

Yuba IRWMP – MU-01

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	Brophy Irrigation District
Name of Primary Contact(s)	Al Lassaga
Mailing Address	1445 Butte House Rd #A, Yuba City, CA 95993
Email Address	allassaga@syix.com
Phone (###) ###-####	(530) 682-2020
Project Partners/Collaborators	All YWA Member Units: Ramirez Water District, Brown’s Valley Irrigation District, Cordua Irrigation District, Hallwood Irrigation Company, Brophy Water District, Wheatland Water District, South Yuba Water District, Dry Creek Mutual Water Company

General Project Information

Project Title	Water Supply & Fish Passage (WSFP) Feasibility Study
Project Total Budget, based on current knowledge	\$200,000 to \$250,000 (Rough Estimate)
Project Funding Match, if any	Unknown
Total Project Funding Request	\$250,000 (or final estimate from consultant)
Can a detailed cost estimate be provided upon request?	Not at this time
Project Location (map if available)	Narrows Power House to Daguerre Point (By Penstock)
City/Community	Yuba River Corridor
Watershed/subwatershed	Yuba River
Groundwater Basin	N/A
Project Type (highlight in gray all that apply)	Conceptual <input checked="" type="checkbox"/> Feasibility Study <input type="checkbox"/> Study/Assessment <input type="checkbox"/> Planning <input type="checkbox"/> Engineering/Design <input type="checkbox"/> Permitting <input type="checkbox"/> CEQA/NEPA <input type="checkbox"/> Facility Construction <input type="checkbox"/> Restoration <input type="checkbox"/> Monitoring <input type="checkbox"/> Best Management Practices <input type="checkbox"/> Acquisition <input type="checkbox"/> 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).

Improve Water Reliability, Fish Passage and Power Generation: The feasibility study would address the following initial project, as well as other project elements/components that would achieve similar objectives.

Water being released from YWA's Narrows 2 powerhouse would be channeled into a stilling well section to remove air before entering a penstock. Water would flow down gradient, via gravity, to a powerhouse constructed at or near Daguerre Point Dam. Water discharged from the powerhouse would be released into the existing North irrigation canals. Water for South irrigation would be channeled into a stilling well section before entering a new pipeline buried on the Eastside of Daguerre Point Dam. The face of the dam would protect the pipe from damage during high- water events. This pipeline would deliver water into the existing South Districts conveyance system through the Yuba Goldfields.

The Project would also make electricity that is available during the summer power load period. This type of hydroelectric power generation is the primary source of flexible generation used by California Independent System Operation (California ISO) to regulate the fluctuations of the electric grid in California.

I. Project Rationale/Issues Statement

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

This Project is needed because the existing in-river diversions have been increasingly impacted by extreme winter flows leading to channel movement that has impacted water deliveries and created regular permitting problems and on-going maintenance costs. It is likely as California's weather becomes more extreme and variable that these problems will become more frequent and that our ability to conduct the needed in-channel work to maintain the water delivery system will be increasingly constrained by ESA-related fisheries issues. Therefore, there is a need for a more sustainable and reliable solution to ensure the essential irrigation deliveries that rely on these existing diversions are maintained.

Desired Project Outcomes – to be evaluated via Feasibility Study:

1. Water reliability to all eight (8) of YWA Member Units
2. Enhancement of Fish Passage on Lower Yuba River
3. Enhancement of Fish Passage past Daguerre Dam
4. Elimination of three points of diversion and three fish screens on the Yuba River
5. Eliminate fish screen maintenance, flood repairs and gravel removal
6. Eliminate permitting by regulatory agencies for fish screens and channel maintenance
7. The South fish screen project would be eliminated and offset 25 million towards project
8. Small Hydrogenation facility would help pay for project funding over (X amount years)
9. Water efficiency (Power and Irrigation) conservation through closed penstock system
10. SCADA would be used for monitoring flow releases and deliveries in real time
11. Most of the water released into the Lower Yuba River would be dedicated for fish
12. Placement of woody debris and trees below Narrows in the Lower Yuba River would not affect water diversions and would improve fish habitat