NORTH COAST RESOURCE PARTNERSHIP

A. General Project Information

1. Organization / Project Sponsor Name:
   City of Montague

2. Project Name:
   Water Supply Reliability and Lead Abatement Project

3. Has the organization implemented similar projects in the past? ☒ yes ☐ no

4. If the project sponsor has worked with NCRP in the past, describe the project and outcome.
   The City of Montague applied to the NCRP Proposition 1 Round 1 Grant for the Water Supply Reliability and Abatement Project and was denied.

5. Please describe the qualifications, experience, and capacity of the project team that will be overseeing project implementation.
   The City has managed several recent grant program funds including Prop 1 Round 1 and has staff to continue to support improvements in the watershed. The north coast has many qualified engineering firms with whom the District can contract and who have experience working with the NCRP. Speciality firms will be contracted for the abatement work. As a result, the District can successfully meet project funding constraints, goals, and objectives through project delivery.

6. Is this project part of a larger project or program? If so, what effectiveness monitoring is being conducted and what are the results?
   N/A

7. Project Abstract [500 characters max.]
   The proposed mitigation project, the City of Montague Water Supply Reliability and Lead Abatement Project (Project) will remove and replace the current red lead-linseed oil coated 500,000-gallon water tank, and remove the current red lead-linseed oil coated 30,000-gallon water storage tank and two pressure tanks formerly used in the sand filtration process. The project will address insufficient water storage and the lack of redundancy in the storage system.

8. Project Description [3,000 characters max.]
   One part of Montague Water Supply Reliability and Abatement Project will remove four water tanks (500,000 gallon tank, 30,0000 gallon tank, 2 pressure tanks) and replace the 500,000 water storage tank, which is not currently used due to condition. All four water tanks need to be removed because they are coated in red lead-linseed oil, which poses a health and safety threat to the surrounding population and ecosystem. The 500,000-gallon water storage tank will be removed and replaced to provide the City of Montague and the surrounding area with more water resiliency against the effects climate change induced drought. The 30,000-gallon and

500,000 gallon water storage tanks constructed in 1986 and 1960 respectively and need to be removed because it is currently collapsing, putting the workers safety, depositing lead into the watershed, and riskgin damage to the functioning water system. Two pressure tanks used in the previous sand filtration will also be removed to protect human health and limit the potential for lead pollution into the surrounding environment. The red lead-linseed oil coating makes the cost for removal more expensive for the City and there are limited certified lead contractors. The City is located in a remote rural area and the rising cost of construction materials are both causes for increased project costs.

The first part of the project is the removal of the water storage tanks to eliminate the source of lead pollution. A lead survey will be conducted to confirm the levels of lead present and evaluate the lead hazard. A lead abatement plan will be required as part of the demolition plans. Lead abatement would include the removal of lead paint from all or a portion of the tanks as well as removal of any materials contaminated with lead. The abatement waste would need to be disposed of as hazardous waste, but the clean debris, including materials that lead paint was removed from, can be disposed of as general construction debris.

The second part of the project will be to replace the 500,000-gallon water supply tank with a new steel tank and SCADA. Removal of the current tanks are prioritized to eliminate the source of lead pollution via paint flaking and leaching into the neighboring surface water and ground water supply. Replacing the existing and unusable 500,000-gallon water storage tank would provide a reliable and safe redundancy in the City's drinking water system. A new tank with aeration capabilities would also assist in reducing treatment byproducts such as total trihalomethanes (TTHMs) in the drinking water supply.

The entirety of the benefits from this project would support the Disadvantaged Community (DAC) and of Montague. The City of Montague and the surrounding areas have had several severe droughts and nearby wildfires within the last few years, putting the DAC at risk. This project would increase the climate resiliency of the DAC by providing a more resilient water supply to aid in drought and wildfire events.

9. Specific Project Goals/Objectives

Goal 1: Install a new 500,000 gallon water storage tank [100 characters max.]
Goal 1 Objective: Provide a reliable and safe redundancy in the City's drinking water system for emergencies [200 characters max.]
Goal 1 Objective: Provide additional fire storage for wildfire events that have increased in recurrency due to climate change and the prolonged drought
Goal 1 Objective:
Goal 1 Objective:

Goal 2: Demolish and dispose of four lead coated tanks
Goal 2 Objective: Remove of lead paint from the tank and any materials contaminated with lead from the water system sites
Goal 2 Objective: Dispose the lead waste as hazardous waste

Goal 2 Objective: Eliminating an input of lead pollution, a highly toxic pollutant to most flora and fauna, including salmonid populations.
Goal 2 Objective:

Goal 3:
Goal 3 Objective:
Goal 3 Objective:
Goal 3 Objective:
Goal 3 Objective:

Additional Goals & Objectives (List)

10. **Describe how the project addresses the NCRP Goals and Objectives selected**. [1,000 characters max.]

The project will respect local autonomy and knowledge in all stages of project implementation. It is crucial the project maintains an ongoing framework for inclusive intraregional cooperation to have a successful project. This project will directly serve the DAC by providing a more resilient water supply to support against consequences of drought and wildfire. Additionally public health and safety will be enhanced by the protection of surface and ground water quality by the removal of a source of lead pollution. The enhancement of water quality will also serve the ecology of the area by eliminating an input of lead pollution, a highly toxic pollutant to most flora and fauna, including salmonid populations.

