ATTACHMENT 3:

Work Plan

SANTA CLARA VALLEY WATER DISTRICT

Proposition 1E Round 2
Stormwater Flood Management Grant Program
Permanente Creek Flood Protection Proposal

Attachment 3

Santa Clara Valley Water District
Permanente Creek Flood Protection Project Grant Proposal

Work Plan

This attachment includes a summary description of the proposed Permanente Creek Flood Protection Project (Project) and the tasks required to complete the project. In accordance with Proposal Solicitation Package (PSP) requirements, **Attachment 3** consists of the following items:

- ✓ An **Introduction** section that provides a summary of the proposed Project, including a description of its goals and objectives as well as the purpose and need for the Project. This section discusses project timing/phases and linkages and synergies with other projects. Relevant maps showing the project location are provided. This section also describes work already completed and provides discusses existing data and studies supporting the project's feasibility.
- ✓ A **Proposed Work** section that provides a detailed description of the tasks required to complete this Project and the expected deliverables to DWR for assessing progress. This section also discusses coordination procedures, applicable standards, performance measures and monitoring plans. The section also describes the status of land acquisition, permitting, and environmental compliance efforts.
- ✓ **Appendices** which provide supporting documentation for this Project:

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INTRODUCTION

This section provides a detailed description of the Permanente Creek Flood Protection Project and is organized according to the specific requirements set forth in Exhibit A of the PSP.

Project Specifics

Table 3- 1 provides an abstract of the Project, the current status of the project in terms of percent completion of design, implementing agencies (as applicable), the site-specific geographic location, and the project's function in relation to the larger flood control system for the region.

Table 3- 1. Proposed Project in Stormwater Flood Management Grant Proposal

Project	Description	
Permanente Creek Flood Protection Project	*Abstract:*	The Permanente Creek Flood Protection Project will provide flood protection to the cities of Mountain View, Los Altos, and Cupertino. Implementation of the proposed project would provide flood protection for thousands of residents, businesses, and public infrastructure along the Permanente Creek corridor from a 100-year flood.
	Status:	Feasibility Study and Preliminary Design: Complete Environmental Documentation: Complete Final Design: Varies by project element; March 2013-Summer 2014 Permitting: Scheduled for June 2013 Construction: Scheduled to begin by Fall 2013
	Implementing Agencies:	Santa Clara Valley Water District
	Location:	Along portions of Permanente and Hale Creeks, from the Foothill Expressway to immediately north of Amphitheatre Parkway.
	Stormwater Conveyance:	Increase stormwater conveyance and retention capacity of flood control channels along Permanente Creek and environs to provide 100-year flood protection.
	State Plan of Flood Control:	The Project is NOT part of the State Plan of Flood Control.

Project Summary

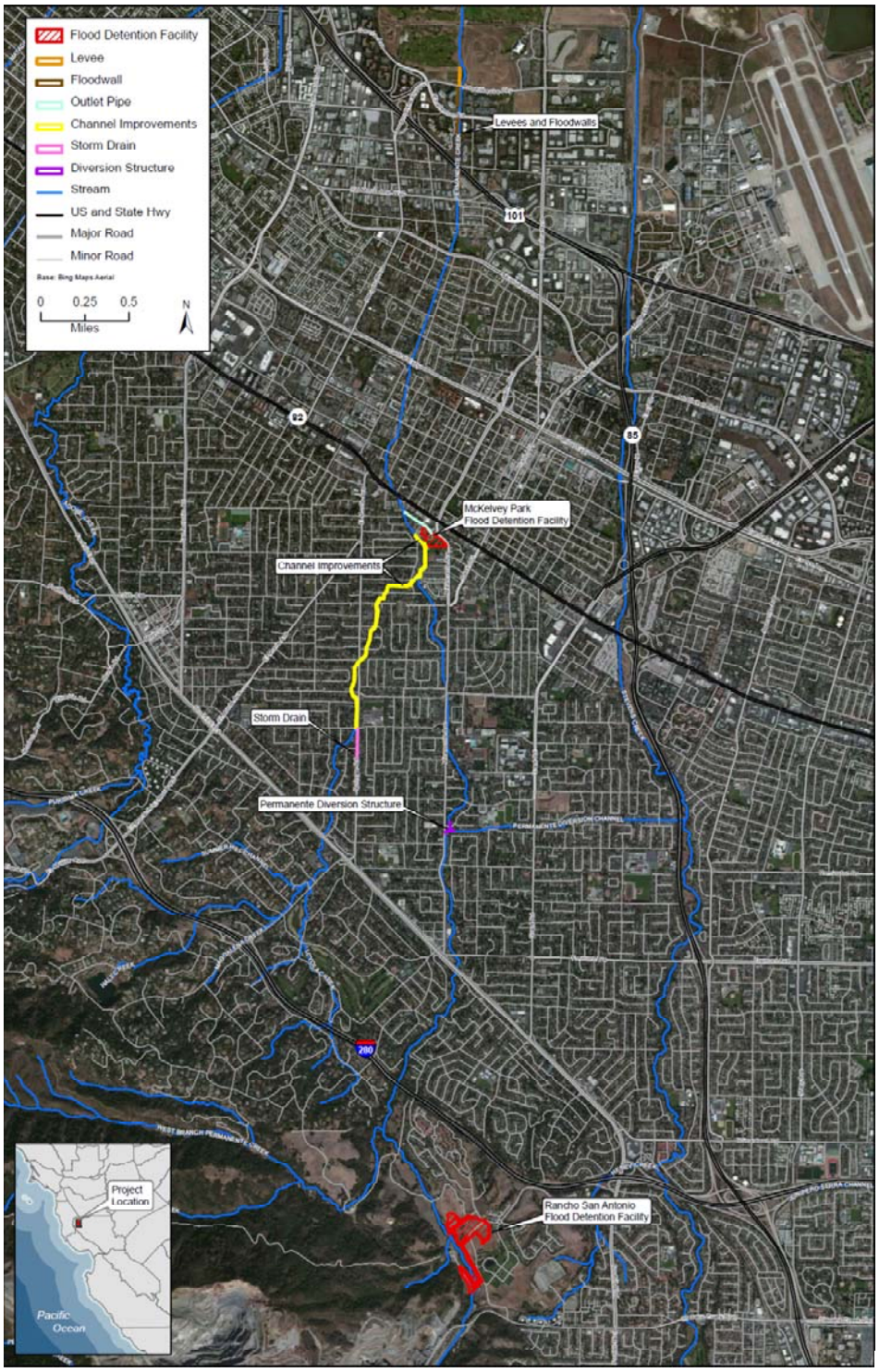
The Santa Clara Valley Water District (District) is seeking Proposition 1E Stormwater Flood Management Grant (SWFM) funding to implement flood protection for the cities of Mountain View, Los Altos, and Cupertino, California along the Permanente Creek. The District initiated the Permanente Creek Flood Protection Project study to identify flood protection, maintenance, structural repair, and habitat restoration opportunities within the watershed.

Recurrent flooding along Permanente Creek represents a long-term hazard to public safety, property values, and economic stability in the cities of Mountain View, Los Altos and Cupertino. Flooding in the Permanente Creek watershed is documented as far back as 1868, with significant flooding events occurring in 1911, 1940, 1950, 1952, 1955, 1958, 1963, 1968, 1983, 1995, and 1998. As a result, over the years, the District and other local agencies have undertaken a number of projects to improve flood protection for land uses adjacent to Permanente Creek. In recent decades, however, economic and public safety risks from flooding have increased as development has become increasingly dense. Implementation of the proposed project would provide 1% flood protection for thousands of residents, businesses, and public infrastructure along the Permanente Creek corridor. The proposed project would consist of the following project elements, shown in **Figure 3-1**:

- A 15-acre flood detention basin at Rancho San Antonio County Park.
- A 5-acre flood detention basin occupying McKelvey Park.
- A new diversion structure to improve the “flow split” at the Permanente Creek Diversion Channel.
- Floodwalls and levees along Permanente Creek from U.S. Highway 101 (US-101) to just north of Amphitheatre Parkway.

- Replacement of selected concrete portions of Permanente and Hale Creeks with wider and deeper concrete channels.

Figure 3- 1. Permanente Creek Flood Protection Project Area Overview



The Rancho San Antonio County Park Flood Detention Facility would provide off-stream flood storage at the upstream end of the Project corridor. The proposed 15-acre detention basin, currently an undeveloped area of the Park, would be contoured for a natural appearance and the bottom would be graded to create swales to aid in development of wetland vegetation. Appropriate native wetland, riparian, and upland vegetation would be planted within and adjacent to the detention area. The new detention area would be connected to Permanente Creek via inlets consisting of a spill structure and pipes placed approximately 2 to 10 feet underground. Once the flood peak passes, the stored floodwaters would drain into Permanente Creek by gravity flow, typically within one to four days. The entire 15-acre area would be available to the public for recreation the majority of the time.

The McKelvey Park Flood Detention Facility would consist of an off-stream detention basin at a 5-acre baseball facility owned by the City of Mountain View. The existing playing fields would be taken out of use, and the entire park would be excavated and lowered, with the playing fields being restored at the new ground level. The new detention basin would be about 15 feet deep and connected to the Permanente Creek channel. Once the flood peak passes, the stored floodwaters would drain back into the Permanente Creek by gravity flow and pumping, typically within one to four days. The playing fields would then be cleaned and returned to play-ready conditions.

The New Permanente Diversion Structure would replace the existing diversion structure, improving existing performance and reliability. The new diversion structure would consist of a screened opening at the bottom of the rebuilt trapezoidal concrete channel that would allow low flows to enter a concrete vault via a pipe connection to lower Permanente Creek. There would also be a high-flow weir built into the structure vault to direct flows higher than the downstream capacity into the vault.

The addition of new floodwalls and improvements to existing levees along the western side of Permanente Creek (from US-101 to Amphitheatre Parkway) will aid in flood performance and address the potential for long-term sea level rise as a result of global climate change. Floodwalls would be constructed on the land side of the levee top and would extend 2 to 4 feet above the existing top-of-bank elevation. Floodwalls would also extend several feet below the levee top as a retaining wall and would be supported by an augmented fill prism at the outboard levee toe. The floodwalls will be constructed with 4 feet of freeboard to accommodate potential impacts from sea level rise. In lieu of a floodwall downstream of Amphitheatre Parkway, the existing west bank levee would be raised 2 to 3 feet above the existing elevation. In lieu of floodwalls between Amphitheatre Parkway and Charlestown Road, three walls would be constructed against a building on the west bank of Permanente Creek to flood-proof openings in that structure that are susceptible to flooding.

Figure 3- 2. View of U-Shaped Concrete Channel at Permanente Creek

The improvements to Permanente and Hale Creeks involve changes to the existing concrete channels. For Permanente Creek, this involves deepening and enlarging the existing concrete channels, substantially increasing the channels' cross-section and flood conveyance capacity. At Hale Creek, a portion of the existing concrete channel would be replaced with a steeper and deeper concrete channel. This involves replacement of bridges at several crossings to match the profile of the new channels.

The main benefits of the Project are protection from flood damage for an estimated 2,695 parcels from a 100-year flood. This project was initiated under the District's Clean, Safe Creeks Plan. The Clean, Safe Creeks Plan ensures that the District meets its flood protection responsibilities in a way that is consistent

with its overall mission to provide environmentally sensitive water resources management and reflects the idea that a properly managed stream or river corridor can and should support multiple objectives that benefit the community and natural environment. In concert with the project construction, the District will identify opportunities for environmental enhancement such as stream restoration, trails, parks, and open space for consideration by the District's Board. The project will also reduce long-term maintenance requirements, such as removal of sediment buildup in channels.

Regional Maps

Figures 3-3 and **3-4** show regional floodplain maps for the Permanente Creek Watershed. **Figures 3-5** through **3-10** show detailed maps of specific Project elements. **Figure 3-11** demonstrates that the project is NOT part of the State Plan of Flood Control.

Figure 3- 3. Areas of Historic and Recent Flooding in the Permanente Creek Watershed

