



featherriver.org

UPPER FEATHER RIVER IRWM PROJECT INFORMATION FORM

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Please submit by 5:00 p.m. on August 3, 2015, to UFR.contact@gmail.com

Please provide information in the tables below:

I. PROJECT PROPONENT INFORMATION

| | |
|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| Agency / Organization | Plumas Eureka Community Services District |
| Name of Primary Contact | Frank Motzkus, General Manager |
| Name of Secondary Contact | Heather Kotrc, Administrative Manager |
| Mailing Address | 200 Lundy Lane, Blairsden, CA 96103 |
| E-mail | frmotzkus@digitalpath.net |
| Phone | (530) 836-1953 |
| Other Cooperating Agencies / Organizations / Stakeholders | |
| Is your agency/organization committed to the project through completion? If not, please explain | Project completion would be dependent on funding alternatives. |

II. GENERAL PROJECT INFORMATION

| | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Project Title | MS-28: Water Meter Installation |
| Project Category | Water Supply/Water Quality Community Water/Wastewater |
| Project Description (Briefly describe the project, in 300 words or less) | Water Meter Installation The Plumas Eureka CSD "Preliminary Engineering Report for the 2015 Water System Improvements" recommends the installation of water meters throughout the Plumas Eureka community. Approximately 645 radio read meters would be installed and new computer software to monitor/read the system. |
| Project Location Description (e.g., along the south bank of stream/river between river miles or miles from Towns/intersection and/or address): | New water meters will be installed to all service connections within Plumas Eureka CSD's service area. |
| Latitude: | 39° 47' 31.7322" |
| Longitude: | 120° 38' 59.7588" |

III. APPLICABLE IRWM PLAN OBJECTIVES ADDRESSED

For each of the objectives addressed by the project, provide a one to two sentence description of how the project contributes to attaining the objective and how the project outcomes will be quantified. If the project does not address *any* of the IRWM plan objectives, provide a one to two sentence description of how the project relates to a challenge or opportunity of the Region.

| Upper Feather River IRWM Objectives: | Will the project address the objective? | Brief explanation of project linkage to selected Objective | Quantification (e.g. acres of streams/wetlands restored or enhanced) |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|------------------------------------------------------------|----------------------------------------------------------------------|
| Restore natural hydrologic functions. | N/A | | |
| Reduce potential for catastrophic wildland fires in the Region. | N/A | | |
| Build communication and collaboration among water resources stakeholders in the Region. | N/A | | |
| Work with DWR to develop strategies and actions for the management, operation, and control of SWP facilities in the Upper Feather River Watershed in order to increase water supply, recreational, and environmental benefits to the Region. | N/A | | |
| Encourage municipal service providers to participate in regional water management actions that improve water supply and water quality. | N/A | | |
| Continue to actively engage in FERC relicensing of hydroelectric facilities in the Region. | N/A | | |
| Address economic challenges of municipal service providers to serve customers. | N/A | | |
| Protect, restore, and enhance the quality of surface and groundwater resources for all beneficial uses, consistent with the RWQC Basin Plan. | N/A | | |
| Address water resources and wastewater needs of DACs and Native Americans. | N/A | | |

| Upper Feather River IRWM Objectives: | Will the project address the objective? | Brief explanation of project linkage to selected Objective | Quantification (e.g. acres of streams/wetlands restored or enhanced) |
|-----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| Coordinate management of recharge areas and protect groundwater resources. | N/A | | |
| Improve coordination of land use and water resources planning. | N/A | | |
| Maximize agricultural, environmental and municipal water use efficiency. | N/A | | |
| Effectively address climate change adaptation and/or mitigation in water resources management. | N/A | | |
| Improve efficiency and reliability of water supply and other water-related infrastructure. | Yes | Increases water conservation, the ability to identify leaks, and make system repairs to prevent water losses in the distribution system. | Could reduce overall water losses by as much as 15%. |
| Enhance public awareness and understanding of water management issues and needs. | Yes | Customers would have direct feedback on the amount of water they use that would assist them in managing their own water uses. | Overall water savings up to 10% per customer. |
| Address economic challenges of agricultural producers. | N/A | | |
| Work with counties/communities/groups to make sure staff capacity exists for actual administration and implementation of grant funding. | N/A | | |