11. **Describe the physical, biological and/or community need for the project**. [1,000 characters max.]

The City of Montague is a rural, economically disadvantaged community that is unable to provide the needed revenue and capital for upgrades to its water system. These needed upgrades cause increased operating costs each year. The water storage system is currently undersized and contains hazardous material within City limits. The City of Montague's proposed hazardous material removal and water tank installation 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 City of Montague, California. The NCRP data map (located at https://northcoastresourcepartnership.org/data/) demonstrates that this area is an "economically disadvantaged area" or DAC.

The proposed project would help address physical vulnerabilities and improvements to the Citys's water storage by providing additional water supply reliability for domestic uses and fire supression.

12. **Describe the financial need for the project**. [1,000 characters max.]

The City of Montague is a disadvantaged community and does not have the funds to pay for this greatly needed water tank or the cost of removing the existing lead contaminated tanks. The City cannot implement this project without aid. Unfortunately, the DAC does not have the financial means to remove/replace the tank on their own. The sooner this happens, the better for the community and the surrounding communities as well.

13. **Describe potential adverse impacts from project implementation and how they will be mitigated.**
    The removal of the four lead-linseed oil coated tanks will be conducted in an organized manner under state hazardous materials rules to protect the safety and well being of the workers and limit any pollution potential into the environment. Although this is a potential adverse impact from the project, removal will be conducted by a certified, experienced contractor. Without the removal of the tanks, the tanks will continue to put the environment at risk.

14. **Will this project mitigate an existing or potential Cease and Desist Order or other regulatory compliance enforcement action?** ☐ yes ☒ no
    If yes, please describe. [500 characters max.]

15. **Does the project address a contaminant listed in AB 1249 (nitrate, arsenic, perchlorate, or hexavalent chromium)?**
    ☐ yes ☒ no
    If yes, provide a description of how the project helps address the contamination. [500 characters max.]

16. **Describe how the project contributes to regional water self-reliance and addresses climate change.** [1,000 characters max.]
    The City of Montague experienced a severe drought in 2014, during which the community was 11 days away from completely running out of drinking water. To avoid running out of water for the DAC, the City used an emergency pipe line to the river to supply the water plant with water. An additional water storage tank would have supplied the water supply resiliency the City needed to avoid having to use the emergency pipeline and use water from the river. Implementation of this project would address and enhance the low regional water quality rating. Below is the current City of Montague's Human Right to Water scoring relative to water quality, accessibility, and affordability indicators.
    HR2W: Water Quality Score (possible range: 0 - 4)
    Water Quality Composite Score: 0.92
    High Potential Exposure Score: 1.00
    Duration of High Potential Exposure Score: 2.00
    City of Montague's Water Accessibility Composite Score: 1.00

Physical Vulnerability to Water Outages Score: 1.00

17. **Does the project increase public safety with regards to flood protection, wildfire hazard risk reduction, increasing firefighting capacity, or in other ways contribute to regional emergency resiliency?**
☒ yes ☐ no
Please explain. [500 characters max.]
The City of Montague is in a drought and has been for the last few years. Having an extra water tank to provide more water supply when water is scarce would help this DAC and possibly leave valuable water in the lake for wildlife protection. The project also protects the public and wildlife from lead exposure

18. **Does the project employ new or innovative technologies or practices, including Decision Support Tools that support the integration of multiple jurisdictions, including, but not limited to, water supply, flood control, land use, and sanitation?** ☐ yes ☒ no
If yes, please describe. [500 characters max.]

19. **Describe the population served by this project, including any economically disadvantaged communities or Tribes that will directly benefit.**
This project will benefit the DAC community of the City of Montague. Within the DAC, about 50% of this population is SDAC. This project will also help surrounding communities like Hornbrook. When it caught on fire a few years ago, the City gave what little water the storage tanks had to fill helicopters and water tenders. Increasing water storage would help all the communities in Siskiyou County in the event of a fire.

20. **Describe local and/or political support for this project.** [500 characters max.]
This project is conducted by the local City of Montague and is supported by the most recent municipal service review.

21. **List all collaborating partners and agencies and nature of collaboration.** [750 characters max.]
City of Montague

22. **Is this project part or a phase of a larger project?** ☐ yes ☒ no
Are there similar efforts being made by other groups? ☐ yes ☒ no
If yes to either, please describe. [500 characters max.]

B. Project Location

1. **Describe the latitude and longitude of the project site.**
   Latitude: 41.731418 Longitude: 122.512509

2. **Site Address (if relevant):**

3. **Does the applicant have legal access rights, easements, or other access capabilities to the property to implement the project?**
   ☒ yes If yes, please describe below
   ☐ no If no, please provide a concise narrative below with a schedule, to obtain necessary access
   ☐ NA If NA, please describe below why physical access to a property is not needed
   Explanation. [500 characters max.]
   The water storage tank locations are owned by the City of Montague, no easements would be required.

4. **Project Location Notes:**
   A figure of the project locations is included in the Technical Attachments.

