

**Antelope Valley Integrated Regional Water Management Plan
Call for Projects
Project Identification Form**

Note: Please refer to the *Department of Water Resources, Integrated Regional Water Management, Proposition 84 and 1E Guidelines, November 2012* for additional information about the items requested below (http://www.water.ca.gov/irwm/grants/docs/Guidelines/GL_2012_FINAL.pdf).

General Information

Project Name: **BCSD Arsenic Removal Treatment Plant**

Project Sponsor: **Boron Community Services District**

Has Project Sponsor Adopted or will adopt the AV IRWMP? **The adoption of the AV IRWMP by the Boron Community Services District Board of Directors took place on January 17, 2013.**

If joint Project, Other Partners: **N/A**

Project Contact Person: **Peter Lopez or Natalie Dadey**

Phone: **(760) 762-6127**

FAX: **(760) 762-6508**

Email: **boroncsd@yahoo.com**

Project Description

Project Description (1-2 Sentences): **The goal of the project is to treat the local groundwater supply to remove the arsenic contaminate to achieve both state and federal compliance and to provide clean and safe drinking water to our consumers.**

Project Integration (Describe how the project does or could integrate with other projects in the Region by describing synergies or linkages between projects that result in added value or require coordinated implementation or operation): **The surrounding water districts – Desert Lake Community Services District, North Edwards Water District, Edgemont Acres Mutual Water Company, and Aerial Acres Water District – have all been known to have the same arsenic contaminate in their groundwater supplies, which has forced them to also look into options of some form for arsenic removal treatment.**

Project Source (Cite plan(s) that describe or develop the Project (e.g., Watershed Master Plan, Recycled Water Master Plan, etc.)): **The Scope of Work and Associated Budget completed by Provost & Pritchard Consulting Group on behalf of the Boron Community Services District for the former State Revolving Fund Grant submittal.**

Project Location

Description of Project Location: **Five miles west of the town of Boron, located to the north off of Highway 58 on Gephart Road. The Well No. 15 site is located on the west side of Gephart Road.**

Latitude/Longitude - info available at: <http://geocoder.us>

Lat: **35°00'48.85"N** Long: **-117°44'22.14" W**

Project Benefits (please provide a brief description and quantified benefits, if available)

Water Supply: New Supply Created = **100 – 1000 AFY** or Check One: 1-100 AF 100-1,000 AF 1,000+ AF

Water Quality improved: **100 – 1000AF** Area Drained and/or: **N/A** Volume Treated: **100 – 1000AF**

Public Access, Open Space, Habitat, Recreation (acres created/restored): **N/A**

Does the Project Offset Water Supply from the Sacramento-San Joaquin Delta: **Yes.**

Does the Project provide flood management/protection? **N/A**

Does the Project reduce energy consumption? **Yes. We will require a lot less, if any at all, pumped water from the Sacramento-San Joaquin Delta.**

Does the Project reduce greenhouse gas (GHG) emissions? **Yes. We will require less energy to pump from our own groundwater source as opposed to the energy that is currently required to pump water from the Sacramento-San Joaquin Delta.**

Other (Describe "x" Amount of Benefit):

A. Indicate how the Project contributes to the IRWM Plan objectives

Select the IRWM Plan objectives the project will help to achieve in the table below.

Objectives	Select
Water Supply	
Provide reliable water supply to meet the Antelope Valley Region's expected demand between now and 2035	X
Establish a contingency plan to meet water supply needs of the Antelope Valley Region during a plausible disruption of SWP deliveries	
Stabilize groundwater levels	

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Water Quality	
Provide drinking water that meets regulatory requirements and customer expectations	X
Protect and maintain aquifers	
Protect and maintain natural streams and recharge areas	
Maximize beneficial use of recycled water	
Flood Management	
Reduce negative impacts of stormwater, urban runoff, and nuisance water	
Optimize the balance between protecting existing beneficial uses of stormwater and capturing stormwater for new uses	
Environmental Resources Management	
Preserve open space and natural habitats that protect and enhance water resources and species in the Antelope Valley Region	
Land Use Planning/Management	
Maintain agricultural land use within the Antelope Valley Region	
Meet growing demand for recreational space	
Improve integrated land use planning to support water management	

B. How the Project is related to Resource Management Strategies (as defined by the California Water Plan Update 2009)

Select the Resource Management Strategies the Project will employ to help meet the IRWM Plan objectives.

