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 Environmental Health
Name of Primary Contact	Pat Sanders, REHS III
Name of Secondary Contact	Gerald Sipe, Director Environmental Health
Mailing Address	270 County Hospital Rd. Ste. 127, Quincy, CA 95971
E-mail	patsanders@countyofplumas.com
Phone	(530) 283-6355
Other Cooperating Agencies / Organizations / Stakeholders	
Is your agency/organization committed to the project through completion? If not, please explain	Yes

II. GENERAL PROJECT INFORMATION

Project Title	MS-13: Groundwater Monitoring
Project Category	☐ **Agricultural Land Stewardship** ☐ **Floodplains/Meadows/Waterbodies** X **Municipal Services** ☐ **Tribal Advisory Committee** ☐ **Uplands/Forest**
Project Description (Briefly describe the project, in 300 words or less)	This project will compile and input existing groundwater monitoring data into GIS layer(s) that will be publicly available. The goal is to compile and summarize existing data in a format that can be used to identify existing and potential water quality or quantity issues throughout Plumas County. This project will also help comply with the newly implemented and state mandated evaluation of water quality impacts of on-site sewage disposal systems under AB 885. The water quality data will be obtained from approximately 100 small public drinking water systems throughout Plumas County. Water purveyors perform routine water quality sampling and analysis as required under existing regulation. Depending on the system, data collected may include bacterial

	analyses (primarily coliform and fecal coliform bacteria), chemicals (such as volatile organics like benzene and toluene), minerals (such as arsenic, iron and manganese), and nutrients (like phosphates and nitrates). Additional data, including radiological analyses, could be included in the project subject to available funding. Water quantity data would be accessed through water well completion reports (water well logs), and pump test data where available. The above data are currently compared to an established standard by Plumas County Environmental Health, however, no trend analysis or spatial representation of these data is available. This project's GIS layer would make available data, metadata and trends in the data over time available to stakeholders and the general public. The project would be useful for addressing constituents of concern to maintain compliance with drinking water standards. Used in conjunction with other GIS layers, more informed decisions could be made regarding water quality protection, suitable water well location, septic system function, and land use planning.
Project Location Description (e.g., along the south bank of stream/river between river miles or miles from Towns/intersection and/or address):	This project would encompass all of Plumas County and existing drinking water system data.
Latitude:	N/A
Longitude:	N/A

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.	☐ Yes X N/A		
Reduce potential for catastrophic wildland fires in the Region.	☐ Yes X N/A		
Build communication and	X Yes	This project would produce 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)
collaboration among water resources stakeholders in the Region.	☐ N/A	useable dataset that would be beneficial to water quality stakeholders and the public to identify existing or potential water quality and quantity issues.	
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.	☐Yes X N/A		
Encourage municipal service providers to participate in regional water management actions that improve water supply and water quality.	X Yes ☐ N/A	The project would identify existing and potential water quality and quantity issues. With usable data available, a municipal service provider could identify any trends within their region and create strategies or partnerships to improve water quality and quantity.	
Continue to actively engage in FERC relicensing of hydroelectric facilities in the Region.	☐ Yes X N/A		
Address economic challenges of municipal service providers to serve customers.	☐ Yes X N/A		
Protect, restore, and enhance the quality of surface and groundwater resources for all beneficial uses, consistent with the RWQC Basin Plan.	☐ Yes X N/A	The project will protect water quality through data collection, analysis, and information sharing, including a publicly available dataset.	
Address water resources and wastewater needs of DACs and Native Americans.	X Yes ☐ N/A	This project will address existing and potential impacts to water resources for all County residents including DACs utilizing water delivery and onsite wastewater systems.	

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.	X Yes ☐ N/A	The project will result in a tool that could help coordinate management of recharge areas and protect groundwater resources.	
Improve coordination of land use and water resources planning.	X Yes ☐ N/A	The data produced from this project would be extremely beneficial to multiple agencies responsible for evaluating future development projects with regards to land use and water resources.	
Maximize agricultural, environmental and municipal water use efficiency.	☐ Yes X N/A		
Effectively address climate change adaptation and/or mitigation in water resources management.	Yes X N/A		
Improve efficiency and reliability of water supply and other water-related infrastructure.	X Yes ☐ N/A	The project would allow better decisions regarding future water supply and infrastructure development.	
Enhance public awareness and understanding of water management issues and needs.	X Yes ☐ N/A	This project will produce publicly available data, in a usable format, that would enhance public awareness and understanding of water management issues and needs.	
Address economic challenges of agricultural producers.	☐ Yes X N/A		
Work with counties/ communities/groups to make sure staff capacity exists for actual administration and implementation of grant funding.	X Yes ☐N/A	The majority of the proposed work is to tabulate existing data through use of an outside consultant.	

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

N/A

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 applicable, describe benefits or impacts of the project with respect to:		
a. Native American Tribal Communities	☐ N/A	The goal of this project is to identify any existing or potential water quality concerns through analysis of existing data. This information will be beneficial for all residents of Plumas County, many of whom reside in Tribal communities.
b. Disadvantaged Communities[1]	☐ N/A	The goal of this project is to identify any existing or potential water quality concerns through analysis of existing data. This information will be beneficial for all residents of Plumas County, many of whom reside in DACs.
c. Environmental Justice[2]	☐ N/A	The goal of this project is to identify any existing or potential water quality concerns through analysis of existing data. This information will be beneficial for all residents of Plumas County.
d. Drought Preparedness	☐ N/A	The water quantity information gathered through well completion reports and pump testing could identify water shortage areas and dry wells trends thus helping improve drought resiliency.
e. Assist the region in adapting to effects of climate change[3]	X N/A	
f. Generation or reduction of greenhouse gas emissions (e.g. green technology)	X N/A	
g. Other expected impacts or benefits that are not already mentioned elsewhere	X N/A	

[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	X Yes ☐ N/A	g. Drinking water treatment and distribution	X Yes ☐ N/A
b. Stormwater capture, storage, clean-up, treatment, management	☐ Yes X N/A	h. Watershed protection and management	X Yes ☐ N/A
c. Removal of invasive non-native species, creation/enhancement of wetlands, acquisition/protection/restoration of open space and watershed lands	☐ Yes X N/A	i. Contaminant and salt removal through reclamation/desalting, other treatment technologies and conveyance of recycled water for distribution to users	☐ Yes X N/A
d. Non-point source pollution reduction, management and monitoring	X Yes ☐ N/A	j. Planning and implementation of multipurpose flood management programs	☐ Yes X N/A
e. Groundwater recharge and management projects	X Yes ☐ N/A	k. Ecosystem and fisheries restoration and protection	☐ Yes X N/A
f. Water banking, exchange, reclamation, and improvement of water quality	X Yes ☐ 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	☐ Yes ☐ No	N/A
Urban water use efficiency	X Yes ☐ No	Project information may help drive urban water use efficiency planning and strategy development.
Improve Flood Management		
Flood management	☐ Yes X No	
Improve Operational Efficiency and Transfers		
Conveyance – regional/local	☐ Yes X No	
System reoperation	☐ Yes X No	
Water transfers	☐ Yes X No	
Increase Water Supply		
Conjunctive management	☐ Yes X No	
Precipitation Enhancement	☐ Yes X No	
Municipal recycled water	☐ Yes X No	
Surface storage – regional/local	☐ Yes X No	
Improve Water Quality		
Drinking water treatment and	☐ Yes X No	

Resource Management Strategy	Will the Project incorporate RMS?	Description of how RMS to be employed, if applicable
distribution		
Groundwater remediation/aquifer remediation	☐ Yes X No	
Matching water quality to water use	Yes X No	
Pollution prevention	X Yes ☐ No	The project will help monitor the impacts that on-site sewage disposal systems have on groundwater quality.
Salt and salinity management	☐ Yes X No	
Urban storm water runoff management	☐ Yes X No	
Practice Resource Stewardship		
Agricultural land stewardship	☐ Yes X No	
Ecosystem restoration	☐ Yes X No	
Forest management	☐ Yes X No	
Land use planning and management	X Yes ☐ No	The information and usable format that this project will create will be beneficial in evaluating areas for potential land development. For example if data is available that indicates that the proposed development area is already experiencing impacts to groundwater quality from existing on-site sewage disposal systems the appropriate mitigations can be employed.
Recharge area protection	X Yes ☐ No	The information and usable format that this project will be beneficial in evaluating areas vulnerable to contamination. This will help decision makers protect recharge areas of vulnerable groundwater areas.
Sediment management	☐ Yes X No	
Watershed management	X Yes ☐ No	The information produced by this project will inform decision makers and the public, and help drive improving watershed management.
People and Water		
Economic incentives	☐ Yes X No	
Outreach and engagement	X Yes ☐ No	The dataset will be publicly available
Water and culture	Yes X No	
Water-dependent recreation	☐ Yes X No	
Wastewater/NPDES	X Yes ☐ No	The project will identify any impacts to groundwater resources caused by on-site sewage disposal systems.

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?: ☐ Yes ☐ No
Funding Match Waiver request?: ☐ Yes ☐ 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**	$4,000			$4,000
b.	**Land Purchase/Easement**				
c.	**Planning/Design/Engineering / Environmental**				
d.	**Construction/Implementation**	$36,000			$36,000
e.	**Environmental Compliance/ Mitigation/Enhancement**				
f.	**Construction Administration**				
g.	**Other Costs**				
h.	**Construction/Implementation Contingency**				
i.	**Grand Total (Sum rows (a) through (h) for each column)**				

j.	**Can the Project be phased?** X Yes ☐ No If **yes**, provide cost breakdown by phases			
		Project Cost	**O&M Cost**	**Description of Phase**
	Phase 1	$30,000		Water Quality tabulation and mapping
	Phase 2	$10,000		Water Quantity tabulation and mapping
	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).**	Funding for operation and maintenance of the GIS tool will be included in the budget of Plumas County Environmental Health
l.	**Has a Cost/Benefit analysis been completed?**	☐ Yes X No
m.	**Describe what impact there may be if the project is not funded (300 words or less)**	This monitoring program will help satisfy monitoring required under the statewide onsite wastewater regulations AB 885. Without funding, the county's ability to implement the

		onsite wastewater program could be in jeopardy, or other funds would be required to satisfy the Regional Water Quality Control Board and their requirements for monitoring onsite wastewater treatment systems.

*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	☐	☐ Yes ☐ No ☐ N/A			
b. Final Design	X	☐ Yes **X** No ☐ N/A	1. Develop an RFP and a scope of work, 2. Solicit bids 3. Select consultant/ contractor.	Based on available funding	Within 1 year of awarding contract
c. Environmental Documentation (CEQA / NEPA)	☐	☐ Yes ☐ No X N/A			
d. Permitting	☐	☐ Yes ☐ No X N/A			
e. Construction Contracting	☐	☐ Yes ☐ No X N/A			
f. Construction Implementation	☐	☐ Yes ☐ No X N/A			
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.).	SWR – Onsite Wastewater Treatment System Policy (AB 885) http://www.waterboards.ca.gov/water_issues/programs/owts/docs/owts_policy.pdf
b. List technical reports and studies supporting the feasibility of this project.	N/A
c. Concisely describe the scientific basis (e.g. how much research has been conducted) **of the proposed project in 300 words or less.**	This project will gather, tabulate and input existing groundwater monitoring data into GIS layer(s) that will be publicly available. The goal is to compile and summarize existing data in a format that can be used to identify existing and potential water quality or quantity issues throughout Plumas County.
d. Does the project implement green technology (e.g. alternate forms of energy, recycled materials, LID techniques, etc.).	☐ Yes X No ☐ N/A If yes, please describe.
e. Are you an Urban Water Supplier[1]?	☐ Yes X No ☐ N/A
f. Are you are an Agricultural Water Supplier[2]?	☐ Yes X No ☐ N/A
g. Is the project related to groundwater?	X Yes ☐ No ☐ N/A If yes, please indicate which groundwater basin. This project will benefit all groundwater basins in Plumas County.

[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.