C. Benefits To Disadvantaged Communities and/or Tribes

1. **Does the project provide direct water-related benefits to a project area comprised of Disadvantaged Communities or Economically Distressed Communities?** If partially, please estimate percentage of project that benefits disadvantaged communities and list the communities.
   ☒ Entirely
   ☐ Partially; estimate the percentage of benefits provided directly to DAC:
   ☐ No
   List the Disadvantaged Community(s)
   City of Montague

2. **Does the project provide direct water-related benefits to a project area comprised of Severely Disadvantaged Communities (SDAC)**? If partially, please estimate percentage of project that benefits disadvantaged communities and list the SDACs.
   ☐ Entirely
   ☒ Partially; estimate percentage of benefits provided directly to SDAC: 50%
   ☐ No
   List the Severely Disadvantaged Community(s)
   City of Montague

3. **Does the project provide direct water-related benefits to a Tribe or Tribes**? If partially, please estimate percentage of project that benefits Tribe(s) and list the Tribes.
   ☐ Entirely
   ☐ Partially; estimate percentage of benefits provided directly to Tribe(s):
   ☒ No
   List the Tribal Community(s)

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

4. **If the project provides benefits to a DAC, EDA or Tribe, explain the water-related need of the DAC, EDA or Tribe and how the project will address the described need.** [750 characters max.]
   The City of Montague has been in a drought for the last few years. Having more water storage provides the DAC with resiliancy against drought events. Additionally, the extra water storage protects the community from wildfire by allowing more water to stay in the nearby lake.
   By removing the lead lindseed oil coated tanks, the source of lead pollution into the communities water supply would be limited. The DAC's health and safety would consequently be enhanced.

5. **Describe the kind of notification, outreach and collaboration that has been completed with the county(ies) and/or Tribes within the proposed project impact area, including the source and receiving watersheds, if applicable.** [500 characters max.]
   The project is orchestrated by the City of Montague with community feedback and approval.

D. Project Benefits & Justification

1. **For each of the Potential Benefits that the project claims, complete the following table to describe an estimate of the benefits expected to result from the proposed project. Provide quantitative benefit amounts for at least the primary and secondary benefits. Provide a qualitative narrative description of expected benefits that cannot be quantified.** *See the NCRP Project Application Instructions for more information and a listing of potential benefits.*

PROJECT BENEFITS TABLE

Benefit Description	Units	Quantitative Amount	Qualitative Description
Water Supply			
Water Storage Tank	Gallons	500,000	Replacement Storage

Benefit Description	Units	Quantitative Amount	Qualitative Description
Water Quality			
Surface Water			removing lead paint
Total Trihalomethanes (TTHMs) in Drinking Water Supply			Reduce TTHMS
Ground Water - lead impact reduction			removing lead paint
Climate Change			
Wild Fire Resiliency			Increase Storage
Drought Resiliency			Increase Storage
Other Ecosystem Service Benefits			
Jobs Created or Maintained			
Tanks Deconstruction			Construction jobs
Tanks Construction			Construction jobs
Other Benefits			
Public Health and Safety			lead paint pollution

2. **Does the proposed project provide physical benefits <u>outside</u> of the North Coast Region?**
   ☐ yes ☒ no
   If yes, describe the impacts to areas outside the North Coast Region. [500 characters max.]

3. **List the impaired water bodies (303d listing) that the project benefits**:
   Little Shasta River

4. Describe how the project benefits salmonids, endangered/threatened species and sensitive habitats.

   The project would protect endangered/threatened species and sensitive habitats by protecting surface water quality from lead pollution. Lead pollution is extrememly toxic to most organisms and by eliminating a huge source of lead pollution, the natural habitat and species within it are more protected.

5. Have alternative methods been considered to achieve the same types and amounts of physical benefits as the proposed project?

   ☒ yes ☐ no

   Please explain. [500 characters max.]

   The most thorough and cost effective method of eliminating the risk of lead contamination is to remove the source of the lead. By removing the lead-coated water tanks, the source of contamination is eliminated.

6. Is the proposed project the lowest cost alternative to achieve the physical benefits?

   ☒ yes ☐ no

   Please explain. [500 characters max.]

   To remove the lead takes safely without contaminating the environment the proposed project was selected as most cost effective for the benefits gained. The no action alternative poses a greater risk to the environment and would be more costly to mitigate i the long term. Due to the existing tank material and age it was determined that tank replacement maintained the needed capacity and resulted in lowest life cycle costs.

7. How will the project be monitored to determine whether it is producing the desired benefits?

   The implementation of the Project will also include connection to the Supervisory Control and Data Acquisition (SCADA) system to monitor the system and provide for automatic control of filling the tanks. In general, level transducers at the tanks will measure water level, and this data will be transmitted to a level controller at the associated pump stations which will turn pumps on and off according to user-configurable setpoints to maintain water level in the tanks between desired high and low levels.

8. Provide a narrative for project technical justification. Include any other information that supports the justification for this project, including how the project can achieve the claimed level of benefits listed below. [3,000 characters max.]

   The removal of the lead-linseed oil coated tanks is necessary to protect human health and safety, the surrounding ecology, and the ground/surface water supply quality. Removal of the tanks is the most cost-effective method of eliminating the potential for lead pollution. The tank removal must occur before noew infrastrucutre can be installed.

The replacement of the existing unuseable 500,000 gallon water storage tank would meet the project's primary benefit and provide a greater storage volume for use with consumption and fire-fighting demands. The project's secondary benefit would be accomplished by decreasing the volume of surface water resources required during times of drought and/or emergency response. Another benefit of the project is protecting and enhancing the surface and ground water quality from lead contamination via tank leaching.

