

**FSRP LAN 29 Critical Repair Project: Right Bank Bear River Setback Levee
RD817-01**

I. Project Sponsor Contact Information

Lead Agency/Organization	Reclamation District 817
Name of Primary Contact(s)	Joe Conant
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Project Partners/Collaborators	Currently in discussions with DWR/FESSRO to determine cost share partners

II. General Project Information

Project Title	FSRP LAN29 Critical Repair Project – Right Bank Bear River Setback Levee
Project Total Budget	\$7.8 million
Project Funding Match	TBD- currently determining possible cost share partners with DWR
Project Funding Request	TBD
Can a detailed cost estimate be provided upon request?	Feasibility cost estimate available that needs to be refined to a more detailed cost estimate level.
Project Location:	Bear River Right Bank LM 2.00 – 3.06
Latitude	38.99064
Longitude	-121.46360
Could you provide a map of the project location including boundaries upon request?	Yes
Project Location Description:	Right bank levee of the Bear River approximately 1.3 miles upstream of Forty Mile Road in RD 817
County	Yuba
City/Community	Wheatland
Watershed/subwatershed	Bear River
Groundwater Basin	Yuba Groundwater Basin
Project Type	Planning Facility Construction Restoration

III. Project Description

This site is identified as a DWR Point of Interest DWR_RD817_02_0240_LM02.63 and is classified as a Tier 1 Critical site in the State Flood System Repair Program (FSRP). The site was a near-break site in 1986 along multiple areas of narrow, steep levee comprised mostly of sand. The upper end of the site is where the levee abruptly changes direction and narrows the channel. This condition exacerbates the high velocities already present and induces additional erosion and stability concerns.

This project would set the levee back approximately 150 feet to remove the channel constriction. The new levee would be constructed to the same elevation with minimum 3 horizontal to 1 vertical side slopes to current engineering standards for levee construction. The project would require approximately 9.5 acres of walnut orchard to be acquired and would create the opportunity for ecosystem restoration opportunities along the channel.

IV. Project Rationale/Issues Statement

The project addresses the following identified regional issues:

- Upgrading infrastructure;
- Mitigating urban, agricultural and sediment run-off;
- Improving flood management;
- Enhancing Working Landscapes;
- Adapting to climate change.

V. Goals/Objectives/Performance Metrics

Goals Addressed by the Project	<p>Goal 1: This project protects water supplies by upgrading flood management infrastructure and promoting disaster preparedness.</p> <p>Goal 2: The project protects water quality by mitigating for impacts from flood and in managing for urban, agricultural and sediment run-off.</p> <p>Goal 3: The project promotes environmental stewardship by creating an opportunity for ecosystem restoration.</p> <p>Goal 4: The project enhances regional economic development by supporting agricultural opportunities in the levee setback area.</p> <p>Goal 5: The project protects public safety by upgrading aging flood management infrastructure, promoting disaster preparedness and reducing the costs and difficulty of achieving regulatory compliance.</p> <p>Goal 6: The project addresses climate vulnerabilities by improving flood protection in a state identified critical site.</p>
Objectives Addressed by	1.4 Promote disaster preparedness and conservation planning efforts;

Project	<p>1.5 Maintain and enhance flood control infrastructure to protect water supplies;</p> <p>2.1 Protect and improve water quality by mitigating for urban, agricultural and sediment run-off;</p> <p>2.2 Minimize water quality impacts from flood, effluent discharge and wastewater spills;</p> <p>3.4 Enhance floodplain function and habitat to achieve multiple flood management benefits while maintaining public safety;</p> <p>4.5 Protect and restore working landscapes, particularly ranch/ag lands, and the watershed benefits they provide;</p> <p>5.1 Improve integrated flood management to ensure emergency preparedness, increase flood protection and enhance regional and inter-regional collaboration;</p> <p>6.3 Increase system flexibility and resiliency to adapt to climate variability;</p>
What performance metrics will be used to demonstrate that objectives are being met? Wherever possible, provide a quantitative measurement reflecting successful project outcomes.	TBD- depending on available funding to realize multiple benefits in addition to existing flood control outcomes that would increase flood protection.

VI. Resource Management Strategies

Practice Natural Resources Stewardship	
Agricultural Lands Stewardship	Yes – by improving flood protection to existing agricultural lands
Ecosystem Restoration	Yes – by adding 9.54 acres of land to the floodway
Improve Flood Management	
Flood Risk Management	Yes – primary project objective

VII. Statewide Priorities

Climate Change Response Actions

- Adaptation to Climate Change: Establish migration corridors, re-establish river-floodplain, hydrologic continuity, re-introduce anadromous fish populations to upper watersheds, enhance and protect upper watershed forests and meadow systems

Expand Environmental Stewardship

- Expand environmental stewardship to protect and enhance the environment by improving watershed, floodplain, and instream functions and to sustain water and flood management ecosystems

Practice Integrated Flood Management

- Improved flood protection
- More sustainable flood and water management systems
- Enhanced floodplain ecosystems

Climate Change Adaptation

Setback levees provide additional corridor for natural river migration, flood system resiliency by increasing the system capacity, and provide lands that can be used for habitat restoration.

GHG Emissions Reduction

Construction-related activities comply with the requirements of the Feather River Air Quality Management District, whose standards exceed many other air quality districts’ in the state.

Additionally, all disturbed areas during construction will be re-vegetated with California native grasses promoting carbon sequestration.

VIII. Project Status and Schedule

Project Stage	Description of Activities in Each Project Stage	Planned/Actual Start Date	Planned/Actual Completion Date
Planning	Conceptual		
Design	Conceptual		
Environmental Documentation (CEQA/NEPA)	TBD		
Permitting	TBD		
Tribal Consultation (if not applicable, indicate by N/A)	N/A		
Construction/ Implementation	Pending Funding		

IX. Project Technical Feasibility

a. List the water planning documents that specifically identify this project.	
b. List the adopted planning documents the proposed project is consistent with (e.g., General Plans, UWMPs, GWMPs, Water	

Master Plans, Habitat Conservation Plans, etc.)	
c. List technical reports and studies supporting the feasibility of this project.	Pre-Feasibility Report, Leveed Area LAN29, Best Slough, Flood System Repair Project, Contract 4600008101, Task Order U112 (URS, July 2013)