

Yuba IRWMP – RD784-22
Project Short Form¹

Please fill out the following information to the best of your ability/knowledge. Contact Keri Rinne with questions: keri.rinne@gmail.com

PROJECT SPONSOR INFORMATION

Lead Agency/Organization	Reclamation District No. 784
Name of Primary Contact(s)	Patrick Meagher
Mailing Address	1594 Broadway St., Arboga, CA 95961
Email Address	Patrick@rd784.org
Phone (###) ###-####	O: 530.742.0520 C: 530.308.4152
Project Partners/Collaborators	None
YWA Liaison	Sami Nall

GENERAL PROJECT INFORMATION

Project Title	Pump Rehabilitations – Pump Stations 7 and 9
Project Total Budget (Attach detailed budget, if available)	\$150,000
Budget Breakdown	Planning/Design Budget: N/A Implementation Budget: \$75,000
Project Funding Match, if any	\$15,000
Total Project Funding Need	\$135,000
Project Location (Attach map if available)	See attached maps
Watershed/subwatershed	Yuba
Groundwater Basin (Select one)	<input type="checkbox"/> North Yuba Subbasin <input checked="" type="checkbox"/> South Yuba Subbasin <input type="checkbox"/> Not Applicable
Supports Yuba Groundwater Sustainability Plan (GSP)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Measurable Objective(s) Benefit (Answer If ‘Yes’ above) (check <i>all</i> that apply)	<input type="checkbox"/> Chronic lowering of groundwater levels <input type="checkbox"/> Reduction of groundwater storage <input type="checkbox"/> Degraded water quality <input type="checkbox"/> Land subsidence <input type="checkbox"/> Depletions of interconnected surface waters
Project Priority (Select one)	<input checked="" type="checkbox"/> High <input type="checkbox"/> Medium <input type="checkbox"/> Low
Project Type (check <i>all</i> that apply)	<input type="checkbox"/> Conceptual <input type="checkbox"/> Feasibility Study <input type="checkbox"/> Study/Assessment <input type="checkbox"/> Planning <input type="checkbox"/> Engineering/Design <input type="checkbox"/> Permitting <input type="checkbox"/> CEQA/NEPA <input checked="" type="checkbox"/> Facility Construction

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	<input type="checkbox"/> Restoration <input type="checkbox"/> Monitoring <input type="checkbox"/> Best Management Practices <input type="checkbox"/> Acquisition <input type="checkbox"/> Demonstration/Pilot Project
Legal Authority	

Please select the *status* of the CEQA/NEPA/Permitting for this project:

CEQA (Select one)	<input checked="" type="checkbox"/> Exempt <input type="checkbox"/> Not Started <input type="checkbox"/> Initial Study <input type="checkbox"/> EIR <input type="checkbox"/> Determination <input type="checkbox"/> Unknown if Required
NEPA (Select one)	<input checked="" type="checkbox"/> Exempt if Required <input type="checkbox"/> Not Started <input type="checkbox"/> Environmental Assessment <input type="checkbox"/> EIS <input type="checkbox"/> Record of Decision <input type="checkbox"/> Unknown
Permitting (Select one)	<input checked="" type="checkbox"/> Not Required <input type="checkbox"/> Not started <input type="checkbox"/> Identified <input type="checkbox"/> Consultations Complete <input type="checkbox"/> Application Submitted <input type="checkbox"/> Complete <input type="checkbox"/> Unknown if Required

PROJECT DESCRIPTION

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

The primary components of the project will be to pull, inspect, rebuild/repair a total of 4 pumps and motors (2 at each site), then re-install. Specific activities required for the project are as follows:

- Mobilize crane to each pump station site, remove pumps, then transport to contractor’s shop for further inspections.
- Pump rehabilitation work will include repairs or replacement of head & tube shafts, bearing assemblies, miscellaneous hardware, gaskets, and impellers.
- Rehabilitation of the pump motors will include motor rewinding, replacement of miscellaneous hardware, and testing.

PROJECT RATIONALE/ISSUES STATEMENT

Briefly describe the need for the project and the desired outcomes/deliverables (Suggest ~ 200 words). Include an explanation of benefits and how they would be evaluated.

Pump Stations 7 and 9 are both approximately 50 years old. Each site includes two pumps with motors. Although all pumps currently function, it will be highly beneficial to inspect, and rebuild, all pump shafts and motors to ensure continued reliability. Both pump stations are responsible for evacuating stormwater released from the North Beale Road commercial corridor area and from residential neighborhoods throughout the West Linda area.

This project will benefit the entire West Linda community by providing continuously reliable stormwater pumps, which are necessary to minimize localized flooding.

The project deliverables will include 2 rebuilt pumps with motors at each pump station.

ATTACHMENTS:

- Task based budget
- Map of project location

Task-Based Project Budget:

Task	Short Description	Budget
1	Remove pumps, motors, transport to contractor shop, inspect and provide reports.	\$15,000
2	Rebuild Motors and Pumps.	\$120,000
3	Reinstall pumps and motors	\$15,000
	Total	\$150,000



RD784 Chestnut Pond

State Hwy 65/70

RD784 Pump Station No. 7

Chestnut Rd.



