

STORMWATER FLOOD MANAGEMENT – IRWMP - PROP 1E ROUND 2 GRANT APPLICATION

Lower Mission Creek Flood Control and Restoration Project Reach 1A, Phase 2 and Reach 1B



February 2013

PREPARED BY
Santa Barbara County Flood Control
and Water Conservation District

Table 2 –Prop 1E Grant Applicant Checklist

APPLICANT INFORMATION TAB

The following information is general and applies to the applicant and the overall proposal. Specific project information should be detailed on separate project tabs provided in the BMS application.

APPLICANT INFORMATION

Organization Name: Provide the name of the Agency/Organization responsible for submitting the application. Should the Proposal be successful, this Agency/Organization will be the Grantee.

Santa Barbara County Flood Control and Water Conservation District

Tax ID: Provide the federal tax ID number of the Agency/Organization submitting the application.

95-6002833

Proposal Name: Provide the title of the Proposal

Lower Mission Creek Flood Control and Restoration Project – Phases 1B and 2A

Proposal Objective: Briefly describe how the Proposal helps achieve the objectives of the IRWM Plan.

The Lower Mission Creek Project is consistent with the adopted plan in that it improves flood flow conveyance through an urbanized area. The proposed project will also reduce pollution in the creekbed and coastal waters and improve creek water quality. In addition, this project will protect and restore habitat and ecosystems through restoration efforts.

BUDGET

The following budget items should be taken from Table 6 in Exhibit B where applicable.

Other Contribution: Enter other State funds Being used. If none, enter zeros.

\$0

Local Contribution (Funding Match): Provide the total funding match that will be committed to the Proposal. The Stormwater Flood Management Proposition 1E Program requires a minimum local contribution of 50% for each project.

Federal Contribution: Enter Federal funds being used. If none, enter zeros.

\$0

In-kind Contribution: Provide the total amount of in-kind services in dollars. In-Kind Contribution – refers to work performed by the grantee, the cost of which is considered funding match instead of actual funds from the grantee being used as cost match. If there is no in kind contribution, then enter zeroes in this field.

Stormwater Flood Management Grant Proposal - Round 2
Santa Barbara County Flood Control and Conservation District
Lower Mission Creek Flood Control and Restoration Project – Reaches 1A-2 and 1B

Amount Requested (Grant Funds Requested): Provide the amount of total grant funds requested.
\$2,000,000.00

Total Proposal Cost (Total Project Cost): Provide the total Proposal cost, in dollars. This amount must agree with the total proposal cost shown in Attachment 4 Budget.

GEOGRAPHIC INFORMATION

BMS requests latitude and longitude in degrees, minute, and seconds. You may use converters on the web such as <http://transition.fcc.gov/mb/audio/bickel/DDMMSS-decimal.html>.

Latitude: Enter the Latitude at the location that best represents the center of the IRWM Region.

34.74

Longitude: Enter the Longitude at the location that best represents the center of the IRWM Region.

-120.08

Longitude/Latitude Clarification: Only use if necessary.

Location: Identify the approximate location that best represents the center of the IRWM Region.

Santa Ynez Valley

County: Provide the county in which the region is located.

Santa Barbara

Groundwater Basins: Provide the groundwater basin(s) in which the region is located.

Multiple

Hydrologic Regions: Provide the hydrologic region in which your region is located.

Central Coast

Watershed(s): (250 characters) Provide the name of the watershed the region covers. A map of California watersheds can be found at the following link :

[http://www.conservation.ca.gov/dlrp/wp/Documents/CALFED_Watershed_Map\[1\].pdf](http://www.conservation.ca.gov/dlrp/wp/Documents/CALFED_Watershed_Map[1].pdf). If your Proposal covers multiple hydrologic regions, you may only provide the "Unique Watershed Number" as listed on the watershed map.

30, 31, 32, 33

LEGISLATIVE INFORMATION

Enter the State assembly, State senate, and U.S. congressional districts in which the region is located (use district numbers only, not the name of the Legislator). For regions that include more than one district.

State assembly: http://www.legislature.ca.gov/legislators_and_districts/districts/assemblydistricts.html
33, 35

State Senate: <http://senate.ca.gov/senatedistricts>
15, 19

US Congressional Districts: <http://www.govtrack.us/congress/members/CA>
23, 24

APPLICANT INFORMATION AND QUESTIONS TAB

The answers to these questions will be used in processing the application and determining eligibility and completeness.

Q1. Proposal Description: Provide a brief abstract of the Proposal, including a listing of individual project titles.

This proposal covers two phases of the overall 1.3-mile Lower Mission Creek project. Reach 1B, extends from the Mason Street to Yanonali Street and Reach 2A, which extends from an existing box culvert at the railroad station downstream to the existing Mission Creek channel. These two phases will improve flood flow conveyance and in the area of Reach 1B, expand natural streambed features enhancing habitat for the endangered steelhead trout and other species

Q2. Project Director: Provide the name and details of the person responsible for executing the grant agreement for the applicant. Persons that are subcontractors to be paid by the grant cannot be listed as the Project Director.

Tom Fayram, Deputy Director Public Works
Santa Barbara County Flood Control
130 E. Victoria Street, Suite 200
Santa Barbara, CA 93101
805-568-3440

Q3. Project Management: Provide the name and contact information of the Project Manager from the applicant agency or organization that will be the day-to-day contact on this application.

Jon Frye, Engineering Manager
Santa Barbara County Flood Control
130 E. Victoria Street, Suite 200
Santa Barbara, CA 93101
805-568-3444
805-568-3434 fax

Q4. Applicant Information: Provide the agency name, address, city, state and zip code of the applicant submitting the application.

Santa Barbara County Flood Control and Water Conservation District
130 E. Victoria Street, Suite 200
Santa Barbara, CA 93101

Q5. Additional Information: Provide the funding area(s) in which projects are located.
Central Coast

Q6. Responsible Regional Water Quality Control Board(s) (RWQCB): List the name of the RWQCB in which your Proposal is located. For a region that extends beyond one RWQCB boundary, list the name of each Board.

3 Central Coast RWQCB

Q7. Eligibility: Is the application from an IRWM region approved in the RAP (To verify, see RAP website: http://www.water.ca.gov/irwm/integregio_rap.cfm.) If yes, include the name of the IRWM Region. If not, explain.

Yes, Santa Barbara County

Q8. Eligibility: Is the applicant a local public agency or non-profit organization as defined in Appendix B of the 2012 Guidelines?

Yes

Q9. Eligibility: List the urban water suppliers that will receive funding from the proposed grant. Please provide the agency name, a contact phone number and email address. Those listed must submit self certification of compliance with CWC §525 *et seq.* and AB 1420, see Attachment 10. If there are none, so indicate and you do not have to answer Q10 or Q11.

N/A

Q10. Eligibility: Have all of the urban water suppliers, listed in Q9 above, submitted complete Urban Water Management Plans (UWMPs), to DWR? Have those plans been verified as complete by DWR? If not, explain and provide the anticipated date for having a complete UWMP.

N/A

Q11. Eligibility: Have any urban water suppliers, listed in Q9 recently submitted Assembly Bill (AB) 1420 compliance tables and supporting documentation to DWR for a different grant program on or after November 1, 2012? If so, please list the urban water supplier and the grant program. An urban water supplier must submit AB 1420 compliance documentation to DWR. If the urban water supplier has not submitted AB 1420 documentation, or that documentation was determined to be incomplete by DWR, the urban water supplier's projects will not be considered eligible for grant funding. Refer to Section IIIB of the 2012 Guidelines for additional information.

N/A

Q12. Eligibility: Does the Proposal include any groundwater management or groundwater recharge projects or projects with potential groundwater impacts? If so, provide the name(s) of the project(s) and list the agency(ies) that will implement the project(s)

No

Q13. Eligibility: For the agency(ies) listed in Q12, how has the agency complied with CWC §10753 regarding GWMPs, as described in Section III.B of the 2012 Guidelines?

N/A

Q14. Eligibility: List the agricultural water suppliers that will receive funding from the proposed grant. Please provide the agency/organization name, a contact phone number and email address.

N/A

Q15. Eligibility: Have all of the agricultural water suppliers, listed in Q14 above, submitted complete Agricultural Water Management Plan to DWR? Have those plans been verified as complete by DWR? If not, explain and provide the anticipated date for having a complete Agricultural Water Management Plan.

N/A

Q16. Eligibility: List the surface water diverters that will receive funding from the proposed grant. Please provide the agency/organization name, a contact phone number and email address.

N/A

Q17. Eligibility: Have all of the surface water diverters, listed in Q16 above, submitted surface water diversion reports in compliance with requirements outlined in Part 5.1 (commencing with §5100) of Division 2 of the CWC? If not, explain and provide the anticipated date for meeting the requirements.

N/A

Q18. Eligibility: List the groundwater users that will receive funding from the proposed grant. Please provide the agency/organization name, a contact phone number and email address.

N/A

Q19. Eligibility: Have all of the groundwater users, listed in Q18 above, met the requirements of DWR's CASGEM Program: <http://www.water.ca.gov/groundwater/casgem/>? If not, explain and provide the anticipated date for meeting the requirements.

N/A

Attachment

1

***Stormwater Flood Management Grant Proposal
Santa Barbara County Flood Control and Conservation District
Authorization and Eligibility Requirements***

Attachment 1 consists of the following items:

- ✓ **Authorization and Eligibility Requirements.** Attachment 1 contains the County’s resolution and eligibility documentation, Ground Water Management Compliance documentation, and information regarding the project’s consistency with the adopted Santa Barbara County Integrated Regional Water Management Plan (IRWMP).

Introduction

This attachment contains all authorization and eligibility documentation for the proposed Lower Mission Creek Flood Control and Restoration Project - Reaches 1A-Phase 2 and 1B (Project) as required under the IRWM Grant Program Guidelines for Stormwater Funding Management Grants (Proposition 1E).

The Project includes reaches 1A-2 and 1B and is part of the overall 1.3-mile long Lower Mission Creek Flood Control and Restoration Project. The first phase of Reach 1A was completed in 2011. 1A Phase 2 will continue the improvements initiated with Reach 1A – Phase 1 up to Mason Street. These improvements include widening the creek channel, providing improved aquatic habitat, and expanded riparian habitat along the creek banks. Reach 1B will widen the portion of Mission Creek between Yanonali and Mason Streets providing improved aquatic habitat and expanded riparian habitat along the creek banks.

Authorizing Documentation

On January 15, 2013, the County of Santa Barbara Board of Supervisors, acting as the Board of Directors (governing body) for the County of Santa Barbara Flood Control and Water Conservation District (District), adopted Resolution (Minute Order) 13-00059 authorizing the District to submit a grant application to the Department of Water Resources for Proposition 1E funding of the Lower Mission Creek Flood Control Project and execute an agreement with the State for a Stormwater Flood Management Grant. The Resolution is attached as (Exhibit 1-1).

Eligible Application Documentation

Local Agency - The County of Santa Barbara Flood Control and Water Conservation District is a Local Public Agency, specifically, a special district of the State of California, as defined in Section 216 of the Public Utilities Code.

Legal Authority to Operate - The District was created by the Santa Barbara Flood Control & Water Conservation District Act in 1955 per Chapter 74 of the California Water Code Appendix.

Legal Authority to Enter into a Grant Agreement with the State of California - The District has the legal authority to enter into a grant agreement with the State of California Department of Water Resources (DWR). On January 15, 2013, the County of Santa Barbara Board of Supervisors, acting as the Board of Directors (governing body) for the County of Santa Barbara Flood Control and Water Conservation District (District), adopted Resolution (Minute Order) 13-00059 authorizing the District to submit and implement a grant application with the State.

Legal Agreements Among Partner Agencies - The District has cooperative agreements with the City of Santa Barbara and the US Army Corps of Engineers for this project. There are numerous agreements that have been executed over the years (decades) with both the City of SB and with the Corps. These agreements serve to identify roles and responsibilities and assist in maintaining progress when the resources of the three entities are combined. In January 2011, the Corps and the District executed an MOU for the work performed prior to the execution of a Project Partnership Agreement for Reach 1A and 2A. This way, the District can gain credit for the local share for costs spent prior to the PPA.

Groundwater Management Plan Compliance

The City of Santa Barbara overlies the entire basin that would potentially be affected. The City asserts “Pueblo” water rights and manages its water supply under the 1994 Long-Term Water Supply Program (LTWSP), adopted after the completion of the Long-Term Water Supply Alternatives Analysis and the LTWSP environmental impact report (EIR) (State Clearinghouse No. 91121020). The LTWMP EIR describes the local groundwater resources, quantifies annual recharge rates and perennial yields, and evaluates the City of Santa Barbara conjunctive use approach to groundwater management; whereby the City pumps very little groundwater in wet and average years and more heavily in drought years.

The proposed Lower Mission Creek Flood Control and Restoration Project (including reaches 1A-2 and 1B) will have a “de minimus” effect on local groundwater resources. The EIR for the project cites geologic studies that conclude that clay layers separate the shallow zone from the lower zones used for groundwater production, preventing any significant groundwater movement between the zones. With regard to the charge to the shallow zone, the EIR concludes that proposed side slope protection will not affect percolation, and the majority of the percolation would continue to occur through the natural creek bed when the project is completed (see Exhibit 1-2, EIR, page 7-15). No groundwater effects are anticipated in terms of changes to seawater intrusion or construction-related activities.

Consistency with an Adopted IRWM Plan

This application is consistent with the adopted IRWM Plan (June 19, 2007), the Santa Barbara Countywide Integrated Regional Management Plan (IRWM Plan) (Exhibit 1-3). The Lower Mission Creek Flood Control and Rehabilitation Project was listed as a top implementation project (Project No. 24) and is described on page 8-43 in the IRWMP.

The regional and local benefits listed in the IRWM Plan include: restoration of the creek channel, habitat improvement, enhance fish passage up the watershed, removal of invasive and non-native plants and trees, and installation of native plants and trees. The restored stream channel increases the wetland area improving water quality, habitat, and the natural treatment of pollutants.

Table 1-1 on page 1-3 lists the reaches of the Project and describes the manner in which each project is consistent with the adopted IRWMP including its objectives, issues, priorities and water management strategies.

Table 1-1

Santa Barbara County IRWMP 2007					
Objectives, Issues, Priorities and Strategies					
Project Reach	Regional Objectives Achieved	Key Region-wide and Watershed Issues	Watershed Specific Issues	Primary Short-term Regional Priorities	Regional Water Management Strategies
1A – Phase 2	Water Quality, Emergency Preparedness, and Ecosystem Restoration	Potential harm to people and property from flooding (p. 7-2, 2007 IRWMP)	People and property may experience potential harm from flooding (p. 7-4, 2007 IRWMP)	Protect public safety by reducing the potential for flooding in strategic areas through infrastructure improvements (p. 7-7, 2007 IRWMP)	Flood management, ecosystem restoration, environmental and habitat protection and improvement, wetlands enhancement and creation, water quality protection and improvement
1B	Water Quality, Emergency Preparedness, and Ecosystem Restoration	Potential harm to people and property from flooding (p. 7-2, 2007 IRWMP)	People and property may experience potential harm from flooding (p. 7-4, 2007 IRWMP)	Protect public safety by reducing the potential for flooding in strategic areas through infrastructure improvements (p. 7-7, 2007 IRWMP)	Flood management, ecosystem restoration, environmental and habitat protection and improvement, wetlands enhancement and creation, water quality protection and improvement

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Exhibit 1-1
Resolution

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County of Santa Barbara
BOARD OF SUPERVISORS

Minute Order
January 15, 2013

Present: 5 - Supervisor Carbajal, Supervisor Wolf, Supervisor Farr, Supervisor Adam,
and Supervisor Lavagnino

PUBLIC WORKS, BOARD OF DIRECTORS, FLOOD CONTROL AND WATER CONSERVATION DISTRICT File Reference No. 13-00059

RE: Acting as the Board of Directors, Flood Control and Water Conservation District:

Consider recommendations regarding the authorization of a Grant Application to the California Department of Water Resources for Proposition 1E funding of the Lower Mission Creek Flood Control Project, and the Las Vegas / San Pedro Creeks UPRR Bridge Replacement Project, First and Second Supervisorial Districts, as follows:

- a) Adopt the Resolution entitled "In the Matter of Authorizing Grant Application to the California Department of Water Resources for the Lower Mission Creek Flood Control Project," allowing the Flood Control District to pursue the second round of Proposition 1E grant funding for Reaches 1A-2, 1B, 2A and 2B-2 of the Lower Mission Creek Flood Control Project;
- b) Find that the proposed approval of the Resolution for the Lower Mission Creek Flood Control Project authorizing grant applications does not constitute a "Project" within the meaning of the California Environmental Quality Act (CEQA) pursuant to 14 CCR 15378 (b)(4), the creation of government funding mechanisms;
- c) Adopt the Resolution entitled "In the Matter of Authorizing Grant Application to the California Department of Water Resources for the Las Vegas / San Pedro Creeks UPRR Bridge Replacement Project," allowing the Flood Control District to pursue the second round of Proposition 1E grant funding for the replacement of the Union Pacific Railroad Bridges; and
- d) Find that the proposed approval of the Resolution for the Las Vegas/San Pedro Creeks UPRR Bridge Replacement Project authorizing grant applications does not constitute a "Project" within the meaning of the California Environmental Quality Act (CEQA) pursuant to 14 CCR 15378 (b)(4), the creation of government funding mechanisms.

A motion was made by Supervisor Lavagnino, seconded by Supervisor Wolf, that this matter be Acted on as follows:

a) Adopted.

RESOLUTION NO. 13-10

b) Approved.

c) Adopted.

RESOLUTION NO. 13-11

d) Approved.

The motion carried by the following vote.

This is a true certified copy of the original document on file or of record in my office. It bears the seal and signature, imprinted in purple ink, of the Clerk of the Board of Supervisors.



Chandra Waller

Clerk of the Board, Santa Barbara County, California

Date 1-17-13 by Deputy: *[Signature]*

Ayes: 5 - Supervisor Carbajal, Supervisor Wolf, Supervisor Farr, Supervisor Adam,
and Supervisor Lavagnino

**RESOLUTION OF THE BOARD OF DIRECTORS OF THE
SANTA BARBARA COUNTY FLOOD CONTROL &
WATER CONSERVATION DISTRICT
STATE OF CALIFORNIA**

**IN THE MATTER OF AUTHORIZING GRANT)
APPLICATION TO THE CALIFORNIA)
DEPARTMENT OF WATER RESOURCES FOR)
THE LAS VEGAS / SAN PEDRO CREEKS)
UPRR BRIDGE REPLACEMENT PROJECT) RESOLUTION NO. 13-11**

WHEREAS, the Santa Barbara County Flood Control & Water Conservation District proposes to construct the Las Vegas / San Pedro Creeks UPRR Bridge Replacement Project to increase the capacity of the creeks to improve flood protection for the residents along Las Vegas and San Pedro Creeks in Santa Barbara County; and

WHEREAS, the California Department of Water Resources is accepting applications for the Stormwater Flood Management Grant Funding Program pursuant to the Disaster Preparedness and Flood Prevention Bond Act of 2006 (Public Resource Code Section 5096.800 *et seq.*); and

WHEREAS, the Santa Barbara County Flood Control & Water Conservation District is authorized to submit a grant application and to enter into a grant agreement with the California Department of Water Resources to receive grant funding for the Las Vegas / San Pedro Creeks UPRR Bridge Replacement Project.

NOW THEREFORE, The Board of Directors does resolve as follows:

1. That application be made to the California Department of Water Resources to obtain Stormwater Flood Management grant funding pursuant to the Disaster Preparedness and Flood Prevention Bond Act of 2006 (Public Resource Code Section 5096.800 *et seq.*), and to enter into an agreement to receive a grant for the Las Vegas / San Pedro Creeks UPRR Bridge Replacement Project.
2. The Public Works Director or designee is hereby authorized and directed to prepare the necessary data, conduct investigations, to file such application, and execute a grant agreement with the California Department of Water Resources.

RESOLUTION OF THE BOARD OF DIRECTORS
COUNTY OF SANTA BARBARA
STATE OF CALIFORNIA
PAGE TWO

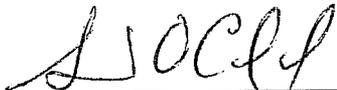
PASSED, APPROVED, AND ADOPTED by the Board of Directors of the Santa Barbara County Flood Control & Water Conservation District, State of California, on this 15th day of January, 2013 by the following vote:

AYES: Supervisor Carbajal, Wolf, Farr, Adam & Lavagnino
NAYS: None
ABSENT: None
ABSTAIN: None

ATTEST:
CHANDRA L. WALLAR
CLERK OF THE BOARD

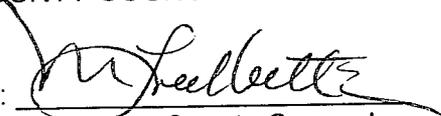
ACCEPTED AND AGREED:
SANTA BARBARA COUNTY FLOOD CONTROL
& WATER CONSERVATION DISTRICT

By: 
Deputy

By: 
Chair, Board of Directors

APPROVED AS TO FORM:
DENNIS MARSHALL,
COUNTY COUNSEL

APPROVED AS TO ACCOUNTING FORM:
ROBERT W. GEIS,
AUDITOR CONTROLLER

By: 
Deputy County Counsel

By: 
Deputy
Deputy Auditor-Controller
Gregory Eric Levin
Advanced and Specialty Accounting

This is a true certified copy of the original document on file or of record in my office. It bears the seal and signature, imprinted in purple ink, of the Clerk of the Board of Supervisors.



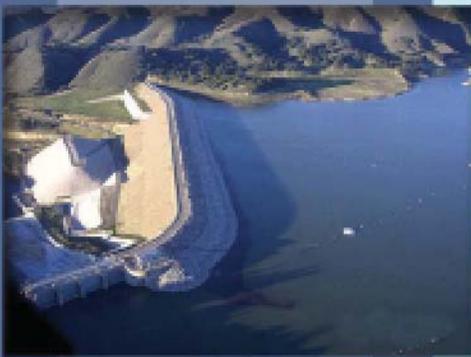
Chandra Wallar
Clerk of the Board, Santa Barbara County, California
Date 1-17-13 by Deputy: 

Exhibit 1-2

Santa Barbara Countywide Integrated Regional Management Plan

Table of Contents

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Santa Barbara Countywide Integrated Regional Water Management Plan

MAY 2007

AN ELECTRONIC COPY OF THIS DOCUMENT AND PROJECT INFORMATION ARE AVAILABLE AT:
WWW.COUNTYOF SB.ORG/PWD/WATER/IRWMP.HTM
FOR FURTHER INFORMATION, CONTACT THE SANTA BARBARA COUNTY WATER AGENCY AT
805-568-3545

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Cooperating Partners for the Santa Barbara Countywide IRWMP

**Cachuma Conservation and Release Board
Cachuma Operation and Maintenance Board
Carpinteria Sanitary District
Carpinteria Valley Water District
Casmalia Community Services District
Central Coast Water Authority
City of Buellton
City of Carpinteria
City of Guadalupe
City of Lompoc
City of Santa Barbara
City of Santa Maria
City of Solvang
Cuyama Community Services District
Golden State Water Company
Goleta Sanitary District
Goleta Water District
Goleta West Sanitary District
La Cumbre Mutual Water Company
Los Alamos Community Services District
Mission Hills Community Services District
Montecito Sanitary District
Montecito Water District
Santa Barbara County
Santa Maria Valley Water Conservation District
Santa Ynez River Water Conservation District
Santa Ynez River Water Conservation District
Improvement District No. 1
Summerland Sanitary District
Vandenberg Village Community Services District**

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Acknowledgements

Santa Barbara Countywide Integrated Regional Water Management Plan

The Santa Barbara Countywide IRWMP is a result of the combined efforts of many agencies, organizations, and individuals. The Cooperating Partners spent numerous hours developing the information that is included in the Plan, as well reviewing its contents. The following individuals prepared or reviewed sections of the IRWMP:

Cooperating Partners

- Joe Barget, Vandenberg Village Community Services District
- William Brennan, Central Coast Water Authority
- Chris Dahlstrom, Santa Ynez River Water Conservation District Improvement District No. 1
- Jeff Dameron, La Cumbre Mutual Water Company
- Bill Ferguson, City of Santa Barbara Public Works Department
- Autumn Malanca, City of Santa Barbara Creeks Division
- Bob McDonald, Carpinteria Valley Water District
- Gary McFarland, Goleta Water District
- Craig Murray, Carpinteria Sanitary District
- Kate Rees, Cachuma Operation and Maintenance Board/Cachuma Conservation Release Board
- Teresa Reyburn, City of Santa Maria
- Susan Segovia, City of Lompoc
- Brad Vidro, City of Solvang
- Bruce Wales, Santa Ynez River Water Conservation District
- Jill Zachary, City of Santa Barbara Parks and Recreation Department

Santa Barbara County Water Agency

- Robert Almy
- Eric Carso
- Len Fleckenstein
- Helena Wiley von Rueden

CH2M HILL

- Kathy Caldwell
- Laura Eckert
- Anne Lynch
- Mike Maxwell
- John Schoonover
- Bill Ward
- Lorraine Woodman

Dudek

- Shruti Chandra

The IRWMP also benefited from the thoughtful input given by the California Department of Water Resources, the Central Coast Regional Water Quality Control Board, and interested members of the public.

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2

***Stormwater Flood Management Grant Proposal
Santa Barbara County Flood Control and Conservation District
Authorization and Eligibility Requirements***

Attachment 2 consists of the following items:

- ✓ **Proof of Formal Adoption.** Attachment 2 contains proof of formal adoption by all Regional Water Management Group (RWMG) entities and project proponents that the Integrated Regional Water Management (IRWM) Plan has been adopted.
-

Introduction

Formal adoption of the Santa Barbara Countywide Integrated Regional Water Management (IRWM) Plan by Santa Barbara County Water Agency is documented by the attached Resolution No. 07-191, dated June 19, 2007. The Water Agency was authorized to develop and implement the plan by the Cooperating Partners. The Cooperating Partners (RWMG) are 29 agencies in the Santa Barbara Region that supported the development of the IRWM Plan.

Proof of Formal Adoption

Table 2-1 provides a list of Cooperating Partners that have adopted the IRWM Plan, the date of adoption, and the resolution number.

TABLE 2-1 Proof of Resolution		
Agency Name	Date of Adoption	Resolution No.
Santa Barbara County *	6/19/2007	07-191
Cachuma Conservation and Release Board	6/25/2007	07-3
Cachuma Operation and Maintenance Board	6/25/2007	454
Carpinteria Sanitary District	6/5/2007	R-196
Carpinteria Valley Water District	6/20/2007	849
Casmalia Community Services District	6/12/2007	Not Numbered
Central Coast Water Authority	6/28/2007	07-02
City of Buellton	8/9/2007	07-14
City of Carpinteria	7/9/2007	5070
City of Guadalupe	6/26/2007	2007-11
City of Lompoc	6/19/2007	5414(07)
City of Santa Barbara	6/27/2007	07-059
City of Santa Maria	6/19/2007	2007-83
City of Solvang	7/23/2007	07-781
Cuyama Community Services District	7/11/2007	Not Numbered
Goleta Sanitary District	7/2/2007	07-459
Goleta Water District	6/12/2007	2007-13
Goleta West Sanitary	7/3/2007	07-707
La Cumbre Mutual	6/19/2007	Not Numbered

TABLE 2-1 Proof of Resolution		
Agency Name	Date of Adoption	Resolution No.
Montecito Water	6/19/2007	2032
Santa Ynez River Water Conservation District	6/6/2007	613
Santa Ynez River Water Conservation District – Improvement District No. 1	6/19/2007	646
Vandenberg Village Community Services District	6/5/2007	178-07
*Santa Barbara County includes the following Project Proponents: (1) Laguna County Sanitation District, (2) Santa Barbara County Flood Control District and (3) Santa Barbara County Agricultural Commissioner's Office		

Copies of Resolutions

Copies of the resolutions adopting the IRWM Plan follow.