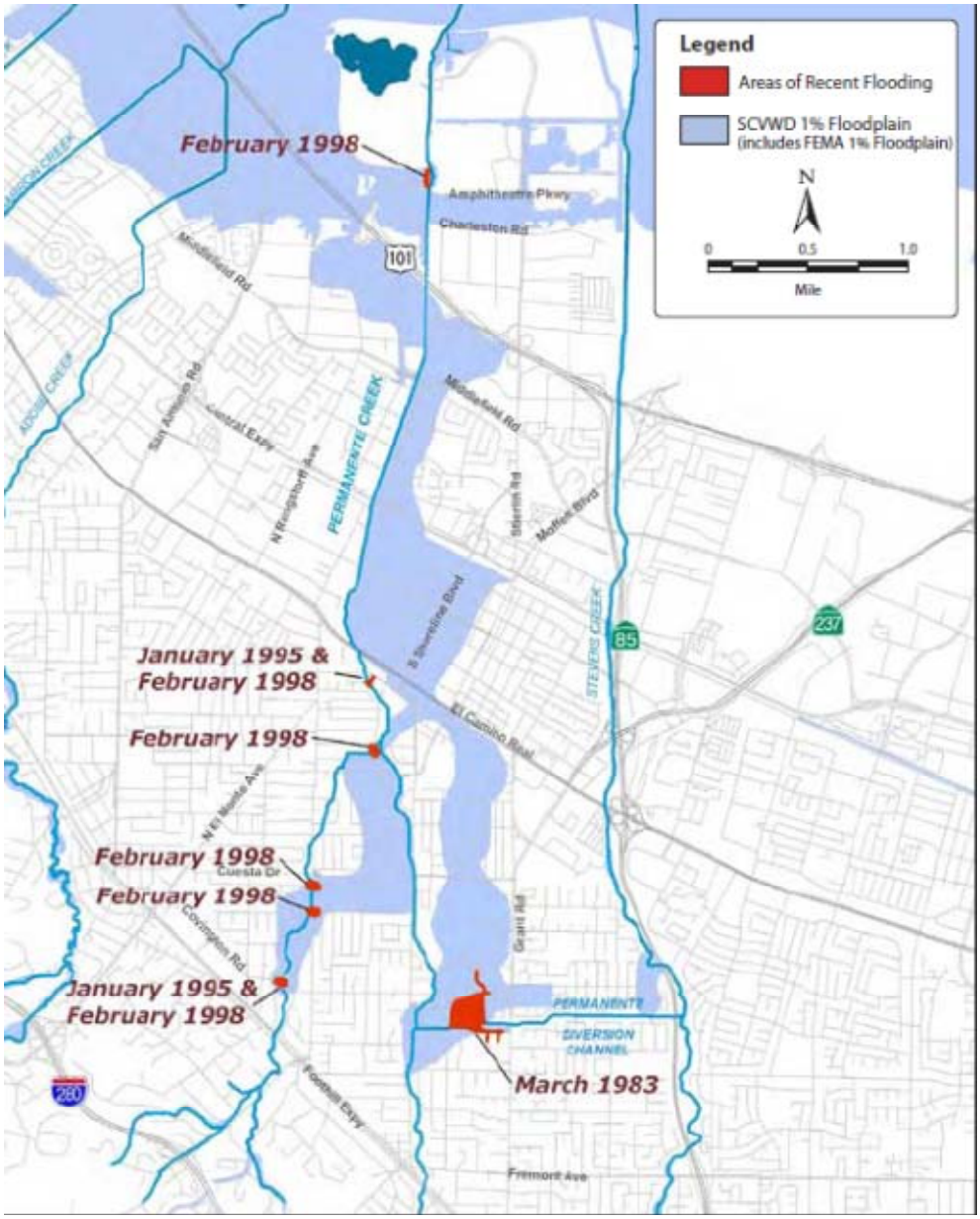


Figure 3- 4. 100-Year Floodplain for Permanente Creek Watershed

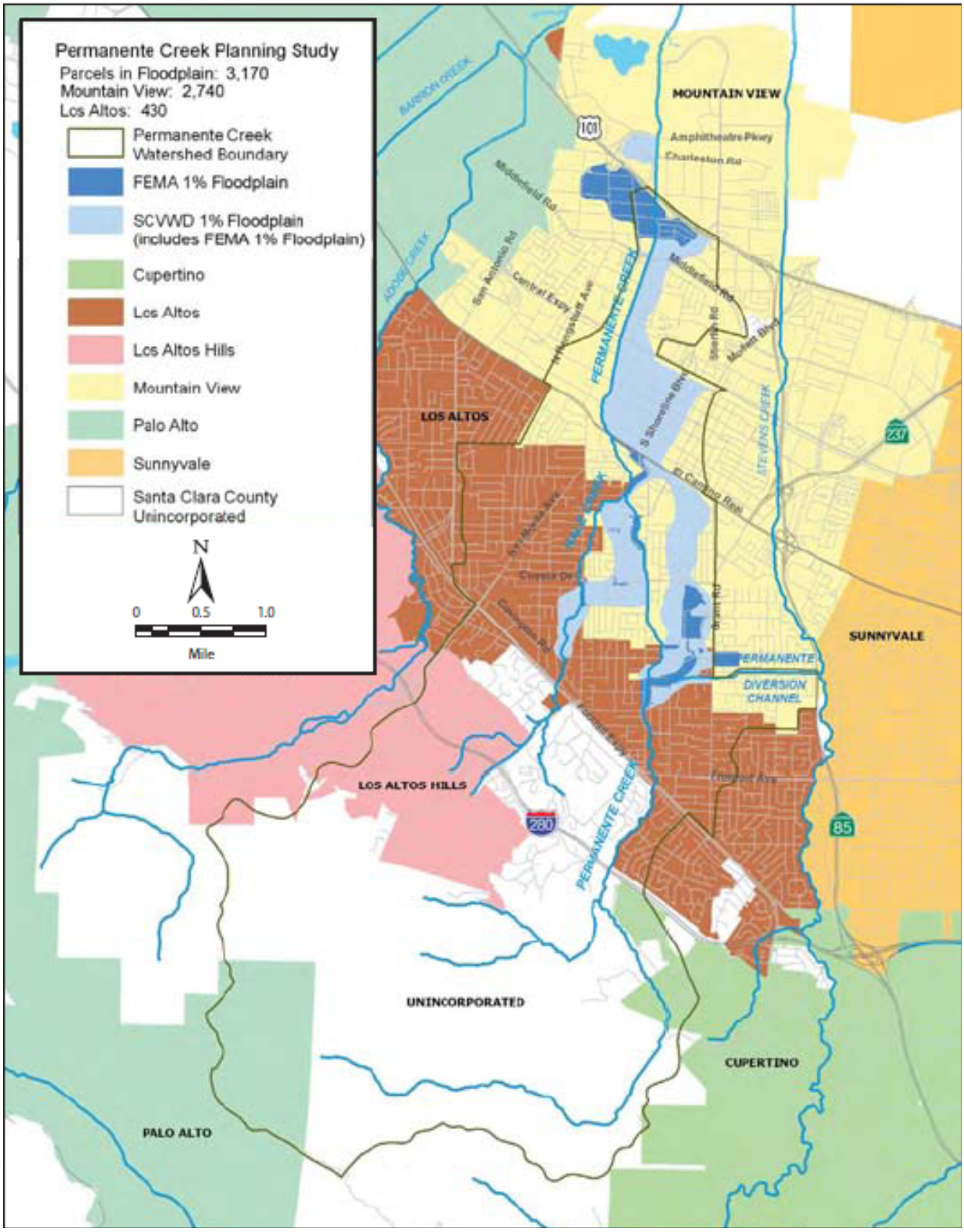


Figure 3- 5. Rancho San Antonio Flood Detention Facility

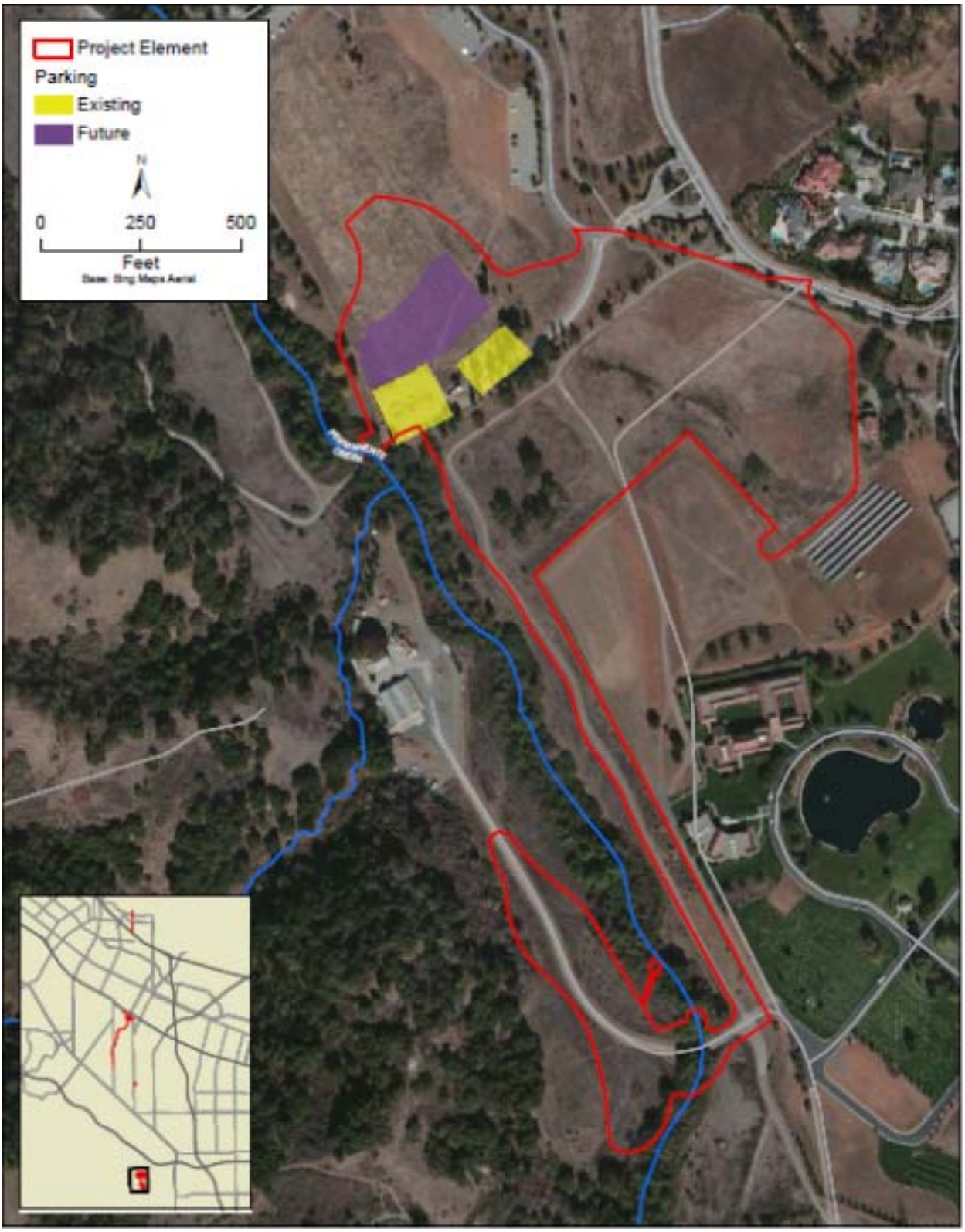


Figure 3- 6. McKelvey Park Flood Detention Facility

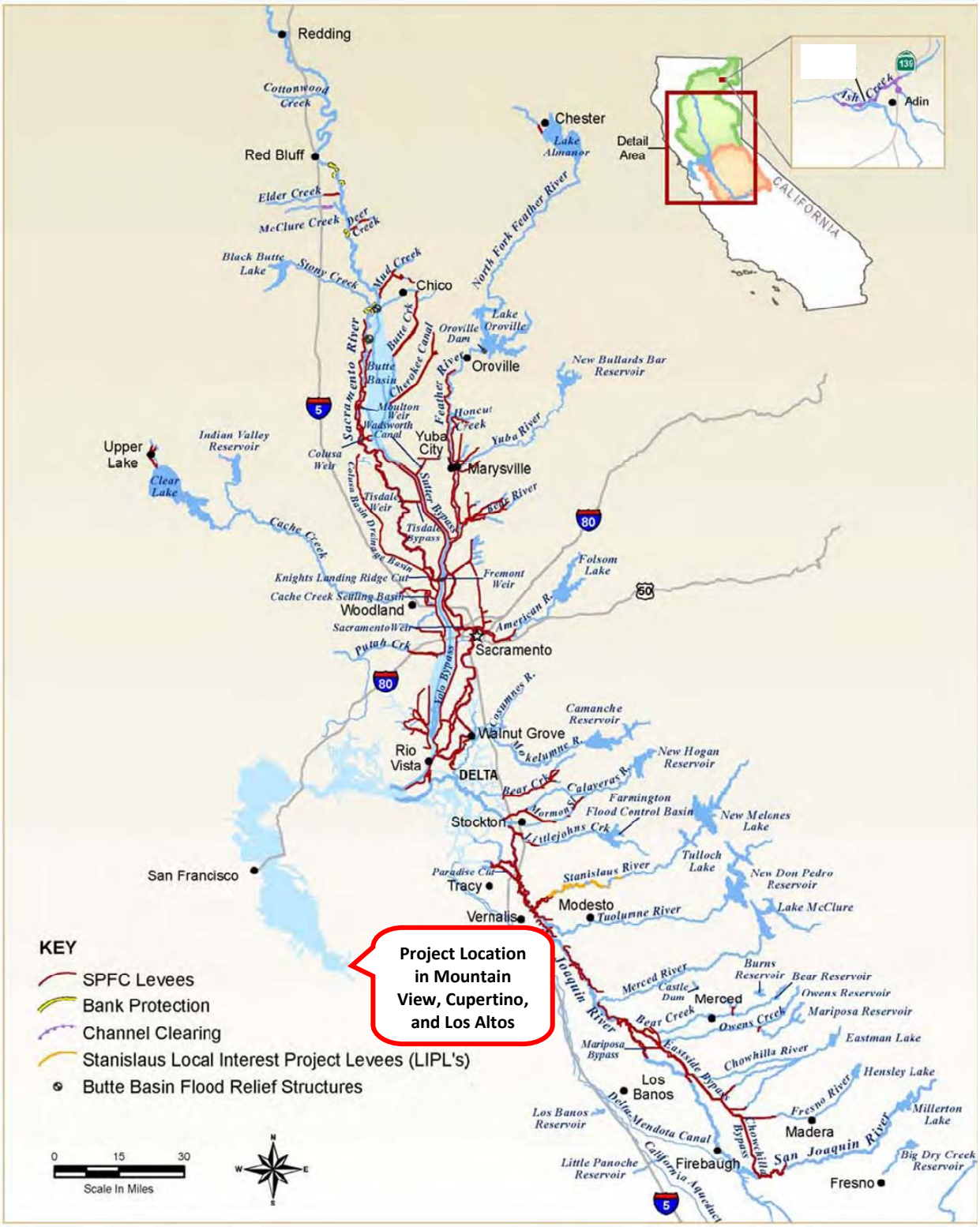
Figure 3- 7. New Permanente Diversion Structure

Figure 3- 8. Permanente Creek Floodwalls and Levees South of US-101

Figure 3- 9. Hale Creek Channel Improvements, Southern Reach

Figure 3- 10. Hale Creek Channel Improvements, Northern Reach

Figure 3- 11. Project Location Outside of the State Plan of Flood Control



Purpose and Need

The primary purpose of the Permanente Creek Flood Protection Project is to provide 100-year flood protection to over 2,695 parcels, including homes, schools and businesses, as well as critical roads and infrastructure, located in the Cities of Mountain View, Los Altos, and Cupertino. Implementation of this project also provides an opportunity to address other watershed issues and provide multiple benefits. The following provides a more detailed discussion of the need for the project, organized by specific project goals, or drivers.

Project Goal: Provide Flood Protection

The Permanente Creek Flood Protection Project is required to reduce flooding impacts to 2,695 properties during heavy rains, to improve hydraulics along Permanente and Hale Creeks, and to reduce flood damage costs to the region. The addition of two large flood detention basins at Rancho San Antonio County Park and McKelvey Park will increase system capacity and aid in stormwater desynchronization. Upgrades and new construction of floodwalls, levees, and new concrete channels along Permanente and Hale Creeks will significantly improve stormwater conveyance and help to protect properties within the watershed.

Project Goal: Reduce Sedimentation and Erosion

Erosion and sedimentation along Permanente and Hale Creeks can impede stream flow and channel capacity, degrade water quality, fish passage and establishment of native habitat. Implementation of the Project will widen channels to reduce erosion on banks, and will create a proper bankfull channel to transport sediments.

Project Goal: Improve Water Quality

The banks of Permanente and Hale Creeks are currently subject to varying degrees of erosion and sedimentation, which degrades the overall water quality of the creeks. Implementation of this Project will result in reduced sedimentation and erosion and will therefore improve water quality.

Project Goal: Restore and Protect Habitat

The proposed improvements will result in a 5 cfs increase in flows in the Permanente Creek mainstem, downstream of the diversion structure, which will enhance Cold Freshwater Habitat. In addition, through creation of detention basins at Rancho San Antonio County Park and McKelvey Park, approximately 20 acres of open space will be preserved in perpetuity.

Project Goal: Improve Maintenance Capabilities

Inadequate access makes maintenance of Permanente Creek and its tributaries more difficult, costly and time-consuming. Additionally, these creeks frequently require sediment removal from the channel bottoms to maintain flow capacity, but this process is currently burdened by a lack of suitable access for equipment.

Existing Trail along Permanente Creek, south of Amphitheatre Parkway

Implementation of this Project will provide improved access that will facilitate maintenance of the Creek. In addition, the project will reduce maintenance requirements such as sediment removal and erosion repair work caused by bank failures.

In addition, project implementation would reduce debris generated in a 100-year storm from 2,263 tons (91 truckloads) to 95 tons (4 truckloads), for a reduction of 2,168 tons of debris (reduction of 87 truckloads).

Project Goal: Expand Trail/Recreation Opportunities

At Rancho San Antonio County Park, a new restroom, new trail spur (200-300 feet of additional trail), and an additional 9-space equestrian parking lot will enhance the existing recreational facilities. At McKelvey Park, the ballfields will be restored at project completion, and a 0.7-acre mini-park will be added in collaboration with interested stakeholders.

Goals and Objectives

This section discusses how the Permanente Creek Flood Protection Project contributes to the overall goals and objectives of the Bay Area IRWMP. It also presents the project-specific goals and objectives.

Contribution to IRWMP Goals and Objectives

The District is a participant in the San Francisco Bay Area (Bay Area) Integrated Regional Water Management Plan (IRWM Plan) and the Project is one of several projects that will aid the Bay Area in meeting the IRWM Plan goals and objectives. **Table 3-1** highlights the IRWM Plan goals along with the respective objectives to achieve each goal.

Table 3-1. Bay Area IRWM Plan Goals and Objectives

IRWM Plan Goals		IRWM Plan Objectives
A	Contribute to the promotion of economic, social, and environmental sustainability	Avoiding, minimizing, and mitigating net impacts to environment
		Maintaining and promoting economic and environmental sustainability through sound water resources management practices
		Maximizing external support and partnerships
		Maximizing ability to get outside funding
		Maximizing economies of scale and governmental efficiencies
		Providing trails and recreation opportunities
		Protecting cultural resources
		Increasing community outreach and education for watershed health
		Maximizing community involvement and stewardship
		Reducing energy use and/or use renewable resources where appropriate
		Minimizing solid waste generation/maximizing reuse
		Engaging public agencies, businesses, and the public in stormwater pollution prevention and watershed management, including decision-making
		Achieving community awareness of local flood risks, including potential risks in areas protected by existing projects
		Considering and addressing disproportionate community impacts
		Balancing needs for all beneficial uses of water
		Securing funds to implement solutions
B	Contribute to improved supply reliability	Meeting future and dry year demands
		Maximizing water use efficiency
		Minimizing vulnerability of infrastructure to catastrophes and security breaches
		Maximizing control within the Bay Area region

IRWM Plan Goals		IRWM Plan Objectives
		Preserving highest quality supplies for highest use
		Protecting against overdraft
		Providing for groundwater recharge while maintaining groundwater resources
		Increasing opportunities for recycled water use consistent with health and safety
		Maintaining a diverse portfolio of water supplies to maximize flexibility
		Securing funds to implement solutions
C	Contribute to the protection and improvement of hydrologic function	Protecting, restoring, and rehabilitating natural watershed processes
		Controlling excessive erosion and managing sedimentation
		Maintaining or improving in-stream flow conditions
		Improving floodplain connectivity
		Preserving land pervious and natural infiltration capacity
		Securing funds to implement solutions
D	Contribute to the protection and improvement of the quality of water resources	Minimizing point and non-point source pollution
		Reducing salinity-related problems
		Reducing mass loading of pollutants to surface waters
		Minimizing taste and odor problems
		Preserving natural stream buffers and floodplains to improve filtration of point and non-point source pollutants
		Maintaining health of whole watershed, upland vegetation and land cover to reduce runoff quantity and improve runoff quality
		Protecting surface and groundwater resources from pollution and degradation
		Anticipating emerging contaminants
		Eliminating non-stormwater pollutant discharges to storm drains
		Reducing pollutants in runoff to maximum extent practicable
		Periodically evaluating beneficial uses
		Continuously improving stormwater pollution prevention methods
		Securing funds to implement solutions
E	Contribute to the protection of public health, safety, and property	Providing clean, safe, reliable drinking water
		Minimizing variability for treatment
		Advancing technology through feasibility studies/demonstrations
		Meeting promulgated and expected drinking water quality standards
		Managing floodplains to reduce flood damages to homes, businesses, schools, and transportation
		Minimizing health impacts associate with polluted waterways
		Achieving effective floodplain management by encouraging wise use and management of flood-prone areas
		Maintaining performance of flood protection and stormwater facilities

IRWM Plan Goals		IRWM Plan Objectives
		Partnering with municipalities to prepare mitigation action plans that reduce flood risks to the community
		Coordinating resources and mutual aid between agencies to enhance agency effectiveness
		Securing funds to implement solutions
F	Contribute to the creation, protection, enhancement, and maintenance of environmental resources and habitats	Providing net benefits to environment
		Conserving and restoring habitat for species protection
		Acquiring, protecting and/or restoring wetlands, streams, and riparian areas
		Enhancing wildlife populations and biodiversity (species richness)
		Providing lifecycle support (shelter, reproduction, feeding)
		Protecting and recovering fisheries (natural habitat and harvesting)
		Protecting wildlife movement/wildlife corridors
		Managing pests and invasive species
		Recovering at-risk native and special status species
		Improving structural complexity (riparian and channel)
		Designing and constructing natural flood protection and stormwater facilities
		Securing funds to implement solutions

The Project is consistent with five of the Bay Area's IRWM Plan goals. **Table 3-2** provides an overview of the Bay Area IRWM Plan goals that are expected to be directly (●) or indirectly (○) achieved through implementation of the project.

Table 3- 2. Contribution to IRWM Plan Goals

Proposal Project	Contribution to IRWM Plan Goals					
	A	B	C	D	E	F
Permanente Creek Flood Protection Project	○		●	●	●	●

● = directly related; ○ = indirectly related

This project contributes to the IRWM Plan objectives in the following ways:

- **Objective A** – Contributes to the promotion of economic, social, and environmental sustainability having garnered community and financial support from neighboring cities. Community awareness of the current flood risks to the region combined with public access to recreational improvements have lead to stakeholder buy-in and support for implementation of the Project. A public outreach summary has been developed and provided in **Appendix 3-1**.
- **Objective C –** Contributes to the protection and improvement of hydrologic function by controlling excessive in-stream erosion and sedimentation, improving in-stream flow conditions, and providing natural flood protection through infrastructure such as detention basins in parklands. The implemented project will have the added benefit of reducing downstream peak flows.

- **Objective D** – Contributes to the protection and improvement of the quality of water resources by reducing mass loading of pollutants to San Francisco Bay through the preservation, enhancement, and widening of the Permanente and Hale Creeks to improve filtration of point and non-point source pollutants.
- **Objective E** – Contributes to the protection of public health, safety, and property by protecting over 1,664 parcels from the 100-year flood. Additionally, the Project will improve access to the creek channel, which in turn, will enhance maintenance activities to maintain the channel's engineered capacity.
- **Objective F** - Contributes to the creation, protection, enhancement, and maintenance of environmental resources and habitats through the conservation and restoration of habitat for species protection by acquiring, protecting and/or restoring wetlands and riparian areas, improving fish passage, managing pests and invasive species, and improving structural complexity (riparian and channel).

In addition, the project has been evaluated against the draft project evaluation process under development of the IRWM Plan Update. The preliminary evaluation process and scoring are provided in **Appendix 3-2**.

Project Specific Goals and Objectives

Table 3-3 identifies the Project goals and objectives. The primary Project objective is to provide 100-year flood protection to at least 1,664 parcels in Mountain View north of El Camino Real. This Project objective is consistent with the District's Flood Protection and Stream Stewardship Master Plan (draft, 2010), which includes the following policy elements:

Policy E-3.1 Natural Flood Protection for residents, businesses, and visitors
- Balance environmental quality and protection from flooding in a cost effective manner
- Preserve flood conveyance capacity

Policy E-3.2 Reduced potential for flood damages.
- Reduce flood risk in flood prone areas

Policy E-4.3 Improved quality of life in Santa Clara County through trails and open space
- Support additional trails, parks and open space along creeks and in the watersheds when reasonable and appropriate

Table 3- 3. Project Goals and Objectives

Project Goals	Project Objectives
Provide Flood Protection	Construct the necessary improvements to provide protection to the citizens of Mountain View, Los Altos, and Cupertino (estimated 2,695 parcels) from a 100-year flood.
	Construct the necessary improvements to prevent the flooding of Middlefield Road and the Central Expressway.
	Provide natural flood protection benefits to existing communities within the Permanente Creek Watershed, using a multiple-objective approach based on integrated planning and management.
Reduce Sedimentation and Erosion	Address the deterioration of aging facilities associated with the existing flood-control channels along Permanente and Hale Creeks.
Improve Water Quality	Improve the hydrologic functionality of Permanente and Hale Creeks through structural modifications/improvements
Improve Maintenance Capabilities	Improve access for long-term maintenance
	Reduce maintenance requirements associated with sediment removal

The Project would also achieve several objectives outlined in the District's Flood Protection and Stream Stewardship Program, specifically:

- Homes, schools, businesses and transportation networks are protected from flooding
- There is clean, safe water in our creeks and bays
- Healthy creek and bay ecosystems are protected, enhanced or restored as determined appropriate by the District's Board of Directors
- There are additional open spaces, trails and parks along creeks and in the watersheds when reasonable and appropriate

The benefits of environmental quality and protection from flooding are balanced a cost effective manner.

Completed Work

A Final Subsequent Environmental Impact Report (SEIR) was certified by the District's Board in November 2012 and is provided as **Appendix 3-4**. The Project consists of a series of elements, which are being designed simultaneously: The Rancho San Antonio Flood Detention and Hale Creek Channel Widening are at 60% design, the Permanente Creek Channel Improvements are at 90% design, and McKelvey Park Flood Detention is in the conceptual design phase. **Table 3-4** presents the work that has been completed, or is expected to be completed, prior to the Grant Award Date (August 15, 2013), for each component of the Permanente Creek Flood Protection Project.

Table 3-4. Completed Work

Component	Completed as of February 1, 2013	To Be Completed Before Grant Award Date (August 15, 2013)
Rancho San Antonio County Park Detention Basin	• **Planning.** All planning for this project is complete. A Planning Study Report for this project component was completed in July 2008. • **60% Design.** The 60% design plans and specifications are complete. • **Final EIR.** A final EIR for this project component was completed in November 2012.	• **Final Design.** Design documents are scheduled to be completed by end of 2013. • **Land Easements.** The permanent easement needed for the detention basin is among public entities and will be completed by agreement. Agreements are expected to be in place by June 2013. • **Permits.** The District will be filing a comprehensive permit application in late February 2013. • **Construction Contracting.** The District intends to advertise to bid in January 2014 and award in a construction contract in February 2014.
McKelvey Park Detention Basin	• **Planning.** All planning for this project is complete. A Planning Study Report for this project component was completed in July 2008. • **Conceptual Design.** The conceptual design plans are complete. • **Final EIR.** A final EIR for this project component was completed in November 2012.	• **Conceptual Design** for the project is complete. • **Final Design.** Final design documents are scheduled to be completed in April 2014. • **Land Easements.** The permanent easement needed for the detention basin is among public entities and will be completed by agreement. Agreements are expected to be in place by June 2013. • **Permits.** The District will be filing a comprehensive permit application in late February 2013. • **Construction Contracting.** The District intends to advertise to bid in January 2015 and award the contract in February 2015.
Permanente Creek Diversion Structure	• **Planning.** All planning for this project is complete. A Planning Study Report for this project component was completed in July 2008. • **90% Design.** The 90% design plans and specifications are complete. • **Final EIR.** A final EIR for this project component was completed in November 2012.	• **Final Design.** Channel improvements include floodwall work, Permanente channel widening, and the new diversion structure, all of which are at 90% design, and are expected to be at 100% by summer 2013. • **Land Easements.** Not applicable • **Permits.** The District will be filing a comprehensive permit application in late February 2013. • **Construction.** Construction contracting will begin in January 2014 (permits will be received by the end of 2013).
Permanente Creek Improvements	• **Planning.** All planning for this project is complete. A Planning Study Report for this project component was completed in July 2008. • **90% Design.** The 90% design plans and specifications are complete. • **Final EIR.** A final EIR for this project component was completed in November 2012.	• **Final Design.** Channel improvements include floodwall work, Permanente channel widening, and the new diversion structure, all of which are at 90% design, and are expected to be at 100% by summer 2013. • **Land Easements.** Not applicable • **Permits.** The District will be filing a comprehensive permit application in late February 2013. • **Construction.** Construction contracting will begin in January 2014 and the contract will be awarded in February 2014..