1985

Island Ave



Pump Station 9

Google Earth

Yuba IRWMP – RD784-23
Project Short Form¹

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PROJECT SPONSOR INFORMATION

Lead Agency/Organization	Reclamation District No. 784
Name of Primary Contact(s)	Patrick Meagher, General Manager
Mailing Address	1594 Broadway, Arboga, CA 95961
Email Address	Patrick@rd784.org
Phone (530) 742-0520	
Project Partners/Collaborators	N/A
YWA Liaison	Ryan McNalley

GENERAL PROJECT INFORMATION

Project Title	Cenedella Bend Erosion Site Risk Analysis
Project Total Budget (Attach detailed budget, if available)	\$142,000
Budget Breakdown	Planning/Design Budget: Implementation Budget: \$142,000
Project Funding Match, if any	\$0.00
Total Project Funding Need	\$142,000
Project Location (Attach map if available)	See attached map
Watershed/subwatershed	Yuba
Groundwater Basin (Select one)	<input checked="" type="checkbox"/> North Yuba Subbasin <input type="checkbox"/> South Yuba Subbasin <input type="checkbox"/> Not Applicable
Supports Yuba Groundwater Sustainability Plan (GSP)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Measurable Objective(s) Benefit (Answer If 'Yes' above) (check <i>all</i> that apply)	<input type="checkbox"/> Chronic lowering of groundwater levels <input type="checkbox"/> Reduction of groundwater storage <input type="checkbox"/> Degraded water quality <input type="checkbox"/> Land subsidence <input type="checkbox"/> Depletions of interconnected surface waters
Project Priority (Select one)	<input checked="" type="checkbox"/> High <input type="checkbox"/> Medium <input type="checkbox"/> Low
Project Type (check <i>all</i> that apply)	<input type="checkbox"/> Conceptual <input type="checkbox"/> Feasibility Study <input checked="" type="checkbox"/> Study/Assessment <input type="checkbox"/> Planning <input type="checkbox"/> Engineering/Design <input type="checkbox"/> Permitting <input type="checkbox"/> CEQA/NEPA <input type="checkbox"/> Facility Construction

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Legal Authority	

Please select the *status* of the CEQA/NEPA/Permitting for this project:

CEQA (Select one)	<input type="checkbox"/> Exempt <input type="checkbox"/> Not Started <input type="checkbox"/> Initial Study <input type="checkbox"/> EIR <input type="checkbox"/> Determination <input checked="" type="checkbox"/> Unknown if Required
NEPA (Select one)	<input type="checkbox"/> Exempt <input type="checkbox"/> Not Started <input type="checkbox"/> Environmental Assessment <input type="checkbox"/> EIS <input type="checkbox"/> Record of Decision <input checked="" type="checkbox"/> Unknown if Required
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PROJECT DESCRIPTION

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

The project scope will include a risk analysis of the Cenedella Bend Erosion site on the Lower Yuba River. The project components will include:

- Development of an RFQ and selecting consultants
- A review of hydraulic information
- A review of geomorphic information
- Geotechnical investigation
- Review of the Yuba County Slow Rise Flood Plan, focusing on how it may impact RD784.
- Summary Report, Conclusions, Recommendations, and if appropriate, outline of possible actions.

PROJECT RATIONALE/ISSUES STATEMENT

Briefly describe the need for the project and the desired outcomes/deliverables (Suggest ~ 200 words). Include an explanation of benefits and how they would be evaluated.

The Cenedella Bend erosion site is located along the south bank of the Lower Yuba River near Marysville and approximately 3.5 miles upstream of the Feather River confluence. Over the course of several winter seasons, high water levels have caused several feet of accelerated bank erosion and several acres of land loss along the embankments of the Lower Yuba River near Marysville, primarily at Cenedella Bend. Since 2017, additional high-water events have occurred, which raises RD784 concerns that continued erosion could shift flooding patterns into a relict sand channel to the south and endanger local infrastructure, including the RD784 levee along the south side of the Yuba River.

The desired outcome and deliverables will include a summary report, conclusions, recommendations, and, if appropriate, an outline of possible actions to protect the RD784 levee.

ATTACHMENTS:

- Task based budget
- Map of project location

Cenedella Bend Erosion Site Risk Analysis

Task-Based Project Budget:

Task	Task Description	Budget
1	Send out RFQ, select consultants, and award agreements.	\$3,000.00
2	Review of hydraulic information in Dr. Pasternack Study	\$35,000.00
3	Review of Geomorphic Information in Dr. Pasternack Study	\$15,000.00
4	Geotechnical Investigation into potential erosion, scour, seepage, or other impacts.	\$35,000.00
5	Review Yuba County Slow Rise Flood Plan, focusing on how it may impact RD784.	\$5,000.00
6	Summary Report, Conclusions, Recommendations, and if appropriate, outline of possible actions.	\$25,000.00
7	Management and Administration	\$24,000.00
	Total	\$142,000.00



Cenedella Bend Erosion Site

Yuba River

Yuba River

RD784 Levee

Google Earth

1985

Imagery Date: 4/16/2022 lat 39.150794° lon -121.544426° elev 0 ft eye alt 17236 ft