APPLICANT INFORMATION

Please complete the following summary form for the application. This form should be saved and submitted with the forms intact via email to urbandrought@water.ca.gov. Please do not print to pdf or scan this form. If the application contains more than five projects, please contact DWR for an expanded form. A Project Information Form should be complete for each project in addition to this summary form.

Applicant Name Humboldt County on behalf of the North Coast Resource Partnership (NCRP)

Primary Contact Name Cybelle Immitt Title NCRP Director of Administration and Contracts; Natural Resources Planning Manager, Humboldt County Department of Public Works, Environmental Services Division

E-mail CImmitt@co.humboldt.ca.us

Address 1106 Second Street City Eureka

Zip Code 95501 Telephone (707) 267-9542

Total State Funding Requested: 4,982,346

Does this application include project(s) benefitting underrepresented communities/Tribes?
Pull down: Yes

Provide a summary of the budget for the application including other cost share (if applicable), for all projects included in the application. Please note that there is no required non-state cost share, but cost share is encouraged. Applicants are required to show other cost share to account for the full project budget. Funding source(s) for cost share must be described for each project in Question 15 on the Project Information Form.

APPLICATION BUDGET SUMMARY

	PROJECTS	Grant Amount	Other Cost Share	Total Cost
	Grant Administration	282,020		**282,020**
1	Project Name: Resighini Rancheria, Conservation Measures to Address Drought	342,000	150,000	**492,000**
2	Project Name: The Watershed Research and Training Center, Browns and Tule Creeks Drought Resiliency Storage and Forbearance Project	283,264	45,263	**328,527**

3	Project Name: Weaverville Community Services District, Drought Resiliency & Water Reliability Project	500,000	79,100	**579,100**
4	Project Name: Montague Water Conservation District, Main Canal Lining for Instream Benefit	970,000	0	970,000
5	Project Name: Salmonid Restoration Federation, Redwood Creek, South Fork Eel River Storage and Forbearance Program	500,000	150,000	**650,000**
6	Project Name: Scott River Watershed Council, Scott River Tailings Restoration, Long Pond Implementation, Phase 1	698,236	115,288	**813,524**
7	Project Name: Mattole Restoration Council, Southern Humboldt Emergency Fire Suppression Water Supply	345,793	38,500	**384,293**
8	Project Name: Gold Ridge Resource Conservation District, Sonoma County Household Drought Resiliency Project	185,548	0	**185,548**
9	Project Name: Mendocino County Resource Conservation District, Rainwater Harvest and Greywater Workshops and Demonstration Project	48,485	0	**48,485**
10	Project Name: Briceland Community Services District, Water Supply Enhancement	548,000	0	**548,000**
11	Project Name: Resort Improvement District No.1, Shelter Cove Well Site Improvements	95,000	39,000	**134,000**
12	Project Name: Brooktrails Township Community Services District, Brooktrails Township Clarifier Project	110,000	61,000	**171,000**

13	Project Name: Sonoma County Department of Transportation and Public Works, Jenner Smart Meters	74,000	850	**74,850**
14	Project Name:			
	GRAND TOTAL	**4,982,346**	**679,001**	**5,661,347**

BOARD OF SUPERVISORS, COUNTY OF HUMBOLDT, STATE OF CALIFORNIA
Certified Copy of Portion of Proceedings for the Meeting of December 7, 2021

RESOLUTION NO. 21-134

RESOLUTION OF THE HUMBOLDT COUNTY BOARD OF SUPERVISORS AUTHORIZING THE HUMBOLDT COUNTY DEPARTMENT OF PUBLIC WORKS TO APPLY FOR, AND ACCEPT, FUNDING MADE AVAILABLE THROUGH THE CALIFORNIA DEPARTMENT OF WATER RESOURCES URBAN AND MULTIBENEFIT DROUGHT RELIEF GRANT PROGRAM ON BEHALF OF THE NORTH COAST RESOURCE PARTNERSHIP

WHEREAS, in 2004 the North Coast Resource Partnership ("NCRP") was formed as a water management collaborative between Humboldt, Sonoma, Modoc, Mendocino, Trinity, Del Norte and Siskiyou Counties in order to develop a North Coast Integrated Regional Water Management ("IRWM") Plan; and

WHEREAS, in 2006 the NCRP governing body unanimously appointed the County of Humboldt to act as the Regional Contract Administrator for NCRP grants; and

WHEREAS, the County of Humboldt, on behalf of the NCRP, proposes to implement multiple regional Urban and Multibenefit Drought Relief grants, each including priority projects from within the North Coast IRWM Region bundled under the umbrella of the NCRP; and

WHEREAS, the County of Humboldt has the legal authority and is authorized to enter into a funding agreement with the State of California; and

WHEREAS, The County of Humboldt intends to apply for grant funding, on behalf of the NCRP, from the California Department of Water Resources for multiple regional Urban and Multibenefit Drought Relief grants, each including priority projects from within the North Coast IRWM Region bundled under the umbrella of the NCRP.

NOW, THEREFORE, THE HUMBOLDT COUNTY BOARD OF SUPERVISORS HEREBY RESOLVES AS FOLLOWS:

1. That pursuant and subject to all of the terms and provisions of Budget Act of 2021, the Humboldt County Department of Public Works Director, or a designee thereof, is hereby authorized and directed to prepare and file an application for funding with the Department of Water Resources and take such other actions necessary or appropriate to obtain grant funding.

2. The Humboldt County Department of Public Works Director, or a designee thereof, is hereby authorized and directed to execute the funding agreement with the California Department of Water Resources and any amendments thereto.

3. The Humboldt County Department of Public Works Director, or designee is hereby authorized and directed to submit any required documents, invoices, and reports required to obtain grant funding.

BOARD OF SUPERVISORS, COUNTY OF HUMBOLDT, STATE OF CALIFORNIA
Certified Copy of Portion of Proceedings for the Meeting of December 7, 2021

Dated: December 7, 2021

Virginia Bass

Virginia Bass, Chair
Humboldt County Board of Supervisors

Adopted on motion by Supervisor Wilson, Seconded by Supervisor Bohn, and the following vote:

AYES:	SUPERVISORS:	Bohn, Bass, Bushnell, Wilson, Madrone
NOES:	SUPERVISORS:	NONE
ABSENT:	SUPERVISORS:	NONE
ABSTAIN:	SUPERVISORS:	NONE

STATE OF CALIFORNIA
County of Humboldt

I, KATHY HAYES, Clerk of the Board of Supervisors, County of Humboldt, State of California, do hereby certify the foregoing to be a full, true, and correct copy of the original made in the above-entitled matter by said Board of Supervisors at a meeting held in Eureka, California as the same now appears of record in my Office.

IN WITNESS WHEREOF, I have hereunto set my hand and ~~affix~~ed the Seal of said Board of Supervisors.

NIKKI TURNER
Deputy Clerk of the Board of Supervisors of
The County of Humboldt, State of California

Eligibility Criteria Self-Certification Form

As an applicant with the Department of Water Resources' (DWRs) Financial Assistance Branch, you must complete this self-certification form as a condition to enter into a Grant Agreement with DWR to receive grant funds. Failure to meet and continue to comply with these conditions and requirements may result in DWR revoking the grant award, withholding grant funding, stopping invoice payment, and/or terminating the Grant Agreement. An answer of "No" to certain questions below may make you ineligible to enter into an agreement with DWR. If any question is going to be answered as "No" please contact DWR at urbandrought@water.ca.gov.

1. Applicant Eligibility

Applicant Name: Humboldt County on behalf of the North Coast Resource Partnership
Applicant Entity Type: Public Agency on behalf of a Regional Water Management Group, as defined in Section 10539 of the Water Code

Applicant/Local Project Sponsor Name	Applicant/Local Project Sponsor Entity Type
Resighini Rancheria	Federally recognized California Native American Tribe
The Watershed Research and Training Center	non-profit organization
Weaverville Community Services District	special district
Montague Water Conservation District	public agency
Salmonid Restoration Federation	non-profit organization
Scott River Watershed Council	non-profit organization
Mattole Restoration Council	non-profit organization
Gold Ridge Resource Conservation District	special district
Mendocino County Resource Conservation District	special district
Briceland Community Services District	special district
Resort Improvement District No.1	special district
Brooktrails Township Community Services District	special district
Sonoma County Department of Transportation and Public Works	public agency

If the Applicant or any Local Project Sponsor is a mutual water company or public utility, does their proposed project have a clear and definite public purpose that benefits the customers of the water system or other public utility and not the investors?
Yes ☐ No ☐

If yes, please state the public purpose and explain how it benefits the customers:

2. Authorizing Resolution

A resolution adopted by the applicant's governing body authorizing the application for a grant under this program that designates a representative to sign the application, and in the event of an award of grant funds, a representative to execute the funding agreement and all necessary documentation (e.g., invoices, progress reports, etc.) is required. A signed, certified resolution must be received prior to the execution of a grant agreement with the State.

Is the authorizing resolution complete and included with the application? If there is not a resolution included at time of application, please provide an estimate for when it will be complete.
The authorizing resolution from the Humboldt County Board of Supervisors is complete, included with the application and is dated December 7, 2021.

3. Urban Water Management Compliance

List the urban water suppliers (UWS), as defined by Water Code section 10617, that will receive funding if the application is awarded funds. Does each UWS have a current Urban Water Management Plan (UWMP) verified by DWR that addresses the requirements of the California Water Code? Each UWS must also have a complete and validated water loss audit report verified by DWR in accordance with Senate Bill (SB) No. 555 (Stats. 2015, ch. 679). Additionally, each UWS proposing wastewater projects, water use efficiency projects, or drinking water projects must be compliant with the water metering requirements contained in Water Code section 525 et seq.

Urban Water Supplier	Date UWMP verified by DWR
No UWS will receive funding if the application is awarded funds.	

Are all Urban Water Suppliers compliant with all requirements for Urban Water Suppliers including but not limited to metering requirements (Water Code, § 525 et seq.), water loss audits, and monthly reporting to the State Water Resources Control Board (SWRCB)?
Yes ☐ No ☐

If a supplier isn't compliant with the requirements, please explain:

4. Water Shortage Contingency Plan (WSCP)

List the urban water suppliers that will receive funding if the application is awarded funds. Does each UWS have an activated Water Shortage Contingency Plan to a stage appropriate for their water conditions? DWR will verify the status with the water board.

Urban Water Supplier	Date WSCP was activated
No UWS will receive funding if the application is awarded funds.	

5. Agricultural Water Management and Measurement Compliance

List the agricultural water suppliers, as defined by Water Code section 10608.12(a), that will receive funding if the application is awarded funds. If there are none, please indicate so. Each supplier must have a completed Agricultural Water Management Plan (AWMP) that has been verified by DWR. If the supplier provides less than 25,000 irrigated acres, they will be exempt from the AWMP requirement.

Agricultural Water Supplier	Date AWMP verified by DWR, or exempt
No agricultural water suppliers will receive funding if the application is awarded funds.	

Are all Agricultural Water Suppliers compliant with all other requirements of an Agricultural Water Supplier including but not limited to farm gate delivery reports, Efficient Water Management Practices, Water Measurement regulations, etc.?

Yes ☐ No ☐

If a supplier isn't compliant with the requirements, please explain:

6. Surface Water Diverter Compliance

List the surface water diverters that will receive funding if the application is awarded funds. If there are none, please indicate so. For the listed surface water diverters, state whether each diverter has submitted their latest annual and monthly surface water diversion reports in compliance with requirements outlined in Water Code section 5100 et seq., and their Use Reports as set forth in the California Code of Regulations, title 23, section 907 et seq., to the SWRCB.

Surface Water Diverter	Has Surface Water Diverter submitted all required reports to SWRCB to remain up to date? (Yes/No)
Weaverville Community Services District	yes
Montague Water Conservation District	yes
Briceland Community Services District	yes
Resort Improvement District No.1	yes
Brooktrails Township Community Services District	yes
Sonoma County Department of Transportation and Public Works	yes

7. Groundwater Management Compliance

List any projects that directly affect groundwater levels or quality. You can find your groundwater basin and the priority by going to the following link: https://sgma.water.ca.gov/webgis/?appid=SGMADataViewer#gwlevels%C2%A0

Project Name	Grantee/Local Project Sponsor	Groundwater Basin	Priority of the basin
Conservation Measures to Address Drought	Resighini Rancheria	Lower Klamath River Valley	Very low
Shelter Cove Well Site Improvement	Resort Improvement District No.1	None; DAC	

8. Groundwater Management Compliance Self-Certification

Groundwater Management Compliance: The Applicant and any Local Project Sponsors must maintain continuing eligibility with the current Sustainable Groundwater Management Act (SGMA, Water Code, § 10720 et seq.) requirements as they come into effect.

☒ Yes, the Applicant and Local Project Sponsors agree to maintain continuing eligibility with the most current SGMA requirements, as applicable.

☐ No, the Applicant and Local Project Sponsors do not agree to maintain continuing eligibility with the most current SGMA requirements, as applicable. DWR cannot enter into a Grant Agreement.

9. California Statewide Groundwater Elevation Monitoring (CASGEM) Compliance

Please fill out the following table for any projects located in a high or medium priority groundwater basin as identified by the CASGEM program. Projects in high and medium priority groundwater basins that do not have a CASGEM monitoring entity will not be eligible for funding if the grant applicant and Local Project Sponsor are listed as potential monitoring entities in Water Code section 10927. The same applies to counties whose jurisdictions include unmonitored high and medium priority groundwater basins (Water Code, § 10933.7(a)).

Project	Basin Monitoring Entity	If there is no monitoring entity, is the Local Project Sponsor is an eligible monitoring entity per Water Code section 10928?
Montague Water Conservation District, Main Canal Lining for Instream Benefit	Siskiyou County Flood Control and Water Conservation District	
Scott River Watershed Council, Scott River Tailings Restoration, Long Pond Implementation, Phase 1	Siskiyou County Flood Control and Water Conservation District	
Gold Ridge Resource Conservation District, Sonoma County Household Drought Resiliency Project	Santa Rosa Plain Groundwater Sustainability Agency	

10. Stormwater Projects

If a project is a stormwater and/or dry weather runoff capture project, is it included in a Stormwater Resource Plan or functionally equivalent plan (FEP) if applicable? Projects that benefit a DAC with a population of 20,000 or less are exempt from this requirement. However, they must not be a co-permittee for a municipal separate Storm Sewer System (MS4) National Pollutant Discharge Elimination System (NPDES) permit issued to a municipality with a population greater than 20,000 (Water Code, § 10563(c)(2)(B)).

Project (only list stormwater and/or dry weather runoff capture projects)	Project Included in a Stormwater Resource Plan or FEP?
No stormwater and/or dry weather runoff capture project	

11. Agreement Template

Have you and your counsel reviewed the agreement template and all terms and conditions?

Yes ☒ No ☐

I understand that the Department of Water Resources will rely on this signed certification in order to approve funding and that false and/or inaccurate representations in this Self-Certification may result in revocation of the award of funds or loss of all funds awarded to the Grantee. and that reimbursement of any grant funds is reliant upon the Grantee and all local project sponsors to meet and maintain all eligibility requirements outlined within this Self-Certification form, the 2021 Urban and Multibenefit Drought Relief Program Guideline and Proposal Solicitation Package, and the Grant Agreement terms and conditions. Additionally, for the aforementioned reasons, the Department of Water Resources may withhold disbursement of grant funds and/or pursue any other applicable legal remedies.

Thomas K. Mattson — Name of Authorized Representative

Signature

Humboldt County Public Works Director — Title

January 13, 2022 — Date

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: Conservation Measures to Address Drought for the Resighini Rancheria

2. Local Project Sponsor (if different than grantee): Resighini Rancheria

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: 41 degrees 30'50"N Longitude: 124 degrees 01'19"W

4. Please briefly describe the proposed project.

   The proposed Project seeks to implement several critical water conservation measures for the Resighini Rancheria tribal community to address drought conditions and protect groundwater within the lower Klamath River. The proposed Project will include installation of 22 zero-lead residential water meters, four 1-inch meters on tribal facilities, two 2-inch meters on the main distribution lines to identify leaks, three 4-inch gate valves for system isolation, one 3-inch flow switch, system telemetry, replacement of two 200-foot sections of HDPE 4-inch tank inflow line and 6-inch tank outflow line, water storage tank access road repair, a 60,000-gallon water storage tank, leak detectors, and automated water meter reading system.

   The Resighini Rancheria is served by a Tribal community water system (EPA PWS# 0605057), which serves 152 Tribal citizens of the Resighini Rancheria. The system includes two pumps that draw water from the same groundwater aquifer, a 40,000-gallon storage tank, and distribution system. The proposed Project would add a secondary water storage tank of at least 60,000 gallons needed for current demands as well as the components presented above. The improvements would ensure the uninterrupted delivery of water to the Resighini Rancheria community during drought conditions, and reduce water loses and associated demands on groundwater, and improve public health conditions.

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, this proposed project responds to an existing emergency to both humans and wildlife. The tribal community water system is the sole source for all the Tribal residences and facilitites at Resighini Rancheria. The system is reliant on two side-by-side wells that are pulling from the groundwater associated with the lower Klamath River. Drought conditions are severely impacting the lower Klamath River and the Tribe has seen an associated impact to the fish (juvenile fish dying and disease), water quality (HABs), and other wildlife. The tribal community water

system has seen impacts from drought conditions that have resulted in increased pumping and need to monitor usage to avoid shutoff. Further, the total inability of the operators to identify and isolate leaks significantly contributes to large amounts of water loss on an already strained system, as well as periods where the entire system must be turned off. This impacts public health and safety for the entire Tribal community, including all residents, Tribal offices, and the visitors at the park and community center. Water losses in the distribution system increase the need for pumping for the groundwate resource which can affect water availability in the Klamath River.

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.

    GOAL 1: INTRAREGIONAL COOPERATION & ADAPTIVE MANAGEMENT
    -Objective 1 - Respect local autonomy and local knowledge in Plan and project development and implementation
    -Objective 3 - Integrate Traditional Ecological Knowledge in collaboration with Tribes to incorporate these practices into North Coast Projects and Plans
    The proposed Project incorporates Goal 1 Objectives 1 and 3 through supporting the Resighini Rancheria in improving water system efficiency and providing the Tribe with the resources necessary to continue to improve the water system.

    GOAL 2: ECONOMIC VITALITY
    -Objective 4 - Ensure that economically disadvantaged communities are supported and that project implementation enhances the economic vitality of disadvantaged communities by improving built and natural infrastructure systems and promoting adequate housing
    -Objective 5 - Conserve and improve the economic benefits of North Coast Region working landscapes and natural areas

    The proposed Project incorporates Goal 2 Objectives 4 and 5 through supporting the economically disadvantaged Resighini Rancheria water system to improve the water system

efficiency.

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 9 - Improve drinking water quality and water related infrastructure to protect public health, with a focus on economically disadvantaged communities
-Objective 10 - Protect groundwater resources from over-drafting and contamination
The proposed Project incorporates Goal 4 Objectives 8, 9, and 10 through improving the reliability of the Resighini Rancheria water system, improving infrastructure, and reducing peak demands on groundwater.

GOAL 5: CLIMATE ADAPTATION & ENERGY INDEPENDENCE
-Objective 11 - Address climate change effects, impacts, 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
-Objective 12 - Promote local energy independence, water/ energy use efficiency, GHG emission reduction, and jobs creation.
The proposed Project incorporates Goal 5 Objectives 11 and 12 through improving the water system resiliency and reducing energy needs through leak detection and inmproved water system efficiency.

8. Describe the Primary Benefit of the project.
   Quantified benefit: 7
   Units (Drop down):Other If other please enter:Days of Storage
   Benefit Type: Water Supply - Ground If other please enter:

9. Describe the Secondary Benefit of the project:
   Quantified benefit: 152 Tribal citizens of the Resighini Rancheria. The 10 residences and 4 Tribal facilitites on the Rancheria. Fish and wildlife resources of the lower KLamath River.
   Units (Drop down):Other If other please enter:
   Benefit Type: Ecosystem/Habitat Restoration If other please enter:

10. Please briefly describe how the project will achieve the claimed benefits.
    Drought risk to the community has been highlighted by the lack of water meters and gate valves required for tracking consumption, promoting conservation, and detecting leaks. The Tribe is unable to accurately estimate the reduction in water losses until the project is implemented. However, connection metering to inform customers of water use has been shown to reduce usage. The water system does not have residential water meters, production master meters, or gate valves for system isolation. The system is in need of basic telemetry to remotely report tank level and pumping conditions to the operator to prevent outages. The additonal system flow monitoring and leak detection equipment will also enable the Tribe to identify and address leaks more easily. An additional 60,000 gallon storage tank will provide sufficent storage to enhance time for groundwater recharge and provide water to the tribal community for at least 1 week. Although final engineering will be necessary, currently it has been projected by the Tribe's Water Operator, in discussion with Indian Health Service engineers that the project will include installation of 22 zero-lead residential water meters, four 1-inch meters on tribal facilities, two 2-inch meters on the

distribution to locate leaks, three 4-inch gate valves for system isolation, one 3-inch flow switch, system telemetry, replacement of two 200-foot sections of HDPE 4-inch tank inflow line and 6-inch tank outflow line, water storage tank access road repair, 60,000-gallon water storage tank, leak detectors, and automated water meter reading system. In addition, the Resighini Rancheria has an outreach conservation program in place using the annual consumer confidence report, as well as newsletters to help inform the community of things they do to help conserve water. the Tribe is also working on a Drought Conservation Plan that will provide a framework that will be required for residents to use for water conservation during drought conditions. These measures in conjunction with the proposed Project will provide for a more drought resilient system to achieve the sysetm benefits.