If no objectives are addressed, describe how the project relates to a challenge or opportunity for the Region:

IV. PROJECT IMPACTS AND BENEFITS

Please provide a summary of the expected project benefits and impacts in the table below or check N/A if not applicable; **do not leave a blank cell**. Note that DWR encourages multi-benefit projects.

| If applicable, describe benefits or impacts of the project with respect to: | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------------------------------------------------------------------------------------------------------------------------|
| a. Native American Tribal Communities | N/A | |
| b. Disadvantaged Communities¹ | N/A | |
| c. Environmental Justice² | N/A | |
| d. Drought Preparedness | | Accurate water usage amounts would assist CSD staff and customers in developing the criteria necessary to reduce water use. |
| e. Assist the region in adapting to effects of climate change³ | N/A | |
| f. Generation or reduction of greenhouse gas emissions (e.g. green technology) | N/A | |
| g. Other expected impacts or benefits that are not already mentioned elsewhere | N/A | |
| <p>¹ A Disadvantaged Community is defined as a community with an annual median household (MHI) income that is less than 80 percent of the Statewide annual MHI. DWR's DAC mapping is available on the UFR website (http://featherriver.org/maps/).</p> <p>² Environmental Justice is defined as the fair treatment of people of all races, cultures, and incomes with respect to the development, adoption, implementation and enforcement of environmental laws, regulations and policies. An example of environmental justice benefit would be to improve conditions (e.g. water supply, flooding, sanitation) in an area of racial minorities.</p> <p>³ Climate change effects are likely to include increased flooding, extended drought, and associated secondary effects such as increased wildfire risk, erosion, and sedimentation.</p> | | |

DWR encourages multiple benefit projects which address one or more of the following elements (PRC §75026(a)). Indicate which elements are addressed by your project.

| | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| a. Water supply reliability, water conservation, water use efficiency | Yes | g. Drinking water treatment and distribution | Yes |
| b. Stormwater capture, storage, clean-up, treatment, management | N/A | h. Watershed protection and management | N/A |
| c. Removal of invasive non-native species, creation/enhancement of wetlands, acquisition/protection/restoration of open space and watershed lands | N/A | i. Contaminant and salt removal through reclamation/desalting, other treatment technologies and conveyance of recycled water for distribution to users | N/A |
| d. Non-point source pollution reduction, management and monitoring | N/A | j. Planning and implementation of multipurpose flood management programs | N/A |
| e. Groundwater recharge and management projects | N/A | k. Ecosystem and fisheries restoration and protection | N/A |
| f. Water banking, exchange, reclamation, and improvement of water quality | N/A | | |

V. RESOURCE MANAGEMENT STRATEGIES

For each resource management strategy (RMS) employed by the project, provide a one to two sentence description in the table below of how the project incorporates the strategy. A description of the RMS can be found in Volume 2 of the 2013 California Water Plan (<http://featherriver.org/2013-california-water-plan-update/>).

| Resource Management Strategy | Will the Project incorporate RMS? | Description of how RMS to be employed, if applicable |
|-----------------------------------------------------|-----------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Reduce Water Demand | | |
| Agricultural Water Use Efficiency | No | |
| Urban water use efficiency | Yes | Establish best management practices for distribution system monitoring. Increase public awareness of water usage. |
| Improve Flood Management | | |
| Flood management | No | |
| Improve Operational Efficiency and Transfers | | |
| Conveyance – regional/local | No | |
| System reoperation | Yes | Meters would assist the operational staff by identifying distribution system leaks in a more timely fashion. |
| Water transfers | No | |
| Increase Water Supply | | |
| Conjunctive management | No | |
| Precipitation Enhancement | No | |
| Municipal recycled water | No | |
| Surface storage – regional/local | No | |
| Improve Water Quality | | |

