

**STATE WATER RESOURCES CONTROL BOARD
CLEANUP AND ABATEMENT ACCOUNT (CAA)
FUNDING REQUEST FORM**

Send the completed form and attached documentation to via mail or email to:

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APPLICANT INFORMATION

Agency Name: (maximum of 40 characters)	San Jerardo Housing Cooperative Inc.
Address:	24500 Calle El Rosario, Salinas, CA 93908
Agency Phone Number:	831-424-1947
Agency Representative:	Horacio Amezquita, Manager
Region:	Central Coast Water Board
Region Representative:	Angela Schroeter
Representative Phone Number:	805-542-4644, aschroeter@waterboards.ca.gov

PROJECT INFORMATION

Name of Project:	San Jerardo Waste Water Improvement Project	Project Start and End Dates:	November 2009 June 2010
Project Location:	24500 Calle El Rosario San Jerardo, CA 93908		
Funding Amount:	Approximately \$ 630,500		

PURPOSE OF REQUEST

1) Purpose of Request (attach additional sheet if needed): The San Jerardo Housing Cooperative is requesting funding for waste water system improvements necessary to prevent continued intrusion of nitrates and trichloropropane into the aquifer. The ground water pumped from wells on site produces concentrations of contaminants exceeding State and Federal regulations for nitrates and trichloropropane levels. Over a period of at least nine years, these contaminants have accumulated in the wastewater treatment ponds and into leachfields for the system. Additional information regarding the proposed solution and costs are attached as Scope of Work and Project Budget.

2) Background: The San Jerardo Cooperative consists of housing for low income farmworker families on a 33 acre site in rural Monterey County. The Cooperative, the first such development in the State of California, includes 60 member owned units, four rentals, a community room, child care center and soccer fields. The residents have experienced health impacts from water contamination including rashes, sores and hair loss. EPA filed suit against the water system owner for violations of the federal Clean Water Act. The County of Monterey became involved in the drinking water project because of public health concerns. The history of court actions is summarized in the Scope of Work. As of this date there are no known plans at EPA or the County to address contaminants in the waste water effluent or residual solids. Proposed improvements are described in the justification section of the Scope of Work. The community does not have the resources to fund the project and does not qualify for most wastewater programs.

3) Impact to community or surrounding areas in regards to water quality: Proposed improvements will benefit the San Jerardo community through reduction in nitrate and trichloropropane discharge. Reuse or recycling of treated wastewater would benefit the community by providing an alternate source of water for grounds upkeep and enable the residents to use soccer fields throughout the year. Recycled water would substitute for water from the new well site, reducing operating costs to pump, store and maintain the water system. Within a two mile radius there are a number of single family residences and two small drinking water systems that depend on wells as the source of water supply. Continued contamination of the water supply from groundwater discharge would potentially affect these households.

Item No. 12
October 23, 2009 Meeting
San Jerardo Cooperative
Attachment 3

4) What is the waste being addressed by this project? The drinking water produced by wells on the San Jerardo site has consistently produced test results exceeding California regulatory standards for nitrates and 1,2,3 trichloropropane. Nitrate concentrations are approximately double the Maximum Contaminant Level set in Title 22 Section 64431 of California Code of Regulations. Trichloropropane was found to exist at levels more than 13 times higher than public notification levels.

5) List any responsible party: The San Jerardo residential community is surrounded by agricultural production lands that have been exposed to chemical based fertilizers and pesticides over many decades. A specific source of contaminants cannot be identified, however, the cumulative effect on groundwater quality in the vicinity is severe and has increased over time.

6) Will any of these funds be used for Regional Board oversight? YES NO
If YES, how much?