Resource Management Strategies	Select
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	X
Desalination	
Precipitation enhancement	
Recycled municipal water	
Surface storage – CALFED	
Surface storage – regional/local	
Improve Water Quality	
Drinking water treatment and distribution	X
Groundwater and aquifer remediation	
Matching water quality to use	
Pollution prevention	
Salt and salinity management	
Urban runoff management	
Practice Resources Stewardship	
Agricultural lands stewardship	
Economic incentives (Loans, grants, and water pricing)	
Ecosystem restoration	
Forest management	
Land use planning and management	
Recharge areas protection	
Water-dependent recreation	
Watershed management	
Improve Flood Management	
Flood risk management	
Other	
Crop idling for water transfers	

Resource Management Strategies	Select
Dewvaporation or atmospheric pressure desalination	
Fog collection	
Irrigated land retirement	
Rainfed agriculture	
Waterbag transport/storage technology	

C. Technical Feasibility of the Project

Provide a list of studies/reports/documents that have been prepared for the Project: **The Scope of Work and Associated Budget completed by Provost & Pritchard Consulting Group on behalf of the District for the former State Revolving Fund Grant submittal.**

Explain why there is sufficient technical documentation to support each of the benefits claimed above:

Describe the level of information known about the geologic conditions, hydrology, ecology or other aspects of the system where the project is located:

Explain data gaps that require additional studies to be developed for the project:

D. Specific Benefits to Critical DAC Water Issues

Describe how the Project addresses water supply and water quality needs of Disadvantaged Communities (DACs)¹: **The Boron Community Services District serves water to the residents of a Disadvantaged Community.**

E. Specific Benefits to Critical Water Issues for Native American Tribal Communities

Describe how the Project addresses water supply and water quality needs of Native American tribal communities: **N/A**

F. Environmental Justice Considerations²

Explain any environmental justice issues related to implementation of the Project: **The project will provide clean and safe drinking water to residents of a Disadvantaged Community.**

G. Project Costs and Financing

Estimated capital costs: **\$427,000** or check rough estimate: <\$100K \$100K-\$1M \$1M-\$10M >\$10M
Project Design Only!

Estimated Project annual operations and maintenance costs: **\$(Unknown at this time)**

Estimated year of construction and year of Project startup: **2015**

Provide a copy of (or link to) the cost estimate, if available: **The Scope of Work and Associated Budget completed by Provost & Pritchard Consulting Group.**

Explain funding sources/financing for the Project (e.g., State funding, regional assessments, CIP, etc.): **This does not apply due to Boron Community Services District serving a Disadvantaged Community.**

H. Economic Feasibility

Has a cost-effectiveness or benefit-cost analysis been performed for the Project? **No.**

Provide a copy of (or link to) the economic analysis, if available:

I. Project Status (i.e., readiness to proceed)

Project Status (Check one): **Conceptual** Design Ready for Construction CEQA Compliance

J. Strategic Considerations for IRWM Plan Implementation

Can the Project be integrated with other regional projects? **The surrounding water districts – Desert Lake Community Services District, North Edwards Water District, Edgemont Acres Mutual Water Company, and Aerial Acres Water District – have all been known to**

¹ Disadvantaged Communities are defined as communities with an annual mean household income that is less than 80 percent of the Statewide annual median household income.

² Environmental justice seeks to redress inequitable distribution of environmental burdens (i.e., pollution, industrial facilities) and access to environmental good (i.e., clean water and air, parks, recreation, etc.).

have the same arsenic contaminate problems to their groundwater supplies, which has forced them to also look into options of some form of arsenic removal treatment.

K. Contribution of the Project in Adapting to the effects of Climate Change

Explain how the Project addresses climate change: **N/A**

Has any kind of climate change analysis been completed? If so, please provide a copy of (or link to) the analysis: **N/A**

L. Contribution of the Project in Reducing GHG Emissions as Compared to Project Alternatives

Explain how the Project will aid the IRWM region in reducing GHG emissions: **Upon project completion, Boron Community Services District will require less energy to pump from their own groundwater source as opposed to the energy that is currently required to pump water from the Sacramento-San Joaquin Delta.**

AV IRWM Review Factors for Acceptance of New Projects into IRWM Plan

Basic Project Information	Criteria and Comments
General Information	Information complete?
Project Description	Information complete?
Project Location	Information complete?
Project Benefits	Is a minimum of one quantifiable benefit identified?

Review Factor	Criteria and Comments
IRWMP Objectives ¹	At least one Antelope Valley IRWMP objective addressed?
Resource Management Strategies ²	At least one Resource Management Strategy addressed?
Technically Feasible	At least one study/report/document identified that justifies technical feasibility?
DAC Benefits	Information complete?
Native American Tribal Community Benefits	Information complete?
Environmental Justice Considerations	Information complete?
Project Costs and Financing	Information complete?
Economic Feasibility	Information complete (i.e., specifies whether cost-effectiveness or benefit-cost analysis has been performed)?
Readiness to Proceed	Is the project status identified (i.e. conceptual, design, ready for construction, CEQA Compliance)?
Benefits to Multiple Stakeholders	Information complete?
Climate Change Adaptation/GHG Mitigation	Information complete?

¹ See 2007 Antelope Valley IRWMP, Section 4 Objectives for more information.

² See California Water Plan Update 2009, <http://www.waterplan.water.ca.gov/cwpu2009/index.cfm>