Component	Completed as of February 1, 2013	To Be Completed Before Grant Award Date (August 15, 2013)
Hale Creek Improvements	• **Planning.** All planning for this project is complete. A Planning Study Report for this project component was completed in July 2008. • **60% Design.** The 60% design plans and specifications are complete. • **Final EIR.** A final EIR for this project component was completed in November 2012.	• **Final Design.** Final design documents are scheduled to be completed by summer of 2013. • **Land Easements.** Not applicable • **Permits.** The District will be filing a comprehensive permit application in late February 2013. • **Construction:** Due to construction sequencing needs, this Project component is not expected to go to bid until January of 2016 and be awarded in February of 2016.

Existing Data and Studies

The Project is supported by an array of studies that incorporate the use of sound scientific and technical principles. The following studies have been provided as Appendices to this Attachment:

- Permanente Creek Flood Protection Project Public Outreach Activity Matrix (Appendix 3-1)
- Bay Area IRWM Program Project Review Process (Appendix 3-2)
- Planning Study Report (Appendix 3-3)
- Project EIR and SEIR (SEIR provided as Appendix 3-4)
- 60% design documents (Appendix 3-5)

In addition, a Structural Integrity, Phase I Hazmat, Hydrology, and Geotechnical Studies have been completed. These documents are not referenced in this Attachment, and have therefore not been provided, but are available on request.

While project design is proceeding simultaneously for the various project elements, some elements are further along in the design process than others. With the exception of the McKelvey Park Flood Detention, which is still in the conceptual design phase, the other project elements have been designed to 60% or greater. Design is being completed in accordance with District design standards and constructability principles. All project elements are required to generate the benefits described in this proposal.

Project Timing and Phasing

The Permanente Creek Flood Protection Project is a stand-alone project and does not require the completion of any other projects in order to provide the aforementioned flood protection, water quality, habitat and recreation benefits.

The MMP and mitigation design has begun and is expected to be complete by April 2013. Final plans and specifications will be completed for project elements in 2013 and 2014. Utility agreements and survey/right-of-way (ROW) work will be conducted concurrent with design. Easements and agreements will be no-cost; costs incurred will be associated with ROW mapping and staff time in negotiating agreements.

Applications for resource agency permits will be filed in February 2013, with the expectation that these permits will be issued within six to twelve months. City and County permits will be obtained as needed for the various project elements. Construction of portions of the Permanente Creek improvements is currently underway, and will continue through 2014. Hale Creek channel improvements will begin construction in 2015, ending in 2017. The two flood detention basins – one at Rancho San Antonio County Park and the other at McKelvey Park, will begin construction in 2014 with construction lasting

about a year for each. Performance testing and demobilization will be conducted following construction of the individual elements. Construction of the Project will be completed in 2017.

Integrated Elements of Project

The Permanente Creek Flood Protection Project is an integrated, multi-purpose project that will benefit local residents and businesses within the Cities of Mountain View, Los Altos, and Cupertino and the greater Bay Area region. The Permanente Creek Flood Protection project is being implemented through the District's Clean, Safe Creeks Plan. The District has worked with the cities and their residents to develop project designs which, in addition to protecting businesses and residents from flooding, provide recreational opportunities, enhance habitat, and reduce creek erosion.

Local Synergies and Partnerships

Implementation of the Permanente Creek Flood Protection project will provide immediate flood protection benefits to over 2,695 parcels within the affected portions of the City of Mountain View, the City of Los Altos, and the City of Cupertino. The Project will also provide water quality benefits, habitat protection and restoration benefits, and recreational benefits including:

- Preservation of approximately 20 acres of habitat as open space land in perpetuity
- A 0.7 acre mini-park at McKelvey Park
- Additional equestrian parking (nine spaces) at Rancho San Antonio Park
- 5-cfs increase in flows in the Permanente mainstem downstream of the diversion structure, enhancing Cold Freshwater Habitat
- A new public restroom at Rancho San Antonio Park
- 200-300 feet of new trail at Rancho San Antonio Park

The District has created this Project after significant stakeholder involvement. This includes the formation of a Permanente Creek Task Force, comprised of local residents, City of Mountain View staff, and City of Los Altos staff. In addition, an executive committee was formed composed of the city managers of Mountain View, Los Altos, and Cupertino, an assistant executive representing the County of Santa Clara (County), the County Parks manager, and the District CEO. Consistent with the approach thus far, the Project will be implemented in coordination and partnership with several entities:

- *The City of Mountain View***.**
- *The City of Los Altos*
- *The City of Cupertino*
- *County of Santa Clara*.
- *Santa Clara County Parks*

PROPOSED WORK

The following tasks outline the specific activities that will be performed to implement the Permanente Creek Flood Protection Project. The work plan is consistent with all eligibility requirements outlined in the Project Solicitation Package (PSP) below:

- ✓ Designed to manage stormwater runoff to reduce flood damage (PRC §5096.827)
- ✓ Consistent with an adopted IRWM Plan (PRC §5096.8279(e))
- ✓ Consistent with the applicable Regional Water Quality Control Plans (Basin Plans) (PRC §5096.827)
- ✓ Not a part of the State Plan of Flood Control (SPFC) (PRC §5096.827)
- ✓ Yields multiple benefits (CWC Section 83002(a)(2)): flood protection, water quality improvements, ecosystem and restoration benefits, and reduction of in-stream erosion and sedimentation

A. Direct Project Administration Tasks

Task 1 – Project Administration, Labor Compliance Program, and Reporting:

Current Status

Project administration activities to date have been focused on coordinating the planning, design and environmental compliance work that has been completed or is on-going for the various project components. Project reporting activities to date have been primarily between the District and interested stakeholders as specific project milestones and associated technical and decision reports have been produced.

Proposed Work

Project administration tasks include administration of grants and construction contracts, coordination of design contracts, and other administrative activities required to complete the design and construction phases. 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 and schedule tracking, and compliance with the IRWMP. Additionally, the project manager and coordinator will coordinate with various agencies regarding permit, environmental, design and construction issues.

The District works to comply with all application laws, including California Labor Code provisions. The District includes prevailing wage requirements in public works project contracts. To demonstrate compliance, the District will register with the California Department of Industrial Relation's Compliance Monitoring Unit for fee based monitoring, consistent with AB 436. Registration will occur at the time of construction contract award.

The project manager will prepare and submit quarterly progress reports and invoices for the District to be forwarded to the granting agency. The progress reports will describe activities undertaken for each task, milestones that have been achieved, and any problems that have been encountered in performance of work. A completion report will be prepared and submitted once the project is completed. Grant requirements and terms of reimbursement payments would be coordinated by the District's Claims and Grants Reimbursement Unit who would serve on behalf of the District as the Grantee for the Proposition 1E Stormwater Flood Management Grant funding.

This task will also include the formation of a data management structure consistent with the IRWM Guidelines to ensure the proper monitoring and tracking of deliverables. The data management structure will following the Data Management Section in the Bay Area IRWM Plan (Section J) and will be

coordinated with the granting agency to ensure that its meet the grant requirements. This task will outline the mechanisms by which data will be managed and disseminated to stakeholders and the public and how data collection will support statewide data needs. This will include a discussion of the integration of data into the SWRCB's Surface Water Ambient Monitoring Program, Groundwater Ambient Monitoring and Assessment Program, and other relevant statewide databases as required.

Deliverables:

- *Draft and final agendas, materials and handouts, and meeting notes*
- *Budget tracking*
- *Schedule updates*
- *Labor Compliance Specifications for Bid Package and Construction Contract*
- *Quarterly progress reports and invoices*
- *Annual Report*
- *Final Report*
- *Data Management Structure*

B. Land Purchase/Easement Tasks

Task 2 – Land Acquisition and Easements:

Current Status

The construction of the two detention basins in Rancho San Antonio County Park and McKelvey Park will require easement and ROW agreements with the owners of the land – the partner public agencies of the City of Mountain View and Santa Clara County Parks. Easement and ROW agreements are necessary for the use of the portions of the agencies' lands needed for the project. Other temporary (construction) easements and ROWs may be needed for other project components, as will be determined during the detailed design process.

Proposed Work

The District is in negotiation with the City of Mountain View and the County of Santa Clara for the flood detention parcels and expects to have developed agreements by June 2013. Other easements and ROWs are being negotiated as needed with specific private land owners affected by the Project. Several of the easements have been acquired and the District expects to finalize all additional land acquisition and easement documentation prior to June 2013. **Table 3-5** provides the remaining easements to be acquired and the approximate schedule.

Deliverables:

- *Final Easement and Property Acquisition documents*

Table 3-5. Easement Acquisition

Land Purchase Easement Deliverables	Date	Status
BEFORE September 1, 2013		
Easement with City of Mountain View for Detention Facility	Expected June 2013	Agreement in process
Easement with City of Santa Clara for Detention Facility	Expected June 2013	Agreement in process

C. Planning/Design/Engineering/Environmental Documentation Tasks

Task 3 – Assessment and Evaluation:

Current Status

Planning work for the project was completed with the certification by the District's Board of the SEIR in November 2012. Additional work completed to date includes:

- Structural Integrity Study: For this study, the District collected and analyzed data on the present condition of the concrete channels constructed in the 1960s. The study's conclusion was that the majority of the concrete channels would require replacement within the next 50 years.
- Phase I Hazmat Study: For this study, the District collected data as to the potential for land and water contamination for properties adjacent to the Project. There were no issues identified that affect the current proposed Project.
- Hydrology Study: For this study, the District collected and analyzed the hydrology data available for the Permanente watershed and developed the Project hydrology model and design flows.
- Hydraulics Calculations/Modeling: The District modeled each feasible alternative to determine design parameters. The recommended project was analyzed in greater detail.
- Planning level geotechnical study: Geotechnical data was collected as appropriate and analyzed to determine rough design parameters.
- Planning Study Report: Much of the technical data collected for the Project was summarized and analyzed in this report, which described the problem, the project objectives, and conceptual and feasible alternatives to meet the project objectives. This report also implemented the District Board's Natural Flood Protection objectives to determine the recommended project and described the recommended project in greater detail.
- Environmental Documentation: The project's environmental impacts were documented in a draft and final EIR in 2009. The EIR analyzed the project's impacts, recommended mitigation as needed to reduce or eliminate the impacts, and identified impacts that could not be reduced to less than significant. As project design fine tuned and changed, it became necessary to supplement the original EIR with a subsequent document, which was completed in November 2012.

Proposed Work

There are no further tasks remaining.

Deliverables:

Not applicable

Task 4 – Final Design:

Current Status

Project design is underway for all of the project components, and some project elements are further along in the design process than others. The current design status of the various project elements is as follows:

- Rancho San Antonio Flood Detention: 60% design phase
- McKelvey Park Flood Detention: Conceptual design phase
- Permanente Creek Diversion Structure: 90% design phase
- Permanente Channel Improvements: 90% design phase
- Hale Creek Channel Improvements: 60% design phase

Proposed Work

Work under this task will consist of completion of final design drawings for each project element. Final plans and specs for all Project elements are expected to be complete in 2014.

Deliverables:

- *30% Plans for each Project element*
- *60% Plans for each Project element*
- *90% Plans for each Project element*
- *Final plans and specs for each Project element*
- *Utility Agreements*

Task 5 – Environmental Documentation:

Current Status

The project's environmental impacts were documented in a draft EIR in 2009, which was finalized in 2010. The EIR analyzed the project's impacts, recommended mitigation as needed to reduce or eliminate the impacts, and identified impacts that could not be reduced to less than significant. As project design fine tuned and changed, it became necessary to supplement the original EIR with a subsequent document, which was completed in November 2012.

Proposed Work

The District has begun work on the MMP and expects to complete this prior to the grant award date of August 15, 2013.

Deliverables:

Not applicable

Task 8 – Permitting:

Current Status

Applications for resources agency permits are currently being submitted and it is anticipated that these permits may be obtained in six to twelve months.

Proposed Work

Any required permits as identified by the CEQA review will be obtained. Regulatory permit acquisition would include:

- San Francisco Bay Regional Water Quality Control Board: Water quality certification; National Pollutant Discharge Elimination (NPDES) permitting (Permit Order No. R2-2009-0074) for discharge of stormwater from construction sites
- US Army Corps of Engineers: Permit for activities below ordinary high-water mark in waters of the United States
- US Fish and Wildlife Service: Potential need for "take" authorization under Section 7 of the federal Endangered Species Act will be determined through USACE consultation with U.S. Fish and Wildlife Service
- California Department of Fish and Game: Potential need for "take" authorization under Section 2081 *ff*. of the California Fish and Game Code will be determined through consultation with California Department of Fish and Game; Streambed Alteration Agreement for activities affecting bed/banks of a jurisdictional stream
- California State Office of Historic Preservation: Authorization under Section 106 of the National Historic Preservation Act
- City of Mountain View: Permits for work on City land and/or public ROW
- City of Los Altos: Permits for work on City land and/or public ROW
- City of Cupertino: Permits for work on City land and/or public ROW and tree removal at Rancho San Antonio County Park
- County of Santa Clara: Permits for work on County land and/or public ROW

This task assumes multiple meetings and site walks may be necessary to accommodate regulating agencies' schedules. This task would also include implementing permits consistent with the District's Regulatory Compliance Program process.

Deliverables:

- *Amend or renew environmental permits*
- *Signed agreements from agencies and private parties*

D. Construction/Implementation Tasks

Task 9 – Construction Contracting:

Current Status

The District will advertise the construction contract for each Project component and award the contract to the lowest responsive bidder. To date, a small portion of the Permanente Creek channel improvements downstream of US 101 has been constructed by the City of Mountain View as part of the City's rail improvement construction work. The City was compensated by the District for this work.

Proposed Work

Task 9 includes tasks to secure a contractor and to award the contract, including: advertisement for bids, a pre-bid meeting, bid opening, bid evaluations, selection of contractor, board approval, award of contract, and notice to proceed. These steps will conform to District Policy & Procedure 4-023, Contract Bid Process and Contract award.

Deliverables:

- *Site Showing*
- *Pre-Bid Meeting*
- *Letters of Clarification*
- *Addenda (as applicable)*
- *Memo Transmitting Engineer's Estimate*
- *Notice to Proceed*
- *Notice of Completion*

Task 10 – Construction/Implementation:

Current Status

No construction/implementation work has been initiated for any of the Project components, nor is any construction work anticipated prior to the Grant Award date.

Proposed Work

Construction activities for the Permanente Creek Flood Protection Project include the following subtasks:

Subtask 10.1 – Mobilization and Site Preparation:

Mobilization for the project will include moving the required equipment and materials onto each of the sites in preparation for construction. The site will be prepared by removing any trash, debris, and other obstructions, clearing and grubbing, and the preparation of a SWPPP. Services will also include attending the preconstruction meeting, review General Contractor technical submittals, and responding to technical questions and request for information.

Deliverables:

- *SWPPP*
- *Pre-Construction meeting*

Subtask 10.2 – Project Construction:

Due to the extent and complexity of the proposed project, various types of construction methods will be employed, including the following:

- Excavation to create detention basins, inlet/outlet facilities, and floodwall footings
- Demolition of existing structures slated for replacement
- Construction of Project elements such as retaining walls, levees, floodwalls, channels, and park improvements
- Landscaping at detention facilities
- Road repaving following installation of various underground inlet and outlet culverts

The construction associated with each element is summarized below.

Rancho San Antonio County Park Flood Detention Facility

The Rancho San Antonio County Park Flood Detention Facility will consist of an approximately 15-acre detention basin in an undeveloped portion of the park. The new basin will be constructed to be 8 to 15 feet deep, with contoured, gently sloped sides for a natural appearance. Short berms up to 5 feet high with similarly natural slopes would fill in the low areas around the basin. The bottom of the basin will be graded to create swales. Appropriate native wetland, riparian, and upland vegetation will be planted adjacent to the detention area. The basin will also be seeded and temporary erosion control measures, such as fiber rolls, will be installed to control erosion and prevent sediment from entering the creek.

The new detention areas would be connected to the Permanente Creek channel via inlets consisting of a spill structure and pipes placed approximately 2 to 10 feet underground. The existing low- flow crossing would be replaced by a culverted crossing, with the inlet structure built into the upstream side of the crossing. During construction of this crossing, a temporary bridge would be constructed to maintain access to the cemetery. The existing maintenance road would also be realigned.

Figure 3- 12. Visualization of the Rancho San Antonio County Park Flood Detention Basin

The existing parking lot design would be modified to accommodate the demand for parking. Currently, the parking lot includes 50 passenger car spaces and an equestrian gravel parking area. However, passenger car parking often spills into the gravel equestrian parking area. Therefore, the parking lot would be redesigned to provide the required number of passenger car spaces, based on current parking demand; an additional nine parking spaces would be added for an equestrian parking area. Replacement parking would be constructed in advance of disrupting/demolishing the existing parking area. A new restroom with a leach field and septic tank would also be constructed near the parking area. A new trail spur would be installed from the Hammond Snyder Loop Trail along Cristo Rey Drive, down the slope between the Gate of Heaven Cemetery and the new basin, connecting back to the Hammond-Snyder Loop Trail adjacent to the creek. Portions of the Hammond-Snyder Loop Trail not directly affected by construction and staging would remain in use, with fencing and signage provided to ensure that recreational traffic remains safely outside the construction area. Also, this trail and adjacent grassland and riparian areas would be restored to full pre-Project usability following construction of the new detention facility.

Figure 3- 13. Floodwalls and Levees Downstream of US-101

McKelvey Park Flood Detention Facility

This Project element consists of an offstream flood detention basin at the City of Mountain View's McKelvey Park. To construct the new detention basin, existing facilities would be taken out of use, the entire park would be excavated and lowered, and the playing fields would be restored at the new ground level. Designs for the restored fields and other amenities at the park are being developed cooperatively with park users and the City of Mountain View to ensure that the new facility offers a community benefit as well as needed flood protection. Artificial turf may be installed in the fields. Because the final design for this project element has not been completed, it has not been determined if artificial turf will be used or, if it is, what type it will be. The infill material composition would be selected to meet (i.e., be consistent with and not conflict with) the water quality objectives for groundwater and Permanente Creek established in the San Francisco Bay RWQCB Basin Plan.

Figure 3- 14. Visualization of McKelvey Park Flood Detention Basin

As currently envisioned, the new detention basin would be about 15 feet deep and connected to the Permanente Creek channel. Flows higher than approximately the 50-year flood event would spill into a concrete-lined side channel, then into an energy dissipation area via a short underground pipe. The new concrete-lined side channel and energy dissipation area would be constructed on the privately-owned parcel adjacent to McKelvey Park in an area comprised of turf and shrubs/trees. From there, floodwaters would spread into the detention area for temporary storage. The outlet storm drainpipe would run west along Park Drive from the park to Permanente Creek where there would be a new outlet. Low flow pumps would be installed on the property adjacent to the northwestern corner of the park. The pumps would be housed below grade in a deep wet well and continuously submerged in water.

New Permanente Diversion Structure

This project element would replace the existing Permanente Diversion Structure with a new, more reliable structure. The new diversion structure would consist of a screened opening at the bottom of the rebuilt trapezoidal concrete channel that would allow low flows to enter a concrete vault via a pipe connection to lower Permanente Creek. There would also be a high-flow weir built into the new diversion structure vault to direct flows higher than the downstream capacity into the vault. The existing 48-inch pipe connection to lower Permanente Creek would be removed and replaced with a larger pipe. No channel lining would occur at the outfall. All improvements implemented by this project

Figure 3- 15. Visualization of Floodwalls along Permanente Creek

element would occur within the existing concrete channel, with the exception of the replacement of the existing 48-inch pipe connection.