**RESOLUTION OF THE
BOARD SUPERVISORS OF THE COUNTY OF SANTA BARBARA
BOARD OF DIRECTORS OF THE SANTA BARBARA COUNTY WATER AGENCY
BOARD OF DIRECTORS OF THE SANTA BARBARA COUNTY FLOOD CONTROL
& WATER CONSERVATION DISTRICT
BOARD OF DIRECTORS OF THE LAGUNA COUNTY SANITATION DISTRICT
STATE OF CALIFORNIA**

**ADOPTING THE SANTA BARBARA)
COUNTYWIDE INTEGRATED REGIONAL)
WATER MANAGEMENT PLAN) RESOLUTION NO: 07-191**

WHEREAS, in November 2002, the California electorate approved Proposition 50 (the Water Security, Clean Drinking Water, Coastal and Beach Protection Act of 2002 (Water Code Section 79560 et seq), which included \$500 million under Chapter 8 for projects included in an Integrated Regional Water Management Plan (IRWMP); and

WHEREAS, Proposition 50, Chapter 8 Implementation funds will only be awarded to Regions with an adopted IRWMP; and

WHEREAS, the IRWMP for Santa Barbara County area was developed through a comprehensive stakeholder process and provides for ongoing data gathering, planning, design, implementation, and evaluation through a long-term, iterative, community-based process; and

WHEREAS, widespread adoption of the Santa Barbara Countywide IRWMP ensures multi-agency participation and future water management planning efforts in the Region; and

NOW, THEREFORE BE IT RESOLVED, that the Board of Supervisors of the County of Santa Barbara, Board of Directors of the Santa Barbara County Water Agency, the Board of Directors of the Santa Barbara County Flood Control & Water Conservation District, and the Board of Directors of the Laguna County Sanitation District hereby finds, determines, and declares as follows:

1. All of the above recitals are true and correct.
2. Hereby adopts the Santa Barbara Countywide Integrated Regional Water Management Plan.

PASSED, APPROVED, AND ADOPTED by the Board of Supervisors of the County of Santa Barbara, Board of Directors of the Santa Barbara County Water Agency, the Board of Directors of the Santa Barbara County Flood Control & Water Conservation District, and the Board of Directors of the Laguna County Sanitation District, State of California, on this 19th day of June, 2007 by the following vote:

AYES: Supervisors Carbajal, Wolf, Firestone, Gray, Centeno
NAYS: None
ABSENT: None
ABSTAIN: None

ATTEST:
MICHAEL F. BROWN
CLERK OF THE BOARD

ACCEPTED AND AGREED:
COUNTY OF SANTA BARBARA

By: *Russ Barber*
Deputy

By: *Bruce Firestone*
Chair, Board of Supervisors
County of Santa Barbara

Chair, Board of Directors
Santa Barbara Flood Control
& Water Conservation District

Chair, Board of Directors
Laguna County Sanitation District

Chair, Board of Directors
Santa Barbara Water Agency

APPROVED AS TO FORM
STEPHEN SHANE STARK
COUNTY COUNSEL

By: *Michael F. Brown*
Deputy

**RESOLUTION OF THE
BOARD SUPERVISORS OF THE COUNTY OF SANTA BARBARA
BOARD OF DIRECTORS OF THE SANTA BARBARA COUNTY WATER AGENCY
BOARD OF DIRECTORS OF THE SANTA BARBARA COUNTY FLOOD CONTROL
& WATER CONSERVATION DISTRICT
BOARD OF DIRECTORS OF THE LAGUNA COUNTY SANITATION DISTRICT
STATE OF CALIFORNIA**

**ADOPTING THE SANTA BARBARA)
COUNTYWIDE INTEGRATED REGIONAL)
WATER MANAGEMENT PLAN) RESOLUTION NO: 07-191**

WHEREAS, in November 2002, the California electorate approved Proposition 50 (the Water Security, Clean Drinking Water, Coastal and Beach Protection Act of 2002 (Water Code Section 79560 et seq), which included \$500 million under Chapter 8 for projects included in an Integrated Regional Water Management Plan (IRWMP); and

WHEREAS, Proposition 50, Chapter 8 Implementation funds will only be awarded to Regions with an adopted IRWMP; and

WHEREAS, the IRWMP for Santa Barbara County area was developed through a comprehensive stakeholder process and provides for ongoing data gathering, planning, design, implementation, and evaluation through a long-term, iterative, community-based process; and

WHEREAS, widespread adoption of the Santa Barbara Countywide IRWMP ensures multi-agency participation and future water management planning efforts in the Region; and

NOW, THEREFORE BE IT RESOLVED, that the Board of Supervisors of the County of Santa Barbara, Board of Directors of the Santa Barbara County Water Agency, the Board of Directors of the Santa Barbara County Flood Control & Water Conservation District, and the Board of Directors of the Laguna County Sanitation District hereby finds, determines, and declares as follows:

1. All of the above recitals are true and correct.
2. Hereby adopts the Santa Barbara Countywide Integrated Regional Water Management Plan.

PASSED, APPROVED, AND ADOPTED by the Board of Supervisors of the County of Santa Barbara, Board of Directors of the Santa Barbara County Water Agency, the Board of Directors of the Santa Barbara County Flood Control & Water Conservation District, and the Board of Directors of the Laguna County Sanitation District, State of California, on this 19th day of June, 2007 by the following vote:

AYES: Supervisors Carbajal, Wolf, Firestone, Gray, Centeno
NAYS: None
ABSENT: None
ABSTAIN: None

ATTEST:
MICHAEL F. BROWN
CLERK OF THE BOARD

ACCEPTED AND AGREED:
COUNTY OF SANTA BARBARA

By: Russ Barber
Deputy

By: Barbara Firestone
Chair, Board of Supervisors
County of Santa Barbara

Chair, Board of Directors
Santa Barbara Flood Control
& Water Conservation District

Chair, Board of Directors
Laguna County Sanitation District

Chair, Board of Directors
Santa Barbara Water Agency

APPROVED AS TO FORM
STEPHEN SHANE STARK
COUNTY COUNSEL

By: Michael Felber
Deputy

RESOLUTION NO. 07-3

**A RESOLUTION OF THE BOARD OF DIRECTORS OF THE
CACHUMA CONSERVATION RELEASE BOARD TO ADOPT
THE SANTA BARBARA COUNTYWIDE
INTEGRATED REGIONAL WATER MANAGEMENT PLAN**

WHEREAS, in November 2002, the California electorate approved Proposition 50, (the Water Security, Clean Drinking Water, Coastal and Beach Protection Act of 2002 (Water Code Section 79560 et seq), which included \$500 million under Chapter 8 for projects included in an Integrated Regional Water Management Plan (IRWMP); and

WHEREAS, Proposition 50, Chapter 8 Implementation funds will only be awarded to Regions with an adopted IRWMP, and other recently passed State bond measures include similar IRWMP requirements; and

WHEREAS, the Cachuma Conservation Release Board has participated as a Cooperating Partner along with other public agencies in Santa Barbara County through a comprehensive stakeholder process under a Memorandum of Understanding (MOU) to Develop an Integrated Water Management Plan, and have completed the first edition of the IRWMP, dated May 2007; and

WHEREAS, legal counsel has determined that the adoption of the IRWMP is exempt from the California Environmental Quality Act (CEQA) pursuant to CEQA Guidelines Section 15262 because the Plan is a planning study which identifies potential projects, programs, and polices for possible future actions; and

NOW, THEREFORE, BE IT RESOLVED, by the Cachuma Conservation Release Board as follows:

1. The Cachuma Conservation Release Board adopts the Santa Barbara Countywide IRWMP dated May 2007.
2. The adoption of the IRWMP is exempt from the requirements of CEQA pursuant to Sections 15262 of the State CEQA Guidelines.
3. The Board of Directors directs the Manager to file a Notice of Exemption in accordance with provisions of CEQA.

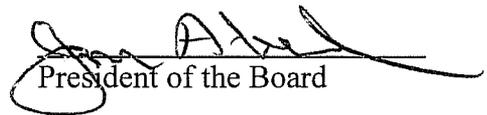
BE IT FURTHER RESOLVED, that this Resolution shall take effect immediately.

PASSED, APPROVED AND ADOPTED at a regular meeting of the governing board of the Cachuma Conservation Release Board held on the 25th day of June, 2007, by the following roll call vote:

AYES: Directors Abel, Evans, Lieberknecht, Williams

NAYES: None

ABSENT/ABSTAIN: None


President of the Board

ATTEST:


Secretary to the Board

RESOLUTION NO. 454

**A RESOLUTION OF THE BOARD OF DIRECTORS OF THE
CACHUMA OPERATION AND MAINTENANCE BOARD TO ADOPT
THE SANTA BARBARA COUNTYWIDE
INTEGRATED REGIONAL WATER MANAGEMENT PLAN**

WHEREAS, in November 2002, the California electorate approved Proposition 50, (the Water Security, Clean Drinking Water, Coastal and Beach Protection Act of 2002 (Water Code Section 79560 et seq), which included \$500 million under Chapter 8 for projects included in an Integrated Regional Water Management Plan (IRWMP); and

WHEREAS, Proposition 50, Chapter 8 Implementation funds will only be awarded to Regions with an adopted IRWMP, and other recently passed State bond measures include similar IRWMP requirements; and

WHEREAS, the Cachuma Operation and Maintenance Board has participated as a Cooperating Partner along with other public agencies in Santa Barbara County through a comprehensive stakeholder process under a Memorandum of Understanding (MOU) to Develop an Integrated Water Management Plan, and have completed the first edition of the IRWMP, dated May 2007; and

WHEREAS, legal counsel has determined that the adoption of the IRWMP is exempt from the California Environmental Quality Act (CEQA) pursuant to CEQA Guidelines Section 15262 because the Plan is a planning study which identifies potential projects, programs, and policies for possible future actions; and

NOW, THEREFORE, BE IT RESOLVED, by the Cachuma Operation and Maintenance Board as follows:

1. The Cachuma Operation and Maintenance Board adopts the Santa Barbara Countywide IRWMP dated May 2007.
2. The adoption of the IRWMP is exempt from the requirements of CEQA pursuant to Sections 15262 of the State CEQA Guidelines.
3. The Board of Directors directs the General Manager to file a Notice of Exemption in accordance with provisions of CEQA.

BE IT FURTHER RESOLVED, that this Resolution shall take effect immediately.

PASSED, APPROVED AND ADOPTED at a regular meeting of the governing board of the Cachuma Operation and Maintenance Board held on the 25th day of June, 2007, by the following roll call vote:

AYES: Directors Abel, Evans, Lieberknecht, Loudon, Williams

NAYES: None

ABSENT/ABSTAIN: None


C. Charles Evans
President of the Board

ATTEST:


Kathleen Lee
Secretary to the Board



County of Santa Barbara

BOARD OF SUPERVISORS

Minute Order

June 19, 2007

Present: Supervisor Carbajal, Supervisor Wolf, Supervisor Firestone, Supervisor Gray and Supervisor Centeno

PUBLIC WORKS

File Reference No. 07-00630

RE: Consider recommendations for the Santa Barbara Countywide Integrated Regional Water Management Plan, as follows:

- a) File the CEQA Notice of Exemption for the Santa Barbara Countywide Integrated Regional Water Management Plan, (POST); and
- b) Adopt a Resolution approving the Santa Barbara Countywide Integrated Regional Water Management Plan allowing the County to seek Prop 50 funding.

A motion was made by Supervisor Gray, seconded by Supervisor Centeno, that this matter be Acted on as follows:

- a) Receive and filed.
- b) Adopted.

RESOLUTION NO. 07-191

The motion carried unanimously.

RESOLUTION NO. R-196

A RESOLUTION OF THE BOARD OF DIRECTORS OF CARPINTERIA SANITARY DISTRICT ADOPTING THE SANTA BARBARA COUNTYWIDE INTEGRATED REGIONAL WATER MANAGEMENT PLAN

WHEREAS, in November 2002, the California electorate approved Proposition 50, the Water Security, Clean Drinking Water, Coastal and Beach Protection Act of 2002 (Water Code Section 79560 et seq), which included \$500 million under Chapter 8 for projects included in an Integrated Regional Water Management Plan (IRWMP); and

WHEREAS, Proposition 50, Chapter 8 implementation funds will only be awarded to Regions with an adopted IRWMP; and

WHEREAS, the Santa Barbara Countywide IRWMP was developed with collaboration and cooperation from twenty-nine participating partner agencies in Santa Barbara County, each with an interest in regional water related issues; and

WHEREAS, adoption of Santa Barbara Countywide IRWMP by each of the participating partner agencies will validate the planning process and demonstrate the commitment to ongoing water management planning in the Region; and

WHEREAS, the Carpinteria Sanitary District may benefit through the receipt of grant funds for critical capital improvement projects through participation in the regional planning process, including adoption of the IRWMP

NOW, THEREFORE, BE IT RESOLVED, that the Carpinteria Sanitary District Board of Directors hereby finds, determines, and declares as follows:

- All of the above recitals are true and correct.
- The Carpinteria Sanitary District Board of Directors hereby adopts the Santa Barbara Countywide Integrated Regional Water Management Plan.

PASSED AND ADOPTED by the Governing Board of the Carpinteria Sanitary District on June 5, 2007 by the following votes:

AYES: Director Treloar, Director Graf, Director Damron, Director Moorhouse,
Director Horwitz

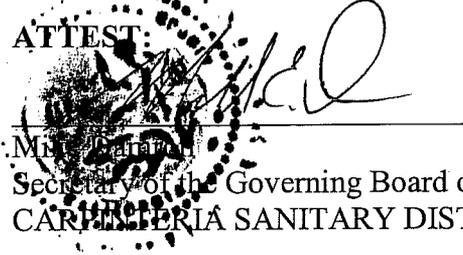
NAYS: None

ABSTENTIONS: None

Resolution No. R-196 was thereupon declared, carried, and adopted.
Dated this 5th day of June 2007.

APPROVED:


President of the Governing Board
CARPINTERIA SANITARY DISTRICT

ATTEST:

Mike Damron
Secretary of the Governing Board of the
CARPINTERIA SANITARY DISTRICT

I, Mike Damron, Secretary of the Governing Board of the CARPINTERIA SANITARY DISTRICT, hereby certify that the foregoing is a true copy of the resolution duly and legally adopted by the governing body of the DISTRICT at a legal meeting of said body duly and regularly held on June 5, 2007.

DATE CERTIFIED: June 5, 2007

RESOLUTION NUMBER 849

**A RESOLUTION OF THE BOARD OF DIRECTORS OF
THE CARPINTERIA VALLEY WATER DISTRICT
ADOPTING THE SANTA BARBARA COUNTYWIDE
INTEGRATED REGIONAL WATER MANAGEMENT PLAN**

WHEREAS, in November 2002, the California electorate approved Proposition 50 (the Water Security, Clean Drinking Water, Coastal and Beach Protection Act of 2002, Water Code Section 79560 et seq), which included \$500 million under Chapter 8 for projects included in an Integrated Regional Water Management Plan (IRWMP);

WHEREAS, Proposition 50, Chapter 8 Implementation funds will only be awarded to Regions with an adopted IRWMP, and other recently adopted State water bond measures include similar IRWMP requirements;

WHEREAS, staff of the Carpinteria Valley Water District, along with other public agencies in Santa Barbara County, have participated as Cooperating Partners under a "Memorandum of Understanding (MOU) to Develop an Integrated Regional Water Management Plan (IRWMP) in Santa Barbara County" and have completed the first edition of the Santa Barbara Countywide Integrated Regional Water Management Plan (SBCIRWMP), dated May 2007;

WHEREAS, Table 7-1, "Integration of Water Management Strategies, Regional Priorities, and Objectives –Short Term Priorities (5 years)" of the SBCIRWMP appropriately identifies Regional Priorities for water management, summarized as follows:

- § Reduce the potential for flooding;
- § Increase water supply reliability;
- § Strategically restore and replace wastewater infrastructure;
- § Ensure adequacy of water and wastewater facilities in disadvantaged communities;
- § Improve surface and ocean water quality and reduce beach closures;
- § Define groundwater contamination sources and prevention strategies;
- § Protect, restore, and enhance ecological processes in aquatic areas;
- § Ensure adequacy of water supplies during emergencies;
- § Develop programs and policies to increase groundwater recharge or decrease groundwater use; and
- § Encourage interagency cooperation in beginning to develop groundwater banking programs.

WHEREAS, the widespread adoption of the SBCIRWMP will ensure multi-agency participation in future water management planning efforts in the Santa Barbara County region; and

WHEREAS, District legal counsel has determined that adoption of the SBCIRWMP is exempt from the requirements of California Environmental Quality Act (CEQA).

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF DIRECTORS OF CARPINTERIA VALLEY WATER DISTRICT AS FOLLOWS:

The Carpinteria Valley Water District hereby adopts the Santa Barbara Countywide Integrated Regional Water Management Plan dated May 2007 and directs the General Manager to file a Notice of Exemption in accordance with the provisions of CEQA.

PASSED, APPROVED AND ADOPTED this 20th day of June, 2007, by the following vote:

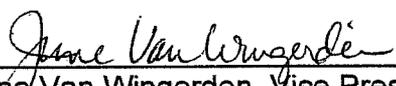
AYES: Van Wingerden, Roberts, Drain, Lieberknecht

NAYES: None

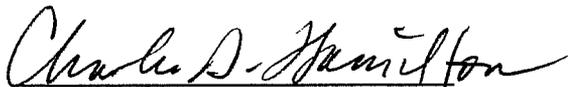
ABSENT: Lemere

ABSTAIN: None

Resolution Number 849 was declared approved and adopted.



June Van Wingerden, Vice President



Charles B. Hamilton, Secretary

CASMALIA COMMUNITY SERVICES DISTRICT
P.O. BOX 207
CASMALIA, CA 93429

Resolution Adopting the Santa Barbara Countywide
Integrated Regional Water Management Plan

Whereas, in November 2002, the California voters approved Proposition 50 (the Water Security, Clean Drinking Water, Coastal and Beach Protection Act of 2002; Water Code Section 79560 *et seq.*), which included \$500 million under Chapter 8 for projects included in an Integrated Regional Water Management Plan; and

Whereas, Proposition 50, Chapter 8 Implementation funds will only be awarded to regions with an adopted IRWMP; and

Whereas, a final IRWMP was developed in cooperation with 29 local agencies, special districts, private companies, and regional joint powers authorities as well as public participation through open meetings and public workshops; and

Whereas, the IRWMP identifies projects priority projects for local and regional agencies and districts, including the Casmalia Community Services District;

Now, therefore, be it resolved that the Board of Directors of the Casmalia Community Services District, hereby adopts the Santa Barbara Countywide Integrated Regional Water Management Plan.

Passed and Adopted this 12 day of July, 2007



William Ostini, President
Casmalia Community Services District

RESOLUTION NO. 07- 02

**RESOLUTION OF THE CENTRAL COAST WATER AUTHORITY
ADOPTING THE SANTA BARBARA COUNTYWIDE INTEGRATED
REGIONAL WATER MANAGEMENT PLAN**

WHEREAS, In November 2002, the California electorate approved Proposition 50 (the Water Security, Clean drinking Water, Coastal and Beach Protection act of 2002), which included \$500 million under Chapter 8 for projects included in an Integrated Regional Water Management Plan (IRWMP); and

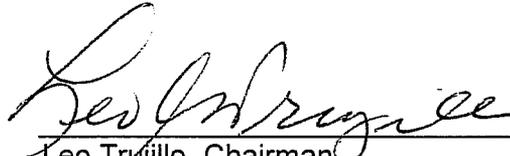
WHEREAS, Proposition 50, Chapter 8 Implementation funds will only be awarded to regions with an adopted IRWMP; and

WHEREAS, the IRWMP was developed in cooperation with 29 local agencies, special districts, private companies and regional joint powers authorities as well as public participation through 12 open noticed meetings and 8 public workshops and provides for ongoing data gathering, planning, design, implementation, and evaluation through a long term iterative, community-based process;

NOW, THEREFORE, BE IT RESOLVED, that the Board of Directors hereby adopts the Santa Barbara Countywide Integrated Regional Water Management Plan.

BE IT FURTHER RESOLVED that this Resolution shall take effect immediately.

I certify that the foregoing Resolution No. 07-02 was adopted by the Board of Directors of the Central Coast Water Authority at a meeting held June 28, 2007.


 Leo Trujillo, Chairman

[Seal]

Attest:


 William J. Brennan
 Secretary to the Board of Directors

	VOTING PERCENTAGE	AYE	NAY	ABSTAIN	ABSENT
City of Buellton	2.21%	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Carpinteria Valley Water District	7.64%	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Goleta Water District	17.20%	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
City of Guadalupe	1.15%	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Montecito Water District	9.50%	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
City of Santa Barbara	11.47%	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
City of Santa Maria	43.19%	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Santa Ynez River Water Conservation District, Improvement District No. 1	7.64%	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

RESOLUTION NO. 07-14

**A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF
BUELLTON, CALIFORNIA, ADOPTING THE SANTA BARBARA
COUNTYWIDE INTEGRATED REGIONAL WATER
MANAGEMENT PLAN**

WHEREAS, in November 2002, the California electorate approved Proposition 50 (the Water Security, Clean Drinking Water, Coastal and Beach Protection Act of 2002, Water Code Section 79560 et seq.), which included \$500 million under Chapter 8 for projects included in an Integrated Regional Water Management Plan (IRWMP); and

WHEREAS, Proposition 50 Chapter 8 implementation funds will only be awarded to regions with an adopted IRWMP; and

WHEREAS, the IRWMP was developed in cooperation with other agencies in Santa Barbara County participating under a "Memorandum of Understanding to Develop an IRWMP in Santa Barbara County"; and

WHEREAS, the first edition of the Santa Barbara Countywide IRWMP was issued in May 2007; and

WHEREAS, the widespread adoption of the Santa Barbara Countywide IRWMP will ensure multi-agency participation in future water management planning efforts in the Santa Barbara County region.

NOW, THEREFORE, BE IT RESOLVED by the City Council of the City of Buellton, California, that the City of Buellton hereby adopts the Santa Barbara Countywide IRWMP, dated May 2007.

PASSED, APPROVED, AND ADOPTED this 9th day of August, 2007.



Russ Hicks
Mayor Pro Tem

ATTEST:



Steven L. Thompson
City Clerk

CERTIFICATION

I, STEVEN L. THOMPSON, duly appointed City Clerk of the City of Buellton, California, do hereby certify that the attached is a true and correct copy of Resolution No. 07-14 – “A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF BUELLTON, CALIFORNIA, ADOPTING THE SANTA BARBARA COUNTYWIDE INTEGRATED REGIONAL WATER MANAGEMENT PLAN” adopted on the 9th day of August, 2007.



Steven L. Thompson
City Clerk



Date

I, Steven L. Thompson, City Clerk of the City of Buellton, do hereby certify that the foregoing Resolution was duly adopted by the City Council of the City of Buellton at the regular meeting held on the 9th day of August, 2007 by the following vote of the Council:

AYES: 4 Council Members Andrisek, Molesworth, Pointer, and Mayor Pro Tem
Hicks

NOES: 0

ABSENT: 1 Mayor Whitehair

ABSTAIN: 0



Steven L. Thompson
City Clerk

RESOLUTION NO. 5070

A RESOLUTION OF THE CITY OF CARPINTERIA CITY COUNCIL ADOPTING THE SANTA BARBARA COUNTYWIDE INTEGRATED REGIONAL WATER MANAGEMENT PLAN

WHEREAS, on November 2002, the California electorate approved Proposition 50, the Water Security, Clean Drinking Water, Coastal and Beach Protection Act of 2002 (Water Code Section 79560 et seq), which included \$500 million under Chapter 8 for projects included in an Integrated Regional Water Management Plan (IRWMP); and

WHEREAS, Proposition 50, Chapter 8 implementation funds will only be awarded to Regions with an adopted IRWMP; and

WHEREAS, the Santa Barbara Countywide IRWMP was developed with collaboration and cooperation from twenty-nine participating partner agencies in Santa Barbara County, each with an interest in regional water related issues; and

WHEREAS, adoption of Santa Barbara Countywide IRWMP by each of the participating partner agencies will validate the planning process and demonstrate the commitment to ongoing water management planning in the Region; and

WHEREAS, the City of Carpinteria may benefit through the receipt of grant funds for critical capital improvement projects through participation in the regional planning process, including adoption of the IRMWP.

NOW, THEREFORE, it is hereby resolved by the City Council of the City of Carpinteria, California, as follows:

- Finds that all of the above recitals are true and correct.
- Adopts the Santa Barbara Countywide Integrated Regional Water Management Plan.

PASSED, APPROVED AND ADOPTED this 9th day of July 2007, by the following called vote:

AYES: COUNCILMEMBERS: Clark, Armendariz, Carty, Ledbetter

NOES: COUNCILMEMBERS: None

ABSENT: COUNCILMEMBERS: Stein



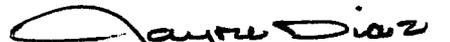
Mayor, City of Carpinteria

ATTEST:



City Clerk, City of Carpinteria

I hereby certify that the foregoing resolution was duly and regularly introduced and adopted at a regular meeting of the City Council of the City of Carpinteria held the 9th day of July, 2007.



City Clerk, City of Carpinteria

APPROVED AS TO FORM:



City Attorney

**RESOLUTION OF THE
CITY COUNCIL OF THE CITY OF GUADALUPE, SANTA BARBARA COUNTY
STATE OF CALIFORNIA**

**ADOPTING THE SANTA BARBARA)
COUNTYWIDE INTEGRATED REGIONAL)
WATER MANAGEMENT PLAN) RESOLUTION NO: 2007-11**

WHEREAS, in November 2002, the California electorate approved Proposition 50 (the Water Security, Clean Drinking Water, Coastal and Beach Protection Act of 2002 (Water Code Section 79560 et seq), which included \$500 million under Chapter 8 for projects included in an Integrated Regional Water Management Plan (IRWMP); and

WHEREAS, Proposition 50, Chapter 8 Implementation funds will only be awarded to Regions with an adopted IRWMP; and

WHEREAS, the IRWMP for Santa Barbara County area was developed through a comprehensive stakeholder process and provides for ongoing data gathering, planning, design, implementation, and evaluation through a long-term, iterative, community-based process; and

WHEREAS, widespread adoption of the Santa Barbara Countywide IRWMP ensures multi-agency participation and future water management planning efforts in the Region; and

NOW, THEREFORE BE IT RESOLVED, that the City Council of the City of Guadalupe, Santa Barbara County hereby finds, determines, and declares as follows:

1. All of the above recitals are true and correct.
2. Hereby adopts the Santa Barbara Countywide Integrated Regional Water Management Plan.

PASSED, APPROVED, AND ADOPTED by the City Council of the City of Guadalupe, Santa Barbara County, State of California, on this 26th day of June, 2007 by the following vote: Motion: Julian/Ponce

AYES: 5

NAYS:

ABSENT:

ABSTAIN:

ATTEST:

By: 
City Clerk

COPY

CERTIFIED COPY

RESOLUTION NO. 5414(07)

**A Resolution Of The Council Of The City Of Lompoc,
County of Santa Barbara, State of California,
Adopting The Santa Barbara Countywide
Integrated Regional Water Management Plan**

WHEREAS, in November 2002, the California electorate approved Proposition 50 (the Water Security, Clean Drinking Water, Coastal and Beach Protection Act of 2002 (Water Code Section 79560 et seq), which included \$500 million under Chapter 8 for projects included in an Integrated Regional Water Management Plan (IRWMP); and

WHEREAS, Proposition 50, Chapter 8 Implementation funds will only be awarded to Regions with an adopted IRWMP; and

WHEREAS, the IRWMP for Santa Barbara County area was developed through a comprehensive stakeholder process and provides for ongoing data gathering, planning, design, implementation, and evaluation through a long-term, iterative, community-based process; and

WHEREAS, widespread adoption of the Santa Barbara Countywide IRWMP ensures multi-agency participation and future water management planning efforts in the Region; and

NOW, THEREFORE, BE IT RESOLVED, that the City Council of the City of Lompoc hereby finds, determines, and declares as follows:

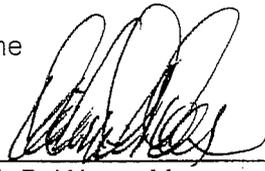
1. All of the above recitals are true and correct.
2. The Santa Barbara Countywide Integrated Regional Water Management Plan is hereby adopted.

The above and foregoing Resolution was proposed by Councilmember Holmdahl, seconded by Councilmember Siminski, and was duly passed and adopted by the Council of the City of Lompoc at its regular meeting on June 19, 2007, by the following electronic vote:

AYES: Councilmember(s): DeWayne Holmdahl, Ann Ruhge, Will Schuyler, Mike Siminski, and Mayor Dick DeWees.

NOES: Councilmember(s): None

ABSENT: Councilmember(s): None



Dick DeWees, Mayor
City of Lompoc

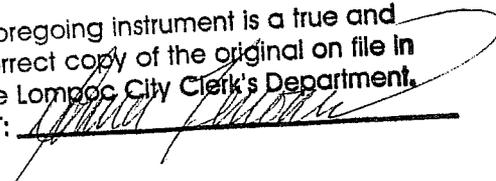
ATTEST:


Donna Terrones
City Clerk, City of Lompoc

I HEREBY CERTIFY THAT THE

foregoing instrument is a true and correct copy of the original on file in the Lompoc City Clerk's Department.