| Resource Management Strategy | Will the Project incorporate RMS? | Description of how RMS to be employed, if applicable |
|---------------------------------------------|-----------------------------------|------------------------------------------------------|
| Drinking water treatment and distribution | Yes | Improves distribution system operations. |
| Groundwater remediation/aquifer remediation | No | |
| Matching water quality to water use | No | |
| Pollution prevention | No | |
| Salt and salinity management | No | |
| Urban storm water runoff management | No | |
| Practice Resource Stewardship | | |
| Agricultural land stewardship | No | |
| Ecosystem restoration | No | |
| Forest management | No | |
| Land use planning and management | No | |
| Recharge area protection | No | |
| Sediment management | No | |
| Watershed management | No | |
| People and Water | | |
| Economic incentives | No | |
| Outreach and engagement | No | |
| Water and culture | No | |
| Water-dependent recreation | No | |
| Wastewater/NPDES | No | |

Other RMS addressed and explanation:

VI. PROJECT COST AND FINANCING

Please provide any estimates of project cost, sources of funding, and operation and maintenance costs, as well as the source of the project cost in the table below.

| PROJECT BUDGET | | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------|--------------------------------------|------------|
| Project serves a need of a DAC?: No | | | | | |
| Funding Match Waiver request?: No | | | | | |
| Category | | Requested Grant Amount | Cost Share: Non-State Fund Source* (Funding Match) | Cost Share: Other State Fund Source* | Total Cost |
| a. | Direct Project Administration | | | | |
| b. | Land Purchase/Easement | 0 | 0 | 0 | 0 |
| c. | Planning/Design/Engineering / Environmental | 74205 | 24750 | 0 | 99000 |
| d. | Construction/Implementation | 744000 | 248000 | | 992000 |
| e. | Environmental Compliance/ Mitigation/Enhancement | | | | |
| f. | Construction Administration | 59250 | 19750 | 0 | 79000 |
| g. | Other Costs | | | | |
| h. | Construction/Implementation Contingency | 111750 | 37250 | 0 | 149000 |
| i. | Grand Total (Sum rows (a) through (h) for each column) | | | | 1319000 |
| j. | Can the Project be phased? No If yes, provide cost breakdown by phases | | | | |
| | | Project Cost | O&M Cost | Description of Phase | |
| | Phase 1 | | | | |
| | Phase 2 | | | | |
| | Phase 3 | | | | |
| | Phase 4 | | | | |
| k. | Explain how operation and maintenance costs will be financed for the 20-year planning period for project implementation (not grant funded). | | Service rates would be increased to meet O&M costs when needed. | | |
| l. | Has a Cost/Benefit analysis been completed? | | No | | |
| m. | Describe what impact there may be if the project is not funded (300 words or less) | | | | |
| *List all sources of funding. Note: See Project Development Manual, Exhibit B, for assistance in completing this table (http://featherriver.org/documents/). | | | | | |

VIII. PROJECT STATUS AND SCHEDULE

Please provide a status of the project, level of completion as well as a description of the activities planned for each project stage. If unknown, enter **TBD**.

| Project Stage | Check the Current Project Stage | Completed? | Description of Activities in Each Project Stage | Planned/ Actual Start Date (mm/yr) | Planned/ Actual Completion Date (mm/yr) |
|----------------------------------------------------------------------------------------|----------------------------------------|-------------------|-----------------------------------------------------------------------------|-------------------------------------------|------------------------------------------------|
| a. Assessment and Evaluation | <input checked="" type="checkbox"/> | Yes | Water meter installation identified via 2015 Preliminary Engineering Report | TBD | TBD |
| b. Final Design | <input type="checkbox"/> | No | TBD | TBD | TBD |
| c. Environmental Documentation (CEQA / NEPA) | <input type="checkbox"/> | No | TBD | TBD | TBD |
| d. Permitting | <input type="checkbox"/> | No | TBD | TBD | TBD |
| e. Construction Contracting | <input type="checkbox"/> | No | TBD | TBD | TBD |
| f. Construction Implementation | <input type="checkbox"/> | No | TBD | TBD | TBD |
| Provide explanation if more than one project stage is checked as current status | | | | | |

