

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: Etna Creek Real Time StreamFlow Monitoring Project
2. Local Project Sponsor (if different than grantee):
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°25'40.04N

Longitude: 122°55'15.13W

4. Please briefly describe the proposed project.
Etna Creek is a critical stream system to the Scott River watershed and the sole water supply for the City of Etna. In order for the City of Etna to evaluate its water supply and growing water scarcity concerns, the proposed project is to install a real time flow station on Etna Creek, and associated. This project would allow data on current stream conditions to be available to the City of Etna which would aid in its ability to implement water conservation efforts in times of drought. Without the ability to have real time streamflow data, the City's ability to prepare for drought and encourage and enforce a water conservation plan is extremely limited. Not only would a flow station benefit the City of Etna, but the data would also add to the body of work around the State's Sustainable Groundwater Management Act (SGMA). This project would serve a multi purpose for both the City of Etna and the Scott River watershed as a whole.
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.
Along with the rest of California and much of the Western United States, the City of Etna is experiencing a prolonged drought and above-average heat temperatures. Precipitation in Scott Valley during the 2020-2021 winter was far below average and, combined with the historical drying trend, has resulted in current, low instream flows in the region, including in Etna Creek. The Scott River and particularly Etna Creek, is a snowpack driven system. Snow surveys in the Etna Creek watershed since 1951 show a strong declining trend in both snow depth and water content. With the impact of climate change affecting the region, it is predicted that this will continue to accelerate, continuing to put strain on the City's water supply.

The City of Etna, its residents, and businesses are entirely dependent on diverted water from Etna Creek for all uses. While the City has a water right to divert water for municipal purposes, California law requires Etna, as well as any other diverters, to leave water instream for other beneficial purposes, including fish and wildlife. Thus,

as instream flow continues to decrease over the summer, so will the amount of water that Etna may lawfully divert. Less water diverted will, in turn, place additional pressure on the City of Etna, its residents and businesses to conserve water and potentially even eliminate discretionary uses (gardens and existing landscaping) altogether as those uses increasingly conflict with higher priority uses such as public health (e.g., drinking water, sanitation, etc.) and public safety (e.g. fire protection). Having the ability to monitor the streamflow real time will help implement and enforce essential water conservation measures, which in turn will help keep more water instream for the benefit of wildlife.

6. Each project must meet one of the following purposes as it relates to drought. Please select the appropriate purpose for your project.
- Address immediate impacts on human health and safety, including providing or improving availability of food, water, or shelter.
 - Address immediate impacts on fish and wildlife resources.
 - 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

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

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 of 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

8. Describe the Primary Benefit of the project.

Quantified benefit: 2

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: 2.4

Units (Drop down):Cubic feet per second If other please enter:

Benefit Type: Improve operational efficiency If other please enter:

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

This project will allow the City of Etna to know when to trigger implementation of water conservation measures, allowing for more water to remain instream for the benefit of fish and wildlife. It also improves the City's water delivery system by allowing actual real time data to be used for the various reporting such as the curtailment orders and 1600 permitting.

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

The City of Etna's relies solely on the streamflow of Etna Creek, a tributary to the Scott River stream system, for water supply. The City does not have a second source of water. Besides the threat of fire, water scarcity is the single biggest threat to public health and safety to the residents and all other water users reliant on water from Etna Creek. These impacts not only affect the residents and businesses, they also affects three schools, Etna Elementary, Scott River High School and Etna High School, and the youth of the entire Scott Valley. Siskiyou County has experienced significant drought. According to DWR's 2021 Report Part II – Drought and Water Shortage Vulnerability Assessment and Risk Scoring. Six of the 15 community area wells are experiencing drought. In addition, the SWRCB has issued a curtailment notice for the Scott River Watershed.

The City has a claimed water right that has been adjudicated by the state and the City is allow to divert up to 2.4 cubic feet per second. The City is required by the terms of the Scott River Decree to "reasonable use", fundamentally not allowing the act of diverting water to "unreasonably impair the quality of the natural flow." Other state laws also require water to be left instream for other beneficial purposes such as fish and wildlife, but no specific bypass flow volume is included in the decree. Prior to 2020 and 2021, virtually no data was collected on Etna Creek stream flow. In 2019, the SRWCB established a manual flow monitoring system that is solely dependent on hand flow measurements and a maintenance of the data logger to obtain the information. In both drought years, SRWCB did document the stream flow fell below the City's water right allocation of 2.4 cubic feet per second however the fact that the information is not real time, makes it impossible to understand the current stream conditions, and react in a timely manner to prepre for low stream flows.