ATTEST:



RESOLUTION NO. 07-059

A RESOLUTION OF THE COUNCIL OF THE CITY OF
SANTA BARBARA ADOPTING THE SANTA BARBARA
COUNTYWIDE INTEGRATED REGIONAL WATER
MANAGEMENT PLAN

WHEREAS, in November 2002, the California electorate approved Proposition 50 (the Water Security, Clean Drinking Water, Coastal and Beach Protection Act of 2002, Water Code Section 79560 et seq), which included \$500 million under Chapter 8 for projects included in an Integrated Regional Water Management Plan (IRWMP);

WHEREAS, Proposition 50, Chapter 8 Implementation funds will only be awarded to Regions with an adopted IRWMP, and other recently adopted State water bond measures include similar IRWMP requirements;

WHEREAS, staff of the City of Santa Barbara, along with other public agencies in Santa Barbara County, have participated as Cooperating Partners under a "Memorandum of Understanding (MOU) to Develop an Integrated Regional Water Management Plan (IRWMP) in Santa Barbara County" and have completed the first edition of the Santa Barbara Countywide Integrated Regional Water Management Plan (SBCIRWMP), dated May 2007;

WHEREAS, Table 7-1, "Integration of Water Management Strategies, Regional Priorities, and Objectives –Short Term Priorities (5 years)" of the SBCIRWMP appropriately identifies Regional Priorities for water management, summarized as follows:

- Reduce the potential for flooding;
- Increase water supply reliability;
- Strategically restore and replace wastewater infrastructure;
- Ensure adequacy of water and wastewater facilities in disadvantaged communities;
- Improve surface and ocean water quality and reduce beach closures;
- Define groundwater contamination sources and prevention strategies;
- Protect, restore, and enhance ecological processes in aquatic areas;
- Ensure adequacy of water supplies during emergencies;
- Develop programs and policies to increase groundwater recharge or decrease groundwater use; and
- Encourage interagency cooperation in beginning to develop groundwater banking programs.

WHEREAS, the widespread adoption of the SBCIRWMP will ensure multi-agency participation in future water management planning efforts in the Santa Barbara County region; and

WHEREAS, the Environmental Analyst has determined that adoption of the SBCIRWMP is exempt from the requirements of California Environmental Quality Act (CEQA).

NOW, THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE CITY OF SANTA BARBARA AS FOLLOWS:

The City of Santa Barbara hereby adopts the Santa Barbara Countywide Integrated Regional Water Management Plan dated May 2007 and directs the Environmental Analyst to file a Notice of Exemption in accordance with the provisions of CEQA.

RESOLUTION NO. 07-059

STATE OF CALIFORNIA)
)
COUNTY OF SANTA BARBARA) ss.
)
CITY OF SANTA BARBARA)

I HEREBY CERTIFY that the foregoing resolution was adopted by the Council of the City of Santa Barbara at a meeting held on June 26, 2007, by the following roll call vote:

- AYES: Councilmembers Brian B. Barnwell, Iya G. Falcone, Roger L. Horton, Grant House, Helene Schneider, Das Williams; Mayor Marty Blum
- NOES: None
- ABSENT: None
- ABSTENTIONS: None

IN WITNESS WHEREOF, I have hereto set my hand and affixed the official seal of the City of Santa Barbara on June 27, 2007.


Cynthia M. Rodriguez
Cynthia M. Rodriguez, CMC
City Clerk/Services Manager

I HEREBY APPROVE the foregoing resolution on June 27, 2007.

Marty Blum
Marty Blum
Mayor

RESOLUTION NO. 2007- 83

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF SANTA MARIA, CALIFORNIA, ADOPTING THE INTEGRATED REGIONAL WATER MANAGEMENT PLAN FOR SANTA BARBARA COUNTY AND AUTHORIZING THE DIRECTOR OF UTILITIES AND ADMINISTRATIVE SERVICES TO EXPEND THE CITY'S PROPORTIONATE SHARE OF THE COSTS ASSOCIATED WITH THE PREPARATION OF A PROPOSITION 50 GRANT APPLICATION FOR ROUND TWO STEP ONE AND TWO OF THIS FUNDING

WHEREAS, in November 2002, the California voters approved Proposition 50, also known as the Water Security, Clean Drinking Water, Coastal Beach Protection Act of 2002; and

WHEREAS, Proposition 50 funds will only be awarded to regions with an adopted Integrated Regional Water Management Plan; and

WHEREAS, the Integrated Regional Water Management Plan was developed through a comprehensive stakeholder process which included a planning process that involved the coordination of regional partners to determine the best objectives for the plan; and

WHEREAS, the wide-spread adoption of the Integrated Regional Water Management Plan ensures multi-agency participation and future water management planning efforts in the region; and

WHEREAS, the Integrated Regional Water Management Plan is California Environmental Quality Act Exempt;

NOW, THEREFORE, IT IS HEREBY RESOLVED by the City Council of the City of Santa Maria, California, as follows:

1. The City Council hereby approves the Integrated Regional Water Management Plan in Santa Barbara County (IRWMP), contingent upon the approval of the IRWMP by the County Board of Supervisors; and
2. The Director of Utilities and the Director of Administrative Services are hereby authorized to expend the City's proportionate share of the costs associated with the preparation of a Proposition 50 (Prop 50) grant application for Round Two, Step One and Two of this funding.

PASSED AND ADOPTED at a regular meeting of the City Council of the City of Santa Maria held this 19th day of June, 2007.

STATE OF CALIFORNIA)
COUNTY OF SANTA BARBARA) ss.
CITY OF SANTA MARIA)

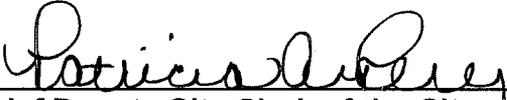
I, PATRICIA A. PEREZ, Chief Deputy City Clerk of the City of Santa Maria and ex officio Clerk of the City Council DO HEREBY CERTIFY that the foregoing is a full, true and correct copy of Resolution No. 2007-83 which was duly and regularly introduced and adopted by said City Council at a regular meeting held June 19, 2007, and carried on the following vote:

AYES: Councilmembers Orach, Patino, Zacarias, and Mayor Lavagnino.

NOES: None.

ABSENT: Councilmember Trujillo.

ABSTAIN: None.



Chief Deputy City Clerk of the City of Santa Maria
and ex officio Clerk of the City Council

RESOLUTION 07-781

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF SOLVANG ADOPTING THE SANTA BARBARA COUNTYWIDE INTEGRATED REGIONAL WATER MANAGEMENT PLAN

WHEREAS, in November 2002, the California electorate approved Proposition 50 (the Water Security, Clean Drinking Water, Coastal and Beach Protection Act of 2002, Water Code Section 79560 et seq), which included \$500 million under Chapter 8 for projects included in an Integrated Regional Water Management Plan (IRWMP); and

WHEREAS, Proposition 50, Chapter 8 Implementation funds will only be awarded to Regions with an adopted IRWMP, and other recently adopted State water bond measures include similar IRWMP requirements; and

WHEREAS, staff of the City of Solvang, along with other public agencies in Santa Barbara County, have participated as Cooperating Partners under a “Memorandum of Understanding (MOU) to Develop an Integrated Regional Water Management Plan (IRWMP) in Santa Barbara County” and have completed the first edition of the Santa Barbara Countywide Integrated Regional Water Management Plan (SBC IRWMP), dated May 2007; and

WHEREAS, Table 7-1, “Integration of Water Management Strategies, Regional Priorities, and Objectives –Short Term Priorities (5 years)” of the SBC IRWMP appropriately identifies Regional Priorities for water management, summarized as follows:

- Reduce the potential for flooding;
- Increase water supply reliability;
- Strategically restore and replace wastewater infrastructure;
- Ensure adequacy of water and wastewater facilities in disadvantaged communities;
- Improve surface and ocean water quality and reduce beach closures;
- Define groundwater contamination sources and prevention strategies;

- Protect, restore, and enhance ecological processes in aquatic areas;
- Ensure adequacy of water supplies during emergencies;
- Develop programs and policies to increase groundwater recharge or decrease groundwater use; and
- Encourage interagency cooperation in beginning to develop groundwater banking programs. and

WHEREAS, the widespread adoption of the SBC IRWMP will ensure multi-agency participation in future water management planning efforts in the Santa Barbara County region.

NOW, THEREFORE, BE IT RESOLVED by the City Council of the City of Solvang that the City of Solvang hereby adopts the Santa Barbara Countywide Integrated Regional Water Management Plan dated May 2007.

PASSED. APPROVED AND ADOPTED this 23rd day of July 2007, by the following vote:

AYES: Mayor Palmer, Council Members Boyle, Jackson, Richardson and Skytt

NOES:

ABSTAIN:

ABSENT:



Mayor

ATTEST:



Mary Ellen Rio, City Clerk

CUYAMA COMMUNITY SERVICES DISTRICT

4885 Primero Street, P.O. Box 368
New Cuyama, California 93254
Phone (661) 766-2780 Fax (661) 766-2632
E-mail ccsd@inreach.com

**RESOLUTION ADOPTING THE SANTA BARBARA COUNTYWIDE
INTEGRATED REGIONAL WATER MANAGEMENT PLAN**

WHEREAS, in November 2002, the California voters approved Proposition 50 (the Water Security, Clean Drinking Water, Coastal and Beach Protection Act of 2002; Water Code Section 79560 *et seq.*), which included \$500 million under Chapter 8 for projects included in an Integrated Regional Water Management Plan; and

WHEREAS, Proposition 50, Chapter 8 implementation funds will only be awarded to regions with an adopted IRWMP; and

WHEREAS, a final IRWMP was developed in cooperation with 29 local agencies, special districts, private companies, and regional joint powers authorities, as well as public participation through open meetings and public workshops; and

WHEREAS, the IRWMP identifies the priority projects, the Wastewater Treatment Plant Effluent Disposal Project and the Water Tower Repair Project, of Cuyama Community Services District;

BE IT THEREFORE RESOLVED that the Board of Directors of the Cuyama Community Services District hereby adopts the Santa Barbara Countywide Integrated Regional Water Management Plan.

PASSED AND ADOPTED this 11th day of July, 2007.



Malcolm Ricci, Chairman
Cuyama Community Services District

RESOLUTION NO. 07-459

RESOLUTION OF THE GOLETA SANITARY DISTRICT BOARD OF DIRECTORS ADOPTING THE INTEGRATED REGIONAL WATER MANAGEMENT PLAN PREPARED BY THE SANTA BARBARA COUNTYWIDE REGION

WHEREAS, in November 2002, the California electorate approved Proposition 50 (the Water Security, Clean Drinking Water, Coastal and Beach Protection Act of 2002 (Water Code Section 79560 et seq), which included \$500 million under Chapter 8 for projects included in an Integrated Regional Water Management Plan (IRWMP); and

WHEREAS, Proposition 50, Chapter 8 Implementation funds will only be awarded to Regions with an adopted IRWMP; and

WHEREAS, the IRWMP for Santa Barbara County area was developed through a comprehensive stakeholder process and provides for ongoing data gathering, planning, design, implementation, and evaluation through a long-term, iterative, community-based process; and

WHEREAS, widespread adoption of the Santa Barbara Countywide IRWMP ensures multi-agency participation and future water management planning efforts in the Region; and

NOW, THEREFORE BE IT RESOLVED, that the Board of Directors of the Goleta Sanitary District hereby finds, determines, and declares as follows:

1. All of the above recitals are true and correct.
2. Hereby adopts the Santa Barbara Countywide Integrated Regional Water Management Plan.

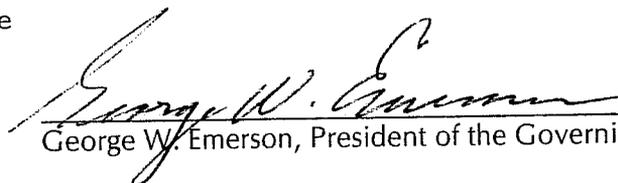
PASSED, APPROVED, AND ADOPTED by the Board of Directors of the Goleta Sanitary District on this 2nd day of July, 2007 by the following vote:

AYES: Emerson, Trantow, Fox, Carter, Majoewsky

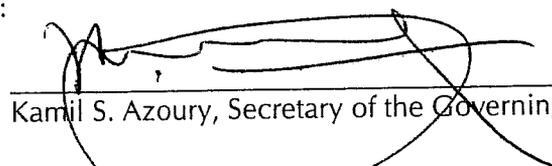
NOES: None

ABSENT: None

ABSTAIN: None


George W. Emerson, President of the Governing Board

Countersigned:


Kamil S. Azoury, Secretary of the Governing Board

RESOLUTION NO. 2007-13

**A RESOLUTION OF THE GOLETA WATER DISTRICT BOARD OF DIRECTORS
ADOPTING THE INTEGRATED REGIONAL WATER MANAGEMENT PLAN
PREPARED BY THE SANTA BARBARA COUNTYWIDE REGION, AND
AUTHORIZING A CEQA NOTICE OF EXEMPTION**

BE IT RESOLVED, THAT THE GOLETA WATER DISTRICT BOARD OF DIRECTORS
HEREBY FINDS, DETERMINES, AND DECLARES AS FOLLOWS:

1. In November 2002, the California electorate approved Proposition 50, the Water Security, Clean Drinking Water, Coastal and Beach Protection Act of 2002 (Water Code Section 79560 et seq), which included \$500 million under Chapter 8 for projects included in an Integrated Regional Water Management Plan (IRWMP).
2. Proposition 50, Chapter 8 Implementation funds will only be awarded to Regions with an adopted IRWMP.
3. The IRWMP for the watersheds of Santa Barbara County was developed through a comprehensive stakeholder process and provides for ongoing data gathering, planning, design, implementation, and evaluation through a long-term, iterative, community-based process.
4. The widespread adoption of the Santa Barbara Countywide IRWMP ensures multi-agency participation and future water management planning efforts in the Region.
5. The IRWMP is exempt from the California Environmental Quality Act (CEQA) because the Plan is only a planning study which identifies potential projects, programs, and policies for possible future actions.
6. The Goleta Water District Board of Directors hereby adopts the Santa Barbara Countywide Integrated Regional Water Management Plan.
7. The General Manager is hereby authorized and directed to file a Notice of Exemption in accordance with provisions of the California Environmental Quality Act.

PASSED AND ADOPTED by the Board of Directors of the Goleta Water District this 12th day of June 2007 by the following roll call vote:

AYE: Directors Bertrando, Cunningham, De Witt, Evans, Mills

NAY: None

ABSENT: None

ABSTAIN: None

ATTEST: None



**BETH HORN
DISTRICT SECRETARY**


**CHUCK EVANS, PRESIDENT
BOARD OF DIRECTORS**

RESOLUTION NO. 07-707

**A RESOLUTION OF THE BOARD OF DIRECTORS
OF THE GOLETA WEST SANITARY DISTRICT
ADOPTING AN INTEGRATED REGIONAL WATER
MANAGEMENT PLAN**

WHEREAS, in November 2002, the California electorate approved multiple statewide bond measures to fund water and natural resources projects and programs, including \$3.44 billion under Proposition 50, the Water Security, Clean Drinking Water, Coastal and Beach Protection Act of 2002 (Water Code Section 79560 *et seq.*);

WHEREAS, Proposition 50 included \$500 million under Chapter 8 for projects included in Integrated Regional Water Management Plans (IRWMP); and

WHEREAS, the benefits of integrated planning for water management activities include increased efficiency and effectiveness, enhanced collaboration across agencies and stakeholders, and improved responsiveness to regional needs and priorities; and

WHEREAS, Proposition 50's Chapter 8 funds will only be awarded to regions which have adopted an IRWMP; and

WHEREAS, Santa Barbara County, cities, special districts (including Goleta West Sanitary District), joint powers authorities and private companies developed an IRWMP applicable across the county (Region) called the "Santa Barbara Countywide Integrated Regional Water Management Plan" (SBCIRWMP) as a planning document that identifies a broadly supported vision, guiding principles, goals, objectives and projects to enhance the beneficial uses of water for the Region; and

WHEREAS, the SBCIRWMP was developed through a comprehensive stakeholder process in which the public had opportunities to ask questions, provide comments and make recommendations, all of which were considered prior to preparation of the final SBCIRWMP; and

WHEREAS, the purpose of the SBCIRWMP is to ensure multi-agency participation in future water management planning efforts in the Region; and

WHEREAS, the County of Santa Barbara, as lead agency, has prepared a Notice of Exemption for the SBCIRWMP in accordance with CEQA; and

WHEREAS, the SBCIRWMP is meant to be complimentary to participating agencies' individual plans and programs and does not supersede such plans and programs, and the adoption of

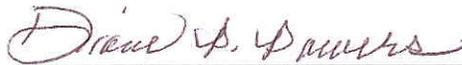
the SBCIRWMP does not prohibit or affect in any way a participating agency's planning efforts separate from that SBCIRWMP.

NOW, THEREFORE, BE IT RESOLVED, that the Board of Directors of the Goleta West Sanitary District hereby finds, determines and declares as follows:

1. The foregoing recitals are true and correct.
2. The District Board of Directors hereby adopts the SBCIRWMP in the form presented to the Board at this meeting.

THE FOREGOING RESOLUTION was adopted at the regular meeting of the District Board held on the 3rd day of July, 2007 by the following vote:

AYES:	Bearman, Geyer, Lewis, McFarland, Meyer
NOES:	None
ABSENT:	None
ABSTAIN:	None



Diane P. Powers, Secretary

ATTEST: (SEAL)



Larry D. Meyer, President

La Cumbre Mutual Water Company
Board of Directors – June 19, 2007

It was moved by Mr. Sands, seconded by Mr. Wathne, to receive and file the report as presented. Motion carried.

March-April 2007 Financial Statement & Cash Report

It was moved by Mr. Sands, seconded by Mr. Wathne, to receive and file March-April 2007 Financial Statement & Cash Report as recommended by the Finance Committee. Motion carried.

2006 Audited Financial Statement

It was moved by Mr. Sands, seconded by Mr. Wathne, to receive and file the 2006 Audited Financial Statement as prepared by CPA Gary Smith. Motion carried. Copies of the Statement will be available at the Annual Meeting.

Approval of Integrated Regional Water Management Plan (IRWiMP)

The County of Santa Barbara requires approval of the Plan by all Districts participating in creating the plan. Board members each received a copy for review. It was moved by Mr. Wathne, seconded by Mr. Sands, to approve the Integrated Regional Water Management Plan as prepared. Motion carried.

Annual Meeting – Tuesday June 26th 7:00 PM at the Vieja Valley School

The format of the meeting was discussed and reports assigned.

General Manager's Report

A. State Water Cutback Memo

Mr. Alvarado is requesting that the City of Santa Barbara transfer 310 AF of state water to La Cumbre at an extra cost of \$25.00/AF in addition to the normal CCWA delivery cost. It was moved by Mr. Sands, seconded by Mr. Wathne, to direct the General Manager to negotiate the purchase of additional water from the City of Santa Barbara in light of the letter dated 6/11/07 from the CCWA indicating cutbacks are yet to be determined.

B. Edison Rate Structure

La Cumbre Mutual Water Company signed a new Edison rate schedule for the Tranquila booster station. The new rate will allow La Cumbre to save an estimated \$6,109.60 per year.

Committee Reports

A. Long-Range Planning

RESOLUTION NO. 2032

**RESOLUTION OF THE BOARD OF DIRECTORS
OF THE MONTECITO WATER DISTRICT ADOPTING
THE SANTA BARBARA COUNTYWIDE INTEGRATED REGIONAL
WATER MANAGEMENT PLAN**

WHEREAS, In November 2002 the California electorate approved Proposition 50, (the Water Security, Clean Drinking Water, Coastal and Beach Protection Act of 2002, Water Code Section 79560 et seq), which included \$500 million under Chapter 8 for projects included in an Integrated Regional Water management Plan (IRWMP); and

WHEREAS, Proposition 50, Chapter 8 Implementation funds will only be awarded to Regions with an adopted IRWMP, and other recently adopted State water bond measures include similar IRWMP requirements; and

WHEREAS, staff of the Montecito Water District, along with other public agencies in Santa Barbara County, have participated as Cooperating Partners under a “Memorandum of Understanding (MOU) to Develop an Integrated Regional Water Management Plan (IRWMP) in Santa Barbara County” and have completed the first edition of the Santa Barbara Countywide Integrated Regional Water Management Plan (SBCIRWMP), dated May 2007; and

WHEREAS, Table 7-1, “Integration of Water Management Strategies, Regional Priorities, and Objectives –Short Term Priorities (5 years)” of the SBCIRWMP appropriately identifies Regional Priorities for water management, summarized as follows:

- Reduce the potential for flooding;
- Increase water supply reliability;
- Strategically restore and replace wastewater infrastructure;
- Ensure adequacy of water and wastewater facilities in disadvantaged communities;
- Improve surface and ocean water quality and reduce beach closures;
- Define groundwater contamination sources and prevention strategies;
- Protect, restore, and enhance ecological processes in aquatic areas;
- Ensure adequacy of water supplies during emergencies;
- Develop programs and policies to increase groundwater recharge or decrease groundwater use; and
- Encourage interagency cooperation in beginning to develop groundwater banking programs; and

WHEREAS, the widespread adoption of the Santa Barbara County IRWMP ensures multi-agency participation and future water management planning efforts in the Region; and

WHEREAS, adoption of the SBCIRWMP is exempt from the requirements of California Environmental Quality Act (CEQA) pursuant to CEQA Guidelines Section 15262 because the IRWMP is a planning study which identifies potential projects, programs, and policies for possible future actions; and Sections 15306, 15307, and 15308 because the IRWMP consists of basic data and information collection and includes possible actions, subject to future adoption and approval, which would protect natural resources and the environment.

NOW, THEREFORE, BE IT RESOLVED That THE BOARD OF DIRECTORS OF THE MONTECITO WATER DISTRICT hereby finds, determines, and declares as follows:

Board of Directors of the Montecito Water District hereby adopts the Santa Barbara Countywide Integrated Regional Water Management Plan.

The vote on Resolution No. 2032 by roll call resulted as follows:

AYES: Directors Abel, Frye, Morgan, and Wilson

NOES: None

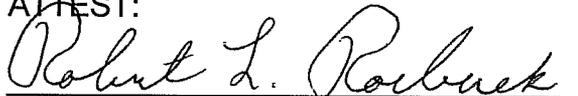
ABSENT: Director Shaikewitz

PASSED, APPROVED AND ADOPTED by the Board of Directors of the Montecito Water District this 19th day of June 2007.

APPROVED:


Jan E. Abel, President

ATTEST:


Robert L. Roebuck, Secretary

RESOLUTION NO. 613

**RESOLUTION OF THE BOARD OF DIRECTORS OF
THE SANTA YNEZ RIVER WATER CONSERVATION DISTRICT
ADOPTING THE SANTA BARBARA COUNTYWIDE
INTEGRATED REGIONAL WATER MANAGEMENT PLAN
PREPARED BY THE TWENTY-NINE COOPERATING PARTNERS
IN SANTA BARBARA COUNTY**

WHEREAS, in November 2002, the California electorate approved Proposition 50, the Water Security, Clean Drinking Water, Coastal and Beach Protection Act of 2002 (Water Code Section 79560 et seq.), which included \$500 million under Chapter 8 for projects included in an Integrated Regional Water Management Plan (IRWMP); and

WHEREAS, Proposition 50, Chapter 8 Implementation funds will only be awarded to regions with an adopted IRWMP; and

WHEREAS the Santa Barbara Countywide IRWMP was developed through a comprehensive stakeholder process and provides for ongoing data gathering, planning, design, implementation, and evaluation through a long-term iterative, community-based process; and

WHEREAS, the widespread adoption of the Santa Barbara Countywide IRWMP ensures multi-agency participation and future water management planning efforts in the Region; and

WHEREAS, the Santa Barbara County staff has reviewed the Santa Barbara Countywide IRWMP, and has determined that the IRWMP is exempt from the California Environmental Quality Act (CEQA) pursuant to CEQA Guidelines; and

WHEREAS, Santa Barbara County will prepare and file a Notice of Exemption for the Santa Barbara Countywide IRWMP in accordance with CEQA and the County's procedures on behalf of the twenty-nine cooperating partners for implementation of CEQA.

WHEREAS, the Board of Directors notes that it cannot presently verify certain factual information in Said Plan, which in some circumstances may require further analysis, including the status of groundwater basins within its jurisdiction.

NOW, THEREFORE, BE IT RESOLVED, that the Board of Directors of the Santa Ynez River Water Conservation District hereby finds, determines and declares as follows:

1. All of the above recitals are true and correct.
2. The Board of Directors hereby adopts the Santa Barbara Countywide Integrated Regional Water Management Plan.

WE, THE UNDERSIGNED, being the duly qualified and acting President and Secretary, respectively, of the Board of Directors of the Santa Ynez River Water Conservation District do hereby certify that the above and foregoing resolution was duly adopted and passed by the Board of Directors of said District at a regular meeting duly held on the 6th day of June, 2007, by the following roll call vote:

AYES, and in favor thereof, Directors:

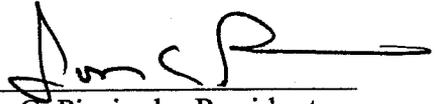
Art Hibbits
Steve Jordan
Wallace Marsh
Jeffrey Newton
Jon Picciuolo

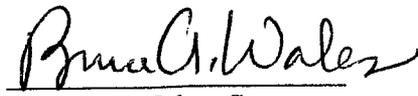
NOES, Directors:

None

ABSENT/ABSTAINING, Directors:

None



Jon C. Picciuolo, President

Bruce A. Wales, Secretary

A RESOLUTION OF THE BOARD OF TRUSTEES
OF THE SANTA YNEZ RIVER WATER CONSERVATION DISTRICT
IMPROVEMENT DISTRICT NO. 1
ADOPTING THE INTEGRATED REGIONAL WATER MANAGEMENT PLAN FOR THE
SANTA BARBARA COUNTY REGION

WHEREAS, In November 2002, the California electorate approved Proposition 50, (the Water Security, Clean Drinking Water, Coastal and Beach Protection Act of 2002 (Water Code Section 79560 et seq), which included \$500 million under Chapter 8 for projects included in an Integrated Regional Water Management Plan (IRWMP); and

WHEREAS, Proposition 50, Chapter 8 Implementation funds will only be awarded to Regions with an adopted IRWMP; and

WHEREAS, on August 15, 2006, the Santa Ynez River Water Conservation District, Improvement District No. 1 Board of Trustees approved the Memorandum of Understanding to develop an IRWMP as a cooperating partner; and

WHEREAS, the IRWMP for the Santa Barbara County Region was developed through a comprehensive stakeholder process and provides for ongoing data gathering, planning, design, implementation, and evaluation through a long-term, community-based process; and

WHEREAS, the widespread adoption of the Santa Barbara County IRWMP ensures multi-agency participation and future water management planning efforts in the Region; and

WHEREAS, the Board of Trustees has reviewed the Santa Barbara County IRWMP, and has determined that the IRWMP is exempt from the California Environmental Quality Act (CEQA) pursuant to CEQA Guidelines Section 15262 because the Plan is a planning study which identifies potential projects, programs, and policies for possible future actions; and Sections 15306, 15307, and 15308 because the Plan consists of basic data and information collection and includes possible actions, subject to future adoption and approval, which would protect natural resources and the environment; and

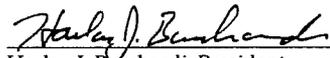
WHEREAS, the General Manager will prepare a Notice of Exemption for the Santa Barbara County Integrated Regional Water Management Plan in accordance with CEQA and the District's procedures for the Implementation of CEQA; and

NOW, THEREFORE, BE IT RESOLVED, that Board of Trustees of the Santa Ynez River Water Conservation District, Improvement District No. 1 hereby finds, determines, and declares as follows:

1. All of the above recitals are true and correct.
2. The adoption of the Santa Barbara County IRWMP is hereby determined to be exempt from the requirements of CEQA pursuant to Sections 15252, 15306, 15307, and 15308 of the State CEQA Guidelines.
3. The General Manager is hereby authorized and directed to file a Notice of Exemption in accordance with provisions of the California Environmental Quality Act.
4. The Board of Trustees hereby adopts the Santa Barbara County Integrated Regional Water Management Plan.