11. Briefly describe how the community/area benefiting from this project is being impacted by the current drought.

    The Governor issued a drought delcaration for Del Norte County, and the Tribe declared a State of Emergency Declaration for Drought on May 26, 2021. The Declaration was to acknowledge that the impacts from the ongoing drought include, but are not limited to water supply challenges, groundwater availability for domestic and government uses, poor water quality and quantity in the Klamath River and tributaries, ongoing fish kill of juvenile salmon, increased fish disease outbreaks and likelihood for associated adult salmonid fish kill, negative impacts to future fish runs, harmful algal blooms in the Klamath River and tributaries, negative impacts to threatened and endangered species, negative impacts to Tribal trust resources, negative impacts to terrestrial wildlife and plant species, water reliability for wildfire and residential fire protection, impacts to Tribal beneficial uses associated with water, potential negative impacts to ocean water quality and marine resources, economic impacts to our RV Park and Campground from reduced recreational opportunities associated with tourism, increase in wildfire potential, negative impacts to forest resources including merchantable timber, as well as negative impacts to Yurok culture, ceremonies, subsistence, and cultural lifeways that are inextricably tied to the waterways and lands within our ancestral territory. All of these impacts directly and/or indirectly impact the health, wellbeing, political and economic security, and cultural lifeways of our Tribal Citizens and our Tribal nation.

12. How will this project alleviate the impacts described in your answer to Question 11?

The tribal community water system is the sole provider to all of the Tribal residences and facilitites at Resighini Rancheria. This system is reliant on two side-by-side wells that are pulling from the groundwater associated with the lower Klamath River. The tribal community water system has seen impacts from drought conditions that have resulted in increased pumping and need to monitor usage to avoid shutoff. The total inability to identify and isolate leaks significantly contributes to large amounts of water loss on an already strained system, as well as periods where the entire system must be turned off. This impacts public health and safety for the entire Tribal community, including all residents, Tribal offices, and the visitors at the park and community center. The project would include a secondary water storage tank of at least 60,000 gallons and associated piping; water meters and gate valves; a telemetry system; and leak detector equipment to efficiently identify and resolve leaks in the system. The improvements would ensure the uninterrupted delivery of water to the Resighini Rancheria community during drought conditions, reduce the impact to precious groundwater and improve public health conditions.

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	57,000		**57,000**
(b)	Land Purchase / Easement			
(c)	Planning / Design / Engineering / Environmental Documentation	47,500		**47,500**
(d)	Construction / Implementation	237,500	150,000	**387,500**
	TOTAL COSTS	**342,000**	**150,000**	**492,000**

14. Please describe why state funding is needed for this project. If state funding is not secured, what will happen to the project?

    State funding is needed to supply the budget needed to complete the project. If State funding is not secured then the Tribe will not be able to address the drought emergency and will have to continue to pursue alternative funding that will take longer and exacerbate drought impacts in terms of duration and severity.

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 Tribe has secured $150,000 from Indiah Health Service for a porton of the project, which is being provided as a cost share.

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.

    No, Tribe owns land and all facilitites, includes fee and trust lands.

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

    Preliminary design has been completed by Indian Health Service for the meters and values; final engineering needed, and is included in the cost estimate. Design and engineering is needed for water tank installation, connection to wells, and access, as well as telemetry system. The size of tank was based on how often the system wellhead pumps are running plus the system high demand peaks, with the intention of taking pressure off the supply aquifer.

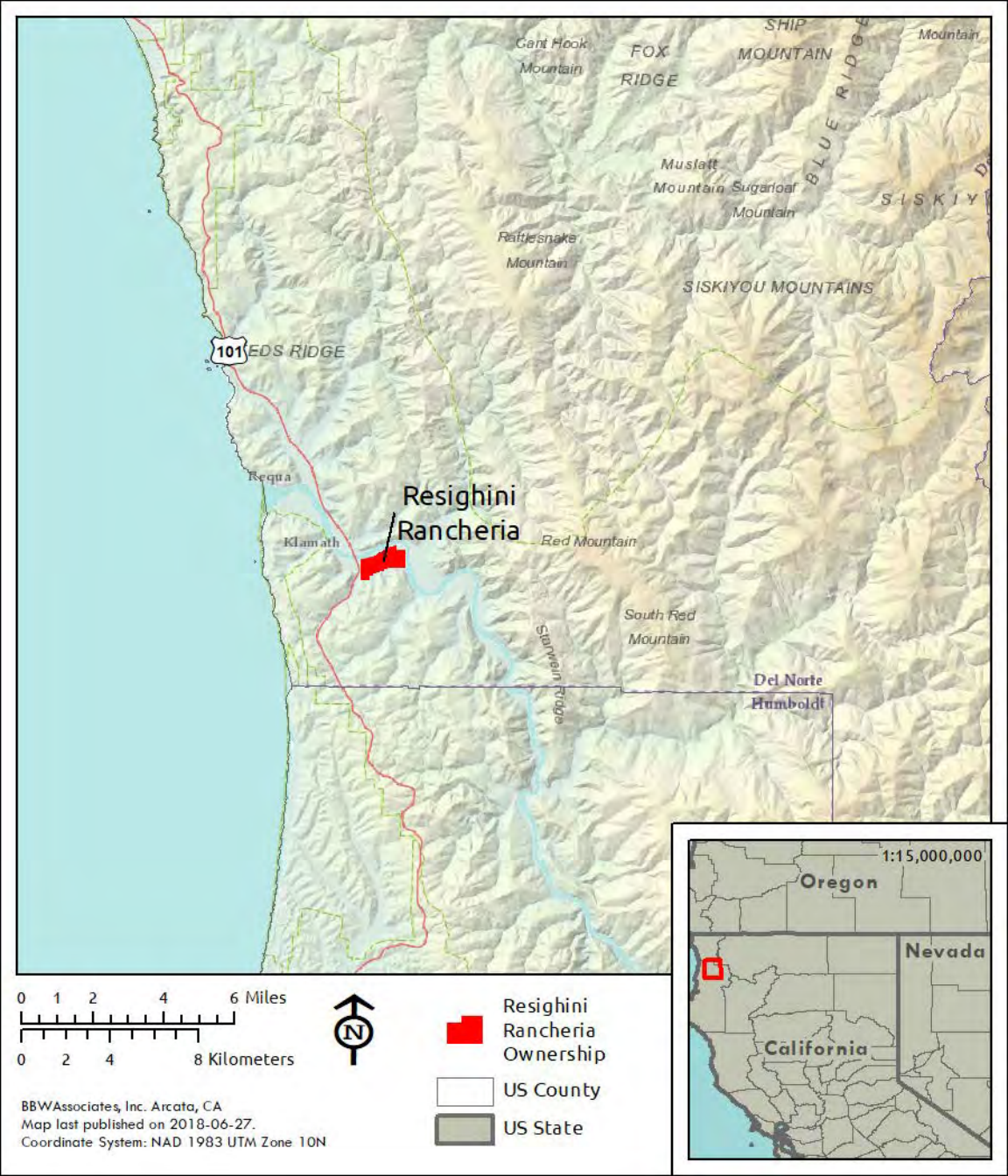
18. Are the CEQA (and NEPA if applicable) and permitting processes for this project complete? If not, please briefly describe the permits and CEQA (or NEPA) documents to be completed and projected schedule for completion.

Indian Health Service will perform NEPA for the proejct as lead agency in connection with their funding portion. If needed a CEQA Categorical Exemption (CE) could be filed, as the project is anticipated to be exempt under several exemptions, including maintenance and repair in place.

19. Please briefly describe the necessary construction/implementation for this project.
    The Tribe's Water Operator, in discussion with Indian Health Service engineers have developed the concept project to include the installation of 22 zero-lead residential water meters, four 1-inch meters on tribal facilities, two 2-inch meters on the distribution lines to locate leaks, three 4-inch gate valves for system isolation, one 3-inch flow switch, system telemetry, replacement of two 200-foot sections of HDPE 4-inch tank inflow line and 6-inch tank outflow line, water storage tankaccess road repair, 60,000-gallon water storage tank, leak detectors, and automated water meter reading system. The steep, dirt access road will need to be improved to ensure access and an area next to the existing tank will need to be leveled for the storage tank.

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	12/30/2023
(b)	Land Purchase / Easement		
(c)	Planning/ Design / Engineering / Environmental Documentation	4/1/2022	12/30/2022
(d)	Construction/ Implementation	10/1/2022	9/30/2023


Gant Hook Mountain
FOX RIDGE
SHIP MOUNTAIN
Mountain
BLUE RIDGE
Muslatt Mountain
Sugarloaf Mountain
SISKIY
Rattlesnake Mountain
SISKIYOU MOUNTAINS
101
EDS RIDGE
Requa
Resighini Rancheria
Klamath
Red Mountain
South Red Mountain
Stanwein Ridge
Del Norte
Humboldt
1:15,000,000
Oregon
Nevada
California
0 1 2 4 6 Miles
0 2 4 8 Kilometers
N
Resighini Rancheria Ownership
US County
US State
BBWAssociates, Inc. Arcata, CA
Map last published on 2018-06-27.
Coordinate System: NAD 1983 UTM Zone 10N

Resighini Rancheria Tribal Land

PROJECT INFORMATION FORM

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

1. Project Name: Browns and Tule Creeks Drought Resiliency Storage and Forbearance Project

2. Local Project Sponsor (if different than grantee): The Watershed Research and Training Center

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: 40.612650 Longitude: -122.937938

4. Please briefly describe the proposed project.

   Residents in the Browns and Tule Creek watersheds rely on the creeks for all of their water needs. The Watershed Research and Training Center (WRTC) will build off of earlier outreach to private landowners to implement storage and forbearance projects improving domestic water resiliency during drought, while also conserving instream flow in these priority watersheds for anadromous fisheries. Each project will provide 35,000 gallons of domestic water storage per parcel and secure forbearance from diversion during the low-flow season.

   Over the past decade, recurring drought conditions have drastically depleated instream flows in much of the North Coast Region, including streams within Trinity County. Residents in the Browns and Tule Creek watersheds of Trinity County rely on the creeks for all of their domestic water needs. Anadromous fish, including the federally listed endangered Southern Oregon/Northern California Coast coho salmon, also rely on these same streams for spawning and/or rearing habitat. Browns Creek has maintained habitat connectivity at a flow of 1 cfs, however if multiple diversions pump from the creek simutaneously, the cummulative impact can quickly dewater the stream resulting in stranding of fish and other aquatic organisms.

   In 2014, lower Browns Creek went dry for the first time in documented history. Many residents along the lower reaches of Browns Creek were without water for their domestic needs. Fish that did not migrate out of the system congregated in shrinking pools and were picked off by local wildlife. Another severly dry year in 2021 also dried up Browns Creek, but this time it was a full month earlier, lasted for three months, and two large wildfires in the vicinity burned throughout the summer. Tule Creek is a smaller watershed with fewer residental parcels, but many of these residents have experienced a loss of domestic water during dry years and have also been impacted by wildfires.

This drought resiliency project was initiated in 2014 by the North Coast Resource Conservation and Development Council- 5 Counties Salmon Conservation Program (5Cs) with support by the Watershed Research and Training Center (WRTC). The initial funding came from the NCRP IRWM 2015 grant awarded to the 5Cs to be used to outreach to Browns Creek residents and implement Storage and Forbearance (S&F) projects. However, the amount of outreach required was underestimated and the cost of implementation has increased substantially over the years. Each S&F project provides 35,000 gallons of domestic water storage per parcel and secures forbearance from diversion during the low-flow summer season. The WRTC has built off of the earlier outreach to private landowners to further participation in S&F projects thus improving domestic water resiliency during drought, while also conserving instream flow in these priority watersheds for anadromous fisheries. In 2018, the WRTC received a grant from Bureau of Reclamation to implement S&F projects in Browns and Tule Creeks. In 2021, the WRTC, in partnership with The Nature Conservancy, received a grant from the California Wildlife Conservation Board to develop a Community Water Management Plan for water resiliency in Browns and Tule Creek watersheds.

Currently, the WRTC and 5Cs have completed construction on three S&F projects and have two additional sites under construction. However, the cost of tanks alone has increased substantially and previous implementation funds have been exhausted while landowner interest in participation has increased demand. This proposal to request funds from NCRP is to directly support implementation and construction of Storage and Forbearance projects within the Browns Creek and Tule Creek watersheds thus providing resiliency to drought for residents and reducing anthropogenic impacts to instream flows for aquatic life.

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.

This project does respond to the seasonal existing emergency to humans and wildlife. During the hottest temperatures and lowest instream flows of the summer, this project provides access to stored water for domestic needs (Storage) while reducing negative impacts to instream flows from anthropogenic diversions (Forbearance).

Within the Browns Creek watershed, the drought of 2021 resulted in a greater number of residents not having normal access to water for their domestic needs than the drought of 2014. The Browns Creek watershed has over 150 private residential parcels, the majority of which have riparian rights to Browns Creek or its tributaries, and many obtain their domestic water from seep wells or shallow springs. Some of these residents are on limited incomes andstruggle to pay for supplemental water deliveries. Tule Creek is a smaller watershed with less residential parcels, but the people living there have also suffered greatly during drought and many are on limited incomes. Both Browns and Tule Creek watersheds have been identified through multiple planning efforts as being the most appropriate for Storage and Forbearance projects to benefit community and fisheries/aquatic resources.

The Browns and Tule Creek watersheds are considered Severely Economically Disadvantaged Communities per the NCRP data map (located at https://northcoastresourcepartnership.org/data/). In addition to lack of domestic water, these communities have also suffered from wildfires that are increasing in

intensity and size during drought. A portion of the Tule Creek watershed was severely burned by the Monument Fire in 2021 and residents were evacuated from their homes. While these wildfires may not have burned their homes, the damaged forest can negatively impact the water source for many of the residents.

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.

    GOAL 1: INTRAREGIONAL COOPERATION & ADAPTIVE MANAGEMENT
    -Objective 1 - Respect local autonomy and local knowledge in Plan and project development and implementation

    GOAL 2: ECONOMIC VITALITY
    -Objective 4 - Ensure that economically disadvantaged communities are supported and that project implementation enhances the economic vitality of disadvantaged communities by improving built and natural infrastructure systems and promoting adequate housing

    GOAL 3: ECOSYSTEM CONSERVATION AND ENHANCEMENT
    -Objective 6 – Conserve, enhance, and restore watersheds and aquatic ecosystems, including functions, habitats, and elements that support biological diversity
    -Objective 7 - Enhance salmonid populations by conserving, enhancing, and restoring required habitats and watershed processes

    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

    GOAL 5: CLIMATE ADAPTATION & ENERGY INDEPENDENCE
    -Objective 11 - Address climate change effects, impacts, 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

8. Describe the Primary Benefit of the project.
   Quantified benefit: 140000
   Units (Drop down):Other If other please enter:gallons/year
   Benefit Type: Water Supply Reliability If other please enter:

9. Describe the Secondary Benefit of the project:
   Quantified benefit: 0
   Units (Drop down):Cubic feet per second If other please enter:

   Benefit Type: Ecosystem/Freshwater habitat If other please enter:

10. Please briefly describe how the project will achieve the claimed benefits.
    This project will achieve the claimed benefits through the use of water storage tanks and binding forbearance agreements in which the landowner agrees to not divert water from the stream or other surface water during the predetermined forbearance period. This project proposes 4 storage and forbearance projects that will result in the storage of 140,000 gallons of water for domestic use thus improving the water reliability for 4 families. This is in addition to 5 other projects in the watersheds. The typical household pump diverts around 8 gallons per minute, either on-demand or into temporary storage. While this is only 0.018 cubic feet per second, multiple household pumps running at the same time can cummulatively result in disconnected habitats for aquatic species during low-flow periods. The implementation of these 4 projects can reduce the cummulative impacts of water diversions by 0.07 cubic feet per second, which combined with the 5 other projects currently in progress is nearly 0.16 cubic feet per second, exemplifying the need to continue implementing these types of projects for instream habitat.

    Other such projects are being implemented in the Mattole Watershed, Humboldt County (https://sanctuaryforest.org/programs/water-stewardship/tanks-forbearance-program/), Navarro River, Mendocino County, and Redwood Creek-Eel River, Humboldt County, all of which have quantified the water savings from their projects. With the use of the Wildlife Conservation Board funding, the WRTC will establish targets and appropriate water savings estimates for our projects.

11. Briefly describe how the community/area benefiting from this project is being impacted by the current drought.
    In August 2014, Browns Creek (tributary to the Trinity River) dried up from the mouth upstream for 8 miles, resulting in over 60 households either losing or experiencing significant reductions of their prime source of domestic water. A few moderate to wet years following 2014 were not enough to replenish the watershed. Two years of drought (2020-2021) resulted in Browns Creek drying up again, this time by July 6. Over 50% of the residential parcels experienced a loss or significant reduction in domestic water availability, even springs that produced in 2014 dried up in 2021. Historically, snowpack in the headwaters supplied Browns Creek into the summer, but warming temperatures during the winter has resulted in less snowpack, flashier winter flows, and less stoarge of water for summer release. Tule Creek has experienced drying during the drought periods, leaving majority of the residents without their prime water source.

Within the Browns Creek watershed, the drought of 2021 resulted in a greater number of residents not having normal access to water for their domestic needs than the drought of 2014. The Browns Creek watershed has over 150 private residential parcels, the majority of which have riparian rights to Browns Creek or its tributaries, and many obtain their domestic water from seep wells or shallow springs. Some of these residents are on limited income thus struggle to pay for water deliveries. Tule Creek is a smaller watershed with less residential parcels, but the people living there have also suffered greatly during drought and are on limited income. Both Browns and Tule Creek watersheds have been identified through multiple planning efforts as being the most appropriate for Storage and Forbearance projects to benefit community and fisheries/aquatic resources.

The Browns and Tule Creek watersheds are considered Severely Economically Disadvantaged Communities (SDAC) per the NCRP data map (located at https://northcoastresourcepartnership.org/data/). In addition to lack of domestic water, these communities have also suffered from wildfires that are increasing in intensity during drought. A portion of the Tule Creek watershed was severely burned by the Monument Fire in 2021 and residents were evacuated from their homes. While these wildfires may not have burned their homes, the damaged forest can negatively impact the water source for many of the residents.

12. How will this project alleviate the impacts described in your answer to Question 11?

Participating landowners will have 35,000 gallons of water stored on-site for domestic needs during the hottest and lowest instream flow months of summer. This storage will provide 300 gallons or more per day for all domestic needs if managed appropriately throughout the forbearance period. Each participating resident will also be provided a CAL FIRE-approved stand pipe (basically a fire hydrant without pressure) that will help provide firefighters with emergency water access.

The benefit to aquatic organisms within the watersheds will increase as participation by landowners increases due to the reduction of direct withdrawal of water from the low flowing creeks. Allowing water to pass the points of diversion will cummulatively provide for connected habitats.

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	29,042	0	29,042
(b)	Land Purchase / Easement	0	0	**0**
(c)	Planning / Design / Engineering / Environmental Documentation	39,137	13,000	52,137
(d)	Construction / Implementation	215,084	32,263	247,347
	TOTAL COSTS	**283,264**	45,263	**328,527**

14. Please describe why state funding is needed for this project. If state funding is not secured, what will happen to the project?

    The economically disadvantaged community residents in the Browns and Tule Creek watersheds built their homes around the reliable supply of water from the streams. However, drought has increasingly made the water supply unreliable. Meanwhile, aquatic ecosystems are being decimated by the reduced streamflows. This project can alleviate social water reliability issues while increasing instream ecosystem function. If this project is not funded, we will continue planning for future projects, but people will continue to be without reasonable domestic water and aquatic organisms will continue to be decimated by human impacts on top of drought.

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 original grant the 5Cs and WRTC acquired reqired 15% matching funding from landowners for each implementation project, therefore in the attempt of complete fairness we have continued this request of landowners. We believe that we can ask landowners to contribute 10-15% of implementation costs in the future. We also currently have a planning grant with the CA Wildlife Conservation Board which we have matching funding for design and environmental compliance for approximately $13,000.

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.

    Landowner permissions are required to implement this project. We do not obtain landowner permission to construct until the landowner signs the Forbearance Agreement. We have multiple landowners interested in Storage and Forbearance projects, are holding discussions with these landowners, and are very confident that when the funds become available that they will sign forbearance agreements with us.

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

    A generic design for construction has been completed, however each project gets tailored to the individual water system and topography within reasonable adjustment to the general design. We've drawn 5 unique designs so far, but all have the same 35,000 gallons of water storage. Our design considers Trinity County and California building and grading codes.

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.

    CEQA is not required for this project since this project is an improvement on existing infrastructure. California Department of Fish and Wildlife 1600 permits (CDFW 1600) may be required if there is alteration to the existing diversion. The project does require a Department of Water Resources Small Domestic Use(DWR SDU) permit and the WRTC will work with the landowner to submit the initial application and assist with their first year of

submitting their Statement of Use. Other potential permits may be needed such as floodplain development permits, grading permits and such (though to date we have designed projects to avoid such needs). The cost for the CDFW 1600 and DWR SDU are requested in the Planning and Design budget category.

