

## **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 County Department of Public Works – Engineering	
Name of Primary Contact	Robert A. Perreault , Jr., Director of Public works	
Name of Secondary Contact	Robert Thorman, Engineering Technician II	
Mailing Address	1834 East Main Street, Quincy, CA 95971	
E-mail	bobperreault@countyofplumas.com	
Phone	(530) 283-6222	
Other Cooperating Agencies /	NA	
Organizations / Stakeholders		
Is your agency/organization	Yes	
committed to the project through		
completion? If not, please explain		

#### II. GENERAL PROJECT INFORMATION

Project Title	MS-19: North Valley Road Bridge Erosion			
Project Category	☐ Agricultural Land Stewardship			
	☐ Floodplains/Meadows/Waterbodies			
	☑ Municipal Services			
	☐ Tribal Advisory Committee			
	☐ Uplands/Forest			
Project Description	Significant bank erosion has occurred upstream and			
(Briefly describe the project,	downstream from the North Valley Road bridge on Indian			
in 300 words or less)	Creek and is in need of erosion protection by means of rip rap			
	to reduce the turbidity of the stream from erosion.			
Project Location Description (e.g.,	North Valley Road bridge over Lights Creek.			
along the south bank of stream/river				
between river miles or miles from				
Towns/intersection and/or address):				
Latitude:	40 degrees 06' 03" N			
Longitude:	120 degrees 50' 22" W			

#### 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.

	Will the		Quantification
	project		(e.g. acres of
	address		streams/wetlands
Upper Feather River IRWM	the	Brief explanation of project	restored or
Objectives:	objective?	linkage to selected Objective	enhanced)
Restore natural hydrologic	⊠ Yes	Restore hydrologic function by	Reduces significant
functions.		reducing stream bank erosion	erosion and
	□ N/A	and turbidity in Indian Creek.	turbidity.
Reduce potential for	☐ Yes	,	,
catastrophic wildland fires in			
the Region.	⊠ N/A		
Build communication and	☐ Yes		
collaboration among water			
resources stakeholders in the	⊠ N/A		
Region.	🖾 IN/ 🔼		
Work with DWR to develop	☐ Yes		
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	☐ Yes		
providers to participate in			
regional water management	⊠ N/A		
actions that improve water	-		
supply and water quality.			
Continue to actively engage in	☐ Yes		
FERC relicensing of			
hydroelectric facilities in the	⊠ N/A		
Region.			
Address economic challenges	☐ Yes		
of municipal service providers			
to serve customers.	⊠ N/A		
Protect, restore, and enhance	⊠ Yes	Restore clarity of stream by	Reduces significant
the quality of surface and		reducing erosion and turbidity.	erosion in Indian
groundwater resources for all	□ N/A	Reducing erosion and turbidity	Creek and turbidity
beneficial uses, consistent with		in Indian Creek also translates	in both Indian
the RWQC Basin Plan.		into reduced turbidity in the	Creek and the
		Middle Fork of the Feather	Middle Fork of the
		River.	Feather River