WE, THE UNDERSIGNED, being duly qualified and acting President and General Manager/Secretary, respectively, of the Board of Trustees of the Santa Ynez River Water Conservation District, Improvement District No. 1, do hereby certify that the above and foregoing Resolution was duly and regularly adopted and passed by the Board of Trustees of said District at a regular meeting held on the 19th day of June, 2007, by the following roll call vote:

AYES, Trustees:	Harlan Burchardi Lee Bettencourt Matthew Loudon Harry Poor
NOES, Trustees:	None
ABSENT, Trustees:	Jeff Clay


Harlan J. Burchardi, President

Attest:

Chris Dahlstrom, General Manager/Secretary

VANDENBERG VILLAGE COMMUNITY SERVICES DISTRICT

3757 Constellation Road • Vandenberg Village • Lompoc, CA 93436
Telephone: (805) 733-2475 • Fax: (805) 733-2109



"Pride in Community Service"

<http://vvcasd.org>
info@vvcasd.org

RESOLUTION 178-07

June 5, 2007

BY THE BOARD OF DIRECTORS OF VANDENBERG VILLAGE COMMUNITY SERVICES DISTRICT APPROVING THE SANTA BARBARA COUNTYWIDE INTEGRATED REGIONAL WATER MANAGEMENT PLAN (IRWMP)

WHEREAS, various local agencies, special districts, private water companies, and regional joint powers authorities are responsible for managing water and wastewater in Santa Barbara County; and

WHEREAS, in August 2006 the Board of Directors of Vandenberg Village Community Services District (VVCSD) was among 29 cooperating partners that signed a memorandum of understanding (MOU) to develop a countywide IRWMP to promote integrated assessment and planning for water quantity and water quality issues; and

WHEREAS, the County Water Agency contracted with CH2MHill to conduct a series of cooperating partners meetings and stakeholder workshops that have been open to the public to gather information and suggestions that have been incorporated into the comprehensive plan; and

WHEREAS, VVCSD contributed \$4,494 toward the plan, supported and participated in its development, and nominated three projects which have been included in the plan.

NOW, THEREFORE, BE IT RESOLVED that Board of Directors of the Vandenberg Village Community Services District approves the Santa Barbara Countywide IRWMP, dated May 2007.

PASSED AND ADOPTED by the Board of Directors of the Vandenberg Village Community Services District this 5th day of June, 2007 upon motion by Director Wyckoff, seconded by Director Blair and as approved by the following vote:

Roll call vote, to wit:

AYES: Directors Blair, Brooks, Fox, Rowland and Wyckoff

NOES: None

ABSENT: None

ABSTAIN: None



Donald Rowland
Donald Rowland, President
Board of Directors

ATTEST:



Stephanie Vlahos-Rivera
Secretary to the Board of Directors

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Attachment 3 consists of the following items:

- ✓ **Work Plan.** Attachment 3 contains detailed information regarding the tasks that were and will be performed for the proposed project.

Introduction

Lower Mission Creek presents a serious flood risk to the City of Santa Barbara's residents. Over the past century, there have been no less than 20 devastating flood events. Hence, the City of Santa Barbara (City), the US Army Corps of Engineers (USACE), and the Santa Barbara County Flood Control and Water Conservation District (SBCFCWCD) have spent two decades studying and developing the *Lower Mission Creek Flood Control and Restoration Project*. The overall project would improve 1.3 miles along Mission Creek. The SBCFCWCD is submitting this grant application to fund the following 2 projects on Lower Mission Creek: Reach 1A Phase 2 (230 feet) and Reach 1B (420 feet), both of which will significantly increase the conveyance flood capacity of the channel from a 5-year event to a 20-year event and remove 11 parcels from the floodplain. The projects also provide restoration and habitat benefits which will increase water quality, improve riparian habitat, and facilitate the migration of steelhead and tidewater goby. Specifically, the projects will:

- Improve the conveyance capacity in Lower Mission Creek by 125%;
- Reduce erosion within the creek channel;
- Improve water quality;
- Enhance the natural streambed;
- Provide for fish passage;
- Improve riparian habitat.

Figure 3.1 – Overall Lower Mission Creek Project Reaches 1-7



Reach 1A Phase 2

Flood Protection

The Reach 1A Phase 2 project will restore 230 feet of the creek from Mason Street downstream to the pedestrian bridge upstream of State Street. The channel will be widened to 55 feet at the top of bank and both banks will be protected with a vegetated vertical wall with architectural sandstone. The channel will have an average depth of 11 feet. Where the Mission Creek channel meets a pedestrian bridge, it will tapered to 51 feet at the top of bank and the bridge will be protected in place and remain. The invert slope of the channel will be streamlined and excavation of up to 1 foot of streambed will occur. Rip rap toe protection will be put in place along the channel walls.

The project will increase creek conveyance to 3,400 cfs, from a 5-year storm event to a 20-year storm event, which equates to a 125% improvement in flood protection.

Photo of Lower Mission Creek – Reach 1A Phase 2 Existing Situation Looking Upstream from Pedestrian Bridge



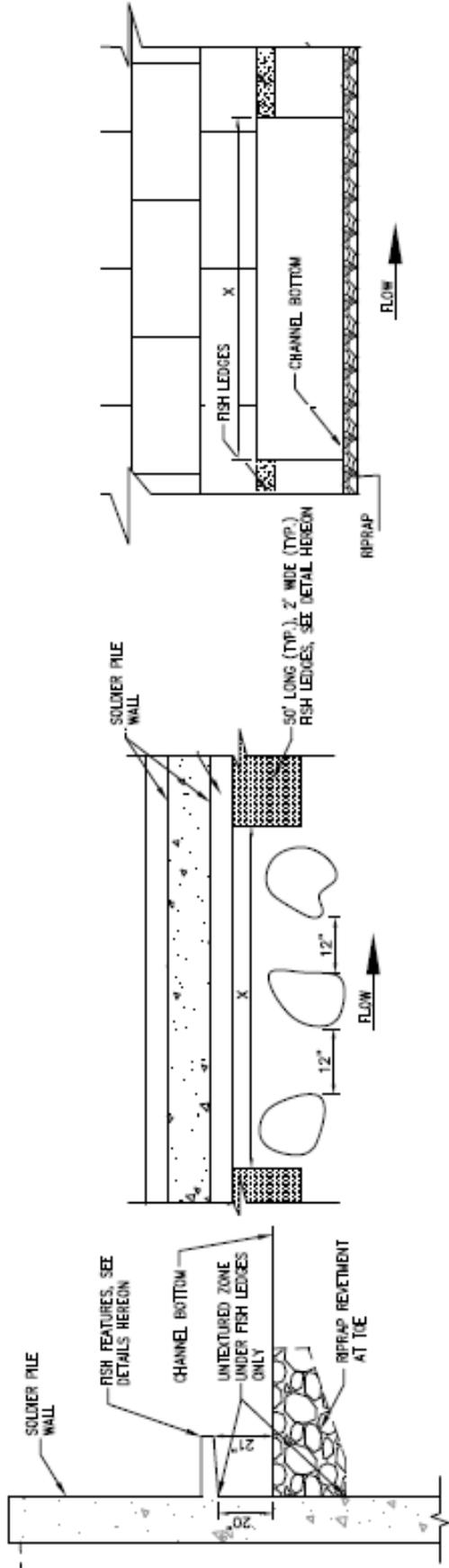
Habitat Restoration

The stabilization of the creek banks will be accompanied by restoration of the banks with native vegetation along the entire 230 foot stretch. In order to accommodate trees on the slopes, PVC pipes of varying sizes (up to a maximum of three feet in diameter) will be placed vertically in between the riprap side slope to allow planting of native trees. The trees to be planted in these pipes will be placed sparingly on the 2H: 1V slope. The riprap sideslope will be covered with topsoil and planted with ground cover and shrubs that will help develop the understory of the larger riparian canopy along the creek. The use of erosion control blankets will allow the vegetation to establish. Holes will be cut into the blanket, and plants will be installed through the holes. The plants chosen are in the drier spectrum of the riparian plant community to ensure their establishment given local climactic conditions. The plants themselves have attractive blooms, as in the case of sticky monkey flower, California rose and purple sage. Many are evergreen, such as coffeeberry, lemonadeberry and coyote bush.

A habitat expansion zone with native trees and vegetation will also be created downstream of Mason Street. Native trees, primarily western sycamores, cottonwoods, and coast live oak, will be planted in the habitat expansion zone. Native shrubs, such as seacliff buckwheat, deergrass and hummingbird sage, will also be planted.

The project will increase creek capacity to 3,400 cfs and facilitate fish passage for endangered steelhead and endangered tidewater goby. The City of Santa Barbara Creeks Division has conducted a number of studies and reports of local creeks and the restoration of steelhead populations. Mission Creek as the largest of creeks and Santa Barbara has consistently been identified as the most viable for successful restoration of steelhead, hence this project is critical in providing a local and regional benefit for an endangered population. Fish baffles and fish ledges will be provided along the channel walls directly downstream of the Mason Street Bridge. Figure 3.2 illustrates the design of the proposed fish ledges.

Figure 3.2 – Fish Ledges



Source: Lower Mission Creek Design Documentation Report, Tetra Tech, 2011

Water Quality

Water quality will be improved as a result of the project. Banks will be properly stabilized and vegetated, as opposed to the existing condition which is a patchwork of various types of bank stabilization measures that are failing. An even, vegetated riparian corridor and vegetated banks will enhance filtration, pH, and water temperature. Erosion and sedimentation will be dramatically decreased, hence water quality will increase.

Reach 1B

Flood Protection

The Reach 1B project provides for the rehabilitation and reconstruction of 420 feet of the creek from Mason Street to Yanonali Street. The channel will be widened to 55 feet at the top of bank and both banks will be protected with vertical walls. The invert slope of the channel will be streamlined and up to 1 foot of the streambed will be excavated. Approximately 200 feet of the existing right channel wall will remain in place with rip rap toe protection along the existing and proposed channel walls.

The project will increase creek conveyance to 3,400cfs, from a 5-year storm event to a 20-year storm event, which equates to a 125% improvement in flood protection.

**Photo of Lower Mission Creek - Reach 1B
Existing Situation Looking Downstream from Chapala Street Bridge**



Habitat Restoration

The stabilization of the creek banks will be accompanied by a 100-foot long habitat expansion zone with native trees and vegetation created along the east side of the creek just upstream of the Mason Street bridge. In order to accommodate trees on the slopes, PVC pipes of varying sizes (up to a maximum of three feet in diameter) will be placed vertically in between the riprap side slope to allow planting of native trees. The trees to be planted in these pipes will be placed sparingly on the 2H: 1V slope. The riprap sideslope will be covered with topsoil and planted with ground cover and shrubs that will help develop the understory of the larger riparian canopy along the creek. The use of erosion control blankets will allow the vegetation to establish. Holes will be cut into the blanket, and plants will be installed through the holes. The plants chosen are in the drier spectrum of the riparian plant community to ensure their establishment given local climactic conditions. The plants themselves have attractive blooms, as in the case of sticky monkey flower, California rose and purple sage. Many are evergreen, such as coffeeberry, lemonadeberry and coyote bush.

In order to facilitate fish passage for steelhead and tidewater goby, a fish baffle will be located directly downstream of the confluence of the existing Lower Mission Creek channel and the Oxbow Bypass. Further, a fish ledge will be located directly upstream of the fish baffle. Figure 3.2 (previous) illustrates the design of the proposed fish ledges.

Water Quality

Water quality will be improved as a result of the project. Banks will be properly stabilized and vegetated as opposed to the existing condition which is a patchwork of various types of bank stabilization measures that are failing. An even, vegetated riparian corridor and vegetated banks will enhance filtration, pH, and water temperature. Erosion and sedimentation will be dramatically decreased, hence water quality will increase.

Summary

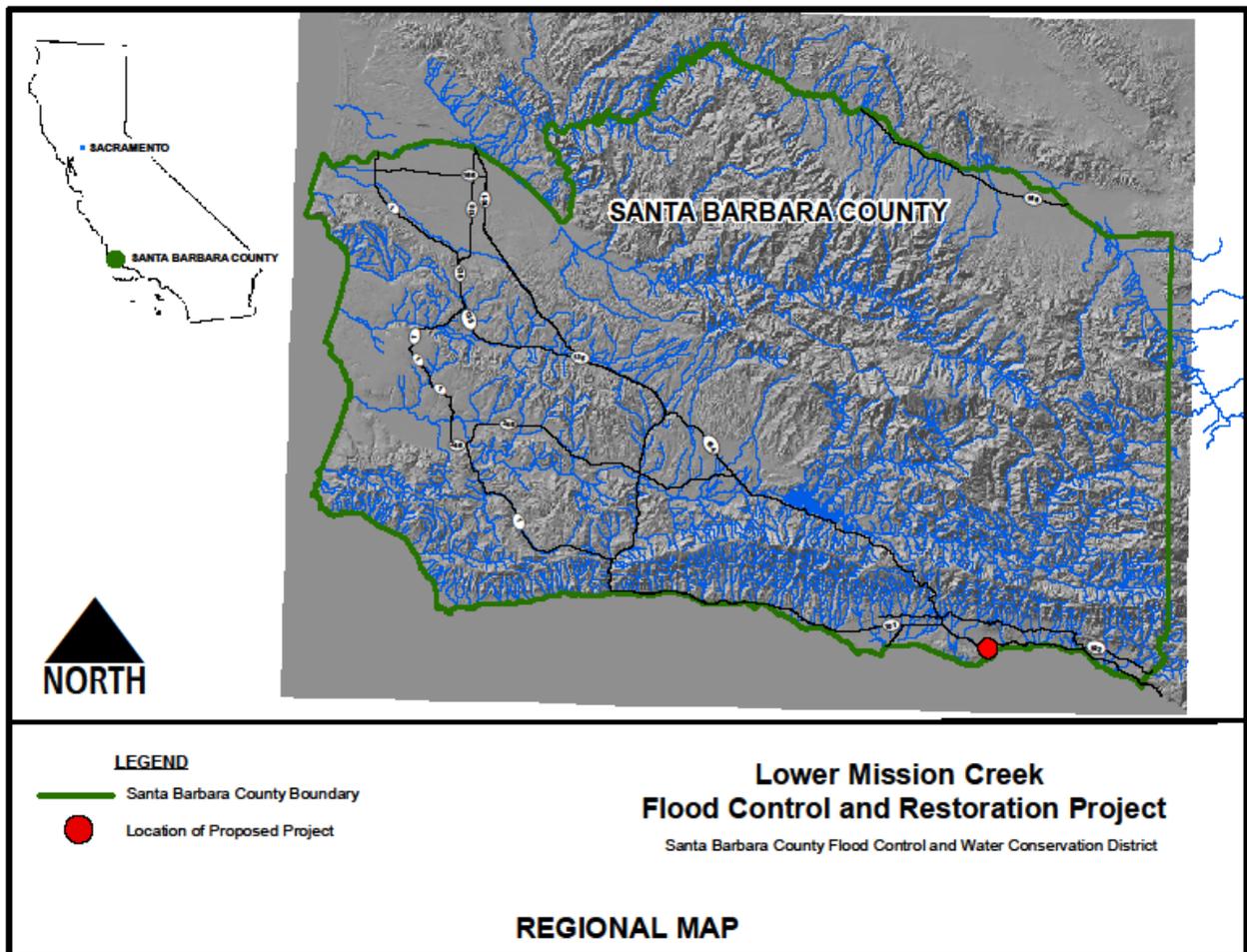
In summary, the *Lower Mission Creek Flood Control and Restoration Project*:

- improves flood flow conveyance from a 5-year event to a 20-year event or a 125% increase in conveyance capacity;
- reduces erosion and improves water quality;
- restores habitat and riparian vegetation;
- enhances natural streambed features, which promotes a healthier overall watershed; and
- provides for fish passage for steelhead and tidewater goby.

Regional Map

Figure 3.3 illustrates the location of the Lower Mission Creek Flood Control and Restoration Project. Figure 3.1 (previous) shows the location of Reach 1A Phase 2 and Reach 1B in the context of the whole creek project.

Figure 3.3 Regional Map



Goals and Objectives

Goals and Objectives of the Proposal

The goal of the Reach 1A Phase 2 and Reach 1B projects is to protect the residents of the City of Santa Barbara from the serious and present flood risk posed by Lower Mission Creek. By increasing the channel capacity from conveyance of a 5-year to a 20-year event, these projects will provide a 125% increase in conveyance capacity which will vastly improve flood protection to thousands of residents and millions of dollars of valuable property adjacent to or in the vicinity of Lower Mission Creek. The project will also

enhance riparian habitat, provide comprehensive and consistent bank stabilization that supports creek functions with the added benefit of water quality, and increase fish passage.

The objectives that the projects are seeking to achieve include:

- *Flood Control*: Increase flood flow conveyance capacity.
- *Emergency Preparedness*: Improve public safety during storm events.
- *Ecosystem Restoration*: Protect, restore and expand habitat and ecosystems.
- *Water Quality*: Protect and improve surface water quality.

Figure 3.4 Lower Mission Creek Reaches 1A Phase 2 and Reach 1B Objectives

Project Components	Project Objectives	Project Actions
Reach 1A Phase 2 and Reach 1B	1. Increase flood flow conveyance capacity	1. Widens the creek to 55 feet to increase capacity from a 5-year to a 20-year storm event (125% improvement in conveyance capacity).
	2. Improve public safety during storm events	2. Removes 11 parcels from the floodplain
	3. Protect, restore and expand habitat and ecosystems	3. Restores 520 feet of creek bank with native vegetation and removes hundreds of sq. ft. of concrete and restoration of natural creek bottom. 4. Creates habitat expansion zones. 5. Increases overall creek capacity of 3,400 cfs to facilitate the migration of steelhead and tidewater goby. 6. Provides fish baffles and fish ledge along the reached to allow for fish passage.
	4. Protect and improve surface water quality	7. Stabilizes creek walls to reduce erosion and sedimentation.

Project Goals and Objectives as Related to IRWM Plan Objectives

The SBCFCWCD is a participant in the Santa Barbara County IRWM, a member of the Cooperating Partners (the regional water management group), and a member of the Cooperating Partners Steering Committee. The IRWM Plan sets regional priorities. There are several priorities listed in the IRWM Plan that demonstrate how the *Lower Mission Creek Flood Control and Restoration Project* Reach 1A, Phase 2 and Reach 1B relate to and supports the IRWM Plan. Those regional priorities include:

- Protect public safety by reducing the potential for flooding in strategic areas through infrastructure improvements such as levee reinforcement, channel modifications, floodplain restoration, and increasing reservoir storage capacity.
- Protect, restore, and enhance ecological processes in aquatic areas through water quality improvements; public education; restoration efforts, including removal of invasive species; and improved steelhead passage on strategic creeks.

The IWRM Plan also identifies water management strategies that are to be employed in projects that implement the IRWM Plan. The *Lower Mission Creek Flood Control and Restoration Project* will employ the following strategies:

- Environmental and habitat protection and improvement
- Flood management
- Water quality protection and improvement

The Lower Mission Creek project will be consistent with five of the Santa Barbara County IRWM Plan objectives. Figure 3.5 highlights the Santa Barbara County's IRWM Plan objectives as they relate to the Lower Mission Creek Project objectives.

Figure 3.5 Santa Barbara County IRWM Plan Objectives and Project Objectives

IRWM Plan Objective	Primary IRWM Plan Objectives Implemented by Project Objectives			
	Objective 1: Increase conveyance capacity	Objective 2: Improve public safety	Objective 3: Protect habitat and ecosystems	Objective 4: Protect water quality
 Protect, restore, and enhance natural processes and habitats			✓	
 Implement flood control measures	✓	✓		
Improve emergency preparedness		✓		
 Maintain and enhance water and wastewater infrastructure efficiency and reliability.	✓	✓		
 Improve the quality of urban runoff, storm water, and wastewater			✓	✓

Purpose and Need

Since 1900, residents and property owners adjacent to or in the vicinity of Lower Mission Creek have survived approximately 20 damaging floods. The City of Santa Barbara, which has a dense urban center and a condensed urban core, boasts numerous creeks flanked by institutional, residential and commercial development, many of which frequently flood. Mission Creek is the main creek in the City and as the City has developed over time, the pressure on its creeks, particularly lower Mission Creek, has become evident.

The environmental impacts of repeated flooding, combined with urbanization and uncoordinated individual bank stabilization measures, have exacerbated flooding and flooding damage on Lower Mission Creek. In order to prevent increased flooding devastation, it is necessary to holistically address historic problems and prepare for the future, which is likely to bring more severe events.

The SBCFCWCD, the City of Santa Barbara, and the USACE embarked on a two decade long effort of reconnaissance studies, feasibility studies (Exhibits 3-A), planning efforts, public outreach and an Environmental Impact Statement/Environmental Impact Report (EIS/EIR) (Exhibit 3-B) to contemplate and best address the flood control measures and restoration

measures that best benefit the Lower Mission Creek. According to the USACE, the primary problem affecting the lower Mission Creek is the threat of flooding to property, which affects the health, safety, and well-being of the residents of the City of Santa Barbara. As such, the proposed projects has been methodically thought out and developed to provide the maximum amount of flood protection feasible to take property owners out of harm's way.

The *Lower Mission Creek Flood Control and Restoration Project* will provide improved flood protection to the thousands of residents and prevent damage to millions of dollars of valuable property. Moreover, the projects will enhance and restore deteriorated riparian habitats that will enhance channel function as opposed to undermining it. Historically, bank stabilization efforts have degraded the natural characteristics of the creek bottom by unconfined placement of concrete material in numerous locations along the creek. Persistent non-native vegetation, especially giant reed, have invaded and overwhelmed the creek's environs because of the loss of the riparian community. Inhospitable patchy bank treatments and periodic maintenance is necessary, in part, to control bank erosion and prevent further encroachment of weedy species and subsequent loss of conveyance capacity. As such, the projects provide a balanced solution to flooding that employs a sound engineering solution with a sound environment solution.

Figure 3.6 Mission Creek – January 1995, Reach 1A, 2



Lower Mission Creek Flood Control and Restoration Project - Reach 1A Phase 2 and Reach 1B

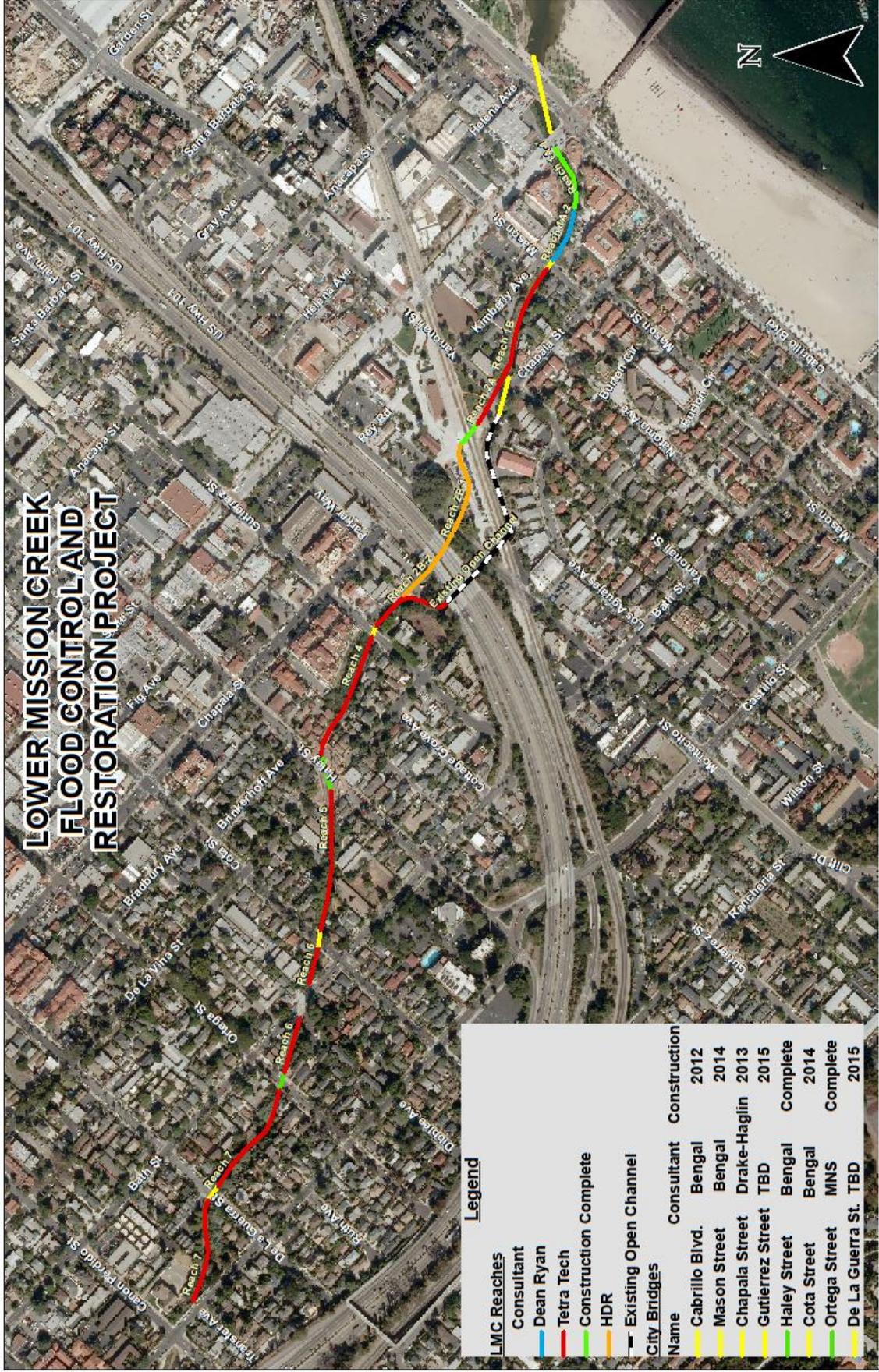
The table below provides a description of the projects, the current status of both, identifies the implementing agency, the locations of the project and the project’s relation to the State Plan of Flood Control.

Table 3.1 Project Specifics

Project	Description	
Lower Mission Creek Flood Control and Restoration Project – Reach 1A Phase 2	Abstract:	The Lower Mission Creek Flood Control and Restoration Project – Reach 1A Phase 2 provides 3,400 cfs of conveyance capacity, which represents a 125% increase over the existing condition. Furthermore, the project will provide significant riparian corridor and habitat restoration benefits which will increase water quality and provide for the passage of steelhead and tidewater goby.
	Project Specifics:	The Lower Mission Creek Flood Control and Restoration Project (Project) which entails the rehabilitation and reconstruction of Reach 1A, Phase 2 of the lower Mission Creek from Mason Street downstream (approximately 230 feet to the pedestrian bridge north of State Steer will: 1) improve flood flow conveyance from a 5-year event to a 20-year event or a 125% increase in conveyance capacity; 2) reduce erosion; 3) improve water quality; and 4) enhance natural streambed features, which promotes a healthier overall watershed and will provide habitat expansion zones. Reach 1A Phase 2 will increase overall creek capacity to 3,400 cfs, and facilitate the migration of steelhead and tidewater goby. Along this reach of the Project, the creek will be widened to 55 feet at the top of bank and both banks will be vertical with rip-rap protection. The channel will have an average depth of 11 feet. The invert slope of the channel will be streamlined and excavation of up to 1 foot of streambed will occur. Rip rap toe protection will be put in place along the channel walls.
	Status:	The project has completed 100% design and is ready to proceed with construction.
	Implementing Agencies:	The implementing agency is the Santa Barbara County Flood Control and Water Conservation District
	Location:	The City of Santa Barbara, the lower Mission Creek from Mason Street downstream (approximately 230 feet to the pedestrian bridge upstream of State Street.

Project	Description	
	State Plan of Flood Control (SPFC):	The project is located outside the Central Sacramento – San Joaquin Valley watersheds and therefore, is not part of the SPFC.
Lower Mission Creek Flood Control and Restoration Project – Reach 1B	Abstract:	The Lower Mission Creek Flood Control and Restoration Project (Project) provides for the rehabilitation and reconstruction of Reach 1B of the lower Mission Creek between Mason Street and Yanonali Street (420 feet). In specific, the benefits of the Project are: 1) improvement of flood flow conveyance from a 5-year event to a 20-year event 2) reduction of erosion; 3) expansion of aquatic habitat; and 4) improvement water quality. It also enhances the natural streambed features and provides an expanded riparian habitat area just upstream of the Mason Street Bridge. The project is part of the overall 1.3 mile Lower Mission Creek Flood Control Project, which will increase overall creek capacity to 3,400 cfs, and facilitate the migration of steelhead and tidewater goby.
	Project Specifics:	On this reach of the creek, the channel will be widened to 55 feet at the top of bank; both banks of the channel will be furnished with vertical walls and rip rap toe protection. The invert slope of the channel will be streamlined and excavation of up to 1 foot of streambed will occur and approximately 200 feet of the existing right channel wall will remain in place with rip rap toe protection along the existing and proposed channels walls. In order to facilitate fish passage, a fish baffle will be located directly downstream of the confluence of the existing Lower Mission Creek channel and the Oxbow Bypass. Further, a fish ledge will be located directly upstream of the fish baffle. Restoration of riparian properties along this stretch the channel includes a habitat expansion zone with native trees and vegetation.
	Status:	The project is at 60% design.
	Implementing Agencies:	Santa Barbara County Flood Control and Water Conservation District is the Implementing Agency
	Location:	The City of Santa Barbara, Lower Mission Creek, between Mason Street and Yanonali Street
	State Plan of Flood Control (SPFC):	The project is located outside the Central Sacramento – San Joaquin Valley watersheds and therefore, is not part of the SPFC

Project Map



Integrated Elements of Project

Since Santa Barbara County adopted its IRWM Plan in 2007 and was accepted as a region in the Regional Acceptance Process in 2009, the region has prioritized flood control as an IRWM Plan Regional Objective. The IWRM Plan identifies flooding along Lower Mission Creek as an IRWM Regional Issue and top priority project. These phases of the Lower Mission Creek provide synergy with an already completed portion of the overall *Lower Mission Creek Flood Control and Restoration Project*, Reach 1A Phase 1, which was completed with IRWM funds under Proposition 50. It also provides synergy with the San Jose Creek Capacity Improvement and Fish Passage Project in the City of Goleta that is funded under Proposition 84, Round 1. The San Jose Creek project will restore the creek channel and fortify it with pilings to accommodate water and debris associated with a 100-year storm event. A low flow fish passage channel will be installed on the east side of the flood control channel. The low flow channel will facilitate the movement of endangered steelhead trout to their historical spawning grounds. Finally, the project synergizes with the Las Vegas and San Pedro Creek projects, also seeking funding in Proposition 1E. All of these projects further advance the health and safety of residents on the south coast and mutually reinforce the emergency preparedness of communities. These projects are also linked to and are found in the Santa Barbara County Floodplain Management Task Force recommendations.