SUPPORTING DOCUMENTATION ATTACHMENTS

- Regional Board Resolution or proof of Regional Board support Attached
- Scope of Work Attached
- Project Budget Attached

State Board Decision for \$100,000 and Below:

Approved Denied

Deputy Director

Date

Deputy Director's Recommendation for Funding (over \$100,000):

Deputy Director

Date

CLEANUP AND ABATEMENT ACCOUNT
SCOPE OF WORK
SAN JERARDO HOUSING COOPERATIVE
WASTEWATER TREATMENT PROJECT

JUSTIFICATION:

The purpose of the project is to address wastewater system deficiencies in order to prevent potential discharge of additional contaminants into the groundwater of the San Jerardo Housing Cooperative and the surrounding community. The ground water is known to contain extremely high levels of nitrates and Trichloropropane, substances that pose an imminent threat to public health and safety.

Although a plan is in place to provide a new source of water supply for the residents, the Cooperative has been unable to proceed with wastewater system repairs due to funding constraints. The Cooperative was developed to provide housing for low income farmworker households. Many funding programs are inaccessible because of the legal structure of the Cooperative (for-profit corporation). Others require debt service payments which are not within the means of the community because the residents are unable to afford rate increases at current income levels. Therefore, the Cleanup and Abatement Account provides the only source of funding for the necessary improvements.

SCOPE OF WORK:

The proposed Scope of Work consists of waste removal, treatment system upgrades, monitoring well installation and planning for water conservation and reuse measures as further detailed below.

Solids removal:

Take Pond 1 out of service in order to stabilize and dispose of solid wastes, then dredge to increase capacity near the inlet pipe to create a solids settling and digestion cell. Install a lift station and flow metering at the existing upstream manhole to allow flexibility in isolating ponds for further maintenance.

Pond lining:

Install clay liner at Pond 1 to minimize percolation of partially treated effluent after the pond is refilled. Repeat removal and lining for Pond 2. Repeat for Ponds 3 and 4 as needed.

Pond stabilization:

Stabilize the sides of all ponds with rip rap or concrete after leveling and compaction to prevent bank erosion from wave action and rising and falling treatment levels. Raise the embankment at Pond 4 to the level of other ponds. Install shut-off valves between each pond. Install or repair system pipeline components as needed.

Surface aeration:

Install surface aerators in Ponds 1 and 2. Specify solar powered aerators as an alternative in bid documents and select solar option if cost is competitive.

Monitoring well installation:

Install up-gradient and down-gradient ground water monitoring wells to meet current regulatory requirements.

Repairs:

Complete repairs to the system that become evident upon draining the ponds and connecting new system components.

Rapid infiltration basins and /or leach field expansion:

Engineer to determine preferred method of capacity expansion based on current requirements and costs. Selected method to be included in bid documents as funding permits.

Water conservation and reuse planning:

Consulting Engineer to prepare a draft report regarding water conservation and reuse with recommendations for immediate implementation and long term planning. Cost estimates and potential benefits including cost recovery shall be required for each alternative. At minimum, the consulting Engineer shall address non-food irrigation, soccer field and grounds water re-use, grey water system suitability and resident conservation measures. A solar power component shall include research and reporting of no cost or low cost measures such as those used in municipal utility system public/private partnerships.

San Jerardo Waste Water Project Budget

Description	Amount
Project Construction Costs	
Construction Costs	\$ 350,000
Construction Contingency	\$ 47,500
Subtotal	\$ 397,500
Project Planning Costs	
Design Engineering and Bid/Sbmittal Process	\$ 80,000
Planning & Project Management, Labor Standards	\$ 40,000
Environmental	\$ 20,000
Legal, Permits and Fees	\$ 8,000
Subtotal	\$ 148,000
Construction Phase Costs	
Construction Engineering	\$ 20,000
Project Management during Construction	\$ 20,000
Training and Operations Manual Update	\$ 1,500
Consultants:	
Labor Standards, Biologist and Archeologist	\$ 20,000
Subtotal	\$ 61,500
Soft Cost Contingencies	\$ 10,475
Water Conservation & Re-use Study	
Consultant Costs	\$ 20,000
Subtotal	\$ 20,000
Total	\$ 637,475