9. List and include any studies, plans, designs or engineering reports completed for the project as a "Technical & Reference Supporting Materials" into one document that includes a Table of Contents and is limited to approximately 50 pages. *Please see the instructions for more information about submitting these documents with the final application.*

10. Project Justification & Technical Basis Notes: Please provide any additional information *not included above* that you think is important.

E. Project Tasks, Budget, And Schedule

1. Projected Project Start Date: 7/1/23
   Anticipated Project End Date: 4/1/25

2. Describe the basis for the costs used to derive the project budget in each budget category. [500 characters max.]
   The basis of costs used to derive the project budget was based on engineering expertice and similar projects. Contractors who work in the lead abatement industtry were contacted for estimates of removal of the four lead painted tanks. The costs assume a portion of the tanks will have lead removed during demolition and the remainder would be dealt with off site and during any materials recycling.

3. Provide a narrative on cost considerations including alternative project costs. [500 characters max.]
   The costs considerations were based on costs of similar projects, the anticipated materials and labor, and hazardous abatement. Hazardous abatement must occur first, followed by the installation of the 500,000-gallon bolted steel water supply tank.

4. List the sources of non-state matching funds, amounts and indicate their status. Proposition 1 requires a minimum cost share of 50% of the total project costs, though a waiver may apply (see Question 6 below).
   The project is not anticipated to receive non-state matching funds.

5. List the sources and amount of State matching funds.
   The project is not anticipated to receive State matching funds.

6. Cost Share Waiver Requested (DAC or EDA)? ☒ yes ☐ no
   Describe what percentage of the proposed project area encompasses a DAC/EDA, how the community meets the definition of a DAC/EDA, and the water-related need of the DAC/EDA that the project addresses. In order to receive a cost share waiver, the applicant must demonstrate that the project will ***directly*** provide benefits that address a water-related need of a DAC/EDA.

   The water supply for the DAC, the City of Montague, is threatened by drought and lead pollution. The implementation of this project would directly benefit the community by providing more water resiliency against drought and wild fire. Additionally, public health and safety would be enhanced by removing such a source of lead pollution into the environment.

7. Is the project budget scalable? ☒ yes ☐ no

8. Describe how a scaled budget would impact the overall project, its expected benefits and state the minimum budget amount that would be viable (see Instructions E.7 for scaled budget examples). [500 characters max.]

   Yes the project is scalable. A larger budget would allow the DAC, the City of Montague, to have a more resilient water supply and and remove the lead coated tanks. The first priority of the project is to remove the water supply tanks that are the source of lead pollution into the nearby surface water and ground water supply. The second pary of the project would be to re-construct a new 500,000 gallon tank. The project can be scaled by 75% to $ 664,225, which is just the lead abatement costs.

9. Major Tasks, Schedule and Budget for Project Solicitation
   Please complete MS Excel table available at https://northcoastresourcepartnership.org/ncrp-proposition-1-irwm-round-2-solicitation/see instructions for the information to be included in this document and for how to submit the required excel document with the application materials.

10. Project Tasks, Budget and Schedule Notes:

    No additional notes.

11. Project Information Notes. Please provide any information that that has not been specifically requested that you feel is important for the NCRP to know about your project.
    No additional notes.

Project Name: City of Montague Water Supply Reliability and Abatement Project
Organization Name: City of Montague

