



featherriver.org

UPPER FEATHER RIVER IRWM PROJECT INFORMATION FORM

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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	Taylorsville Mill Race Group sponsored by Feather River Resource Conservation District
Name of Primary Contact	Brian Kingdon
Name of Secondary Contact	Holly Foster
Mailing Address	125 Slate Drive, Taylorsville, CA 95983; 2521 Williams Road, Oroville, CA 95965
E-mail	bskingdon@gmail.com ; holly@robertfosterranch.com
Phone	(530)284-6504; (530) 570-0757
Other Cooperating Agencies / Organizations / Stakeholders	n/a
Is your agency/organization committed to the project through completion? If not, please explain	Yes

II. GENERAL PROJECT INFORMATION

Project Title	ALS-1: Taylorsville Mill Race Farmers Dam Resurfacing
Project Category	<input checked="" type="checkbox"/> Agricultural Land Stewardship <input type="checkbox"/> Floodplains/Meadows/Waterbodies <input type="checkbox"/> Municipal Services <input type="checkbox"/> Tribal Advisory Committee <input type="checkbox"/> Uplands/Forest
Project Description (Briefly describe the project, in 300 words or less)	The Taylorsville Mill Race irrigation system can trace its beginnings to the founding of the community of Taylorsville by Jobe Taylor. The original main ditch was dug by Chinese labor in the 1850s and provided water to power a grist and a lumber mill operated by Jobe Taylor. Area farmers utilized the "tail water" from the mills to irrigate crops and pastureland. When the mills ceased operation, farmers and ranchers continued to utilize the ditch system and water rights. Now part of the Indian Creek Decree (No. 4185), the Taylorsville Mill Race represents the largest diversion right (No. 54) within the decree and its associated watermaster service area. There are eleven shares or water rights held by landowners that make up the non-profit Taylorsville Mill Race Group, irrigating approximately 3,000 acres.

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	<p>Historically an earthen dam was built prior to the irrigation season that diverted water in Indian Creek for the Taylorsville Mill Race diversion; however, in the 1940s or 1950s (exact year not known), a more permanent cement dam was built that provided for a more reliable system and less disruption and damage to the stream flow and the adjacent banks of Indian Creek. This structure is maintained by the non-profit group of users who are organized under the name of the Taylorsville Mill Race Group.</p> <p>In 1986, the group undertook the work of resurfacing the face of the dam to repair damage and ensure its continued viability. This project was completed by members of the group with significant amounts of in-kind labor and donated expertise and equipment, but still cost the participants \$34,400 (Holly Foster interview with Charlie Neer, C. Neer Construction Co., May 30, 2015). The Mill Race Group has identified the need to resurface the dam again in the near future (within the next 10 years).</p>
Project Location Description (e.g., along the south bank of stream/river between river miles or miles from Towns/intersection and/or address):	The Farmers' Dam is located east of the community of Taylorsville, on Indian Creek approximately ½ mile upstream of the bridge on County Road A22 (Arlington Road). (Maps and photos of the project area are available from Holly Foster.)
Latitude:	
Longitude:	

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.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A	Due to the historical nature of the Mill Race Dam, its deterioration would be detrimental to the surrounding riparian area.	
Reduce potential for catastrophic wildland fires in the Region.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A	The Mill Race and its associated water supply serves as important component to wildland fire suppression for	There are approximately 2,000 residents in The Mill Race represents a

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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)
		the Indian Valley area and its residents.	dependable water source to aid the approximately 2,000 residents of Indian Valley in the event of catastrophic wildfire, especially the community of Taylorsville.
Build communication and collaboration among water resources stakeholders in the Region.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A	The Mill Race Dam is an important structural component within Indian Valley, and specifically the community of Taylorsville.	In addition to supporting the irrigation on approximately nine family-owned livestock and hay operations in Indian Valley, the Taylorsville Mill Race represents an important historical structure within the valley.
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.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A	While the Taylorsville Mill Race Dam is a private structure, it is downstream from Antelope Lake, a SWP dam constructed in 1964.	There are eleven shares or water rights held by landowners that make up the non-profit Taylorsville Mill Race Group, irrigating approximately 3,000 acres.
Encourage municipal service providers to participate in regional water management actions that improve water supply and water quality.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A		
Continue to actively engage in FERC relicensing of hydroelectric facilities in the Region.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A		