In addition, the proposed projects are consistent with the City of Santa Barbara's Local Coastal Plan (Adopted May 1991) Policy 6.8, which states that "the riparian resources, biological productivity, and water quality of the City's coastal zone creeks shall be maintained, preserved, enhanced, and, where feasible, restored." The proposed projects will preserve, enhance, and restore habitat for steelhead and tidewater goby on Mission Creek. Furthermore, the proposed projects are also consistent with the Water Quality Control Plan for the Central Coastal Basin adopted by the Regional Water Quality Control Board. The projects will facilitate the restoration of fish and wildlife habitat in a coastal watershed thereby furthering the following beneficial use objectives: cold fresh water habitat, wildlife habitat; rare, threatened or endangered species; migration of aquatic organisms; and spawning, reproduction, and/or early development. The projects achieve five of the region's nine IRWM Plan objectives including:

- Practice balanced natural resource stewardship
- Protect and improve water quality
- Improve flood management
- Improve emergency preparedness
- Maintain and enhance infrastructure efficiency and reliability

Completed Work

The history and amount of technical investigation conducted in support of the *Lower Mission Creek Flood Control and Restoration Project* is extensive and dates back to the late 1960's. The USACE first studied the flooding problems along Mission Creek in the late 1960's and an improvement plan was developed. In the early 1970's, the USACE conducted further studies in coordination with the City of Santa Barbara considering several alternatives to solve the flooding problems along the creek. In 1986, the USACE concluded a feasibility study and an alternative, referred to as the Lower Mission Creek Project, was authorized by Congress in the Water Resources Development Act of 1988. Later, the USACE published an initial Reconnaissance Study Report (November 1995), which determined that the investigation should proceed to a more detailed Feasibility Phase Study. The Feasibility Study was published in September 2000.

The County of Santa Barbara is in the process of obtaining easements and property for the construction of Reach 1A Phase 2 and Reach 1B. All easements will be obtained prior to the start of construction. The City of Santa Barbara will be purchasing APN 033-102-003 and APN 033-074-019, as well as easements across APN 033-074-005. Easements have been obtained on parcels APN 033-102-002 and APN 033-102-017. All easements and property acquisitions are required for widening the channel and constructing expanded riparian habitat areas.

Table 3-3 Land Purchased & Easements Completed or Will be Completed

Land Purchases/Easements	Date	Status
BEFORE September 1, 2013 (Reach 1B)		
APN 033-074-020 – vacant land (County, full take)		In progress
APN 033-074-021 – commercial/residential (County, easements)		In progress
APN 033-074-011 – residential (County, easements)		In progress
APN 033-074-010 – residential (County, easements)	11/30/2006	Complete
APN 033-074-009 – residential (County, easements)		In progress
APN 033-074-005 – residential (City, easements)		In progress
APN 033-074-019 – vacant land (City, full take)		In progress
AFTER September 1, 2013 (Reach 1A, Phase 2)		
033-102-003 – commercial (City, full take)		In progress
033-102-018 – commercial (County, easement)		In progress
033-102-002 – hotel (County, easement)	2010	Complete
033-102-017 – hotel (County, easement)	2004	Complete

**Table 3.4 Summary of Permits That Have Been Obtained or
Will Be Obtained by March 2013**

Permits	Schedule	Status
ACOE Section 404 Nationwide Permit	March 2013	In progress
California Fish and Wildlife 1600 Streambed Alternation Permit	December 2009	Complete
U.S. Fish & Wildlife Service Biological Opinion	June 2001	Complete
California Coastal Commission Coastal Development Permit	September 2009	Complete
California Regional Water Quality Control Board Water Quality Certification	September 2010	Complete
NOAA Biological Opinion	August 2000	Complete

The project EIR/EIS was completed by the USACE in 2000, satisfying the CEQA and NEPA requirements. A Coastal Development Permit and Consistency Certification for the overall project was approved in 2006. The project EIS/EIR was completed conjunction with the aforementioned feasibility study.

Subsequently, the USACE contracted with Dean Ryan Corporation to develop plans, specifications, and the project cost estimate for Reach 1A Phase 2. The plans were completed in November 2010. The plans are for the construction of floodwalls, fish ledges, and an expanded riparian habitat area. SBCFCWCD contracted with TetraTech to develop plans, specification and a project cost estimate for Reach 1B. The plans are in the 60% design stage. The plans are for the construction of flood walls, boulder clusters, and an expanded riparian habitat area.

The Reach 1A Phase 2 project will adhere to the following technical criteria:

- Increase capacity of creek between the Pedestrian Bridge and Mason Street, from 1,500 cfs (5-year storm event) to 3,400 cfs (20 year storm event)

The Reach 1B project is currently in design and has obtained 60% design plans. The project will adhere to the following technical criteria:

- Increase capacity of creek between Mason Street and Yanonali Street, from 1,500 cfs (5-year storm event) to 3,400 cfs (20 year storm event)

Existing Data and Studies

There have been numerous reports and studies that have been completed for the *Lower Mission Creek Flood Control and Restoration Project*. These are:

- USACE Improvement Plan for Lower Mission Creek, 1960's;
- 1986 USACE Feasibility Study, "The Lower Mission Creek Project";
- USACE Initial Reconnaissance Study Report, November 1995;
- USACE Feasibility Phase Study. September, 2000.
- USACE EIR/EIR, 2000
- 100% Design Plans for Reach 1A, Phase 2 and 60% Design Plans for Reach 1B

Project Timing and Phasing

The Reach 1A Phase 2 and Reach 1B projects are part of the overall *Lower Mission Creek Flood Control and Restoration Project* which spans 1.3 miles and contains 7 reaches. The projects addressed in this application have been under design for over 10 years. All of the initial project work has been completed. As described above, an EIR/EIR was prepared for the project in 2000 after completion of an extensive Feasibility Phase Study (2000). All permits for the project, with the exception of the USACE Clean Water Act Section 404 permit which is anticipated to be received in March 2013, where received by 2010.

Design for Reach 1A, Phase 2 is completed (100% in 2000) and is scheduled to initiate construction contracting in February 2014. The project will commence construction in April 2014 and construction is anticipated to last 261 days. Construction will be completed at the end March 2015.

Design for Reach 1B will be completed by March 2013. Presently, 60% design plans have been developed. Subsequently this Reach is scheduled to initiate the construction contracting process in April 2013 and commence construction in June 2013. Construction is anticipated to last 195 days and be completed in at the end of the month of February, 2014.

Proposed Work

The following sections outline the tasks necessary for implementation of the *Lower Project Mission Creek Flood Control and Restoration Project Reach 1A Phase 2 and Reach 1B*. The work items are divided into each of the six primary budget categories and associated tasks as shown on Table 4, page 29, of the Proposition 1E, Round 2 Stormwater Flood Management Grant PSP. Work is divided into tasks completed before the grant award date (before August 15, 2013) and after the grant award date (after August 15, 2013).

(a) Direct Project Administration Costs

Task 1: Project Administration

The project administration tasks include administration of grants and construction contracts, reviewing plans and specifications, and other administrative activities required to complete the construction phase. This project will be coordinated by a designated project manager and project coordinator employed by the District to manage both components of the Project. The project manager will be responsible for day-to-day activities of the project, organizing project meetings, all reporting to the grant agency, coordination between parties involved in project implementation, budget tracking, and compliance with the IRWM Plan. Additionally, the project manager and coordinator will coordinate with various agencies regarding permit, environmental, design and construction issues.

Task 1: Project Administration				
Activity or Deliverable	Schedule	Status	Completion of Task	
			Before Aug 2013	After Aug 2013
Management of Project including meetings, review of project progress	Ongoing	Ongoing	X	X
Review of invoices and backup documentation for submittal State	Quarterly after contract execution	Not yet begun		X

Task 2: Labor Compliance Program

The County of Santa Barbara will contract with a Third Party Labor Compliance Program approved by the Department of Industrial Relations to oversee all aspects of Contractor compliance with the Code of Federal Regulations. Labor Compliance will include, but not be limited to:

- Ensure that all project legal notices contain the proper LCP notifications to bidders; and statement of payment of prevailing wage requirements as stated in Labor Code Section 1771.8 for entities receiving funds from DWR's Stormwater Flood Management (SWFM) Grant, funded by Proposition 1E.
- Compliance with the LCP, including payment of prevailing wages, identification of labor classifications, and proper completion and submission of forms and notices.
- Collect and record the receipt of weekly Certified Payroll Records Pursuant to Labor Code Sections 1771.5(4), 1776, and California Code of Regulations 16401, 16402, 16403 as well as any applicable Federal statutes.
- Conduct random audits of Certified Payroll Records.
- Conduct periodic and routine site visits to physically monitor the Project. Note the number of workers on the site and interview a sufficient number to ensure that they are receiving the proper prevailing wage rate for the duties performed.
- Investigate all allegations of failure to pay prevailing wage rates and/or worker complaints per project.
- Attend and participate in on-site meetings, or other meetings, as requested by Santa Barbara County Flood Control District.
- Engage in all such duties required for those entities receiving funds from the DWR's Stormwater Flood Management (SWFM) Grant, funded by Proposition 1E.
- Assist in litigation related to LCP issues brought by third parties.
- Provide direction and guidance to bidders in their queries regarding the project.

Task 2: Labor Compliance Program				
Activity or Deliverable	Schedule	Status	Completion of Task	
			Before Aug 2013	After Aug 2013
County of SB Contract Admin, LCP ID 009	Ongoing	Ongoing	(not relevant to proposed project)	X

Task 3: Reporting

The District will assign a Project Manager to develop and submit the State-required, quarterly, annual and final reports. The progress reports will describe activities undertaken and accomplishments of each task when milestones are achieved and when any problems are encountered in the performance of the work. A final project report will be prepared per grant requirements and submitted to the DWR once the project is completed.

The reports will include final design plans and specifications, before and after site photographs, project status updates, copies of contracts with third-party consultants (LCP, construction management and inspection, construction surveyor and geotechnical materials testing), invoices for completed construction services, updates to environmental documentation, and post-construction regulatory agency reports.

Task 3: Reporting				
Activity or Deliverable	Schedule	Status	Completion of Task	
			Before Aug 2013	After Aug 2013
Submit Quarterly Progress Report	Quarterly after contract execution	Not yet begun		X
Submit Annual Reports	Yearly during duration of project	Not yet begun		X
Submit Final Report	After completion of project	Not yet begun		X

B. Land Purchase/ Easement

The County of Santa Barbara is in the process of obtaining easements and property for the construction of Reach 1A Phase 2 and Reach 1B. All easements will be obtained prior to the start of construction. The City of Santa Barbara will be purchasing APN 033-102-003, and APN 033-074-019 as well as easements across APN 033-074-005 prior to start of construction. All easements and property acquisitions are required for widening the channel and constructing expanded riparian habitat areas.

Land Purchases/Easements	Date	Status
BEFORE September 1, 2013 (Reach 1B)		
APN 033-074-020 – vacant land (County, full take)		In progress
APN 033-074-021 – commercial/residential (County, easements)		In progress
APN 033-074-011 – residential (County, easements)		In progress
APN 033-074-010 – residential (County, easements)	11/30/2006	Complete
APN 033-074-009 – residential (County, easements)		In progress
APN 033-074-005 – residential (City, easements)		In progress
APN 033-074-019 – vacant land (City, full take)		In progress
AFTER September 1, 2013 (Reach 1A, Phase 2)		
033-102-003 – commercial (City, full take)		In progress
033-102-018 – commercial (County, easement)		In progress
033-102-002 – hotel (County, easement)	2010	Complete
033-102-017 – hotel (County, easement)	2004	Complete

C. Planning / Design / Engineering / Environmental Documentation

Over the past 20 years, the SBCFCWCD, the City of Santa Barbara, and the USACE have completed reconnaissance studies, feasibility studies, design studies, environmental documentation, public outreach and engineering designs. Improvements to these reaches will have localized impacts on flooding, water quality, habitat restoration and fish passages. Each phase of the overall 7-phased project has been designed to be standalone project.

Task 4: Assessment and Evaluation				
Activity or Deliverable	Schedule	Status	Completion of Task	
			Before Aug 2013	After Aug 2013
Hydrology and Water Quality Study - Complete	June – October 2012	Completed	X	

Task 5: Project Design

The USACE contracted with Dean Ryan Corporation to develop plans, specifications, and the project cost estimate for Reach 1A Phase 2. The plans were completed in November 2010. The plans are for the construction of floodwalls, fish ledges, and an expanded riparian habitat area. The SBCFCWCD contracted with TetraTech to develop plans, specification and a project cost estimate for Reach 1B. The plans are in the 60% design stage. The plans are for the construction of flood walls, boulder clusters, and an expanded riparian habitat area.

The Reach 1A Phase 2 project will generally adhere to the following technical criteria:

- Increase capacity of creek between the Pedestrian Bridge and Mason Street, from 1,500 cfs (5-year storm event) to 3,400 cfs (25 year storm event)
- Widening of channel to increase fish habitat by 5,600 square feet.
- Create environmental riparian habitat area of 2,000 square feet.
- The Reach 1B project is currently in design and has obtained 60% design plans. The project will adhere to the following technical criteria: Increase capacity of creek between Mason Street and Yanonali Street, from 1,500 cfs (5-year storm event) to 3,400 cfs (25 year storm event)
- Widening of channel to increase fish habitat by 8,400 square feet.
- Create environmental riparian habitat area of 3,900 square feet.

Task 5: Project Design				
Activity or Deliverable	Schedule	Status	Completion of Task	
			Before Aug 2013	After Aug 2013
Reach 1A, Phase 2 – 100% Design	November 2010	Complete	X	
Reach 1B – 60% Design	December 2012	Complete	X	
Reach 1B – 90% Design	February 2013	In progress	X	
Reach 1B – 100% Design	March 2013	In progress	X	

Task 6: Environmental Documentation

The project EIR/EIS has been completed, satisfying the CEQA and NEPA requirements (Exhibit 3-B), and a Coastal Development Permit and Consistency Certification for the overall project was approved in 2006. The project EIS/EIR was completed by the USACE in September 2000 in conjunction with a feasibility study after determining that the *Lower*

Mission Creek Flood Control and Restoration Project required further study. As a result, mitigation measures associated with biology, cultural resources, traffic, water quality, air quality and noise impacts were incorporated into the project as conditions of approval, since the EIS/EIR concluded that significant unavoidable effects on the environment would result from the project. Since the preparation of the certified Final EIS/EIR, the 2007 Clean Air Plan was adopted. The proposed project would be consistent with the 2007 Clean Air Plan because the project is consistent with the City’s General Plan that was used to estimate future emissions. No change has occurred in the environmental regulations that were in effect when the Lower Mission Creek Final EIS/EIR was certified that would result in a new significant impact. Because these activities are completed, this application does not include budget for Task 6.

Task 6: Environmental Documentation				
Activity or Deliverable	Schedule	Status	Completion of Task	
			Before Aug 2013	After Aug 2013
Final Lower Mission Creek EIS/EIR	September, 2000	Completed	X	
Coastal Development Permit and Consistency Certification	December, 2009	Completed	X	

Task 7: Permitting

All the required and necessary permits for the project, with the exception of the USACE Clean Water Act Section 404 permit which will be received by March 2013, have been obtained.

Task 7: Permitting				
Activity or Deliverable	Schedule	Status	Completion of Task	
			Before Aug 2013	After Aug 2013
USACE Clean Water Act Section 404 Nationwide Permit	March 2013	In progress	X	
California Fish and Wildlife 1600 Streambed Alternation Permit	December 2009	Complete	X	
U.S. Fish & Wildlife Service Biological Opinion	June 2001	Complete	X	
California Coastal Commission Coastal Development Permit	September 2009	Complete	X	
California Regional Water Quality Control Board Water Quality Certification	September 2010	Complete	X	
NOAA Biological Opinion	August 2000	Complete	X	

D. Construction / Implementation

Task 8: Construction Contracting

The final plans and specifications will be published and the project will be put out to bid prior to construction commencing.

Task 8: Construction Contracting				
Activity or Deliverable	Schedule	Status	Completion of Task	
			Before Aug 2013	After Aug 2013
Preparation of Bid Packages	April 2013	Not yet begun		X
Notice Request for Bids	April 2013	Not yet begun		X
Notice to Proceed	May 2013	Not yet begun		X

Task 9: Construction

The items below provide an overall description of the construction task and sub-tasks.

Subtask 9.1 Mobilizations and Site Preparation:

The Mobilization and Site Preparation subtask will include the following activities:

- Contractor's efforts to organize and order equipment and materials and to deliver equipment and material to the job site,
- Notification to adjacent private and commercial property owners,
- Installation of a project trailer and temporary electricity for construction management,
- Safety and biological resources meeting, and
- Installation of Stormwater Pollution Prevention Program best management practices.

Subtask 9.2 Project Construction:

Project construction will include the following activities:

- Demolition of existing utilities and structures such as piles, building and patios,
- Excavation, hauling, grading and backfill,
- Tree removal and clearing and grubbing,
- Dust control, traffic control and detours, erecting temporary construction fencing,
- Traffic Control,
- Construction of temporary cofferdam,
- Dewatering,
- Constructing concrete channel walls,
- Regrading creek bed with rip rap, boulders and fill materials,
- Existing storm drain modifications,
- Installation of fish ledges,
- Fencing, and
- Landscaping.

Subtask 9.3 Performance Testing and Demobilization:

Performance testing will include geotechnical materials testing of:

- Concrete (test cylinders),

- Reinforcement, and
- Backfill for compaction requirements.

Demobilization will include:

- Removal of equipment and excess materials from job site,
- Cleaning up construction area,
- Removal of BMPs, and
- Finishing up remaining punch list items.

Task 9: Construction				
Activity or Deliverable	Schedule	Status	Completion of Task	
			Before Aug 2013	After Aug 2013
Mobilization and Site Preparation	April 2013	Not yet begun		X
Project Construction	May 2013	Not yet begun		X
Performance Testing and Demobilization	February 2015	Not yet begun		X

(e) Environmental Compliance/Mitigation/Enhancement

Task 10: Environmental Compliance/Mitigation/Enhancement

All environmental mitigation necessary for the project has been addressed by the completed EIS/EIR and implemented by the responsible agency. No additional mitigation is necessary as part of this work plan.

(f) Construction Administration

Task 11: Construction Administration (Management)

Construction administration will be performed by a SBCFCWCD-contracted construction management firm to perform review of contractor submittals, management of construction schedules, and generation of required weekly status reports. Construction management will also perform construction inspection and report back to the SBCFCWCD.

Task 11: Construction Administration				
Constructing Contracting Activity or Deliverables	Schedule	Status	Completion	
			Before Aug 2013	After Aug 2013
Quarterly Construction Reports (includes contractors monthly progress reports and invoices)	April 2013 through March 2015	Not yet begun		X
Final Construction Report	April 2015	Not yet begun		X

Other Costs

There are no additional activities and cost.

Discussion of Standards

The following standards will be used for the implementation of the Project:

- Construction Design Standards include the latest editions of the California Department of Transportation Standard Specifications and Standard Plans, American Public Works Association Standard Specifications for Public Works Construction

Attachment 4 consists of the following items:

- ✓ **Budget.** Attachment 4 provides a budget estimate for each budget category row of the proposed project.

Introduction

This attachment presents detailed budget information and supporting documentation for the *Lower Mission Creek Flood Control and Restoration Project* Reach 1A Phase 2 and Reach 1B. Table 4-1 provides a summary table for the combined projects.

Table 4-1: Project Budget – Summary Table
***Lower Mission Creek Flood Control and Restoration Project* Reach 1A Phase 2 and Reach 1B**

	(a)	(b)	(c)	(d)	(e)
Budget Category	Grant Request	Non-State Share*	Other State Funds	Total	% Funding Match
Direct Project Administration Costs	\$17,896	\$183,664	\$0	\$201,560	17%
Land Purchase/Easement	\$0	\$3,827,859	\$0	\$3,827,859	0%
Planning/Design/Engineering/Environmental Documentation	\$0	\$549,500	\$0	\$549,500	0%
Construction/Implementation	\$1,723,367	\$6,254,661	\$0	\$7,978,028	46%
Environmental Compliance/Mitigation/Enhancement	\$13,774	\$62,771	\$0	\$76,545	27%
Construction Administration	\$96,878	\$348,857	\$0	\$445,735	45%
Other Costs	\$0	\$0	\$0	\$0	0%
Construction/Implementation Contingency	\$170,975	\$626,827	\$0	\$797,802	45%
Grand Total	\$2,022,890	\$11,854,139	\$0	\$13,877,029	83%

Reach 1A Phase 2

The Reach 1A Phase 2 project offers tremendous investment value to the State for a number of reasons including:

- 50% funding match from non-State sources, demonstrating there is a strong commitment from the SBCFCWCD and its partners to the implementation of this project.
- 84% percent of the grant funding request will be used directly for construction activities.

Table 4-2 provides a cost breakdown by Work Plan task and sub-task for Reach 1A Phase 2. The following pages provide detailed budget breakdowns for each of the budget categories. The cost breakdown for each budget is provided for each of the budget categories included in the sample budget provided in Exhibit B of the Proposition 1E IRWM Proposal Solicitation Package and are consistent with the categories included in the Work Plan (provided in Attachment 3) and Schedule (provided in Attachment 5).

Table 4-2: Project Budget – Reach 1A Phase 2

	(a)	(b)	(c)	(d)	(e)
Budget Category	Grant Request	Non-State Share	Other State Funds	Total	% Funding Match
Direct Project Administration Costs	\$4,796	\$72,920	\$0	\$77,716	6%
Land Purchase/Easement	\$0	\$1,089,793	\$0	\$1,089,793	0%
Planning/Design/Engineering/Environmental Documentation	\$0	\$209,500	\$0	\$209,500	0%
Construction/Implementation	\$768,366	\$2,093,808	\$0	\$2,862,174	27%
Environmental Compliance/Mitigation/Enhancement	\$13,774	\$36,771	\$0	\$50,545	27%
Construction Administration	\$47,639	\$127,181	\$0	\$174,820	27%
Other Costs	\$0	\$0	\$0	\$0	0%
Construction/Implementation Contingency	\$77,994	\$208,223	\$0	\$286,217	27%
Grand Total	\$912,569	\$3,838,196	\$0	\$4,750,765	80%

Reach 1B

The Reach 1B project offers tremendous investment value to the State for a number of reasons including:

- 78% funding match from non-State sources, demonstrating there is a strong commitment from the SBCFCWCD and its partners to the implementation of this project.
- 90% percent of the grant funding request will be used directly for construction activities.

Table 4-3 provides a cost breakdown by Work Plan task and sub-task for each section. The following pages provide detailed budget breakdowns for each of the budget categories. The cost breakdown for each budget is provided for each of the budget categories included in the sample budget provided in Exhibit B of the Proposition 1E IRWM Proposal Solicitation Package and are consistent with the categories included in the Work Plan (provided in Attachment 3) and Schedule (provided in Attachment 5).

Table 4-3: Project Budget – Reach 1B

	(a)	(b)	(c)	(d)	(e)
Budget Category	Grant Request	Non-State Share*	Other State Funds	Total	% Funding Match
Direct Project Administration Costs	\$13,100	\$110,744	\$0	\$123,844	11%
Land Purchase/Easement	\$0	\$2,738,066	\$0	\$2,738,066	0%
Planning/Design/Engineering/Environmental Documentation	\$0	\$340,000	\$0	\$340,000	0%
Construction/Implementation	\$955,001	\$4,160,853	\$0	\$5,115,854	19%
Environmental Compliance/Mitigation/Enhancement	\$0	\$26,000	\$0	\$26,000	0%
Construction Administration	\$49,239	\$221,676	\$0	\$270,915	18%
Other Costs	\$0	\$0	\$0	\$0	0%
Construction/Implementation Contingency	\$92,981	\$418,604	\$0	\$511,585	18%
Grand Total	\$1,110,321	\$8,015,943	\$0	\$9,126,264	87%

Detailed Project Budget

Table 4-4 provides a summary budget for the *Lower Mission Creek Flood Control and Restoration Project* Reach 1A Phase 2 and Reach 1B.

Table 4-4: Cost Breakdown by Work Plan Task and Subtask

Row/ Task	Category	Reach 1A Phase 2	Reach 1B	Total
Row (a)	Direct Project Administration Costs			
Task 1	<i>Project Administration</i>	\$ 52,977	\$ 90,105	\$ 143,082
Task 2	<i>Labor Compliance Program</i>	\$ 17,200	\$ 26,200	\$ 43,400
Task 3	<i>Reporting</i>	\$ 7,539	\$ 7,539	\$ 15,078
Row (b)	Land Purchase Easement	\$ 1,089,793	\$ 2,738,066	\$ 3,827,859
Row (c)	Planning/Design/Engineering/ Environmental Documentation			
Task 4	<i>Assessment and Evaluation</i>	\$ 16,000	\$ 26,000	\$ 42,000
Task 5	<i>Final Design</i>	\$ 177,500	\$ 288,000	\$ 465,500
Task 6	<i>Environmental Documentation</i>	\$ -	\$ -	\$ -
Task 7	<i>Permitting</i>	\$ 16,000	\$ 26,000	\$ 42,000
Row (d)	Construction/Implementation			
Task 8	<i>Construction Contracting</i>	\$ 16,000	\$ 26,000	\$ 42,000
Task 9	<i>Construction</i>	\$ 2,862,174	\$ 5,089,854	\$ 7,952,028
Row (e)	Environmental Compliance/Mitigation/Enhancement			
Task 10	<i>Environmental Compliance/Mitigation/Enhancement</i>	\$ 50,545	\$ 26,000	\$ 76,545
Row (f)	Construction Administration			
Task 11	<i>Construction Administration</i>	\$ 174,820	\$ 270,915	\$ 445,735
Row (g)	Other Costs	\$ -	\$ -	\$ -
Row (h)	Construction/Implementation Contingency	\$ 286,217	\$ 511,585	\$ 797,802
Row (i)	Grand Total	\$4,750,765	\$9,126,264	\$ 13,877,029

Row (a) Direct Project Administration Costs

Task 1 - Project Administration:

The project administration cost estimate is taken from a Cost Engineering Report done in October 2011 for the U.S. Army Corps of Engineers and represents 2% of the construction costs.

Task 2 – Labor Compliance Program:

Labor Compliance Program (LCP) costs calculated based on an percent fee of the project construction costs (not including contingency costs).

Task 3 – Reporting:

The project manager will prepare and submit quarterly and final progress reports and invoices to DWR.

Table 4-5: Row (a) Direct Project Administration Budget

Discipline	Hourly Wage (\$/hr)	Reach 1A-2		Reach 1B		Grand Total
		Hours	Total	Hours	Total	
Project Administration						
Project Administration	\$150/hr	353	\$52,977	600	\$90,105	\$143,082
Labor Compliance Program						
Project Administration	\$150/hr	115	\$17,200	N/A	\$26,200	\$43,400
Reporting						
Project Manager	\$125.65	60	\$7,539	60	\$7,539	\$15,078
Total			\$77,716		\$123,844	\$201,560

Row (b) Land Purchase/Easement

All of the land purchases and easements that are required have already been negotiated or are well underway and almost complete. These costs are not part of the grant request. They are included in the funding match.

Table 4-6: Row (b) Land Purchase Easements

Land Purchase/Easements	Reach 1A -2	Reach 1B	Total Value (match)
Land Purchase Easement	\$1,089,793	\$2,738,066	\$3,827,859

Row (c) Planning/Design/Engineering/Environmental Documentation

Task 4 – Assessment and Evaluation:

Assessment and evaluation activities have already been completed.

Task 5 – Final Design:

Final design plans and specifications are 100% complete for Reach 1A Phase 2. Final design plans and specifications are at and 60% for Reach 1B. Final design for Phase 1B will be undertaken by the SBCFCWCD. The budget was based on the USACE Value Engineering document prepared for the project.