Task #	Major Tasks	Task Description	Major Deliverables	IRWM Task Budget	Non-State Match	Other Match	Total Task Budget	75% Scaled IRWM Budget (Abatement Only)	50% Scaled IRWM Budget	Current Stage of Completion (%)	Start Date	Completion Date
A	**Category (a): Direct Project Administration**											
1	Project Management	In cooperation with the County of Humboldt sign a sub-grantee agreement for work to be completed on this project. Develop invoices with support documentation. Provide audited financial statements and other deliverables as required	Invoices, audited financial statements, project updates, and other deliverables as required	$57,000.00	$0.00	$0.00	$57,000.00	$20,000.00	$0.00	0%	7/1/23	4/1/25
2	Reporting	Develop monthly reports describing work completed, challenges, and strategies for reaching remaining project objectives. Develop Final Report	Quarterly and Final Reports	$15,000.00	$0.00	$0.00	$15,000.00	$7,500.00	$0.00	0%	7/1/23	4/1/25
B	**Category (b): Land Purchase/Easement**											
1	Note Applicable			$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	0%		
C	**Category (c): Planning/Design/Engineering/Environmental Documentation**											
1	Final Design /Plans (Water Supply Tank)	The Final Design task consists of all work necessary to develop construction implementation documents including the final design plans, technical specifications, and opinion of probable construction cost. Topographic survey information at the tank sites will be collected for design as well as a geotechnical reports. The drawings will be updated based on comments received on the 60% drawings.	Topographic Survey, Geotechnical Report, 60% design plans, 60% technical specifications, Final design plans, final technical specifications, opinion of probable costs	$217,500.00	$0.00	$0.00	$217,500.00	$0.00	$0.00	0%	7/1/23	3/1/24
	Final Design /Plans (Hazardous Material Abatement)	Development of a lead abatement plan and tank demolition plan	Final Lead Abatement Plan, Final Tank Demolition Plan	$43,750.00	$0.00	$0.00	$43,750.00	$43,750.00		0%	7/1/23	12/1/23
2	Project Performance Monitoring Plan	Develop Monitoring Plan to include goals and measurable objectives	Final Monitoring Plan	$2,100.00	$0.00	$0.00	$2,100.00	$1,575.00	$0.00	0%	7/1/23	9/1/23
2	Environmental Documentation: CEQA (Water Supply Tank)	Complete environmental review pursuant to CEQA. Prepare all necessary environmental documentation. Anticipate document is a categorical exemption. It is assumed no onsite surveys are required.	Environmental Information Form approved by DWR; Stamped Notice of Exemption	$4,900.00	$0.00	$0.00	$4,900.00	$0.00	$0.00	0%	7/1/23	12/1/23
	Environmental Documentation: CEQA (Hazardous Material Abatement)	Complete environmental review pursuant to CEQA. Prepare all necessary environmental documentation. Anticipate document is a categorical exemption. Mitigation is not anticpated as lead regulations will be followed.	Environmental Information Form approved by DWR; Stamped Notice of Exemption	$4,900.00	$0.00	$0.00	$4,900.00	$4,900.00	$0.00	0%	7/1/23	12/1/23
3	Environmental Documentation: NEPA (if required)	Not Applicaple		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	0%	-	-
4	Permit Development [Geotechnical Permit Fees]	Geotechnical boring permit fees for water supply tank site	Boring Permit	$1,200.00	$0.00	$0.00	$1,200.00	$0.00	$0.00		10/1/23	3/1/24
5	Permit Development [PLEASE COMPLETE]	Not Applicaple		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	0%	-	-
D	**Category (d): Construction/Implementation**											
1	Contract Services (Water Supply Tank)	The project be publicly let out for bid, and a construction contractor will be selected per a bid process in conformance with State and Federal requirements. Bid period services include advertising bids, responding to contractor questions and comments, conducting site visits, conducting the bid opening, reviewing contractor bids, and preparing the letter of recommendation for award, once all the Contractor certifications and licenses have been checked.	Bid Documents; Proof of Advertisement; Award of Contract; Notice to Proceed	$17,500.00	$0.00	$0.00	$17,500.00	$0.00	$0.00	0%	4/1/24	6/1/24
2	Contract Services (Hazardous Material Abatement)	The project be publicly let out for bid, and a construction contractor will be selected per a bid process in conformance with State and Federal requirements. Bid period services include advertising bids, responding to contractor questions and comments, conducting site visits, conducting the bid opening, reviewing contractor bids, and preparing the letter of recommendation for award, once all the Contractor certifications and licenses have been checked.	Bid Documents; Proof of Advertisement; Award of Contract; Notice to Proceed	$17,500.00	$0.00	$0.00	$17,500.00	$17,500.00	$0.00	0%	4/1/24	6/1/24
3	Construction Administration (Water Supply Tank)	The Construction Management Services task includes all support services necessary to manage the implementation of the project. Construction will be overseen by the selected engineering firm, and they will be responsible for ensuring compliance with contract documents, measuring quantities, approving pay requests, responding to requests for information, processing contract change orders, and documenting the construction for the final reports.	Construction Management Logs; Completed construction administration tasks documented in monthly progress reports; DWR Certificate of Project Completion	$140,000.00	$0.00	$0.00	$140,000.00	$0.00	$0.00	0%	6/1/24	11/1/24

Project Name: City of Montague Water Supply Reliability and Abatement Project
Organization Name: City of Montague