This project element would entail installation of new floodwalls and improvements to existing levees along the western side of Permanente Creek, from US-101 north (downstream) to Amphitheatre Parkway (**Figure 3-15**). Floodwalls would be constructed on the land side (outboard) of the levee top and would extend 2 to 4 feet above the existing top-of-bank elevation. Outboard floodwalls would also extend several feet below the levee top as a retaining wall and would be supported by an augmented fill prism at the outboard levee toe. To address the potential for long-term sea-level rise as a result of global climate change, there would be adequate 4 feet of freeboard built into the floodwalls, which would be enough to accommodate the potential sea-level rise.

In lieu of a floodwall downstream of Amphitheatre Parkway, the existing west bank levee would be raised 2 to 3 feet above the existing elevation. In lieu of floodwalls between Amphitheatre Parkway and Charleston Road, three walls would be constructed against the building on the west bank of Permanente Creek to flood-proof openings in the structure that are susceptible to flooding (i.e., parking garage).

Figure 3- 16. Current View of Permanente Creek Looking North from Middlefield Way (Top) and Visualization of Permanente Creek after Project Implementation with Riparian Restoration and Trail

Permanente Creek Channel Improvements

The Permanente Creek channel improvements would involve deepening and enlarging the existing U-shaped concrete channel from just upstream of Mountain View Avenue to the confluence with Hale Creek, substantially increasing the channel's cross-section and flood conveyance capacity. The depth and width along the improved channel would vary estimated between 0 to 5 feet deeper and 0 to 10 feet wider than the existing channel. The irregular concrete channel bottom of the farthest upstream 80 linear feet of Permanente Creek, just downstream of Mountain View Avenue, would be smoothed out by jack hammers and other tools, and then a smooth concrete finish would be applied. Additionally, concrete channel walls, which could be up to 7 feet high, would extend above the existing top of the channel over a distance of approximately 1,200 linear feet along Permanente Creek, from Mountain View Avenue to just downstream of confluence with Hale Creek. In addition, a 7-foot high headwall would be constructed along the upstream side of the Mountain View Avenue bridge.

Hale Creek Channel Improvements

The Hale Creek channel improvements would involve replacing the existing concrete channel, from the confluence of Permanente Creek upstream to Rosita Avenue, with a vertical-walled concrete channel that would be steeper and approximately 0 to 5 feet deeper. Various existing drop structures would be removed, steepening the channel gradient, and several of the existing bridges (among them Mountain View Avenue, North and South Sunshine Drive, Springer Road, Cuesta Drive, Arboleda Drive, and several privately owned bridges) would be replaced with new bridges that would match the profile of the new channels. Only one bridge would be closed for construction at any time. Bridge replacements would include replacement of all utilities affected by the construction, as needed, including any under-bridge sanitary sewer lines or existing storm sewers. An 800-linear-foot storm drain would be built along and under Springer Road, from Rosita Avenue to south of Riverside Drive. This pipe would capture flood flows escaping from Hale Creek upstream and convey the flows to the improved Hale Creek facility at Rosita Avenue.

Figure 3- 17. Present View of Trapezoidal Section of Hale Creek Channel

Subtask 10.3 – Performance Testing and Demobilization:

Demobilization for the Contractor will include removal of all equipments at post construction, finalization per SWPPP requirements, and final inspection by appropriate District personnel and other partner agencies/entities. In addition, the District will transfer site control for the flood detention sites to the local authorities.

The long-term operation of the constructed project will be administered in accordance to District's Stream Maintenance Program. This Program applies to all of the District's routine stream maintenance activities, including major activities such as sediment removal, vegetation management, and bank protection. Many of these activities are undertaken to ensure flood conveyance capacity is maintained in existing streams. In addition, routine maintenance includes vegetation removal in and around the streams within District's jurisdiction to ensure appropriate access and fire control. For further details on performance measures and monitoring plans in relation to this Project see **Attachment - 6 Monitoring, Assessment, and Performance Measures**.

Deliverable:

- *Project construction close out*
- *Operations and Maintenance Plan*

E. Environmental Compliance/Mitigation/Enhancement Tasks

Task 11 – Environmental Compliance/Mitigation/Enhancement:

Current Status

Mitigation measures are currently under design and a Mitigation Monitoring Plan (MMP) is being prepared for the permit applications. The Final SEIR commits to various best management practices (BMPs) and mitigation measures, included in this package as Appendix 3-4. The MMP will be prepared by March 2013.

Proposed Work

The final MMP has not yet been prepared, however, a summary of the types of mitigation measures that were included in the Final SEIR include the following:

- Visual Screening for the Affected Construction Area
- Apply Aesthetic Design Treatments to Visible Structures
- Work with Key Viewer Groups to Design Aesthetic Modifications to Floodwall Design
- Implement Tailpipe Emission Reduction for Project Construction
- Implement Bay Area Air Quality Management District (BAAQMD) Basic Construction Mitigation Measures to Reduce Construction-Related Dust
- Avoid Work During Active Breeding and Dispersal Period for Special Status Species
- Pre-construction Cultural and Biological Resource Surveys and Monitoring
- Restore Riparian Habitat in Areas of Impact
- Avoid and Protect Wetlands During Construction
- Transplant or Compensate for Loss of Protected Landscape Trees and Protect Trees from Construction Impacts
- Stockpile Topsoil and Reuse on Site
- Provide Appropriate Topsoil Materials for Site Finishing
- Development of a Dust Control Plan and Hazardous Materials contingency Plan prior to commencement of construction for use of heavy equipment resulting in the potential for adverse air emissions and leaks or spills of hazardous materials (e.g. fuel)
- Prepare and Implement a Mosquito and Vector Control Plant
- Implement Wildland Fire Safety Measures
- Provide Alternate Water Supply During Construction and Replace Groundwater Supply Well Decommissioned to Accommodate Construction
- Design Septic Systems and Drain Fields to be Compliant with the General Permit
- Ensure that Artificial Turf Infill Composition Meets Water Quality Objectives and Agency Requirements
- Noise and Vibration Reduction Measures Depending on the Type of Construction Equipment Needed
- Minimize and Provide Notification of Temporary Loss of Access to Recreation Facilities
- Provide Detour and Traffic Plan for Construction
- Implement BMPs to Reduce GHG Emissions

Deliverables:

- *Monitoring Reports*
- *Meeting Minutes*
- *Construction Compliance Report*
- *Preconstruction Survey Reports*

F. Construction Administration Tasks

Task 12 – Construction Administration and Public Outreach:

Current Status

No construction administration tasks are currently underway. District construction inspectors and engineers intend to perform all construction management activities, including inspection, responses to public inquiries, and change order management. Community feedback and support was actively sought during the project planning process of the project. The District created a Permanente Creek Task Force

composed of local citizens and staff from the affected cities to assist the project team in planning decisions. The District also held several public meetings at various local venues to discuss the project planning process and gather public input. District staff made several presentations to the city councils of Mountain View, Los Altos, and Cupertino and the County Board of Supervisors to inform them of project progress and seek feedback. District staff have also met with resource agencies and various local stakeholder groups.

Proposed Work

Construction administration activities will include general administration, construction management, and project management, and public outreach. The District's construction management department will oversee the construction sites, provide daily on-site observation, coordinate with contractors, review schedules, prepare construction related invoices, and provide inspection services to ensure construction in is compliance with District standards and other governing standards. The project manager will complete quarterly progress reports to accompany invoices to the State. The project manager will require the construction management services to submit quarterly progress reports to accompany each invoice.

Since the inception of the Coyote Watershed Program (Program) in December 1999, significant levels of public outreach have been conducted with the local neighborhoods. The methods of public outreach include holding public meetings, attending neighborhood meetings, participating in community meetings in the cities of Mountain View, Los Altos, and Cupertino, attending meetings with Caltrans and VTA, and distributing newsletters and flyers. Through these various mediums, the District has kept the public informed of the project status. This process would continue for the duration of the Project with the following activities anticipated:

- Design and distribute culturally sensitive flyers outlining the project and announcing the pre-construction meeting
- Design and distribute street flyers for closures - as needed
- Execute site walks to local project residents and businesses to maintain compliance with the aforementioned project principles, as needed
- Update project web site – as needed
- Continue communication with District Board via CEO Bulletin – as needed

A summary of public outreach completed to-date is provided in Appendix 3-1.

Deliverables:

- *Public Outreach Materials,*
- *Meeting correspondence,*
- *Contractor quarterly progress reports and invoices*

G. Other Tasks

There are no other tasks scoped at this time.

Other Project Information Requested by PSP

The following sections provide other project information specifically requested by the PSP

Project Coordination with Partners:

As discussed previously, the District has an ongoing relationship with the project partners. The District meets every two weeks with the City of Mountain View and County of Santa Clara to address coordination items related to the Project. As discussed in Attachment 4, the City has implemented a cost-share agreement with the City of Mountain View to complete a portion of floodwall design in support of the Project. In addition, the District is currently working with the City of Mountain View and the County of

Santa Clara to develop easement agreements for the Rancho San Antonio and McKelvey detention basins. Finally, the District has participated in extensive public outreach efforts in conjunction with the Cities of Mountain View, Los Altos, and Cupertino, as summarized in **Appendix 3-1**.

Standards that Will be Used In Implementation:

The design of each Project component will be completed using the District and applicable USACE design standards. Project implementation will comply with industry construction standards as well as health and safety measures.

Performance Measures and Monitoring Plans:

Details on performance measures and monitoring plans in relation to this Project see Attachment - 6 Monitoring, Assessment, and Performance Measures.

Deliverables to DWR:

- Quarterly, Annual and Final Progress Reports
- Final Design Documents
- As-Builts

APPENDIX 3-1: Permanente Creek Flood Protection Project Public Outreach Summary

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Permanente Creek Flood Protection Project – Public Outreach Efforts

Date - 2002	**Outreach**
January 29	Permanente Creek Public Meeting #1
Date - 2003	**Outreach**
March 10	Permanente Creek Public Meeting #2
Date - 2004	**Outreach**
June 3 (12pm-2pm) a	Permanente Creek Planning Study (Council Chambers CMV)
June 3 (7pm-9pm)	Permanente Creek Planning Study (Council Chambers CMV)
June 7	Permanente Creek Planning Study (Castro Elementary School)
June 8	Permanente Creek Planning Study (Covington Elementary School)
November 18	Permanente Creek Planning Study (Covington Elementary School)
November 22	Permanente Creek Planning Study (Castro Elementary School)
Date - 2007	**Outreach**
May 16	Scoping meeting held in Mountain View and Los Altos
May 19	Scoping meeting held in Mountain View and Los Altos
Date - 2008	**Outreach**
February 2	Cuesta Neighborhood Association mtng
February 12	Work Study session with City Council of Mountain View
February 26	Work Study session with City Council of Mountain View
April 8	Presentation to the L.A. City Council on the project, describing the recommended alternative
September 23	District Board mtng - approves Planning Study Report
September 30	Presentation to the Cupertino City Council on the project, describing the recommended alternative
December 9	The M.V. City Council culminated the master planning process for Cuesta Park Annex with a decision to approve flood detention in the northern portion of the Annex
Date - 2009	**Outreach**
March 16	Public meeting at Creekside Building (Cupertino) for Rancho San Antonio
April 6	Public meeting at Mariano Castro School for McKelvey Park detention basin
April 13	Public meeting at Blach School for Blach detention basin
April 27	Presentation to the Los Altos School Board on the project and the recommended alternative
August 25	Study session with the M.V. City Council on the McKelvey Park project element.
October 28	Presentation to the MPROSD on the Rancho San Antonio project element
October 29	Public hearing for the Project's Draft Environmental Impact Report (Draft EIR)
November 4	Presentation to County Parks Commission
November 17	The District Board Meeting on the Permanente Creek Flood Protection Project's seven-year public outreach efforts

Permanente Creek Flood Protection Project – Public Outreach Efforts

Date - 2010	**Outreach**
January 13	Presentation to Mountain View Parks and Recreation
March 9	Presentation to Mountain View City Council
May 5	Presentation to the County Park Commission describing the recommended alternative
May 13	Presentation to the Housing, Land Use, Environment and Transportation Committee (HLUET) on the Rancho San Antonio project element
June 17	Public meeting - District Board certified the Final EIR
July 27	The District Board approved the Permanente Creek Flood Protection Project
September 8	Informal meeting with Blach neighbors at school
September 9	Design workshop #1 for McKelvey Park project element
September 16	Design workshop #1 for Cuesta Annex project element
September 21	Presentation to the Cupertino City Council on the project, describing the recommended alternative
September 21	Design workshop #1 for Blach School project element
October 26	Design workshop #1 for Rancho San Antonio project element
November 17	Design workshop #2 for Blach School project element
November 18	Design workshop #2 for McKelvey Park project element
November 29	Design workshop #2 for Cuesta Annex project element
December 1	Presentation to the County Park Commission describing the recommended alternative
December 16	Presentation to the County Housing, Land Use, Environment and Transportation Committee (HLUET) on Rancho San Antonio element
Date - 2011	**Outreach**
January 10	Meeting with Blach School Board
January 13	Study session with the M.V. City Council on the McKelvey Park project element.
January 18	M.V. PRC meeting on McKelvey
January 20	County Board of Supervisors HULET Committee - Rancho
January 24	Meeting w/Los Altos School Board
January 31	Meeting w/ MV Public Works
February 9	M.V. PRC meeting on Cuesta
July 13	July scoping meeting (SEIR)
September 15	SCVWD & SCC Parks - presentation on Permanente
Date - 2012	**Outreach**
January 17	MV Special City Council Meeting
March 15	Design Workshop #3 for McKelvey Mini-Park project element
March 22	Meeting w/CMV to discuss inlet/outlet utilities
April 17	Meeting w/CMV RE-McKelvey Mini-Park Design
June 19	CMV Council meeting on Cuesta and MOU approval
September 19	McKelvey Park Design Workshop #4
November 20	District Board certified Final Subsequent EIR and approved project
December 11	MV City Council Meeting RE- McKelvey Park

Permanente Creek Flood Protection Project – Public Outreach Efforts

Other Outreach

Permanente Creek Task Force **:** a committee of volunteer Mountain View, Los Altos, and (recently) Cupertino residents and City of Mountain View and Los Altos staff was set up in 2003 to assist the Project team in Project planning. The Task Force has received detailed information and analysis during the planning of the Project and has provided evaluation of the problem definition, Project elements, conceptual plans, and feasible alternatives. Seven meetings were held between 2003 and 2010.

Executive Committee **:** An executive committee composed of the city managers of Mountain View, Los Altos, and Cupertino, an assistant executive representing the County of Santa Clara (County), the County Parks manager, and the District CEO was set up in 2007. Six meetings have been held thus far.

APPENDIX 3-2: Bay Area IRWMP Draft Project Review Process

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Section 6: Project Review Process

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The Bay Area IRWMP will be implemented through the specific studies, actions, projects, and programs proposed by the Region's stakeholders and participants. This chapter describes the process that was used for submitting, reviewing and scoring projects and provides the final, prioritized list of projects. Recognizing that regional priorities evolve over time, the CC will periodically review this IRWMP and the project listings herein, depending on changing conditions and availability of funds to perform future work, and make adjustments as necessary to respond to changes throughout the region.

6.1 Background

The 2006 IRWMP was adopted with 127 projects, which were sorted based on consistency with project assessment criteria. Subsequent to the adoption of the 2006 Plan, additional projects were added as appendices.

The 2006 Bay Area project prioritization process involved the following steps:

- Screen Projects for Inclusion in the IRWMP.
- Assemble IRWMP Projects into Cohorts.
- Identify Prioritization Criteria.
- Assess Projects with Respect to Criteria.

The screening method and criteria used to advance projects to the IRWMP varied by each of the four Functional Areas (FA); the cohorts were based on "readiness to proceed;" and the categories of assessment criteria were: IRWMP Goals, Bay Area Regional Criteria, Proposition 50 Program Preferences, and Proposition 50 Statewide Priorities.

The project assessment conducted for the 2006 Plan did not assign scores or rank the project list; the prioritization process was developed and implemented during the 2013 update). Based on input from DWR and the 2012 Proposition 84 Guidelines, the 2013 IRWMP project assessment criteria have been expanded beyond "readiness to proceed" to reflect the review factors identified by DWR, and the projects have been scored and ranked accordingly. The following sections describe that process.

6.2 Summary

The project prioritization process involved the following steps:

- Assembling a Master list of projects (Section 6.4.1)
- Conducting a preliminary subregional review to determine project eligibility (Section 6.4.2)
- Identifying prioritization criteria and weighting (Section 6.3.3)
- Scoring projects (Section 6.5)

To identify potential projects that support IRWMP implementation and promote its goals and objectives, the Coordinating Committee (CC) held an open "call for projects," which gave stakeholders the opportunity to submit their projects and project concepts for consideration. Stakeholders were encouraged to submit projects through a variety of channels, including subregional meetings, public workshops, email correspondence solicitations, and the IRWMP website. The solicitation yielded 332 projects submitted for inclusion in the Plan. Full project descriptions are located in Appendix XXX and http://bairwmp.org/projects.

The review and ranking process was developed by the Plan Update Team (PUT) and approved by the CC. The goal was to develop a process, from submittal through prioritization, which was transparent, replicable and consistent. Stakeholders were presented with the proposed process at the first public workshop on July 23rd and given an opportunity to provide comments.

The CC developed a scoring methodology that assigns projects into three tiers. The prioritization of projects is based upon a detailed two phase screening process consisting of an initial screening by the sub-region leads, followed by project evaluation and ranking. The process encouraged sub-regional integration while ranking at a regional level. The review and scoring process was available on the website so that project proponents were well informed about the process and how the projects would be ranked, as they completed their templates (see Section 6.3.1). All projects submitted are maintained on a Master List, and the list will be updated as projects are developed through time and re-prioritized.

A discussion of how each proposed project is related to resource management strategies selected for use in the IRWM Plan is found in Chapter 4.

6.3 Procedures for Submitting a Project to the IRWM Plan

To facilitate the project review, the PUT developed the following process and materials:

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6.3.1 Project Template

In order to be eligible for review, all proponents were required to complete and submit the project template (Appendix XXX) or input project information directly into a web-based form based upon the project template. In developing the template, the PUT attempted to balance the level of effort and resources required by the project proponent to complete it, with the information needed in order to assess and rank the project. The PUT also framed the template to encourage submittal of projects that were at a more conceptual stage rather than just ready-to-proceed projects.

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To support the submittal of projects at various stages of readiness, proponents were instructed to complete as much of the template as possible, but that all projects would be reviewed regardless of completeness. The template also outlined the cost/benefit information that would be required at a further stage for inclusion in a grant proposal. This allowed proponents to understand the level of detail that would be required to participate in a grant application, without yet requiring them to provide it.

The project template was approved by the CC in March 2012.

6.3.2 Call for Projects

The CC launched an open call for projects in June 2012. It provided a link to the Project Template on the website and indicated the submittal due date — originally September 1, later moved to September 7— offered a "Frequently Asked Questions" (FAQ) section, and provided other relevant information.

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Stakeholders were informed of the project submittal deadline and process in a number of venues and communications. Meetings included Workshop #1 which was attended by 80 people and at which project criteria and online project submittal instructions were presented in detail. Additional meetings at which the criteria, deadline and process were described included sub-regional meetings, water and land use-related meetings and workshops, local government meetings, regular meetings of water associations and other meetings at which CC members were present.

The communications avenues that explained the submittal process and deadline included the website notice and instructions, four emails to the 1,500-person master list that were related to Workshop #1, and separate email notices to the sub-regional lists.

In all the communications, stakeholders were encouraged to submit projects, by the deadline, in any stage of development, including concepts or ideas; the sub-region process provided an opportunity to move the concepts towards more developed implementation projects by providing guidance on project criteria, framing of the project in the context of being a multi-benefit, integrated project, and, in some cases, suggestions about potential partners. More information about the sub-region outreach process is provided in Chapter 14, Stakeholder Engagement.

Project proponents of both new and existing projects were instructed to complete the online project template. In order to facilitate this process, the CC did the following:

- Created a new online interface that allowed project proponents to easily update existing projects and enter new projects.
- Created basic instructions to help people input project data in the interface.
- Contacted project proponents of existing projects, including DAC-serving projects, and gave them accounts to access the site and website rights to update their own projects.
- Invited other stakeholders to submit projects.
- Provided guidance regarding the template to stakeholders at Workshop #1, including the opportunity to participate in a hands-on, step-by-step support session, though none of the participants requested that level of assistance at the workshop.

With a few minor exceptions, the online project template provided an efficient and relatively easy way to submit and collect project proposals.