Task 6 – Environmental Documentation:

An EIR/EIS was completed from the project and all permits with the exception of the USACE 440 permit, which will be received in March 2013, have been secured. The grant request for this task is for environmental compliance and is derived from the USACE Value Engineering Study.

Task 7 – Permitting:

The majority of permitting has been completed for this project. However, a nominal permitting budget is being requested for permitting compliance items during construction.

Table 4-7: Row (c) Planning/Design/Engineering/Environmental Documentation Budget

Discipline	Hourly Wage (\$/hr)	Reach 1A-2		Reach 1B		Grand Total
		Hours	Total	Hours	Total	
Assessment and Evaluation						
Planning (match)	\$140/hr	114	\$16,000	186	\$26,000	\$42,000
Final Design						
Engineering and Technical Review (match)	\$180/hr	986	\$177,5000	1600	\$288,000	\$465,500
Environmental Documentation						
Environmental Documentation (complete)	Complete	--	--	--	--	--
Permitting						
Permits (complete) (match)	Complete	LS	\$16,000	LS	\$26,000	\$42,000
		Total	\$209,500		\$340,000	\$549,500

Row (d) Construction

Task 8 – Construction Contracting:

The construction contracting for the project will be handled by District staff. Costs to advertise and acquire the construction contractor are estimated to be \$16,000 for Reach 1A Phase 2 and \$26,000 for Reach 1B.

Table 4-8: Row (d) Construction Contracting Costs

Construction Contracting	Reach 1A -2	Reach 1B	Total Value
Construction Contracting	\$16,000	\$26,000	\$42,000

Task 9 – Construction:

Construction costs are estimated to be \$2,862,173.72 for Reach 1A Phase 2. Construction costs including mobilization and site preparation, project management and documentation, and geotechnical materials testing , as well as construction materials. As shown in Table 4-6, costs were broken down by common construction divisions. The project construction estimates were taken from USACE estimates and value engineering documents.

Table 4-9: Row (d) Construction Costs for Reach 1A Phase 2

Discipline	Unit Costs (\$)	Number of Units	Total (\$)
<i>Subtask 9.1 Mobilization and Site Preparation</i>			
Construction Survey	\$15,283	1	\$15,283
<i>Subtask 9.2 Construction</i>			
Mobilization	\$125,870	1	\$125,870
Site safety, noise & dust control	\$28,845	1	\$28,845
Traffic Control	\$16,390	1	\$16,390
Temporary security fencing	\$39.33	1000	\$39,330
Temporary security gate	\$2,360	2	\$4,720
Demo timber piles	\$52.45	660	\$34,617
Demo existing building	\$15.74	5328	\$83,862.72
Demo existing concrete patio	\$11.80	815	\$9,617
Remove and reinstall existing garden	\$525	2	\$1,050
Remove existing trees	\$1,050	1	\$1,050
Clear and grub	\$2,032	1	\$2,032
Cofferdam	\$300,220	1	\$300,220
Dewatering	\$726,897	1	\$726,897
Excavation, hauling and backfill	\$112,195	1	\$112,195
Concrete walls	\$960,914	1	\$960,914
42" hand railing	\$130,096	1	\$130,096
Riprap, boulder and stone	\$14,371	1	\$14,371
Stormwater Pollution Prevention Plan	\$2,000	1	\$2,000
Engineering and planning during construction, Project management	\$26,488	1	\$26,488
Construction management	\$158,929	1	\$158,929
Project photo and video documentation	\$4,196	1	\$4,196
<i>Subtask 9.3 Performance Testing and Demobilization</i>			
Geotechnical Material Testing	\$47,201	1	\$47,201
Total			\$2,862,173.72

Construction costs are estimated to be \$5,089,853.92 for Reach 1B. Construction costs including mobilization and site preparation, project management and documentation, and geotechnical materials testing, as well as construction materials. As shown in Table 4-6, costs were broken down by common construction divisions. The project construction estimates were taken from USACE estimates and DDR documents.

Table 4-10: Row (d) Construction Costs for Reach 1B

Discipline	Unit Costs (\$)	Number of Units	Total (\$)
<i>Subtask 9.2 Construction</i>			
Mobilization	\$71,384	1	\$71,384
Demobilization	\$34,197	1	\$34,197
Demolition	\$36,318	1	\$36,318
Remove/replace light pole	\$3,426	1	\$3,426
Clear and grub	\$14,896	1	\$14,896
Excavation	\$40.33	7457	\$300,740.81
Fill	\$32.27	62	\$2,000.74
Channel Wall	\$2,720,374	1	\$2,720,374
Fill Material - Riprap	\$76.21	818	\$62,339.78
Fill Material - Gravel	\$43.27	355	\$15,360.85
Filter Material	\$3.34	873	\$2,915.82
Construct 54" RCP	\$356.55	40	\$14,262
Dewatering	\$1,155,804	1	\$1,155,804
Landscaping	\$11,804	1	\$11,804
Boulder Cluster	\$3,580.50	2	\$7,161
Fencing	\$57.50	716	\$41,170
Fish Ledge	\$45.86	110	\$5,044.60
Reinforced gutter	\$20.17	796	\$16,055.32
Construction Survey	\$99,300	1	\$99,300
Engineering and planning during construction, Project management	\$53,000	1	\$53,000
Construction management	\$323,000	1	\$323,000
<i>Subtask 9.3 Performance Testing and Demobilization</i>			
Geotechnical Material Testing	\$99,300	1	\$99,300
Total			\$5,089,853.92

Table 4-11: Row (d) Summary of Total Construction Costs

Construction	Reach 1A -2	Reach 1B	Total Value
Construction	\$2,862,173.72	\$5,089,853.92	\$7,952,027.64

Row (e) Environmental Compliance/Mitigation/Enhancement

Task 10- Environmental Compliance/Mitigation/Enhancement:

Environmental compliance, mitigation and enhancement activities include biology and cultural compliance and assessment. Total costs for Reach 1A Phase 2 are \$50,545, of which \$13,744 are included as part of the grant request. Total costs for Reach 12B are \$26,000, which was derived from SBCFCWCD experience and estimates.

Table 4-12: Row (e) Environmental Compliance Costs

Environmental Compliance	Reach 1A -2	Reach 1B	Total Value
Environmental Compliance	\$50,545	\$26,000	\$76,545

Row (f) Construction Administration

Task 11- Construction Administration:

As described in the Work Plan (Attachment 3), a construction management (CM) consultant will be required to have staff onsite for the duration of the project. CM staff will be required to keep daily and weekly observation logs and turn them in with monthly reports on the project status and adherence to budget and schedule. The CM team will be responsible for the coordination of invoices from its sub-consultants and these will be submitted to County staff. County staff will be responsible for the review of invoices from all consultants and the compilation of invoices and reports to DWR for the project. The County will ensure the appropriate materials are invoiced for the project, the correct documentation is being prepared and the on-going requirements of the grant are being adhered to.

Total costs for Reach 1A Phase 2 are \$174,820, of which \$47,639 are included as part of the grant request. Total costs for Reach 1B are \$270,915, of which \$49,239 are included as part of the grant request.

Table 4-13: Row (f) Construction Administration Costs

Construction Administration	Reach 1A -2	Reach 1B	Total Value
Construction Project Management & Inspection	\$174,820	\$270,915	\$445,735

Row (g) Other Costs

There are no additional activities and costs.

Row (h) Construction Contingency

A 10% construction contingency is being allocated to the project based on a percentage of the raw (equipment and materials portion of) construction costs. The 10% contingency was selected because that is the standard rate used in all District projects.

The contingency cost covers any unforeseen circumstances out in the field that have not been encountered during the initial design and subsequent design phases. It includes all unforeseen underground utilities, concrete or other items that have to be removed or relocated in order to complete construction. Unforeseen, or changed conditions, are handled via extra work change orders which require approval by deputy public works manager. The amount of monies allocated to the construction contingency is typically 10% of all construction costs. The construction contingency allows change orders to be processed efficiently and quickly through Public Works accounting without having to approach the Board of Supervisors for additional monies.

Row (i) Grand Total

The grand total of rows (a) through (h) is as shown below in Table 4-8.

Table 4-14: Row (i) Grand Total Costs

Row	Budget Category	Reach 1A-2	Reach B	Grand Total
(a)	Direct Project Administration Costs	\$77,716	\$123,844	\$201,560
(b)	Land Purchase/Easement	\$1,089,793	\$2,738,066	\$3,827,859
(c)	Planning/Design/Engineering/ Environmental Documentation	\$209,500	\$340,000	\$549,500
(d)	Construction/Implementation	\$2,862,174	\$5,115,854	\$7,978,028
(e)	Environmental Compliance/ Mitigation/Enhancement	\$50,545	\$26,000	\$76,545
(f)	Construction Administration	\$174,820	\$270,915	\$445,735
(g)	Other Costs (Includes Permitting)	\$0	\$0	\$0
(h)	Construction/Implementation Contingency	\$286,217	\$511,585	\$797,802
(i)	Grand Total	\$4,750,765	\$9,126,264	\$13,877,029

Attachment 4 consists of the following items:

- ✓ **Work Plan –Schedule** . Attachment 5 provides a detailed schedule of the proposed project.

Introduction

The Lower Mission Creek Flood Control and Restoration Project Reach 1A, Phase 2 and Reach 1B proposal contains the schedule on the following two pages. The first page of the Schedule is the overview of the whole Lower Mission Creek Flood Control and Restoration Project, Reaches 1-7, while the second page contains the Reaches addressed in this application and the schedules and work tasks specific to Reach 1A, Phase 2 and Reach 1B.

The projects, Reach 1A, Phase 2 and Reach 1B, are at 100% and 60% design, respectively and both will be completed within 14 months. Reach 1B is scheduled to begin in February 2014 and Reach 1A will commence on the heels of the completion of Reach 1B. The entire project will be completed in April 2015.

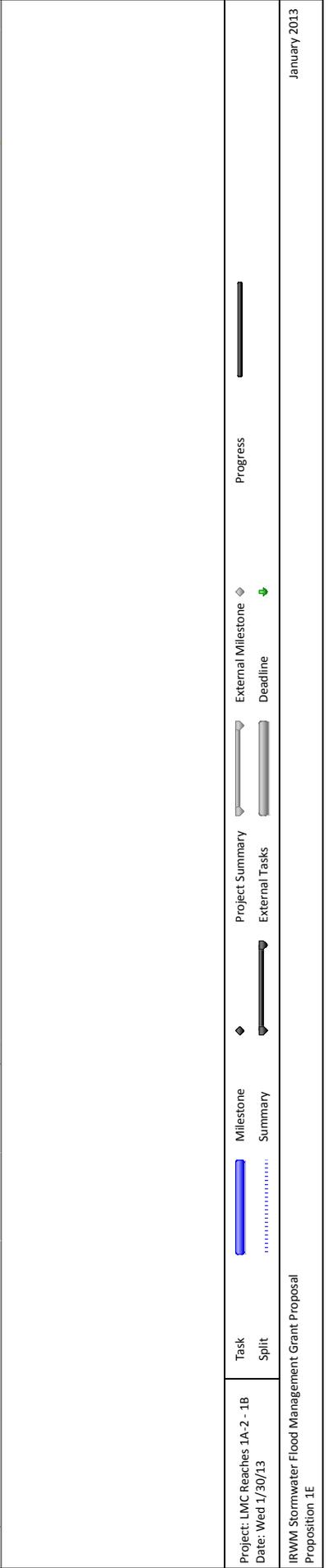
Based on review of the project Work Plan, (Attachment 3), detailed project budgets (Attachment 4), and the project schedule, it apparent that the schedule is reasonable for implementation.

Readiness to Proceed

The following schedule provides a detailed summary of all important milestones for the project's readiness to proceed. The post completion report will be submitted years for ten years per pages 4-5 in the Prop1E Template , but this is not shown in the attached Gantt schedule.

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ID	Task Name	Start	Finish	93	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015		
1	Grant Award Date	Thu 8/15/13	Thu 8/15/13																									
2	Row (a) Direct Project Administration	Tue 4/3/07	Tue 6/30/15																									
3	Task 1: Project Administration	Tue 4/3/07	Tue 6/30/15																									
4	Task 2: Labor Compliance Program	Tue 7/1/14	Tue 3/31/15																									
5	Task 3: Reporting	Fri 8/16/13	Thu 4/9/15																									
6	Quarterly Reports	Fri 8/16/13	Thu 4/9/15																									
7	Final Report	Thu 4/9/15	Thu 4/9/15																									
8	Row (b) Land Purchase/Easement	Sat 4/1/06	Mon 2/3/14																									
9	Row (c) Planning/Design/Engineering/Environment	Mon 1/3/94	Fri 1/31/14																									
10	Task 4: Assessment and Evaluation	Mon 1/2/12	Fri 1/31/14																									
11	Task 5: Final Design	Mon 11/15/10	Fri 12/7/12																									
12	Reach 1B 60% Design	Fri 12/7/12	Fri 12/7/12																									
13	Reach 1A-2 100% Design	Mon 11/15/10	Mon 11/15/10																									
14	Task 6: Environmental Documentation	Mon 1/3/94	Mon 9/11/00																									
15	EIS/EIR (complete)	Mon 1/3/94	Mon 9/11/00																									
16	Task 7: Permitting	Wed 8/2/00	Fri 3/29/13																									
17	NOAA Biological Opinion	Wed 8/2/00	Wed 8/2/00																									
18	US Fish & Wildlife Biological Opinion	Fri 6/1/01	Fri 6/1/01																									
19	Coastal Development Permit	Mon 1/19/09	Thu 9/3/09																									
20	DFG Streambed Alteration Agreement	Wed 12/16/09	Wed 12/16/09																									
21	RWQCB Section 401 Permit	Tue 1/26/10	Wed 7/7/10																									
22	RWQCB Section 401 Permit Amendment	Mon 9/20/10	Mon 9/20/10																									
23	US Fish & Wildlife Request for Concurrent	Fri 5/13/11	Fri 5/13/11																									
24	USACE Section 404 Permit	Wed 1/2/13	Fri 3/29/13																									
25	Row (d) Construction/Implementation	Tue 2/4/14	Thu 4/9/15																									
26	Task 8: Construction Contracting	Tue 2/4/14	Mon 4/7/14																									
27	Contractor Procurement Process	Tue 2/4/14	Thu 3/6/14																									
28	Complete Contractor Award and Begin Construction	Fri 3/7/14	Mon 4/7/14																									
29	Task 9: Construction	Tue 4/8/14	Thu 4/9/15																									
30	Mobilization and Site Preparation	Tue 4/8/14	Thu 5/8/14																									
31	Demolition of existing structures	Fri 5/9/14	Mon 6/9/14																									
32	Construction of walls and rip-rap	Tue 6/10/14	Mon 3/9/15																									
33	Demobilization and vegetation of project area	Tue 3/10/15	Thu 4/9/15																									
34	Row (e) Environmental Compliance/Mitigation/	Wed 7/2/14	Tue 3/31/15																									
35	Task 10: Environmental Compliance	Wed 7/2/14	Tue 3/31/15																									
36	Tidewater Goby and Steelhead Trout Monitoring	Wed 7/2/14	Tue 3/31/15																									
37	Row (f) Construction Administration	Tue 4/8/14	Thu 4/9/15																									
38	Task 11: Management of Construction Contr	Tue 4/8/14	Thu 4/9/15																									



Lower Mission Creek Reach 1A, Phase 2 and Reach 1B

Santa Barbara County Flood Control and Water Conservation District

ID	Task Name	Start	Finish	2013	2014	2015
1	Grant Award Date	Thu 8/15/13	Thu 8/15/13	H1		
2	Row (a) Direct Project Administration	Tue 4/3/07	Tue 6/30/15			
3	Task 1: Project Administration	Tue 4/3/07	Tue 6/30/15			
4	Task 2: Labor Compliance Program	Tue 7/1/14	Tue 3/31/15			
5	Task 3: Reporting	Fri 8/16/13	Thu 4/9/15			
6	Quarterly Reports	Fri 8/16/13	Thu 4/9/15			
7	Final Report	Thu 4/9/15	Thu 4/9/15			
8	Row (b) Land Purchase/Easement	Sat 4/1/06	Mon 2/3/14			
9	Row (c) Planning/Design/Engineering/Environment	Mon 1/3/94	Fri 1/31/14			
10	Task 4: Assessment and Evaluation	Mon 1/2/12	Fri 1/31/14			
11	Task 5: Final Design	Mon 11/15/10	Fri 12/7/12			
12	Reach 1B 60% Design	Fri 12/7/12	Fri 12/7/12			
13	Reach 1A-2 100% Design	Mon 11/15/10	Mon 11/15/10			
14	Task 6: Environmental Documentation	Mon 1/3/94	Mon 9/11/00			
15	EIS/EIR (complete)	Mon 1/3/94	Mon 9/11/00			
16	Task 7: Permitting	Wed 8/2/00	Fri 3/29/13			
17	NOAA Biological Opinion	Wed 8/2/00	Wed 8/2/00			
18	US Fish & Wildlife Biological Opinion	Fri 6/1/01	Fri 6/1/01			
19	Coastal Development Permit	Mon 1/19/09	Thu 9/3/09			
20	DFG Streambed Alteration Agreement	Wed 12/16/09	Wed 12/16/09			
21	RWQCB Section 401 Permit	Tue 1/26/10	Wed 7/7/10			
22	RWQCB Section 401 Permit Amendment	Mon 9/20/10	Mon 9/20/10			
23	US Fish & Wildlife Request for Concurrent	Fri 5/13/11	Fri 5/13/11			
24	USACE Section 404 Permit	Wed 1/2/13	Fri 3/29/13			
25	Row (d) Construction/Implementation	Tue 2/4/14	Thu 4/9/15			
26	Task 8: Construction Contracting	Tue 2/4/14	Mon 4/7/14			
27	Contractor Procurement Process	Tue 2/4/14	Thu 3/6/14			
28	Complete Contractor Award and Begin Construction	Fri 3/7/14	Mon 4/7/14			
29	Task 9: Construction	Tue 4/8/14	Thu 4/9/15			
30	Mobilization and Site Preparation	Tue 4/8/14	Thu 5/8/14			
31	Demolition of existing structures	Fri 5/9/14	Mon 6/9/14			
32	Construction of walls and rip-rap	Tue 6/10/14	Mon 3/9/15			
33	Demobilization and vegetation of project area	Tue 3/10/15	Thu 4/9/15			
34	Row (e) Environmental Compliance/Mitigation/	Wed 7/2/14	Tue 3/31/15			
35	Task 10: Environmental Compliance	Wed 7/2/14	Tue 3/31/15			
36	Tidewater Goby and Steelhead Trout Monitoring	Wed 7/2/14	Tue 3/31/15			
37	Row (f) Construction Administration	Tue 4/8/14	Thu 4/9/15			
38	Task 11: Management of Construction Contr	Tue 4/8/14	Thu 4/9/15			

Task (Blue bar) **Split** (Dotted line) **Milestone** (Diamond) **Summary** (Thick line)
Project Summary (Thin grey bar) **External Tasks** (Thin grey bar) **External Milestone** (Diamond) **Deadline** (Thin grey bar) **Progress** (Thin black bar)

Project: LMC Reaches 1A-2 -1B
 Date: Wed 1/30/13
 IRWM Stormwater Flood Management Grant Proposal
 Proposition 1E
 January 2013

Attachment 6 consists of the following items:

- ✓ **Monitoring, Assessment, and Performance Measures.** The purpose of this attachment is to describe the monitoring, assessment, and performance measures that will be used to evaluate the proposed project. These measures will ensure that this proposal meets its intended goals, achieves measurable outcomes, and provides value to the Region and the State of California.
-

The purpose of this attachment is to provide a discussion of the monitoring system to be used to verify project performance with respect to the project benefits or objectives identified. This attachment will also discuss how monitoring data will be used to measure the performance in meeting the overall goals and objectives of the Santa Barbara County IRWM Plan. The project applicant has prepared a Project Performance Measures Table (Table 6-1) that includes the following:

- Project goals
- Desired outcomes
- Targets – measurable targets that are feasible to meet during the life of the project
- Performance indicators – measures to evaluate change that is a direct result of the project being built
- Measurement tools and methods – effectively track performance

The project performance measures will be used to develop the project monitoring plan. The project performance measures will continue to be refined as the project continues to be developed. Development of performance measures and monitoring plans for the *Lower Mission Creek Flood Control and Restoration Project* Reach 1A Phase 2 and Reach 1B is also presented in Attachment 3.

**Table 6-1: Performance Measures Table
 Lower Mission Creek Flood Control and Restoration Project Reach 1A, Phase 2 and Reach 1B**

Project Objectives	Desired Outcomes	Targets	Performance Indicators	Measurement Tools and Methods
Improve flood flow conveyance capacity	Increase flood conveyance		Increased conveyance capacity that results in reduction of flood events in project area in future	Measurements of upstream and downstream flows
Improve public safety during storm events	Increase flood protection	Reduction in amount of parcels/acreage of flood damage in adjacent to and in the vicinity of Lower Mission Creek	Quantification of the damage of historic flood events reduced adjacent to Lower Mission Creek	Record of damage estimates for historic and future flood events
Protect, restore and expand habitat and ecosystems	Increase native and riparian vegetation Increase fish habitat and passage	Increase in natural habitat for vegetation and for fish (steelhead and tidewater goby)	Quantification of habitat increased as a result of the project Successful use of fish ledges by steelhead and tidewater goby	Visual and photogrammetric habitat monitoring of vegetation renewal Visual surveys of successful fish passage during annual surveys
Protect and improve surface water quality	Improve water quality for both human and animal benefit	Increase in water quality	Quantification of water quality and species viability	Monthly monitoring of water quality

The Lower Mission Creek Flood Control and Restoration Project Reach 1A, Phase 2 and Reach 1B has been meticulously designed to: 1) improve flood conveyance capacity to accommodate a 20-year flood (the current capacity is a 5-year flood); 2) improve the health and public safety of the residents and businesses in the project area; 3) restore natural habitat; and 4) improve water quality. Project goals each have performance measures that will be used to quantify and verify project performance. The performance measures used to quantify and verify project performance are described in the Project Goals and Performance Measures section below.

Project Goals and Performance Measures

Improve Flood Conveyance Capacity

The *Lower Mission Creek Flood Control and Restoration Project* Reach 1A Phase 2 and Reach 1B will increase the creek channel capacity to 3,400 cfs, which equates to an increase from a 5-year event to a 20-year event or a 125% increase in flood flow conveyance capacity.

Flow measurements will be taken on both reaches of the creek to verify project performance. The performance measure is consistent with the Santa Barbara County IRWM Plan objective of implementing flood control measures, which would be quantified from the documented flow monitoring.

Improve Public Safety During Storm Events

The project will result in improved public safety during storm events by directly removing 11 parcels adjacent to Lower Mission Creek from its floodplain, which has been verified by the HEC-RAS Modeling analysis (USACE Feasibility Study, 2000).

The performance measure is consistent with the Santa Barbara County IRWM Plan objective of implementing flood control measures, which would be quantified from the reduction in flood damages.

Protect, Restore and Expand Habitat and Ecosystems

The *Lower Mission Creek Flood Control and Restoration Project* Reach 1A Phase 2 and Reach 1B will provide 4,000 square feet of riparian and native habitat expansion zones adjacent to the creek. In addition, 10,000 square feet of aquatic habitat will be added for the endangered steelhead trout and the endangered tidewater goby.

The performance measures is consistent with the Santa Barbara County IRWM Plan objective of protect, restore, and enhance natural processes and habitats, which would be quantified from the amount of habitat increased around each project area and the successful passage of fish through the project area.

Protect and Improve Surface Water Quality

The *Lower Mission Creek Flood Control and Restoration Project Reach 1A Phase 2 and Reach 1B* provide benefits to water quality. In addition, the project will remove various types of bank stabilization and restore banks and adjacent creek areas with native vegetation.

Monthly monitoring of water quality will be conducted and compared with historic data. The following data will be collected and recorded:

- dissolved oxygen,
- pH,
- temperature,
- turbidity,
- conductivity,
- salinity,
- total dissolved solids, and
- indicator bacteria

This performance measure is consistent with the Santa Barbara County IRWM Plan objective of improve the quality of urban runoff and stormwater, which would be quantified with water quality results and species viability.

Storm water samples would likely not be analyzed for this project since the project area is less than one acre, thus not subject to the SWRCB Construction General Permit.

Attachment 7 consists of the following items:

- ✓ **Technical Justification.** Attachment 7 provides the technical justification for the proposed project.
 - ✓ **Supporting Documentation.** Technical reports, feasibility studies, and other documents justifying the claimed physical benefits are included in this attachment.
-

Project Overview

Lower Mission Creek presents a serious flood risk to the City of Santa Barbara's residents. Over the past century, there have been no less than 20 devastating flood events. Hence, the City of Santa Barbara, the USACE, and the SBCFCWCD have spent two decades studying and developing the *Lower Mission Creek Flood Control and Restoration Project*. The overall project would improve 1.3 miles along Mission Creek. The SBCFCWCD is submitting this grant application to fund the following 2 projects on Lower Mission Creek: Reach 1A Phase 2 (230 feet) and Reach 1B (420 feet), both of which will significantly increase the conveyance flood capacity of the channel from a 5-year event to a 20-year event and directly remove 11 parcels from the floodplain. The projects also provide restoration and habitat benefits which will increase water quality, improve riparian habitat, and facilitate the migration of steelhead and tidewater goby.

Project Physical Benefits

The *Lower Mission Creek Flood Control and Restoration Project* Reach 1A Phase 2 and Reach 1B have been specifically designed to reduce flood damage to adjacent residents and businesses, improve public safety during storm events by reduction in bank overflow, improving fish passage for federally endangered steelhead trout and endangered tidewater goby, improve riparian habitat and create extended habitat zones and improve water quality. The following bullet list summarizes the physical benefits being claimed by the projects, which are:

- Flood damage reduction for residential property (structures and contents), commercial property (structures and contents), and roads
- Avoided indirect costs, including emergency response, and disruption to employment, commerce, transportation, and communications

- Habitat restoration and fish passage
- Water quality improvement

These are described in greater detail in the sections below.

Description of Expected Physical Benefits

Historical Conditions

Historical flooding in Lower Mission Creek dates back to 1862 and since the 1900's, there are been no less that 20 devastating floods that have impacted City residents and businesses. The most significant recent floods occurred successively in January and February 1995. The damages from those flood events include damages to structures and contents. In the 2004 USACE Economic Appendix, the USACE estimated the January 1995 event to have produced \$13,298,000 in damage and the March 1995 event to have produced \$6,168,000 in damage. The update of historical damages was based on price indexes in the Civil Works Construction Cost Indexes System.

Table 7-1 below provides a summary of the benefits for project.

Table 7-1: Summary of Benefits

Type of Physical Benefit	Unit	Benefit	Location of Technical Justification of Physical Benefit
Flood Damage Reduction	CFS, Return Period	Increase from 1,500 cfs to 3,400 cfs	US Army Corps of Engineers Feasibility Study (2000) US Army Corps Design Documentation Report (2010)
Increased Habitat	Acres	4,000 of riparian and natively vegetated habitat zones and 10,000 sq. ft. of aquatic habitat for endangered steelhead and endangered tidewater goby	US Army Corps of Engineers EIS/EIR (2000)
Water Quality	N/A	Improved water quality in the creek.	US Army Corps of Engineers EIS/EIR (2000)

**Figure 7-1: Flooding Photos
1995 Flood UPRR**



1995 Flood UPRR



Without-Project Conditions

According to the USACE studies, the Lower Mission Creek currently has the capacity to convey 1,500 cfs or flood flow conveyance of a 5-year storm event. This is woefully inadequate.

Relationship of Project to Other Projects Included in the Proposal

The Reach 1A Phase 2 project restores 230 feet of the creek from Mason Street downstream to the pedestrian bridge north of State Street. The channel will be widened to 55 feet at the top of bank and both banks will have an average depth of 11 feet. The invert slope of the channel will be streamlined and vegetated and excavation of up to 1 foot of streambed will occur.

The Reach 1B project provides for the rehabilitation and reconstruction of 420 feet of the creek from Mason Street to Yanonali Street. Reach 1A Phase 2 is directly downstream of Reach 1B and provides continuity in expansion of the creek channel to accommodate 25-year flood flows. Habitat and fish passage improvements in Reaches 1A Phase 2 and Reach 1B provide 4,000 sq. ft. feet of riparian habitat and habitat expansion zone and 10,000 sq. ft. (creek feet) of aquatic habitat for endangered steelhead and endangered tidewater goby.

Methods Used to Estimate Benefits

The hydrology and hydraulics of Mission Creek were studied by the USACE and the results published in the Feasibility Study Technical Appendices (September 2000). The biological resources and impacts to these were studied and published in the USACE Final Lower Mission Creek EIS/EIR (September 2000). Water quality is also discussed in this document.