19. Please briefly describe the necessary construction/implementation for this project. Construction implementation costs include construction oversight (WRTC staff), engineering oversight, technician labor, heavy equipment construction (tank pad and trenching), plumbing and electrical construction (piping, pumps, electrical, etc.), plumbing parts (pipe, fittings, pumps, valves, floats, flow meters, etc), water tanks and delivery, agreggate (sand for under tanks and around pipes) and delivery, and sub-contractors. We recently implemented 3 of these projects and have 2 more under construction (all of our current implementation funds have been spent by December, 2021).

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	2/1/2022	3/31/2026
(b)	Land Purchase / Easement		
(c)	Planning/ Design / Engineering / Environmental Documentation	2/1/2022	12/31/2025
(d)	Construction/ Implementation	2/1/2022	2/15/2026

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: Weaverville CSD Drought Resliency & Water Reliability Project

2. Local Project Sponsor (if different than grantee): Weaverville Community Services District (WCSD)

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: 40.650929 Longitude: -122.941438

4. Please briefly describe the proposed project.

   Weaverville CSD's proposed East Branch East Weaver Creek (East Branch) drought resiliency and water reliability project consists of constructing a new water main and 2 fire hydrants to connect those in a critically underserved, high fire danger area in exchange for year-round forbearance of water rights. This project improves domestic water resiliency during drought, while also conserving instream flow for anadromous fisheries.

   The work proposed for East Branch consists of construction of ~2,100 ft of a 6' PVC main line trenched along East Branch Rd and 9 meters to deliver WCSD water to landowners for domestic needs and the installation of 2 fire hydrants in exchange for the year round forbearance of water rights to both Hansen Mine Ditch (collectively 1.25cfs) and riparian rights to East Branch Creek. Hansen Mine Ditch is an inefficient, open, high-maintenance ditch that diverts East Branch Creek water. Landowners would switch to the WCSD's more reliable, efficient source of potable water. The new hydrants will improve fire protection for 15-25 homes located in a fire prone area with only one escape route. Design and permitting are complete with a bid package already drafted, making this a shovel-ready project. This project was started with a previous partner grant but could not be implemented largely due to supply shortages and enormous price increases (152% increase since August 2020 for the 6" main line alone) caused in large part by COVID that exceeded the available budget and grant lifespan. The existing bid package would be quickly updated to facilitate speedy implementation of this project (expected completion within one construction season after execution of award). Budget estimates are based on bids received this summer with a small contingency in the event of further price increases. A new grant has been secured to help implement this project (see Q15). This project is the culmination of years of outreach to landowners in the watershed. Given their large collective water right and highly inefficient ditch, it was definitely viewed as a potential low hanging fruit. After several different approaches were considered and presented to

landowners over several years, this was the best, most efficient solution to preseve instream flow and provide landowners with a reliable water source. It should also be noted that this project is one of a few in the East Weaver Creek watershed designed to preserve flow for instream beneficial uses. There are additional projects underway by project partners that target water quality. Altogether, once completed these project are anticipated to have a synergistic effect to improve watershed conditions.

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.

   WCSD's proposed Drought Resliency & Water Reliability Project provides benefits to an underrepresented community facing a Human Right to Water challenge. East Weaver Creek is a coho salmon (federally listed as threatened) bearing stream in which a fish kill was documented on August 29, 2021, due to the lack of water. East Branch consists of constructing a 2,100 ft water main along East Branch Rd to landowners on East Branch East Weaver Creek in exchange for year round forbearance of water rights to Hansen Mine Ditch (collectively 1.25cfs) as well as 5 individual riparian rights. East Branch landowners with only riparian water rights have found it harder to meet their domestic needs and leave water for downstream users and instream needs in dry years.

   This project will preserve instream flow within East Branch East Weaver Creek, which enters East Weaver Creek immediately below the project location for this component. Both creeks are coho bearing streams challenged by low summer flows. The Water Supply Reliability benefit is achieved while also preserving instream flows in key coho bearing streams. East Branch landowners that have Hansen Mine Ditch rights have to undertake a significant amount of work to maintain the inefficient, open ditch and would prefer to have more reliable WCSD water. New hydrants will improve fire protection for 15-25 homes located in a fire prone area with only one escape route. Design and permitting are complete with a bid package already drafted, making this a shovel-ready project.

   Below is WCSD's Human Right to Water scoring relative to water quality, accessibility and affordability indicators. The proposed Drought Resliency & Water Reliability Project would help address physical vulnerabilities and improvements to built infrastructure by expanding WCSD service to additional households. The East Branch Rd service area is considered a Severely Economically Disadvantaged Community (SDAC) per the NCRP data map (located at https://northcoastresourcepartnership.org/data/). In addition to lack of domestic water during extended drought conditions, this community has also suffered from wildfires that are increasing in intensity during drought.

   HR2W: Water Quality Score (possible range: 0 - 4)
   WCSD's Water Quality Composite Score: 0.12
   Data Availability Score: 3
   This system had: 1-7 contaminants (out of 14) with req. data in study period.

   HR2W: Water Accessibility Score (possible range: 0 - 4)
   WCSD's Water Accessibility Composite Score: 0.50
   Physical Vulnerability to Water Outages Score: 0.50

HR2W: Water Affordability
This system serves 3,554 people.
WBCSD's Water Affordability Composite Score is: 2

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.

    GOAL 2: ECONOMIC VITALITY [Project supports DACs with project implementation that inproves the built infrastructure by expanding WCSD service to additional households.]
    -Objective 4 – Ensure that economically disadvantaged communities are supported and that project implementation enhances the economic vitality of disadvantaged communities by improving built and natural infrastructure systems and promoting adequate housing
    -Objective 5 – Conserve and improve the economic benefits of North Coast Region working landscapes and natural areas

    GOAL 3: ECOSYSTEM CONSERVATION AND ENHANCEMENT [Targeted communities rely on natural resource based economies that will benefit from enhanced instream flow. Enhanced instream flow also benefits aquatic and riparian habitats and species including that of federally listed coho salmon.]
    -Objective 6 – Conserve, enhance, and restore watersheds and aquatic ecosystems, including functions, habitats, and elements that support biological diversity
    -Objective 7 – Enhance salmonid populations by conserving, enhancing, and restoring required habitats and watershed processes

    GOAL 4: BENEFICIAL USES OF WATER [East Branch residents will have improved water supply reliability while preserving water previously diverted through an inefficient ditch for instream flow.]
    -Objective 8 – Ensure water supply reliability and quality for municipal, domestic, agricultural, Tribal, and recreational uses while minimizing impacts to sensitive resources

    GOAL 5: CLIMATE ADAPTATION & ENERGY INDEPENDENCE [The East Branch community

has experienced drought regularly in the last 10 years and more. This project will improve water supply reliability for these residents.]
-Objective 11 – Address climate change effects, impacts, 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
-Objective 12 – Promote local energy independence, water/ energy use efficiency, GHG emission reduction, and jobs creation

GOAL 6: PUBLIC SAFETY [The East Branch community is a fire prone area, only has one viable ingress/egress point, and would benefit from installation of fire hydrants to expand fire fighting capacity.]
-Objective 13 – Improve flood protection, forest and community resiliency to reduce the public safety impacts associated with floods and wildfires

8. Describe the Primary Benefit of the project.
   Quantified benefit: 1
   Units (Drop down):Cubic feet per second If other please enter:

   Benefit Type: Water Conservation If other please enter:

9. Describe the Secondary Benefit of the project:
   Quantified benefit:
   Units (Drop down):Other If other please enter:multiple see Q10
   Benefit Type: Water Supply Reliability If other please enter:

10. Please briefly describe how the project will achieve the claimed benefits.
    East Branch consists of constructing a 2,100 ft water main along East Branch Rd to landowners on East Branch East Weaver Creek in exchange for year round forbearance of water rights to Hansen Mine Ditch (collectively 1.25cfs) as well as 5 individual riparian rights. This will preserve instream flow within East Branch East Weaver Creek, which enters East Weaver Creek immediately below the project location for this component. Both creeks are coho bearing streams challenged by low summer flows. The Water Supply Reliability benefit is achieved through the East Branch water main extension. This would improve reliability while also preserving instream flows in key coho bearing streams. East Branch landowners that have Hansen Mine Ditch rights have to undertake a significant amount of work to maintain the inefficient, open ditch and would prefer to have more reliable WCSD water.

11. Briefly describe how the community/area benefiting from this project is being impacted by the current drought.
    The Trinity River watershed has had two Critically Dry consecutive water years in 2021 and 2020. In the last 10 water years, 60% have been dry: 40% Critically Dry; and 20% Dry. The County has issued drought declarations multiple times in that period. The WCSD recognizes the importance of preserving instream flow for aquatic species and instream habitat yet also has to meet the needs of the community. It is becoming more and more challenging to balance those needs as drought conditions become more common and seem to be the new normal. East Branch landowners with only riparian water rights have found it harder to meet their domestic needs and leave water for downstream users and instream needs in dry years.

12. How will this project alleviate the impacts described in your answer to Question 11?

The construction of the water main along East Branch Rd would improve reliability of water to those landowners, particularly those with only riparian rights.

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	20,100	4,100	**24,200**
(b)	Land Purchase / Easement			
(c)	Planning / Design / Engineering / Environmental Documentation	75,900		**75,900**
(d)	Construction / Implementation	404,000	75,000	479,000
	TOTAL COSTS	500,000	79,100	**579,100**

14. Please describe why state funding is needed for this project. If state funding is not secured, what will happen to the project?

WCSD is a small, rural district with relatively low water rates and does not have the funds to undertake these projects without outside funding. If this proposal is not funded, other funds will have to be pursued, which would delay the implementation of the proposed project. This would delay the year-round forbearance of 1.25cfs of water in the East Branch East Weaver Creek coho bearing stream that regularly experiences challenges from low flow and prevent the WCSD from being able to start the processes of reducing reliance on East Weaver Creek. It took landowners on East Branch several years to come around to the idea of doing this kind of implementation approach that would require them having to forbear their water rights. The support is there now to finish the project. WCSD would like to act quickly to avoid having to spend more effort re-engaging landowners.

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.

Yes. A grant from the US Fish & Wildlife Service has been secured by a project partner that has $75,000 budgeted for the East Branch 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.

The East Branch project requires landowner permission. All landowners have agreed to the design of the project to/on their individual parcels. Landowners have reviewed draft landowner forbearance/permission agreements. All but one landowner has emailed their concurrence with the terms of the agreement. The remaining landonwer is still reviewing the terms, but has expressed support via email for the project. If selected, landowner agreements will be finalized and executed within 2 months of Agreement Start Date.

17. Has planning and design for this project been completed? If not, please describe the status of planning and design.
    East Branch planning and design are complete except for execution of landowner agreements (see previous Q16).

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.
    Yes. East Branch CEQA has been completed (SCH#2021060491) and NEPA is addressed through the 2000 Trinity River Mainstem Fishery EIS/EIR and 2009 Channel Rehabilitation and Sediment Management for Remaining Phase 1 and Phase 2 Sites Master EIR.

19. Please briefly describe the necessary construction/implementation for this project.
    This project involves tying into the existing 8" WCSD main line and extending a 6" C900 main line ~2,100 ft up East Branch Road. The project includes installing 9 meter boxes, backflow preventers as necessary and two fire hydrants. Installation of the main line includes sawcutting road surface, laying pipe, backfilling and compacting with imported fill, resurfacing road, pressure testing and disinfecting new main line. Detailed construction plans and specifications are available upon request.

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	4/1/2022	12/31/2024
(b)	Land Purchase / Easement		
(c)	Planning/ Design / Engineering / Environmental Documentation		
(d)	Construction/ Implementation	7/15/2022	10/15/2022

PROJECT INFORMATION FORM

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

1. Project Name: MWCD-Main Canal Lining for Instream Benefit

2. Local Project Sponsor (if different than grantee): Montague Water Conservaiton 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: 41°37'51.07" Longitude: 122°22'22.62"

4. Please briefly describe the proposed project.

   Montague Water Conservation District is an irrigation district that owns and operates Dwinnell Reservoir on the Shasta River, a critical tributary to the Klamath River. The District delivers water via a main canal to properties in the northern part of the Shasta Valley. This project will line 6,000' of MWCD's main canal where significant transmission or delivery loss occurs to improve water supply reliability for agriculture, municipal users and enhance instream conditions to benefit salmonids. In exchange for lining reaches of MWCD's main canal, MWCD will permanently allocate the volume of water conserved, estimated at 660 AFY, for instream benefit. The public benefit results in increased and more flows for fish and wildlife, a public trust resource.

   The City of Montague and Shasta Valley, Siskiyou County, California, are recognized as Disadvantaged Communities and are the population directly served by this project. Indirectly, the project benefits other disadvantaged fishing dependent and Tribal communities through enhancement of instream habitat for steelhead, lamprey, Chinook and coho salmon. The project also benefits fishing dependent communities that depend on Klamath stocks of salmon on the northern California Coast.

   This project is located in Shasta Valley grounwater basin (1-004), which is a medium priority basin as identified by the CASGEM program. Siskiyou County Flood Control and Water Conservation District, which serves as the Groundwater Sustainability Agency (GSA) for the Shasta Valley groundwater basin, is in strong support of this project. As indicated in the attached letter of support, the project would benefit the Shasta Valley groundwater basin and the Shasta River watershed, and assist the GSA in reaching its groundwater sustainability goals. (See attached GSA letter of support).

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.

   This funding request is for the last section of approved and permitted unlined canal in the southern reach of the main canal. While increasing delivery dependability to agriculture and municipal water for the City of Montague, this proposal presents numerous opportunities to enhance instream conditions in the most important spawning and rearing reach of the Shasta River, specifically for the listed SONCC Coho salmon. The limited storage this year was used for human consumption, instream enhancement and fire protection. The newly lined 1.3

miles of canal was able to speed up delivery time and conserve water through reduced conveyance. Conserved water was used supply water to the City of Montague where no alterantives exisited, meet instrem flow objectives in the Shasta River and provide weeks of water for wildfire and strucuture protection on the nearby Lava and Antelope Fires.

The Shasta River just experienced the driest water year on record preceeded by a critical dry year in 2020. MWCD's Dwinnell Reservoir dropped to 4% capacity on October 1, 2021 (full capacity is 49,000 af). MWCD stores water during the winter and spring to provide irrigation water, municipal and water for released for instream benefit. MWCD is working with CDFW and NOAA to provide identifed instream flows volumes to benefit Threatened Coho Salmon and other cold water depenedent species in the Shasta River. MWCD has an Operation's Plan that dictates priority use based on available water in storage. MWCD also has developed water years types to inflorm it's operations plan. Over the past two years, MWCD has had extreme difficulty meeting instream and municipal responsibilities, providing less than than 20 days of irrigation to MWCD users. Increased delivery efficiency and resulting dependable instream dedication is a preferred method to conseve water lost to deep perculation and provide it to the Shasta River below Dwinnell Reservoir for instream benenfit. MWCD has worked with CDFW and NOAA to develop a year round release schedule to benefit Coho Salmon and other cold water dependent species in the Shasta River. Through water conservation, MWCD is working with agencies and neighboring ranching entities to enhance the Shasta River to provide for year round habitat even in the most extreme drought conditions. MWCD's efforts are already providing flow and water quality enhancements while imporving resiliency for multiple benefical uses through storage of winter flows while committing to meet annual flow and municipal responsibilities. This funding request is for the last section of approved and permitted unlined canal in the southern reach of the main canal.

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.

    GOAL 1: INTRAREGIONAL COOPERATION & ADAPTIVE MANAGEMENT
    -Objective 1 - Respect local autonomy and local knowledge in Plan and project development and implementation
    -Objective 2 - Provide an ongoing framework for inclusive, efficient intraregional cooperation and effective, accountable NCRP project implementation
    -Objective 3 - Integrate Traditional Ecological Knowledge in collaboration with Tribes to incorporate these practices into North Coast Projects and Plans

    GOAL 2: ECONOMIC VITALITY

-Objective 4 - Ensure that economically disadvantaged communities are supported and that project implementation enhances the economic vitality of disadvantaged communities by improving built and natural infrastructure systems and promoting adequate housing
-Objective 5 - Conserve and improve the economic benefits of North Coast Region working landscapes and natural areas

GOAL 3: ECOSYSTEM CONSERVATION AND ENHANCEMENT
-Objective 6 – Conserve, enhance, and restore watersheds and aquatic ecosystems, including functions, habitats, and elements that support biological diversity
-Objective 7 - Enhance salmonid populations by conserving, enhancing, and restoring required habitats and watershed processes

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 9 - Improve drinking water quality and water related infrastructure to protect public health, with a focus on economically disadvantaged communities

GOAL 5: CLIMATE ADAPTATION & ENERGY INDEPENDENCE
-Objective 11 - Address climate change effects, impacts, 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
-Objective 12 - Promote local energy independence, water/ energy use efficiency, GHG emission reduction, and jobs creation

GOAL 6: PUBLIC SAFETY
-Objective 13 - Improve flood protection, forest and community resiliency to reduce the public safety impacts associated with floods and wildfires

PROJECT BENEFITS TO DISADVANTAGED COMMUNITIES AND TRIBES:
MWCD is the sole provider of municipal water to the 1,400+ residents in the City of Montague as well as irrigation water for 15,500 acres surrounding Montague in the Shasta Valley. Two hundred twenty families depend on MWCD to deliver water to contribute to thier income base. MWCD also provides releases for instream benefit that supports natural resources and coastal communities that depend on commercial and recretional fishing.

The City of Montague and Shasta Valley, Siskiyou County, California, are recognized as Disadvantaged Communities and they are the population directly served by this project. Indirectly, the project benefits other disadvantaged fishing dependent and Tribal communities through enhancement of instream habitat for steelhead, lamprey, Chinook and coho salmon. The project also benefits fishing dependent communities that depend on Klamath stocks of salmon on the northern California Coast.

8. Describe the Primary Benefit of the project.
   Quantified benefit: The primary benefit of this project will provide 660 AFY of conserved water that will be permanatly dedicated to an instream flow schedule approved by State and Federal agencies while maintaining water deliveries for agriculture and municipal purposes. Increased flow will improve stream habitat for up to six miles of the Shasta River throughout the year. This project implements recommendations by NOAA and CDFW to enhance habitat for coho, steelhead, and Chinook along with other aquatic species in the Shasta River. This project will provide for long term delivery efficiency, and increased dependability of all beneficial uses of water in the Shasta River, while also meeting instream flow objectives especially during drought years.
   Units (Drop down):Acre feet per year If other please enter:
   Benefit Type: Water Conservation If other please enter:

9. Describe the Secondary Benefit of the project:
   Quantified benefit:
   This project will provide up to 6.0 cfs of cold water for instream over summering habitat in the Shasta River for coho, steelhead, and Chinook along with other aquatic species. The project will also increase delivery dependability to MWCD's irrigation and municipal water for the City of Montague, helping MWCD meet its multiple delivery objectives. Secondary benefits also include flood protection for infrastrucutre and communities downstream of Dwinnell Reservoir.
   Units (Drop down):Cubic feet per second If other please enter:
   Benefit Type: Ecosystem/Habitat Restoration If other please enter:Municipal and flood protection

10. Please briefly describe how the project will achieve the claimed benefits.
    One of the critical limitations of MWCD in meeting demand is the inefficiency of the main canal where 28% of the flow in the canal is lost over the most ineffiicent 8.4 miles of the main canal. Further, the canal inefficiencies are often exacerbated in drought years as earthen ditches crack and leak even more. By lining 6,000' feet of main canal, MWCD proposes to permanently dedicate another 660 AFY of conserved water to instream benefit as a direct result of this project.

11. Briefly describe how the community/area benefiting from this project is being impacted by the current drought.
    The Shasta River just experienced the driest water year on record preceeded by a critically dry year in 2020. The System was identified in the State Water Resources Control Board SAFER assessmetn as a system at risk of be3ing able to continue to provide safe drinking water. Montague Water Conservation District was able to aquire an emergency petition to supply water to the City of Montague via the Shasta River as a conduit which also provided instream flow for 23 miles of the Shasta River before being diverted for the City of Montague. The conserved water was also used in fire protection during the Lava and Antelope Fires. The Shasta River Dam No. 60.000-Dwinnell Reservoir-Lake Shastina was also used during this current drought to supplement flows to reach curtailment flow targets for migrating salmon.

12. How will this project alleviate the impacts described in your answer to Question 11?
    The project will increase delivery efficiency and use the conserved watr to meet instream flow objectives and municipal needs for the City of Montague. All of the water conserved will be provided for instream use to reduce the conflict between agricultural, municipal and instream uses in the the Shasta River. Infrastructure improvements attain efficient delivery and operations within MWCD facilities, help MWCD meet multiple use objectives with limited water resources, especially during drought conditions.

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	30,000		
(b)	Land Purchase / Easement			
(c)	Planning / Design / Engineering / Environmental Documentation	40,000		
(d)	Construction / Implementation	900,000		

	TOTAL COSTS	**970,000**		

14. Please describe why state funding is needed for this project. If state funding is not secured, what will happen to the project?

    Local funding is not available for implementation of canal lining. If State funding is not secured, the project will be delayed until MWCD is able to secure other State or Federal grant funds to support implementation. If a reduced amount is awarded, MWCD could reduce the extent of canal lining that is installed; however, any reduction in canal lining would have a corresponding reduction in conserved water that will be permanatly dedicated for instream benefit.

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.

