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system that utilizes some of its original components that date back to the 1880's. Many components of the system are outdated, undersized, leaking, or have failed since they were installed.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