Benefit estimates and supporting data are drawn from the USACE economic analysis for the project (U.S. Army Corps of Engineers, 2004).

Flood damages for the without- and with-project conditions were calculated with the HEC's Flood Damage Reduction Analysis (HEC-FDA) model. Expected annual damages (EAD) were calculated with HEC's Expected Annual Damage (EAD) model.

DWR's F-RAM model was used to estimate expected annual damages to roads for the without- and with-project conditions.

Flood Damage Reduction

The USACE economic assessment is formulated to be in accordance with USACE Planning Guidance Notebook guidelines for flood damage reduction estimation (U.S. Army Corps of Engineers, April 2000). Flood damages for the without- and with-project conditions were calculated with the HEC's Flood Damage Reduction Analysis (HEC-FDA) model. Expected annual damages (EAD) were calculated with HEC's Expected Annual Damage (EAD) model.

The USACE economic analysis did not calculate expected annual damages to roads for the without- and with project conditions. However, in past flood events – particularly in 1995 and 1998 – roads incurred extensive damage and cleanup costs due to flooding. DWR’s F-RAM model was used to estimate expected annual damages to roads for the without- and with-project conditions. F-RAM damage estimates are based on miles of inundated roads in Table 7-2 and 7-3 below. Linear miles of impacted roads were calculated in AutoCAD and GIS for the Lower Mission Creek floodplain without- and with-project. Separate estimates were developed for arterial, major, and minor roads, per F-RAM input requirements.

Emergency Response/Cleanup Costs

Emergency Response/cleanup costs include evacuation and re-occupation of the floodplain, flood fighting, disaster relief and increases in normal operations of police, fire, medical, governmental and industry activity. Clean-up costs include the costs of removing and disposing sediment that covered the streets, parking lots, and public property. USACE emergency response/cleanup cost estimates are based on data from City of Santa Barbara on costs incurred in the 1995 flood events. Estimated emergency response/cleanup costs by storm magnitude for the no-project condition are summarized in Table 7-4.

Table 7-4
Emergency Response & Cleanup Costs by Storm Magnitude
(‘000 2012 Dollars)

Storm Magnitude	Emergency/Cleanup Cost
9-yr	\$360
55-yr	\$2,158
100-yr	\$3,099
500-yr	\$5,612
Source: (U.S. Army Corps of Engineers, 2004), Table E18. Dollar values updated to 2012 with the composite price index in the USACE Civil Works Construction Cost Indexes System (CWCCIS).	

Habitat Restoration and Fish Passage

The projects will provide habitat restoration benefits in the form of re-vegetated creek banks and habitat expansion areas. The creek will vegetated banks. Habitat restoration will involve planting of native trees, placement of topsoil and groundcover, use of erosion control blankets, and planting with riparian shrub species. In addition, a habitat expansion area will also be created with native trees and shrubs. In sum, 4,000 square feet of creek bank restoration and habitat expansion area will created (Project plans).

Furthermore, the fish baffles and fish ledges will also be provided along the channel walls to facilitate the passage of endangered steelhead trout and tidewater goby. With the

expansion of the creek channel, the aquatic habitat for fish would increase by a total 10,000 square feet (Project plans).

Water Quality

New Facilities Required to Achieve Benefit

No new facilities, policies or actions will be required to obtain the physical benefits. Improvement of the existing facility by widening the creek channel and providing habitat areas will create an environment that will obtain the physical benefits.

Uncertainty of Benefits

Uncertainties related to the success of this project may include:

- climate change may bring fewer and/or more extreme flood events to the region;
- financial constraints may reduce the partnering agencies ability to follow through with the project;
- the anadromous fish population may decline due to other factors and not utilize the habitat restoration improvements.

Potential Adverse Physical Effects

An EIR/EIS was prepared for the project in 2000 and a Mitigation and Monitoring Program was developed (as is appended to this application). Due to the nature of the project, construction will be initiated within the creek channel which will create temporary impacts to stream bank habitat, aquatic habitat, and any wildlife present in the immediate area. All permit requirements levied by the regulatory and wildlife agencies will be adhered to.

One commercial structure associated with Reach 1A Phase2 will need to be demolished. These are all addressed in the MMP for the project.

Annual Project Physical Benefits

The following tables present the physically quantifiable benefits for the project. One table is completed for each physically quantifiable benefit.

Flood Reduction

The table 7-6 below provides information regarding the annual physical benefit for flood reduction with and without the project.

Table 7-6 Flood Reduction

Physical Benefit: Flood Reduction			
Year	Physical Benefits		
	Without Project¹	With Project²	Difference
2012	1,500 cfs	3,400 cfs	1,900 cfs
2013	1,500 cfs	3,400 cfs	1,900 cfs
2014	1,500 cfs	3,400 cfs	1,900 cfs
Last Year of (50 year) Project Life	1,500 cfs	3,400 cfs	1,900 cfs
List supporting sources and references: USACE Feasibility Study, September 2000			

Flood Damages

USACE completed site surveys of the floodplain in 1997 and 2004 to estimate depreciated replacement value of structures in the floodplain. The structure values were based on information provided by Santa Barbara County’s Clerk-Recorder Assessor Office and construction costs from Marshall & Swift. USACE structure and contents value estimates are summarized in Table 7-7. Residential content values are based on content to structure ratios for residential structures derived from the 1997 survey data. The survey estimated the residential content to structure value to be 64.3 percent. Commercial structure content values are based on either an expert panel that was conducted in Houma, Louisiana (1997) or data from the survey of commercial structures in the Lower Mission Creek Floodplain (1997).

Flood Damages – Structures and Contents

Physical Benefit: Structures and Contents			
Year	Physical Benefits		
	Without Project³	With Project⁴	Difference
2012	\$1,049,000	\$487,000	\$562,000
2013	\$1,049,000	\$487,000	\$562,000
2014	\$1,049,000	\$487,000	\$562,000
Last Year of (50 year) Project Life	\$1,049,000	\$487,000	\$562,000
List supporting sources and references: USACE Feasibility Study, September 2000			

Flood Damages -- Roads

Physical Benefit: Roads			
Year	Physical Benefits		
	Without Project	With Project	Difference
2012	\$840,000	\$550,000	\$290,000
2013	\$840,000	\$550,000	\$290,000
2014	\$840,000	\$550,000	\$290,000
Last Year of (50 Year Project) Project Life	\$840,000	\$550,000	\$290,000
List supporting sources and references: Construction plans			

Habitat Restoration and Fish Passage

The table below provides information regarding the annual physical benefit for habitat restoration with and without the project.

Physical Benefit: Habitat Restoration and Fish Passage			
Year	Physical Benefits		
	Without Project	With Project	Difference
2012	0 acres (habitat) 22,200 sq. ft. (fish passage)	0.09 acres (habitat) 32,000 sq. ft. (fish passage)	0.09 acres (habitat) 10,000 sq. ft.
2013	0 acres (habitat) 22,200 sq. ft. (fish passage)	0.09 acres (habitat) 32,000 sq. ft. (fish passage)	0.09 acres (habitat) 10,000 sq. ft.
2014	0 acres (habitat) 22,200 sq. ft. (fish passage)	0.09 acres (habitat) 32,000 sq. ft. (fish passage)	0.09 acres (habitat) 10,000 sq. ft.
Last Year of (50 Year Project) Project Life	0 acres (habitat) 22,200 sq. ft. (fish passage)	0.09 acres (habitat) 32,000 sq. ft. (fish passage)	0.09 acres (habitat) 10,000 sq. ft.
List supporting sources and references: Construction plans			

Water Quality Improvement

Water quality is a benefit that is difficult to quantify, but water testing will be conducted regularly during and after construction and results will be recorded. Removal of old existing bank revetments, as well as increasing natural soils and plants for infiltration and treatment, will definitely improve water quality. The project will also remove extensive amounts of non-native vegetation, which will be replaced with native species.

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Attachment

8

***Stormwater Flood Management Grant Proposal
Santa Barbara County Flood Control and Water Conservation District
Flood Damage Reduction Costs and Benefits***

Attachment 8 consists of the following items:

- ✓ **Flood Damage Reduction Costs and Benefits.** Attachment 8 describes and quantifies the benefits and costs of each project in the proposal.
-

Introduction

This attachment provides information regarding the flood damage reduction costs and benefits that will be derived from the Lower Mission Creek Flood Control and Restoration Projects, Reach 1A, Phase 2 and Reach 1B. The projects will significantly reduce the risk of flood damage by increasing the flood conveyance capacity to 3,400 cfs, which equate to an increase from the existing 5-year flood conveyance to a 20-year flood flow conveyance. In addition, these projects will provide 4,000 sq. ft. of riparian and habitat extension zones along the banks and at logical places for passive open space and adds 10,000 sq. ft. of aquatic habitat for the endangered steelhead and the endangered tidewater goby. Finally, the projects also will provide water qualities benefits as a result of the bank restoration and adjacent habitat restoration occurring as part of the project.

Project Abstract

The Santa Barbara County Flood Control and Water Conservation District (SBCFCWCD), the City of Santa Barbara and the United States Army Corps of Engineers (USACE) embarked on a two decade long effort of reconnaissance studies, feasibility studies (Exhibits 3-A), planning efforts, public outreach and an Environmental Impact Statement/Environmental Impact Report (EIS/EIR) (Exhibit 3-B) to contemplate and best address the flood control measures and restoration measure that best benefit the Lower Mission Creek. According to the USACE, the primary problem affecting the lower Mission Creek is the threat of flooding to property, which affects the health, safety, and well-being of the residents of the City of Santa Barbara. As such, the proposed projects has been methodically thought out and developed to provide the maximum amount of flood protection feasible to take property owners out of harm's way.

The projects will provide improved flood protection to the thousands of residents and prevent damage to millions of dollars of valuable property. Moreover, the projects will enhance and restore deteriorated riparian habitats that will enhance channel function as opposed to undermining it. Historically, bank stabilization efforts have degraded the

natural characteristics of the creek bottom by unconfined placement of concrete material in numerous locations along the creek. Persistent non-native vegetation, especially giant reed, have invaded and overwhelmed the creek’s environs because of the loss of the riparian community. Inhospitable patchy bank treatments and periodic maintenance is necessary, in part, to control bank erosion and prevent further encroachment of weedy species and subsequent loss of conveyance capacity. As such the projects provide a balanced solution to flooding that employs a sound engineering solution with a sound environment solution,

The Reach 1A, Phase 2 project has completed 100% design (as of November 2010). The plans are for the construction of floodwalls, fish ledges and extended riparian/habitat areas. This project will increase the capacity of the creek between the pedestrian bridge and Mason street from 1,500 cfs to 3,400 cfs, widen the creek channel to increase fish habitat by 3,500 sq. ft and create environmental riparian habitat and extended habitat zones by 2,000 sq. ft.

The Reach 1B project is currently in design and has obtained 60% design plans. The project will increase the capacity of the creek between Mason street and Yanonali street from 1,500 cfs to 3,400 cfs, widen the channel to increase fish habitat by 6,600 sq. ft. and create riparian habitat and extended habitat zones of 2,000 sq. ft.

Summary Distribution of Project Benefits and Identification of Beneficiaries

Figure 8-1 below summarizes the Project’s benefits and beneficiaries. Local residents will benefit from flood protection, increased public safety, and habitat improvements and water quality.

Figure 8-1: Project Benefits and Beneficiaries

Project Benefits	Project Beneficiaries
Protection of residential property (structures and contents)	Local residents
Protection of commercial property (structures and contents)	Local businesses
Reduced damage to roads and streets	Local residents and visitors in the area
Increased public safety and reduced indirect costs, including emergency response, and disruption to employment, commerce, transportation, and communications	Local residents and businesses and regional users of transportation facilities
Habitat restoration	Anadromous fish, regional habitat
Water quality	Local residents, visitors, the creek and the ocean

Flood Damage Reduction Benefit Analysis (Section D1)

Flood damage reduction benefits were estimated with DWR’s F-RAM model. Benefit estimates and supporting data are drawn from the US Army Corps of Engineers (USACE) economic analysis for the project (U.S. Army Corps of Engineers, 2004).

Flood Damage Categories

Flood damages were estimated for the without- and with-project conditions for the following categories.

- Residential structures and contents
- Commercial structures and contents
- Roads and highways
- Indirect costs, including emergency response, and disruption to employment, commerce, transportation, and communications
- Bank stabilization costs

Historical Flood Damages

Historical flooding in Lower Mission Creek dates back to 1862, with 20 damaging floods recorded since 1900. The most significant recent floods occurred successively in January and February of 1995. Table 1 lists estimated damages to structures and contents from recent flood events. The update of historical damages to 2012 was based on price indexes in the USACE Civil Works Construction Cost Indexes System (CWCCIS). Currently, the Mission Creek channel has the capacity to convey approximately 1500 CFS (an estimated 5-year event). The project will increase the capacity to 3400 CFS (an estimated 20-year event) thereby reducing flooding of adjacent properties.

Table 8-1: Lower Mission Creek Historical Flood Damages (2012 Dollars)

Flood Event	Structure & Content Damages	Storm Magnitude
March 1995	\$10,532,824	9-Yr
January 1995	\$22,708,413	55-Yr
January 1983	\$4,717,752	10-Yr
February 1978	\$7,727,851	11-Yr
January 1967	\$34,116,466	NA
Source: (U.S. Army Corps of Engineers, 2004)		

1995 Flood, Lower Mission Creek, UPRR Crossing



Flood Damage Reduction Benefits Estimation Methodology

The USACE economic assessment is formulated to be in accordance with USACE Planning Guidance Notebook guidelines for flood damage reduction estimation (U.S. Army Corps of Engineers, April 2000). Flood damages for the without- and with-project conditions were calculated with the HEC's Flood Damage Reduction Analysis (HEC-FDA) model. Expected annual damages (EAD) were calculated with HEC's Expected Annual Damage (EAD) model.

Field surveys were completed by USACE in 1997 and 2004. The original field survey was based on a 100% field survey. The survey recorded the following items: relative First Floor Elevation (FFE), structure type, structure condition, and structure use. The purpose of the second survey was to verify any changes to residential and commercial development in the floodplain. The Lower Mission Creek floodplain was topographically mapped at a 2-foot contour interval. This mapping and field survey FFEs were combined to estimate absolute FFE. The Lower Mission Creek study area was segmented into sub-reaches to differentiate characteristics within these major reaches. Critical factors for differentiation included: discharge/frequency characteristics, overflow spatial characteristics, and economic activity.

Damage estimates have been updated from 2004 to 2012 dollars with the composite price index in the USACE Civil Works Construction Cost Indexes System (CWCCIS).

The proposed project is being constructed in reaches, seven in all. Proposition 1E funding is being requested to construct Reaches 1A-2 and 1B. The capital cost for these reaches is \$13.9 million Total project capital cost is \$83.1 million (Tetra Tech, Inc., 2011). Total project benefits are therefore scaled by a factor of 0.1673 (13.9/83.1 x 51.1) to estimate benefits for Reaches 1A-2 and 1B.

Residential and Commercial Structures in Floodplain – Structures and Contents Damage Estimate

USACE completed site surveys of the floodplain in 1997 and 2004 to estimate depreciated replacement value of structures in the floodplain. The structure values were based on information provided by Santa Barbara County’s Clerk-Recorder Assessor Office and construction costs from Marshall & Swift. USACE structure and contents value estimates are summarized in Table 2. Residential content values are based on content to structure ratios for residential structures derived from the 1997 survey data. The survey estimated the residential content to structure value to be 64.3 percent. Commercial structure content values are based on either an expert panel that was conducted in Houma, Louisiana (1997) or data from the survey of commercial structures in the Lower Mission Creek Floodplain (1997).

Structure	Structure	Depreciated Replacement Value	
Type	Count	Structure	Contents
Comm	569	\$323,524	\$136,951
MFR	312	\$84,252	\$36,575
Public	35	\$65,590	\$85,216
SFR	225	\$19,883	\$12,785
Total	1141	\$493,249	\$271,527
Source: (U.S. Army Corps of Engineers, 2004), Tables E6 & E7. Dollar values updated to 2012 with the composite price index in the USACE Civil Works Construction Cost Indexes System (CWCCIS).			

Structure and content damages were estimated with HEC-FDA using the depth-damage curves summarized in Table 3 and Table 4.

Table 8-3 - Depth-Damage Curves for Residential and Non-Residential Structures

Depth (ft)	Non-Residential		
	Residential	Wood-Frame	Masonry
-1	3%	0%	0%
0	13%	1%	2%
0.5	19%	18%	12%
1	23%	18%	12%
1.5	28%	24%	17%
2	32%	27%	17%
3	40%	31%	22%
4	47%	37%	26%
5	53%	45%	29%
6	59%	45%	30%
7	63%	46%	30%
8	67%	48%	32%
9	71%	52%	42%
10	73%	52%	48%

Source: (U.S. Army Corps of Engineers, 2004), Table E10.

Table 8-4 - Depth-Damage Curves for Residential and Non-Residential Contents

Depth (ft)	Non-Residential							
	Residential	Restaurant	Auto	Lodging	Office	Public	Retail	Warehouse
-1	2.4%	0%	0%	0%	0%	0%	0%	0%
-0.5	NA	0%	0%	0%	0%	0%	0%	0%
0	8.1%	0%	0%	0%	0%	0%	0%	0%
0.5	NA	18%	9%	8%	13%	36%	11%	8%
1	13.3%	24%	27%	15%	16%	65%	23%	12%
1.5	NA	45%	69%	18%	29%	65%	33%	16%
2	17.9%	48%	79%	22%	34%	65%	55%	20%
3	22.0%	77%	90%	38%	65%	90%	69%	27%
4	25.7%	91%	96%	43%	80%	100%	77%	31%
5	28.8%	94%	96%	45%	82%	100%	86%	39%
6	31.5%	97%	96%	45%	90%	100%	94%	46%
7	33.8%	97%	96%	45%	92%	100%	94%	53%
8	35.7%	97%	96%	45%	92%	100%	94%	61%
9	37.2%	97%	96%	45%	92%	100%	94%	68%
10	38.4%	97%	96%	53%	92%	100%	97%	73%

Source: (U.S. Army Corps of Engineers, 2004), Table E11 and Table E12.

Estimated expected annual damage (EAD) to structures and contents for the without- and with-project conditions is summarized in Table 5. EAD estimates were calculated with HEC's Expected Annual Damage (EAD) model. The EAD estimates in Table 8-5 are scaled to estimate benefits for Reaches 1A-2 and 1B.

Road Damage Estimates

The USACE economic analysis did not calculate expected annual damages to roads for the without- and with project conditions. However, in past flood events – particularly in 1995 and 1998 – roads incurred extensive damage and cleanup costs due to flooding. DWR’s F-RAM model was therefore used to estimate expected annual damages to roads for the without- and with-project conditions. F-RAM damage estimates are based on miles of inundated roads in Table 6. Linear miles of impacted roads were calculated in AutoCAD and GIS for the Lower Mission Creek floodplain without- and with-project. Separate estimates were developed for arterial, major, and minor roads, per F-RAM input requirements.

Table 8-6 - F-RAM Model Inputs: Roads

Hydrologic Event	10-Yr	25-Yr	50-Yr	100-Yr
Exceedance Probability	0.10	0.04	0.02	0.01
Impacted Roadways (miles)				
Arterial				
Without Project	0.00	0.76	1.66	2.27
With Project	0.00	0.22	0.66	2.00
Major				
Without Project	0.00	0.37	1.15	1.47
With Project	0.00	0.48	0.53	1.74
Minor				
Without Project	0.00	5.79	10.73	12.78
With Project	0.00	2.78	4.30	9.95

F-RAM expected annual damages to roads for the without- and with-project conditions are summarized in Table 8-7. The EAD estimates in Table 8-7 are scaled to estimate benefits for Reaches 1A-2 and 1B.

Table 8-7 - Present Value of Expected Annual Damage to Roads ('000 2012 Dollars)

EAD Without Project ¹	\$8.4
EAD With Project ¹	\$5.5
Annual Flood Damage Reduction Benefit	\$2.9
Useful Life of Project ²	75
Present Value Coefficient ³	13.82
Present Value of Avoided Road Damages	<u>\$40.2</u>
Notes	
¹ Road damage EAD calculated with F-RAM model	
² Default F-RAM useful life assumption for flood protection improvements.	
³ Present value in 2012 given 6% real discount rate and flood protection benefits commencing in 2016.	
Source: F-RAM model. Dollar values updated to 2012 with the composite price index in the USACE Civil Works Construction Cost Indexes System (CWCCIS).	

Emergency Response/Cleanup Costs

Emergency Response/cleanup costs include evacuation and re-occupation of the floodplain, flood fighting, disaster relief and increases in normal operations of police, fire, medical, governmental and industry activity. Clean-up costs include the costs of removing and disposing sediment that covered the streets, parking lots, and public property. USACE emergency response/cleanup cost estimates are based on data from City of Santa Barbara on costs incurred in the 1995 flood events. Estimated emergency response/cleanup costs by storm magnitude for the no-project condition are summarized in Table 8-8.

Table 8-8 - Emergency Response & Cleanup Costs by Storm Magnitude ('000 2012 Dollars)

Storm Magnitude	Emergency/Cleanup Cost
9-yr	\$360
55-yr	\$2,158
100-yr	\$3,099
500-yr	\$5,612
Source: (U.S. Army Corps of Engineers, 2004), Table E18. Dollar values updated to 2012 with the composite price index in the USACE Civil Works Construction Cost Indexes System (CWCCIS).	

Estimated expected annual damage (EAD) of emergency response and cleanup for the without- and with-project conditions is summarized in Table 8-9. EAD estimates were calculated with HEC’s Expected Annual Damage (EAD) model. The EAD estimates in Table 8-9 are scaled to estimate benefits for Reaches 1A-2 and 1B.

Table 8-9 - Present Value of Expected Annual Damage of Emergency Response and Cleanup ('000 2012 Dollars)

EAD Without Project	\$29
EAD With Project	\$12
Annual Flood Damage Reduction Benefit	\$17.9
Useful Life of Project ¹	75
Present Value Coefficient ²	13.82
Present Value of Avoided Emergency Response and Cleanup	<u>\$247.3</u>
Notes	
¹ Default F-RAM useful life assumption for flood protection improvements. ² Present value in 2012 given 6% real discount rate and flood protection benefits commencing in 2016. Source: (U.S. Army Corps of Engineers, 2004), page 24. Dollar values updated to 2012 with the composite price index in the USACE Civil Works Construction Cost Indexes System (CWCCIS).	

FEMA – Temporary Rental Assistance TRA Costs

FEMA provides grants to assist individuals and families to find suitable housing when they are displaced in cases of federally declared disasters. This assistance being directly attributable to the disaster and being an expenditure that would not be undertaken except for the disaster falls clearly under the emergency costs guidance of ER1105-2-100. Therefore, funds expended by FEMA for Temporary Rental Assistance (TRA) or Funds for Minor Emergency Home Repairs (FMEHR) in the event of flooding are NED flood damages. The average per claim expenditure by FEMA for TRA ranged from \$583 to \$2,034 with an overall average expenditure of \$1,537 per claim. The standard deviation of the average per claim expenditures is \$411. The USACE analysis assumed that TRA per claim expenditure is normally distributed with a mean of \$1,537 and a standard deviation of \$411. The mean of \$1,537 was applied as other value to each residential structure (single family and multiple family residences) in the HEC-FDA model. The HEC-FDA calculated the TRA for the without project condition to be \$23,255 (2012 dollars).

The project is expected to reduce TRA costs for residential structures in the floodplain. The average annual TRA damage amount occurring after implementation of the project is \$18,117 (2012 dollars). The TRA net annual benefit is \$5,138 (2012 dollars). Estimated expected annual damage (EAD) of TRA costs for the without- and with-project conditions is summarized in Table 8-10. The EAD estimates in Table 8-10 are scaled to estimate benefits for Reaches 1A-2 and 1B.

Table 8-10 - Present Value of Expected Annual Damage of FEMA TRA Costs ('000 2012 Dollars)

EAD Without Project	\$3.9
EAD With Project	\$3.0
Annual Flood Damage Reduction Benefit	\$0.9
Useful Life of Project ¹	75
Present Value Coefficient ²	13.82
Present Value of Avoided FEMA TRA Costs	<u>\$11.8</u>
<p>Notes</p> <p>¹Default F-RAM useful life assumption for flood protection improvements.</p> <p>² Present value in 2012 given 6% real discount rate and flood protection benefits commencing in 2016.</p> <p>Source: (U.S. Army Corps of Engineers, 2004), page 24. Dollar values updated to 2012 with the composite price index in the USACE Civil Works Construction Cost Indexes (CWCCIS).</p>	

Transportation Disruption Cost – With and Without the Projects

Flooding in the Lower Mission/Laguna Channel drainage area has impeded automobiles and the railroad traffic within the City of Santa Barbara. Even the threat of flooding and concern for public safety may make it necessary to detour traffic. USACE calculated transportation losses for the without- and with project conditions by calculating the additional operating cost by taking alternative routes and the traffic costs per passenger. The calculations of transportation losses are based upon the technical guidance of Institute of Water Resources Report 1-R-12, “Value of Time Saved for Use of Corps Planning Studies: Review of the Literature and Recommendations.” Estimated damages by storm magnitude for the without- and with project conditions are summarized in Table 8-11. Estimated expected annual damage (EAD) of disruption to transportation for the without- and with-project conditions is summarized in Table 8-12. The EAD estimates in Table 8-12 are scaled to estimate benefits for Reaches 1A-2 and 1B.

Table 11 - Transportation Damages - ('000 2012 Dollars)

Storm Magnitude	25-yr	50-yr	100-yr	500-yr
Without Project				
Traffic Delay	\$128	\$243	\$346	\$2,042
Incremental Mileage	\$42	\$73	\$88	\$135
Railroad Losses	\$0	\$32	\$32	\$43
Total Without Project	\$170	\$349	\$466	\$2,220
With Project				
Traffic Delay	\$87	\$162	\$296	\$1,909
Incremental Mileage	\$28	\$50	\$76	\$126
Railroad Losses	\$0	\$32	\$32	\$43
Total With Project	\$115	\$245	\$404	\$2,078
Source: (U.S. Army Corps of Engineers, 2004), Table E20 and Table E28. Dollar values updated to 2012 with the composite price index in the USACE Civil Works Construction Cost Indexes System (CWCCIS).				

Flood Damage Reduction (Section D2)

Avoided Bank Stabilization Costs

The channel capacity of Lower Mission Creek depends on the stability of the creek banks. It is expected that erosion will threaten the creek's banks. The District is responsible for maintaining the creek's bank. USACE estimated the agency will spend an average of \$56,250 (2012 dollars) per year to maintain the banks under the without-project condition. Bank stabilization would not be required under the with-project condition. Estimated avoided cost for bank stabilization is summarized in Table 3-13. Avoided cost estimates in Table 8-13 are scaled to estimate benefits for Reaches 1A-2 and 1B.

**Table 8-13 - Present Value of Expected Annual Damage of Creek Bank Stabilization
(‘000 2012 Dollars)**

EAD Without Project	\$9.4
EAD With Project	\$0.0
Annual Flood Damage Reduction Benefit	\$9.4
Useful Life of Project ¹	75
Present Value Coefficient ²	13.82
Present Value of Avoided Creek Bank Stabilization Costs	<u>\$130.1</u>
<p>Notes</p> <p>¹Default F-RAM useful life assumption for flood protection improvements.</p> <p>² Present value in 2012 given 6% real discount rate and flood protection benefits commencing in 2016.</p> <p>Source: (U.S. Army Corps of Engineers, 2004), page 16. Dollar values updated to 2012 with the composite price index in the USACE Civil Works Construction Cost Indexes System (CWCCIS).</p>	

**Table 12 - Present Value of Expected Annual Damage of Transportation Disruption
(‘000 2012 Dollars)**

EAD Without Project	\$4.3
EAD With Project	\$3.4
Annual Flood Damage Reduction Benefit	\$0.9
Useful Life of Project ¹	75
Present Value Coefficient ²	13.82
Present Value of Avoided Transportation Disruption Costs	<u>\$12.5</u>
<p>Notes</p> <p>¹Default F-RAM useful life assumption for flood protection improvements.</p> <p>² Present value in 2012 given 6% real discount rate and flood protection benefits commencing in 2016.</p> <p>Source: (U.S. Army Corps of Engineers, 2004), page 25. Dollar values updated to 2012 with the composite price index in the USACE Civil Works Construction Cost Indexes System (CWCCIS).</p>	

Avoided Flood Insurance Overhead Cost

The flood insurance costs that can be saved by alleviating a flood threat are the overhead and administrative cost of processing applications and operating the National Flood Insurance Program. Computer Sciences Corporation provided a list of all the FEMA policyholders within the Lower Mission Creek and Laguna Channel 100-year floodplain. The number of policies that are within the without project conditions 100-year floodplain is 237 policies. The project will reduce the size of the 100-year floodplain, causing the number of policies in the 100-year flood plan to be 174. By implementing the project, it expected that 63 policies (based on the entire 1.3 mile Reach) would not be needed. The overhead cost per policy is \$218 per policy (2012 dollars). Annual avoided flood insurance overhead cost is summarized in Table 8-14. Avoided cost estimates in Table 8-14 are scaled to estimate benefits for Reaches 1A-2 and 1B.

