

UPPER FEATHER RIVER IRWM

PROJECT INFORMATION FORM

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	Project completion would be dependent on funding		
committed to the project through	alternatives.		
completion? If not, please explain			

II. GENERAL PROJECT INFORMATION

Project Title	MS-27: Treated Wastewater Reuse			
Project Category	☐ Agricultural Land Stewardship			
	☐ Floodplains/Meadows/Waterbodies			
	Municipal Services			
	Water Supply/Water Quality			
	Community Water/Wastewater			
	☐ Tribal Advisory Committee			
	☐ Uplands/Forest			
Project Description	When completed, the Plumas Eureka CSD "Treated			
(Briefly describe the project,	Wastewater Effluent Feasibility Study", performed by Bastian			
in 300 words or less)	Engineering, identifies the possibility of utilizing treated			
	wastewater as an irrigation supplement to the Plumas Pines			
	Golf Course. Plumas Eureka has two wastewater treatment			
	plants, only one that has the ability to supplement irrigation			
	water on the front nine holes. The other wastewater			
	treatment plant discharges its treated effluent to a community			
	leachfield on a daily basis.			
Project Location Description (e.g.,				
along the south bank of stream/river	New reclamation systems will be installed in the existing			
between river miles or miles from	wastewater treatments within Plumas Eureka CSD.			
Towns/intersection and/or address):				
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.

			Quantification
	Will the		(e.g. acres of
	project		streams/wetlands
Upper Feather River IRWM	address the	Brief explanation of project	restored or
Objectives:	objective?	linkage to selected Objective	enhanced)
Restore natural hydrologic		Reuse of treated wastewater will	20% reduction in
functions.	Yes	reduce demand on the aquifer.	surface and
			groundwater used
			to irrigate the golf
			course
Reduce potential for		Reduced use of local surface	
catastrophic wildland fires in	Yes	water and groundwater	
the Region.		resources for irrigation will make	
		that water more readily available	
		for fire suppression.	
Build communication and		Reclaiming community	
collaboration among water	Yes	wastewater and reusing it for	
resources stakeholders in the		irrigation on the golf course	
Region.		represents significant	
		collaboration between PECSD	
		and commercial entities in the	
		district.	
Work with DWR to develop			
strategies and actions for the			
management, operation, and	N/A		
control of SWP facilities in the			
Upper Feather River Watershed			
in order to increase water			
supply, recreational, and			
environmental benefits to the			
Region.			
Encourage municipal service		The PECSD is a municipal service	
providers to participate in		provider. This project represents	
regional water management	Yes	a pro-active contribution to long-	
actions that improve water		term regional water supply	
supply and water quality.		management and water quality.	
Continue to actively engage in	_		
FERC relicensing of	N/A		
hydroelectric facilities in the			
Region.			
Address economic challenges of	_		
municipal service providers to	N/A		
serve customers.			

Protect, restore, and enhance the quality of surface and groundwater resources for all beneficial uses, consistent with the RWQC Basin Plan. Address water resources and wastewater needs of DACs and	N/A Yes	Treated wastewater reuse will decrease the amount of surface	Groundwater aquafers will be
Native Americans.		water and groundwater currently used for irrigation purposes by as much as 20%.	less stressed and surface water supplies will be increased for other areas around the State.
Coordinate management of recharge areas and protect groundwater resources.	Yes	High quality treatment and reuse of wastewater for irrigation is an important component of managing our recharge capability and protecting ground water resources.	
Improve coordination of land use and water resources planning.	Yes	Coordination of land use and water resources is critical to the success of commercial, residential and purveyor entities.	
Maximize agricultural, environmental and municipal water use efficiency.	Yes	Utilizing treated wastewater for irrigation, reduces the hydraulic loading on community leachfields, thereby extending their life expectancy.	Unknown over-all impact. Impacts would need to be evaluated for each particular community.
Effectively address climate change adaptation and/or mitigation in water resources management.	Yes	This project reduces the use of "fresh" surface and groundwater for irrigation and could provide an optional irrigation source for homeowners and commercial landscaping.	
Improve efficiency and reliability of water supply and other water-related infrastructure.	Yes	Installing the new equipment necessary for treated wastewater reuse could extend the life of existing disposal sites and prolong the need to replace existing infrastructure.	Groundwater aquafers will be less stressed and surface water supplies will be increased for other users.
Enhance public awareness and understanding of water management issues and needs.	Yes	Increased public awareness of potential uses for treated wastewater reuse.	
Address economic challenges of agricultural producers.	Yes	Treated wastewater could offset the need for agriculture to use existing water sources for irrigation.	

Work with counties/		PECSD is prepared to work with	
communities/groups to make	Yes	the IRWM and the County to	
sure staff capacity exists for		administer any resultant grant	
actual administration and		and see this project through to	
implementation of grant		completion. We are prepared to	
funding.		resource accordingly.	

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 no leave a blank cell.** Note that DWR encourages multi-benefit projects.

If a _l	pplicable, describe benefits or impacts of the	project wit	h respect to:
a.	Native American Tribal Communities		Installation of wastewater reuse
			equipment could become a source of
			income for the agency.
b.	Disadvantaged Communities ¹		Installation of wastewater reuse
			equipment could become a source of
			income for the agency.
c.	Environmental Justice ²		PECSD ensures fair and equal services
			regardless of race, culture, income, or any
			other cultural factors. Installing the new
			equipment necessary for treated
			wastewater reuse could extend the life of
			existing disposal sites and prolong the
			need to replace existing infrastructure.
Ч	Drought Preparedness		Treated wastewater reuse would greatly
<u>.</u>	Drought repareuness		reduce the amount of surface water and
			groundwater used for irrigation.
e.	Assist the region in adapting to effects of		
	climate change ³	N/A	
f.	Generation or reduction of greenhouse gas		
	emissions (e.g. green technology)	N/A	
g.	Other expected impacts or benefits that	A1 / A	
	are not already mentioned elsewhere	N/A	

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

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/).