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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)
Address economic challenges of municipal service providers to serve customers.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A		
Protect, restore, and enhance the quality of surface and groundwater resources for all beneficial uses, consistent with the RWQC Basin Plan.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A	In addition to supporting the irrigation on approximately nine family-owned livestock and hay operations in Indian Valley, the Taylorsville Mill Race represents an important historical structure within the valley. The associated ditch system provides for a source of conjunctive water management for ranching and farming operations that utilize both ground and surface water. Additionally, the ditch system provides important wildlife habitat, as well as flood control for the valley during periods of excessive precipitation.	There are eleven shares or water rights held by landowners that make up the non-profit Taylorsville Mill Race Group, irrigating approximately 3,000 acres.
Address water resources and wastewater needs of DACs and Native Americans.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A		
Coordinate management of recharge areas and protect groundwater resources.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A	The Taylorsville Mill Race ditch system provides a source of conjunctive water management for ranching and farming operations that utilize both ground and surface water. The seasonal irrigation is also a component to regional aquifer recharge.	There are eleven shares or water rights held by landowners that make up the non-profit Taylorsville Mill Race Group, irrigating approximately 3,000 acres.
Improve coordination of land use and water resources planning.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A	Ensuring the long-term viability of the Taylorsville Mill Race Dam is an important component to the management of adjacent agricultural lands, and unincorporated residential areas.	There are eleven shares or water rights held by landowners that make up the non-profit Taylorsville Mill Race Group, irrigating

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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)
			approximately 3,000 acres.
Maximize agricultural, environmental and municipal water use efficiency.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A	The Taylorsville Mill Race Dam represents a major irrigation diversion structure for the Indian Valley region, and is critical to the irrigation of approximately 3,000 acres. Ensuring its long-term viability through this resurfacing project will be critical to efficient water usage associated with this water right.	There are eleven shares or water rights held by landowners that make up the non-profit Taylorsville Mill Race Group, irrigating approximately 3,000 acres.
Effectively address climate change adaptation and/or mitigation in water resources management.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A	The Mill Race Dam represents an important structure for water storage and control in the Indian Valley region, and its management in consultation with the area watermaster can help mitigate water shortages due to perceived climate change and/or drought. The historical nature of the structure means that it is now an important component of the riparian corridor that is adjacent	There are eleven shares or water rights held by landowners that make up the non-profit Taylorsville Mill Race Group, irrigating approximately 3,000 acres.
Improve efficiency and reliability of water supply and other water-related infrastructure.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A	The Taylorsville Mill Race Dam represents a major irrigation diversion structure for the Indian Valley region, and is critical to the irrigation of approximately 3,000 acres. Ensuring its long-term viability through this resurfacing project will be critical to efficient water usage associated with this water right.	There are eleven shares or water rights held by landowners that make up the non-profit Taylorsville Mill Race Group, irrigating approximately 3,000 acres.
Enhance public awareness and understanding of water management issues and needs.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A	In addition to supporting the irrigation on approximately nine family-owned livestock and hay operations in Indian Valley, the Taylorsville Mill Race represents an important	There are eleven shares or water rights held by landowners that make up the non-profit Taylorsville

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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)
		historical structure within the valley. The associated ditch system provides for a source of conjunctive water management for ranching and farming operations that utilize both ground and surface water. Additionally, the ditch system provides important wildlife habitat, as well as flood control for the valley during periods of excessive precipitation.	Mill Race Group, irrigating approximately 3,000 acres.
Address economic challenges of agricultural producers.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A	The Taylorsville Mill Race Dam represents a major irrigation diversion structure for the Indian Valley region, and is critical to the irrigation of approximately 3,000 acres. Ensuring its long-term viability through this resurfacing project will be critical to the economic survival of approximately nine family-owned livestock and hay operations.	There are eleven shares or water rights held by landowners that make up the non-profit Taylorsville Mill Race Group, irrigating approximately 3,000 acres.
Work with counties/communities/groups to make sure staff capacity exists for actual administration and implementation of grant funding.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A	The Taylorsville Mill Race Group is an unincorporated, non-profit organization of water uses; however, with no paid staff, it will be important that capacity is developed to facilitate the management of this project.	There are eleven shares or water rights held by landowners that make up the non-profit Taylorsville Mill Race Group, irrigating approximately 3,000 acres.

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	<input type="checkbox"/> N/A	Much of the UFRW is populated by DACs and Native Americans. Ensuring the long-term viability of the Taylorsville Mill Race Dam is important to the community economically, and has benefits to the community at large. (Note: The project, as described, does not meet the letter of the guidelines around Tribal project involvement. However, the Maidu Summit Consortium has expressed an interest in advisory involvement in the project via the Greenville Rancheria or Cunningham Family.)
b. Disadvantaged Communities¹	<input checked="" type="checkbox"/> N/A	Much of the UFRW is populated by DACs and Native Americans. Ensuring the long-term viability of the Taylorsville Mill Race Dam is important to the community economically, and has benefits to the community at large. (Note: N/A is checked because the project does not meet the letter of the guidelines around critical water needs of a DAC.)
c. Environmental Justice²	<input checked="" type="checkbox"/> N/A	Assistance provided through this project would be for the specific purpose of resurfacing the Taylorsville Mill Race Dam, and for engaging qualified individuals or firms for the engineering, permitting and construction components.
d. Drought Preparedness	<input type="checkbox"/> N/A	As a significant structure in an already existing water management system, the long-term viability of the Mill Race Dam is important for ongoing drought planning for ag operations within Indian Valley.
e. Assist the region in adapting to effects of climate change³	<input type="checkbox"/> N/A	As a significant structure in an already existing water management system, the long-term viability of the Mill Race Dam is important for responding to perceived changes in water supply due to climate change.

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f. Generation or reduction of greenhouse gas emissions (e.g. green technology)	<input type="checkbox"/> N/A	The working landscapes supported by the Taylorsville Mill Race Dam provide significant capacity for carbon sequestration.
g. Other expected impacts or benefits that are not already mentioned elsewhere	<input type="checkbox"/> N/A	Ensuring the long-term viability of the ag operations that depend on the Taylorsville Mill Race Dam has multiple public benefits, including improving the largest economic driver in the region.

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.

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

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Resource Management Strategy	Will the Project incorporate RMS?	Description of how RMS to be employed, if applicable
Reduce Water Demand		
Agricultural Water Use Efficiency	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Any enhancements made to the already existing dam structure will improve long-term agricultural water use efficiency.
Urban water use efficiency	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Improve Flood Management		
Flood management	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	The Mill Race ditch system is an important component of flood control within Indian Valley.
Improve Operational Efficiency and Transfers		
Conveyance – regional/local	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	The Mill Race ditch system is an important water conveyance system within Indian Valley.
System reoperation	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Ensure long-term viability of the Taylorsville Mill Race.
Water transfers	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Increase Water Supply		
Conjunctive management	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	The Mill Race water diversion system is part of a conjunctive management protocol for most of the shareholders who also utilize groundwater to supplement surface water allocations.
Precipitation Enhancement	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Municipal recycled water	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Surface storage – regional/local	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	The Mill Race Dam represents an important structure to provide for timely flows within the valley-wide irrigation system.
Improve Water Quality		
Drinking water treatment and distribution	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Groundwater remediation/aquifer remediation	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Matching water quality to water use	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Pollution prevention	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Salt and salinity management	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Urban storm water runoff management	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	The Taylorsville Mill Race ditch system represents an important component of flood control within Indian Valley and for the unincorporated community of Taylorsville.
Practice Resource Stewardship		
Agricultural land stewardship	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	There are approximately nine family-owned livestock and hay operations that depend on surface water diverted through the Taylorsville Mill Race ditch system. These

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Resource Management Strategy	Will the Project incorporate RMS?	Description of how RMS to be employed, if applicable
		members irrigate approximately 3,000 acres with the Mill Race diversion, and are responsible for managing adjacent non-irrigated lands that represent significant agricultural landscapes in the valley.
Ecosystem restoration	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	The Mill Race and adjacent properties represent a significant amount of habitat that is held privately. Supporting the ongoing viability of this structure enhances those habitats.
Forest management	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Land use planning and management	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	The Mill Race is an important component to the hydrology and topography in Indian Valley, thus its ongoing viability should be connected to land use planning.
Recharge area protection	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	The surface irrigation on the approximately 3,000 acres served by the Mill Race system represents a significant aquifer recharge area.
Sediment management	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Ensuring the long-term viability of the dam structure will prevent potential sediment issues that might arise if the dam structure were to deteriorate.
Watershed management	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Resurfacing the dam will help prevent a catastrophic erosion event, and therefore potential downstream bank erosion and sedimentation
People and Water		
Economic incentives	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Ensuring the long-term viability of the Taylorsville Mill Race Dam is important to the economic survival of approximately nine family-owned ag operations within Indian Valley, which also provide important economic support to the community at large.
Outreach and engagement	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	The Taylorsville Mill Race represents an important historical structure within the valley. As the work is initiated, project managers will be communicating with residents of the area about the critical need to maintain the dam structure and its importance to the area at large.
Water and culture	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	The Taylorsville Mill Race represents an important historical structure within the valley.
Water-dependent recreation	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