	Will the project		Quantification
	address	!	(e.g. acres of streams/wetlands
Upper Feather River IRWM	the	Brief explanation of project	restored or
Objectives:	objective?	linkage to selected Objective	enhanced)
Address water resources and	☐ Yes	-	
wastewater needs of DACs and		!	
Native Americans.	⊠ N/A		
Coordinate management of	☐ Yes		
recharge areas and protect		!	
groundwater resources.	⊠ N/A		
Improve coordination of land	☐ Yes	'	
use and water resources		!	
planning.	⊠ N/A		
Maximize agricultural,	☐ Yes	!	
environmental and municipal		!	
water use efficiency.	⊠ N/A		
Effectively address climate	☐ Yes	!	
change adaptation and/or	- · / •	!	
mitigation in water resources	⊠ N/A	!	
management. Improve efficiency and	☐ Yes		
reliability of water supply and	- 163	!	
other water-related	⊠ N/A	!	
infrastructure.		!	
Enhance public awareness and	☐ Yes		
understanding of water		!	
management issues and needs.	⊠ N/A		
Address economic challenges	☐ Yes		
of agricultural producers.		!	
	⊠ N/A		
Work with counties/	⊠ Yes	Plumas County Department of	
communities/groups to make		Public Works is committed to	
sure staff capacity exists for	□ N/A	the successful implementation	
actual administration and		of this project. We will ensure	
implementation of grant		the staff capacity exists to	
funding.		administer and implement the	
	1	grant project.	
If no objectives are addressed, de	escribe how th	ne 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 ap	pplicable, describe benefits or impacts of the	project wi	th respect to:
a.	Native American Tribal Communities		
		⊠ N/A	
b.	Disadvantaged Communities <sup>1</sup>		The project is located in a severely
		□ N/A	disadvantaged community tract and
			would benefit the community by
			enhancing water quality in Lights Creek
			which runs through the community.
c.	Environmental Justice <sup>2</sup>	N N / A	
		⊠ N/A	
d.	Drought Preparedness		
	-	⊠ N/A	
e.	Assist the region in adapting to effects of climate change <sup>3</sup>	N 11/1	
	climate change	⊠ N/A	
f.	Generation or reduction of greenhouse		
	gas emissions (e.g. green technology)	⊠ N/A	
			5. 6. 6. 1. 1. 1. 1. 1. 1. 1. 1.
g.	Other expected impacts or benefits that are not already mentioned elsewhere	□ N/A	Benefit of reduced erosion and turbidity in the creek and tributaries.
	are not already mentioned eisewhere	□ N/A	in the creek and tributaries.
<sup>1</sup> A [	Disadvantaged Community is defined as a con	nmunity wi	th an annual median household (MHI)
inco	ome that is less than 80 percent of the Statew	ide annual	
	UFR website ( <a href="http://featherriver.org/maps/">http://featherriver.org/maps/</a> )		
	vironmental Justice is defined as the fair trea		
	n respect to the development, adoption, imploused in the land policies. An example of environm		
_	. water supply, flooding, sanitation) in an area	-	·
	mate change effects are likely to include incre		

secondary effects such as increased wildfire risk, erosion, and sedimentation.

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

#### 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 (<a href="http://featherriver.org/2013-california-water-plan-update/">http://featherriver.org/2013-california-water-plan-update/</a>).

	Will the Project	
	incorporate	Description of how RMS to be employed,
Resource Management Strategy	RMS?	if applicable
Reduce Water Demand		
Agricultural Water Use Efficiency	☐ Yes ☒ No	
Urban water use efficiency	☐ Yes ☒ No	
Improve Flood Management		
Flood management		Reduced erosion in creeks results in less
	oxtimes Yes $oxtimes$ No	sediment in rivers and better flood
		management.
Improve Operational Efficiency and T	ransfers	
Conveyance – regional/local	☐ Yes ⊠ No	
System reoperation	☐ Yes ⊠ No	
Water transfers	☐ Yes ⊠ No	
Increase Water Supply		
Conjunctive management	☐ Yes ⊠ No	
Precipitation Enhancement	☐ Yes ⊠ No	
Municipal recycled water	☐ Yes ⊠ No	
Surface storage – regional/local	☐ Yes ⊠ No	

	Will the Project	Description of how RMS to be employed,
Resource Management Strategy	incorporate RMS?	if applicable
Improve Water Quality	TATO.	паррисале
Drinking water treatment and		
distribution	☐ Yes ⊠ No	
Groundwater remediation/aquifer	☐ Yes ☒ No	
remediation	□ res ⋈ no	
Matching water quality to water	☐ Yes ⊠ No	
use		
Pollution prevention	☐ Yes ⊠ No	
Salt and salinity management	☐ Yes ⊠ No	
Urban storm water runoff	☐ Yes ⊠ No	
management		
Practice Resource Stewardship		
Agricultural land stewardship	☐ Yes ⊠ No	
Ecosystem restoration	☐ Yes ⊠ No	
Forest management	☐ Yes ⊠ No	
Land use planning and management	☐ Yes ⊠ No	
Recharge area protection	☐ Yes ⊠ No	
Sediment management	⊠ Yes □ No	Reduced sediment in creeks & rivers
Watershed management	☐ Yes ⊠ No	
People and Water		
Economic incentives	☐ Yes ⊠ No	
Outreach and engagement	☐ Yes ⊠ No	
Water and culture	☐ Yes ⊠ No	
Water-dependent recreation	☐ Yes ⊠ No	
Wastewater/NPDES	☐ Yes ⊠ No	
Other RMS addressed and explanation	on:	