IX. PROJECT TECHNICAL FEASIBILITY

Please provide any related documents (date, title, author, and page numbers) that describe and confirm the technical feasibility of the project. See www.featherriver.org/catalog/index.php for documents gathered on the UFR Region.

| | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| a. List the adopted planning documents the proposed project is consistent with or supported by (e.g. General Plans, UWMPs, GWMPs, Water Master Plan, Habitat Conservation Plans, TMDLs, Basin Plans, etc.). | Plumas Eureka CSD “Preliminary Engineering Report for the 2015 Water System Improvements” completed by Stantec Engineering. |
| b. List technical reports and studies supporting the feasibility of this project. | |
| c. Concisely describe the scientific basis (e.g. how much research has been conducted) of the proposed project in 300 words or less. | |
| d. Does the project implement green technology (e.g. alternate forms of energy, recycled materials, LID techniques, etc.). | No |
| e. Are you an Urban Water Supplier¹? | No |
| f. Are you are an Agricultural Water Supplier²? | No |
| g. Is the project related to groundwater? | Yes Mohawk Valley Groundwater basin |
| ¹ Urban Water Supplier is defined as a supplier, either publicly or privately owned, providing water for municipal purposes either directly or indirectly to more than 3,000 customers or supplying more than 3,000 acre-feet of water annually. ² Agricultural Water Supplier is defined as a water supplier, either publicly or privately owned, providing water to 10,000 or more irrigated acres, excluding the acreage that receives recycled water. | |

Climate Change – Project Assessment Checklist

This climate change project assessment tool allows project applicants and the planning team to assess project consistency with Proposition 84 plan standards and RWMG plan assessment standards. The tool is a written checklist that asks GHG emissions and adaptation/resiliency questions.

Name of project: MS-28: Water Meter Installation

Project applicant: Plumas Eureka Community Services District

GHG Emissions Assessment

Project Construction Emissions

(If you check any of the boxes, please see the attached worksheet)

- The project requires nonroad or off-road engines, equipment, or vehicles to complete.
- The project requires materials to be transported to the project site.
- The project requires workers to commute to the project site.
- The project is expected to generate GHG emissions for other reasons.
- The project does not have a construction phase and/or is not expected to generate GHG emissions during the construction phase.

Operating Emissions

(If you check any of the boxes, please see the attached worksheet)

- The project requires energy to operate.
- The project will generate electricity.
- The project will proactively manage forests to reduce wildfire risk.
- The project will affect wetland acreage.
- The project will include new trees.
- Project operations are expected to generate or reduce GHG emissions for other reasons.

Adaptation & Resiliency Assessment

Water Supply

Describe how the project makes the watershed (more/less) resilient to one or more of the following high priority water supply vulnerability issues:

- Not applicable
- Reduced snowmelt
- Unmet local water needs (drought)
- Increased invasive species

Water Demand

Describe how the project makes the watershed (more/less) resilient to one or more of the following high priority water demand vulnerability issues:

- Not applicable
- Increasing seasonal water use variability
- Unmet in-stream flow requirements
- Climate-sensitive crops
- Groundwater drought resiliency
- Water curtailment effectiveness

Installing water meters will decrease the amount of water used by individuals. They will also help to identify areas of the distribution system that may have water loss issues.

Water Quality

Describe how the project makes the watershed (more/less) resilient to one or more of the following high priority water quality vulnerability issues:

- Not applicable
- Increasing catastrophic wildfires
- Eutrophication (excessive nutrient pollution in a waterbody, often followed by algae blooms and other related water quality issues)
- Seasonal low flows and limited abilities for waterbodies to assimilate pollution
- Water treatment facility operations
- Unmet beneficial uses (municipal and domestic water supply, water contact recreation, cold freshwater habitat, spawning habitat, wildlife habitat, etc.)

