>1</sup>	Funding Source
<b>Program Management</b> (continued)						
15	Creek Conveyance & Habitat Maintenance Program	Includes in-channel creek assessments and maintenance throughout Ross Valley	Flood Control District, Ross Valley City/Towns	1) Conduct Creek assessments to identify priority maintenance 2) Develop work plan 3) Perform maintenance	\$92,000	FZ9 Watershed Fee
16	Community Creek Clean Up Events/Activities	In support of the Creek Conveyance & Habitat Maintenance Program and in partnerships with Ross Valley City/Towns, plan and facilitate community-based clean up/restoration events and activities along critical reaches of local creeks. Events/activities would also be designed to provide creek maintenance and habitat restoration education.	Flood Control District	1) Identify critical reach areas that could support community clean up event 2) Support/facilitate 4 community clean up events in Ross Valley	\$25,000	FZ9 Watershed Fee
17	Rain/Stream Gage Program & Alert System	District awarded a grant to upgrade existing and install new creek gages to ALERT2.	Flood Control District	1) Upgrade existing gages to ALERT2 protocols 2) Install new gages	\$61,600	Flood Emergency Response Plan (FERP) grant
18	Hydrology & Hydraulics Analysis and Support	Collect data and build in-house capacity to model watershed-scale flood conditions for determining feasibility of flood reduction measures.	Flood Control District	1) Complete 2D hydraulic model including alignment with partner models and calibration	\$50,000	FZ9 Watershed Fee

	Project/ Program Activity	Project/Program Activity Description	Lead Agency	FY17-18 Milestone	Estimated FY 17/18 Expenditure <sup>1</sup>	Funding Source
<b>Administration</b>						
19	Program Administration Activities	Administration charges can consist of one or more of the following: Office Supplies, Misc. Supplies, Communication, Professional Development, Travel, Rent & Operating Lease, Dues & Membership. Work plan cost includes Implementation and County Staff Time and Overhead.	Flood Control District	1) Perform administrative functions and activities in support of managing the Ross Valley Program	\$73,636	FZ9 Watershed Fee
<b>Operation and Maintenance</b>						
20	Operation and Maintenance Activities	General Maintenance of in-channel facilities, structures and vegetation not included in the Creek Conveyance and Habitat Maintenance Program.	Flood Control District	1) Perform on-going and routine maintainance 2) Perform additional repair and maintenance of channel, facilities and structures on as-needed or emergency basis	\$481,600	FZ9 Watershed Fee

**Total Estimated FY17/18 Work Plan Expenditures<sup>2</sup>: \$7,351,470**

<sup>1</sup> County staff time and overhead associated with Implementation Programs is captured in the FY17/18 Budget as "County Salaries & Overhead Subtotal"

<sup>2</sup> Estimated FY17/18 Work Plan Summary Expenditures does not include all Program expenses (such as Administration, Operation & Maintenance, Rent and Operating Leases) or previously encumbered expenses and thus may not be reflective of estimates provided in the FY17-18 Program Budget.

Last Modified: 6/051/2017