

Yuba IRWMP – YWA-24

Project Short 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	Yuba Water Agency GSA
Name of Primary Contact(s)	Scott Matyac, Water Resources Manager
Mailing Address	1220 F Street, Marysville, CA 95901
Email Address	smatyac@yubawater.org
Phone (###) ###-####	(530) 741-5017
Project Partners/Collaborators	City of Marysville GSA, Cordua Irrigation District GSA
YWA Liaison	Scott Matyac

General Project Information

Project Title	Yuba Subbasins Airborne Electromagnetic Survey
Project Total Budget, based on current knowledge	\$1,600,000
Project Funding Match, if any	<<>>
Total Project Funding Request	<<>>
Can a detailed cost estimate be provided upon request?	Yes
Project Location (map if available)	See attached
City/Community	City of Marysville, City of Wheatland, unincorporated communities of Hallwood, Las Quintas community on Trainer Hills, Olivehurst, Linda, and Plumas Lake.
Watershed/subwatershed	Dry Creek (South Yuba Subbasin), Honcut Creek, Hutchinson Creek-Reeds Creek, Lower Bear River, Lower Feather River, Yuba River
Groundwater Basin	North Yuba Subbasin (DWR 5-21.60) and South Yuba Subbasin (DWR 5.21-61)
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

¹ Completed Project Short Forms should be sent via email to Katie Burdick at admin@burdico.net and Elizabeth Herrera at Elizabeth.herrera@fishsciences.net

	Acquisition Demonstration/Pilot Project
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Project Description

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

The Airborne Electromagnetic Survey of the Yuba Subbasins would provide approximately 3,000-line kilometers of flight lines spaced at 200 meters to complete a detailed survey to support improved hydrogeologic understanding and improved modeling capabilities. The flight lines will be oriented perpendicular to the direction of general sediment deposition and known geologic structures which results in an approximate east-west orientation. Detailed flight line planning will use historical data and other inputs and will be completed in the early phases of the project. Additional north-south lines, acting as tie lines, will be added to provide geological control.

I. Project Rationale/Issues Statement

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

Groundwater levels in the Yuba Subbasins are currently monitored to evaluate long-term health of the Yuba Subbasins, localized short-term impacts of pumping, relationships with surface water resources, and relationships with GDEs. Groundwater level monitoring is conducted by DWR, YWA, Beale AFB, urban water purveyors, and agricultural water purveyors. While the Yuba Subbasins have a comprehensive groundwater level monitoring well network, improvement of the monitoring network will assist in maintaining sustainable groundwater management in the Subbasins. Use of airborne electromagnetic methods will augment surface lithology information learned through the monitoring well installation or to reduce the number of monitoring wells needed to characterize conditions.

Figure 1. Project Area: North and South Yuba Subbasins