#### **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 BUDGE	ET		
Dro	oject serves a need of a DAC?:   Yes	√ No			
	nding Match Waiver request?: $\square$ Yes				
		_ · · · ·	Cost Share:		
			Non-State	Cost Share:	
		Requested	Fund Source*	Other State	
		Grant	(Funding	Fund	
	Category	Amount	Match)	Source*	Total Cost
a.	Direct Project Administration	\$20,000			\$20,000
b.	Land Purchase/Easement				
c.	Planning/Design/Engineering / Environmental	\$25,000			\$25,000
d.	Construction/Implementation	\$490,000			\$490,000
	Environmental Compliance/	\$10,000			\$10,000
e.	Mitigation/Enhancement	310,000			\$10,000
f.	Construction Administration	\$75,000			\$75,000
g.	Other Costs				
h.	Construction/Implementation	\$50,000			\$50,000
	Contingency				
i.	Grand Total (Sum rows (a) through	\$670,000			\$670,000
	(h) for each column)				
j.	<b>Can the Project be phased?</b> ☐ Yes	⊠ No If <b>yes</b> , p	rovide cost breakd	own by phases	
		Project Cost	O&M Cost	Descriptio	n of Phase
	Phase 1				
	Phase 2				
	Phase 3				
	Phase 4	***************************************	5 - 11 - 1 - 00 1	A - C	
k.	Explain how operation and maintenan		Funding for O&N	• •	
	financed for the 20-year planning peri implementation (not grant funded).	od for project	the Plumas Cound budget.	ty Department o	I Public Works
I.	Has a Cost/Benefit analysis been comp	oleted?	☐ Yes ⊠ No		
m.	Describe what impact there may be if		Continued bank	erosion and wate	er turbidity
	not funded (300 words or less)	e p. ejeet is	Continued Same	or object and water	ar car brancy
	t all sources of funding.				
	te: See Project Development Manual, Ex	xhibit B, for assist	tance in completing	g this table	
( <u>ht</u>	tp://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**.

	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		☐ Yes ⊠ No ☐ N/A		Upon execution of grant agreement	1 month after funding agreement
b. Final Design		☐ Yes ⊠ No □ N/A		2 months after funding secured	4 months after funding secured
c. Environmental Documentation (CEQA / NEPA)		☐ Yes ⊠ No □ N/A		4 months after funding secured	7 months after funding secured
d. Permitting		☐ Yes ⊠ No □ N/A		7 months after funding secured	8.5 months after funding secured
e. Construction Contracting		☐ Yes ⊠ No □ N/A		8.5 months after funding secured	9 months after funding secured
f. Construction Implementation		☐ Yes ⊠ No □ N/A		9 months after funding secured	12 months after funding secured
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 <a href="www.featherriver.org/catalog/index.php">www.featherriver.org/catalog/index.php</a> for documents gathered on the UFR Region.

a.	List the adopted planning documents the proposed	Water Quality Control Plan for the
	project is consistent with or supported by (e.g. General	Sacramento and San Joaquin River
	Plans, UWMPs, GWMPs, Water Master Plan, Habitat	Basins
	Conservation Plans, TMDLs, Basin Plans, etc.).	
b.	List technical reports and studies supporting the	NA
	feasibility of this project.	
	,	
c.	Concisely describe the scientific basis (e.g. how much	For the protection of aquatic species
	research has been conducted) of the proposed project in	and habitat, sediment loads (TSS,
	300 words or less.	turbidity, etc.) in streams and rivers are
		regulated by the Water Quality Control
		Plan for the Sacramento and San
		Joaquin River Basins (Basin Plan) and by
		established TMDLs. This project will
		reduce sediment inputs to local
		waterways in support of compliance
		with the Basin Plan and established
		TMDLs.
d.	Does the project implement green technology (e.g.	☐ Yes ☒ No ☐ N/A
	alternate forms of energy, recycled materials, LID	If yes, please describe.
	techniques, etc.).	in yes, pieuse describe.
e.	Are you an Urban Water Supplier <sup>1</sup> ?	☐ Yes ☒ No ☐ N/A
f.	Are you are an Agricultural Water Supplier <sup>2</sup> ?	
g.	Is the project related to groundwater?	☐ Yes ☒ No ☐ N/A
		If yes, please indicate which
		groundwater basin.
1		
	Irban Water Supplier is defined as a supplier, either publicly o	
	unicipal purposes either directly or indirectly to more than 3,	oud customers or supplying more than
	000 acre-feet of water annually.	and marketing and making the second of the second
	gricultural Water Supplier is defined as a water supplier, eith	
Wa	iter 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-19: North Valley Road Bridge Erosion

