

Yuba IRWMP-BVID-02

Project Solicitation Form¹

Please fill out the following information to the best of your ability/knowledge. Once the project has been received and a preliminary review completed, the project team will work with you to develop additional information.

Project Sponsor Contact Information

Lead Agency/Organization	<i>Browns Valley Irrigation District</i>
Name of Primary Contact(s)	<i>Ryan McNally</i>
Mailing Address	<i>P.O. Box 6, Browns Valley, CA 95918</i>
Email Address	<i>ryan@bvid.org</i>
Phone (###) ###-####	<i>(530) 743-5703</i>
Project Partners/Collaborators	N/A

General Project Information

Project Title	Pumpline Canal Improvement Project
Project Total Budget, based on current knowledge	\$285,000
Project Funding Match, if any	Labor
Total Project Funding Request	\$285,000
Can a detailed cost estimate be provided upon request?	Yes
Project Location (map if available)	<i>Latitude: 39 deg 16' 44.23" N</i> <i>Longitude: 121 deg 18 '42.30" W</i>
City/Community	Browns Valley
Watershed/subwatershed	Yuba River/Dry Creek
Groundwater Basin	N/A
Project Type (highlight in gray all that apply)	Conceptual Feasibility Study Study/Assessment Planning Engineering/Design Permitting CEQA/NEPA Facility Construction Restoration Monitoring Best Management Practices Acquisition Demonstration/Pilot Project

¹ Completed Project Solicitation Forms should be sent via email to Katie Burdick at admin@burdico.net

Project Description

Write a narrative briefly describing the project components and/or characteristics (maximum of 300 words).

The project would include:

- Final engineering and design
- Installation of an additional 33" at Culvert 5 (on the property known as the "Gee Ranch")
- Relocating the trash rack leading to those culverts further upstream to increase inflow from 64 cfs to 69 cfs.
- Installation of three (3) additional 33" culverts at Culverts 1, 2 and 4; and one (1) 36" culvert at Culvert 6
- Regarding the canal embankments to increase freeboard immediately upstream of Highway 20, Joines Road, Culvert 7, Spring Valley Road and the stream crossing just below Spring Valley Road

These improvements are expected to yield a flow increase of up to 74 cfs.

Briefly describe the need for the project and the desired outcomes/deliverables (maximum of 200 words).

The District is currently capable of diverting 64 cfs, but demand timing in each spring and fall has increasingly created a "bottle neck" and a subsequent waiting list for our rice farmers. This constraint has also led the District to be hesitant toward new landowners who have proposed farming additional acreage.

In 2015, an independent consultant (Mead and Hunt) was retained to conduct a study and deliver a technical memo on how to best increase the capacity to address increasing demand on the Pumpline Canal. They explored reasonable opportunities toward increasing our diversion capacity from the Yuba River to customers in our lower district, as well as provide more flexibility when managing our percentage of the Accord Groundwater Substitution Program. As with the Sicard Pipeline project, the ability to provide more surface water to our lower district would also increase land value and productivity.

As a result of this study three (3) alternatives were identified. Following evaluation, it was determined that the following project (Alternative 2) would best serve the needs of the District, at a cost of \$285,000. An additional alternative (Alternative 3) has been identified at a cost of just over \$1.78 million. Alternative 3 assumed an increase in flow to 74 cfs (same as Alternative 2) at \$1,780,000. Alternative 3 is significantly more expensive than Alternative 2, primarily because of the large volume of rock excavation and tunneling required to construct the channel and pipe across Highway 20. However, it also allows for potential expansion in the future.

While, Alternative 3 is the District's preferred long-term solution because it would provide the most growth potential in the future and would be the best to position the District if the Pumpline Canal were to expand in any way; Alternative 2 is clearly the most cost-effective solution, at approximately \$285,000 and is the alternative for which BVID is seeking assistance.