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More information on the stakeholder outreach for project submittal is presented in Chapter 14, Stakeholder Engagement.

6.3.2.1 Targeted Assistance for DAC Project Proponents

An effort was made to assist organizations and agencies with limited technical and time capacities to submit projects accurately and on time, particularly for projects serving DACs. The consultant team, sub-regional leads and SFEP staff provided outreach and assistance to DAC project proponents in a variety of ways, including:

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- Developing a series of DAC-specific maps to help project proponents easily identify DACs and their relation to water resource facilities. These maps were posted on the BAIRWMP website and sent to the master distribution list to ensure that all stakeholders were aware of this resource and could access it easily.

- Clarifying DWR's DAC project eligibility criteria On behalf of DAC project proponents through requests for information, phone calls and email exchanges with DWR staff. In doing do, it was confirmed that any water resource project serving a DAC (i.e., not just projects addressing a critical water supply/quality need) would be eligible for the funding match waiver. This clarification helped expand the list of participating DAC projects considerably.

- Targeted assistance via phone and email to potential DAC projects proponents to ensure the application process was clear, that their projects met DWR's eligibility criteria, and that their project development and submittal processes were progressing successfully. DAC project proponents that received targeted assistance included (see Appendix XXX for a detailed log of targeted DAC outreach and assistance):

  - San Francisquito Creek Joint Powers Authority
  - City of East Palo Alto
  - Committee for Green Foothills
  - City of Pittsburg
  - City of Oakland
  - City of Berkeley
  - City of Calistoga
  - The Watershed Project
  - Alameda County Flood Control Agency
  - Rural Community Assistance Corporation/Town of Pescadero
  - Friends of Sausal Creek

6.3.3 Review Matrix

The PUT focused significant effort in developing a matrix to outline the project scoring methodology Table 6-1). The intent was to develop a methodology that reflected DWR guidelines, limited ambiguity, and was replicable and transparent to participants and stakeholders.

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The scoring methodology reflects the criteria of the DWR's IRWM Guidelines (July 2012 Draft) as well as the Bay Area IRWMP Goals and Objectives. The criteria include:

- Addressing Multiple Goals
- Integrating Multiple Resource Management Strategies
- Strategic Considerations for IRWM Plan implementation (regionalism, partnerships and integration)
- Project Status
- Technical Feasibility
- Benefits to DAC Water Issues
- Benefits to Native American Tribal Community Water Issues
- Environmental Justice Considerations
- Project Costs and Financing
- Economic Feasibility
- Climate Change Adaptation
- Reducing GHG Emissions
- Reducing Dependence on the Delta

Development of the assessment methodology and scoring was an iterative process. First the PUT began with the "review factors" identified in the 2012 DWR Guidelines and used that to finalize the scoring metrics, and assessment methodology, identifying what to score and how to score it. Where appropriate, the IRWM guidelines were also consulted for direction regarding the assessment methodology and weighting of the review factors.

The PUT applied a weighting factor to the review factors indicating most important to least important from the perspective of identifying good projects to include in the Plan. Certain criteria, such as benefits to disadvantaged communities (DAC) water issues and reducing dependence on the Delta, did not receive points, but instead were assigned a Yes/No scoring so they could be identified and sorted by this factor. The scoring methodology was approved by the CC in August 2012.

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In developing a project review process, the CC did not consider any specific grant program-related selection criteria. The purpose of identifying projects in the IRWM Plan is to understand the needed actions to meet the IRWM Plan objectives and therefore not prioritize projects based on any specific grant program. The CC will apply grant criteria when moving projects from the scored list in the IRWMP to a specific grant proposal list.

Table 6-1: Project Scoring Methodology

6.4 Procedures for Review of Projects to Implement the IRWM Plan

6.4.1 IRWMP Project Lists

The projects were grouped into two project lists: a Master List and an Active List. The Master List contains all submitted projects, and the Active List contains projects that are moving forward for evaluation. The rules that govern the lists are as follows:

6.4.1.1 Master List

The IRWMP Master Project List is a non-scored list of projects that includes all projects that have ever been submitted for inclusion in the Plan, including project concepts. The Master List is composed of all projects from the 2006 IRWMP, projects in the appendices to the 2006 IRWMP, projects that were subsequently added to the list by the CC and all projects submitted to the 2013 Plan update. This list is located at: http://bairwmp.org/projects.

Any IRWMP stakeholder may submit a project for inclusion on the Master List by completing the Project Template (Section 6.3.1).

In advance of a review process, the CC sends an email to the list serve and posts to the website asking the project proponents of all projects on the Master List to confirm that the project is still active and that they want their project ranked. If the project proponent fails to confirm their involvement, the project will not move forward to the Active Project List.

Unless a project has been removed by the project proponent, it will remain on the Master List.

Projects may be added to or removed from the Master Project List at any time; however this must be done by the project proponent(s).

- To remove a project, the project proponent must submit a written request for removal to the CC. The request for removal must include: the project title, consent to remove the project from all project lists and the reason for removal of the project.
- In the event of multi-entity projects, all entities must agree to a project's removal.
- It is the project proponent's responsibility to notify, and get consent from, any and all partnering entities of the removal of the project from the IRWMP Master List.

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- In the case of multi-entity projects the "project proponent" refers to the lead entity.

The CC may commence a call for new projects. The confirmed projects and new projects will comprise the IRWMP Active List.

6.4.1.2 Active List

The Active List is a subset of the Master List and includes all projects that will be evaluated in the Project Review Process. (Section 6.4.2)

It is the project proponent's responsibility to:

- Complete the Project Template (as described in Section 6.3.1)
- Ensure that project information is up to date
- Respond to CC requests for information

Project(s) can be removed from the Active List by the CC if the project proponent does not meet its responsibilities. Projects removed from the Active List are maintained in the Master List until removed by the project proponent(s).

Subsequent to the 2013 Project Review Process, updates to the Project lists will be added to the Plan as appendices. The process is described in Section 6.6.

6.4.2 Project Review

Project review occurred in a two phase process:

Phase 1: Subregional Screening for Inclusion in the IRWMP

Projects first went through preliminary review at the subregional level to determine whether they complied with IRWM goals and guidelines. Projects were not considered eligible for further evaluation if:

- They did not meet at least one of the IRWM goals or objectives,
- They were not located in, or they did not benefit, the IRWM Region, or
- They did not comply with DWR guidelines, particularly technical feasibility

Projects that met the IRWM goals and guidelines were placed on the Active List and continued to Phase 2 for scoring and ranking.

Projects physically located in more than one subregion were reviewed in the subregion in which a majority of the project was located. Projects physically located in two or more subregions

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could also be deemed "Regional" by the Project Screening Committee (PSC) and approved by the CC as such. Regional projects were also reviewed by the PSC for compliance with the three criteria outlined above.

Phase 2: Project Ranking

Projects on the Active List were reviewed, scored and ranked by the consulting team, using the project scoring methodology as a guide. Scores were based on information provided, not an evaluation of the information. The team first scored the regional projects in order to test the scoring process and identify any issues related to the methodology. The PSC reviewed the regional results, supported and contributed to the scoring and ranking process as needed, and was responsible for arbitrating any discussion and/or disagreement in the review process.

Note that PSC members who also represent project proponents or who are otherwise working to advance a project or projects (including a project that is included in a group project) on behalf of a project proponent were expected to recuse themselves from participating in the ranking of any such project, projects or group of projects. They are, however, able to clarify project information and respond to questions raised during Committee meetings or when otherwise authorized by the Committee chair.

Based on the resulting scores, projects were assigned into one of three tiers:

Tier 1: Fifty top-scoring projects

Tier 2: Projects not included on the Tier 1 List that receive more than 50 percent of the points available on the Review Matrix

Tier 3: All other scored projects

6.5 Results

The Master List includes 690 projects, 332 of which were submitted (or re-submitted) in the 2012 call for projects and went through the two-phase project review process. The Master List includes the following subcategories for projects submitted during the 2012 call for projects:

Number of projects on the Active List: 315

Number of regional projects: 30

Number of projects indicating benefits to DAC: 123

Number of projects that did not pass subregion review: 17

Of the 332 projects submitted, the subregion screening process identified 17 projects that were deemed ineligible because they did not meet the minimum criteria. Project proponents were provided a notice that the project did not advance to the ranking phase and were given an opportunity to address the CC at its monthly meeting. These projects remain on the Master List.

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The remaining 315 projects that were included in the Active List continued to Phase 2 for scoring and ranking based on the methodology described in Section 6.3.3. The results of the project scoring are shown in Table 6-2.

6.5.1 Procedure for Communicating the List of Selected Projects

Once the Active List projects were ranked, draft scores were posted on the Bay Area IRWM website. The PSC also contacted project proponents by email to announce the draft scores, the criteria used to score each project, and the Project Review Process guidance. Proponents were informed that the scored list would be published in the 2013 Plan and the project information would be used to update the Plan and describe the efforts to develop regional, integrated, and multi-benefit solutions for our water resources.

Project proponents were then given an opportunity to address errors identified in the project review process. Examples of errors the PSC would consider correcting included errors made by the scoring team or errors due to technical issues from the website and project information not being properly captured. Project proponents were requested to provide an explanation of the error and a proposed solution. Proponents were given two weeks to provide this information, which was submitted electronically. The PSC re-scored 17 projects.

6.6 Adaptive Management Process

The water management issues facing the Bay Area will change over time as regulations become more stringent, environmental conditions change, and new regional interests and goals emerge. As these issues evolve over time, the type of projects considered as regional priorities for implementation will change. Further, as projects are implemented and additional studies are completed, their readiness-to-proceed will change.

Recognizing that goals, objectives, and regional priorities evolve over time, the CC will review the Plan periodically, depending on changing conditions and availability of funds as future work is performed, and make adjustments as necessary to respond to changes throughout the region. This review will be informed by assessments performed by project proponents at the project level and by the Functional Area TCCs (refer to Section I: Technical Analysis and Plan Performance). Information collected through this review process will be used to inform decisions regarding IRWMP project sequencing, as well as updates to the regional goals, objectives, and priorities. This process of continual review and update will optimize the effectiveness of IRWMP implementation.

The IRWMP Project Review Process will generally take place on a schedule that anticipates an IRWMP update, a Proposal Solicitation Package, or as determined necessary by the CC. Subsequent to the completion of the Project Review Process in the 2013 IRWMP Update, projects to be added to the IRWMP will be reviewed and ranked by the PSC, subject to the approval of the CC, and a new list of Plan Projects generated. To the extent allowable under State IRWM guidelines and criteria, a new project submitted after adoption of the Plan will be considered by the appropriate functional area(s) to evaluate whether that project should be forwarded to the IRWMP CC as a high priority project to consider when the next available

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funding proposal is developed. The schedule and process for each functional area may vary. Updates to the Project lists will be added to the Plan as appendices.

Table 6-2: Project Scoring Results

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Yellow Shading = Directly From Prop 84 Guidelines REVIEW FACTORS					
Scoring Criteria	**Scoring Objective**	**Scoring Metric(s)**	**Assessment Methodology & Scoring**	**Max Score**	**weighting**
Addresses Multiple Goals	How the project contributes to the IRWM Plan Objectives	Number of goals and objectives the project addresses	Total of 200 points allocated among the 5 goals; 10 points per objective until 40 points maximum per goal (for Flood goal, 40 points if all objectives addressed)	200	27%
Integrates Multiple Resource Management Strategies	How the project is related to resource management strategies	Address multiple RMS (CWP Management Outcomes)	20 points per each of the six CWP Management Outcomes met	120	16%
Strategic Considerations for IRWM Plan implementation		Regionalism: How much of the Bay Area Region does this project benefit?	50 points: project provides direct benefits to 1) 2 or more of the Bay Area Sub-Regions; or 2) at least three counties (portions within Region); or 2) six or more of the 20 Bay Area watershed areas as illustrated in Figure B-6 and listed in Table B-1 from 2006 IRWMP.	50	7%
			25 points: provides direct benefits to 1) at least two counties (portions with Region); or 2) at least three of the 20 Bay Area watershed areas as illustrated in Figure B-6 and listed in Table B-1 from 2006 IRWMP.		
			15 points: project provides direct benefits to one of the 20 Bay Area watershed areas as illustrated in Figure B-6 and listed in Table B-1 from 2006 IRWMP, AND at least one county (portions within Region).		
			5 points: project provides direct benefits to more than one watershed of smaller scale than the 20 Bay Area watershed areas as illustrated in Figure B-6 and listed in Table B-1 from 2006 IRWMP.		
		Partnership: How many entities are partnering to implement this project?	30 points if project involves three or more partners that include both government agencies and NGOs 20 points if project involves three or more partners. 10 points if project involves two partners. 0 points if Project involves only one entity.	30	4%
		Integration with land use planning -	20 points: Project increases coordination between water resources agencies and land use planning agencies	20	3%
Project Status	Considers the project's readiness to proceed	What is the current status of the project (with respect to the criteria listed in the scoring)?	2 points for each criterion met:	10	1%
			Construction Drawings		
			Land acquisition/easements complete		
			CEQA/NEPA complete		
			Preliminary Design complete		
			Conceptual Plans complete		
Technical Feasibility	Technical feasibility of the project. Accesses the availability and quality of technical information in supporting project plan and results	Is this a common and widely accepted technology with well documented results? Is there enough known about the geologic conditions, hydrology, ecology or other aspect of the system where the project is located	75 points: Technical feasibility has been well documented and based on similar, successful studies and/or projects or established literature; the project is using a technology or processes that meet industry standards; the project includes pilot study results and/or an agency's own operational results to estimate benefits; project site conditions are known (soils, hydrology, ecology)	75	10%
			35 points: the project has not been done before but the project proponents provide adequate documentation related to the feasibility of the proposed process and project site conditions are known (soils, hydrology, ecology)		
			0 points: the project has not been done before, does not use industry standard processes, and/ or the project's projected benefits exceed those of similar studies with no supporting documentation provided.		
Benefits to DAC Water Issues	Considers if project provides specific benefits to critical water issues for disadvantaged communities and/or increases DAC participation.	Does the proposed project provide specific benefits to critical DAC water issues	Yes/No	Yes/No	Yes/No
Benefits to Native American Tribal Community Water Issues	Considers if project provides specific benefits to critical water issues for Native American tribal communities and/or increases tribal participation.	Does the proposed project provide specific benefits to critical Native American tribal community water issues?	Yes: 15points	15	2%
Environmental Justice Considerations	Considers if project addresses inequitable distribution of environmental burdens.	Does the proposed project redress inequitable distribution of environmental burdens and/or improve access to environmental goods?	Yes: 15points	15	2%
Project Costs and Financing	Identifies if project costs and financing have been assessed.	Has a project cost estimate been prepared and documented in Section 3 of the Project Template?	Yes: 25 points	25	3%
		Does project have identified sources at least 25% match funding?	Yes: 25 points	25	3%
Economic Feasibility	Benefits, monetized or non-monetized can be estimated (consistent with DWR Guidelines.)	Does the response to Section 3, Table A indicate proponent would be able to provide necessary data for an economic analysis, for a potential grant application?	50 points if primarily "yes"	50	7%
Climate Change Adaptation	Contribution of the project in adapting to the effects of climate change.	Will the project contribute to regional adaptation to projected climate change impacts?	5 points per strategy, up to 50 points	50	7%
Reducing GHG Emissions	Considers a project's ability to reduce regional GHG emissions, as compared to project alternatives. Considerations include energy efficiency and reduction of GHG emissions when choosing between project alternatives.	Compared to project alternatives, does the project reduce regional GHG emissions OR improve energy efficiency?	5 points per strategy, up to 50 points	50	7%
	Reducing dependence on the Delta		Yes/No	Yes/No	Yes/No
			Total	**735**	**100%**

Yes/No question
High point value
Medium point value

Project Name	Goals/Integration/Coordination						Technical	Social Considerations			Financial Considerations			Environmental Considerations			Total Score	Rank	Tiers	Subregion	Sponsoring Agency
	Addresses Multiple Goals	Integrates Multiple Resource Management Strategies	Strategic Considerations for IRWM Plan implementation			Project Status	Technical Feasibility	Benefits to DAC Water Issues	Benefits to Tribal Community Water Issues	Environmental Justice Considerations	Project Costs & Financing		Economic Feasibility	Climate Change Adaptation	Reducing GHG Emissions	Reducing Dependence on the Delta					
			Regionalism	Partnership	Integration with Land Use Planning						Cost Estimate	Financing									
Max Score	*200*	*120*	*50*	*30*	*20*	*10*	*75*	*Yes/No*	*15*	*15*	*25*	*25*	*50*	*50*	*50*	*Yes/No*	*735*				
North Bay Water Reuse Program	180	120	50	20	20	8	75	No	0	0	0	25	50	50	20	No	618	1	Tier 1	North	North Bay Water Reuse Authority
Building Climate Change Resiliency Along the Bay with Green Infrastructure & Treated Wastewater	180	80	50	30	20	4	75	Yes	0	0	25	25	50	45	20	No	604	2	Tier 1	East North South	San Francisco Estuary Partnership
Resilient Landscapes Climate Adaptation Strategy: Tools for Designing Sustainable Bay Area Stream, Wetland, and Riparian Habitats	190	80	50	30	20	0	75	Yes	15	15	0	25	50	50	0	Yes	600	3	Tier 1	East North South West	San Francisco Estuary Institute - Aquatic Science Center
Sonoma Valley Integrated Water Management Program	200	100	15	30	20	2	75	Yes	0	0	0	25	50	50	15	No	582	4	Tier 1	North	Sonoma County Water Agency
Bay-Friendly Landscape Standards for Green Infrastructure Projects: Maximizing Watershed Benefits	200	100	50	20	20	10	75	Yes	0	0	0	25	0	50	30	Yes	580	5	Tier 1	East North South West	Bay-Friendly Landscaping & Gardening Coalition
Satellite Recycled Water Treatment Plant Project	140	120	25	20	20	0	75	Yes	0	0	25	25	50	50	25	Yes	575	6	Tier 1	East	East Bay Municipal Utility District (EBMUD)
Napa River Restoration, Bioassessment & Education Project	180	120	50	30	20	2	75	Yes	0	0	0	25	0	50	20	Yes	572	7	Tier 1	North	Napa County Resource Conservation District
Bay-Friendly Outreach Campaign for Home Gardeners and Nurseries	200	120	50	10	0	10	75	Yes	0	0	0	25	0	50	25	Yes	565	8	Tier 1	East North South West	Bay-Friendly Landscaping & Gardening Coalition
Bay-Friendly Qualified Landscape Professionals Training	200	120	50	10	0	10	75	No	0	0	0	0	0	50	30	Yes	545	9	Tier 1	East North South West	Bay-Friendly Landscaping & Gardening Coalition
City Watersheds of Sonoma Valley	200	80	5	30	20	0	75	No	0	0	0	25	50	50	10	No	545	9	Tier 1	North	Sonoma County Water Agency
East Bayshore Recycled Water Project Phase 1A	140	120	0	20	0	8	75	yes	0	0	25	25	50	50	25	Yes	538	11	Tier 1	East	East Bay Municipal Utility District
East Bayshore Recycled Water Project Phase 1B - Oakland-Alameda Estuary Crossing	140	120	0	20	0	8	75	yes	0	0	25	25	50	50	25	yes	538	11	Tier 1	East	East Bay Municipal Utility District
East Bayshore Recycled Water Project Phase 1B - Alameda	140	120	0	20	0	6	75	yes	0	0	25	25	50	50	25	yes	536	13	Tier 1	East	East Bay Municipal Utility District
Lake Chabot Raw Water Expansion Project	140	120	5	20	0	0	75	Yes	0	0	25	25	50	50	25	Yes	535	14	Tier 1	East	East Bay Municipal Utility District
Improving Quantitative Precipitation Information for the San Francisco Bay Area	170	100	50	20	0	0	75	Yes	0	0	0	25	50	40	5	Yes	535	14	Tier 1	East North South West	Zone 7 Water Agencies for Bay Area Flood Protection Agencies Association (BAFPAA)
East Bayshore Recycled Water Project Phase 2	140	120	0	20	0	2	75	yes	0	0	25	25	50	50	25	yes	532	16	Tier 1	East	East Bay Municipal Utility District
Richmond Advanced Recycled Expansion (RARE) Water Project Phase 2	140	120	0	20	0	2	75	Yes	0	0	25	25	50	50	25	Yes	532	16	Tier 1	East	East Bay Municipal Utility District
Rodeo Recycled Water Project	140	120	0	20	0	2	75	Yes	0	0	25	25	50	50	25	Yes	532	16	Tier 1	East	East Bay Municipal Utility District
Watershed Information Center & Conservancy of Napa County	150	80	15	30	20	6	75	Yes	0	0	25	25	50	45	10	Yes	531	19	Tier 1	North	County of Napa
Diablo Country Club Satellite Recycled Water Project	140	120	0	20	0	0	75	yes	0	0	25	25	50	50	25	yes	530	20	Tier 1	East	East Bay Municipal Utility District
Richmond Advanced Recycled Expansion (RARE) Water Project - Future Expansion	140	120	0	20	0	0	75	Yes	0	0	25	25	50	50	25	Yes	530	20	Tier 1	East	East Bay Municipal Utility District
San Leandro Water Reclamation Facility Expansion Project	140	120	0	20	0	0	75	Yes	0	0	25	25	50	50	25	Yes	530	20	Tier 1	East	East Bay Municipal Utility District
San Ramon Valley Recycled Water Program - Phase 5-6 (DSRSD-EBMUD Recycled Water Authority)	140	120	0	20	0	0	75	No	0	0	25	25	50	50	25	Yes	530	20	Tier 1	East	Dublin San Ramon Sanitary District - EBMUD Recycled Water Authority
Bay Area Green Infrastructure Initiative: Scientific support related to planning and implementation of water infrastructure upgrades toward green alternatives	160	80	50	0	20	0	75	Yes	0	0	0	25	50	50	20	Yes	530	20	Tier 1	East North South West	San Francisco Estuary Institute
Implementing "Slow It, Spread It, Sink It!" in Sonoma and Napa Counties	150	100	25	30	20	0	75	Yes	0	0	0	25	50	35	20	No	530	20	Tier 1	North	Southern Sonoma Resource Conservation District
Implementing LandSmart Plans to Improve Water Quality	150	80	25	20	20	0	75	Yes	0	0	25	25	50	40	20	No	530	20	Tier 1	North	Napa County Resource Conservation District
Petaluma Flood Impact Reduction, Water & Habitat Quality, Recreation, Phase IV	200	60	15	30	20	0	75	No	0	0	0	25	50	45	10	No	530	20	Tier 1	North	City of Petaluma, Southern Sonoma County Resource Conservation District
San Ramon Valley Recycled Water Program - Phase 2A (DSRSD-EBMUD Recycled Water Authority)	130	120	0	20	0	8	75	Yes	0	0	25	25	50	50	25	Yes	528	28	Tier 1	East	Dublin San Ramon Sanitary District - EBMUD Recycled Water Authority
San Ramon Valley Recycled Water Program - Phase 3 - 4 (DSRSD-EBMUD Recycled Water Authority)	130	120	0	20	0	6	75	Yes	0	0	25	25	50	50	25	Yes	526	29	Tier 1	East	Dublin San Ramon Sanitary District - EBMUD Recycled Water Authority
SFPUC Eastside Watershed Green Infrastructure Early Implementation Projects	170	100	5	0	20	0	75	Yes	0	0	0	25	50	45	30	No	520	30	Tier 1	West	San Francisco Public Utilities Commission (SFPUC)
SFPUC Westside Watershed Green Infrastructure Early Implementation Projects	170	100	5	0	20	0	75	Yes	0	0	0	25	50	45	30	No	520	30	Tier 1	West	San Francisco Public Utilities Commission
Reliez Valley Recycled Water Project	130	120	0	10	0	0	75	Yes	0	0	25	25	50	50	25	Yes	510	32	Tier 1	East	East Bay Municipal Utility District
Collaborative Aquatic Resource Protection in the Watershed Context: Science and Technology to Visualize Alternative Landscape Futures	200	80	15	0	0	0	75	yes	0	0	0	25	50	50	15	Yes	510	32	Tier 1	North	San Francisco Estuary Institute
The Students and Teachers Restoring A Watershed (STRAW) Project	160	40	50	30	0	6	75	Yes	0	15	0	25	50	50	5	No	506	34	Tier 1	East North West	PRBO Conservation Science
School District Green Infrastructure Capacity Building/Pilot Projects	140	100	50	30	20	0	75	Yes	0	15	0	25	0	35	15	Yes	505	35	Tier 1	East West	San Francisco Estuary Partnership
350 Home and Garden Challenge Bay Area	150	100	50	30	0	0	75	Yes	0	0	0	25	0	45	25	Yes	500	36	Tier 1	East North South West	Daily Acts
Implementation of High Priority Projects Identified in the Pilarcitos Creek Integrated Watershed Management Plan	160	80	5	20	20	6	75	No	0	0	0	25	50	45	5	No	491	37	Tier 1	West	San Mateo County Resource Conservation District (RCD)
Regional Green Infrastructure Capacity Building Program	140	40	50	30	20	0	75	Yes	0	0	25	25	50	20	10	Yes	485	38	Tier 1	East North South West	San Francisco Estuary Partnership
Contra Costa County LID School Program	170	80	15	10	0	0	75	yes	0	0	25	25	0	45	25	No	470	39	Tier 1	East	The Watershed Project
Refugio Creek and North Channel Restoration	180	60	0	10	20	8	75	Yes	0	0	20	25	50	20	0	No	468	40	Tier 1	East	City of Hercules
Stinson Beach flood protection and habitat enhancement project	180	60	0	20	20	8	75	No	0	0	0	25	50	25	5	No	468	40	Tier 1	North	Marin County Department of Public Works
Implementing TMDLs in the Napa River, Sonoma and Suisun Creek watersheds with the Fish Friendly Farming/Fish Friendly Ranching programs	160	60	50	30	20	2	75	Yes	0	0	0	25	0	35	10	No	467	42	Tier 1	North	California Land Stewardship Institute
Water Supply and Instream Habitat Improvements in Suisun Creek	140	60	15	30	0	2	75	Yes	0	0	25	25	50	35	10	Yes	467	42	Tier 1	North	Ca. Land Stewardship Institute
Napa River Restoration: Oakville to Oak Knoll Reach	120	60	15	30	20	4	75	Yes	0	0	25	25	50	35	5	No	464	44	Tier 1	North	Napa County
Decoto District Green Streets Phase 3	160	80	15	0	0	2	75	yes	0	0	0	25	50	40	15	yes	462	45	Tier 1	East	City of Union City
Contra Costa County Low Impact Development Rebate Program	170	80	15	10	20	0	75	yes	0	0	25	25	0	40	0	No	460	46	Tier 1	East	The Watershed Project

Bay Area Regional Water Conservation and Education Program	150	80	50	20	0	10	75	Yes	0	0	0	25	0	40	10	Yes	460	46	Tier 1	East North South West	Zone 7 Water Agency, SFPUC and Contra Costa Water District
Ash Creek Stormwater Management and Wildlife Enhancement Project	140	80	0	30	20	0	75	Yes	0	0	0	25	50	30	5	No	455	48	Tier 1	North	Southern Sonoma County Resource Conservation District
Rindler Creek: Habitat Restoration and Erosion Control	170	40	15	30	20	2	75	Yes	0	0	0	25	50	20	5	No	452	49	Tier 1	North	Solano Resource Conservation District
Lagunitas Creek Watershed Sediment Reduction and Management Project	150	40	15	20	20	4	75	No	0	0	25	25	50	25	0	No	449	50	Tier 1	North	Marin Municipal Water District
Berryessa Creek Flood Protection Project	180	40	15	0	0	0	75	No	0	0	25	25	50	35	0	No	445	51	Tier 2	South	Santa Clara Valley Water District
Richardson Bay Erosional Shoreline Adaptation to Sea Level Rise: Draft Conceptual Designs and Opportunity/Constraints Assessment	170	80	5	20	0	2	75	No	0	0	0	0	50	40	0	No	442	52	Tier 2	North	Marin County Flood Control and Water Conservation District
Conserving Our Watersheds	160	80	25	30	0	0	75	No	0	0	0	25	0	40	5	No	440	53	Tier 2	North	Marin Resource Conservation District
Water Conservation and Mobile Water Lab Program	150	60	25	20	0	0	75	Yes	0	0	0	25	50	25	10	No	440	53	Tier 2	North	Southern Sonoma Resource Conservation District
Hayward Marsh Restoration and Enhancement Project	160	80	0	0	0	2	75	No	0	0	0	25	50	35	10	No	437	55	Tier 2	East	East Bay Regional Park District
McInnis Marsh Habitat Restoration Project	180	100	5	20	0	2	75	No	0	0	0	0	0	50	5	Yes	437	55	Tier 2	North	Marin County Parks
Sonoma Valley Groundwater Banking Program	120	100	0	20	0	2	75	No	0	0	0	25	50	40	5	No	437	55	Tier 2	North	Sonoma County Water Agency
San Geronimo Landowner Assistance Program- Habitat Restoration Projects	160	60	5	10	20	0	75	No	0	0	0	0	50	50	5	No	435	58	Tier 2	North	Marin County Department of Public Works/SG Planning Group
LID and Stormwater Management - Lagunitas Watershed	150	60	15	10	20	2	75	No	0	0	25	0	50	25	0	No	432	59	Tier 2	North	The Watershed Project
Napa River Rutherford Reach Restoration Project	150	60	15	30	20	8	75	No	0	0	0	25	0	40	5	No	428	60	Tier 2	North	Napa County
Water Treatment Plant Improvement Project	150	120	0	0	0	2	75	Yes	0	0	0	25	0	40	15	Yes	427	61	Tier 2	East	City of Pittsburg
Corte Madera Creek Watershed Sediment Control and Drinking Water Reliability Project	140	60	15	10	0	6	75	No	0	0	25	25	50	20	0	No	426	62	Tier 2	North	Marin Municipal Water District
DDSD Recycled Water Distribution System Expansion	120	100	0	10	0	0	75	Yes	0	0	0	25	50	30	15	yes	425	63	Tier 2	East	Delta Diablo Sanitation District
San Francisco Bay Livestock and Land Program	110	40	50	30	0	0	75	No	0	0	25	25	50	15	5	No	425	63	Tier 2	East North South West	Ecology Action
The Bay Area Creek Mouth Assessment Tool	120	60	50	10	0	0	75	No	0	0	0	25	50	30	5	No	425	63	Tier 2	East North South West	San Francisco Estuary Partnership
Corte Madera Bayfront Flood Protection and Wetlands Restoration Project	180	40	5	30	20	0	75	yes	0	15	0	25	0	30	5	No	425	63	Tier 2	North	Marin Audubon Society/Marin Bayland Advocates
Miller Avenue Green Street Plan	160	40	0	10	20	6	75	No	0	0	25	25	50	0	10	No	421	67	Tier 2	North	City of Mill Valley
San Francisco Eastside Recycled Water Project	110	100	5	0	0	0	75	No	0	0	0	25	50	40	15	No	420	68	Tier 2	West	San Francisco Public Utilities Commission
San Francisco Westside Recycled Water Project	110	100	5	0	0	0	75	No	0	0	0	25	50	40	15	No	420	68	Tier 2	West	San Francisco Public Utilities Commission
Rheem Creek Conservation Project (Shortcut Pipeline Improvement Project)	130	60	0	20	0	2	75	Yes	0	0	25	25	50	30	0	No	417	70	Tier 2	East	Contra Costa Water District
Milliken Diversion Dam Flow Control	160	80	0	0	0	2	75	No	0	0	0	25	50	20	5	Yes	417	70	Tier 2	North	City of Napa Water Division
San Pablo Bay South Watershed Community Stewardship Program	100	60	15	30	20	0	75	Yes	0	0	25	25	50	10	5	No	415	72	Tier 2	East	The Watershed Project
Cleaning up trash in the Bay Area's stormwater	130	60	50	10	0	0	75	Yes	0	0	0	25	50	15	0	No	415	72	Tier 2	East North South West	Association of Bay Area Governments/SF Estuary Partnership
Albany Beach Restoration and Public Access Project	180	60	0	30	20	4	75	Yes	0	0	0	25	0	20	0	No	414	74	Tier 2	East	East Bay Regional Park District
Roseview Heights Mutual Water Tanks & Main upgrades	120	80	0	0	0	4	75	No	0	0	25	25	50	25	10	Yes	414	74	Tier 2	South	Roseview Heights Mutual Water Company
CCCSD Refinery Recycled Water Project	80	100	0	0	0	0	75	No	0	0	25	25	50	35	20	Yes	410	76	Tier 2	East	Central Contra Costa Sanitary District
Central Dublin RW Distribution and Retrofit Project	110	80	5	10	0	10	75	No	0	0	0	25	50	30	15	yes	410	76	Tier 2	East	Dublin San Ramon Services District
Recycled Water Distribution and Retrofit for County and Federal Facilities	110	80	15	10	0	0	75	No	0	0	0	25	50	30	15	Yes	410	76	Tier 2	East	Dublin San Ramon Services District
San Francisco Bay Tidal Marsh-Upland Transition Zone Decision Support System (DSS)	120	60	50	30	20	0	75	Yes	0	0	0	25	0	25	5	No	410	76	Tier 2	East North South West	San Francisco Bay Bird Observatory
City of Berkeley Watershed Management Plan	190	0	5	30	0	2	75	Yes	0	0	0	25	50	30	0	No	407	80	Tier 2	East	City of Berkeley
Zone 1 Recycled Water- Pleasant Hill Build Out	120	60	15	0	0	6	75	Yes	0	0	0	25	50	35	20	Yes	406	81	Tier 2	East	Contra Costa Sanitary District
Redwood Creek Restoration at Muir Beach, Phase 5	160	40	0	20	20	10	75	No	0	0	0	0	50	30	0	No	405	82	Tier 2	North	Golden Gate National Parks Conservancy
DERWA Pump Station 1 - Phase 2	110	80	5	10	0	2	75	No	0	0	0	25	50	30	15	yes	402	83	Tier 2	East	Dublin San Ramon Services District
Developing a Conservation Reserve Enhancement Program Proposal (CREP) to improve water quality and protect rangeland habitats in the Bay Area	150	80	50	0	20	0	75	Yes	0	0	0	0	0	20	5	No	400	84	Tier 2	East North South West	Defenders of Wildlife
Alhambra Valley Creek Coalition - Erosion Control and Riparian Restoration Project	140	60	0	30	20	2	75	No	0	0	0	0	50	20	0	No	397	85	Tier 2	East	Contra Costa County Public Works Dept.
Wildcat Creek Watershed Erosion and Sediment Control Project	200	60	15	0	0	2	75	Yes	0	0	0	25	0	20	0	No	397	85	Tier 2	East	East Bay Regional Park District
Bay Point Regional Shoreline Wetland Restoration	180	40	0	10	20	10	75	Yes	0	0	0	25	0	35	0	No	395	87	Tier 2	East	East Bay Regional Park District
Western Dublin Recycled Water Distribution Expansion and Retrofit Project	110	80	0	10	0	0	75	No	0	0	0	25	50	30	15	Yes	395	87	Tier 2	East	Dublin San Ramon Services District
Southwestern Solano County Open Space Acquisition and Watershed Assessment	140	40	0	10	20	0	75	Yes	0	0	25	25	50	10	0	No	395	87	Tier 2	North	Solano Land Trust
Corte Madera Creek Headwaters Restoration Plan	120	40	15	30	20	4	75	No	0	0	0	25	50	15	0	No	394	90	Tier 2	North	Marin County Parks
CCCSD-Concord Recycled Water Project	120	100	5	0	0	10	75	Yes	0	0	0	25	0	35	20	Yes	390	91	Tier 2	East	Central Contra Costa Sanitary District
Martinez Adult School Flood Protection & Creek Enhancement	140	60	0	10	20	0	75	Yes	0	0	0	25	50	10	0	No	390	91	Tier 2	East	Martinez Unified School District
Bay Area Regional Desalination Project (BARDP) - Alternative Analysis Report	90	80	50	20	0	0	75	Yes	0	0	0	25	0	30	20	Yes	390	91	Tier 2	East South West	EBMUD, CCWD, Zone 7, SCVWD, SFPUC
Redwood City Recycled Water Project Phase 2 – Central Redwood City	110	80	0	10	0	2	75	Yes	0	0	0	25	50	35	0	Yes	387	94	Tier 2	West	City of Redwood City
Suisun City Flood Management and Habitat Restoration Project	180	80	0	10	20	6	75	No	0	0	0	0	0	15	0	No	386	95	Tier 2	North	City of Suisun City
Upper Napa River Water Quality Improvement and Habitat Enhancement Project	150	40	5	30	20	0	75	Yes	0	0	25	0	0	35	5	No	385	96	Tier 2	North	California Land Stewardship Institute
San Francisco International Airport Industrial Waste Treatment Plant and Reclaimed Water Facility	110	80	0	0	0	0	75	No	0	0	0	25	50	30	15	Yes	385	96	Tier 2	West	City and County of San Francisco, Airport Commission
Bel Marin Keys Phase of the Hamilton Wetlands Restoration	90	40	15	0	20	8	75	Yes	0	0	25	25	50	30	5	No	383	98	Tier 2	North	Coastal Conservancy
Rubber Dam No. 1 Fish Ladder	120	100	15	30	0	0	75	No	0	0	0	0	0	35	5	Yes	380	99	Tier 2	East	Alameda County Water District
Rubber Dam No. 3 Fish Ladder	120	100	15	30	0	0	75	No	0	0	0	0	0	35	5	Yes	380	99	Tier 2	East	Alameda County Water District
Peacock Gap Recycled Water Extension Project	90	40	0	20	0	4	75	No	0	0	25	25	50	35	15	No	379	101	Tier 2	North	Marin Municipal Water District
Sausal Creek Restoration Project	180	60	0	10	0	8	75	Yes	0	0	0	25	0	15	5	No	378	102	Tier 2	East	City of Oakland
South Bay Salt Pond Restoration Project & South San Francisco Bay Shoreline Study: Early Implementation Activities	110	20	50	20	0	2	75	Yes	0	0	0	25	50	20	5	No	377	103	Tier 2	South	California State Coastal Conservancy
Rush Ranch HQ Storm Water Management, Public Access & Rangeland Improvements	140	40	0	0	0	2	75	No	0	0	25	25	50	15	0	No	372	104	Tier 2	North	Solano Land Trust
Butano Creek Stream Course Restoration	120	40	15	20	0	0	75	Yes	0	0	0	25	50	25	0	No	370	105	Tier 2	West	California State Parks
Bolinas Avenue Stormwater Quality Improvements and Fernhill Creek Restoration	110	60	0	10	20	2	75	No	0	0	25	0	50	15	0	No	367	106	Tier 3	North	Town of Ross
DDSD Advanced Water Treatment	100	80	0	0	0	0	75	Yes	0	0	0	25	50	30	5	yes	365	107	Tier 3	East	Delta Diablo Sanitation District
Total Dissolved Solids Reduction/Salinity Management Project	100	60	0	0	20	0	75	Yes	0	0	0	25	50	25	10	Yes	365	107	Tier 3	East	Delta Diablo Sanitation District