Annual Benefit - Avoided Costs

The table below summarizes the annual benefits of the project.

Table 8-15 - Annual Benefit

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
Year	Type of Benefit	Measure of Benefit (Units)	Without Project	With Project	Change Resulting from Project (e) - (d)	Unit \$ Value (1)	Annual \$ Value (1) (f) x (g)	Present Value Coefficient(1)	Present Value Benefit
2016-2090	FEMA Insurance Overhead (1)	Insurance Policies	40	29	-11	(\$218)	\$2,298	13.817	\$31,746
2016-2090	Lower Mission Creek Riparian Habitat(2)	Acres	0.51	0.89	0.38	\$4,235	\$1,609	13.817	\$22,237
Total Present Value of Discounted Benefits Based on Unit Value									\$53,983

Comments: (1) Project would eliminate need for 63 FEMA policies. The prorated share of the reduction for Reaches 1A-2 and 1B is 11 policies. The overhead cost per policy is \$218 per policy (2012 dollars). (2) Unit value of riparian habitat is the annualized cost of an acre of riparian mitigation credit from the Los Carneros Mitigation Bank. Mitigation credit cost is annualized at 6% over 75-year useful life of project. Present value coefficient based on 6% discount rate, 75-year useful life, and project benefits commencing in 2016.

Monetized Benefits Analysis (Section D3)

Riparian Habitat

In addition to the flood damage reduction benefits, the project will add 0.38 acres of riparian habitat to the watersheds of Lower Mission Creek. The riparian acreage is valued at \$69,696/acre, which is the cost of an acre of riparian habitat credit at the nearby Los Carneros Mitigation Bank. Given a 6% project discount rate and 75-year project life, the annualized value per acre is \$4,235. The present value benefit over the 75-year project life with benefits commencing in 2016 is \$22,237.

Project Benefits and Costs Summary (Section D4)

The present value of project benefits for Reaches 1A-2 and 1B is summarized in Table 8-16.

Table 8-16 - Present Value of Project Benefits¹ ('000 2012 Dollars)

Avoided Damages	
Residential and Commercial Structures and Contents	\$7,762.1
Roads	\$40.2
Emergency Response/Cleanup	\$247.3
FEMA Temporary Rental Assistance	\$11.8
Transportation Disruption	\$12.5
Subtotal Avoided Damages	\$8,073.9
Additional Annual Benefits	
Avoided Creek Bank Stabilization Costs	\$130.1
Avoided Flood Insurance Overhead	\$31.9
Riparian habitat	\$22.2
Subtotal Additional Annual Benefits	\$184.2
Grand Total Benefits	<u>\$8,258.1</u>
Notes	
¹ Present value in 2012 given 6% real discount rate, 75 year useful project life, and flood protection benefits commencing in 2016.	

Project Benefit Cost Ratio

The present value of project economic costs and benefits and the project benefit-cost ratio are summarized Table 8-17.

**Table 8-17 - Present Value of Project Costs and Project Benefit-Cost Ratio
('000 2012 Dollars)**

Capital Costs	Reach 1A-2/1B	Other	Sunk			
	Budgeted	Opportunity	Project	Economic	Discount	Present Value
Year	Cost ¹	Costs	Costs	Cost	Factor	Cost
2012	\$1,504	\$0	-\$1,504	\$0	1.000	\$0
2013	\$7,722	\$0	\$0	\$7,722	0.943	\$7,282
2014	\$3,923	\$0	\$0	\$3,923	0.890	\$3,491
2015	\$723	\$0	0	\$723	0.840	\$607
Total	\$13,872	\$0	-\$1,504	\$12,368		\$11,380
O&M Costs						
Annual O&M						\$3
Present Value Coefficient ²						13.82
Present Value of Future O&M Costs						\$41
Benefit-Cost Ratio						
Present Value Economic Cost (Capital & O&M)						\$11,421
Present Value Project Benefits						\$8,258
Benefit-Cost Ratio						<u>0.72</u>
Notes						
¹ From Attachment 8 Data Request. ³ Present value in 2012 given 6% real discount rate, 75 year useful project life, and O&M costs commencing beginning of 2016.						

Non-Monetized Benefits

The table below presents a summary of all the non-monetized benefits the project provides.

No.	Question	Enter "Yes", "No" or "Neg"
	Community/Social Benefits	
	Will the proposal	
1	Provide education or technology benefits?	No
	Examples are not limited to, but may include:	
	- Include educational features that should result in water supply, water quality, or flood damage reduction benefits?	
	- Develop, test or document a new technology for water supply, water quality, or flood damage reduction management?	
	- Provide some other education or technological benefit?	
2	Provide social recreation or access benefits?	Yes
	Examples are not limited to, but may include:	
	- Provide new or improved outdoor recreation opportunities?	
	- Provide more access to open space?	
	- Provide some other recreation or public access benefit?	
3	Help avoid, reduce or resolve various public water resources conflicts?	Yes
	Examples are not limited to, but may include:	
	- Provide more opportunities for public involvement in water management?	
	- Help avoid or resolve an existing conflict as evidenced by recurring fines or litigation?	
	- Help meet an existing state mandate (e.g., water quality, water conservation, flood control)?	
		The projects are found in Santa Barbara County Floodplain Management Task Force recommendation and the projects are the outcome of 20 years of collaborative planning with the City of Santa Barbara and the USACE
4	Promote social health and safety?	Yes
	Examples are not limited to, but may include:	
	- Increase urban water supply reliability for fire-fighting and critical services following seismic events?	
	- Reduce risk to life from dam failure or flooding?	
	- Reduce exposure to water-related hazards?	
		The projects directly remove 11 parcels from the floodplain and they increase the conveyance capacity from a 5-year event to a 20-year events, which equates to a 125% increase in conveyance

No.	Question	Enter "Yes", "No" or "Neg"
5	Have other social benefits?	No
	Examples are not limited to, but may include:	
	- Redress or increase inequitable distribution of environmental burdens?	
	- Have disproportionate beneficial or adverse effects on disadvantaged communities, Native Americans, or other distinct cultural groups?	
	Environmental Stewardship Benefits:	
	Will the proposal	
6	Benefit wildlife or habitat in ways that were not quantified in Attachment 7?	Yes
	Examples are not limited to, but may include:	The widening of the channel provides for a 10,000 sq. ft. increase fish habitat and 4,000 sq. ft. of riparian and extened native vegetation zones
	- Cause an increase in the amount or quality of terrestrial, aquatic, riparian or wetland habitat?	
	- Contribute to an existing biological opinion or recovery plan for a listed special status species?	
	- Preserve or restore designated critical habitat of a listed species?	
	- Enhance wildlife protection or habitat?	
7	Improve water quality in ways that were not quantified in Attachment 7?	No
	Examples are not limited to, but may include:	
	- Cause an improvement in water quality in an impaired water body or sensitive habitat?	
	- Prevent water quality degradation?	
	- Cause some other improvement in water quality?	
8	Reduce net emissions in ways that were not quantified in Attachment 7?	No
	Examples are not limited to, but may include:	
	- Reduce net production of greenhouse gasses?	
	- Reduce net emissions of other harmful chemicals into the air or water?	
9	Provide other environmental stewardship benefits, other than those claimed in Sections D1, D3 or D4?	No
	Sustainability Benefits:	
	Will the proposal	
10	Improve the overall, long-term management of California groundwater resources?	No
	Examples are not limited to, but may include:	
	- Reduce extraction of non-renewable groundwater?	
	- Promote aquifer storage or recharge?	
11	Reduce demand for net diversions for the regions from the Delta?	No
12	Provide a long-term solution in place of a short-term one?	Yes
	Examples are not limited to, but may include:	The project increases the conveyance capacity by 125%, which is a long-term solution.
	- Replace a temporary water supply with a more permanent supply?	
	- Replace a temporary water quality solution with a more permanent solution?	
	- Replace temporary flood control management with a more permanent solution?	
	- Replace temporary habitat with a more permanent solution?	
13	Reduce water consumption on a permanent basis?	No
14	Promote energy savings or replace fossil fuel based energy sources with	No

No.	Question	Enter "Yes", "No" or "Neg"
	renewable energy and resources?	
	Examples are not limited to, but may include:	
	- Reduce net energy use on a permanent basis?	
	- Increase renewable energy production?	
	- Include new buildings or modify buildings to include certified LEED features?	
	- Provide a net increase in recycling or reuse of materials?	
	- Replace unsustainable land or water management practices with recognized sustainable practices?	
15	Improve water supply reliability in ways not quantified in Attachment 7?	No
	Examples are not limited to, but may include:	
	- Provide a more flexible mix of water sources?	
	- Reduce likelihood of catastrophic supply outages?	
	- Reduce supply uncertainty?	
	- Reduce supply variability?	
16	Other (If the above listed categories do not apply, provide non-monetized benefit description)?	No

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Attachment 9 consists of the following items:

- ✓ **Program Preferences.** Attachment 9 contains detailed information on how the proposal will meet the program preferences described in the IRWM Guidelines.

Program Preferences Met by Proposal

The *Lower Mission Creek Flood Control and Restoration Project* Reach 1A Phase 2 and Reach 1B meets six out of eight Program Preferences identified in the Proposition 84 & Proposition 1E IRWM Guidelines. This attachment details the specific Program Preferences that are met by the Project, the certainty that the Proposal will meet the Program Preferences and the breadth and magnitude to which the Program Preferences will be met. Table 9-1, below identifies the Program Preferences met by the project and Table 9-2 identifies the Statewide Priorities addressed by the project.

Description of the How Reaches 1A Phase 2 and Reach 1B Projects Meet the Program Preferences

(1) Includes Regional Projects and Programs

The projects benefit the Mission Creek Watershed in the south coast sub-region. The Mission Creek watershed has its headwaters in the Los Padres National Forest and covers approximately 7,400 acres. Mission Creek extends 7.5 miles from the mountains, winding through the downtown Santa Barbara area to the beach just east of Stern's Wharf. The upper portion of the watershed has relatively undisturbed aquatic habitat and riparian corridors that support a diversity of plants and animals. There are also relatively dense oak woodlands that provide good wildlife habitats. In the lower portion of the watershed where the projects are being proposed, the majority of the creek is lined with rock and/or concrete and there is little native vegetation or wildlife habitat. In combination, the projects will provide 10,000sq. ft. of (creek feet) of fish habitat for endangered anadromous steelhead trout and endangered tidewater goby. The projects in concert provide 4,000 sq. ft. of riparian habitat and extended habitat restoration zones along the identified Reaches, which will provide for increased water quality and passive open space zones for residents and tourists.

Table 9-1: Program Preferences Met by Proposal

Project	Program Preferences							
	(1) Includes Regional Projects or Programs	(2) Integrates Projects within a Hydrologic Region	(3) Resolves Significant Water-Related Conflicts Within Region	(4) Contribute to Attainment of one or more CALFED objectives	(5) Addresses Critical Water Supply or Quality Needs of DAC	(6) Integrates Water Management with Land Use Planning	(7) Eligible for SWFM funding	(8) Addresses Statewide Priorities
<i>Lower Mission Creek Flood Control and Restoration Project</i> Reach 1A Phase 2 and Reach 1B	✓	✓	✓			✓	✓	✓

Table 9-2: Address Statewide Priorities

Project	Assist in Meeting Statewide Priorities							
	Drought Preparedness	Use and Reuse Water More Efficiently	Climate Change Response Actions	Expand Environmental Stewardship	Practice Integrated Flood Management	Protect Surface Water Quality and Groundwater Quality	Improve Tribal Water and Natural Resources	Ensure Equitable Distribution of Benefits
<i>Lower Mission Creek Flood Control and Restoration Project</i> Reach1A Phase 2 and Reach 1B			✓	✓	✓	✓		

Lower Mission Creek has the poorest water quality of all of the City of Santa Barbara's urban creeks. The existing lack of natural stream bottom, wetlands and riparian buffers, eliminates the potential for pollutants to be naturally filtered. Hence, with the widening of the natural creek bottom, the natural water filtration will increase and water quality.

The Mission Creek drainage area, which drains into the Pacific Ocean is the largest of all the coastal streams in the Santa Barbara area. This area affects a great swath of beach and the ocean, hence improvement of water quality is a regional benefit.

Restoration of historic aquatic habitat for steelhead and tidewater goby has a regional benefit in that Mission Creek is considered the most viable stream for steelhead trout restoration within the City of Santa Barbara. Mission Creek has an existing population of rainbow trout, contains high quality spawning and rearing habitat within the stream channels in the mid and upper watershed, and has a documented historic run of steelhead trout.

(2) Integrates Projects Within an Identified Region

These projects integrate with other South Coast Watershed and Goleta Slough Watershed anadromous fish restoration project, including the San Jose Creek Flood Control Improvement Project, and the Old Mission Creek Storm Water and Restoration Project.

These projects also integrate with the San Jose Creek Union Pacific Railroad Bridge Replacement Project and the Las Vegas Creek Union Pacific Railroad Bridge Replacement Project within the San Pedro Creek and Las Vegas Creeks Watersheds.

(3) Resolves Significant Water-Related Conflicts Within a Hydraulic Region

Over the past 100 years, the Lower Mission Creek has flooded no less than 20 times and caused serious damage. Given the grave threat that Lower Mission Creek poses to a highly urbanized and densely populated area, combined with the devastating flood damage that has been experienced, the City of Santa Barbara, the SBCFCWCD, and the USACE have spent 20 years developing reconnaissance studies, feasibility studies planning efforts, public outreach and an EIS/EIR to contemplate and best address the flood control measures and restoration measure that best benefit the Lower Mission Creek.

The battle to reestablish the federally threatened species, the Central California Coast Steelhead and the Tidewater Goby has been ardently fought for decades. These projects rehabilitate important habitat required to reestablish the species in the region and moves to resolve this long-standing conflict between the natural environment and the built environment.

Lower Mission Creek has the poorest water quality of all of the City of Santa Barbara's urban creeks. The existing lack of natural stream bottom, wetlands and riparian buffers, eliminates the potential for pollutants to be naturally filtered. With the widening of the natural creek

bottom, combined with the restoration of 4,000 sq. ft. of riparian habitat and habitat extension zones, the natural water filtration will increase and water quality.

(6) Effectively Integrates Water Management with Land Use Planning

The impact of severe flooding on land uses (residential, commercial, and transportation) has brought land use planners from the City of Santa Barbara, the County of Santa Barbara and USACE together to craft this integrated land, water, and environmental project.

The project permitting process (CEQA and NEPA) has worked to integrate water and natural resource management with land use planning.

(7) Eligible for Stormwater Flood Management (SWFM) Funding

The project is eligible for SWFM funding because:

- The project is not part of the State Plan Flood Control (SPFC);
- The project is designed to manage stormwater runoff to reduce flood damage;
- The project yields multiple benefits including ecosystem benefits and flood control benefits, and
- The project is consistent with the applicable Regional Water Quality Control Plan to manage stormwater runoff to reduce flood damages.

(8) Addresses Statewide Priorities

The Project addresses Statewide Priorities as detailed in Table 9-2 below.

The project addresses seven Statewide Priorities:

- *Climate Change Response Actions* – by identifying and mitigating the expected increase in extreme weather events including the increased number of flood events and increases severity of each flooding event. This project demonstrates proper management of flood waters within the watershed through use of an adaptation strategy that will positively impact the health of the ecosystem and mitigate the negative impact of flooding.
- *Expands Environmental Stewardship* – by reestablishing fish habitat and opening up the opportunity for fish passage by expanding the natural streambed and replacing a concrete grade control structure that blocks fish passage with a fish transition structure, approximately



10,000 feet of fish habitat for anadromous steelhead trout is created.

- *Practices Integrated Flood Management* – by providing improved flood protection and habitat restoration; thereby, enhancing the floodplain ecosystem.
- *Protect Surface Water and Groundwater Quality* – protects surface water by filtering urban runoff and stormwater through an expanded natural soft-surfaced creek bed and by restoring 4,000 square feet of riparian habitat and habitat extension zones which will provide shade to the channel and filtration of water prior to creek entry.

Certainty that the Proposal will meet Program Preferences

The *Lower Mission Creek Flood Control and Restoration Project* has undergone extreme scrutiny during the IRWMP stakeholder process and, therefore, there is great certainty the project will meet the Program Preferences. Stakeholders who evaluated the *Lower Mission Creek Flood Control and Restoration Project* included engineers, scientists, and planners. After this evaluation, the project was ranked in the top 40 out of over 200 projects in the IRWM Plan. Two subsequent bi-annual reviews of all regional projects by the regional have continued to place the project in the top tier of regional projects.

The project meets criteria designed to address Proposition 1E requirements and achieves multiple IRWM Plan objectives. The project has the ability to achieve its required benefits, is technically feasible, has secured more than 50% of matching funds, and is implementable within a reasonable length of time after the grant award date.

The existing data, studies, and permits issued demonstrate the project is technically sound and likely to be implemented. The studies bring the design of Reach 1B to 60% complete and Reach 1A Phase 2 is 100% complete in design. Most permits required for the project are completed showing that there are multiple agencies that agree that the project will meet Program Preferences. The existing data, studies, and permits are listed below in Table 9-3.

Table 9-3: Existing Data, Studies, and Permits

Project	Existing Data, Studies, and Permits
<p><i>Lower Mission Creek Flood Control and Restoration Project Reach 1A Phase2 and Reach 1B</i></p>	<ul style="list-style-type: none"> • USACE Improvement Plan for Lower Mission Creek, 1960’s; • 1986 USACE Feasibility Study, “The Lower Mission Creek Project”; • USACE Initial Reconnaissance Study Report, November 1995; • USACE Feasibility Phase Study. September, 2000. • USACE EIR/EIR, 2000 • 100% Design Plans for Reach 1A, Phase 2 and 60% Design Plans for Reach 1B • ACOE Section 404 Nationwide Permit • California Fish and Wildlife 1600 Streambed Alternation Permit • U.S. Fish & Wildlife Service Biological Opinion • California Coastal Commission Coastal Development Permit • California Regional Water Quality Control Board Water Quality Certification • NOAA Biological Opinion

The *Lower Mission Creek Flood Control and Restoration Project* will utilize the highest of technical standards and employ the most experienced construction team and by complying with the rigorous State and Federal regulatory permit system.

Table 9-4: Technical Standards

Project	Technical Standards
<p><i>Lower Mission Creek Flood Control and Restoration Project Reach 1A Phase2 and Reach 1B</i></p>	<ul style="list-style-type: none"> • Construction Design Standards include the latest editions of the California Department of Transportation Standard Specifications and Standard Plans, American Public Works Association standard Specifications for Public Works Construction • Army Corps of Engineers, Engineering Technical Manuals

Breadth and Magnitude that Project will meet Program Preferences

The breadth and magnitude to which the *Lower Mission Creek Flood Control and Restoration Project* will meet Program Preferences can be gauged by how the project meets the IRWM Plan objectives, as described in detail in Attachment 3. The *Lower Mission Creek Flood Control and Restoration Project* Reach 1A Phase 2 and Reach 1B are consistent with five of the IRWM Plan objectives. The objectives are listed in Table 9-5 below.

Table 9-5: Project Meets IRWM Plan Objectives

IRWM Plan Objective	Project Objectives			
	Objective 1: Replace Bridge	Objective 2: Increase Conveyance Capacity	Objective 3: Protect habitat and ecosystems	Objective 4: Protect water quality
 Protect, restore, and enhance natural processes and habitats			✓	
 Implement flood control measures	✓	✓		
Improve emergency preparedness		✓		
 Maintain and enhance water and wastewater infrastructure efficiency and reliability.	✓	✓		
 Improve the quality of urban runoff, storm water, and wastewater			✓	✓

Table 9-6 provides both quantitative and qualitative data on the breadth and magnitude to which the project will meet the IRWM Plan objectives.

Table 9-6: Breadth and Magnitude to Which Objectives are Achieved

IRWM Plan Objective	Data on the Breadth and Magnitude to Which Project Meets IRWM Plan Objectives
 <p>Protect, restore, and enhance natural processes and habitats</p>	<ul style="list-style-type: none"> • Protects habitat from destruction of flooding by reducing flood risk to 20-year storm event from a 5-year storm event • Protects 5,900 acres of riparian habitat from flood damage • Creates approximately 14,000 creek feet of fish habitat for endangered anadromous Steelhead and endangered Tidewater Goby • Removes hundreds of sq. ft. on concrete and rock from the creek bottom and restores with natural creek bottom
 <p>Implement flood control measures</p>	<ul style="list-style-type: none"> • Reduces flood risk to 20-year storm event from a 5-year storm event • Reduces damage to property by \$9.4 million per year
<p>Improve emergency preparedness</p>	<ul style="list-style-type: none"> • The project increases the flood protection for residents and commercial properties in the vicinity of the creek
 <p>Maintain and enhance water and wastewater infrastructure efficiency and reliability.</p>	<ul style="list-style-type: none"> • Replaces flood control infrastructure including channel walls, creek bottom, fish transition structures and riparian habitat
 <p>Improve the quality of urban runoff, storm water, and wastewater</p>	<ul style="list-style-type: none"> • Protects creek water quality by filtering urban runoff and stormwater through a restored natural soft-surfaced creek • Restores 5,900 sq. ft. of riparian habitat and riparian extension zones.

Attachment

10

***Stormwater Flood Management Grant Proposal
Santa Barbara County Flood Control and Conservation District
Authorization and Eligibility Requirements***

Attachment 10 consists of the following items:

- ✓ **Authorization and Eligibility Requirements.** Attachment 10 consists of three self-certification documents: GWMP, AB 1420, and Water Meter Compliance. Only a single hard copy with wet-signatures is required for this document.

Groundwater Management Plan

The GWMP self-certification document is signed with a “wet signature” and is included in the master hard copy of this application.

AB 1420

The County is not an urban water supplier so is not required to complete this compliance document.

Water Meter Compliance

The Water Meter Compliance self-certification document signed with a “wet signature” is included in the master hard copy of this application.

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California State Water Resources Control Board
California Department of Water Resources
California Department of Public Health



**CERTIFICATION FOR
COMPLIANCE WITH WATER METERING REQUIREMENTS
FOR FUNDING APPLICATIONS**

Funding Agency name: California Department of Water Resources

Funding Program name: Proposition 1E Stormwater Flood Management Grant

Applicant (Agency name): Santa Barbara Flood Control & Water Conservation District

Project Title (as shown on application form): _____

Lower Mission Creek Flood Control & Restoration Project

Please check one of the boxes below and sign and date this form.

As the authorized representative for the applicant agency, I certify under penalty of perjury under the laws of the State of California, that the agency is not an urban water supplier, as that term is understood pursuant to the provisions of section 529.5 of the Water Code.

As the authorized representative for the applicant agency, I certify under penalty of perjury under the laws of the State of California, that the applicant agency has fully complied with the provisions of Division 1, Chapter 8, Article 3.5 of the California Water Code (sections 525 through 529.7 inclusive) and that ordinances, rules, or regulations have been duly adopted and are in effect as of this date.

I understand that the Funding Agency will rely on this signed certification in order to approve funding and that false and/or inaccurate representations in this Certification Statement may result in loss of all funds awarded to the applicant for its project. Additionally, for the aforementioned reasons, the Funding Agency may withhold disbursement of project funds, and/or pursue any other applicable legal remedy.

Thomas D. Fayram

Name of Authorized Representative
(Please print)

Signature

Deputy Public Works Director

Title

01/28/13

Date

California Department of Water Resources
Integrated Regional Water Management Grant Programs

**CERTIFICATION FOR GROUNDWATER MANAGEMENT PLAN COMPLIANCE
FOR THE
PROPOSITION 84, IMPLEMENTATION AND
PROPOSITION 1E, STORMWATER FLOOD MANAGEMENT
GRANT PROGRAMS**

Grant Program: Implementation SWFM
IRWM Region: Central Coast
Agency name: Santa Barbara County Flood Control & Water Conservation District
Lower Mission Creek Flood Control &
Project Title (as shown on application form): Restoration Project

Please check one of the boxes below and sign and date this form.

- As the authorized representative for the agency, I certify under penalty of perjury under the laws of the State of California, that the agency has prepared and implemented a GWMP in compliance with CWC §10753.7.
- As the authorized representative for the agency, I certify under penalty of perjury under the laws of the State of California, that the agency participates or consents to be subjected to an existing GWMP, basin-wide management plan, or other IRWM program or plan that meets the requirements of CWC §10753.7(a).
- As the authorized representative for the agency, I certify under penalty of perjury under the laws of the State of California, that agency consents to be subjected to a GWMP that will meet the requirements of CWC §10753.7 and be completed within 1-year of the grant application submittal date.
- As the authorized representative for the agency, I certify under penalty of perjury under the laws of the State of California that the agency conforms to the requirements of an adjudication of water rights in the subject groundwater basin.

I understand that the Department of Water Resources will rely on this signed certification in order to approve funding and that false and/or inaccurate representations in this Certification may result in loss of all funds awarded to the applicant for its project. Additionally, for the aforementioned reasons, the Department of Water Resources may withhold disbursement of project funds, and/or pursue any other applicable legal remedy.

Thomas D. Fayram
Name of Authorized Representative
(Please print)



Signature

Deputy Public Works Director
Title

01/28/13
Date

California State Water Resources Control Board
California Department of Water Resources
California Department of Public Health



**CERTIFICATION FOR
COMPLIANCE WITH WATER METERING REQUIREMENTS
FOR FUNDING APPLICATIONS**

Funding Agency name: California Department of Water Resources

Funding Program name: Proposition 1E Stormwater Flood Management Grant

Applicant (Agency name): Santa Barbara Flood Control & Water Conservation District

Project Title (as shown on application form): _____

Las Vegas and San Pedro Creek Union Pacific Railroad Bridge Replacement Project

Please check one of the boxes below and sign and date this form.

As the authorized representative for the applicant agency, I certify under penalty of perjury under the laws of the State of California, that the agency is not an urban water supplier, as that term is understood pursuant to the provisions of section 529.5 of the Water Code.

As the authorized representative for the applicant agency, I certify under penalty of perjury under the laws of the State of California, that the applicant agency has fully complied with the provisions of Division 1, Chapter 8, Article 3.5 of the California Water Code (sections 525 through 529.7 inclusive) and that ordinances, rules, or regulations have been duly adopted and are in effect as of this date.

I understand that the Funding Agency will rely on this signed certification in order to approve funding and that false and/or inaccurate representations in this Certification Statement may result in loss of all funds awarded to the applicant for its project. Additionally, for the aforementioned reasons, the Funding Agency may withhold disbursement of project funds, and/or pursue any other applicable legal remedy.

Thomas D. Fayram

Name of Authorized Representative
(Please print)

Signature

Deputy Public Works Director

Title

01/28/13

Date

California Department of Water Resources
Integrated Regional Water Management Grant Programs

**CERTIFICATION FOR GROUNDWATER MANAGEMENT PLAN COMPLIANCE
FOR THE
PROPOSITION 84, IMPLEMENTATION AND
PROPOSITION 1E, STORMWATER FLOOD MANAGEMENT
GRANT PROGRAMS**

Grant Program: Implementation SWFM
IRWM Region: Central Coast
Agency name: Santa Barbara County Flood Control & Water Conservation District
Las Vegas & San Pedro Creek Union Pacific
Project Title (as shown on application form): Railroad Bridge Replacement Project

Please check one of the boxes below and sign and date this form.

- As the authorized representative for the agency, I certify under penalty of perjury under the laws of the State of California, that the agency has prepared and implemented a GWMP in compliance with CWC §10753.7.
- As the authorized representative for the agency, I certify under penalty of perjury under the laws of the State of California, that the agency participates or consents to be subjected to an existing GWMP, basin-wide management plan, or other IRWM program or plan that meets the requirements of CWC §10753.7(a).
- As the authorized representative for the agency, I certify under penalty of perjury under the laws of the State of California, that agency consents to be subjected to a GWMP that will meet the requirements of CWC §10753.7 and be completed within 1-year of the grant application submittal date.
- As the authorized representative for the agency, I certify under penalty of perjury under the laws of the State of California that the agency conforms to the requirements of an adjudication of water rights in the subject groundwater basin.

I understand that the Department of Water Resources will rely on this signed certification in order to approve funding and that false and/or inaccurate representations in this Certification may result in loss of all funds awarded to the applicant for its project. Additionally, for the aforementioned reasons, the Department of Water Resources may withhold disbursement of project funds, and/or pursue any other applicable legal remedy.

Thomas D. Fayram
Name of Authorized Representative
(Please print)


Signature

Deputy Public Works Director
Title

01/28/13
Date