Decreased water losses and use by individuals as a result of outreach and education and the financial effects of metering water will result in reduced demand on the water supply.

Flooding

Describe how the project makes the watershed (more/less) resilient to one or more of the following high priority flooding vulnerability issues:

- Not applicable
- Aging critical flood protection
- Wildfires
- Critical infrastructure in a floodplain
- Insufficient flood control facilities

Ecosystem and Habitat

Describe how the project makes the watershed (more/less) resilient to one or more of the following high priority ecosystem and habitat vulnerability issues:

- Not applicable
- Climate-sensitive fauna or flora
- Recreation and economic activity
- Quantified environmental flow requirements
- Erosion and sedimentation
- Endangered or threatened species
- Fragmented habitat

Hydropower

Describe how the project makes the watershed (more/less) resilient to one or more of the following high priority hydropower vulnerability issues:

- Not applicable
- Reduced hydropower output

Upper Feather River IRWMP
Project Assessment - GHG Emissions Analysis

MS-28: Water Meter Installation

GHG Emissions Analysis

Project Construction Emissions

The project requires non-road or off-road engines, equipment, or vehicles to complete. If yes:

| Type of Equipment | Maximum Number Per Day | Total 8-Hour Days in Operation | Total MTCO ₂ e |
|---------------------------|------------------------|--------------------------------|---------------------------|
| Tractors/Loaders/Balkhoes | 1 | 75 | 20 |
| | | | 0 |
| | | | 0 |
| | | | 0 |
| | | | 0 |
| | | | 0 |
| | | | 0 |
| | | | 0 |
| | | | 0 |
| | | | 0 |
| | | | 0 |
| Total Emissions | | | 20 |

The project requires materials to be transported to the project site. If yes:

| Total Number of Round Trips | Average Trip Distance (Miles) | Total MTCO ₂ e |
|-----------------------------|-------------------------------|---------------------------|
| 12 | 100 | 2 |

The project requires workers to commute to the project site. If yes:

| Average Number of Workers | Total Number of Workdays | Average Round Trip Distance Traveled (Miles) | Total MTCO ₂ e |
|---------------------------|--------------------------|----------------------------------------------|---------------------------|
| | | | 0 |

The project is expected to generate GHG emissions for other reasons. If yes, explain:

The project does not have a construction phase and/or is not expected to generate GHG emissions during the construction phase.

MS-28: Water Meter Installation

Project Operating Emissions

The project requires energy to operate. If yes:

| Annual Energy Needed | Unit | Total MTCO ₂ e |
|----------------------|---------------------|---------------------------|
| | kWh (Electricity) | 0 |
| | Therm (Natural Gas) | 0 |

The project will generate electricity. If yes:

| Annual kWh Generated | Total MTCO ₂ e |
|----------------------|---------------------------|
| | 0 |

*A negative value indicates GHG reductions

The project will proactively manage forests to reduce wildfire risk. If yes:

| Acres Protected from Wildfire | Total MTCO ₂ e |
|-------------------------------|---------------------------|
| | 0 |

*A negative value indicates GHG reductions

The project will affect wetland acreage. If yes:

| Acres of Protected Wetlands | Total MTCO ₂ e |
|-----------------------------|---------------------------|
| | 0 |

*A negative value indicates GHG reductions

The project will include new trees. If yes:

| Acres of Trees Planted | Total MTCO ₂ e |
|------------------------|---------------------------|
| 0 | 0 |

*A negative value indicates GHG reductions

Project operations are expected to generate or reduce GHG emissions for other reasons. If yes, explain:

GHG Emissions Summary

| | |
|-----------------------------------------------------------|------------------------|
| Construction and development will generate approximately: | 22 MTCO ₂ e |
| In a given year, operation of the project will result in: | 0 MTCO ₂ e |