

## Yuba IRWMP – YWA-22

### Project Short 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	USFWS AFRP and Yuba Water Agency
Name of Primary Contact(s)	Paul Cadrett / Willie Whittlesey
Mailing Address	850 S Guild Ave Suite 105, Lodi, CA 95240 / 1220 F Street, Marysville, CA 95901
Email Address	<a href="mailto:paul_cadrett@fws.gov">paul_cadrett@fws.gov</a> / <a href="mailto:wwhittlesey@yubawater.org">wwhittlesey@yubawater.org</a>
Phone (###) ###-####	(209) 649-0898 / (530) 741-5026
Project Partners/Collaborators	cbec inc. ecoengineering, Cramer Fish Sciences, South Yuba River Citizens League, Teichert Materials, Western Aggregates

#### General Project Information

Project Title	Hallwood Side Channel and Floodplain Restoration Project (Hallwood Project)
Project Total Budget, based on current knowledge	~ \$7,800,000. The Project is multi-phase, multi-year. Cost estimates are draft and subject to changes based on implementation progression, river conditions, and market demand for aggregate (see Project Description).  Phase 1A/Phase 1B 2019 – 2020 ~ \$3,950,000 Phase 2: 2021 ~ \$1,490,000 Phase 3: 2022 ~ \$1,055,000 Phase 4: 2023 ~\$1,320,000
Project Funding Match, if any	<u>Realized to Date:</u> \$1,680,000 in USFWS AFRP Grant Funds which supported planning, permitting, design, and pre-project monitoring. 50% (\$840,000) of this was attributed to Phase 1, and the remainder was split evenly between Phases 2, 3, 4 (\$280,000 each). <u>Future Potential Funds yet-to-be Allocated to Project:</u> USFWS AFRP Grant Funds for Phase 1 (~\$850,000 for earthwork and ~\$200,000 for post-project monitoring) and Phase 2 (~\$610,000 for earthwork and ~\$200,000 for post-project monitoring), and potentially Phase 3 dependent on conversations with CVPIA (\$1,100,000 in FY21 or FY22).
Total Project Funding Request	Phase 2 (2021): \$1,490,000 (Phase 2 Total) - \$280,000 (USFWS Planning, Design, Permits) - \$810,000 (USFWS AFRP Grant Funds) = \$400,000 planned request to CDFW Fisheries Restoration Grants Program in 2020 PSN
Can a detailed cost estimate be provided upon request?	Yes, with best estimates of costs at present.
Project Location (map if available)	Yuba River, river miles 8.5~11 immediately below Daguerre Point Dam. See attached Figure.

<sup>1</sup> Completed Project Short Forms should be sent via email to Katie Burdick at [admin@burdico.net](mailto:admin@burdico.net) **and** Elizabeth Herrera at [Elizabeth.herrera@fishsciences.net](mailto:Elizabeth.herrera@fishsciences.net)

City/Community	Hallwood/Marysville
Watershed/subwatershed	Lower Yuba River
Groundwater Basin	Lower Yuba River
Project Type (highlight in gray all that apply)	<ul style="list-style-type: none"> <li>Conceptual</li> <li>Feasibility Study</li> <li>Study/Assessment</li> <li>Planning</li> <li>Engineering/Design</li> <li>Permitting</li> <li>CEQA/NEPA</li> <li>Facility Construction</li> <li>Restoration</li> <li>Monitoring</li> <li>Best Management Practices</li> <li>Acquisition</li> <li>Demonstration/Pilot Project</li> </ul>

## Project Description

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

The Hallwood Project is designed to restore and enhance ecosystem processes with a primary focus on juvenile salmonid rearing habitat to increase the natural production of fall-run and spring-run Chinook salmon and Central Valley steelhead. Phase 2 includes removing approximately 800,000 cubic yards of sediment from the Middle Training Wall and surrounding floodplains in the upper portion of the site, enhancing 34 acres. A network of seasonal channels will be constructed in the training wall footprint, with riparian planting on the floodplain and along channel margins.

The Phase 2 schedule is in part driven by aggregate demand in the planned Phase 2 implementation year (2021). The project partner and landowner, Teichert Materials, will remove the main impediment to lateral connectivity between the Yuba River and its floodplain, the middle training wall. Phase 2 restoration grading progress (this proposal) is dependent on removal of overlying ~800,000 cubic yards of sediment.

### I. Project Rationale/Issues Statement

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

The Project directly addressed the doubling goal of the USFWS AFRP, the National Marine Fisheries Service (NMFS) priority action to increase the quantity and quality of ESA-listed Chinook Salmon and CCV steelhead rearing areas, and test hypotheses regarding a variety of habitat enhancement techniques and subsequent response of juvenile salmonids and non-native predatory species to restored floodplain and off-channel habitats. Our monitoring plan is aligned with an adaptive management approach and will track floodplain and side channel ecosystem development to answer questions about the processes affecting fish use and foraging success, prey production, native vegetation recruitment, and the relationship of these factors to project design and implementation. The project is not intended to recreate a fixed historic condition and is intended to evolve given the flows in the Yuba River. The project also results in reduced water surface elevations and lower velocities at the floodway margins, providing an auxiliary flood benefit. The partnership with local stakeholders such as aggregate mining facilities will set a precedent for low cost restoration on future similar projects in the Central Valley, and provides economic benefits to the local economy, and benefits to the recreational fishery industry.