Task #	Major Tasks	Task Description	Major Deliverables	IRWM Task Budget	Non-State Match	Other Match	Total Task Budget	75% Scaled IRWM Budget (Abatement Only)	50% Scaled IRWM Budget	Current Stage of Completion (%)	Start Date	Completion Date
4	Construction Administration (Hazardous Material Abatement)	The Construction Management Services task includes all support services necessary to manage the implementation of the Hazardous Material Abatement. Construction will be overseen by the selected engineering firm, and they will be responsible for ensuring compliance with contract documents, measuring quantities, approving pay requests, responding to requests for information, processing contract change orders, and documenting the construction for the final reports.	Construction Management Logs; Completed construction administration tasks documented in monthly progress reports; DWR Certificate of Project Completion	$30,000.00	$0.00	$0.00	$30,000.00	$30,000.00	$0.00	0%	6/1/24	11/1/24
5	Mobilization and Site Preparation (Hazardous Material Abatement)	The hazardous material abatement includes contractor mobilization to the site including set up of temporary signage, aquiring equipment, and traffic control planning.		$30,000.00	$0.00	$0.00	$30,000.00	$30,000.00	$0.00	0%	6/1/24	7/1/24
6	Mobilization and Site Preparation (Water SupplyTank)	The water supply tank construction includes contractor mobilization to the site including set up of temporary signage, aquiring equipment, and traffic control planning.		$100,500.00	$0.00	$0.00	$100,500.00	$0.00	$0.00	0%	6/1/24	8/1/24
7	Project Construction/Implementation: (Water Supply Tank)	This task is for construction of the project by a licensed contractor. The proposed project features the construction and installation of a 500,000-gallon tank built within the same tank site boundaries as the existing tanks. The proposed project will also include the installation of water storage tank level monitoring and control equipment, pump station monitoring and control equipment, telemetry equipment, system alarms, and associated central control equipment.		$1,525,000.00	$0.00	$0.00	$1,525,000.00	$0.00	$0.00	0%	8/1/24	10/31/24
8	Project Construction/Implementation: (Hazardous Material Abatement)	Demolition: means and methods needed to tear down the steel tanks would be 2- 3 excavators one with a steel sheer. The sheer will be able to separate the tanks. The other two can process the steel and move to piles for loading and transport to a recycling facility. Disposal: Transport to licenced recycling facility or hazardous waste facility		$500,000.00	$0.00	$0.00	$500,000.00	$500,000.00	$0.00	0%	7/1/24	9/1/24
11	Project Signage			$2,000.00	$0.00	$0.00	$2,000.00	$2,000.00	$0.00	0%	6/1/24	7/1/24
12	Project Close Out, Inspection & Demobilization (Water Supply Tank)	Inspect project components and establish that work is complete. Verify that all project components have been installed and are functioning as specified will be conducted as part of construction inspection and project closeout. Conduct project completion photo monitoring. Prepare record drawings.	As-Built and Record Drawings; Project completion site photos	$13,125.00	$0.00	$0.00	$13,125.00	$0.00	$0.00	0%	11/1/24	12/31/24
13	Project Close Out, Inspection & Demobilization (Hazardous Material Abatement)	Inspect project components and establish that work is complete. Verify that all project components have been removed and project closeout completed. Conduct project completion photo monitoring.	Project completion site photos	$4,900.00	$0.00	$0.00	$4,900.00	$4,900.00	$0.00	0%	8/1/24	10/1/24
14	Project Performance Monitoring	The performance of the project will be monitored in accordance to the Monitoring Plan using the following measurement tools and methods: Design plans will be reviewed 4 times at 30%, 60% 90% and final design stages. The target will be to ensure reliable water storage protected agains possible high magnitude earthquakes, lighting strikes, electrical failure, wildfire, and unlawfule instrusion to serve the City's residents. The target will also be to safely and responsibly remove and dispose all hazardous material.		$2,100.00	$0.00	$0.00	$2,100.00	$2,100.00	$0.00	0%	10/1/24	3/1/25
	Total North Coast Resource Partnership IRWM Grant Request			**$2,728,975.00**	**$0.00**	**$0.00**	**$2,728,975.00**	**$664,225.00**	**$0.00**			
	Percentage of Total Project Cost			**100.00%**	**0.00%**	**0.00%**	**100.00%**	**24.34%**	**0.00%**			

BUDGET DETAIL

Row (a) Direct Project Administration Costs					
Project Management Type	**Personnel by Discipline**	**Number of Hours**	**Hourly Wage**	**% of Cost ***	**Total Admin Cost**
Labor	Engineer	300	$190		$57,000
Labor	Engineer	79	$190		$15,000
Materials					$0
Equipment					$0
Total					**$72,000**
*** What is the percentage based on (including total amounts)?**		**n/a**			
*** How was the percentage of cost determined?**		**n/a**			

Row (b) Land Purchase/Easement

Row (c) Planning/Design/Engineering & Environmental Documentation					
Personnel (Discipline)	**Major Task Name**	**Number of Hours**	**Hourly Wage**	**Total Cost**	
Engineering Consultant	Final Design Plans (30% Design; Water Supply Tank)	250	$ 175	$43,750	
Engineering Consultant	Final Design Plans (60% Design; Water Supply Tank)	250	$ 175	$43,750	
Engineering Consultant	Final Design Plans (100% Design; Water Supply Tank)	400	$ 175	$70,000	
Sub-Consultant (2 Person Team)	Final Design Plans (Geotechnical Report; Water Supply Tank)	75	$ 600	$45,000	
Sub-Consultant	Final Design Plans (Topographic Survey; Water Supply Tank)	75	$ 200	$15,000	
Engineering Consultant	Final Plans (Hazardous Material Abatement)	250	$ 175	$43,750	
Engineering Consultant	Project Performance Monitoring Plan	12	$ 175	$2,100	
Engineering Consultant	Environmental Documentation: CEQA (Water Supply Tank)	28	$ 175	$4,900	
Engineering Consultant	Environmental Documentation: CEQA (Hazadous Material Abatement)	28	$ 175	$4,900	
Sub-Consultant	Permit Development (Geotechnical Permit Fees)	1	$ 1,200	$1,200	
Total				**$274,350**	