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Resource Management Strategy	Will the Project incorporate RMS?	Description of how RMS to be employed, if applicable
Wastewater/NPDES	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
Funding Match Waiver request?: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
	Category	Requested Grant Amount	Cost Share: Non-State Fund Source* (Funding	Cost Share: Other State Fund Source*	Total Cost
a.	Direct Project Administration	\$15,000 (est)			\$15,000
b.	Land Purchase/Easement				
c.	Planning/Design/Engineering / Environmental	\$35,000 (est)			\$35,000
d.	Construction/Implementation	\$100,000 (est)			\$100,000 (est)
e.	Environmental Compliance/Mitigation/Enhancement				
f.	Construction Administration				
g.	Other Costs	TBD			
h.	Construction/Implementation Contingency				
i.	Grand Total (Sum rows (a) through (h) for each column)	\$150,000			\$150,000
j.	Can the Project be phased? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, provide cost breakdown by phases				
		Project Cost	O&M Cost	Description of Phase	
	Phase 1	\$35,000		Year 1: Plan/Design/Permit	
	Phase 2	\$100,000		Year 2: Construction	
	Phase 3	\$15,000		Ongoing: Administration and Monitoring	
	Phase 4				

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k.	Explain how operation and maintenance costs will be financed for the 20-year planning period for project implementation (not grant funded).	Part of this resurfacing project will include planning for the long-term viability of the structure beyond the life of the restoration, and will potentially incorporate the development of endowment funds to aid in the long-term maintenance of the structure.
l.	Has a Cost/Benefit analysis been completed?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
m.	Describe what impact there may be if the project is not funded (300 words or less)	There are approximately nine family-owned livestock and hay operations that depend on surface water diverted through the Taylorsville Mill Race ditch system. These members irrigate approximately 3,000 acres with the Mill Race diversion, and are responsible for managing adjacent non-irrigated lands that represent significant agricultural landscapes in the valley. If this restoration project is not funded, it represents a significant economic burden on these operations, as well as the community as a whole due to their contributions to the local economy and the environment.

*List all sources of funding.
 Note: See Project Development Manual, Exhibit B, for assistance in completing this table
[\(http://featherriver.org/documents/\)](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 type="checkbox"/>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Project planning		
b. Final Design	<input type="checkbox"/>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Finalize project design		
c. Environmental Documentation (CEQA / NEPA)	<input type="checkbox"/>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A			
d. Permitting	<input type="checkbox"/>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Secure permits		

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e. Construction Contracting	<input type="checkbox"/>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Secure contractor, materials		
f. Construction Implementation	<input type="checkbox"/>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Resurface dam; Ongoing maintenance		
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.).	Indian Creek Decree Others TBD
b. List technical reports and studies supporting the feasibility of this project.	Plumas County Ag Commissioner's Report Watermaster Report Others TBD
c. Concisely describe the scientific basis (e.g. how much research has been conducted) of the proposed project in 300 words or less.	A feasibility study will be a component of the initial development stage; however, significant work has already been conducted to address the economic contribution of family-owned ranches to local rural economies and habitat conservation.
d. Does the project implement green technology (e.g. alternate forms of energy, recycled materials, LID techniques, etc.).	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A If yes, please describe. TBD – will depend on contractor and materials available (possibly recycled). Possible use of solar pump during resurfacing.
e. Are you an Urban Water Supplier¹?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
f. Are you an Agricultural Water Supplier²?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
g. Is the project related to groundwater?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A If yes, please indicate which 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: ALS-1: Taylorsville Mill Race Farmers Dam Resurfacing

Project applicant: Taylorsville Mill Race Group/FRRCD

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

Update to existing infrastructure that supports local irrigation and water supplies.

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

Provides for ongoing management of existing irrigation diversion; will increase efficiency and management capabilities.

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.)

Existing water diversion structure and storage that makes water available during peak fire season.

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

Dam is a significant part of irrigation system for cattle operations in Indian Valley, providing an economic base for the community at large.

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

ALS-1: Taylorsville Mill Race Farmers Dam Resurfacing

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	2	5	3
Dumpers/Tenders	2	5	0
Cement and Mortar Mixers	2	5	0
Skid Steer Loaders	2	5	1
Other Construction Equipment	1	5	0
			0
			0
			0
			0
			0
Total Emissions			4

☒ 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
30	50	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
5	2	200	1

☐ 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.

Upper Feather River IRWMP
Project Assessment - GHG Emissions Analysis

ALS-1: Taylorsville Mill Race Farmers Dam Resurfacing

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
3,000	-12,990

*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:	7 MTCO ₂ e
In a given year, operation of the project will result in:	-12,990 MTCO ₂ e