

Proposal Full View

[Print](#)

Applicant Information

Organization Name: Marin County FC&WCD - *

Tax ID: 946000519

Proposal Name: Phoenix Lake Integrated Regional Water Management (IRWM) Retrofit *

Proposal Objective: Phoenix Lake IRWM Retrofit is a multi-purpose proposal composed of five component projects, all located at Phoenix Lake: Flood Damage Reduction; Water Supply; Water Quality; Ecosystem Restoration; and Recreation and Public Access. By seismically retrofitting the dam and constructing other improvements to the hydraulic and recreational infrastructures of the lake so it can be operated to serve multiple purposes of flood control, drinking water supply, water quality, ecosystem restoration, and public recreation, the Retrofit meets the 6 regional goals and 62 objectives of the Bay Area IRWM Plan. *

Budget

Other Contribution	<input type="text" value="\$0.00"/>
Local Contribution	<input type="text" value="\$7,661,000.00"/>
Federal Contribution	<input type="text" value="\$0.00"/>
Inkind Contribution	<input type="text" value="\$0.00"/>
Amount Requested	<input type="text" value="\$7,661,000.00"/> *
Total Project Cost	<input type="text" value="\$15,322,000.00"/> *

Geographic Information

Latitude * DD(+/-) MM SS

Longitude * DD(+/-) MM SS

Longitude/Latitude Clarification: Location

County: Marin *

Ground Water Basin: Ross Valley

Hydrologic Region: San Francisco Bay

Watershed: Bay Bridges

Legislative Information

Assembly District: 6th Assembly District *

Senate District: 3rd Senate District *

US Congressional District: District 6 (CA) *

Project Information

Project Benefits Information

Project Name:

Project Benefit Type	Benefit Type	Measurement	Description
Primary	Water Storage -- Surface-Water Quality Improvement	420	The Water Quality Project involves installing two self-contained, solar-powered circulation devices to improve lake clarity and address taste and odor problems by reducing algae and iron and manganese.
Secondary	Public Access/Recreation	20	Improved lake clarity will enhance the fishery and the enjoyment of the lake by fishermen, hikers and other recreational visitors.
Tertiary	Ecosystem: Shallow Water/ Marsh/ Wetland Habitat	20	By inducing lake circulation lake water quality will be improved which will enhance aquatic habitat conditions in the lake.

Budget

Other Contribution	<input type="text" value="0"/>
Local Contribution	<input type="text" value="191000"/>
Federal Contribution	<input type="text" value="0"/>
Inkind Contribution	

Amount Requested	<input type="text" value="0"/>
Total Project Cost	<input type="text" value="191000"/>
Geographic Information	
Latitude DD(+/-)	<input type="text" value="37"/> MM <input type="text" value="57"/> SS <input type="text" value="18"/>
Longitude DD(+/-)	<input type="text" value="-122"/> MM <input type="text" value="34"/> SS <input type="text" value="36"/>
Longitude/Latitude Clarification	<input type="text"/> Location <input type="text"/>
County	Marin
Ground Water Basin	Ross Valley
Hydrologic Region	San Francisco Bay
WaterShed	Bay Bridges

Legislative Information

Assembly District	6th Assembly District
Senate District	3rd Senate District
US Congressional District	District 6 (CA)

Project Information

Project Benefits Information

Project Name

Project Benefit Type	Benefit Type	Measurement	Description
Primary	Ecosystem: Riparian Habitat	36	The Ecosystem Restoration Project involves installing a small gate on the modified intake of the low-level drain to enable precise control of releases of cool water withdrawn from the lake hypolimnion to improve aquatic habitat and aid in ecosystem restoration of Ross Creek.

Budget

Other Contribution	<input type="text" value="0"/>
Local Contribution	<input type="text" value="136000"/>
Federal Contribution	<input type="text" value="0"/>
Inkind Contribution	<input type="text" value="0"/>
Amount Requested	<input type="text" value="135000"/>
Total Project Cost	<input type="text" value="271000"/>

Geographic Information

Latitude DD(+/-)	<input type="text" value="37"/> MM <input type="text" value="57"/> SS <input type="text" value="18"/>
Longitude DD(+/-)	<input type="text" value="-122"/> MM <input type="text" value="34"/> SS <input type="text" value="36"/>
Longitude/Latitude Clarification	<input type="text"/> Location <input type="text"/>
County	Marin
Ground Water Basin	Ross Valley
Hydrologic Region	San Francisco Bay
WaterShed	Bay Bridges

Legislative Information

Assembly District	6th Assembly District
Senate District	3rd Senate District
US Congressional District	District 6 (CA)

Project Information

Project Benefits Information

Project Name

Project Benefit Type	Benefit Type	Measurement	Description
Primary	Public Access/Recreation	100	The Recreation and Public Access Project involves improvements to lakeside roads, trails, and visitor use facilities enhance the visitor experience, add a public outreach, stewardship and educational component, and thereby reduce user impacts to the Phoenix Lake watershed.
Secondary	Sediment Removal-Water Quality Improvement	420	Improving trails and roads surrounding the lake will reduce erosion and delivery of sediment and NPS pollutants to the lake, thereby improving lake water quality.
Tertiary	Stormwater Flood-Water Supply Enhancement	420	Reduced erosion and sediment delivery to the lake will preserve lake storage capacity for water supply and flood attenuation.

Budget

Other Contribution	<input type="text" value="0"/>
Local Contribution	<input type="text" value="905000"/>
Federal Contribution	<input type="text" value="0"/>
Inkind Contribution	<input type="text" value="0"/>
Amount Requested	<input type="text" value="905000"/>
Total Project Cost	<input type="text" value="1810000"/>

Geographic Information

Latitude DD(+/-)	<input type="text" value="37"/>	MM	<input type="text" value="57"/>	SS	<input type="text" value="18"/>
Longitude DD(+/-)	<input type="text" value="-122"/>	MM	<input type="text" value="34"/>	SS	<input type="text" value="36"/>
Longitude/Latitude Clarification	<input type="text"/>	Location			<input type="text" value="Marin County"/>

County	Marin
Ground Water Basin	Ross Valley
Hydrologic Region	San Francisco Bay
WaterShed	Bay Bridges

Legislative Information

Assembly District	6th Assembly District
Senate District	3rd Senate District
US Congressional District	District 6 (CA)

Project Information

Project Benefits Information

Project Name

Project Benefit Type	Benefit Type	Measurement	Description
Primary	Water Storage -- Surface-Water Supply Enhancement	107	The Water Supply Project involves installing a pneumatic spillway gate to enable raising the lake level, thereby increasing lake storage capacity and water supply yield. The Project also includes piping modifications that will eliminate some potential cross connection issues between the potable water and untreated Phoenix Lake water and facilitate use of Phoenix Lake water on a more regular basis.
Secondary	Stormwater Flood-Water Supply Enhancement	460	Installing a pneumatic spillway gate to enable raising the lake level will increase lake storage and flood attenuation capacity.
			Installing a pneumatic spillway gate enables raising the lake level which will

Tertiary	Threatened or Endangered Species Recovery	36	increase lake depth and thickness of the hypolimnion thereby increasing the volume of cool water available for release to Ross Creek for ecosystem/habitat improvement and to aid in the recovery of threatened/endangered steelhead and coho salmon.
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Budget

Other Contribution	<input type="text" value="0"/>
Local Contribution	<input type="text" value="341000"/>
Federal Contribution	<input type="text" value="0"/>
Inkind Contribution	<input type="text" value="0"/>
Amount Requested	<input type="text" value="341000"/>
Total Project Cost	<input type="text" value="682000"/>

Geographic Information

Latitude DD(+/-)	<input type="text" value="37"/>	MM 57	SS 18
Longitude DD(+/-)	<input type="text" value="-122"/>	MM 34	SS 36

Longitude/Latitude Clarification Location

County	Marin
Ground Water Basin	Ross Valley
Hydrologic Region	San Francisco Bay
WaterShed	Bay Bridges

Legislative Information

Assembly District	6th Assembly District
Senate District	3rd Senate District
US Congressional District	District 6 (CA)

Project Information

Project Benefits Information

Project Name

Project Benefit Type	Benefit Type	Measurement	Description
Primary	Flood Protection	0	By seismically retrofitting the dam and constructing other improvements to the lake's water management infrastructure, the lake can be operated for flood detention. The Flood Damage Reduction Project involves stabilizing the dam and modifying the low-level drain to enable safe and effective flood detention operations.
Secondary	Ecosystem: Riparian Habitat	36	The modified low-level intake also enables withdrawal of cool water from the lake hypolimnion during the dry season for release to Ross Creek for coldwater habitat/ecosystem restoration.
Tertiary	Threatened or Endangered Species Recovery	36	Modifying the low-level intake will enable release to Ross Creek for coldwater habitat/ecosystem restoration which will also aid in the recovery of threatend/endangered steelhead and coho salmon.
Quaternary	Dam Modification	0	Seismic retrofit of the dam will enhance public safety and improve the reliability of Phoenix Lake for its multiple purposes.

Budget

Other Contribution	<input type="text" value="0"/>
Local Contribution	<input type="text" value="6089000"/>
Federal Contribution	<input type="text" value="0"/>
Inkind Contribution	<input type="text" value="0"/>

Amount Requested	6088000		
Total Project Cost	12177000		
Geographic Information			
Latitude DD(+/-)	37	MM 57	SS 18
Longitude DD(+/-)	-122	MM 34	SS 36
Longitude/Latitude Clarification		Location	Marin County
County	Marin		
Ground Water Basin	Ross Valley		
Hydrologic Region	San Francisco Bay		
WaterShed	Bay Bridges		

Legislative Information

Assembly District	6th Assembly District
Senate District	3rd Senate District
US Congressional District	District 6 (CA)

Section : Applicant Information Question Tab

APPLICANT INFORMATION QUESTION TAB

Q1. PROPOSAL DESCRIPTION

Provide a brief abstract of the Proposal, including a listing of individual project titles or types.

The Phoenix Lake IRWM Retrofit brings together two agencies, Marin County FC&WCD and Marin Municipal WD, in a landmark partnership to expand the function and utilization of an important local resource, MMWD's Phoenix Lake, for the greater benefit of the public at the local, regional, and Statewide levels. By seismically retrofitting the dam and constructing other improvements to the lake's water management and recreational infrastructures, the lake can be operated to serve the multiple purposes of flood control, drinking water supply, ecosystem restoration, and public recreation. In this way the Retrofit meets the 6 goals and 62 objectives of the Bay Area IRWM Plan. The Retrofit is a multi-purpose proposal composed of five component projects, all located at Phoenix Lake, that work synergistically to maximize public benefits. The Flood Damage Reduction Project involves stabilizing the dam and modifying the low-level drain to enable safe and effective flood detention operations. The Water Supply Project involves installing a pneumatic spillway gate to enable raising the lake level, thereby increasing lake storage, water supply yield, and flood attenuation capacity. The Water Quality Project involves installing two self-contained, solar-powered circulation devices to improve lake clarity and address taste and odor problems by reducing algae and iron and manganese. The Ecosystem Restoration Project involves installing a small gate on the modified intake of the low-level drain to enable precise control of releases of cool water withdrawn from the lake hypolimnion to improve habitat for steelhead and other coldwater aquatic species in Ross Creek. The Recreation and Public Access Project involves improvements to lakeside roads, trails, and visitor use facilities to reduce erosion and delivery of sediment and NPS pollutants to the lake, enhance the visitor experience, add a public outreach, stewardship and educational component, and thereby reduce user impacts to the Phoenix Lake watershed.

Q2. PROJECT DIRECTOR

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

Farhad Mansourian, Director Department of Public Works County of Marin 3501 Civic Center Drive Room #304 San Rafael, CA 94903 Phone: (415) 499-6530 Fax: (415) 499-3799 TTY: (415) 473-3232 Send Email to: FMansourian@co.marin.ca.us

Q3. PROJECT MANAGEMENT

Provide the name and contact information (including email) of the Project Manager from the applicant agency or organization that will be the day-to-day contact on this application.

Jack Curley, Capital Projects Program Manager Department of Public Works County of Marin 3501 Civic Center Drive Room #304 San Rafael, CA 94903 Phone: (415) 499-3051 Fax: (415) 499-3799 TTY: (415) 473-3232 Send Email to: jcurley@co.marin.ca.us

Q4. APPLICANT INFORMATION

Provide the agency name, address, city, state, and zip code of the applicant submitting the application. Also provide the name and contact information of the person filling out the online application.

Marin County Flood Control and Water Conservation District Attention: Farhad Mansourian, Director 3501 Civic Center Drive Room #304 San Rafael, CA 94903 James Reilly, PE Stetson Engineers Inc. 2171 E. Francisco Blvd., Suite K San Rafael, CA 94901 Phone: (415) 457-0701 Fax: (415) 457-1638 Send Email to: jamesr@stetsonengineers.com

Q5. ADDITIONAL INFORMATION

Provide the funding area(s) in which projects are located.

http://www.water.ca.gov/irwm/integregio_fundingarea.cfm

San Francisco Bay Area

Q6. RESPONSIBLE REGIONAL WATER QUALITY CONTROL BOARD (S)

List the name of the Regional Water Quality Control Board (RWQCB) in which your proposal is located. For a region that extends beyond more than one RWQCB boundary, list the name of each Board.

http://www.waterboards.ca.gov/waterboards_map.shtml

San Francisco Bay Area Regional Water Quality Control Board

**Q7.
ELIGIBILITY**

Is the application from an IRWM planning region approved in the RAP (See Section II B, Table 1)? If yes, include the name of the IRWM planning region. If not, explain.