Project applicant: Plumas County Department of Public Works- Engineering

#### **GHG** Emissions Assessment

Project Construction Emissions (If you check any of the boxes, please see the attached worksheet)
<ul> <li>☑ The project requires nonroad or off-road engines, equipment, or vehicles to complete.</li> <li>☑ The project requires materials to be transported to the project site.</li> <li>☑ The project requires workers to commute to the project site.</li> <li>☑ The project is expected to generate GHG emissions for other reasons.</li> <li>☑ The project does not have a construction phase and/or is not expected to generate GHG emissions during the construction phase.</li> </ul>
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     ■     Not applicable     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     ■     Not applicable     Not applicable
☐ Increasing seasonal water use variability
Unmet in-stream flow requirements
☐ Unmet in-stream flow requirements ☐ Climate-sensitive crops
Climate-sensitive crops

high priority water quality vulnerability issues:
<ul> <li>Not applicable</li> <li>☐ Increasing catastrophic wildfires</li> <li>☐ Eutrophication (excessive nutrient pollution in a waterbody, often followed by algae blooms and other related water quality issues)</li> <li>☐ Seasonal low flows and limited abilities for waterbodies to assimilate pollution</li> <li>☐ Water treatment facility operations</li> <li>Unmet beneficial uses (municipal and domestic water supply, water contact recreation, cold freshwater habitat, spawning habitat, wildlife habitat, etc.)</li> </ul>
Flooding Describe how the project makes the watershed (more/less) resilient to one or more of the following high priority flooding vulnerability issues:
<ul> <li>Not applicable</li> <li>Aging critical flood protection</li> <li>Wildfires</li> <li>Critical infrastructure in a floodplain</li> <li>✓ Insufficient flood control facilities</li> </ul>
By reducing erosion and sedimentation, the creek will be capable of carrying increased flood waters.

**Water Quality** 

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:
<ul> <li>Not applicable</li> <li>□ Climate-sensitive fauna or flora</li> <li>□ Recreation and economic activity</li> <li>□ Quantified environmental flow requirements</li> <li>☑ Erosion and sedimentation</li> <li>□ Endangered or threatened species</li> <li>□ Fragmented habitat</li> </ul>
The project when completed will reduce the erosion and sedimentation in creek.
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-19: North Valley Road Bridge Erosion

#### **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
Excavators	1	5	2
Tractors/Loaders/Bac			
khoes	2	5	3
Dumpers/Tenders	1	5	0
Off-Highway Trucks	1	5	6
			0
			0
			0
			0
			0
			0
_	•	Total Emissions	11

|--|

		1 7
	Average Trip	
Total Number of	Distance	
Round Trips	(Miles)	Total MTCO <sub>2</sub> e
10	30	0

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

Average Number		Average Round Trip Distance Traveled		
of Workers	of Workdays	(Miles)	Total MTCO₂e	
5	10	60		1

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

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

## MS-19: North Valley Road Bridge Erosion **Project Operating Emissions** The project requires energy to operate. If yes: Total MTCO<sub>2</sub>e **Annual Energy Needed** Unit kWh (Electricity) Therm (Natural Gas) The project will generate electricity. If yes: Annual kWh Generated Total MTCO<sub>2</sub>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 MTCO₂e 0 \*A negative value indicates GHG reductions The project will affect wetland acreage. If yes: Acres of Protected Wetlands Total MTCO2e \*A negative value indicates GHG reductions The project will include new trees. If yes: Total MTCO₂e Acres of Trees Planted 0 \*A negative value indicates GHG reductions Project operations are expected to generate or reduce GHG emissions for other reasons. If yes, **GHG Emissions Summary** Construction and development will generate approximately: 13 MTCO<sub>2</sub>e 0 MTCO<sub>2</sub>e In a given year, operation of the project will result in: