PROJECT INFORMATION FORM

Please complete a unique Project Information Form for each project in the application. There are no character limits on specific questions but the Project Information Form as a whole may not exceed 10 pages.

1. Project Name: Upper Russian River Rainwater Harvest and Greywater Workshops and Demonstration Project

2. Local Project Sponsor (if different than grantee): Mendocino County Resource Conservation District

3. Please provide the latitude and longitude of the project site. For linear projects or those covering a large area, report the coordinates for a central point. If this information is confidential, it must be clearly labeled "confidential." You can find the latitude and longitude easily using google maps. You can find instructions at the following link: https://support.google.com/maps/answer/18539?hl=en&co=GENIE.Platform%3DDesktop.

   Latitude: 39.267436 Longitude: -123.204825

4. Please briefly describe the proposed project.

   Communities reliant on Lake Mendocino were subject to severe water shortages in 2021 and preparations must be made to prepare for continued drought conditions in 2022 and beyond. Mendocino County Resource Conservation District proposes to conduct two rainwater harvest and two greywater reuse workshops and install one 1,500-gallon rainwater harvest demonstration project in the greater Ukiah area (Potter Valley, Redwood Valley, Calpella, Ukiah, Hopland). The workshops will be advertised and open to the public and will present information applicable to small businesses, small agriculture, Tribes, and residences. The goal of the project is to assist individual homeowners and families to prepare for and adapt to changing water supply conditions and to improve drought resilience. The workshops and demonstration will focus on homeowners and small businesses with the objective of making rainwater harvest and greywater systems easily replicable and user-friendly for broad adoption. Furthermore, Mendocino County Planning & Building and Environmental Health have created graywater system guidelines for outdoor irrigation to guide homeowners in creating greywater systems and to determine when a permit is required. Simple laundry to landscape systems do not require a permit from the County.

   MCRCD's workshops and demonstration project will focus exclusively on rooftop capture. Since it is rainwater and not stormwater that will be collected, the project is not a stormwater project and therefore not included in a Storm Water Resource Plan (SWRP). The rationale for this determination is that the project provides a net benefit and is in compliance with the SWRP guidance. Rainwater catchment is a time-honored response to water scarcity. The use of this practice will assist with adaptation to drought in California and to relieve pressure on both groundwater and surface water resources. MCRCD has received several grants from state agencies over the past decade, funding rainwater harvest as a drought adaptation tool, including:

• California Department of Water Resources Prop 84 Mendocino Jumpstart Integrated Water Plan (2010)
• California Wildlife Conservation Board Navarro Streamflow Enhancement (2018)
• California Wildlife Conservation Board Navarro River and Outlet Creek Flow Enhancement Planning (2021)

5. Does this project respond to an existing emergency to humans and/or wildlife? If so, please describe the emergency and how this project is addressing it.

   Yes. All of Mendocino County is in a declared drought emergency. The Ukiah Valley is currently at level D3 Extreme Drought according to the California Drought Monitor. The dry lake bed of Lake Mendocino was the location chosen by Governor Newson to declare the first drought emergency in California in April 2021. In August 2021, the State Water Resources Control Board issued curtailment orders to all water right holders in the Upper Russian River, making it illegal to draw or divert water from the Upper Russian River, except as needed to ensure human health and safety. Water districts outside the Ukiah city limits are largely dependent on surface water and water stored in Lake Mendocino, but the lake is at risk of going completely dry in 2022 (SF Chronicle 11/12/21). The communities of Calpella, Redwood Valley, Hopland, and others, were subject to severe water shortages and mandatory water restrictions in 2021. This project will provide how-to demonstrations for improved water resilience for local communities.

   With regard to project benefits to Disadvantaged Communities, approximately 25% of project will benefit census tracts 109 and 115 in Calpella and North Ukiah, designated as DAC by the DWR DAC mapping tool. Another 25% of project will benefit census tracts 113 and 116 in south Ukiah and environs, designated as SDAC by the DWR DAC mapping tool.

6. Each project must meet one of the following purposes as it relates to drought. Please select the appropriate purpose for your project.
   a. ☒ Address immediate impacts on human health and safety, including providing or improving availability of food, water, or shelter.
   b. ☐ Address immediate impacts on fish and wildlife resources.
   c. ☒ Provide water to persons or communities that lose or are threatened with the loss or contamination of water supplies.

7. Each project must enhance regional drought resilience and align with the goals and objectives of the relevant approved Integrated Regional Water Management Plan. You can find the relevant IRWM Region by using the map at the following link: https://gis.water.ca.gov/app/dacs/

   The IRWM Plans can be found at the following link: https://water.ca.gov/Work-With-Us/Grants-And-Loans/IRWM-Grant-Programs/Plan-Review-Process. If you have any questions about the IRWM region the contact list can be found at the following link: https://water.ca.gov/Work-With-Us/Grants-And-Loans/IRWM-Grant-Programs. Applicants are encouraged to contact and coordinate with the applicable RWMG for the IRWM region in which the project is located

   Please identify the IRWM objective your project addresses.