Sears Point Restoration Project	110	60	5	30	0	10	75	No	0	0	0	0	50	25	0	No	365	107	Tier 3	North	Sonoma Land Trust
Wildcat Creek Fish Passage and Habitat Restoration (1135)(#7)	150	40	15	30	0	2	75	Yes	0	0	0	25	0	25	0	No	362	110	Tier 3	East	Contra Costa County Flood Control and Water Conservation District
Napa County Groundwater/Surface Water Monitoring Wells	130	40	15	20	0	2	75	No	0	0	0	0	50	30	0	No	362	110	Tier 3	North	Napa County
Spring Branch Creek Tidal Marsh & Seasonal Creek Restoration	140	40	0	0	0	2	75	No	0	0	25	0	50	30	0	No	362	110	Tier 3	North	Solano Land Trust
Bay Area Water Supply and Conservation Agency (BAWSCA) – East Bay Municipal Utility District (EBMUD) Short-Term Water Transfer Pilot Project (Pilot Project)	80	40	50	20	0	0	75	Yes	0	0	0	25	50	20	0	No	360	113	Tier 3	East South West	Bay Area Water Supply and Conservation Agency (BAWSCA), East Bay Municipal Utility District (EBMUD)
Wildcat and San Pablo Creeks Restoration and Management Plan	140	60	15	0	0	2	75	Yes	0	0	0	25	0	35	5	No	357	114	Tier 3	East	Contra Costa County Flood Control and Water Conservation District
Mapping Marin County's Flood Control Levees	80	40	15	10	20	2	75	No	0	0	25	25	50	15	0	No	357	114	Tier 3	North	Marin County Flood Control and Water Conservation District
Rossmoor Well Replacement Project	120	100	0	0	0	0	75	Yes	0	0	0	25	0	25	10	Yes	355	116	Tier 3	East	City of Pittsburg
Shinn Pond Fish Screen	110	100	15	20	0	0	75	No	0	0	0	0	0	30	5	Yes	355	116	Tier 3	East	Alameda County Water District
Salvador Creek Intregrated Flood and Watershed Improvements	160	60	0	20	20	0	35	No	0	0	0	25	0	30	5	No	355	116	Tier 3	North	Napa County Flood Control and Water Conservation District
Pacheco Marsh Restoration, Martinez (#111)	140	40	15	30	0	4	75	Yes	0	0	0	25	0	25	0	No	354	119	Tier 3	East	Contra Costa County Flood Control and Water Conservation District / Muir Heritage Land Trust / East Bay Regional Park District
Vista Grande Drainage Basin Improvement Project	110	60	0	10	20	4	75	No	0	0	0	0	50	20	5	No	354	119	Tier 3	West	San Francisco Public Utilities Commission
NMWD Gallagher Well and Pipeline Project	110	60	0	0	0	8	75	Yes	0	0	0	25	50	25	0	No	353	121	Tier 3	North	North Marin Water District
Pescadero Water Supply and Sustainability Project	60	60	5	10	20	2	75	Yes	0	0	25	25	50	15	5	No	352	122	Tier 3	West	County of San Mateo Department of Public Works and Parks
Mission Creek Flood Protection and Restoration Project	120	40	5	10	0	6	75	No	0	0	0	25	50	15	5	No	351	123	Tier 3	East	Alameda County Flood Control & Water Conservation District
Bay Area Water Supply and Conservation Agency (BAWSCA) Brackish Groundwater Field Investigation Project (Brackish Groundwater Project)	90	20	50	20	0	0	75	Yes	0	0	0	25	50	20	0	No	350	124	Tier 3	East South West	BAWSCA (Bay Area Water Supply & Conservation Agency)
Parks Floodplain Dedication and Levee Construction (R3-3)	150	60	15	0	20	4	75	No	0	0	0	0	0	25	0	No	349	125	Tier 3	East	Zone 7 Water Agency
Holmes Street Sedimentation Basin and Granada/Murrieta Protection and Enhancement Project (R3-4)	180	60	0	0	0	2	75	No	0	0	0	0	0	30	0	No	347	126	Tier 3	East	Zone 7 Water Agency
Robertson Park Enhancement Project and Levee Construction (R3-2)	150	80	0	10	0	2	75	No	0	0	0	0	0	25	0	No	342	127	Tier 3	East	Zone 7 Water Agency
Bayfront Canal Flood Management and Habitat Restoration Project	150	40	0	10	20	2	75	No	0	0	0	25	0	15	5	No	342	127	Tier 3	West	City of Redwood City
Montalvin Manor Stormwater Harvest and Use, Bioretention, and Flood Risk Reduction Project	130	60	0	0	20	0	75	No	0	0	0	0	0	40	15	No	340	129	Tier 3	East	Contra Costa County
Montezuma Creek Rehabilitation and Fish Passage Project	140	40	5	10	0	0	75	No	0	0	0	0	50	20	0	No	340	129	Tier 3	North	Marin County Parks Department
North Marin Water District Marin Country Club Recycled Water Expansion	110	40	15	0	0	0	75	No	0	0	0	25	50	20	5	No	340	129	Tier 3	North	North Marin Water District
Central/Eastshore Pump Station Improvement Project	130	40	0	0	0	4	75	No	0	0	0	25	50	15	0	No	339	132	Tier 3	East	City of Alameda
White Slough Flood Control and Improvement Project	160	60	0	0	0	8	75	Yes	0	0	0	0	0	35	0	No	338	133	Tier 3	North	Vallejo Sanitation and Flood Control District
Pinole Creek Habitat Restoration (1135 Project), Pinole (#12)	150	60	0	20	0	2	75	No	0	0	0	0	0	30	0	No	337	134	Tier 3	East	Contra Costa County Flood Control and Water Conservation District
Bolinas Lagoon Ecosystem Restoration Project	140	40	5	30	20	2	75	No	0	0	0	0	0	20	5	No	337	134	Tier 3	North	Marin County Open Space District
Milliken Creek Flood Reduction, Fish Passage Barrier Removal and Habitat Restoration	130	40	0	20	20	2	75	No	0	0	0	25	0	25	0	No	337	134	Tier 3	North	Napa County
Canal Liner Rehabilitation and Slope Stability at Milepost 23.03	90	60	0	10	0	6	75	Yes	0	0	0	25	50	20	0	Yes	336	137	Tier 3	East	Contra Costa Water District
DDSD Advanced Wastewater Treatment	80	80	0	0	0	0	75	yes	0	0	0	25	50	20	5	Yes	335	138	Tier 3	East	Delta Diablo Sanitation District
Niles Cone Groundwater Basin Monitoring Well Construction Project	100	60	15	20	0	0	75	No	0	0	0	25	0	30	5	Yes	330	139	Tier 3	East	Alameda County Water District
Regional Groundwater Storage and Recovery Project	90	20	15	20	0	4	75	No	0	0	0	25	50	20	10	Yes	329	140	Tier 3	West	SFPUC, Cities of Daly City and San Bruno and California Water Service Con
Lynch Canyon Watershed Improvements	130	60	5	0	0	8	75	Yes	0	0	0	25	0	20	5	No	328	141	Tier 3	North	Solano Land Trust
Arroyo las Positas Diversion Project (R5-3)	120	40	0	10	20	2	75	No	0	0	0	25	0	30	5	No	327	142	Tier 3	East	Zone 7 Water Agency
City of Hayward Recycled Water Project	130	40	0	10	0	2	75	No	0	0	0	25	0	30	15	No	327	142	Tier 3	East	City of Hayward
Contra Costa County Green Street Retrofit Network	130	60	25	0	0	0	75	Yes	0	0	0	25	0	10	0	No	325	144	Tier 3	East	Contra Costa County
Lagunitas Booster Station	80	40	0	10	0	2	75	No	0	0	25	25	50	15	0	No	322	145	Tier 3	North	Marin Municipal Water District
Lagunitas Creek Winter Habitat Enhancement Implementation	80	20	15	20	0	2	75	No	0	0	25	25	50	10	0	No	322	145	Tier 3	North	Marin Municipal Water District
Palo Alto Recycled Water Project	80	40	50	20	0	2	75	Yes	0	0	0	25	0	25	5	Yes	322	145	Tier 3	South West	City of Palo Alto
Alameda Creek Flood Protection, Fish Passage and Habitat Enhancement Project	80	40	0	30	0	0	75	No	0	0	0	25	50	20	0	No	320	148	Tier 3	East	Alameda County Flood Control & Water Conservation District
Upper Alameda Creek Filter Gallery Project	90	40	15	0	0	4	75	No	0	0	0	25	50	20	0	No	319	149	Tier 3	East	SFPUC
Fish Passage Improvements at Memorial County Park, San Mateo County	80	20	15	20	0	8	75	No	0	0	0	25	50	25	0	No	318	150	Tier 3	West	San Mateo County Resource Conservation District
DERWA Recycled Water Plant - Phase 2	70	40	5	10	0	2	75	No	0	0	0	25	50	25	15	yes	317	151	Tier 3	East	Dublin San Ramon Services District
Removing Fish Passage Barriers in the Napa River Watershed	100	20	15	20	20	2	75	No	0	0	0	0	50	15	0	No	317	151	Tier 3	North	Napa County Resource Conservation District
East Palo Alto Groundwater Supply Conjunctive Use Project	70	20	25	20	0	2	75	Yes	0	15	25	0	50	15	0	No	317	151	Tier 3	South West	City of East Palo Alto
Corte Madera Creek Watershed - Memorial Park Detention Basin, San Anselmo	180	20	0	0	0	0	75	No	0	0	0	25	0	15	0	No	315	154	Tier 3	North	Marin County Flood Control and Water Conservation District
Cesar Chavez Street Flood and Stormwater Managment Sewer Improvement Project	90	60	0	0	0	0	75	yes	0	0	0	25	50	10	5	No	315	154	Tier 3	West	San Francisco Public Utilities Commission
Water Dog Lake Sediment Removal	110	40	0	0	0	0	75	No	0	0	0	25	50	15	0	No	315	154	Tier 3	West	City of Belmont
ACPWA Low Impact Development Implementation and Demonstration Project: Parking Lot Stormwater Treatment Improvements	100	40	0	10	0	2	75	No	0	0	0	25	50	5	5	No	312	157	Tier 3	East	Alameda County Public Works Agency
Hillman Area Improvements Project	110	40	0	0	0	2	75	No	0	0	0	25	50	10	0	No	312	157	Tier 3	West	City of Belmont
Breuner Marsh Restoration, Richmond	130	40	0	0	0	6	75	Yes	0	0	0	25	0	30	5	Yes	311	159	Tier 3	East	East Bay Regional Park District
Pinole Creek Fish Passage Improvements project at I-80 Culverts	80	20	0	30	0	6	75	No	0	0	0	25	50	20	5	No	311	159	Tier 3	East	Contra Costa RCD
Upland Transition Zone Mapping for Southern San Pablo Bay (West):	100	40	5	30	20	0	75	No	0	0	25	0	0	15	0	No	310	161	Tier 3	North	Gallinas Watershed Council/Marin County DPW/marin County Parks and Op
San José Green Alleys Demonstration Project	80	40	0	30	20	8	75	Yes	0	15	0	25	0	15	0	No	308	162	Tier 3	South	City of San Jose
Daly City Expansion Recycled Water Project	70	60	25	10	0	2	75	No	0	0	0	25	0	30	10	No	307	163	Tier 3	West	SFPUC, City of Daly City
Ardenwood Creek Flood Protection and Restoration Project	90	40	0	0	0	0	75	No	0	0	0	25	50	20	5	No	305	164	Tier 3	East	Alameda County Flood Control & Water Conservation District
San Leandro Creek Hazard Tree Management and Riparian Habitat Restoration	120	60	0	0	0	0	75	Yes	0	0	0	25	0	15	5	No	300	165	Tier 3	East	ACFCWCD

Bay Area Regional Reliability Interties - EBMUD/CCWD	90	40	50	20	0	0	75	Yes	0	0	0	0	0	20	5	Yes	300	165	Tier 3	East South West	EBMUD / Zone 7 / CCWD / SCVWD / SFPUC
Corte Madera Creek Watershed - San Anselmo Creek Improvements	170	20	0	0	0	0	75	No	0	0	0	25	0	10	0	No	300	165	Tier 3	North	Marin County Flood Control and Water Conservation District
Corte Madera Creek Watershed: Saunders Fish Barrier Removal	100	60	15	30	0	2	75	No	0	0	0	0	0	15	0	No	297	168	Tier 3	North	Town of San Anselmo, Friends of Corte Madera Creek Watershed, Ross Val
Laguna Creek Flood Protection and Restoration Project	80	40	0	0	0	0	75	No	0	0	0	25	50	20	5	No	295	169	Tier 3	East	Alameda County Flood Control & Water Conservation District
Martinez Water Quality and Supply Reliability Improvement Project	60	60	0	0	0	0	75	Yes	0	0	0	25	50	20	5	No	295	169	Tier 3	East	City of Martinez / Contra Costa Water District
City of San Jose Citywide Storm Drain Master Plan	90	60	5	10	0	0	75	yes	0	0	0	25	0	30	0	No	295	169	Tier 3	South	City of San Jose
Study of Mercury methylation in South San Francisco Bay in Relation to Nutrient Sources	100	40	15	30	0	0	75	No	0	0	0	25	0	10	0	No	295	169	Tier 3	South	San Francisco Estuary Institute
EBMUD - Pretreatment Facilities	60	40	0	0	0	4	75	No	0	0	25	25	50	15	0	No	294	173	Tier 3	East	EBMUD
EBMUD/ZONE 7 Regional Reliability Intertie	90	40	50	10	0	2	75	No	0	0	0	25	0	0	0	Yes	292	174	Tier 3	East South West	EBMUD / Zone 7 / CCWD / SCVWD / SFPUC
Soulajule Mercury Remediation	70	20	0	10	0	2	75	No	0	0	25	25	50	15	0	No	292	174	Tier 3	North	Marin Municipal Water District
Tomales Bay Watershed Water Quality Monitoring and Improvement Program	110	40	5	10	20	2	75	Yes	0	0	25	0	0	5	0	No	292	174	Tier 3	North	Tomales Bay Watershed Council Foundation
San Francisco Groundwater Supply Project	80	40	0	0	0	4	75	No	0	0	0	25	50	15	0	No	289	177	Tier 3	West	San Francisco Public Utilities Commission
San Gregorio Creek Tributary Water Quality and Flow Monitoring	100	60	15	10	0	4	75	No	0	0	0	0	0	25	0	No	289	177	Tier 3	West	San Gregorio Environmental Resource Center
Walnut Creek Levee Rehabilitation at Buchanan Field Airport, Concord (#119)	120	40	0	20	0	2	75	Yes	0	0	0	25	0	5	0	No	287	179	Tier 3	East	Contra Costa County Flood Control and Water Conservation District
Altamont and Las Positas Creeks/Springtown Alkali Sink Restoration	70	20	5	30	20	0	75	No	0	0	0	0	50	15	0	No	285	180	Tier 3	East	Natural Resources Conservation Service, Alameda County
Corte Madera Creek Watershed - Broadmoor Avenue Bridge Replacement and Creek Bank Restorations	160	20	0	0	0	0	75	No	0	0	0	25	0	5	0	No	285	180	Tier 3	North	Marin County Flood Control and Water Conservation District
Regional Sea Level Rise Adaptation Strategy	20	40	50	30	20	2	75	Yes	0	0	0	25	0	15	5	No	282	182	Tier 3	East North South West	Bay Area Joint Policy Committee
Almaden Dam Improvements	80	60	15	0	0	2	75	No	0	0	0	25	0	20	5	Yes	282	182	Tier 3	South	Santa Clara Valley Water District
San José Green Streets Demonstration Project	80	20	15	30	20	6	75	Yes	0	0	0	25	0	5	5	No	281	184	Tier 3	South	City of San Jose
Lower Walnut Creek Restoration Project, Martinez (#110)	130	0	0	20	0	0	75	Yes	0	0	0	25	0	30	0	No	280	185	Tier 3	East	Contra Costa County Flood Control and Water Conservation District
Airway Improvement Project (R5-2)	120	40	0	0	0	2	75	No	0	0	0	25	0	15	0	No	277	186	Tier 3	East	Zone 7 Water Agency
Implementation of the Napa River Watershed Assessment Framework	60	40	15	10	20	2	75	Yes	0	0	0	25	0	25	5	No	277	186	Tier 3	North	Napa County Resource Conservation District
Tule Ponds Education Center Rehabilitation	90	40	0	30	0	0	75	No	0	0	0	25	0	15	0	No	275	188	Tier 3	East	Alameda County Flood Control & Water Conservation District
Grayson Creek Levee Rehabilitation at CCCSD Treatment Plant, Pacheco (#107)	100	40	0	20	0	0	75	yes	0	0	0	25	0	10	0	No	270	189	Tier 3	East	Contra Costa County Flood Control and Water Conservation District
San Lorenzo Creek Watershed Stewardship Program	100	40	15	30	0	0	75	No	0	0	0	0	0	10	0	No	270	189	Tier 3	East	Alameda Flood Control and Water Conservation District
Corte Madera Creek Watershed - Fairfax Creek Improvements	140	20	0	0	0	0	75	No	0	0	0	25	0	10	0	No	270	189	Tier 3	North	Marin County Flood Control and Water Conservation District
Pine Creek Dam Seismic Assessment, Walnut Creek (#122)	120	20	0	20	0	2	75	No	0	0	0	25	0	5	0	No	267	192	Tier 3	East	Contra Costa County Flood Control and Water Conservation District
Corte Madera Creek Watershed: Sedimentation Management	140	20	0	0	0	2	75	No	0	0	0	25	0	5	0	No	267	192	Tier 3	North	Marin County Flood Control and Water Conservation District
Corte Madera Creek Watershed - Sleepy Hollow Creek Improvements	140	20	0	0	0	0	75	No	0	0	0	25	0	5	0	No	265	194	Tier 3	North	Marin County Flood Control and Water Conservation District
Wildcat Sediment Basin Desilt, North Richmond (#5)	90	40	0	20	0	4	75	Yes	0	0	0	25	0	10	0	No	264	195	Tier 3	East	Contra Costa County Flood Control and Water Conservation District
Arroyo De La Laguna (ADLL) Improvement Project 5 (R10-5)	110	40	0	0	20	2	75	No	0	0	0	0	0	15	0	No	262	196	Tier 3	East	Zone 7 Water Agency
Corte Madera Creek Watershed - Nokomis-Madrone Neighborhood Flood Protection	130	20	0	0	0	0	75	No	0	0	0	25	0	10	0	No	260	197	Tier 3	North	Marin County Flood Control and Water Conservation District
Goat Island Marsh Tidal Marsh Restoration & Interpretive Nature Trail	10	40	0	0	0	4	75	Yes	0	0	25	25	50	30	0	No	259	198	Tier 3	North	Solano Land Trust
Arroyo De La Laguna (ADLL) Improvement Project 4 (R10-4)	130	40	0	0	0	2	75	No	0	0	0	0	0	10	0	No	257	199	Tier 3	East	Zone 7 Water Agency
DA 48C Storm Drain Line at Marina Road, Bay Point (#_)	100	40	0	10	0	2	75	yes	0	0	0	25	0	5	0	No	257	199	Tier 3	East	Contra Costa County Flood Control and Water Conservation District
Lower Arroyo del Valle Restoration and Enhancement Project (R7-3)	110	40	15	0	0	2	75	No	0	0	0	0	0	15	0	No	257	199	Tier 3	East	Zone 7 Water Agency
Walnut Creek Sediment Removal - Clayton Valley Drain to Drop Structure 1 , Concord (#118)	80	40	0	20	0	2	75	Yes	0	0	0	25	0	15	0	No	257	199	Tier 3	East	Contra Costa County Flood Control and Water Conservation District
North Richmond Pump Station - Retrofit and Replumb	90	40	0	10	0	0	75	Yes	0	0	0	25	0	15	0	No	255	203	Tier 3	East	Contra Costa County/City of Richmond
San Leandro Creek Environmental Education Center, Alameda County	70	40	15	10	0	0	75	Yes	0	0	0	25	0	5	15	No	255	203	Tier 3	East	Alameda Count Flood Control and Water Conservation District
Marin County Flood Control Asset Management	50	20	15	0	0	8	75	No	0	0	0	25	50	10	0	No	253	205	Tier 3	North	Marin County Flood Control and Water Conservation District
Arroyo Mocho Bypass and Regional Storage at Chain of Lakes (R6-2)	100	40	0	0	0	2	75	No	0	0	0	25	0	10	0	No	252	206	Tier 3	East	Zone 7 Water Agency
Chelsea Wetlands Restoration Project	90	20	0	30	0	2	75	Yes	0	0	0	25	0	10	0	No	252	206	Tier 3	East	Ducks Unlimited, Inc. and City of Hercules
Upper York Creek Dam Removal -- St. Helena, Napa River Watershed	10	60	15	10	0	6	75	No	0	0	0	25	0	40	10	No	251	208	Tier 3	North	City of St. Helena/U.S. Army Corps of Engineers
Corte Madera Creek Watershed - Loma Alta Tributary Detention Basin	150	0	0	0	0	0	75	No	0	0	0	25	0	0	0	No	250	209	Tier 3	North	Marin County Flood Control and Water Conservation District
San Francisquito Creek Flood Reduction, Ecosystem Restoration and Recreation Project, Highway 101 to El Camino Real	140	0	50	0	0	0	35	Yes	0	0	0	25	0	0	0	No	250	209	Tier 3	South West	San Francisquito Creek Joint Powers Authority
Pine Creek Reservoir Sediment Removal and Capacity Restoration, Walnut Creek (#124)	80	40	0	20	0	2	75	No	0	0	0	25	0	5	0	No	247	211	Tier 3	East	Contra Costa County Flood Control and Water Conservation District
San Lorenzo Creek Tidal Wetlands Restoration	90	20	15	0	0	0	75	Yes	0	0	0	25	0	20	0	No	245	212	Tier 3	East	Alameda County Flood Control and Water Conservation District
Stivers Lagoon Marsh Project	70	60	0	0	0	0	75	Yes	0	0	0	25	0	15	0	No	245	212	Tier 3	East	Alameda County Flood Control and Water Conservation District
Pilarcitos Creek Equestrian Bridge	80	20	0	0	0	0	75	No	0	0	0	0	50	20	0	No	245	212	Tier 3	West	California State Parks
Mercury Reduction Benefits of Low Impact Development	110	20	15	0	20	2	35	Yes	0	0	0	25	0	15	0	No	242	215	Tier 3	East	Contra Costa County
Upper Arroyo de la Laguna (ADLL) Improvement Project (R8-4)	110	40	0	0	0	2	75	No	0	0	0	0	0	15	0	No	242	215	Tier 3	East	Zone 7 Water Agency
Corte Madera Creek Watershed - Lefty Gomez Field Detention Basin	140	0	0	0	0	0	75	No	0	0	0	25	0	0	0	No	240	217	Tier 3	North	Marin County Flood Control and Water Conservation District
Corte Madera Creek Watershed - Merwin Avenue Bridge Replacement and Creek Bank Restorations	130	0	0	0	0	0	75	No	0	0	0	25	0	10	0	No	240	217	Tier 3	North	Marin County Flood Control and Water Conservation District
Marin County Sea Level Rise Land Use Adaptation	10	40	15	30	20	0	75	Yes	0	0	0	25	0	25	0	No	240	217	Tier 3	North	Marin County CDA
Arroyo De La Laguna (ADLL) Improvement Project 2 (R10-2)	110	40	0	0	0	2	75	No	0	0	0	0	0	10	0	No	237	220	Tier 3	East	Zone 7 Water Agency
Lower Arroyo Mocho Improvement Project (R8-3)	90	40	15	0	0	2	75	No	0	0	0	0	0	15	0	No	237	220	Tier 3	East	Zone 7 Water Agency
Grayson and Murderer's Creek Subregional Improvements, Pleasant Hill (#106)	80	20	0	20	0	2	75	Yes	0	0	0	25	0	10	0	No	232	222	Tier 3	East	Contra Costa County Flood Control and Water Conservation District
South Bay Aqueduct Turnout Construction and Low-Flow Crossings (R3-1)	80	60	0	0	0	2	75	No	0	0	0	0	0	15	0	No	232	222	Tier 3	East	Zone 7 Water Agency

