

Yuba IRWMP – YWA-20

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
Name of Primary Contact(s)	Scott Matyac
Mailing Address	Yuba Water Agency 1220 F Street Marysville, CA 95901
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Project Partners/Collaborators	YWA Member Units

General Project Information

Project Title	Boundary Measurement Improvement Project
Project Total Budget, based on current knowledge	\$315,000
Project Funding Match, if any	
Total Project Funding Request	\$315,000
Can a detailed cost estimate be provided upon request?	Yes
Project Location (map if available)	Yes
City/Community	YWA Member Units
Watershed/subwatershed	Yuba, Bear, Feather
Groundwater Basin	North and South Yuba Subbasins
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 Short Forms should be sent via email to Katie Burdick at admin@burdico.net **and** Elizabeth Herrera at Elizabeth.herrera@fishsciences.net

Project Description

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

The Measurement Improvement Plan, part of the Agricultural Water Management Plan, recommends major modifications to a number of the boundary measurement sites to achieve ideal measurement conditions. However, due to the complexities of the sites (e.g. natural waterways, potential environmental restrictions, etc.), the improvement approach will be divided into two phases. The first phase (Phase I), focuses on establishing the measurement site with minimal modifications, providing an opportunity to reduce potential costs for unnecessary additional construction efforts. Phase II involves the implementation of major channel modifications (e.g. lined sections, modified approaches, culverts, etc.) based on a feasibility study of each site to assess the need and optimum approach for further improvements to allow for a more ideal/accurate measurement site.

Tasks 1 & 2 – Northside & Southside Boundary Outflow Measurement and Telemetry Improvements - Phase I Improvements

Phase I improvements are intended to provide continuous real-time remote monitoring to the identified boundary outflow site to some degree of accuracy, with minor (if any) modifications to the site. The accuracy of the phase I improvements will be analyzed, tuned, and assessed following the installations.

Tasks 3 & 4 – Northside & Southside Boundary Site Feasibility Study for Additional Construction - Phase II Feasibility Study

If Phase I improvements fail to yield sufficiently accurate and reliable flow data, the feasibility study will provide details for additional construction on a per site basis. The main focus of Phase II improvements will be to modify the channel to provide improved measurement conditions via these subtasks and deliverables.

I. Project Rationale/Issues Statement

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

The purpose of this project is to improve accuracy of drain outflow measurement sites to support the ongoing efforts of YWA and the member units to improve water management and control water losses to spillage and tailwater.

This work will create the following list of deliverables by Sub-Task:

- 1.1: Measurement site location selection for Jack’s Slough, Honcut Creek Inflow, and Honcut Creek Outflow
- 2.1: Measurement site location selection for Interceptor at Alferos, and Interceptor at Bear River
- 1.2(2.2): Radio path study results and possible repeater station location selection
- 2.3: Detailed product descriptions of measurement site design
- 2.4: Equipment specification list for purchase and procurement
- 2.5: SCADA-integrated boundary outflow measurement site
- 2.6: Summary of meter configuration, accuracy, and existing hydraulic complications, for each boundary outflow measurement site
- 3.1 (4.1): Conceptual-level descriptions of project alternatives
- 3.4 (4.4): Impact area estimate
- 3.5 (4.5): Detailed product description
- 3.6 (4.6): Selection of measurement site improvement approaches

- 3.7 (4.7): Feasibility level site plans and estimates
- 3.8 (4.8): Technical Memorandum (TM) summarizing results and recommendations