As an example of the magnitude of the situation, the State Water Resources Control Board issued an "ORDER IMPOSING WATER RIGHT CURTAILMENT AND REPORTING REQUIREMENTS IN THE SCOTT RIVER WATERSHED FOR WATER RIGHT(S) ASSOCIATED

WITH THE PARCEL(S) LISTED IN ATTACHMENT A AND NOT OTHERWISE CURTAILED " (ORDER WR 2021-0084-DWR) on September 10, 2021. This first ever order fundamentally required all surface water and groundwater divisions to cease except for the needs for human health and safety. Given the lack of data for the streamflow within Etna Creek, compliance with the order was made more difficult to report to the State on the City's water conservation efforts.

12. How will this project alleviate the impacts described in your answer to Question 11?
 Having the ability to track, monitor and communicate real time streamflow for Etna Creek will allow the City of Etna and other water management organizations, the State Water Board, the North Coast Water Quality Control Board and the California Department of Fish and Wildlife, to provide actionable information to the City water users. Ultimately, the City will be able to promote, encourage and enforce effective water use, improving Etna's overall stewardship of water and therefore by the act of water conservation will leave more water instream for the benefit of fish and wildlife. The City of Etna adopted a Water Conservation Plan in the summer of 2021 and relies heavily on volunteer measures before punitive damages are pursued, however not being able to communicate current conditions jeopardizes conservation efforts and may result in a failure to comply with both the Conservation Plan and/or any curtailment orders.

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	9,500		9,500
(b)	Land Purchase / Easement			
(c)	Planning / Design / Engineering / Environmental Documentation	54,500		54,500
(d)	Construction / Implementation	73,000		73,000
	TOTAL COSTS	137,000		137,000

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

There are several reasons why state funds are needed. The most immediate one is the reality of the need to address water scarcity, which is becoming increasingly obvious with these multiyear and historic dry years. It is essential that the City of Etna have the data regarding streamflow in order to effectively manage its only water source. The reality of finding grant funding to support this type of project is limited. If these funds are not received, SRWC will continue to seek other funding sources however the time needed to do so will drastically limit the City's ability to communicate, encourage and enforce water conservation efforts.

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 City of Etna recently applied for funding through the Urban and Multibenefit Drought Relief Grant Program for "City of Etna's Water Meter Modernization and Water Security Project." This is a 2M project that increases the water storage capacity, develops an emergency water source and will install a smart watering metering system. These two projects are symbiotic to each other. The flow station was not included in the City's application to the State as it does not possess the equipment, staff or expertise needed to to install, maintain or analyze the manual gaging system or its data, hence the reason for SRWCB taking the lead on this project. The other water system improvements are not be counted as match, however the new real-time monitoring will be linked in with the new systems.

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 City of Etna's water division infrastructure already possesses an easement on the private land therefore this project will fall under those easement rights.

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

SRWC has been in consultation with the Quartz Valley Indian Reservation (QVIR) as they recently installed a simple system on Shackleford, another tributary to the Scott River. Conceptual planning and design work has been completed however a full design for the system will need to be completed, which will include obtaining accurate survey data of the stream channel and adjacent land terrace to inform placement of infrastructure (estimated at \$4,500) and design/ bid package preparation of the flow station, including a site plan, equipment specifications, and electrical and controls requirements (estimated at \$15,000). The project will also include negotiation of of stream gage maintenance agreements, which is estimated at \$5,000.

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.

The environmental compliance for this grant has not been completed and is proposed as part of this project. A mitigated negative declaration (MND) will be used for CEQA compliance and either the City of Etna or the California Department of Fish and Wildlife will be the lead agency. The completion of the MND will done on or before 9-1-22 so that implementation of the station can be done during this critical time. The costs for the CEQA MND are estimated at \$30,000).

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

The Project will include installation of a water quality datasonde and flow gage connected to a satellite transmission antenna to report out the real time data. The project will require a 10 inch galvanized pole, equipped with a metal box (approx. size 3ft X 3ft X 10 inch) for housing the logger, to be embedded into a 2ft diameter X 4ft depth hole filled with concrete

