

**Pump Station 10 Improvements**  
**RD784-06**

**I. Project Sponsor Contact Information**

Lead Agency/Organization	Reclamation District 784
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**II. General Project Information**

Project Title	Pump Station 10 Improvements
Project Total Budget	\$3.7 Million
Project Funding Match	This project provides flood protection for the disadvantaged communities of Olivehurst and Linda.
Project Funding Request	\$3.7 Million
Can a detailed cost estimate be provided upon request?	This is an approximate estimate only. If funds are awarded the project will be bid out with more cost details available after bid results are in.
Project Location:	1220 Murphy Rd., Olivehurst CA 95961
Latitude	39.0956° N
Longitude	121.5522° W
Could you provide a map of the project location including boundaries upon request?	Yes
Project Location Description:	Located in Olivehurst CA, approximately 1 mile north of the intersection of Feather River Blvd. and Ella Ave., then 0.5 miles east of Feather River Blvd.
County	Yuba County
City/Community	Olivehurst
Watershed/subwatershed	Yuba River
Groundwater Basin	Yuba Groundwater Basin/South Yuba Sub-basin
Project Type	Facility Construction

**III. Project Description**

Phase I: Installation of a remote access “Point, Tilt, Zoom” security/ monitoring camera. (\$25,000)

Phase IA: Conduct a groundwater recharge assessment to determine the efficacy of groundwater recharge (area protection). This pump station is also well positioned in the District to provide recycled

storm water for agricultural and municipal uses. Therefore, during this phase of the project, the feasibility of reclaiming storm water for agricultural and municipal use will be considered, assessed and determined. (\$150,000)

Phase II: Install storm drain line from current pump site to the Unit 9 Levee. (\$2.5 Million)

Phase III: Install the Waterside Levee Headwall at the water discharge outtake area (\$100,000)

Phase IV: Construct the Water Side conveyance ditch leading to the Feather River (\$1,000,000)

**IV. Project Rationale/Issues Statement**

This project replaces aging drainage infrastructure which enhances flood management, and protects water conveyance, several wastewater management and ground water recharge facilities that serve Linda and Olivehurst, two Disadvantaged Communities (DACs). Additionally, the project considers the possibility of reclaiming storm water for agricultural and municipal reuse. The project specifically addresses the following regional issues:

- Upgrading infrastructure;
- Mitigating urban, agricultural and sediment run-off;
- Water use efficiency/water conservation;
- Improving flood management;
- Ensuring regulatory compliance;
- Adapting to climate change.

**V. Goals/Objectives/Performance Metrics**

Goals Addressed by the Project	<p><b>Goal 1:</b> This project protects water supplies by upgrading flood management infrastructure and promoting disaster preparedness.</p> <p><b>Goal 2:</b> The project protects water quality by mitigating for impacts from flood and in managing for urban, agricultural and sediment run-off.</p> <p><b>Goal 5:</b> 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><b>Goal 6:</b> The project addresses climate vulnerabilities by improving flood protection.</p> <p><b>Goal 7:</b> The project provides flood protection for the disadvantaged community of Olivehurst.</p>
Objectives Addressed by Project	1.1 Promote and implement policies and practices to increase water use efficiency <i>and</i> water conservation in municipal and agricultural sectors;

	<p>1.2 Promote water conservation and water use efficiency by instituting various techniques including, but not limited to, groundwater recharge, conjunctive management, irrigation efficiencies, municipal water conservation, water recycling and reuse;</p> <p>1.4 Promote disaster preparedness and conservation planning efforts;</p> <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>5.1 Improve integrated flood management to ensure emergency preparedness, increase flood protection and enhance regional and inter-regional collaboration;</p> <p>6.1 Support efforts to reduce greenhouse gas emissions in the region, particularly those related to water management operations;</p> <p>6.3 Increase system flexibility and resiliency to adapt to climate variability;</p> <p>7.2 Prioritize ongoing participation of DACs</p>
<p>What performance metrics will be used to demonstrate that objectives are being met? Wherever possible, provide a quantitative measurement reflecting successful project outcomes.</p>	<ul style="list-style-type: none"> <li>▪ Increased use of irrigation tail water by recycling back to agricultural users whenever possible</li> <li>▪ Increased security and protection of water supply systems</li> <li>▪ Lowering Flood / Danger / Risk</li> </ul>

