

**Pajaro River Watershed Integrated Regional Water Management Plan Update
Project Solicitation Form**

PROJECT OVERVIEW

General Project Information

Project Title:	Zebra Mussel Eradication Project
Project Location:	San Justo Reservoir + Northern San Benito County
Estimated Cost:	\$2.5 Million

Brief Project Description (1 to 2 sentences):

The eradication of zebra mussels in San Justo Reservoir and pipeline infrastructure in San Benito County is two-fold and involves: (1) the treatment of San Justo Reservoir using muriate of potash (potash or potassium chloride); and (2) the treatment of the Hollister Conduit in combination with District-owned water delivery conveyances (pipeline system) using potash.

Project Proponent Information

Contact Name:	Dale Rosskamp
Affiliation:	San Benito County Water District
Address:	30 Mansfield Road, Hollister, CA 95023
Phone Number:	831-637-8218 x120
Email:	

Other participating agencies/organizations (if applicable):

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DETAILED PROJECT INFORMATION

Description

Please provide a description of your project (including the location) and its purpose, what will be constructed and/or implemented, how the project will function, the area(s) and/or entities that will be affected by or will benefit from the project, and any potential obstacles to implementation.

Zebra mussels; invasive aquatic pests, have infested and established themselves in San Justo Reservoir and the Hollister Conduit portions of the Bureau of Reclamation - Central Valley Project (CVP).

San Benito County Water District (SBCWD) draws CVP water from the Hollister Conduit and San Justo Reservoir to serve residential and agricultural customers in the City of Hollister and unincorporated San Benito County, California.

If this infestation is not eradicated: (1) critical reservoir and pipeline infrastructure will be damaged and rendered unusable for water service deliveries to customers; (2) zebra mussels will likely spread to other reservoirs, waterways, and pipelines in the region. This would be catastrophic, and would encompass a scale of impact and cost that could severely hinder the county and states economic recovery.

**Pajaro River Watershed Integrated Regional Water Management Plan Update
Project Solicitation Form**

Hollister is home to approximately 38,000, with a total population of approximately 57,000 for the county. San Benito County produces over 40 different crops, and agriculture is the county's major industry grossing over \$200 million dollars annually.

San Benito County Water District encompasses the communities of Hollister and San Juan Bautista, plus the unincorporated areas of San Benito County, and provides CVP water service and CVP benefit to approximately 85% of the County's population.

Eradicating zebra mussels in the reservoir and pipeline infrastructure is imperative to providing water service deliveries to customers.

The eradication of zebra mussels in San Justo Reservoir and pipeline infrastructure in San Benito County is two-fold and involves: (1) the treatment of San Justo Reservoir using muriate of potash (potash or potassium chloride); and (2) the treatment of the Hollister Conduit in combination with District-owned water delivery conveyances (pipeline system) using potash. It is important that this two-fold eradication be implemented concurrently, as eradicating zebra mussels in the reservoir without eradicating them in the pipeline, and vice versa, would allow re-infestation of both appurtenant infrastructures.

Benefits of the eradication include:

- Able to maximize benefits & utility Congress originally intended by bringing CVP to San Benito County
- Reservoir can be re-opened for recreational and public use
- Can use river percolation facilities to offset regional groundwater overdraft
- Eliminate regional contamination risk
- Eliminate CVP & pipeline contamination risk
- Eliminate risk of ecological damage to aquatic environment
- Proven eradication method
- Good public relations for govt.

Technical Feasibility

Discuss the technical feasibility of the project. If possible, cite references that contain information about the proposed project and detail the technical feasibility of the project.

Pajaro River Watershed IRWM Regional Goals & Objectives

Put an X next to any goal that the proposed project will achieve.

Water Supply

- | | |
|---|---|
| X | 1. Meet 100% of M&I and agriculture demands (both current and future conditions) in wet to dry years including the first year of a drought. |
|---|---|

**Pajaro River Watershed Integrated Regional Water Management Plan Update
Project Solicitation Form**

0	2. Meet 85% M&I and 75% agriculture demands (both current and future conditions) in second and subsequent years of a drought.
	3. Identify and address water supply needs of disadvantaged communities in the Pajaro River Watershed.
	4. Implement water conservation programs to reduce M&I and agricultural water use consistent with SBx7-7 and CVPIA.
	5. Maximize the use of recycled water during the irrigation season and expand other uses of recycled water.
	6. Optimize the use of groundwater and aquifer storage.
X	7. Maximize conjunctive use opportunities including interagency conjunctive use.
X	8. Optimize and sustain the use of existing import surface water entitlements from the San Felipe Unit.
	9. Maximize the beneficial use of existing local water supplies while protecting existing surface water rights.

Water Quality

x	1. Meet or exceed all applicable groundwater, surface water, wastewater, and recycled water quality regulatory standards.
	2. Identify and address the drinking water quality of disadvantaged communities in the Pajaro River Watershed.
	3. Protect groundwater resources from contamination including salts and nutrients.
	4. Address impacts from surface water runoff through implementation of Best Management Practices or other surface water management strategies.
	5. Meet or exceed delivered water quality targets established by recycled water users.

**Pajaro River Watershed Integrated Regional Water Management Plan Update
Project Solicitation Form**

Flood Protection

	1. Implement flood management strategies throughout the watershed that provide multiple benefits.
	2. Reach consensus on the Pajaro River Risk Reduction Project necessary to protect existing urban areas and infrastructure from flooding and erosion from the
	3. Work with stakeholders to preserve existing flood attenuation by implementing land management and conservation strategies throughout the watershed.
	4. Develop approaches for adaptive management to minimize maintenance requirements and protect quality and availability of water while preserving ecologic
0	5. Provide community benefits beyond flood protection such as public access, open space, recreation, agriculture preservation and economic development.