Yes. San Francisco Bay Area IRWM Plan

**Q8.
ELIGIBILITY**

Is the applicant a local agency or non-profit organization as defined in Appendix B of the Grant Guidelines?

Yes, MCFC&WCD is a local agency.

**Q9.
ELIGIBILITY**

List the urban water suppliers that will receive funding from the proposed grant. Those listed must submit self certification of compliance with CWC §525 et seq. and AB 1420. If there are none, so indicate and you do not have to answer Q10 and Q11.

None.

**Q10.
ELIGIBILITY**

Have all of the urban water suppliers, listed in Q9 above, submitted complete 2005 Urban Water Management Plans (UWMP) to DWR? Have those plans been verified as complete by DWR? If not, explain and provide the anticipated date for having a complete UWMP. Will all of the urban water suppliers listed in Q9, along with any additional urban water suppliers that meet the urban water supplier definition threshold for the first time, submit updated 2010 UWMPs, consistent with the 2010 UWMP Guidebook and verified as complete by DWR, before the execution of a grant agreement? If not, explain.

Not applicable.

**Q11.
ELIGIBILITY**

Have any urban water suppliers listed in Q9 recently submitted AB 1420 compliance tables and supporting documentation to DWR for a different grant program within the past three months? If so, please list the urban water supplier and the grant program. An urban water supplier must submit AB 1420 compliance documentation to DWR. If the urban water supplier has not submitted AB 1420 documentation, or that documentation was determined to be incomplete by DWR, the urban water supplier's projects will not be considered eligible for grant funding. Refer to Section III B of the Guidelines for additional information.

Not applicable.

**Q12.
ELIGIBILITY**

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

No.

**Q13.
ELIGIBILITY**

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

Not applicable.

**Q14:
ELIGIBILITY**

Does the applicant have a Stormwater Resources Plan developed pursuant to Part 2.3 (commencing with Section 10560) of Division 6 of the Water Code, or an IRWM Plan that includes the Stormwater Resources Plan requirements specified in Section 10562 of the Water Code? Please answer yes or no. If yes, please answer Question 15 or 16, as applicable.

- a) Yes
b) No

**Q15:
ELIGIBILITY**

For applicants with a Stormwater Resources Plan, does that Plan meet the standards set forth in Part 2.3 of Division 6 of the CWC? If yes, provide attachment 13.

- a) Yes
b) No

**Q16:
ELIGIBILITY**

For applicants with an IRWM Plan, does that Plan include the Stormwater Resources Plan requirements specified in Section 10562 of the CWC? If yes, provide attachment 13.

- a) Yes
b) No

**NOTES TO BMS
ADMINISTRATOR**

Provide notes about any potential problems you may have had with BMS that are particular to your application.

When I clicked the link to the website for help in Q5, BMS exited/closed this tab and I lost my entries.

Section : Application Attachments Tab**APPLICATION ATTACHMENTS TAB****ATTACHMENT 1: AUTHORIZATION AND ELIGIBILITY
REQUIREMENTS**

Upload Authorization and Eligibility documentation here. Ensure file name is consistent with section V of the Stormwater Flood Management PSP (disregard the 5 digit pin).

Last Uploaded Attachments: Att1_SWF_Eligible_1of1.pdf

Upload additional Authorization and Eligibility documentation here.

**ATTACHMENT 2: ADOPTED PLAN AND PROOF OF FORMAL
ADOPTION**

Upload Proof of Formal Adoption documentation here. Ensure file name is consistent with section V of the Stormwater Flood Management PSP (disregard the 5 digit pin).

Last Uploaded Attachments: Att2_SWF_Adopt_1of1.pdf

Upload additional Proof of Formal Adoption documentation here.

**ATTACHMENT
3: WORK PLAN**

Upload the Work Plan here. Ensure file name is consistent with section V of the Stormwater Flood Management PSP (disregard the 5 digit pin).

Last Uploaded Attachments: Att3_SWF_WorkPlan_1of1.pdf

Upload additional work plan components here.

**ATTACHMENT 4:
BUDGET**

Upload the Budget here. Ensure file name is consistent with section V of the Stormwater Flood Management PSP (disregard the 5 digit pin).

Last Uploaded Attachments: Att4_SWF_Budget_1of1.pdf

Upload additional budget components here.

**ATTACHMENT 5:
SCHEDULE**

Upload the Schedule here. Ensure file name is consistent with section V of the Stormwater Flood Management PSP (disregard the 5 digit pin).