Row (d) Construction/Implementation				
Personnel (Discipline)	**Work Task and Sub-Task (from Work Task Table)**	**Number of Hours**	**Hourly Wage**	**Total Cost**
Engineering Consultant	Contract Services (Water Supply Tank)	100	$ 175	$17,500
Engineering Consultant	Contract Services (Hazardous Material Abatement)	100	$ 175	$17,500
Engineering Consultant	Construction Administration (Water Supply Tank)	700	$200	$140,000
Engineering Consultant	Construction Administration (Hazardous Material Abatement)	150	$200	$30,000
Contractor and Engineeing Consultant	Project Close Out, Inspection & Demobilization (Water Supply Tank)	75	$ 175	$13,125
Contractor and Engineeing Consultant	Project Close Out, Inspection & Demobilization (Hazardous Material Abatement)	28	$ 175	$4,900
Engineering Consultant	Project Performance Monitoring	12	$ 175	$2,100
Materials and Equipment	**Work Task and Sub-Task (from Work Task Table)**	**Number of Units**	**Unit Cost**	
Contractor Mobilization and Demobilization (Water SupplyTank)	Mobilization and Site Preparation (Water SupplyTank)	30	$ 3,350	$100,500
Erosion and Sediment Control (Water SupplyTank)	Project Construction/Implementation: (Water Supply Tank)	1	$ 40,000	$40,000
Site piping and appurtenances (Water Supply Tank)	Project Construction/Implementation: (Water Supply Tank)	1	$ 200,000	$200,000
Foundation Installation for 500,000 gallon Tank	Project Construction/Implementation: (Water Supply Tank)	1	$ 80,000	$80,000
500,000 gallon Tank Erection, including cathodic protection system	Project Construction/Implementation: (Water Supply Tank)	1	$ 1,125,000	$1,125,000
500,000 Gallon Tank Disinfection and system pressure testing	Project Construction/Implementation: (Water Supply Tank)	1	$ 30,000	$30,000
SCADA Installation (Water SupplyTank)	Project Construction/Implementation: (Water Supply Tank)	1	$ 50,000	$50,000
Project Signage	Project Signage	1	$ 2,000	$2,000
Contractor Mobilization and Demobilization (Hazardous Material Abatement)	Mobilization and Site Preparation (Hazardous Material Abatement)	15	$ 2,000	$30,000
Hazardous Material Demolition	Project Construction/Implementation: (Hazardous Material Abatement)	1	$ 350,000	$350,000
Hazardous Material Disposal	Project Construction/Implementation: (Hazardous Material Abatement)	1	$ 150,000	$150,000
Total				**$2,382,625**

SUPPLEMENTAL COST BREAKDOWN

Item Name	Unit Quantity	Unit of Measure	Unit Cost	Cost Estimate Total
Construction				
Sub-Task 7.1 - Contractor Mobilization and Demobilization	30	DAY	$ 4,200	$ 126,000
Sub-Task 7.2 - Erosion and Sediment Control	1	EA	$ 40,000	$ 40,000
Sub-Task 7.3 - Site piping and appurtenances	1	EA	$ 200,000	$ 200,000
Sub-Task 7.4 - Current 500,000 gallon Tank Deconstruction	1	EA	$ 40,000	$ 40,000
Sub-Task 7.4 - Hazardous Material Demolition				
Sub-Task 7.4 - Hazardous Material Disposal				
Sub-Task 7.5 - Foundation Installation for 500,000 gallon Tank	1	EA	$ 80,000	$ 80,000
Sub-Task 7.6 - 500,000 gallon Tank Erection, including cathodic protection system	1	EA	$ 1,125,000	$ 1,125,000
Sub-Task 7.7 - 500,000 Gallon Tank Disinfection and system pressure testing	1	EA	$ 30,000	$ 30,000
Sub-Task 7.20 - SCADA Installation	1	EA	$ 150,000	$ 150,000
			Total	$ 1,791,000

NORTH COAST RESOURCE PARTNERSHIP

ORGANIZATION INFORMATION

1. Project Name:
   Water Supply Reliability and Abatement Project

2. Applicant Organization Name:
   City of Montague

3. Contact Name/Title
   Name: David Dunn
   Title: Public Works Supervisor
   Email: publicworks@cityofmontagueca.com
   Phone Number (include area code): (530) 459-3030

4. Organization Address (City, County, State, Zip Code):
   230 South 13th St. Montague, CA 96064 Siskiyou

5. Organization Type
   - [x] Public agency
   - [ ] 501(c)(3) Non-profit organization
   - [ ] Public utility
   - [ ] Federally recognized Indian Tribe
   - [ ] California State Indian Tribe listed on the Native American Heritage Commission's California Tribal Consultation List
   - [ ] Mutual water company
   - [ ] Other:

6. Authorized Representative (if different from the contact's name)
   Name: David Dunn
   Title: Public Works Supervisor
   Email: publicworks@cityofmontagueca.com
   Phone Number (include area code): (530) 459-3030

7. List all projects the organization is submitting to the NCRP for this Solicitation in order of priority.
   Water Supply Reliability and Abatement Project

8. Organization Information Notes:

NORTH COAST RESOURCE PARTNERSHIP

ELIGIBILITY

1. North Coast Resource Partnership Goals and Objectives

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

2. Does the project have a minimum 15-year useful life?
   a) ☒ yes ☐ no
   b) If yes, will the organization be able to provide compliance documentation outlined in the instructions should the project be selected as a Priority Project?
      ☒ yes ☐ no

3. Other Eligibility Requirements and Documentation

CALIFORNIA GROUNDWATER MANAGEMENT SUSTAINABILITY COMPLIANCE

a) Does the project directly affect groundwater levels or quality?
   ☐ yes ☒ no
b) If yes, will the organization be able to provide compliance documentation outlined in the instructions including a Groundwater Sustainability Agency letter of support, to include in the NCRP Regional Project Application should the project be selected as a Priority Project?
   ☐ yes ☐ no

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 and CASGEM priority:
c) If yes, please specify the name of the organization that is the designated monitoring entity:
d) If yes, please specify whether the local Groundwater Sustainability Agency has endorsed the project:

