

## 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: 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.  
**This project will line 6,000' of a water delivery canal to improve water supply reliability for agriculture, municipal users and enhance instream conditions to benefit salmonids.**
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.  
**While increasing delivery dependability to agriculture and municipal water for the City of Montague, this proposal presents numerous opportunities to enhance instream condtions 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 structure protection on the nearby Lava and Antelope Fires.**
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.

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 their income base. MWCD also provides releases for instream benefit that supports natural resources and coastal communities that depend on commercial and recreational 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 permanently 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 infrastructure 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 inefficient 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 preceded by a critically dry year in 2020. Montague Water Conservation District was able to acquire 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 water 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)

	<b>BUDGET CATEGORY</b>	<b>Grant Amount</b>	<b>All Other Cost</b>	<b>Total Cost</b>
<b>(a)</b>	Project Administration	30,000		
<b>(b)</b>	Land Purchase / Easement			
<b>(c)</b>	Planning / Design / Engineering / Environmental Documentation	40,000		
<b>(d)</b>	Construction / Implementation	900,000		
	<b>TOTAL COSTS</b>	<b>970,000</b>		

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 permanently 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 identified instream flows volumes to benefit Threatened Coho Salmon and other cold water dependent species in the Shasta River. Water provided to the City of Montague via the Shasta River from Dwinnell Reservoir enhances instream flow objectives while efficiently delivering 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 exemption for canal lining.
19. Please briefly describe the necessary construction/implementation for this project.  
 The existing canal reaches proposed for lining are currently earthen canals. Significant seepage loss occurs as a result of the porous ditches. MWCD proposes to line the earthen ditches by first creating improved access on existing maintenance roads to provide access for concrete trucks. Using heavy equipment, the canal is then reprofiled and graded to form a trapezoidal 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 pressure 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.

	<b>Categories</b>	<b>Start Date</b>	<b>End Date</b>
(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



## **NORTH COAST RESOURCE PARTNERSHIP**

### **Urban and Multibenefit Drought Relief Grant, 2021**

### **Eligibility and General Project Information Application**

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**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](mailto:kgledhill@westcoastwatershed.com)

**If you have questions or need additional information please contact:**

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

#### **A. GENERAL INFORMATION**

**1. Project Name:**

MWCD-Main Canal Lining for Instream Benefit

**2. Project Abstract [500 characters]**

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. MWCD provides multiple beneficial uses including irrigation, municipal to the City of Montague and enhancement of streamflow for fish and wildlife benefits. MWCD proposes to line 6,000' of its main canal with shot-crete to improve delivery efficiency. In exchange, MWCD will dedicate conserved water for instream benefit.

**3. Local Project Sponsor Name:**

Montague Water Conservation District

**4. Contact Name/Title**

Name: Lisa Faris

Title: MWCD Office Manager

Email: [mwcd@att.net](mailto:mwcd@att.net)

Phone Number (include area code): 530 459-3371

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.

**MWCD's proposal is largely completed and we feel confident with the budget as previously funded phases have been completed. We may need minimal assistance formatting to this proposal to the template.**

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:

The public benefit results in increased and more flows for fish and wildlife, a public trust resource

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.

The Shasta River just experienced the driest water year on record preceded by a critical dry year in 2020. MWCD's Dwinnell Reservoir is currently at 7% capacity (full capacity is 49,000 af), up from 4% on 10/1. 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 identified instream flows volumes to benefit Threatened Coho Salmon and other cold water dependent 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 inform its operations plan. Over the past two years, MWCD has had extreme difficulty meeting instream and municipal responsibilities, providing less than 20 days of irrigation to MWCD users. Increased delivery efficiency and resulting dependable instream dedication is a preferred method to conserve water lost to deep percolation and surgically provide it to the Shasta River below Dwinnell Reservoir for instream benefit. 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 improving resiliency for multiple beneficial 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.

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## 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)

Big Springs, Montague and Weed CA

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)

Big Springs, Montague and Weed CA

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)

Canal lining is a result of a settlement agreement with the Karuk Tribe to improve flows in the Shasta River. However, canal lining is not a mitigation.

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

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## 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

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**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
- d) Does the urban water supplier meet the water meter requirements of CWC 525?  
 yes     no
- 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
- 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

## 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: Shasta River
- 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: Shasta River
- c) If Yes, please specify the name of the organization that is the designated monitoring entity: Siskiyou County Flood Control Dist.
- d) If there is no monitoring entity, please indicate whether the project is wholly located in an economically disadvantaged community.
- yes     no

- 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.

MWCD does not have a Stormwater Resource Plan but Dwinnell Reservoir which MWCD operates is located on the Shasta River and MWCD diverts from Parks Creek to storage in Dwinnell Reservoir.

MWCD captures Stormwater that is stored for multiple beneficial purposes to be used later in the year, while also providing sufficient by-pass for instream benefit. The collection of storm water protects the community and infrastructure from flood damage.

- 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