Last Uploaded Attachments: Att5_SWF_Schedule_1of1.pdf

Upload additional schedule components here.

**ATTACHMENT 6: MONITORING, ASSESSMENT, AND PERFORMANCE
MEASURES**

Upload Monitoring, Assessment, and Performance Measures here. Ensure file name is consistent with section V of the Stormwater Flood Management PSP (disregard the 5 digit pin).

Last Uploaded Attachments: Att6_SWF_Measures_1of1.pdf

Upload additional Monitoring, Assessment, and Performance Measures here.

ATTACHMENT 7: ECONOMIC ANALYSIS - FLOOD DAMAGE REDUCTION COSTS AND BENEFITS

Upload Economic Analysis - Flood Damage Reduction Costs and Benefits here. Ensure file name is consistent with section V of the Stormwater Flood Management PSP (disregard the 5 digit pin).

Last Uploaded Attachments: Att7_SWF_DReduc_1of1.pdf

Upload additional Economic Analysis - Flood Damage Reduction Costs and Benefits documentation here.

Upload additional Economic Analysis - Flood Damage Reduction Costs and Benefits documentation here.

Upload additional Economic Analysis - Flood Damage Reduction Costs and Benefits documentation here.

Upload additional Economic Analysis - Flood Damage Reduction Costs and Benefits documentation here.

ATTACHMENT 8: ECONOMIC ANALYSIS - WATER SUPPLY COSTS AND BENEFITS

Upload Economic Analysis - Water Supply Costs and Benefits here. Ensure file name is consistent with section V of the Stormwater Flood Management PSP (disregard the 5 digit pin).

Last Uploaded Attachments: Att8_SWF_WSBen_1of1.pdf

Upload additional - Water Supply Costs and Benefits documentation here.

Upload additional - Water Supply Costs and Benefits documentation here.

Upload additional - Water Supply Costs and Benefits documentation here.

Upload additional - Water Supply Costs and Benefits documentation here.

Section : Application Attachments Tab (cont)

APPLICATION ATTACHMENTS TAB (CONT)

ATTACHMENT 9: WATER QUALITY AND OTHER EXPECTED BENEFITS

Upload Water Quality and Other Expected Benefits here. Ensure file name is consistent with section V of the Stormwater Flood Management PSP (disregard the 5 digit pin).

Last Uploaded Attachments: Att9_SWF_WQOtherBen_1of1.pdf

Upload additional Water Quality and Other Expected Benefits documentation here.

Upload additional Water Quality and Other Expected Benefits documentation here.

Upload additional Water Quality and Other Expected Benefits documentation here.

Upload additional Water Quality and Other Expected Benefits documentation here.

ATTACHMENT 10: COSTS AND BENEFITS SUMMARY

Upload Costs and Benefits Summary here. Ensure file name is consistent with section V of the Stormwater Flood Management PSP (disregard the 5 digit pin).

Last Uploaded Attachments: Att10_SWF_CBSummary_1of1.pdf

Upload additional Costs and Benefits Summary documentation here.

ATTACHMENT 11: PROGRAM PREFERENCES

Upload Program Preference documentation here. Ensure file name is consistent with section V of the Stormwater Flood Management PSP (disregard the 5 digit pin).

Last Uploaded Attachments: Att11_SWF_Preference_1of1.pdf

Upload additional Program Preference documentation here.

ATTACHMENT 12: AB1420 AND WATER METER COMPLIANCE INFORMATION

Upload AB1420 and Water Meter Compliance Information here. Ensure file name is consistent with section V of the Stormwater Flood Management PSP (disregard the 5 digit pin).

Upload additional AB1420 and Water Meter Compliance documentation here.

Upload additional AB1420 and Water Meter Compliance documentation here.

Upload additional AB1420 and Water Meter Compliance documentation here.

Upload additional AB1420 and Water Meter Compliance documentation here.

ATTACHMENT 13: STORMWATER RESOURCES PLAN

This attachment is only necessary if the applicant has an existing Stormwater Resources Plan, pursuant (commencing with Section 10560) of Division 6 of the Water Code and answered "yes" to Q15 or Q16.

The summary text must be no more than 5 pages in length using a minimum of 10-point type font. Excerpts from the Plan must not exceed 15 pages.

Attachment 13 must provide the following:

Identify and include portions of the applicable Plan that demonstrate all of the standards of Part 2.3 (commencing with Section 10560) of Division 6 of the CWC.

Last Uploaded Attachments: Att13_SWF_Strmrespln_1of1.pdf

Upload additional Stormwater Resources Plan documentation here.