Environmental Protection and Enhancement

X	1. Address opportunities to enhance the local environment and protect and/or restore natural resources, in cooperation with landowners, when developing water
X	2. Improve biological and cultural resources, including riparian habitats, habitats supporting sensitive plant or animal species and archaeological/historic sites when
	3. Address opportunities to protect, enhance, or restore habitat to support Monterey Bay National Marine Sanctuary marine life in conjunction with water
X	4. Address opportunities for open spaces, trails, parks along creeks and other recreational projects in the watershed that can be incorporated with water

Integration and Coordination

Put an X next to any Resource Management Strategies (RMS) that the proposed project will address.

Reduce Water Demand	Agricultural Water Use Efficiency	
	Urban Water Use Efficiency	
Improve Operational Efficiency and Transfers	Conveyance - Delta	
	Conveyance - Regional/local	X
	System Reoperation	
	Water Transfers	
Increase Water Supply	Conjunctive Management & Groundwater Storage	X
	Desalination	
	Precipitation Enhancement	
	Recycled Municipal Water	
	Surface Storage - CALFED	
	Surface Storage - Regional/local	X
Improve Water Quality	Drinking Water Treatment & Distribution	X
	Groundwater Remediation /Aquifer Remediation	

**Pajaro River Watershed Integrated Regional Water Management Plan Update
Project Solicitation Form**

	Matching Quality to Use	
	Pollution Prevention	X
	Salt & Salinity Management	
	Urban Runoff Management	
Improve Flood Management	Flood Risk Management	
Practice Resources Stewardship	Agricultural Lands Stewardship	
	Economic Incentives (Loans, Grants, & Water Pricing)	0
	Ecosystem Restoration	X
	Forest Management	
	Recharge Area Protection	0
	Water-Dependent Recreation	X
	Watershed Management	
Other Strategies	Crop Idling for Water Transfers	
	Dewvaporation or Atmospheric Pressure Desalination	
	Fog Collection	
	Irrigated Land Retirement	
	Rainfed Agriculture	
	Waterbag Transport/Storage Technology	
Please describe:	Eradication of an invasive aquatic species infesting San Justo Reservoir, the Hollister Conduit, and District-owned pipeline sub-systems	

List the projects that were integrated to develop a single proposed project, if applicable.

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List the agencies and organization that are working together to implement the project.

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**Pajaro River Watershed Integrated Regional Water Management Plan Update
Project Solicitation Form**

Climate Change Mitigation and Adaptation

Put an X next to any climate change adaptation or mitigation strategy the proposed project will contribute to.

Adaption Strategies

X	Improve water supply reliability
	Expand conjunctive use of multiple water supply sources
	Increase water use and/or reuse efficiency
	Provide additional water supply
X	Promote water quality protection
	Reduce water demand
	Advance / expand recycled water use
	Promote urban runoff reuse
	Address sea level rise
X	Address other anticipated climate change impacts
	Improve flood control
X	Promote habitat protection
	Establish migration corridors
	Re-establish river-floodplain hydrologic continuity
	Re-introduce anadromous fish populations to watershed
	Enhance and protect watershed forest and meadow systems

Please describe:

Mitigation Strategies

	Increase water use efficiency or promote energy-efficient water demand reduction
	Improve water system energy efficiency
	Advance / expand recycled water use
	Promote urban runoff reuse
	Promote use of renewable energy sources
	Contribute to carbon sequestration

Please describe:

Does the proposed project reduce regional greenhouse gas emissions and/or improve energy efficiency? If so, explain how.

Social Benefits and Impacts

**Pajaro River Watershed Integrated Regional Water Management Plan Update
Project Solicitation Form**

Does the project provide specific benefits to disadvantaged communities and/or Native American tribal communities? If so, explain.

No

Does the project address any known environmental justice issues?

No

Project Cost

Total Estimated Capital Cost	\$2.5 Million
Annual Operation & Maintenance (O&M) Cost	\$0
Cost Basis (Year)	%
Source(s) of Funding for Capital	
Source(s) of Funding for O&M Cost	
Project Life (years)	5
Provide link to project cost estimate, if available	

Economic Feasibility

Has a benefit:cost or cost effectiveness analysis been completed for your project? If so, please cite reference and briefly summarize. If no economic analysis has been completed for the project, the project may receive zero points out of a possible 100 points for the financial considerations criteria unless the project is a DAC project. If the project is not a DAC project but the B:C ratio is expected to be greater than 1, please provide a justification. The lack of an economic analysis may also affect the project's readiness score.

No.

If known, please provide the Benefit:Cost Ratio.

Provide a detailed discussion of the benefits the project will provide. To the extent possible, quantify changes and benefits (e.g. water quality and water supply benefits) that will result from project implementation; otherwise, describe benefits qualitatively.

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Project Solicitation Form**

- Eliminate CVP & pipeline contamination risk
- Eliminate risk of ecological damage to aquatic environment
- Proven eradication method
- Good public relations for govt.

Project Readiness

Proposed Project Start Date:	Oct-13
Anticipated Project Completion Date:	

Please Indicate the status (pending, in process, complete) of the following.

Project Element	Status	% Complete	Estimated Completion Date
<i>Feasibility Study</i>	Complete	100	
<i>Preliminary design</i>		50	
<i>CEQA/NEPA</i>		100/90	
<i>Permit Acquisition</i>		90	
<i>Construction Docs</i>		0	