URBAN WATER MANAGEMENT PLAN

a) Is the organization required to file an Urban Water Management Plan (UWMP)?
   ☐ yes ☒ no
b) If yes, has DWR verified the current 2020 UWMP?
   ☐ yes ☐ no
c) If the 2020 UWMP has not been verified by DWR, explain and provide anticipated date for verification:
d) Has DWR verified a water loss audit report in accordance with SB 555 as submitted by the urban water supplier?
   ☐ yes ☐ no
e) Does the urban water supplier meet the water meter requirements of CWC 525?
   ☐ yes ☐ no
f) Does the urban water supplier meet the State Water Resources Control Board's Water Conservation and Production Reporting requirement?
   ☐ yes ☐ no

g) If yes, will the organization be able to provide compliance documentation outlined in the instructions, to include in the NCRP Regional Project Application should the project be selected as a Priority Project?
☐ yes ☐ no

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, will the organization be able to provide compliance documentation outlined in the instructions, to include in the NCRP Regional Project Application should the project be selected as a Priority Project?
☐ yes ☐ no

SURFACE WATER DIVERSION REPORTS

a) Is the organization required to file State Water Resources Control Board (SWRCB) annual surface water diversion reports per the requirements in CWC Part 5.1?
☐ yes ☒ no

b) If yes, will the organization be able to provide compliance documentation outlined in the instructions, to include in the NCRP Regional Project Application should the project be selected as a Priority Project?
☐ yes ☐ no

STORM WATER MANAGEMENT PLAN

a) Is the project a stormwater and/or dry weather runoff capture project?
☐ yes ☒ no

b) If yes, does the project benefit a Disadvantaged Community with a population of 20,000 or less?
☐ yes ☐ no

c) If this is a stormwater/dry weather runoff project but does not benefit a small DAC population, please provide documentation that the project has been included in a Stormwater Resource Plan that has been incorporated into the NCRP IRWM Plan:

d) If no, will the organization be able to provide documentation that the project is included in a Stormwater Resource Plan that has been incorporated into the NCRP IRWM Plan, should the project be selected as a Priority Project?
☐ yes ☐ no

4. Eligible Project Type under 2022 IRWM Grant Solicitation
   - ☐ Water reuse and recycling for non-potable reuse and direct and indirect potable reuse
   - ☒ Water-use efficiency and water conservation
   - ☒ Local and regional surface and underground water storage, including groundwater aquifer cleanup or recharge projects
   - ☐ Regional water conveyance facilities that improve integration of separate water systems
   - ☒ Watershed protection, restoration, and management projects, including projects that reduce the risk of wildfire or improve water supply reliability
   - ☐ Stormwater resource management projects to reduce, manage, treat, or capture rainwater or stormwater
   - ☐ Stormwater resource management projects that provide multiple benefits such as water quality, water supply, flood control, or open space
   - ☐ Decision support tools that evaluate the benefits and costs of multi-benefit stormwater projects
   - ☐ Stormwater resource management projects to implement a stormwater resource plan
   - ☐ Conjunctive use of surface and groundwater storage facilities
   - ☒ Decision support tools to model regional water management strategies to account for climate change and other changes in regional demand and supply projections
   - ☒ Improvement of water quality, including drinking water treatment and distribution, groundwater and aquifer remediation, matching water quality to water use, wastewater treatment, water pollution prevention, and management of urban and agricultural runoff
   - ☐ Regional projects or programs as defined by the IRWM Planning Act (Water Code §10537)
   - ☐ Other:

5. Describe how the project provides a benefit that meets at least one of the Statewide Priorities as defined in DWR's Final 2022 Guidelines (see page 7) and Tribal priorities as defined by the NCRP?

   The project will meet the Climate Resilience priority by advancing and expanding conjunctive management of water supply storage. The increase in storage will supply the area with additional water to fight drought-driven wildfires in the area. The Drought Preparedness priority will be met by creating a more sustainable and resilient water supply in the event of droughts. The project will meet priority number 5 through the City's collaboration with water agencies and local irrigation districts.

NORTH COAST RESOURCE PARTNERSHIP

CERTIFICATION OF AUTHORITY

By signing below, the Authorized Representative executing the certificate on behalf of the Project Sponsor affirmatively represents that s/he has the requisite legal authority to do so on behalf of the Project Sponsor. The Authorized Representative executing this proposal on behalf of the project sponsor understands that the NCRP is relying on this representation in receiving and considering this proposal. The person signing below hereby acknowledges that s/he has read the entire NCRP 2022 Project Review and Selection Process Guidelines and the NCRP 2022 Proposition 1 IRWM Round 2 Project Application & Instructions documents and has complied with all requirements listed therein.

Official Authorized to Sign for Proposal

Signature

11-4-22

Date

Water Supply Reliability and Abatement Project

City of Montague, California

North Coast Resource Partnership Proposition 1 Round 2

Technical Attachments

Table of Contents

1. Attachment A: Project Location Map

Attachment A includes a map of the project location for the City of Montague Water Supply Reliability and Abatement Project. The map delineates the relevant water storage tanks for the project.

Water Supply Reliability and Abatement Project Location
Legend
Existing 1mil gallon tank
Montague Sewer Plant
Two pressure tanks to be removed
Ridgeview Dr
Montague Sewer Plant
Google Earth
400 ft
N