Grant Avenue Green Street Water Quality/Flood Protection Demonstration Site	100	40	0	0	0	0	75	No	0	0	0	0	0	15	0	No	230	224	Tier 3	East	Alameda County Flood Control and Water Conservation District
DA 48B Storm Drain Line A at Port Chicago Highway, Bay Point (#201)	70	40	0	10	0	2	75	yes	0	0	0	25	0	5	0	No	227	225	Tier 3	East	Contra Costa County Flood Control and Water Conservation District
Grayson Creek Levee Raising and Rehabilitation, Pacheco (#_)	100	20	0	0	0	2	75	yes	0	0	0	25	0	5	0	No	227	225	Tier 3	East	Contra Costa County Flood Control and Water Conservation District
Arroyo Mocho Management Plan (R6-1)	90	40	0	0	0	2	75	No	0	0	0	0	0	15	0	No	222	227	Tier 3	East	Zone 7 Water Agency
Chabot Canal Improvement Project (R8-2)	100	20	0	0	20	2	75	No	0	0	0	0	0	5	0	No	222	227	Tier 3	East	Zone 7 Water Agency
Grayson Creek Sediment Removal, Pacheco (unincorp.)(#109)	70	20	0	20	0	2	75	yes	0	0	0	25	0	10	0	No	222	227	Tier 3	East	Contra Costa County Flood Control and Water Conservation District
Grimmer Greenbelt Gateway (Line G Channel Enhancement)	70	40	0	0	0	0	75	yes	0	0	0	25	0	5	5	No	220	230	Tier 3	East	Alameda County Flood Control and Water Conservation District
SEDIMENT MANAGEMENT PLAN FOR THE GRAVEL CREEK WATERSHED	80	40	5	0	0	4	75	No	0	0	0	0	0	15	0	No	219	231	Tier 3	North	Vedanta Society of San Francisco
Arroyo De La Laguna (ADLL) Improvement Project 3 (R10-3)	90	40	0	0	0	2	75	No	0	0	0	0	0	10	0	No	217	232	Tier 3	East	Zone 7 Water Agency
Arroyo las Positas Multi-Purpose Project (R1-6)	90	40	0	0	0	2	75	No	0	0	0	0	0	10	0	No	217	232	Tier 3	East	Zone 7 Water Agency
San Lorenzo Creek Watershed Fisheries Restoration Project - Phase 1	70	40	15	0	0	0	75	No	0	0	0	0	0	15	0	No	215	234	Tier 3	East	Alameda County Flood Control and Water Conservation District
Stanley Enhancement and Restoration Project (R3-5a)	80	20	0	0	0	4	75	No	0	0	0	25	0	10	0	No	214	235	Tier 3	East	Zone 7 Water Agency
Wastewater Renewable Energy Enhancement	100	0	0	0	0	4	75	Yes	0	0	0	25	0	5	5	No	214	235	Tier 3	East	Delta Diablo Sanitation District
Line G-1-1 Maintenance Plan (R9-6)	90	40	0	0	0	2	75	No	0	0	0	0	0	5	0	No	212	237	Tier 3	East	Zone 7 Water Agency
Tassajara Creek Improvement Project (R8-1)	110	20	0	0	0	2	75	No	0	0	0	0	0	5	0	No	212	237	Tier 3	East	Zone 7 Water Agency
Recycled Water Facility Renewable Energy System	60	40	0	0	0	0	75	No	0	0	0	25	0	0	10	No	210	239	Tier 3	East	Delta Diablo Sanitation District
East Palo Alto Storm Water Conveyance, Tidal Flood Protection, Ecosystem Restoration, and Recreational Enhancement Project	90	0	0	20	0	0	75	Yes	0	0	0	25	0	0	0	No	210	239	Tier 3	West	San Francisquito Creek Joint Powers Authority
Castro Valley Flood Control Improvement Project	50	40	5	0	0	2	75	Yes	0	0	0	25	0	10	0	No	207	241	Tier 3	East	Alameda County Flood Control and Water Conservation District
Sinbad Creek Project (R11-2)	120	40	0	0	0	2	35	No	0	0	0	0	0	10	0	No	207	241	Tier 3	East	Zone 7 Water Agency
San Lorenzo Creek Flood Control Project - Phase 1	100	20	0	0	0	6	75	No	0	0	0	0	0	5	0	No	206	243	Tier 3	East	Alameda County Flood Control and Water Conservation District
Cull Canyon Dam and Reservoir Project	90	20	5	0	0	0	75	No	0	0	0	0	0	10	5	No	205	244	Tier 3	East	Alameda County Flood Control and Water Conservation District
Rodeo Creek Stabilization near Christie Road, Rodeo (#16)	70	60	0	0	0	0	75	No	0	0	0	0	0	0	0	No	205	244	Tier 3	East	Contra Costa County Flood Control and Water Conservation District
Mountain View/ Sunnyvale Recycled Water Intertie Alignment Study	70	0	0	20	0	0	75	No	0	0	0	25	0	10	5	Yes	205	244	Tier 3	South	City of Mountain View
Arroyo De La Laguna (ADLL) Improvement Project 1 (R10-1)	70	40	0	0	0	2	75	No	0	0	0	0	0	15	0	No	202	247	Tier 3	East	Zone 7 Water Agency
Sycamore Grove Recharge Bypass Project (R4-1)	100	20	0	0	0	2	75	No	0	0	0	0	0	5	0	No	202	247	Tier 3	East	Zone 7 Water Agency
Fish Barrier Removal at Railroad Overcrossing (R3-5b)	50	20	15	30	0	0	75	No	0	0	0	0	0	10	0	No	200	249	Tier 3	East	Zone 7 Water Agency
San Lorenzo Creek Watershed Fisheries Restoration Project - Major Fish Passage Barrier Removal (MB-10) Phase 2	50	40	15	0	0	0	75	No	0	0	0	0	0	20	0	No	200	249	Tier 3	East	Alameda County Flood Control and Water Conservation District
Estudillo Canal Area/San Leandro Flood Control Improvement Project - Phase 1	70	40	0	0	0	2	75	No	0	0	0	0	0	10	0	No	197	251	Tier 3	East	Alameda County Flood Control and Water Conservation District
Bayside Groundwater Project Phase 2	90	20	0	0	0	0	75	No	0	0	0	0	0	10	0	No	195	252	Tier 3	East	EBMUD
Bockman Canal Area Flood Control Improvement Project	60	40	15	0	0	0	75	No	0	0	0	0	0	5	0	No	195	252	Tier 3	East	Alameda County Flood Control and Water Conservation District
Rodeo Creek Sediment Removal, Rodeo (#14)	70	20	0	20	0	0	75	No	0	0	0	0	0	10	0	No	195	252	Tier 3	East	Contra Costa County Flood Control and Water Conservation District
Veterans' Court Seawall Reconstruction	30	0	0	0	0	2	75	No	0	0	0	25	50	10	0	No	192	255	Tier 3	East	City of Alameda
Portola Redwood State Park Wastewater System	50	60	0	0	0	2	75	No	0	0	0	0	0	5	0	No	192	255	Tier 3	West	**(unknown)**
San Pablo Bay South Watershed Awareness and Action Plan	0	0	50	20	20	0	75	yes	0	0	0	25	0	0	0	No	190	257	Tier 3	East	The Watershed Project
Arroyo Seco Improvements (R2-2)	60	40	0	0	0	2	75	No	0	0	0	0	0	10	0	No	187	258	Tier 3	East	Zone 7 Water Agency
Beach Watch Program	40	0	50	0	0	4	75	No	0	0	0	0	0	10	0	No	179	259	Tier 3	North South West	Farallones Marine Sanctuary Association
Alamo Canal/South San Ramon Creek Erosion Control (R9-1)	90	0	0	0	0	2	75	No	0	0	0	0	0	10	0	No	177	260	Tier 3	East	Zone 7 Water Agency
Alameda County Healthy Watershed Program	0	0	50	30	20	0	75	No	0	0	0	0	0	0	0	No	175	261	Tier 3	East	Alameda County Resource Conservation District
Charcot Storm Pump Station	0	60	0	0	0	0	75	No	0	0	0	25	0	15	0	No	175	261	Tier 3	South	City San Jose
Estudillo Canal Area/San Leandro Flood Control Improvement Project - Phase 2	50	40	0	0	0	2	75	No	0	0	0	0	0	5	0	No	172	263	Tier 3	East	Alameda County Flood Control and Water Conservation District
Estudillo Canal Area/San Leandro Flood Control Improvement Project - Phase 3	70	20	0	0	0	2	75	No	0	0	0	0	0	5	0	No	172	263	Tier 3	East	Alameda County Flood Control and Water Conservation District
Mission Boulevard to Meek Estate Creekside Trail and Habitat Improvements	60	20	15	0	0	2	75	No	0	0	0	0	0	0	0	No	172	263	Tier 3	East	Alameda County Flood Control and Water Conservation District
South East Bay Plain Basin Subsidence Monitoring Network	40	20	0	0	0	0	75	Yes	0	0	0	25	0	10	0	No	170	266	Tier 3	East	EBMUD
Sulphur Creek/Hayward Flood Control Improvement Project	60	20	5	0	0	0	75	No	0	0	0	0	0	10	0	No	170	266	Tier 3	East	Alameda County Flood Control and Water Conservation District
Corte Madera Creek Tidal Marsh Restoration	10	60	0	0	0	0	75	No	0	0	0	0	0	20	5	No	170	266	Tier 3	North	Friends of Corte Madera Creek Watershed; Marin County Water Conservatio
Alamo Canal Flood Control Program (R9-7)	80	0	0	0	0	2	75	No	0	0	0	0	0	10	0	No	167	269	Tier 3	East	Zone 7 Water Agency
Capacity Improvement at Arroyo las Positas (R1-7)	50	20	0	10	0	2	75	No	0	0	0	0	0	10	0	No	167	269	Tier 3	East	Zone 7 Water Agency
Velocity Control Project (R2-1)	40	40	0	0	0	2	75	No	0	0	0	0	0	10	0	No	167	269	Tier 3	East	Zone 7 Water Agency
San Lorenzo Creek Flood Control Project - Phase 2	30	40	0	0	0	6	75	No	0	0	0	0	0	15	0	No	166	272	Tier 3	East	Alameda County Flood Control and Water Conservation District
Tice Creek Bypass (Drainage Area 67), Walnut Creek, CA (#117)	50	20	0	0	0	2	75	No	0	0	0	0	0	10	0	No	157	273	Tier 3	East	Contra Costa County Flood Control and Water Conservation District
Alkali Sink Management (R1-2)	40	0	0	0	20	2	75	No	0	0	0	0	0	15	0	No	152	274	Tier 3	East	Zone 7 Water Agency
Assessment of an urban watershed and implementation of urban stormwater retrofit projects	0	40	0	30	20	0	35	Yes	0	0	0	25	0	0	0	No	150	275	Tier 3	East	Friends of Sausal Creek
Streambank and Habitat Restoration Projects	0	0	15	30	20	0	35	No	0	0	0	0	50	0	0	No	150	275	Tier 3	East	Alameda County Resource Conservation District
Line T Crossing Retrofit (R9-4)	50	20	0	0	0	2	75	No	0	0	0	0	0	0	0	No	147	277	Tier 3	East	Zone 7 Water Agency
Headquarters Facility - Landscaping	30	20	0	0	0	8	75	No	0	0	0	0	0	10	0	No	143	278	Tier 3	East	Alameda County Water District
Alameda County Habitat Easements	0	0	15	30	20	0	75	No	0	0	0	0	0	0	0	No	140	279	Tier 3	East	Alameda County Resource Conservation District
Creek Signage	0	0	15	0	0	0	75	No	0	0	0	0	50	0	0	No	140	279	Tier 3	East	Alameda County Resource Conservation District
Arroyo las Positas Habitat Enhancement and Recreation Project (R1-5)	30	20	0	0	0	2	75	No	0	0	0	0	0	10	0	No	137	281	Tier 3	East	Zone 7 Water Agency
Springtown Golf Course Improvements (R1-4)	20	40	0	0	0	2	75	No	0	0	0	0	0	0	0	No	137	281	Tier 3	East	Zone 7 Water Agency
Implementation of Pond Management Plan	0	20	0	0	0	6	75	No	0	0	0	25	0	5	0	No	131	283	Tier 3	West	Midpeninsula Regional Open Space District
Alameda County Foothill Blvd. Transportation Stormwater Quality Improvement	30	0	0	0	0	0	75	Yes	0	0	0	25	0	0	0	No	130	284	Tier 3	East	Alameda County
Palo Alto Golf Course Redesign Wetlands Enhancement and Restoration Project	40	0	15	0	0	0	75	No	0	0	0	0	0	0	0	No	130	284	Tier 3	South	City of Palo Alto
Altamont Creek Improvement (R1-1)	30	0	0	0	0	2	75	No	0	0	0	0	0	20	0	No	127	286	Tier 3	East	Zone 7 Water Agency
San Francisquito Watershed Plan	0	0	50	0	0	0	75	No	0	0	0	0	0	0	0	No	125	287	Tier 3	South West	San Francisquito Creek Joint Powers Authority

South San Francisco Recycled Water Facility	0	0	0	20	0	4	75	Yes	0	0	0	25	0	0	0	No	124	288	Tier 3	West	South San Francisco/SFPUC
Alameda County Adopt-A-Creek-Spot	0	0	15	30	0	0	75	No	0	0	0	0	0	0	0	No	120	289	Tier 3	East	Alameda County Resource Conservation District
San Catanio Creek culvert repair and enhancement	0	20	0	0	0	0	75	No	0	0	0	25	0	0	0	No	120	289	Tier 3	East	City of San Ramon
Corte Madera Creek Watershed Infiltration and Storage Assessment	0	0	15	10	20	0	75	No	0	0	0	0	0	0	0	No	120	289	Tier 3	North	Ross Valley Watershed Program, Friends of Corte Madera Creek Watershe
Springtown Improvements (R1-3)	30	0	0	0	0	2	75	No	0	0	0	0	0	10	0	No	117	292	Tier 3	East	Zone 7 Water Agency
South East Bay Plain Basin Groundwater Model Enhancements	20	20	0	0	0	0	75	No	0	0	0	0	0	0	0	No	115	293	Tier 3	East	East Bay Municipal Utility District
Wildcat/San Pablo Creeks Phase II Channel Improvements, San Pablo (#9)	30	20	0	0	0	0	35	Yes	0	0	0	25	0	5	0	No	115	293	Tier 3	East	City of San Pablo
Anderson Dam Seismic Retrofit	0	0	15	0	0	0	75	No	0	0	0	25	0	0	0	No	115	293	Tier 3	South	Santa Clara Valley Water District
Alameda County Riparian Invasive Mapping and Removal	0	0	15	10	0	0	75	No	0	0	0	0	0	0	0	No	100	296	Tier 3	East	Alameda County Resource Conservation District
Corte Madera Creek Watershed: Barriers to Fish Passage in Sleepy Hollow Creek	0	0	15	10	0	0	75	No	0	0	0	0	0	0	0	No	100	296	Tier 3	North	Town of San Anselmo, Marin County Department of Public Works
Napa River Arundo Removal Lodi Lane to Zinfandel Lane	0	0	15	0	0	0	75	No	0	0	0	0	0	0	0	No	90	298	Tier 3	North	Napa County Flood Control and Water Conservation District
SCADA System Major Upgrades	40	0	0	0	0	4	35	No	0	0	0	0	0	5	5	No	89	299	Tier 3	East	Alameda County Water District
Alameda County Patterson Pass Road Transportation Stormwater Quality Improvement	0	0	5	0	0	0	75	No	0	0	0	0	0	0	0	No	80	300	Tier 3	East	Alameda County Water District
Alameda County Tesla Road Transportation Stormwater Quality Improvement	0	0	5	0	0	0	75	No	0	0	0	0	0	0	0	No	80	300	Tier 3	East	Alameda County Water District
Corte Madera Creek Watershed: Smolt Trapping	30	0	15	0	0	0	35	No	0	0	0	0	0	0	0	No	80	300	Tier 3	North	Friends of Corte Madera Creek Watershed
Agricultural Riparian Buffer and Habitat Enhancement	0	0	0	0	0	0	75	No	0	0	0	0	0	0	0	No	75	303	Tier 3	East	Alameda County Resources Control District
Alameda County Norbridge/Strobridge Road Transportation Stormwater Quality Improvement	0	0	0	0	0	0	75	No	0	0	0	0	0	0	0	No	75	303	Tier 3	East	Alameda County Water District
Suisun Valley Flood Management	20	20	0	0	0	0	35	No	0	0	0	0	0	0	0	No	75	303	Tier 3	North	Solano County Water Agency
Santa Clara Valley Water District Advanced Recycled Water Treatment Facility Expansion Project	0	0	0	0	0	0	75	No	0	0	0	0	0	0	0	No	75	303	Tier 3	South	Santa Clara Valley Water District
Exterior Painting of Skyline Tanks	0	0	0	0	0	0	75	No	0	0	0	0	0	0	0	No	75	303	Tier 3	West	Westborough Water District
Installation of a New Seismic Valve at Skyline Tanks	0	0	0	0	0	0	75	No	0	0	0	0	0	0	0	No	75	303	Tier 3	West	Westborough Water District
Memorial Park Waste Water Treatment	0	0	0	0	0	0	75	No	0	0	0	0	0	0	0	No	75	303	Tier 3	West	San Mateo County
Solano Project Terminal Reservoir Seismic Mitigation	30	0	0	0	0	0	35	No	0	0	0	0	0	0	0	No	65	310	Tier 3	North	Solano County Water Agency
Alameda County Vasco Road Transportation Stormwater Quality Improvement	0	0	5	0	0	0	35	No	0	0	0	0	0	0	0	No	40	311	Tier 3	East	Alameda County Water District
Permanente Creek Flood Protection	0	0	0	0	0	0	35	No	0	0	0	0	0	0	0	No	35	312	Tier 3	South	Santa Clara Valley Water District
New Pressure Reducing Valve (PRV) Station	0	0	0	0	0	0	35	No	0	0	0	0	0	0	0	No	35	312	Tier 3	West	Westborough Water District
New Tank Mixer for Skyline Tanks	0	0	0	0	0	0	35	No	0	0	0	0	0	0	0	No	35	312	Tier 3	West	Westborough Water District
Westborough Main Pump Station Generator	0	0	0	0	0	0	35	No	0	0	0	0	0	0	0	No	35	312	Tier 3	West	Westborough Water District

APPENDIX 3-3: Planning Study Report

(Provided on Attached CD as file Att3_SWF_WorkPlan_2of4)

APPENDIX 3-4: Subsequent Environmental Impact Report

(Provided on Attached CD as file Att3_SWF_WorkPlan_3of4)

APPENDIX 3-5: 60% Design Documents

(Provided separately as hard copy and on attached CD as file Att3_SWF_WorkPlan_4of4)