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.

³ Climate change effects are likely to include increased flooding, extended drought, and associated secondary effects such as increased wildfire risk, erosion, and sedimentation.

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	Yes	Treated wastewater could offset the need for agriculture to use existing water sources for irrigation.
Urban water use efficiency	Yes	Implementing Best Management Practices for irrigation use. Provide optional irrigation source for homeowners and commercial landscaping.
Improve Flood Management		
Flood management	No	
Improve Operational Efficiency and Tr	ransfers	
Conveyance – regional/local	No	
System reoperation	No	
Water transfers	No	
Increase Water Supply		
Conjunctive management	No	
Precipitation Enhancement	No	
Municipal recycled water	Yes	Increases public awareness of potential uses for treated wastewater reuse
Surface storage – regional/local	No	
Improve Water Quality		
Drinking water treatment and distribution	No	
Groundwater remediation/aquifer remediation	No	
Matching water quality to water use	Yes	Treated wastewater could be utilized to augment or replace existing irrigation systems currently using "fresh" water.
Pollution prevention	No	
Salt and salinity management	No	
Urban storm water runoff	No	
management	NU	
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	

Resource Management Strategy	Will the Project incorporate RMS?	Description of how RMS to be employed, if applicable
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

Project serves a need of a DAC?: No

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

	Category	Requested Grant Amount	Cost Share: Non-State Fund Source* (Funding Match)	Cost Share: Other State Fund Source*	Total Cost
a.	Direct Project Administration	75%	25%		unknown
b.	Land Purchase/Easement	75%	25%		unknown
c.	Planning/Design/Engineering / Environmental	75%	25%		unknown
d.	Construction/Implementation	75%	25%		unknown
e.	Environmental Compliance/ Mitigation/Enhancement	75%	25%		unknown
f.	Construction Administration	75%	25%		unknown
g.	Other Costs	75%	25%		unknown
h.	Construction/Implementation Contingency	75%	25%		unknown
i.	Grand Total (Sum rows (a) through (h) for each column)	unknown	unknown		unknown

		Project Cost	O&M Cost	Description of Phase		
	Phase 1					
	Phase 2					
	Phase 3					
	Phase 4					
k.	Explain how operation and maintenan	ce costs will be	Service rates woul	d be increased to meet O&M		
	financed for the 20-year planning perio	he 20-year planning period for project on (not grant funded).		costs when needed. O&M costs could be offset		
	implementation (not grant funded).			by charging a fee for the use of treated		
	, , ,		wastewater.			
I.	Has a Cost/Benefit analysis been comp	oleted?	No			
m.	Describe what impact there may be if	ribe what impact there may be if the project is		er and inadequate surface		
	not funded (300 words or less)		water supplies du	ring times of extreme drought		
			and over time with climate change. Shorter			
			lifespan of existing	g community leachfield.		
*I ic	t all sources of funding.					

(http://featherriver.org/documents/).

IV. **PROJECT IMPACTS AND BENEFITS**

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.

	Check the Current Project		Description of Activities in Each	Planned/ Actual Start	Planned/ Actual Completion
Project Stage	Stage	Completed?	Project Stage	Date (mm/yr)	Date (mm/yr)
a. Assessment and Evaluation		No	TBD	TBD	TBD
b. Final Design		No	TBD	TBD	TBD
c. Environmental Documentation (CEQA / NEPA)		No	TBD	TBD	TBD
d. Permitting		No	TBD	TBD	TBD
e. Construction Contracting		No	TBD	TBD	TBD
f. Construction Implementation		No	TBD	TBD	TBD
Provide explanation stage is checked as c					

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.).	
b.	List technical reports and	Plumas Eureka CSD
	studies supporting the	"Treated Wastewater Effluent Feasibility Study" by Bastian
	feasibility of this project.	Engineering (pending completion)
c.	Concisely describe the	Research on reclamation system compatible with the district's STEP
	scientific basis (e.g. how	primary treatment systems has been completed. Wastewater
	much research has been	disposal capacity analysis has been conducted.
	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 Supplier ¹ ?	No
f.	Are you are an Agricultural Water Supplier ² ?	No
g.	Is the project related to	Yes
	groundwater?	5-60 Humbug Valley
g.	Is the project related to	

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.

Upper Feather River IRWMP Project Assessment - GHG Emissions Analysis

MS 27: Treated Wastewater Reuse

GHG Emissions Analysis

Project Construction Emissions

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

	Maximum		
	Number Per	Total 8-Hour Days in	
Type of Equipment	Day	Operation	Total MTCO₂e
Tractors/Loaders/Bac			
khoes	1	5	1
Other Construction			
Equipment	2	10	2
			0
			0
			0
			0
			0
			0
			0
			0
		Total Emissions	3

Χ	The projec	t requires mate	rials to be tra	nsported t	to the project site.	If yes:
	_		A., a.s.a.a.a	Twim		

•	•	<u> </u>
	Average Trip	
Total Number of	Distance	
Round Trips	(Miles)	Total MTCO₂e
6	100	1

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

A Ni		Average Round Trip		
Average Number of Workers	of Workdays	Distance Traveled (Miles)	Total MTCO₂e	
3	10	200		2

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

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

MS 27: Treated Wastewater Reuse

otal MTCO₂e
20
0
s:
for other reasons. If yes,