

## Yuba IRWMP NYWD-12 Project Solicitation Form<sup>1</sup>

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	North Yuba Water District (NYWD)
Name of Primary Contact(s)	Jeff Maupin
Mailing Address	PO BOX 299 Brownsville, CA.95919
Email Address	jmaupin@nywd.org
Phone (###) ###-####	(530) 675-2567
Project Partners/Collaborators	

### General Project Information

Project Title	Water Storage Tank Liners
Project Total Budget, based on current knowledge	\$96,500.00
Project Funding Match, if any	0% - SDAC
Total Project Funding Request	\$96,500.00
Can a detailed cost estimate be provided upon request?	Yes
Project Location (map if available)	
City/Community	Rackerby & Forbestown
Watershed/subwatershed	
Groundwater Basin	Hard rock aquifer
Project Type (highlight in gray all that apply)	Conceptual Feasibility Study Study/Assessment Planning Engineering/Design Permitting CEQA/NEPA <b>Facility Construction and/or Repair</b> Restoration Monitoring Best Management Practices Acquisition Demonstration/Pilot Project

<sup>1</sup> Completed Project Solicitation Forms should be sent via email to Katie Burdick at [admin@burdico.net](mailto:admin@burdico.net)

## Project Description

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

This project will line (coat) the inside of two of NYWD's failing water storage tanks. Price includes all labor, liner, and rental of a temporary water storage facility.

### I. Project Rationale/Issues Statement

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

Although both Rackerby and Forbestown Tanks are on the current IRWMP project list for replacement (via 100,000+/- gallon tanks), lining of these tanks will ensure an adequate and reliable water supply for both of these communities.

Recoating or replacement has been recommended for more than 12 years, based on a 2007 dive report (available upon request). Both tanks were bought used and reconditioned in the 1970's. Experts have indicated that there is a very high risk of complete/catastrophic tank failure now. Frequent repairs to plug emerging holes and keep them from rapidly expanding are currently costing the District yearly expense. A recent draft report completed by CRWA, indicates that the District loses roughly 50% of its treated water through a variety of leaks within the system of which the tanks are clearly a contributing part. Since 2012 Forbestown Tank has had approximately 50 plugs installed, and 80 in the Rackerby Tank. They have both become unsafe for the divers to do maintenance. Please see attached report from Big valley Divers.

The liners are a faster and lower-cost temporary fix to alleviate the possibility of a catastrophic tank failure in the near term. These repairs are predicted to last up to 20 years, thereby allowing the District some time to initiate the replacement process without the risk of catastrophic tank failure. Lining the tanks now will both reduce water wastage and ensure greater tank stability into the near future. Tank replacement (e.g. design, engineering, construction, etc.) will take long enough and be expensive enough (1 million \$ plus) that the near term vulnerability of the tanks is of critical concern. Current Quote for the Rackerby Tank lining is \$43,178.08. Forbestown Tank quote is \$42,796.27. Rental of a temporary potable water storage for each tank is \$3331.60. The remaining is for Scada removal, and reinstallation.



**Big Valley Divers Inc.**  
**P O Box 3284**  
**Chico Ca. 95927**  
**Off (530) 898-1110**  
**Fax (530) 893-1836 Cell (530) 521-7797**  
**[bvd@sunset.net](mailto:bvd@sunset.net) – [www.bigvalleydivers.com](http://www.bigvalleydivers.com)**

North Yuba Water District  
P.O. Box 299  
Brownsville, CA 95919

RE: Forbestown & Rackerby Tanks

On September 17<sup>th</sup>, 2018, Big Valley Divers installed 10 bolts on Forbestown Tank through rubber patches and 13 on Rackerby Tank. Since 2012, we have installed approximately 50 bolt plugs in Forbestown Tank and 80 in the Rackerby Tank. It has also been recommended since 2012 to replace or re-coat tanks and replace hatch. The tanks are in need of immediate re-lining or replacement. The rust scale is very heavy on the interior walls. The wall thickness has deteriorated to the point that the water pressure is blowing holes in the side walls of the tanks. It has become unsafe for a diver to enter the tanks because of the total failure of the walls of the tanks. Continued maintenance is unsafe with the current conditions of the structural integrity of the walls of the tank, in the opinion of Big Valley Divers. Verification should be done by Tony with North Yuba Water District.

Please feel free to contact John with Big Valley Divers at 530-521-7797 for further questions or to schedule a meeting.