

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

PROJECT OVERVIEW

General Project Information

Project Title:	South County Recycled Water Pipeline - Short-Term CIP Implementation
Project Location:	Gilroy
Estimated Cost:	\$19,981,000

Brief Project Description (1 to 2 sentences):

This project completes construction of the South County Recycled Water Master Plan Short-term CIP to increase delivery capacity by about 900 AFY and improve infrastructure reliability. The short-term CIP includes construction of approximately 16,000 feet of 16-inch diameter pipeline, approximately 24,000 feet of 30-inch diameter pipeline, a second 3 million gallons of onsite treated recycled water storage capacity (for a total of 6 million gallons), and an additional 6 mgd of distribution pumping capacity (for a total of 9 mgd of new capacity).

Project Proponent Information

Contact Name:	Emmanuel Aryee
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Other participating agencies/organizations (if applicable):

South County Regional Wastewater Authority, City of Gilroy

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.

SCVWD, SCRWA, Gilroy, and Morgan Hill completed the South County Recycled Water Master Plan in 2004 for expanding the use of tertiary treated recycled water. The master plan included three capital improvement program phases. The immediate-term CIP has been completed. The short-term CIP includes looping and expanding the existing system by constructing a new recycled water pipeline extending from the SCRWA facility to Christmas Hill Park and an extension off the existing system. The short-term CIP includes construction of approximately 16,000 feet of 16-inch diameter pipeline, approximately 24,000 feet of 30-inch diameter pipeline, a second 3 million gallons of onsite treated recycled water storage capacity (for a total of 6 million gallons), and an additional 6 mgd of distribution pumping capacity (for a total of 9 mgd of new capacity). New customers include the Gilroy Sports Park, Glen Loma Development, and Cintas Corporation.

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

An extension from the existing recycled water pipeline to the Gilroy Sports Park has been completed, as has the first 1/2-mile of new recycled pipeline from the SCRWA facility. The next phase of work includes extending the new recycled water pipeline from Southside Drive to the Sports Park (which will loop the system provide redundancy and additional capacity) and an extension to Cintas Corporation. The last phase of work will be to extend the new recycled water pipepline through the Glen Loma Development to Christmas Hill Park and add additional storage and pumping capacity. The master plan estimated the the short-term CIP will increase recycled water use by about 900 AFY at build-out.

The project reduces demands on groundwater in the Llagas Groundwater Subbasin and is part of the SCVWD 2012 Water Supply and Infrastructure Master Plan.

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.

The project was evaluated as part of the 2004 South County Recycled Water Master Plan. http://www.cityofgilroy.org/cityofgilroy_files/city_hall/community_development/engineering/master_plans/SouthCountyRecWatMP.pdf. The challenges with the project are matching recycled water expansion with development, as well as utility conflicts in the preferred alignment. A programmatic EIR has been completed, as has the project-level EIR for extending the new pipeline from the SCRWA facility to the Sports Park.

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.
X	2. Meet 85% M&I and 75% agriculture demands (both current and future conditions) in second and subsequent years of a drought.
X	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.
X	5. Maximize the use of recycled water during the irrigation season and expand other uses of recycled water.
0	6. Optimize the use of groundwater and aquifer storage.
X	7. Maximize conjunctive use opportunities including interagency conjunctive use.
	8. Optimize and sustain the use of existing import surface water entitlements from the San Felipe Unit.

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

	9. Maximize the beneficial use of existing local water supplies while protecting existing surface water rights.
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Water Quality

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| 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. |
| X | 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

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| | 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 100- |
| | 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 and |
| | 5. Provide community benefits beyond flood protection such as public access, open space, recreation, agriculture preservation and economic development. |

Environmental Protection and Enhancement

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| | 1. Address opportunities to enhance the local environment and protect and/or restore natural resources, in cooperation with landowners, when developing water management |
| | 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 supply management |
| | 4. Address opportunities for open spaces, trails, parks along creeks and other recreational projects in the watershed that can be incorporated with water management |

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	
	System Reoperation	
	Water Transfers	
Increase Water Supply	Conjunctive Management & Groundwater Storage	X
	Desalination	
	Precipitation Enhancement	
	Recycled Municipal Water	X
	Surface Storage - CALFED	
Improve Water Quality	Surface Storage - Regional/local	
	Drinking Water Treatment & Distribution	
	Groundwater Remediation /Aquifer Remediation	
	Matching Quality to Use	X

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

	Pollution Prevention	
	Salt & Salinity Management	
	Urban Runoff Management	
Improve Flood Management	Flood Risk Management	
Practice Resources Stewardship	Agricultural Lands Stewardship	
	Economic Incentives (Loans, Grants, & Water Pricing)	X
	Ecosystem Restoration	
	Forest Management	
	Recharge Area Protection	
	Water-Dependent Recreation	
	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:	The project is part of SCVWD's conjunctive management program and helps maintain groundwater storage. The project provides water that is of quality for its intended to use and preserves potable water for potable uses.	

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.

SCVWD, SCRWA, Gilroy, United States Bureau of Reclamation

**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

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

Please describe:

Mitigation Strategies

<input type="checkbox"/>	Increase water use efficiency or promote energy-efficient water demand reduction
<input type="checkbox"/>	Improve water system energy efficiency
<input checked="" type="checkbox"/>	Advance / expand recycled water use
<input type="checkbox"/>	Promote urban runoff reuse
<input type="checkbox"/>	Promote use of renewable energy sources
<input type="checkbox"/>	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

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

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

There are 11 DAC blocks, with a total population of about 14,000, in the Llagas Subbasin. This project will help maintain water supply and water quality throughout the subbasin.

Does the project address any known environmental justice issues?

Project Cost

Total Estimated Capital Cost	\$19,981,000
Annual Operation & Maintenance (O&M) Cost	\$20,000
Cost Basis (Year)	2012
Source(s) of Funding for Capital	Local agency water utility funds; federal grant
Source(s) of Funding for O&M Cost	Local agency water utility funds
Project Life (years)	years; Pumps - 20 years
Provide link to project cost estimate, if available	The District's CIP (http://www.valleywater.org/CIP.aspx) has information on estimated costs. See Water Supply section.

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.

The estimated cost per acre-foot for the Short-term CIP (in 2004 \$) is \$1,180 per AF. The cost effectiveness of the project is currently being evaluated.

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.

At build-out, the project will provide approximately 900 AFY of recycled water. Other benefits included reduced wastewater discharge at the SCRWA facility and, potentially, less recycled water discharge to the Pajaro River during wet weather.

Project Readiness

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

Proposed Project Start Date:	In process
Anticipated Project Completion Date:	2020

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

Project Element	Status	% Complete	Estimated Completion Date
<i>Feasibility Study</i>	Complete	100%	2004
<i>Preliminary design</i>	In progress	10%	2016
<i>CEQA/NEPA</i>	In progress	50%	2016
<i>Permit Acquisition</i>	In progress	10%	2016
<i>Construction Docs</i>	In progress	10%	2016