    MWCD is seeking implementation funds to cost share to line 6,000' of MWCD's main canal where significant transmission or delivery loss occurs. In exchange for lining reaches of MWCD's main canal, MWCD will permanently allocate the volume of water conserved, estimated at 660 AFY, for instream benefit. MWCD is working with the SWRCB to protect the conserved water for instream use through California Water Code 1707 and change petitions. MWCD has been conducting investigations, has engineered designs and has been meeting with agencies over the last decade to refine the scope and accomplish attainable objectives identified in MWCD's long term conservation and operations plans. MWCD is working with CDFW and NOAA to provide idendtifed instream flows volumes to benefit Threatened Coho Salmon and other cold water depenedent species in the Shasta River. Water provided to the City of Montague via the Shasta River from Dwinnell Reservoir enhances instream flow objectives while effieiecntly deliverng water to the City of Montague.

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.

    MWCD has an easement along the canal and has reached out to all landowners and notified them of the project. All landowners have responded that they are aware and allowing of the project.

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

    Yes- MWCD will retain the designing Engineering Firm, Rh2 Engineering, to oversee implementation of the project and provide as-built plans.

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.

    MWCD has an approved CEQA exemtpion for canal lining.

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

    The exsiting canal reaches proposed for lining are currently earthen canals. Signifncant seepage loss occurs as a result of the pourous ditches. MWCD proposes to line the earthen ditches by first creating improved access on exisitng maintenance roads to provide access for concrete trucks. Using heavy equipment, the canal is then reprofiled and graded to form and trapezodal shaped canal with a constant slope. When the canal is shaped and refined, a geomembrane liner is placed in the canal and the sides of the liner are staked. The final step includes a concrete truck feeding a concrete pump that prssure blasts the concrete against the geomembrane liner. The shotcrete is sprayed on with a crew of laborers. The shotcrete is expected to provide 40-70 years of effective life. MWCD has some reaches of canal lining that have been effective for nearly 60 years.

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	7/1/2022	2/1/2024
(b)	Land Purchase / Easement		
(c)	Planning/ Design / Engineering / Environmental Documentation	9/1/2022	4/1/2023
(d)	Construction/ Implementation	10/1/2022	11/1/2023

COUNTY OF SISKIYOU

Flood Control & Water Conservation District

P.O. Box 750 ● 1312 Fairlane Road, Yreka, CA 96097
Phone: (530) 842-8012, Fax Number: (530) 842-8013

January 4, 2022

Financial Assistance Branch
Department of Water Resources
PO Box 942836
Sacramento, CA 94236
Attention: Round 2 IRWM Implementation Grant Program

Re: Support of MWCD's North Coast Regional Partnership Proposal

To Whom It May Concern:

The Siskiyou County Flood Control and Water Conservation District, which acts as the Groundwater Sustainability Agency (GSA) for the Shasta Valley groundwater basin, is in strong support of the Montague Water Conservation District's (MWCD) proposal, **Montague Water Conservation District, Main Canal Lining for Instream Benefit,** benefitting the Shasta Valley groundwater basin and the Shasta River watershed, a key Klamath River tributary.

In-stream flow and water quality needs often conflict with irrigation demands in the Shasta River. MWCD is the largest irrigation district in the watershed and the only entity with significant storage on the Shasta River. MWCD owns and operates Dwinnell Reservoir, with a storage capacity of 49,000 acre-feet. In addition to providing irrigation water, MWCD supplies municipal water to the City of Montague and is working to secure State Water Resources Control Board's approval to also provide conserved water to fish and wildlife through improving delivery efficiency of MWCD's main canal.

MWCD has long worked with the California Department of Fish and Wildlife, NOAA Fisheries and other partners to develop a comprehensive water-conservation strategy to enhance in-stream flows to protect and enhance Shasta River fisheries. The proposed project enhances flows in the Shasta River throughout the calendar year based upon an agency approved flow schedule that improves conditions for Threatened Coho Salmon and other cold water dependent species.

Through this grant application, the District is seeking funding to line a 6,000' reach of MWCD's Main Canal where significant seepage loss occurs. In exchange for lining a reach of MWCD's Main Canal, MWCD will permanently dedicate 660 acre-feet annually for in-stream benefit. The proposed project also increases the reliability of deliveries for irrigation and municipal purposes.

Updating the District's infrastructure will conserve water, assist the GSA in reaching its groundwater sustainability goals, enhance imperiled salmon runs and move the community toward resolve of long-running local conflicts. This project is a wise, long-term investment that has gained broad support. The Siskiyou County Flood Control and Water Conservation District approved this letter on January 4, 2022, by the following vote:

AYES: Directors Criss, Valenzuela, Ogren and Kobseff
NOES:
ABSENT: Director Haupt
ABSTAIN:

Sincerely,

DocuSigned by:
Brandon A. Criss
A1160BC51036457...

Brandon A. Criss, Chair
Siskiyou County Flood Control and Water Conservation District

PROJECT INFORMATION FORM

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

1. Project Name: Redwood Creek, South Fork Eel Storage and Forbearance Program

2. Local Project Sponsor (if different than grantee): Salmonid Restoration Federation (SRF)

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: 40.105140° Longitude: -123.902005°

4. Please briefly describe the proposed project.

   SRF's proposed Storage and Forbearance Program will address drought impacts on the Briceland community as well as local fish and wildlife by designing and constructing water storage and water supply systems for residents that do not get their water from the Briceland Community Services District. Approximately five sites with ~250,000 gallons of total storage would be designed and permitted to ensure that flow augmentation remains instream to benefit salmonids. SRF will manage program implementation including: landowner coordination, permit compliance support, and ongoing community outreach. The program will identify and design strategic storage and forbearance opportunities along Redwood Creek within the vicinity of the town of Briceland and downstream. Redwood Creek suffers from impaired flows and lack of adequate water infrastructure given the level of human consumptive water use in the area.

   Since 2013, SRF has been monitoring low flows in Redwood Creek and in 2021 flows were lower than during the extended drought years. Several of our monitoring sites on the mainstem were dry and disconnected by April. According to the California Water Action Plan, the South Fork Eel River is considered one of five priority watersheds for flow enhancement projects in California. Redwood Creek is a critical tributary to the South Fork Eel River because of its high potential for salmonid recovery. Lack of instream flows is a primary limiting factor for salmonids and contributes to lack of water reliability for rural landowners. Drought conditions in this water year impacted flows, fire protection resources, water availability and water quality. Please see the SRF Redwood Creek page to see the low flow trajectory for 2021 and previous years. https://www.calsalmon.org/programs/redwood-creek-low-flow-monitoring

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.

Redwood Creek is a critical tributary for Coho salmon since it retains high habitat potential legacy impacts and countless water diversions. Coho are listed as threatened species and the South Fork Eel River is key to recovery of the species in the SONCC Evolutionary Significant Unit (ESU). The SF Eel is also considered one of five priority watersheds in the state for flow enhancement projects according to the California Water Action Plan. The lack of adequate instream flows in Redwood Creek has become an emergency for fire safety, water supply reliability, and for salmonid species dependent on cool water for their survival.

This project would address these urgent issues by building capacity for residents to capture rainfall and runoff during the winter and store the water for summer use in key reaches of Redwood Creek where instream flows during the dry summer months would provide habitat connectivity for juvenile salmonids and other aquatic species. The project would also improve fire safety for participating landowners and the greater community.

The project provides direct water-related benefits to the residents located in and adjacent to the town of Briceland, California. The United States Census data for area code 95542, which is the zip code used for Briceland mail, states that the median income is $30,505. The NCRP data map (located at https://northcoastresourcepartnership.org/data/) demonstrates that this area is an "economically distressed area" and surrounded by areas labeled as "severely economically disadvantage community", but it is not listed as an SDAC. Lastly, Briceland CSD conducted an informal survey of its customers in 2021 and concluded the average household income of its customers was $36,726. The proposed SRF Storage and Forbearance Program would serve residents that do not get their water from the Briceland CSD and are therefore further disadvantaged as it relates to water supply and reliability. Based on all of the information outlined above, SRF considers the benefits to the project area to be entirely comprised of a severely disadvantaged community.

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.

GOAL 1: INTRAREGIONAL COOPERATION & ADAPTIVE MANAGEMENT
-Objective 2 – Provide an ongoing framework for inclusive, efficient intraregional cooperation and effective, accountable NCRP project implementation

GOAL 2: ECONOMIC VITALITY
-Objective 4 – Ensure that economically disadvantaged communities are supported and that project implementation enhances the economic vitality of disadvantaged communities by improving built and natural infrastructure systems and promoting adequate housing
-Objective 5 – Conserve and improve the economic benefits of North Coast Region working landscapes and natural areas

GOAL 3: ECOSYSTEM CONSERVATION AND ENHANCEMENT
-Objective 6 – Conserve, enhance, and restore watersheds and aquatic ecosystems, including functions, habitats, and elements that support biological diversity
-Objective 7 – Enhance salmonid populations by conserving, enhancing, and restoring required habitats and watershed processes

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 9 – Improve drinking water quality and water related infrastructure to protect public health, with a focus on economically disadvantaged communities
-Objective 10 – Protect groundwater resources from over-drafting and contamination

GOAL 5: CLIMATE ADAPTATION & ENERGY INDEPENDENCE
-Objective 11 – Address climate change effects, impacts, 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

GOAL 6: PUBLIC SAFETY
-Objective 13 – Improve flood protection, forest and community resiliency to reduce the public safety impacts associated with floods and wildfires

8. Describe the Primary Benefit of the project.
   Quantified benefit: 250,000
   Units (Drop down): If other please enter: gallons
   Benefit Type: Other If other please enter: water storage to reduce summer diversion demand.

9. Describe the Secondary Benefit of the project:
   Quantified benefit: 5
   Units (Drop down): If other please enter: plumbing infrastructure and hydrants
   Benefit Type: Other If other please enter: Fire suppression systems

10. Please briefly describe how the project will achieve the claimed benefits.
    SRF will identify, plan, permit, and implement water storage projects on five properties

totaling a minimum of 250,000 gallons of water storage in tanks and small ponds in order for participating landowners to forbear from diverting surface water during the dry summer months. Each system will be equipped with plumbing and hydrant hookups to be able to add a fire safety component to this multiple-benefit project.

11. Briefly describe how the community/area benefiting from this project is being impacted by the current drought.

    Redwood Creek in the South Fork Eel River watershed is greatly impacted by the current drought. SRF has been monitoring low flows in this watershed since 2013 and the dry season of 2021 was the driest year on record with Redwood Creek becoming disconnected stranding juvenile salmonids. Redwood Creek is an underserved community with approximately 400 parcels but with only one water services district for residents within the watershed. This storage and forbearance effort would provide storage to residents not covered under Briceland Community Services District and who currently rely on Redwood Creek for their water source.

12. How will this project alleviate the impacts described in your answer to Question 11?

    This project would alleviate the drought impacts by ensuring that landowners who divert directly from Redwood Creek would not be diverting during the summer months when flows and water quality are most impaired. By storing water during the winter months for use during the summer, participating landowners would have water supply reliability and the benefits of the Marshall Ranch Flow Enhancement Project would remain instream.

13. Please complete the following budget table for the project.

	BUDGET CATEGORY	Grant Amount	All Other Cost	Total Cost
(a)	Project Administration	50,000	50,000	100,000
(b)	Land Purchase / Easement	0	0	0
(c)	Planning / Design / Engineering / Environmental Documentation	150,000	100,000	250,000
(d)	Construction / Implementation	300,000	0	300,000
	TOTAL COSTS	500,000	150,000	650,000

14. Please describe why state funding is needed for this project. If state funding is not secured, what will happen to the project?

    State funding is needed for this project in order to identify and design projects at the most strategic locations to optimize instream flow benefits. Participating landowners are unlikely to have the means or incentive to site, design, permit, and build a 50,000-gallon tank without financial and technical assistance. If state funding is not secured, SRF will continue with targeted education and outreach, work with agencies to have a more complete

understanding of winter water availability, and continue to apply for funding for this important phase of the program.

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.

    SRF is hopeful that cost share will be available through the North Coast Salmon Recovery PSN (full proposal to be submitted in December). If we are able to secure this cost-share, we would also be able to utilize the streamlined permitting associated with this solicitation that is part of the *Cutting the Green Tape initiative.* This would be a great opportunity to utilize programmatic permitting for multiple water tanks on different parcels.

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.

    Landowner permission and access will be required. If funded, SRF will secure landowner permission and access agreements for all project sites.

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

    Preliminary planning for this project is underway through the Redwood Creek Feasibility Study that Stillwater Sciences is preparing for SRF that includes a hydrologic analysis, a water availability analysis, and prioritization of projects. Through the completed water availability analysis, a list of current riparian water rights holders have been identified and will be targeted for participation in this storage and forbearance program. The feasibility study has identified the highest priority reach for storage and forbearance which is adjacent to and just downstream from the town of Briceland and includes approximately 15 water users that divert from Redwood Creek during the dry season. Designs for specific properties have not yet been completed for this project.

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.

    CEQA isn't complete and the project will likely require CEQA. Additionally, the project will require a CDFW LSAA, water rights (likely a Small Domestic Use Registration), and potentially a Humboldt County Grading Permits. Costs for all CEQA and permitting activities are included in the budget.

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

    Construction/implementation will include the following:
    The storage and forbearance construction will require heavy equipment and labor for site preparation and installation of ponds/tank systems. Materials will include 50,000 gallons of tank storage capacity, pond liners, rock for the tank pads and pond spillways, and

plumbing/electrical materials needed for the water management 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	1/1/2022	3/1/2026
(b)	Land Purchase / Easement		
(c)	Planning/ Design / Engineering / Environmental Documentation	1/1/2022	7/1/2023
(d)	Construction/ Implementation	7/1/2023	2/1/2026

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: Scott River Tailings Restoration, Long Pond Implementation, Phase 1

2. Local Project Sponsor (if different than grantee): Scott River Watershed Council

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: 41.354109 Longitude: -122.825372

4. Please briefly describe the proposed project.

   The Project will construct and enhance habitat features to offer drought and climate change refugia for aquatic species in the Scott Watershed and to create resilience and invigorate positive ecological responses towards the recovery of listed anadromous salmonid species. The Project will create 1 acre of complex, cold water refugia habitat for Coho Salmon with a science-based engineered design. The Technical Advisory Committee (CDFW, NMFS, NCRWQCB, UCD, SRWC, Stillwater Sciences) selected the 80-percent exceedance water surface elevation to provide a minimum inundation depth of 0.5 feet even during drought. This will offer suitable summer rearing habitat for Coho when most other Scott River summer habitat is dry or has lethal conditions.

   The Scott River Watershed Council (SRWC), in collaboration with other key stakeholders, implemented the Westside Planning Project in 2018 (SRWC 2018). The project identified and prioritized high value, cost-effective opportunities to restore and enhance off-channel summer rearing and overwintering habitat for juvenile coho salmon (Oncorhynchus kisutch) in the Scott River and the west side tributaries to Scott Valley. The Long Pond project was identified as a priority action during the planning project and will further enhance the complex mosaic of existing and restored aquatic and riparian habitat in the area. This project was identified by a member of the Groundwater Sustainability Agency who is a leader of the community and the community engagement and support is strong. Stillwater Sciences supported SRWC with science-based engineering analysis and design development for the Project. An analysis of factors limiting coho salmon in the Scott River identified a lack of suitable rearing habitat during the summer and winter months as the most probable limitation for smolt production and the factor most limiting the population (SRWC 2006, NMFS 2014). This limiting factor is greatly exacerbated during drought and is anticipated to become ever more critical with the climate change driven decline in snowpack, decrease in summer steam flow and higher stream temperatures. Cold water off-channel habitats are particularly important for survival, growth, high flow refuge, and overall life history diversity of juvenile coho in

the Project area during drought. These include habitats with slow-moving water, complex cover, and abundant food availability that are typically associated with floodplain wetlands and backwaters, secondary channels, alcoves, beaver ponds, and low-gradient tributaries. As water temperatures increase during drought and climate change, individuals redistribute to thermal refugia with suitable low velocities and water temperatures. This Project was designed with these factors in mind and the depth of the habitat features targeted to remain wetted during drought conditions. The constructed habitat will lie within the cold groundwater of the Tailings, which 5 years of monitoring has shown will sustain suitable water quality even during extreme drought. The tailings extend for 6 miles and are essentially a 40-foot wide pile of cobbles and tailings. The area is particularly complex and difficult to work in since there is a lot of material to be moved and remediated and there is a strong planting element. This complexity is also the strength of the project area, because of the hyporheic cooling and filtering that occurs as groundwater flows throughout the tailings pile. Suitability of the water for use as salmonid refuge has been demonstrated by increased spawning and return of prior projects in this zone.

The Phase 1 of this Project, proposed to be implemented with the requested funding, will create 1 acre of cold water refugia habitat. Future phases will connect to an additional acre of existing, but currently disconnected, cold water pond habitat. The Long Pond project site is located within the existing and former floodplains of the Scott River and Sugar Creek, near the Sugar Creek confluence approximately 2.5 miles north (downstream) of the town of Callahan in Siskiyou County, California. The project area encompasses dredged mine tailings and associated ponds, as well as an approximately 800-foot ft.-long reach of the Sugar Creek channel immediately downstream of State Route 3.

Remediation of the Tailings Reach has been identified in both the State and Federal coho recovery plans as a high priority restoration action for the recovery of coho salmon (CDFG, 2004). The SONCC Coho Salmon Recovery Plan (NMFS 2014) prioritizes recovery actions that (1) enhance and extend surface flow connectivity in the Scott River and tributaries so that sufficient instream flows are available for coho salmon migration, and (2) increase summer and winter rearing habitat through increased floodplain connectivity. NMFS recommends improving summer and winter rearing habitat by restoring natural channel form and function and by restoring or creating ponds, alcoves, backwater habitats and other off-channel features. This Project will achieve those objectives.

Primary design elements of Phase 1 include: 1) Primary connection channel and rearing area. The channel is designed to connect Sugar Creek to newly connected habitat and will have variable benched widths and side slopes.The channel has been designed to match the existing pool depth within Sugar Creek, and thus provide deeper rearing area depths (e.g. approximately 6 feet at the 80-percent exceedance water surface elevation); 2) Multiple and variable connections in addition to the primary channel. An additional connection between Sugar Creek and the proposed rearing channel area is included to further increase salmonid ingress and egress opportunities. The increased number of connections provides for a higher level of resiliency in the design to possible change in Sugar Creek channel form from episodic erosion and deposition events and low flow conditions; 3) Large wood features are included in the designs to provide immediate habitat benefits; 4) Healthy soil and

water retention capacity development. Whole trees and associated smaller coarse woody materials (e.g., branches and shrubs) removed as part of clearing for project grading plan implementation will be salvaged and stockpiled for reuse in the project. Two habitat features, referred to in the design plans as nurse logs and brush trenches, are proposed that incorporate these materials salvaged on site. The purpose for incorporating these materials into the proposed design features is primarily to increase soil organic and nutrient content and increase soil moisture capacity, as recommended by the Project Technical Advisory Committee (TAC); 5) Native planting and seeding. A preliminary native planting zone palette was developed for the revegetation following completion of the grading work. The palette zonation is based on the habitat conditions that are likely to occur and that provides for the long-term physical and biological habitat attributes necessary to sustain robust salmonid rearing conditions. The plants and seeds proposed for the two zones, classified as riparian forest and emergent wetland bench habitats, include species commonly found in healthy similarly classified habitat areas near the project area.

The primary design elements of the Project are intended to target the enhancement objectives, provide near-term immediate ecological uplift that will mitigate drought conditions, and establish a longer-term process driven trajectory that achieves a self-sustaining and more robust functional state within the site. The Project will provide immediate refugia habitat for Coho Salmon, as well as all aquatic species, while long term ecological objectives are achieved. References, 90% engineered designs and the Basis of Design report are available upon request.

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.

   The Scott River Watershed has been in extreme or exceptional drought in the 2020 and 2021 water years. A curtailment of all water rights (ground and surface water) was imposed by the Regional Water Board on September 10, 2021 based on a request by the California Department of Fish Wildlife determination that the drought conditions were imposing an immediate critical threat to salmon and all groundwater dependent ecosystems (https://www.waterboards.ca.gov/drought/scott_shasta_rivers/docs/digest_081221.pdf P 31). These conditions have placed a regulatory burden on local Agriculture. Addressing some of the factors impacting the species could ease the burden on the agricultural community. Coho (and other salmonid) spawning access to the valley, juvenile outmigration, and spatial distribution, quantity and quality of summer rearing habitat has been severely negatively impacted by the year over year drought. Lack of sufficient high quality summer rearing has been identified as a limiting factor for the C/ESA limited Southern Oregon Northern California Coho Salmon recovery in both the NOAA and CDFW Coho recovery plans and the additional loss of the limited critical summer rearing habitat due to drought has pushed the species closer to extirpation from the watershed. This proposed project will connect newly constructed habitat to Sugar Creek, an identified key Coho spawning and rearing tributary of theScott River. Extensive restoration projects have been implemented in Sugar Creek over the past 10 years which have proven to rear thousands of juvenile Coho, however in the 2018, 2020, and 2021 drought years the restoration reach dewatered, resulting in the loss of the rearing juveniles. The proposed Project has been designed to allow juveniles to move from the current habitat complex into newly created habitat, which has been designed to remain wetted under low

flow/drought conditions. The State Water Resource Control Board Scott Shasta Emergency Drought curtailment order (P. 34) states "In July 2021, the National Marine Fisheries Service (NMFS) conducted a fish relocation effort on Sugar Creek, a tributary to the Scott River, in response to severely limited habitat exacerbated by declining flows (NMFS, 2021a). Fish were relocated to an adjacent off-channel pond with reliable cold-water inputs from groundwater sources. A total of 473 juvenile coho salmon were relocated. Due to fish health risks associated with relocation efforts, they are only attempted in the Scott River watershed when a significant number of juvenile fish are threatened by decreasing flows and have no natural path to refugial waters. Fish relocation efforts are also planned on the mainstem of the Scott River in mid-August based on observations of stranded fish. The last time a large-scale fish rescue operation was conducted in the Scott River was in 2014, another significantly dry year. Coho salmon smolts ratios (as compared to the number of returning adult females) in the year of the rescue were quite low, suggesting that the survivability of the smolts was severely reduced despite these efforts (CDFW, 2020a)." This indicates that, while relocation of juvenile salmon to refugia habitat has been undertaken, there is little evidence that doing so is a successful strategy. This project would allow juvenile Coho (and other aquatic species) to volitionally move into refugia habitat when environmental cues stimulate them to do so, rather than awaiting relocation efforts which are often only undertaken after the habitat, and the fish that are in them, are already in extremis. The planted vegetation will provide shade to keep stream temperatures in the non-lethal range for salmonids as ambient temperatures rise, and the vegetation will also enhance primary productivity, providing food sources for the fish. Ample food sources have been shown to mitigate negative impacts of higher temperatures. The Project TAC, with representatives from the California Department of Fish and Wildlife, North Coast Regional Water Quality Control Board, and the National Marine Fisheries Service, have all expressed strong support for this project on the basis of it providing critically needed summer refugia habitat, specifically habitat designed to withstand drought conditions, in a stream with documented juvenile Coho use every year for the past 10 years.

This project is located in Scott River Valley grounwater basin (1-005), which is a medium priority basin as identified by the CASGEM program. Siskiyou County Flood Control and Water Conservation District, which serves as the Groundwater Sustainability Agency (GSA) for the Scott River Valley groundwater basin, is in strong support of this project. As indicated in the attached letter of support, the project would benefit the Scott River Valley groundwater basin and the Scott River watershed, and assist the GSA in reaching its groundwater sustainability goals. (See attached GSA letter of support).

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.

GOAL 1: INTRAREGIONAL COOPERATION & ADAPTIVE MANAGEMENT
-Objective 1 - Respect local autonomy and local knowledge in Plan and project development and implementation [SRWC is a local entity and is the Project lead and has shared its local knowledge in project development, design and proposed implementation.]
-Objective 3 - Integrate Traditional Ecological Knowledge in collaboration with Tribes to incorporate these practices into North Coast Projects and Plans [Quartz Valley Indian Reservation is a Project collaborator and will offer TEK to guide Project implementation. The benefit to the Tribe in terms of improved ecological functioning of the Scott River and from the potential improvement of the Scott Coho population is inestimable.]

GOAL 2: ECONOMIC VITALITY
-Objective 4 - Ensure that economically disadvantaged communities are supported and that project implementation enhances the economic vitality of disadvantaged communities by improving built and natural infrastructure systems and promoting adequate housing [The Scott Watershed is an economically disadvantaged community. The Project will employ local people. The Project will address several regulatory obligations (TMDL, listed species) and thereby support the entire community.]
-Objective 5 - Conserve and improve the economic benefits of North Coast Region working landscapes and natural areas [The Tailings lie in the middle of an agricultural landscape and there is a gravel mining operation just downstream of the Project. The Project designs take these factors into account inorder to preserve their economic contribution to the community.]

GOAL 3: ECOSYSTEM CONSERVATION AND ENHANCEMENT
-Objective 6 – Conserve, enhance, and restore watersheds and aquatic ecosystems, including functions, habitats, and elements that support biological diversity [The Project is designed to improve the watershed, specifically aquatic habitats and biological diversity, offering drought and climate change refugia.]
-Objective 7 - Enhance salmonid populations by conserving, enhancing, and restoring required habitats and watershed processes [The Project is designed to improve and increase salmonid habitat while reestablishing natural processes.]

GOAL 5: CLIMATE ADAPTATION & ENERGY INDEPENDENCE
-Objective 11 - Address climate change effects, impacts, 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 [The Project is designed to

provide cold water refugia for Coho salmon and other species during drought and climate change conditions.]

8. Describe the Primary Benefit of the project.
   Quantified benefit: 1
   Units (Drop down):Acres If other please enter:
   Benefit Type: Ecosystem/Habitat Restoration If other please enter:

9. Describe the Secondary Benefit of the project:
   Quantified benefit: 20
   Units (Drop down):Other If other please enter:Stream Temperature

   Benefit Type: Ecosystem/Habitat Restoration If other please enter:

10. Please briefly describe how the project will achieve the claimed benefits.

One acre of new cold water refugia habitat for Coho salmon (and other aquatic species) will be created during Phase 1 of the Project. Water temperatures within the constructed habitat will remain in a range suitable for salmonids (<20º) due to cold groundwater inputs and shade from planted vegetation. A 40-foot wide and 6-mile long dredge tailings pile provides a uniquely cool and clean water source as input to the habitat.

11. Briefly describe how the community/area benefiting from this project is being impacted by the current drought.

    As described in question 5, the Scott River Watershed has been in extreme or critical drought over the past 2 years with only two years of "normal" precipitation the past 10 years. Even with normal precipitation, there has been less snowpack and earlier run off, resulting in lower summer streamflow. An increasing proportion of agricultural water use has been from groundwater. The sum total of these factors has been to reduce summer streamflow with the earlier onset and later extension into the fall of baseflow, negatively impacting quantity and quality of summer rearing habitat for salmonids and limiting fish passage for adult spawners and out-migrating juveniles. In addition to the negative ecological impacts of reduced summer streamflow conditions and loss of summer aquatic habitat the human community has been affected in numerous ways. The most overt of these impacts was the curtailment of all irrigation, both surface and groundwater, by the State Water Resources Control Board in September of 2021. The impetus for the curtailment was the determination by CDFW that reduced streamflow was having severely detrimental impacts on groundwater dependent ecosystems, primarily salmonids. The curtailment had negative financial impacts on the agricultural community, with secondary impacts to the wider economy. The Waterboard Scott Shasta drought webpage states "On May 10, 2021, Governor Newsom declared a drought emergency for 41 counties, including Siskiyou County, where accelerated action is needed to protect public health, safety, as well as the environment. The Scott River (Scott) and Shasta River (Shasta) are important tributaries to the Klamath River, the second largest river in California. The Scott and Shasta watersheds are experiencing one of the most severe droughts on record. These rivers are crucial sources of water for Siskiyou County and have immense economic, ecological, and cultural importance. Siskiyou County is home to 43,500 people. The Scott and Shasta watersheds provide water for agriculture, domestic users, the environment, fire protection, municipalities, Tribal Nations, and recreation." These watershed areas are recognized as 'Disadvantaged Communities' (DAC) and in some areas 'Severely Disadvantaged

Communities' (SDAC). This project could bring funding and jobs to the the area. Furthermore, Quartz Valley Indian Reservation is a Project collaborator and will offer TEK to guide Project implementation. The benefit to the Tribe in terms of improved ecological functioning of the Scott River and from the potential improvement of the Scott Coho population is inestimable and would support tribal resource concerns. The project also benefits fishing dependent communities. This project, combined with potential future restoration efforts could mitigate the impact of multi-year drought on resident salmonid populations in the Scott River Watershed and subsequently reduce impacts to the agricultural, tribal and general community from constrained water resources in the region as result of drought.

12. How will this project alleviate the impacts described in your answer to Question 11?

Creating drought refugia habitat will support stabilizing the Scott population of Coho Salmon and potentially assisting in their recovery. The Scott Groundwater Sustainability Plan identifies habitat restoration as mitigation for groundwater use. Creating refugia habitat is also identified as possible mitigation for drought conditions in the Waterboard Drought as noted in the emergency action adopted regulation concerning .Klamath. River Watershed flows Section 3.f,4-b. This project provides high quality water and refugial habitat for listed species which is extremely limited under drought conditions in the Scott River Valley. The water resource being utilized offers multiple benefits in that it is uniquely cool and clean water from a tailings pile that will be remediated. Cool and clean water resources are difficult to source in the project area, particularly under drought conditions.

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	46,150		46,150
(b)	Land Purchase / Easement			
(c)	Planning / Design / Engineering / Environmental Documentation	81,170	115,288	196,458
(d)	Construction / Implementation	570,916		570,916
	TOTAL COSTS	698,236	115,288	813,524

14. Please describe why state funding is needed for this project. If state funding is not secured, what will happen to the project?

There has been substantial investment in Project planning and design. Now funds are needed for implementation. No implementation funds are in hand so State funding is needed to rapidly implement this high value project in order to respond to drought conditions. If State funding is not secured through this solicitation, funding from other

sources will be sought, however these funds will not be available on such a rapid timeline, therefore implementation would be delayed

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 requested funds will cover all the costs associated with implementation of Phase 1. We are pursuing the strategy of requesting all the required funds for the first Phase of the Project from a single source so as not to experience funding shortfalls due to the need to seek and coordinate funding from multiple sources. Over the past two years there has been a $115,288 investment in the development of engineered plans, completion of NEPA and ongoing monitoring and evaluation . The Bureau of Land Management, the Coastal Conservancy and Scott River Watershed Council have contributed funds to the effort.

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.
    The landowner has been an active participant in the Project planning and design and is committed to implementation.

17. Has planning and design for this project been completed? If not, please describe the status of planning and design.
    Yes, planning and design have been completed. There are currently 90% engineered designs which will be brought to the 100% level prior to the start of the Project.

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.
    A NEPA study and analysis was completed for the planning phase of the project because funds were provided by BOR and NEPA was a requirement.. The environmental studies undertaken for the planning project NEPA will provide a sound foundation for the permitting of the Phase1 Implementation. CDFW, Waterboard, and NOAA/NMFS personnel have been members of the TAC, so no regulatory issues are anticipated. The Project is purely an ecological restoration project and could therefore be permitted under the new Waterboard 401 Large Restoration Project General Order or the new CDFW Restoration Project CEQA Categorical Exemption. Funds for permitting processes and fees are included in the Project budget.

19. Please briefly describe the necessary construction/implementation for this project.
    - EXISTING FACILITIES Existing utility poles, communication, and telephone lines shall be protected in place during construction.
    - CLEARING AND GRUBBING: Clearing and grubbing, especially with concern for existing native vegetation, shall be limited to the minimum extent practicable to those areas actually affected by the planned construction, and for access as shown on the Design Plans.
    - EARTHWORK: includes excavation, site preparation and grading, fill placement, compaction, rough grading, and finish grading to the lines and grades. Earthwork includes channel realignment, crossing removal and replacement, floodplain excavation, as well as trenching and backfill for large wood structures.

- EROSION PREVENTION AND SEDIMENT CONTROL: Management practices (BMPs) to prevent erosion and control sediment, as described in the current California Stormwater BMP handbook for construction. Upon the completion of the site grading, all disturbed surfaces shall be treated in order to prevent erosion.
- FISH PROTECTION: Management practices (BMPs), under the direction of a qualified biologist, as allowed under CDFW and NOAA permitting, will install and manage fish exclusion and/or relocation during Project construction.
- WOOD HABITAT FEATURES: Purchase, delivery, site preparation, construction, and placement of Large Wood Habitat Features (LWHF), Nurse Logs (NL), and Brush Trenches, including all materials, excavation, fill, and compaction required to install the features.
- LIVE WILLOW AND COTTONWOOD STAKES: Furnishing and planting of Live Willow and Cottonwood Stakes (Live Stakes) during construction of habitat enhancement and bank and channel stabilization features.
- PLANTING AND REVEGETATION: Revegetating any areas disturbed by construction activities and those areas shown on the Design Plans. The native erosion control grass seed shall be spread by hand broadcasting or other approved methods over all disturbed areas as shown on the Design Plans.
- RIPARIAN PLANT MAINTENANCE: a 2-3 year plant maintenance plan will be included including watering, weed control and replacement planting to meet a plant survival standard of 70% at 2 years.

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	3/31/2022	3/31/2026
(b)	Land Purchase / Easement		
(c)	Planning/ Design / Engineering / Environmental Documentation	3/31/2022	3/31/2023
(d)	Construction/ Implementation	3/31/2023	12/31/2025

COUNTY OF SISKIYOU

Flood Control & Water Conservation District

P.O. Box 750 ● 1312 Fairlane Road, Yreka, CA 96097
Phone: (530) 842-8012, Fax Number: (530) 842-8013

January 7, 2022

Financial Assistance Branch
Department of Water Resources
PO Box 942836
Sacramento, CA 94236
Attention: Round 2 IRWM Implementation Grant Program

Re: Support of Scott River Tailings Restoration, Long Pond Implementation, Phase 1

To Whom It May Concern:

The Siskiyou County Flood Control and Water Conservation District, which acts as the Groundwater Sustainability Agency (GSA) for the Scott Valley groundwater basin, is writing in support of the ***Scott River Watershed Council's Scott River Tailings Restoration, Long Pond Implementation, Phase I project.***

Similarly, to many basins within California, the GSA has recently completed its Groundwater Sustainability Plan (GSP) and the Scott Valley GSP outlines multiple projects and management actions (PMAs) necessary to achieve the Basin's sustainability goals. Objectives related to this project include; achieving the thresholds and objectives for the interconnected surface water sustainability indicator and avoiding additional stresses on interconnected surface water and their habitats. In order to achieve some of these goals, the GSP classifies management actions organized into three tiers which reflect the anticipated timeline for implementation. The ***Scott River Tailings Restoration, Long Pond Implementation, Phase 1*** has been identified as a Tier I project which will aid in addressing the Interconnected Surface Water Sustainability Management Criteria (SMC).

Scott River Watershed Council (SRWC) has applied and been selected for funding through the North Coast Resource Partnership's Urban and Multibenefit Drought Relief Grant program for this project. This project supports some of the goals outlined in the GSP "to improve instream connectivity" which, once implemented, will help improve conditions of anadromous fish in the tailings section of the Scott River, which connects the East Fork, South Fork, and Sugar Creek tributaries to the mainstem Scott River.

The GSP acknowledges the importance of collaboration and partnership with Scott Valley stakeholders and that such collaboration ensures partial achievement of goals identified in the GSP. The ***Scott River Tailings Restoration, Long Pond Implementation, Phase 1*** is a collaboration with multiple landowners, Quartz Valley Indian Reservation, California Department of Fish and Wildlife, North Coast Regional Water Quality Control Board, National Oceanic and Atmospheric Administration, University of California Davis, Stillwater Sciences, and the Scott River Watershed Council. This cooperative project exemplifies the strategy the GSA stresses in their GSP helping watershed stakeholders achieve their goals while simultaneously meeting the GSP stated goals.

Sincerely,

DocuSigned by:
Brandon A. Criss
41180BC51836457...
Brandon A. Criss, Chair
Siskiyou County Flood Control and Water Conservation District

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: Southern Humboldt Fire Suppression Water Supply

2. Local Project Sponsor (if different than grantee): Mattole Restoration Council

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: 40.245206237669585 Longitude: -124.12461338596924

4. Please briefly describe the proposed project.

   The Mattole Restoration Council proposes to purchase and install rainwater catchment storage tanks for local volunteer fire departments in the Mattole and Eel watersheds. Petrolia, Honeydew, Telegraph Ridge, Whale Gulch, Briceland and Whitethorn Fire Departments all serve as initial attack on many rural fires before CalFire can respond. We are seeking funding to purchase rain catchment tanks and appropriate hose and hydrant fittings for these fire departments and to plan the most strategic locations for placement using our existing Fire Atlas for first responders.

   Successful 'initial attack' of a wildfire is based on getting water onto the fire as rapidly as possible simply because small fires are easier to suppress than large fires. As a result, many local agencies rely on the 'Type 6' Engine, which is a large pick-up truck chassis carrying only 300-400 gallons of water. To compensate for the relatively short discharge times, agencies are eager to site smaller tanks in strategic places throughout their response areas to reduce 'turn-around times' when shuttling water to a fire. Selecting these strategic locations is based on an ongoing data gathering project using the Mattole Fire Atlas, a digital and paper atlas showing roads, locked gates, structures, and water sources. Local fire departments will work with the Mattole Restoration Council GIS Tech and Fire and Fuels Coordinator to determine where, beyond landowners' existing stored pond and tank water, additional dedicated fire water would best be sited and update the Fire Atlas once those tanks are in place.

   Established in 1983, the Mattole Restoration Council's primary mission is to understand, restore and conserve the ecosystems of the Mattole River watershed, with attention to threatened coho and Chinook salmon and steelhead. We are a non-profit, 501c3 that works with hundreds of private landowners, resource management agencies, and other local conservation and education organizations.

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.

   This project responds to a fire season emergency for humans and wildlife. Residents of the rural area served by the 6 fire companies listed above all manage their own water systems. There is no municipal water or fire hydrants on the Lost Coast. We rely on stored water and on our ability to draft water from ponds, creeks, and rivers. The ongoing drought across our local fire companies' area of responsibility has significantly reduced our options in that many creeks and certain drafting spots on the Mattole River do not offer drafting flows during the extreme part of the fire season. As a result, increasing importance is being placed on the thoughtful placement of small (1,000 - 5,000 gallon) water tanks placed throughout the watershed. Adding strategic storage will improve initial attack response time and reduce the likelihood of a small fire growing into a megafire.

   The project focus area includes volunteer fire departments that serve the Mattole and Eel watersheds. The NCRP data map (located at https://northcoastresourcepartnership.org/data/) demonstrates that this entire area is "Economically Distressed". Furthermore, the area is almost entirely comprised of Disadvantaged Communities (DAC) including Petrolia, Honeydew, Telegraph Ridge, and Whitethorn, and significant portions comprised of "Severely Disadvantaged Communities" (SDAC).

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.

   GOAL 1: INTRAREGIONAL COOPERATION & ADAPTIVE MANAGEMENT
   -Objective 1 - Respect local autonomy and local knowledge in Plan and project development and implementation
   -Objective 2 - Provide an ongoing framework for inclusive, efficient intraregional cooperation and effective, accountable NCRP project implementation

GOAL 2: ECONOMIC VITALITY
-Objective 4 - Ensure that economically disadvantaged communities are supported and that project implementation enhances the economic vitality of disadvantaged communities by improving built and natural infrastructure systems and promoting adequate housing
-Objective 5 - Conserve and improve the economic benefits of North Coast Region working landscapes and natural areas

GOAL 3: ECOSYSTEM CONSERVATION AND ENHANCEMENT
-Objective 6 – Conserve, enhance, and restore watersheds and aquatic ecosystems, including functions, habitats, and elements that support biological diversity
-Objective 7 - Enhance salmonid populations by conserving, enhancing, and restoring required habitats and watershed processes

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 9 - Improve drinking water quality and water related infrastructure to protect public health, with a focus on economically disadvantaged communities
-Objective 10 - Protect groundwater resources from over-drafting and contamination

GOAL 5: CLIMATE ADAPTATION & ENERGY INDEPENDENCE
-Objective 11 - Address climate change effects, impacts, 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
-Objective 12 - Promote local energy independence, water/ energy use efficiency, GHG emission reduction, and jobs creation

GOAL 6: PUBLIC SAFETY
-Objective 13 - Improve flood protection, forest and community resiliency to reduce the public safety impacts associated with floods and wildfires

8. Describe the Primary Benefit of the project.
   Quantified benefit: 151,000
   Units (Drop down):Other If other please enter:Gallons
   Benefit Type: Improve operational efficiency If other please enter:

9. Describe the Secondary Benefit of the project:
   Quantified benefit: 151000
   Units (Drop down):Other If other please enter:Gallons
   Benefit Type: Water Supply If other please enter:

10. Please briefly describe how the project will achieve the claimed benefits.
    Provide 32 tanks and 151,000 gallons of stored rainwater to support fire suppression for the rural outlying communities served by Petrolia, Honeydew, Telegraph Ridge, Whitethorn, Briceland and Whale Gulch Fire Departments. The project will support a reliable water supply for first responders. Improved water supply and efficiency improves initial attack timing which reduces the chances of small fires growing into mega fires that can destroy homes, lives, and the salmonid habitat the MRC and our partners (Mattole Salmon Group, Sanctuary Forests, BLM, State Parks, USFWS, CDFW, NCRP, DWR, etc) have worked so hard

to improve. Stored water will save 151,000 gallons of fire water that would have otherwise been diverted from streams.

11. Briefly describe how the community/area benefiting from this project is being impacted by the current drought.

    CalFIRE considers most of the Mattole watershed to be at a very high risk of wildfire. The 2021 drought reduced Mattole River flow to an all time low and caused many reliable wells and springs to dry up. This impacted available water for fire suppression efforts because local fire departments rely on ponds, creeks, tanks and the Mattole River for water to fight fires. Many creeks and certain drafting spots on the Mattole River do not offer drafting flows during the extreme part of the fire season. In addition, many residents used water set aside for fire protection to meet household needs.

12. How will this project alleviate the impacts described in your answer to Question 11?

    Increased rainwater catchment and water storage will provide reliable water sources for local fire departments and reduce water diversions.

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	31,445	5,500	36,945
(b)	Land Purchase / Easement	0	0	**0**
(c)	Planning / Design / Engineering / Environmental Documentation	39,000	9,000	48,000
(d)	Construction / Implementation	275,348	24,000	299,348
	TOTAL COSTS	**345,793**	38,500	384,293

14. Please describe why state funding is needed for this project. If state funding is not secured, what will happen to the project?

    The fire departments are run by volunteers who dedicate an incredible amount of time to keeping our communities safe. Over the past 5 years fire incidents have increased making this time commitment even more intense. As volunteers are busier and busier fighting fires they have less time to fundraise. In addition, the pandemic has limited usual fundraising events and created budget stress. For example, the Honeydew Fire Company recieves almost 100% of it's annual funding from the large "Roll on the Mattole Festival" which has been cancelled two years in a row. Without state funding fire departments cannot affort to purchase tanks in the near future. If tanks are not secured soon there will not be time to fill them before next fire season which will reduce initial attack capacity and response.

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.

    If NCRP/DWR funding is secured we will have all resources needed to implement the project. We have committed in kind labor from all 6 fire departments to help install and maintain the tanks once secured. We also have a small amount of funding remaining from Bella Vista Foundation and USDA to update the Mattole Fire Atlas.

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.

    Tanks placed on private property will require landowner permission and an MOU. Strategic tank site locations are known for half of the tanks and we will sign landowner agreements once additional sites are identified using the Fire Atlas.

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

    We are at 50% design. Tank location sites have been determined for Telegraph Ridge, Briceland and Whale Gulch fire departments. We will continue to work with Honeydew and Petrolia to determine the most appropriate sites for their water storage.

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.

    None required.

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

    Implementation: Deliver tanks to each fire department, prepare site with grading and gravel, install tanks at appriate sites, fill tanks with rainwater or spring water depending on timing, add CalFire approved outputs.

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	11/1/2021	12/31/2023
(b)	Land Purchase / Easement		
(c)	Planning/ Design / Engineering / Environmental Documentation	11/1/2021	11/1/2023
(d)	Construction/ Implementation	1/15/2022	5/15/2023

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: Sonoma County Household Drought Resiliency Project

2. Local Project Sponsor (if different than grantee): Gold Ridge 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: 38.5015 Longitude: -122.8830

4. Please briefly describe the proposed project.

   Through a partnership of the Gold Ridge and Sonoma RCDs, Sonoma Water, and nonprofit Daily Acts, the project seeks to promote water conservation, provide alternatives to extractive water sources, protect streamflow, and foster water use awareness among Sonoma County's urban and rural residents by expanding a cost-effective rainwater catchment rebate program. This funding will be used to both bolster the program in rural areas reliant on streamflow diversions, seasonal springs, or compromised aquifers for their water security, while developing a structure to expand both the urban and rural programs to include a range of household-level strategies, such as raingarden construction and greywater system installation. This funding will also expand a workshop series meant to build capacity among both local landscapers and homeowners to design and implement these practices.

   In 2020, the partnership was awarded funding through DWR's Prop 1 IRWM program to establish a pilot program to promote rainwater catchment for drought resiliency and environmental benefits. With the program now underway, this request would expand the funding to provide more rebates to larger-scale rural residential systems in areas suffering from water security and threatening summer streamflow. Many residents in these water-scarce areas, completely reliant on riparian pumps or shallow alluvial wells, have experienced water insecurity as stream reaches have run dry, while facing emergency orders restricting riparian usage in an effort to protect critical habitat. Due to the size of the systems needed to both provide water security and offset the environmental impacts of the diversions on these rural properties, the existing rebate program has insufficient funds to assist these communities at scale.

   This additional funding would allow RCDs to greatly expand their technical and financial assistance to these rural landowners. Additionally, this funding would allow the partners to research and design a rebate structure to include associated

stormwater management practices like raingarden construction and tank overflow capture, in an effort to promote groundwater recharge and attenuate winter storm surges. A rebate structure would also be developed for other water conservation strategies like greywater installation.

This project is being undertaken to improve water supply reliability and improve drought resilience. The project is consistent with the general guidance in Section 10560 of the water code, and thus a Storm Water Resource Plan (SWRP) is not required on a watershed-specific basis for these projects. The rationale for this determination is that the project provides a net benefit within the watershed and is in compliance with the SWRP guidance.

Attached is a letter of support that was previously provided by the Santa Rosa Plain Groundwater Sustainability Agency for the initial pilot program phase of the project. As indicated in the attached letter, rainwater catchment is an important component of water supply sustainability for the Santa Rosa Plain groundwater basin (1-055.01), which is a medium priority basin. The GSA recognizes this rainwater catchment program as an important early step in involving and educating groundwater users in water conservation efforts at the household level. (See attached GSA letter of support).

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.

In the short term, the Household Drought Resiliency Project will provide rapid technical and financial assistance to homeowners to implement practices to capture this season's stormwater as a readily available emergency nonpotable water source, while protecting early season streamflows needed for outmigrating salmonids, reducing water needs, and attenuating stormwater to recharge groundwater. In the long term, the program will improve household drought resiliency and awareness around alternative water sourcing, while promoting groundwater recharge, in a time many climate experts have determined to be the beginnings of a permanent shift to a drier climate.

The project focus area includes the North Coast region within Sonoma County (see enclosed Drought Resiliency Project Map). While the partnership is working to build the program to provide rebates throughout the county, current funding levels neccessitate a prioritization process. The rebate prioritization ranking will consider applicants' water security, resource/streamflow impacts, and financial status of the household and community. Below is information regarding DACs, SDACs and Tribal Communities in the project area.

Disadvantaged Communities (DAC):
Block Groups: 060971542012, 060971542023, 060971540002, 060971537044, 060971537051, 060971537043, 06097153703, 060971537052, 060971534041, 060971538081, 060971527015, 060971527014, 060971528011, 060971530021, 060971530054, 060971530061, 060971530031, 060971522013, 060971522014, 060971514012, 060971522021, 060971522024, 060971522022, 060971525022, 060971525023, 060971517001, 060971517004, 060971513082, 060971513063;
Tract: 06097153704, 06097153703, 06097153705, 06097152802, 06097153001,

06097152203, 06097152000, 06097151900, 06097153104, 06097153102, 06097151402, 06097151305, 06097151201; Cazadero, Monte Rio CDP, Guerneville CDP, Graton CDP

Severely Disadvantaged Communities (SDAC):
Block Groups: 060971542013, 060971536001, 060971521001, 060971529033, 060971531033, 060971515025, 060971513083, 060971528021, 060971519004, 060971514023, 060971514024, 060971513051, 060971513054, 060971512011, 060971512015

Tribal Benefit:
Tribal members in the project area are welcome to participate and include: Cloverdale Rancheria of Pomo Indians of California, Dry Creek Rancheria Band of Pomo Indians, Federated Indians of Graton Rancheria, Kashia Band of Pomo Indians of the Stewarts Point Rancheria, Koi Nation of Northern California, Lytton Band of Pomo Indian.

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.
    North Coast Integrated Regional Water Management Plan, Phase III (2014)

    Goal 3: ECOSYSTEM CONSERVATION AND ENHANCEMENT
    -Objective 6: Conserve, enhance, and restore watersheds and aquatic ecosystems, including functions, habitats, and elements that support biological diversity

    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

    Goal 5: CLIMATE ADAPTATION & ENERGY INDEPENDENCE
    -Objective 11: Address climate change effects, impacts, vulnerabilities, including droughts,

fires, floods, and sea level rise.
-Objective 12: Promote local energy independence, water/energy use efficiency, GHG emission reduction, and jobs creation

8. Describe the Primary Benefit of the project.
   Quantified benefit: 150000
   Units (Drop down):Other If other please enter:gallons of water provided per year

   Benefit Type: Water Supply Reliability If other please enter:

9. Describe the Secondary Benefit of the project:
   Quantified benefit: 50000
   Units (Drop down):Other If other please enter:gallons of streamflow diversion prevented per year
   Benefit Type: Ecosystem/Habitat Restoration If other please enter:

10. Please briefly describe how the project will achieve the claimed benefits.
    This phase of the program is expected to rebate at least 150,000 gallons of rainwater catchment in priority areas, addressing water security for rural households and, in some cases, offsetting streamflow diversions. Most rural systems are constructed to capture 10,000-15,000 gallons, providing sufficient water to meet late season nonpotable needs when groundwater levels drop and streamflow becomes disconnected

11. Briefly describe how the community/area benefiting from this project is being impacted by the current drought.
    Governor Newsom declared a drought emergency for Sonoma County in April 2021, based in part on historic low levels in the region's two largest reservoirs. Later that summer, the SWRCB issued orders curtailing water diversions from the Russian River While recent rains have helped signficantly, Lake Sonoma and Lake Mendocino still remain at 49% and 35% capacity, respectively, (the latter had fallen below 10% in late September) and Sonoma County's largest water provider, Sonoma Water, has retained a mandatory 20% reduction requirement among its contracted urban and water company suppliers. Hardest hit, however, have been communities outside of water provide service areas. Many rural communities reliant on groundwater, particularly along ridgetops or in aquifer-deficient areas, have been forced to truck water through the summer to meet basic household needs. Other households rely exclusively on riparian diversions, compromising summer streamflow and the deep pools that provide summer refugia habitat for the area's listed salmonids. Many riparian landowners along priority coho-bearing streams have been subject to emergency orders restricting diversions over the past several years, while others have simply watched their riparian water sources dry up.

12. How will this project alleviate the impacts described in your answer to Question 11?

The pilot phase of this program, currently funded through DWR's Prop 1 IRWM program, has proven essential to develop and launch the rebate program, and develop materials and workshops to assist both landscapers and homeowners in design and construction. However, due to the structure of the RCDs' partnership with Sonoma Water and Daily Acts, much of the rebate provision is earmarked for urban homeowners with relatively small systems. The requested funding would greatly expand the program to provide water security to rural households outside of

water supplier distribution areas, whose well and riparian pump diversions have significant environmental impacts while also facing depleted aquifers and compromised summer streamflow.

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	27,600		27,600
(b)	Land Purchase / Easement			
(c)	Planning / Design / Engineering / Environmental Documentation	42,100		42,100
(d)	Construction / Implementation	115,848		115,848
	TOTAL COSTS	185,548		185,548

14. Please describe why state funding is needed for this project. If state funding is not secured, what will happen to the project?

    Pilot project funds have been provided through a North Coast Prop 1 IRWM grant, which have allowed several program components to get underway: the establishment of a rainwater catchment rebate program in the city of Healdsburg through Sonoma Water; the development of a Qualified Water Efficient Landscaper training module and workshop series; a workshop series targeted at homeowners interested in installing their own systems; and limited rebates available for prioritized rural areas. However, due to the size systems required for dry season water security for rural landowners in water-scarce areas, the program currently does not have sufficient funds to meet the significant demand for assistance from these rural communities. Without this second phase funding, the existing program will prove insufficient to meet the growing demand among rural households. In addition, this state funding will provide planning funds to expand the rebate program to other water management practices, like raingarden construction for groundwater recharge, and greywater use to reduce water demand.

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.

    Cost share proposals have been submitted to the County of Sonoma Climate Resilience Fund and the Department of Fish and Wildlife, but has not yet been secured.

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.

No

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

    No. Techical assistance for rainwater catchment system design will be offered through the project for larger systems, although many systems will be constructed from typicals and not not require full designs. Planning work for the development of an expanded rebate program is included in this request.

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.

    Yes, a Notice of Exemption SCH#2020070568 was filed with the State Clearinghouse and county

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

    Construction of rainwater catchment systems will be completed by the landowner or by those contracted directly by the landowner. Rebates will be provided for installed systems verified by project staff.

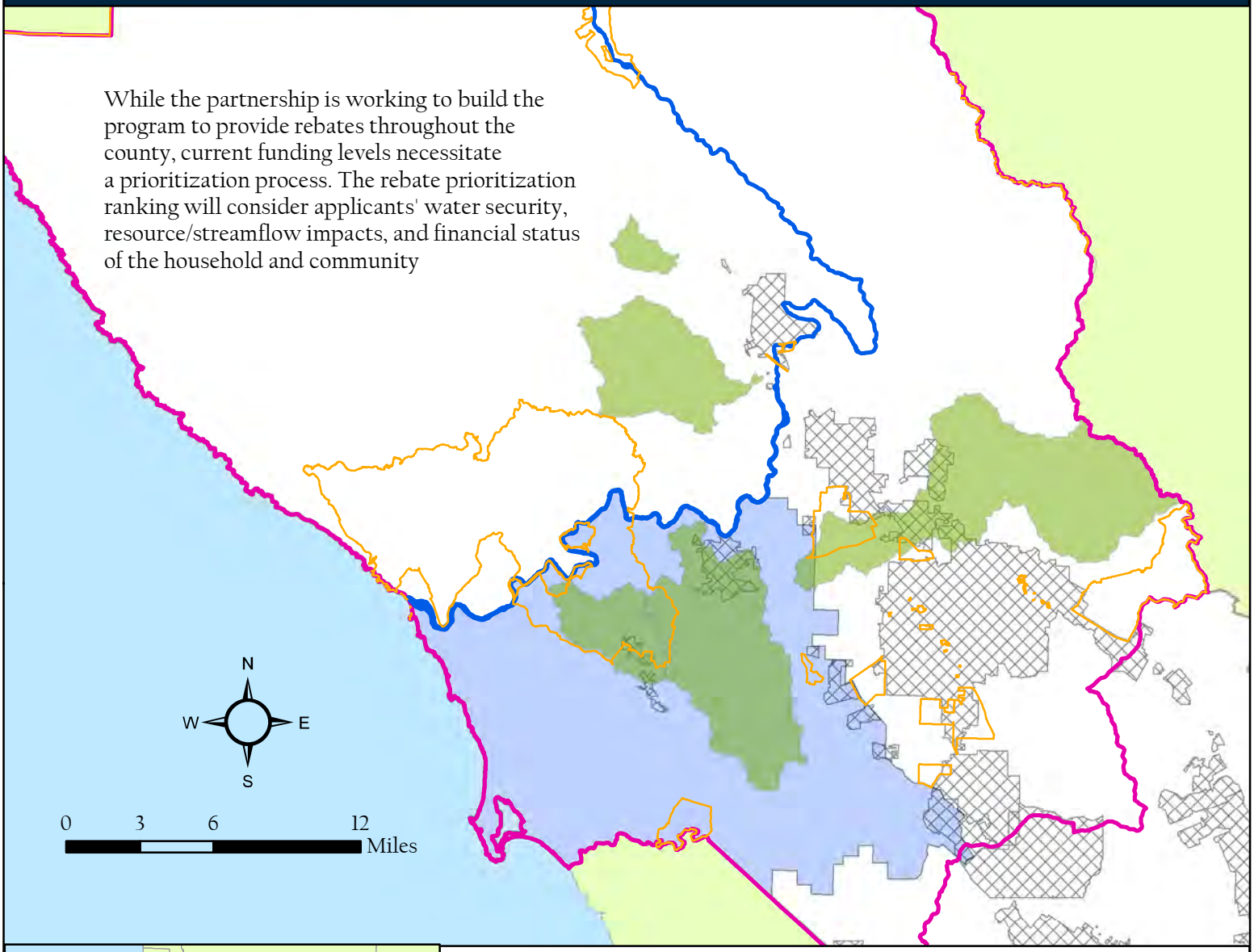
20. Please complete the schedule below for the project. Projects must be complete by March 31, 2026, to allow time for final invoice processing and retention payment before the State funds expire on June 30, 2026. Project administration should end at least three months after construction.

	Categories	**Start Date**	**End Date**
(a)	Project Administration	6/1/2022	3/31/2026
(b)	Land Purchase / Easement		
(c)	Planning/ Design / Engineering / Environmental Documentation	7/1/2022	9/30/2025
(d)	Construction/ Implementation	8/1/2022	12/31/2025

North Coast Resource Partnership
Department of Water Resources
Urban and Multibenefit Drought Relief Grant 2021

Sonoma County Household Drought Resiliency Project
Gold Ridge Resource Conservation District

While the partnership is working to build the program to provide rebates throughout the county, current funding levels necessitate a prioritization process. The rebate prioritization ranking will consider applicants' water security, resource/streamflow impacts, and financial status of the household and community



- Project Focus Area
- North Coast IRWM Boundary
- Sonoma RCD
- Gold Ridge RCD
- Coho Partnership focus watersheds
- Russian River
- Sonoma Water service areas
- economically disadvantaged community

GOLD RIDGE RESOURCE CONSERVATION DISTRICT

Sonoma Water

daily acts

SONOMA RESOURCE CONSERVATION DISTRICT

SANTA ROSA PLAIN
GROUNDWATER
SUSTAINABILITY AGENCY

August 13, 2019 SENT VIA: EMAIL

California Department of Water Resources
Prop 1 Integrated Regional Water Management Program
P.O. Box 942836
Sacramento, CA 94236-0001

SUBJECT: Letter of Support for Gold Ridge RCD's Rainwater Catchment Rebate and Streamflow Enhancement Pilot Project Proposal

Dear Prop 1 IRWM Review Committee:

As Administrator for the state-mandated Santa Rosa Plain Groundwater Sustainability Agency (GSA), I am writing to express my support for the Rainwater Catchment Rebate and Streamflow Enhancement Pilot Project (Pilot Project) proposal, submitted through a partnership between Sonoma Water, the Gold Ridge and Sonoma RCDs, Sonoma-Marin Saving Water Partnership, and Daily Acts.

This project advances the goals of the GSA by promoting household-level water conservation, awareness, and self-reliance to reduce groundwater use. Approximately 25% of groundwater extraction in our area is from rural residential uses. Rainwater catchment as an important component of water supply sustainability for our basin and the GSA recognizes this pilot program as an important early step in involving our groundwater users in these efforts at the household level.

As a prominent stakeholder in promoting water conservation and sustainability in Sonoma County's North Coast region, the GSA appreciates the opportunity to advocate for the Pilot Project proposal and we look forward to supporting this project through implementation. We encourage you to consider funding this proposal.

If you have any questions or concerns about the GSA's position, please do not hesitate to contact me at (707) 508-3670

Sincerely,

Andy Rodgers, Administrator
SANTA ROSA PLAIN GSA

cc: Gold Ridge Resource Conservation District

PROJECT INFORMATION FORM

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

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

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: Briceland Community Services District Water Supply Enhancement

2. Local Project Sponsor (if different than grantee): Briceland Community Services District (BCSD)

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: 40.064746 Longitude: -123.541003

4. Please briefly describe the proposed project.

   BCSD is a rural CSD that provides its customers drinking water via an antiquated treatment and distribution system that utilizes some of its original components that date back to the 1880's. Many components of the system are outdated, undersized, leaking, or have failed since they were installed. The proposed water supply enhancement project, includes improvements to the water storage, transmission, and fire supression systems, to enhance Briceland's drought resiliency and autonomy. The project increases water storage and firefighting capabilities as well as reduces water losses in a sustainable manner.

   The intended purpose of the proposed project is to enhance the resiliency and autonomy of the BCSD water system by: increasing fire suppression storage capacity, and fire fighting capabilities; increasing water conservation; increasing drinking water storage capacity; providing water in an environmentally sustainable manner; enhancing the stream channel environment; and, providing drinking water security.

   Water is supplied to the BCSD by an ephemeral spring on private property. There are several leaks in the transmission line between the spring and the treatment system. After treatment, drinking water is stored in a 42,000 gallon tank. Fire suppression water is unfiltered and stored in 3 tanks with 18,000 gallons of capacity. Both systems are plumbed into town via separate 2-inch water lines.

   BCSD's existing water storage and delivery infrastructure systems are wholly inadequate to provide a sustainable amount of water for the communities existing drinking water or potential fire suppression water needs.

   The major components of the proposed project include: a 100,000 gallon water tank plumbed to supply water to both the water treatment system and the fire suppression storage tanks; 7,000 feet of 2-inch diameter raw water transmission line

connecting the source spring to the water treatment plant, 2,200 feet of 6-inch diameter fire suppression water line connecting the fire suppression water storage tanks to the town fire hydrant network; water transmission line components including mechanical float valves, gate valves, pressure and air relief valves, pressure gauges, and flow meters; site fencing for the slow sand filtration and water storage facilities; a low water level and high flow alarm system; a 140 square foot structure for housing the new alarm system/equipment; and a flow controlled chlorine injector.

In December of 2020, working with the NCRP, BCSD was awarded a Proposition 1 grant that funded ~75% of the estimated cost to complete this project. This application is being submitted to fund the remaining ~25% funding gap for the original project, and to pay for a new raw water transmission line, which will greatly improve water system efficiency.

The project will be implemented as a typical design bid build project.

The project will address the critical water needs of the region by increasing drought resistance, enhancing conservation, providing assistance to economically distressed communities, restoring important ecosystems, and expanding water storage capacity.

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.

BCSD's proposed water supply enhancement project provides benefits to an underrepresented community facing a Human Right to Water challenge. The project provides direct water-related benefits to the residents located in and adjacent to the town of Briceland, California.
The United States Census data for area code 95542, which is the zip code used for Briceland mail, states that the median income is $30,505. The NCRP data map (located at https://northcoastresourcepartnership.org/data/) demonstrates that this area is an "economically distressed area" and surrounded by areas labeled as an "severely economically disadvantage community", but it is not listed as an SDAC. Lastly, BCSD conducted an informal survey of it's customers in 2021 and concluded the average household income of its customers was $36,726. Based on all of the information outlined above, BCSD considers the benefits to the project area to be entirely comprised of a severely disadvantaged community.

Below is BCSD's Human Right to Water scoring relative to water quality, accessibility and affordability indicators. The proposed project would help address physical vulnerabilities and improvements to the BCSD's water storage, transmission, and fire supression systems by providing additional water supply reliability for domestic uses and reducing consumption of water.