## VI. Resource Management Strategies

<b>Increase Water Supply</b>	
Conjunctive Management and Groundwater	A policy of retaining water in detention basins at the end of winter seasons for later release or possible groundwater recharge is being considered.
Recycled Municipal Water	Determine feasibility of recycling stormwater for agricultural and municipal use.
<b>Improve Operational Efficiency and Transfers</b>	
Conveyance—Regional/Local	Conveys stormwater to nearby drainage canals that eventually reach the rivers
<b>Improve Water Quality</b>	
Urban Runoff Management	The catch basin captures sediment and miles of drainage canals convey and filter urban stormwater.
Matching Quality to Use	The project aims to determine the feasibility of reclaiming stormwater for non-potable agricultural irrigation.

<b>Practice Natural Resources Stewardship</b>	
Land Use Planning and Management	Part of internal drainage system necessary for development of residential, commercial and industrial lands.
Recharge Areas Protection	Protects basin infrastructures; assesses the facility's contribution to groundwater recharge.
<b>Improve Flood Management</b>	
Flood Risk Management	Internal Drainage Flood Management that protects water treatment, water conveyance and ground water recharge facilities.

## **VII. Statewide Priorities**

### **Drought Preparedness**

- Promote water conservation, conjunctive use, reuse and recycling
- Achieve long term reduction of water use

### **Use and Reuse Water More Efficiently**

- Increase urban and agricultural water use efficiency measures such as conservation and recycling

### **Climate Change Response Actions**

- Adaptation to Climate Change: Use and reuse water more efficiently
- Adaptation to Climate Change: Water management system modifications that address anticipated climate
- Reduce Energy Consumption: Water recycling

### **Practice Integrated Flood Management**

- Better emergency preparedness and response
- Improved flood protection
- More sustainable flood and water management systems

### **Protect Surface and Groundwater Quality**

- Protecting and restoring surface water and groundwater quality to safeguard public and environmental health and secure water supplies for beneficial uses

### **Ensure Equitable Distribution of Benefits**

- Develop multi-benefit projects with consideration of affected disadvantaged communities and vulnerable populations

**Climate Change Adaptation**

Constructing pipe from Pump Station 10 going west and eventually reaching the Feather River enables the surrounding region to handle more storm water during extreme weather events, resulting in more sustainable flood management. Currently, the storm water pumped out of the detention basin is conveyed south through an existing open canal (Lateral 15), eventually reaching another existing pump station. Reconstructing the storm water discharge route would eliminate the need to “double pump” while also saving energy costs. Additionally, the project will consider modifications to allow for reclaiming storm water for agricultural and municipal use contributing to a more reliable water supply in response to projected climate variability and anticipated drought conditions. Also, this pump station has a significant capability to impound water, increasing system flexibility.

**GHG Emissions Reduction**

This project increases energy efficiency and reduces GHG emissions by eliminating redundant pumping that occurs in the existing system.

**VIII. Project Status and Schedule**

<b>Project Stage</b>	<b>Description of Activities in Each Project Stage</b>	<b>Planned/Actual Start Date</b>	<b>Planned/Actual Completion Date</b>
Planning	Complete- part of master drainage plan		
Design	Complete (excepting system modifications related to water recycling)		
Environmental Documentation (CEQA/NEPA)	Refresh		
Permitting	Been reviewed and initial approved but would require some additional permitting based on any design modifications (re-use)		
Tribal Consultation (if not applicable, indicate by N/A)	N/A		
Construction/ Implementation	Pending Funds	Pending Funds	Unknown

**IX. Project Technical Feasibility**

a. List the water planning documents	<ul style="list-style-type: none"> <li>▪ Yuba County General Plan</li> </ul>
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that specifically identify this project.	<ul style="list-style-type: none"> <li>▪ RD 784 Master Drainage Plan</li> </ul>
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.)	<ul style="list-style-type: none"> <li>▪ Yuba County General Plan</li> <li>▪ RD 784 Master Drainage Plan</li> </ul>
c. List technical reports and studies supporting the feasibility of this project.	Studies and assessment included in Master Drainage Plan