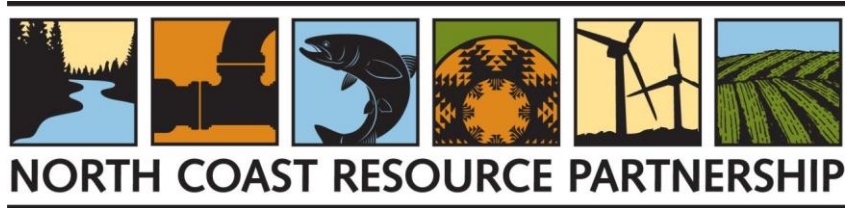
for stability up on a land terrace, outside the stream channel of Etna Creek. Conduit will run from the gage box to the datasonde and to an orifice line. Orifice line conduit will be a 2 inch galvanized pipe that will be securely fastened to nearby bedrock within the stream channel within a pool formation. This will require several holes to be drilled sixteen inches into the bedrock, epoxy will set a steel pin in each hole, and then a C-shaped clamp will be placed over the orifice line and a sleeve is placed over the steel pin. The datasonde conduit will be 2 inch 'anaconda flex hose' and will be underground, at a depth of approximately 1-foot and 5 feet maximum length. A small 2" galvanized pole will be mounted on the side of the gaging box to provide conduit for the satellite wires, a GPS globe, solar panel and satellite transmission antenna, providing the ability to get the information real time.

To calibrate the system, biweekly flow measurement will be taken during the entire term of the grant and possibly more frequently during high flows or during the recessional flows in late or early summer. Data from hand measurements and the datasonde will be QA/QC'd on a monthly basis to ensure reliability of the data system.

The estimated cost of materials and installation is \$58,000, and the estimated costs for the system calibration is \$15,000. The installation of the gage is anticipated to be completed in Fall 2023, and the project timeline extends to summer 2025 for the calibration of the monitoring 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	5/31/2022	8/31/2025
(b)	Land Purchase / Easement	5/31/2022	7/15/2022
(c)	Planning/ Design / Engineering / Environmental Documentation	5/31/2022	9/1/2022
(d)	Construction/ Implementation	9/1/2022	5/31/2025



NORTH COAST RESOURCE PARTNERSHIP

Urban and Multibenefit Drought Relief Grant, 2021 Eligibility and General Project Information Application

The Eligibility and General Project Information Application will be accepted until 5:00 pm, November 17, 2021

It is important to save the Eligibility and General Project Information Application file with a distinct file name that references the project name. Please fill out grey text boxes and select all the check boxes that apply to the project. Application responses should be clear, brief and succinct. When the application is complete, please email to Katherine Gledhill at kgledhill@westcoastwatershed.com

If you have questions or need additional information please contact:

- General Information: Katherine Gledhill at kgledhill@westcoastwatershed.com or 707.795.1235
- Technical Assistance/Support: Colette Metz Santsche, colettem@planwestpartners.com or 707.825.8260
- Tribal Projects: Sherri Norris, NCRP Director of Tribal Engagement at sherri@cieaweb.org or 510.848.2043

A. GENERAL INFORMATION

1. **Project Name:** [Etna Creek Stream Flow Monitoring](#)
2. **Project Abstract** [500 characters]

[Etna Creek stream flow is a critical stream system to the Scott River watershed and the sole water supply for the City of Etna. For Etna to evaluate its water supply, there is a critical need to establish a flow station on Etna Creek. Real time streamflow data would provide Etna the ability to implement water conservation efforts and comply with recent curtailment orders issued by the State. As snowpacks and precipitation decline, it is becoming increasingly important to have data that allows for effective water use management for both human and wildlife benefits.](#)

3. **Local Project Sponsor Name:** [Scott River Watershed Council](#)
4. **Contact Name/Title**
Name: [Charnna Gilmore](#)
Title: [Executive Director](#)
Email: charnna@scottriver.org
Phone Number (include area code): [530-598-2733](#)

5. Does your Organization need technical assistance and/or proposal development support for the NCRP Urban and Multibenefit Drought Relief Grant proposal?

yes no

Please briefly describe the technical/proposal support needed.

The project is straightforward however would benefit with technical assistance to help identify some of the nuances in order to ensure the implementation can be expedited without unintended or unexpected actions.

6. Organization Type

Public agency

Non-profit organization

Public utility

Special District

Mutual Water Company

Federally recognized Indian Tribe

Non-federally recognized Native American Tribes on the contact list maintained by the Native American Heritage Commission for the purposes of Chapter 905 of the Statutes of 2004

Other:

7. If the Local Project Sponsor is a mutual water company or public utility, does the 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

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

N/A - SRWC is not a mutual water company

9. Has the organization implemented similar projects in the past? yes no

10. Describe the drought conditions in the area where your project is located.

Note: This question is important and must be answered.

B. PROJECT BENEFITS TO DISADVANTAGED COMMUNITIES AND/OR TRIBES

1. Does the project provide direct benefits to a project area comprised of Disadvantaged Communities?

If partially, please estimate percentage of project that benefits disadvantaged communities and list the communities.

• Entirely

• Partially

• No

List the Disadvantaged Community(s) (DAC)

City of Etna

2. **Does the project provide direct benefits to a project area comprised of Severely Disadvantaged Communities (SDAC)?** If partially, please estimate percentage of the project that benefits the severely disadvantaged community(s) and list the SDACs.

- Entirely
- Partially
- No

List the Severely Disadvantaged Community(s)

3. **Does the project provide direct benefits to a Tribe or Tribes?** If partially, please estimate percentage of project that benefits Tribes and list the Tribes.

- Entirely
- Partially
- No

List the Tribal Community(s)

If yes, please provide evidence of support from each Tribe listed as receiving these benefits.

a) Is a Tribal letter of support included in the application?

- yes no

C. NCRP GOALS AND OBJECTIVES

Please check the NCRP goals/objectives below that align with your project goals/objectives. Note: you may skip Question 7 on the PROJECT INFORMATION FORM.

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

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

D. DEPARTMENT OF WATER RESOURCES ELIGIBILITY

1. URBAN WATER MANAGEMENT PLAN

a) Is the organization required to file an Urban Water Management Plan (UWMP)?

yes no

b) If Yes, list the date the UWMP was approved by DWR:

c) Does the urban water supplier have a complete and validated water loss audit report verified by DWR in accordance with Senate Bill No. 555 (Stats. 2015, ch. 679).

yes no N/A

d) Does the urban water supplier meet the water meter requirements of CWC 525?

yes no N/A

e) Is the urban water supplier compliant with requirements to submit to the State Water Resources Control Board their monthly water use reports in compliance with requirements outlined in the California Code of Regulations, title 23, sections 991?

yes no N/A

f) If facing water supply shortages, the urban water supplier must have activated a Water Shortage Contingency Plan to a stage commensurate with their current water supply conditions. Has the applicant reported activation of the plan to the State Water Board?

yes no

2. AGRICULTURAL WATER MANAGEMENT PLAN

a) Is the organization – or any organization that will receive funding from the project – required to file an Agricultural Water Management Plan (AWMP)?

- yes no
- b) If Yes, list date the AWMP was approved by DWR:
- c) Does the agricultural water supplier(s) meet the requirements the Water Code and Executive Order (EO) B-29-15?
- yes no N/A

3. SURFACE WATER DIVERSION REPORTS

- a) Is the organization a Surface Water Diverter?
- yes no
- b) If Yes, has the organization filed annual and monthly surface water diversion reports to the SWRCB per the requirements in Water Code section 5100 et seq., and California Code of Regulations, title 23, sections 907-930?
- yes no

4. CALIFORNIA GROUNDWATER MANAGEMENT COMPLIANCE

- b) Does the project that directly affect groundwater levels or quality?
- yes no
- c) If Yes, is the Project located in a CASGEM High or Medium priority groundwater basin?
- d) Please list the groundwater basin: N/A
- e) Does the above CASGEM High or Medium priority groundwater basin(s) have an adopted GWMP in compliance of Water Code section 10753 before January 1, 2015?
- yes no
- f) If yes, is a GSA letter of support included in the application?**
- yes no
- For groundwater projects or other projects that directly affect groundwater levels or quality in a high or medium priority basin, documentation that the project has support from the Groundwater Sustainability Agency (GSA) of the impacted groundwater basin(s), or the agency responsible for implementing an alternative plan is required to be included with the application.

5. CASGEM COMPLIANCE

- a) Does the project overlie a medium or high groundwater basin as prioritized by DWR?
- yes no
- b) If Yes, list the groundwater basin: Scott River Watershed
- c) If Yes, please specify the name of the organization that is the designated monitoring entity: Flood Control District County of Siskiyou
- d) If there is no monitoring entity, please indicate whether the project is wholly located in an economically disadvantaged community.
- yes no N/A
- e) **If yes, is a map that shows the Project's implementing agency's service area boundary and DAC overlay included in the application?**
- yes no
- Note: Consistent with Water Code section 10933.7(b), if the entire service area of the individual Local Project Sponsor's service area is demonstrated to be a disadvantaged community, the project will be considered eligible for grant funding notwithstanding CASGEM compliance. If the Local Project Sponsor is exempt, a map must be included with the application that shows the Project's implementing agency's service area boundary. The map should include a DAC overlay to demonstrate the project is exempt. Please contact NCRP staff for assistance.

6. STORM WATER MANAGEMENT PLAN

- a) Is the project a stormwater and/or dry weather runoff capture project?
 yes no
- b) If yes, please provide the name of the Stormwater Resource Plan (or Functionally Equivalent Stormwater Resource Plan) that the project is listed in. N/A
- c) If the project is a stormwater project but is not listed in a Stormwater Resource Plan, does the project benefit a Disadvantaged Community with a population of 20,000 or less?
 yes no