HR2W: Water Quality Score (possible range: 0 - 4)
BCSD's Water Quality Composite Score: 0.08
Data Availability Score: 2
This system had: 8-11 contaminants (out of 14) with req. data in study period.

HR2W: Water Accessibility Score (possible range: 0 - 4)
BCSD's Water Accessibility Composite Score: 2.50

Physical Vulnerability to Water Outages Score: 2.50

HR2W: Water Affordability
This system serves 75 people.
BCSD's Water Affordability Composite Score is: No Data

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.
    GOAL 1: INTRAREGIONAL COOPERATION & ADAPTIVE MANAGEMENT
    -Objective 1 - Respect local autonomy and local knowledge in Plan and project development and implementation [Goal 1/Objective 1 are addressed because the project has been developed locally by the BCSD and keeps community autonomous by enhancing BCSD's ability to provide adequate drinking and fire suppression water.]

    GOAL 2: ECONOMIC VITALITY
    -Objective 4 - Ensure that economically disadvantaged communities are supported and that project implementation enhances the economic vitality of disadvantaged communities by improving built and natural infrastructure systems and promoting adequate housing [Goal 2/Objective 4 are addressed because it serves to improve the infrastructure system for Briceland, which is an economically distressed SDAC community.]

    GOAL 3: ECOSYSTEM CONSERVATION AND ENHANCEMENT
    -Objective 6 – Conserve, enhance, and restore watersheds and aquatic ecosystems, including functions, habitats, and elements that support biological diversity [Goal 3/Objective 6 is addressed by the removal of trash from BCSD's source stream; and reducing the amount of water withdrawn from the stream, allowing for more water to feed the Eel River.]

    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 [Goal 4/Objective 8 is addressed by providing additional water supply reliability for

domestic uses and reducing consumption of water.]
-Objective 9 - Improve drinking water quality and water related infrastructure to protect public health, with a focus on economically disadvantaged communities

GOAL 5: CLIMATE ADAPTATION & ENERGY INDEPENDENCE
-Objective 11 - Address climate change effects, impacts, 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 [Goal 5/Objective 11 is addressed because additional water storage will reduce Briceland's vulnerability to droughts/fires caused by climate change, and supply water via gravity and solar power.]
-Objective 12 - Promote local energy independence, water/ energy use efficiency, GHG emission reduction, and jobs creation.

8. Describe the Primary Benefit of the project.
   Quantified benefit: 167
   Units (Drop down):Other If other please enter:percent increase in water storage volume
   Benefit Type: Other If other please enter:Increased Drought Resiliency

9. Describe the Secondary Benefit of the project:
   Quantified benefit: 1700
   Units (Drop down):Other If other please enter:percent increase in fire flow rate

   Benefit Type: Other If other please enter:Increased Fire Fighting Capacity

10. Please briefly describe how the project will achieve the claimed benefits.
    The project will enhance the resiliency & autonomy of the BCSD water treatment & distribution system by implrovcing infrastructure includign both the transmission system and water storage for the community of Briceland (which was previously wiped out by a fire in 1914, and is also currently listed on the NCRP data website as a Tier 2, elevated wildfire threat area). This will enhance the ability of community to fight its own fires and provide drinking water during the extreme weather conditions associated with climate change. The project will also deliver water in an energy independent manner (using no electricity) by relying on gravity and solar power.

    The claimed increase in water storage will be achieved by increasing water storage capacity from 60,000 gallons to 160,000 gallons. The increased fire flow rate will be achieved by the ability of the BCSD to deliver fire suppression water via a 6-inch diameter pipe instead of the existing 2-inch diameter pipe.

11. Briefly describe how the community/area benefiting from this project is being impacted by the current drought.
    Climate change appears to be exacerbating drought conditions for the community of Briceland which is experiencing a significant ammount of sudden oak death; and rainfall that starts later in the year, occurs less fequently, and at higher intensity levels compared to the past. All of these items are adding stressors to the BCSD water system.

    The current water system is supplied by a spring with a flow that's variable and dependent on rainfall, with water supply flows that are close to or below customer demand levels in

the late summer and fall. The low flows consistently cause water supply shortages which require frequent and sustained water rationing periods for BCSD customers. Further, the State Water Resources Control Board's Safe and Affordable Funding for Equity and Resilience (SAFER) program identified Briceland CSD as at risk of failing to meet one or more key Human Right to Water goals including maintaining a sustainable water system. Additionally, the CSD was identified as being vulnerable to loss of connectivity, 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 proposed water supply enhancement project will provide increase community resilliency and help alleviate the effect of droughts by providing a more robust and sustainable water supply by reducing water shortages, enhancing fire suppression capabilities, enhancing the local environment by reducing water withdrawls and providing additional water for impacted wildlife species in the local waterways, and by providing a more durable water treatment and delivery system to the economically distressed community.

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	40,000	0	**40,000**
(b)	Land Purchase / Easement	0	0	**0**
(c)	Planning / Design / Engineering / Environmental Documentation	40,000	0	**40,000**
(d)	Construction / Implementation	468,000	0	**468,000**
	TOTAL COSTS	**548,000**	**0**	**548,000**

14. Please describe why state funding is needed for this project. If state funding is not secured, what will happen to the project?

State funding is needed to fund this project because the BCSD is an all volunteer organization with an $11,000 annual budget that serves an economically distressed SDAC. BCSD does not have available reserves to fund these needed capital improvements, nor does it have the capacity to obtain a loan and raise water rates to its customers who are largely on limited or fixed incomes. If this project isn't funded the BCSD will complete the original 2020 IRWM Prop 1 project, which funds 75% of the original project, which will not be as benefical to the drought impacted customers in Briceland.

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 BCSD has applied for and received funding for 75% of its original project costs throught the 2020 IRWM Prop 1 funding. This application is being completed to fund the remaining 25% funding gap for the original project, and to pay for a new raw water transmission line (which wasn't included in the original project design/application).

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.

    Land acquisition and landowner permission are required but are being completed as part of the originally funded portion of this project. As such, these two items are not included as part of this project application.

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

    Design plans are at the 30% design stage. 100% design documents are anticipated to be completed in early 2022.

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.

    All special studies have been completed for this project. Environmental permits and CEQA documents are anticipated to be submitted to local authorities having jurisdiction by mid December. CEQA and permitting is anticiapted to be completed within 6 months of permit submittal.

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

    Construction for the originally funded 2020 IWRM Prop 1 project is anticipated to begin in the summer/fall of 2022. If funded, this added scope would be included in the same project timeline which will be from summer/fall to winter of 2022. Construction/Implementation funds for this project would be used to upgrade the water storage from a 25,000 HDPE tank to a 100,000 gallon bolted steel or concrete tank, and to replace approximately 7,000 linear feet of 2-inch diameter raw water transmission piping.

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	5/1/2022	5/1/2023
(b)	Land Purchase / Easement		
(c)	Planning/ Design / Engineering / Environmental Documentation	5/1/2022	8/1/2022
(d)	Construction/ Implementation	8/1/2022	1/1/2023

PROJECT INFORMATION FORM

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

1. Project Name: Shelter Cove Well Site Improvements

2. Local Project Sponsor (if different than grantee): Resort Improvement District No.1 (RID)

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: 40o 02' 15" N Longitude: -124o 02' 57" W

4. Please briefly describe the proposed project.

   Project funding will further develop Resort Improvement District No.1 (RID or District) well site (known as the W-Well) to improve water quaility and increase water availability for public use in Shelter Cove. W-Well site produces a high quantity of water (over 55 gpm), but currently with poor water quality to due elevated levels of magnesium cholride. Project funds requested would cover engineering, permitting, and materials/eqiupment costs to purchase and install a 5,000 gallon water tank (contact chamber), peristaltic & booster pumps, purge valve & water piping, electric starters, chlorine monitoring, small & secure 10'10' protective structure, improved vehicle well site access, and rock and slope protecion for adjacent drainage (site water outflow area).

   Total amount of funding needed is $95,000.

   Funding project will allow for greater conservation of water resources by decreasing District surface water diversions from Telegraph Creek (primary water public water source) during the dry season and by increasing W-Well site water use by effectivley reducing water containiments and improving its water quality. Reducing water withdraws from Telegraph Creek during the dry season will increase water available to wildlife and salmoniod populations. With the addition of a contact tank, pumps, and proper chemical monitoring W-Well could directly replace estimated 70,000 gallons of water per day presently drawn from Telegraph Creek.

   Water Tank and 10'x10' protective structure for pumps, electric starters, and chlorine monitoring would be placed/constructed on separate concrete pads with a minimal amount of excavating. For safer more efficient site access a short driveway would be improved. To reduce erosion, rock slope protection would be added to drainage adjacent to the site to mitigate impacts from water overflows generated at the site.

Applicant Background:
The District independenty operates its own water, wastewater, and electric systems. RID's water system serves 610 residential and 25 commercial connections. The District's water system includes: a water plant (constructed in 1965) 11 tanks, Telegraph Creek and Rick Spring (Surface Water) water intakes, 14 well sites (Groundwater), 40 miles of water lines, 20 PRV sites, 20 different pressure zones.

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.

   The RID's proposed Well Site Improvement project provides benefits to an underrepresented community facing a Human Right to Water challenge. The NCRP data map (located at https://northcoastresourcepartnership.org/data/) demonstrates that the District's entire service area is considered a "severely economically disadvantage community" (SDAC). The District declared a drought emergency in August of 2021 (see enclosed District Board Resolution). Telegraph Creek, the District's primary surface water source for 1,500 customers, was experiencing below average flow rates during the most recent drought.

   Below is RID's Human Right to Water scoring relative to water quality, accessibility and affordability indicators. The proposed project will help address physical vulnerabilities and improvements to the RID's well site, thereby increasing public water availability and improving water quality. The proposed project will also improve conservation practices by curtailing surface water diversions and increasing water for wildlife/fish. This project benefits the customers of the District by increasing the public water supply and conserving surface water resources for wildlife and salmonoid benefit.

   HR2W: Water Quality Score (possible range: 0 - 4)
   RID's Water Quality Composite Score: 0.00

   HR2W: Water Accessibility Score (possible range: 0 - 4)
   RID's Water Accessibility Composite Score: 0.00
   RID's Physical Vulnerability to Water Outages Score: 0.00

   HR2W: Water Affordability
   This system serves 1,500 people.
   RID's Water Affordability Composite Score is: No Data

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.
GOAL 1: Intraregional Cooperation & Adaptive Management
-Objective 1 — Respect local autonomy and local knowledge in Plan and project development and implementation
-Objective 2 — Provide an ongoing framework for inclusive, efficient intraregional cooperation and effective, accountable NCIRWMP project implementation.

GOAL 2: Economic Vitality
-Objective 4 — Ensure that economically disadvantaged communities are supported and that project implementation enhances the economic vitality of disadvantaged communities by improving built and natural infrastructure systems and promoting adequate housing
-Objective 5 — Conserve and improve the economic benefits of North Coast Region working landscapes and natural areas

GOAL 3: ECOSYSTEM CONSERVATION AND ENHANCEMENT
-Objective 6 — Conserve, enhance, and restore watersheds and aquatic ecosystems, including functions, habitats, and elements that support biological diversity
-Objective 7 — Enhance salmonid populations by conserving, enhancing, and restoring required habitats and watershed processes

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 9 — Improve drinking water quality and water related infrastructure to protect public health, with a focus on economically disadvantaged communities

GOAL 5: Climate Adaptation & Energy Independence
-Objective 11 — Address climate change effects, impacts, 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
-Objective 12 — Promote local energy independence, water/ energy use efficiency, GHG emission reduction, and jobs creation

GOAL 6: PUBLIC SAFETY
-Objective 13 — Improve flood protection, forest and community resiliency to reduce the public safety impacts associated with floods and wildfires

8. Describe the Primary Benefit of the project.
   Quantified benefit: 80000
   Units (Drop down):Other If other please enter:gallons of water per day

   Benefit Type: Water Supply - Ground If other please enter:

9. Describe the Secondary Benefit of the project:
   Quantified benefit: 80000
   Units (Drop down):Other If other please enter:gallons of water per day

   Benefit Type: Water Conservation If other please enter:

10. Please briefly describe how the project will achieve the claimed benefits.
    The W-Well site is currently not being used by the District due to water quality issues. W-Well site produces a significant amount of water and upgraded improvements needed to reduce water contaminants and improve water treatment onsite have been identified by District staff and consulants. District staff will be able to construct and install well site improvements if funding is secured. Once the project is complete, the District will have more public water available to meet growing demands and the District will have more well water available that can help offset the diversion of surface water to achieve ecosystem benefits for Telegraph Creek. The District is fully capable of managing project grant funds and completing project as identified in a timley and safe manner.

11. Briefly describe how the community/area benefiting from this project is being impacted by the current drought.
    The District's service area experienced Severe Drought conditions during the most recent drought. Telegraph Creek, the primary water diversion source for the District, is experiencing below average flow rates for a longer period of time during the dry season. Extended lower flow rates during the dry season impact water availability for pumping from Telegraph Creek. The Board of Directors of Resort Improvement District No.1 declared a drought emergency in 2021 (see enclosed resolution). Mandatory water use restrictions were not implemented but only due to October rains that helped from both a surface water level and customer demand perspective. Drought impacts increase operational costs and impacts Shelter Cove's severely economically disadvantaged population.

12. How will this project alleviate the impacts described in your answer to Question 11?
    This project will provide immediate relief to the District-declared drought emergency by increasing water availability through constructing/installing new improvements where past District improvements have already been made to increase the public water supply. Estimated increase to water supply is up to 80,000 gallons per day.

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	0	4,000	**4,000**
(b)	Land Purchase / Easement			
(c)	Planning / Design / Engineering / Environmental	10,000		**10,000**

	Documentation			
(d)	Construction / Implementation	85,000	35,000	**120,000**
	TOTAL COSTS	**95,000**	**39,000**	**134,000**

14. Please describe why state funding is needed for this project. If state funding is not secured, what will happen to the project?
    If state funding is not secured, the project will not be implemented at this time.

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.
    Yes, the District will contribute staff time for project planning/management, site preparation, site construction and pump/pipe works/starters install. In kind labor contribution is $39,000 for full project implementation.

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.
    Not required.

17. Has planning and design for this project been completed? If not, please describe the status of planning and design.
    Planning and design is partially completed. Construction ready engineered plans are not complete at this time due to lack of funding.

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.
    CEQA is complete. Permitting process is not complete. Humboldt County Grading/Building Permit may be required.

19. Please briefly describe the necessary construction/implementation for this project.
    5,000-gallon water tank and 10'x10' protective structure for pumps, electric starters, and chlorine monitoring would be placed/constructed on separate concrete pads with a minimal amount of excavating at the W-Well site off of Willow Glen Road on District property. For safer and more efficient site access, a short (less than 25 feet) driveway would be improved. To reduce erosion, rock slope protection would be added to drainage adjacent to the site to mitigate impacts from water overflows generated at the site. Once W-Well site's water can be incoporated into the water distribution system the District will develop new procedures to efficiently use this increase of well water availability to decrease surface water diversions on Telegraph Creek.

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	11/1/2021	12/31/2022
(b)	Land Purchase / Easement		
(c)	Planning/ Design / Engineering / Environmental Documentation	11/1/2021	6/1/2022
(d)	Construction/ Implementation	6/1/2022	9/30/2022

RESOLUTION 21-09
OF
RESORT IMPROVEMENT DISTRICT NO. 1 AND SHELTER COVE SEWER AND OTHER FACILITIES MAINTENANCE DISTRICT NO. 1

PROCLAMATION OF A LOCAL EMERGENCY DUE TO DROUGHT

WHEREAS, the governing body of Resort Improvement District No. 1 and Shelter Cove Sewer and Other Facilities Maintenance District No. 1 (District) has the authority to proclaim a local emergency; and

WHEREAS, California Government Code Section 3100 states that all public employees are declared to be disaster service workers subject to such disaster service activities as may be assigned to them by their superiors or by law, and the District needs to continue to provide water, wastewater electric, and fire and emergency services to its ratepayers, all of which are deemed essential public services; and

WHEREAS, any actions that the District may take to ensure the continuation of critical services to protect public safety and to provide for immunities that will protect the District for actions taken, as covered under the California Emergency Services Act; and

WHEREAS, with the support of the Humboldt County Drought Task Force created by the Humboldt County Board of Supervisors on May 25, 2021, the Board of Supervisors found that conditions of severe risk to the safety of persons and property and the integrity of natural and cultural resources have arisen within Humboldt County, including within the District, due to drought; and

WHEREAS, on March 5, 2021, the U.S. Department of Agriculture granted a Secretarial disaster designation for the County of Humboldt; on April 7, 2021, the U.S. Small Business Administration issued a Disaster Declaration in the County of Humboldt; on May 10, 2021, California Governor Newsom proclaimed a State of Emergency for drought in the County of Humboldt; on May 25, 2021, the Humboldt County Board of Supervisors established a Drought Task Force; on May 27, 2021, the Yurok Tribe declared a State of Emergency due to drought in the Klamath Basin and Yurok Reservation; on June 1, 2021, the Karuk Tribe declared a Climate Emergency in the Klamath Basin and Karuk Territory; on June 14, 2021, the Wiyot Tribal Council declared a State of Emergency on the Eel River, Mad River, Elk River, and Van Duzen River; on June 22, 2021, the City of Rio Dell declared a drought emergency; on July 13, 2021, the City of Trinidad declared a drought emergency; and

WHEREAS, the service area of the District is experiencing "Extreme Drought" conditions as reported on the U.S. Drought Monitor; and

WHEREAS, the entirety of the County of Humboldt is experiencing drought conditions ranging from "Severe Drought" to "Extreme Drought" as reported on the U.S. Drought Monitor; and

WHEREAS, prolonged drought conditions will have substantial negative impacts to the District's water supply, stream flows, natural, and cultural resources, public health, and wildfire risk; and

WHEREAS, working with the County of Humboldt, this proclamation authorizes the undertaking of powers and invoking and disseminating emergency orders (e.g., emergency orders, emergency spending authorities, emergency or pre-established contracting, order necessary Personal Protective Equipment, recovery, etc.) and regulations necessary to protect life, property and the environment; and

WHEREAS, this proclamation establishes that an emergency exists, and that if mutual aid of in-county resources are needed to assist the District, as covered under the California Master Mutual Aid Agreement and any local agreements to provide mutual aid should be sufficient to establish, and that the Emergency Services Act applies; and

WHEREAS, these conditions warrant and necessitate that the District proclaim the existence of a Local Emergency caused by drought.

WHEREAS, the District's General Manager and the District's Board of Directors declared the existence of a Local Emergency in connection with 2021 Drought in a regular public board meeting on August 19, 2021.

WHEREAS, the adoption of a resolution proclaiming the existence of a local emergency within the District s service territory by the District's governing board is necessary to ratify and adopt the emergency proclamation of its Board on August 19, 2021.

NOW, THEREFORE, IT IS HERBY PROCLAIMED that the Board of Directors of the Resort Improvement District No. 1 and Shelter Cove Sewer and Other Maintenance District No 1 hereby proclaims the existence of a Local Emergency due to drought and directs District staff to take the necessary steps for the protection of the District's water supply and the life, health, and safety of ratepayers and the people who reside and/or own property within the District.

IT IS FURTHER PROCLAIMED that during the existence of said local emergency, the powers, functions, and duties of the District shall be those prescribed by state law and by ordinances and resolutions of the District's Board of Directors.

IT IS FURTHER ORDERED that all departments of the District shall review and revise their department emergency and contingency plans to address the risks of the 2021 Drought poses to their critical functions in coordination with the District's General Manager and Fire Chief.

IT IS FURTHER PROCLAIMED AND ORDERED that Justin R. Robbins, General Manager, is hereby designated as the authorized representative of the District for public assistance.

IT IS FURTHER ORDERED that the District's internal departments shall coordinate District-wide planning, preparedness, and response efforts regarding the 2021 Drought with Humboldt County and other California State agencies as needed.

IT IS FURTHER PROCLAIMED AND ORDERED that this Resolution shall take effect immediately and that widespread publicity and notice shall be given said Proclamation through the most feasible and adequate means of disseminating such notice throughout the District.

BE IT FURTHER ORDERED that a copy of this Resolution be forwarded to Humboldt County to be forwarded to the Director of the California Governor's Office of Emergency Services.

PASSED AND ADOPTED this 19th day of August 2021 at a Regular Meeting of the Board of Directors of the Resort Improvement District No. 1, by the following vote:

AYES: Schad, Fox, Hargrave, Myers
NOES: None
ABSENT: Sommer
ABSTAIN: None

RESORT IMPROVEMENT DISTRICT NO. 1

By: _____
Michael Schad, President
Board of Directors

ATTEST:

_____
Justin R. Robbins, Board Secretary

PROJECT INFORMATION FORM

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

1. Project Name: Brooktrails Township Clarifier Project

2. Local Project Sponsor (if different than grantee): Brooktrails Township Community Services 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: 39.433594 Longitude: -123.382391

4. Please briefly describe the proposed project.

   During the 2021 drought, the District's 45-year old clarifier required emergency repairs. The sole clarifier removes suspended solids as the first step in treatment at the drinking water treatment plant. Failure of the clarifier and the need to take the clarifier offline for repairs results in the risk of loss of the ability to distribute water from the treatment plant to all customers. That risk is greater during drought conditions due to incrased solids from algae and low flow water quality issues in local surface water. To provide reliable safe drinking water when the 130,000 gallon clarifier fails or has to be taken offline for repairs, a second clarifier is needed for redundancy at the drinking water treatment plant.