Primary Objectives of Project:
Goal 5: Climate Adaptation & Energy Independence
-Objective 11 — Address climate change effects, impacts, and vulnerabilities, including droughts, fires, floods, and sea level rise. Develop adaptation strategies for local and regional sectors to improve air and water quality and promote public health and safety
-Objective 12 — Promote local energy independence, water/ energy use efficiency, GHG emission reduction, carbon sequestration, and jobs creation

Secondary Objectives of Project:
Goal 1: Intraregional Cooperation & Adaptive Management
-Objective 1 — Respect local autonomy and local knowledge in Plan and project development and implementation
Goal 4: Beneficial Uses of Water
-Objective 8 — Ensure water supply reliability and quality for municipal, domestic, agricultural, Tribal, and recreational uses while minimizing impacts to sensitive resources
-Objective 10 — Protect groundwater resources from over-drafting and contamination

8. Describe the Primary Benefit of the project.
   Quantified benefit: 50
   Units (Drop down):Other If other please enter:Participants reached through workshops, plus an additional 500 through social media
   Benefit Type: Water Supply Reliability If other please enter:Community understanding of greywater and rainwater harvest

9. Describe the Secondary Benefit of the project:
   Quantified benefit: 1500
   Units (Drop down):Other If other please enter:Gallons collected
   Benefit Type: Water Supply If other please enter:

10. Please briefly describe how the project will achieve the claimed benefits.
    The project will engage the public through four in-person workshops (unless public health or safety prohibit in-person gatherings), plus ample outreach through traditional and social media including press releases, Facebook and Instagram posts, the MCRCD newsletter (over 150 subscribers), and the Mendocino County Water Agency newsletter (over 600 subscribers). In addition, the rainwater harvest demonstration project will collect 1,500 gallons of water per season.

11. Briefly describe how the community/area benefiting from this project is being impacted by the current drought.
    Since May 2021, residents of Redwood Valley have been restricted to 55 gallons per person per day and customers of Calpella, Hopland, Willow, Millview and River Estates Water Districts have been required to reduce water usage by 50%. Local agriculture in Redwood Valley was cut off from water deliveries completely. Residents in these locations and others in the greater Ukiah area are primarily dependent on flows released from Lake Mendocino for their water supply. As of November 18, 2021, Lake Mendocino was at 20,206 acre-feet, or 36.6% of the water supply target for this time of year. As noted above, Lake Mendocino is at risk of going completely dry in 2022. The State Water Resources Control Board's Safe and Affordable Funding for Equity and Resilience (SAFER) program identified 26 systems at risk or potentially at risk of failing to meet one or more key Human Right to Water goals

including maintaining a sustainable water system. Additionally, multiple small systems and well sites in Mendocino County were identified vulnerabel due to past drought impacts in DWR's 2020 Part II – Drought and Water Shortage Vulnerability Assessment and Risk Scoring.

12. How will this project alleviate the impacts described in your answer to Question 11?
The project will educate the local population about ways to adapt to changing water supply conditions by demonstrating easy ways to collect and reuse water, reducing reliance on water suppliers and Lake Mendocino. According to Greywater Action, "water usage decreased after households installed greywater systems by an average of 17 gallons per capita per day (gpcd), which represents an average reduction of 26% (48 gpcd down from 65 gpcd)."

13. Please complete the following budget table for the project. (Identify funding sources in Question 15)

	BUDGET CATEGORY	Grant Amount	All Other Cost	Total Cost
(a)	Project Administration	7,250		**7,250**
(b)	Land Purchase / Easement	0		**0**
(c)	Planning / Design / Engineering / Environmental Documentation	27,868		**27,868**
(d)	Construction / Implementation	13,367		**13,367**
	TOTAL COSTS	**48,485**		**48,485**

14. Please describe why state funding is needed for this project. If state funding is not secured, what will happen to the project?
The project is unlikely to happen without state funding. MCRCD does not currently have funding for rainwater and greywater workshops or demonstration projects in 2022 or beyond. The majority of the upper Russian River watershed in Mendocino County is designated as an Economically Disadvantaged Community (DAC), and MCRCD's ability to deliver this information to the communities would not be possible if funding is not made available.

15. Will the applicant provide cost share (encouraged but not required) and/or will this project require any additional funding from sources other than this solicitation? If so, please describe the funding source and indicate if the funding has been secured. If the funding has not been secured, please describe the plan to secure the necessary funding.
The funding requested will cover the full cost of the project.

16. Is land acquisition or landowner permission required for this project? If so, please briefly describe the status of the acquisition or agreement with the landowner. If the acquisition is not

complete or permission not secured at the time of application, please describe the plan to complete it.

Yes, landowner permission will be sought for the rainwater/greywater demonstration project. The location selection will be done with the rainwater/greywater consultant in coordination with MCRCD once funds are secured.

17. Has planning and design for this project been completed? If not, please describe the status of planning and design.

    Planning and design have not been completed for the demonstration project. Planning and design, including identifying an appropriate location, will be completed by the rainwater/greywater consultant in coordination with MCRCD once funds are secured.

18. Are the CEQA (and NEPA if applicable) and permitting processes for this project complete? If not, please briefly describe the permits and CEQA (or NEPA) documents to be completed and projected schedule for completion.

    NOE - Notice of Exemption and a County permit for greywater installation will be secured.

19. Please briefly describe the necessary construction/implementation for this project.

    Implementation will consist of planning and conducting four community workshops, including arranging for location(s), speaker(s), and advertising. Construction will consist of identifying a location for the demonstration project, installing a gravel pad, installing pipes and a rainwater catchment tank and a greywater reuse system.

20. Please complete the schedule below for the project. Projects must be complete by March 31, 2026, to allow time for final invoice processing and retention payment before the State funds expire on June 30, 2026. Project administration should end at least three months after construction.

	Categories	**Start Date**	**End Date**
(a)	Project Administration	3/1/2022	12/31/2024
(b)	Land Purchase / Easement		
(c)	Planning/ Design / Engineering / Environmental Documentation	3/1/2022	12/31/2024
(d)	Construction/ Implementation	3/1/2022	12/31/2024