   The proposed project is to add a modern packaged clarifier system with a tank/basin that could accommodate up to 200 gallons per minute, providing secondary service while the primary clarifier is repaired. This project will extend the life of the existing clairifier by at least ten years, by reducing usage demands.

   Brooktrails Township CSD strictly enforces a usage cap of 9,000gal/month/connection to conserve community water supplies.

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.

   After the emergency repairsmentioned above, the District realized the urgency needed to add a second clarifier. Brooktrails Township CSD's proposed clarifier project provides benefits to an underrepresented community facing a Human Right to Water challenge. The project provides direct water-related benefits to the residents located in unincorporated area outside Willits, California.

   The NCRP data map (located at https://northcoastresourcepartnership.org/data/) demonstrates that this area is entirely comprised of a "Disadvantaged Community"

(DAC) and almost entirely comprised of a "Severely Disadvantaged Community" (SDAC). Brooktrails Township is a Census Designated Place (CDP) and the primary population center within the District, Brooktrails CDP, has an MHI of $55,032 (+/- $16,298) per the 2019 American Community Survey 5-Year Estimates, which is 77% of the Statewide MHI.

The proposed project will provide significant reliability improvements to the District's water treatment system through the installation of the second clarifier. A second clarifier will provide needed redundancy that is designed into modern treatment plants in order to avoid an emergency should the existing 130,000 gal clarifier fails or has to be taken offline for repairs. Emergency repairs on the clarifier were needed during the 2021 drought, which left the community without a realiable water source. This project will extend the life of the existing clarifier by being able to take it offline for maintenance. Suspended solids removal from surface water supplies is critical to public health. Especially during summer months and drought conditions when the water quality decreases becoming subject to harmful solids such as algae at higher temperatures. Below is Brooktrail Township CSD's Human Right to Water scoring relative to water quality, accessibility and affordability indicators.

HR2W: Water Quality Score (possible range: 0 - 4)
Brooktrails Water Quality Composite Score: 0.96
-High Potential Exposure Score: 1 (This system had: 1 contaminant with high potential exposure.)
-Duration of High Potential Exposure Score: 1 (This system had: Maximum of 1 year high potential exposure.)
-Data Availability Score: 0 (This system had: 14 contaminants (out of 14) with req. data in study period.)
-Compliance with Primary Drinking Water Standards Score: 1 (This system had: 1 contaminant with at least 1 MCL violation in study period.)
-Maximum Duration of Non-Compliance Score: 1 (This system had: Maximum of 1 year non-compliance)

HR2W: Water Accessibility Score (possible range: 0 - 4)
Brooktrails Water Accessibility Composite Score: 1.00
Physical Vulnerability to Water Outages Score: 1.00

HR2W: Water Affordability
This system serves 3,800 people.
Brooktrails Water Affordability Composite Score is: No Data

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.

GOAL 1: INTRAREGIONAL COOPERATION & ADAPTIVE MANAGEMENT
-Objective 1 - Respect local autonomy and local knowledge in Plan and project development and implementation. The Project supports this goal by improving water supply reliability of the system.

GOAL 2: ECONOMIC VITALITY
-Objective 4 - Ensure that economically disadvantaged communities are supported and that project implementation enhances the economic vitality of disadvantaged communities by improving built and natural infrastructure systems and promoting adequate housing. The Project benefits an economically disadvantaged community.

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 9 - Improve drinking water quality and water related infrastructure to protect public health, with a focus on economically disadvantaged communities - The Project improves the reliability of supply and the infrastructure by preventing loss of service and failure of infrastructure.

8. Describe the Primary Benefit of the project.
   Quantified benefit: 130,000
   Units (Drop down):Other If other please enter: Gallons
   Benefit Type: Water Supply If other please enter: Gallons saved if clarifier fails.

9. Describe the Secondary Benefit of the project:
   Quantified benefit:
   Units (Drop down):Other If other please enter:ppb/ppm/ntu
   Benefit Type: Water Quality - Surface Water If other please enter:Suspended solids flocculation and treatment; clarifier failure could introduce contaminants into the drinking water distribution system.

10. Please briefly describe how the project will achieve the claimed benefits.
    The clarifier is 45-years old and required emergency repairs during the 2021 drought. The clarifier removes suspended solids prior to flowing through the remainder of the treatment system. Failure of the clarifier results in the inability to distribute water to all customers.

To take the clarifier offline for time-consuming repairs and to reduce its usage to extend its life, a secondary clarifier is required. A modern package clarifier system and tank/basin is proposed, which can accommodate up to 200 gpm flow, providing service while the primary clarifier is repaired and maintained. This project will increase the life of the existing clairifier by at least ten years. A modern packaged clarifier system is compatible with the treatment practices currently used a the water treatment plant and can easily be tied in.

11. Briefly describe how the community/area benefiting from this project is being impacted by the current drought.

Brooktrails Township customers are required to conserve water under the enforcement of a monthly water use cap of 9,000gal/month/connection which has been in place since 2016 after a drought induced curtailment ended in 2015. This mandatory conservation has helped maintain community water supplies effectively until recently. Water supplies were below 50% prior to recent rains this year, sustained primarily due to strict water conservation enforcement. In DWR's 2020 Part II – Drought and Water Shortage Vulnerability Assessment and Risk Scoring, Brooktrails CSD was identified as an At-Risk system for drought impacts based on past drought impacts. Additionally, the State Water Resources Control Board's Safe and Affordable Funding for Equity and Resilience (SAFER) program identified the Brookdale CSD as beign at At-Risk of failing to meet one or more key Human Right to Water goals including maintaining a sustainable water system.

12. How will this project alleviate the impacts described in your answer to Question 11?

Emergency repairs on the clarifier during the 2021 drought caused by heavy particulate input form algae and sediemnt put the limited water supplies of the District at risk. Water quality is also lower during drought conditions as surface water reservoirs warm and supply levels drop. An alternate clarifier basin would provide the protection needed during drought conditions when the primary clarifier fails.

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	1,500	0	1,500
(b)	Land Purchase / Easement	0	0	**0**
(c)	Planning / Design / Engineering / Environmental Documentation	3,500	2,500	6,000
(d)	Construction / Implementation	105,000	58,500	163,500
	TOTAL COSTS	**110**,000	**61**,000	**171**,000

14. Please describe why state funding is needed for this project. If state funding is not secured, what

will happen to the project?

There is minimal to no population growth in the District. The infrastructure in the District was built all at once and the capital improvement plan cannot support another significant project cost of this scope. The customers in the District cannot afford a rate increase of over $60 per year, which is what this project would cost per connection. Brooktrails is a disadvantaged community with areas of severely disadvantaged population as indicated by Department of Water Resource DAC map.

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 District is able to use up to $61,000 of its administrative and capital funds to support this project. Repairs to the existing clarifier are included in Budget Category (d).

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.

    No

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

    No site design has been started. A package clarifer and concrete basin concept has been developed for the drinking water treatment plant. A manufacturer with a compatible system has been identified and a quote has been provided, though subject to current material escalation trends.

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.

    District staff and counsel will complete and file necessary CEQA ND/MND documentation for the project.

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

    The proejct to be designed will include: Clearance of 250 square feet of pavement at the treatment plant site with very minor grading, cast in place concrete basin, installation of package clarifier with the associated trenching, pipes and appurtenances. Specialty contractors for concrete work and clarifier package install, staff for trenching and tie-in. Manufacturer support likely for clarifier package install.

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	9/30/2023
(b)	Land Purchase / Easement		
(c)	Planning/ Design / Engineering / Environmental Documentation	4/1/2022	1/30/2023
(d)	Construction/ Implementation	2/1/2023	9/30/2023

PROJECT INFORMATION FORM

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

1. Project Name: Installation of Smart Meters in Jenner, CA

2. Local Project Sponsor (if different than grantee): Sonoma County Department of Transporation and Public Works

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: 38.449730 Longitude: -123.115036

4. Please briefly describe the proposed project.

   CSA-41 is a small water system that serves approximately 128 connections for the community of Jenner by the Sea. It is in a water scarce area, which over the last five years has been plagued by significant water loss; at times, over 50% of production goes unaccounted for. From 2018 -2020, the system lost from 74,000 to 307,000 gallons of water per month. The existing meters are over 20 years old, and as such it is most likely the case that much of this water loss is due to unrecorded use. Under these circumstances, meters with age lose the ability to record low flows of water. In addition, what water flow they do record can be significantly less than what is going through the meter. If there is no obvious sign like pooling water, we are not able to pinpoint if/where there is a leak. Without accurate meter readings it is difficult, if not impossible, to discern if water lossis due to the meters, as opposed to leaks in the system. This contributes not only to an unreliable water supply, but also possible loss of revenue that could be used to maintain the system as a whole.

   The County is proposing to address this through the purchase and installation of Badger smart meters, funded by DWR. Existing meters would be swapped out in-kind with the new smart meters, which are capable of broadcasting daily usage through cell signals to a cloud-based system. New plastic lids would also replace existing concrete vault lids to facilitate good signal strength at each replacement meter location.

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, as the cause of the significant water loss within the system cannot be identified given the age and deterioration of the area's current equipment. By switching out the current water meters for smart meters, Jnner's water system will be able to identify if water loss is due to unrecorded usage or leaks. This will lead not only to conservation efforts, but also allow us to identify if other repairs are necessary. This project will

lead to operational efficiency, repair/leak identification, and conservation efforts by residents and businesses in the area.

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.
    North Coast IRWM:

    GOAL 2: ECONOMIC VITALITY
    -Objective 5 - Conserve and improve the economic benefits of North Coast Region working landscapes and natural areas

    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

    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.

8. Describe the Primary Benefit of the project.
    Quantified benefit: 307000
    Units (Drop down):Other If other please enter:(up to) gal lost/month

    Benefit Type: Water Conservation If other please enter:

9. Describe the Secondary Benefit of the project:
    Quantified benefit: 0

Units (Drop down):Other If other please enter:(up to) 50% water loss/mo

Benefit Type: Improve operational efficiency If other please enter:

10. Please briefly describe how the project will achieve the claimed benefits.
    By switching out the current water meters for smart meters, Jenner's water system will be able to identify if water loss is due to unrecorded usage or leaks. This will lead not only to conservation efforts, but also allow us to identify if other repairs are necessary.

11. Briefly describe how the community/area benefiting from this project is being impacted by the current drought.
    The community's water supply has been greatly impacted by the recent drought. Residents were asked to reduce usage by 40% to conserve potable water.
12. How will this project alleviate the impacts described in your answer to Question 11?
    During the latest drought, communities were asked to reduce their water usage by up to 40% to ensure a stable water supply. Given the unreliability of this community's water meters, residents do not have a clear idea of how much water they are actually using. This makes conservation a guessing game at best, and prevents the district from having reliable data with which to pinpoint their conservation efforts. The bigger concern, however, is that resident conservation may not be enough. Conservation is not effective if we are unable to identify why so much water is being lost in this system. This project will lead to operational efficiency, repair/leak identification, and conservation efforts by residents and businesses in the area.
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	0	850	**850**
(b)	Land Purchase / Easement	0	0	**0**
(c)	Planning / Design / Engineering / Environmental Documentation	0	0	**0**
(d)	Construction / Implementation	74,000	0	74,000
	TOTAL COSTS	74,000	850	74,850

14. Please describe why state funding is needed for this project. If state funding is not secured, what will happen to the project?
    Given the limited number of connections, residents/water system users are unable to fund this project on their own. Without state funding this project cannot be implemented.

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.

All TPW staff labor will be absorbed by the department and will not be billed to this project. This includes overseeing day-to-day operations as well as grant management activity. This project will not require additional funding.

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.

    No

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

    None will be required as this is straightforward 1:1 equipment replacement.

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.

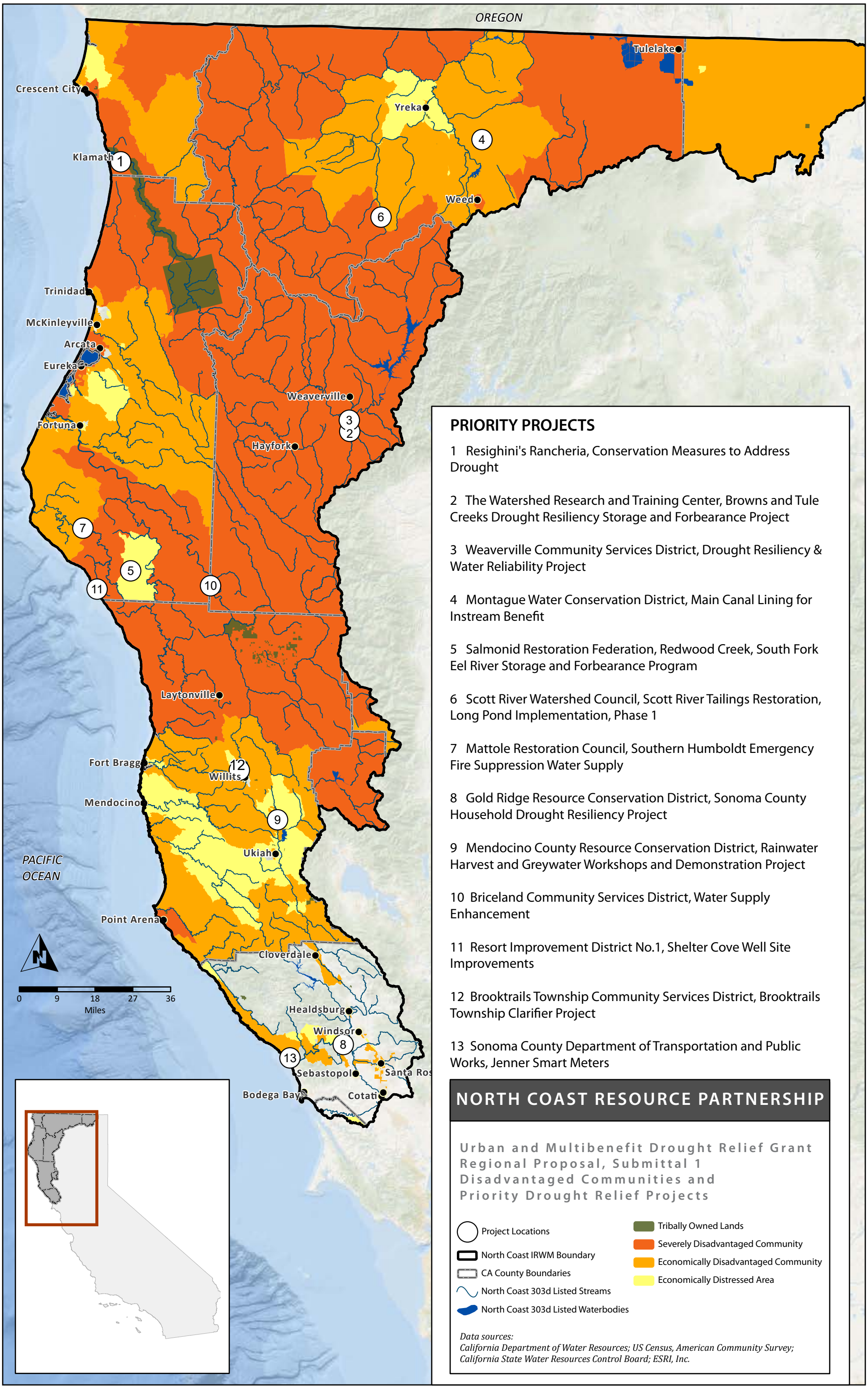
    None will be required.

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

    Logistically, this is a simple operation with two staff members of Russian River Utilities, the County's contracted operator going lot by lot swapping the meters out.

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	6/1/2023
(b)	Land Purchase / Easement		
(c)	Planning/ Design / Engineering / Environmental Documentation		
(d)	Construction/ Implementation	1/1/2023	6/1/2023



PRIORITY PROJECTS

1 Resighini's Rancheria, Conservation Measures to Address Drought

2 The Watershed Research and Training Center, Browns and Tule Creeks Drought Resiliency Storage and Forbearance Project

3 Weaverville Community Services District, Drought Resiliency & Water Reliability Project

4 Montague Water Conservation District, Main Canal Lining for Instream Benefit

5 Salmonid Restoration Federation, Redwood Creek, South Fork Eel River Storage and Forbearance Program

6 Scott River Watershed Council, Scott River Tailings Restoration, Long Pond Implementation, Phase 1

7 Mattole Restoration Council, Southern Humboldt Emergency Fire Suppression Water Supply

8 Gold Ridge Resource Conservation District, Sonoma County Household Drought Resiliency Project

9 Mendocino County Resource Conservation District, Rainwater Harvest and Greywater Workshops and Demonstration Project

10 Briceland Community Services District, Water Supply Enhancement

11 Resort Improvement District No.1, Shelter Cove Well Site Improvements

12 Brooktrails Township Community Services District, Brooktrails Township Clarifier Project

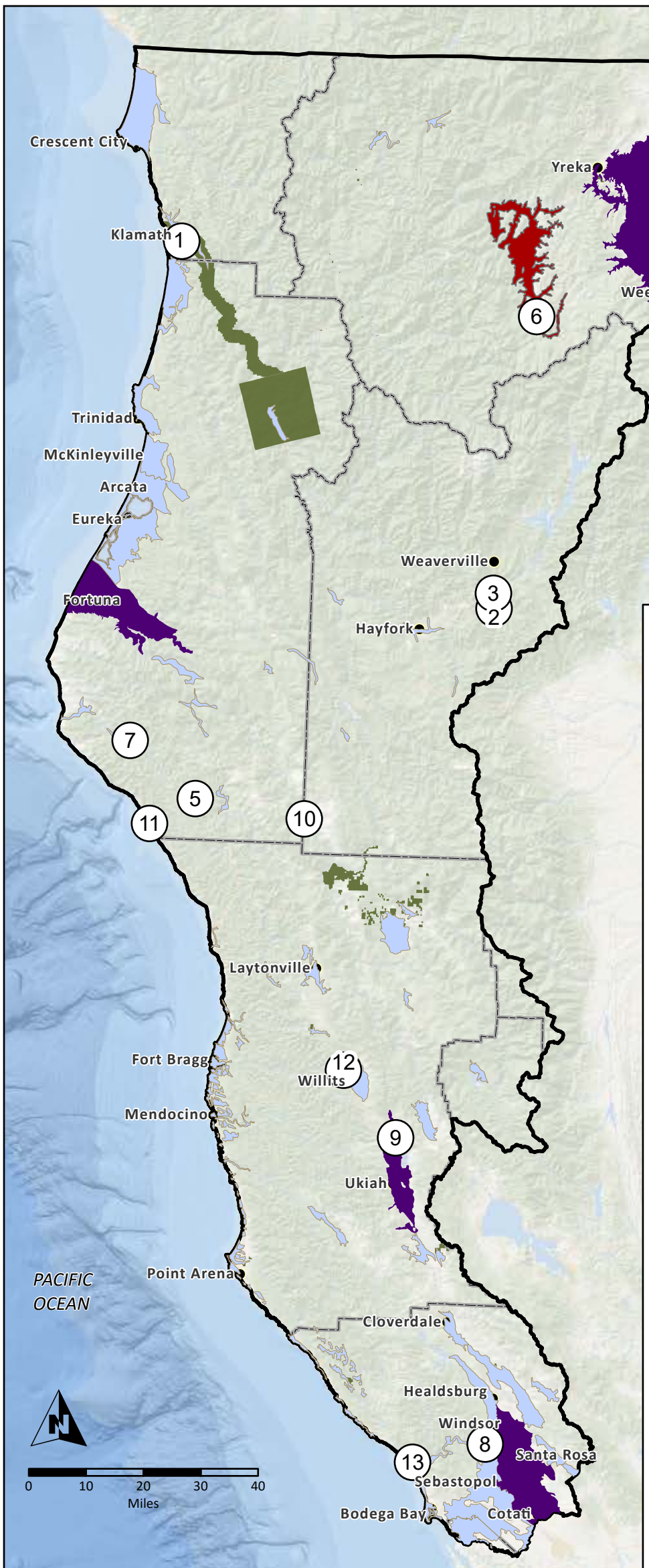
13 Sonoma County Department of Transportation and Public Works, Jenner Smart Meters

NORTH COAST RESOURCE PARTNERSHIP

Urban and Multibenefit Drought Relief Grant Regional Proposal, Submittal 1
Disadvantaged Communities and Priority Drought Relief Projects

- Project Locations
- North Coast IRWM Boundary
- CA County Boundaries
- North Coast 303d Listed Streams
- North Coast 303d Listed Waterbodies
- Tribally Owned Lands
- Severely Disadvantaged Community
- Economically Disadvantaged Community
- Economically Distressed Area

Data sources:
California Department of Water Resources; US Census, American Community Survey; California State Water Resources Control Board; ESRI, Inc.



PRIORITY PROJECTS

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13 Sonoma County Department of Transportation and Public Works, Jenner Smart Meters

NORTH COAST RESOURCE PARTNERSHIP

Urban and Multibenefit Drought Relief Grant Regional Proposal, Submittal 1 Groundwater Basins

- Project Locations
- North Coast IRWM Boundary
- CA County Boundaries
- Tribally Owned Lands

Basin Prioritization
- Medium
- Low
- Very Low
- Adjudicated Basin

Data sources:
California Department of Water Resources; US Census, American Community Survey; California State Water Resources Control Board; ESRI, Inc.