



A. General Project Information

1. **Organization / Project Sponsor Name:**
Orick Community Services District (Orick CSD)
2. **Project Name:**
Orick Water Meter Replacement 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 Orick CSD previously worked with the NCRP to develop a demonstration project exploring the feasibility of installing a cluster wastewater treatment system in Orick. The project was completed successfully and the data generated is currently being used by OCSD in the planning of a community wastewater system.
5. **Please describe the qualifications, experience, and capacity of the project team that will be overseeing project implementation.**
The Orick CSD will solicit and hire a qualified consultant to provide project management, environmental compliance, project design, and project oversight. A licensed contractor will be contracted to provide project implementation. Beyond these commitments, the district will undergo a public procurement process for both services; the contract for project design, project management, environmental compliance, and project oversight will be awarded based on the qualifications of the responding firms.
6. **Is this project part of a larger project or program? If so, what effectiveness monitoring is being conducted and what are the results?**
This project is not a part of a larger project.
7. **Project Abstract** [500 characters max.]
The Orick CSD will replace all its 142 water meters, meter boxes, and curb stops in the district with smart water meters, new boxes, and new curb stops. Major components of the project will include planning and design, community outreach and notification, bidding and implementation, and evaluation. The goals of the project are to reduce water use and water loss due to leaks or breaks.
8. **Project Description** [3,000 characters max.]
This project will replace 142 water meters, meter boxes, and curb stops within in the Orick CSD with smart water meters, new curb stops, and new meter boxes. The current water meters have exceeded their useful life of 40 years.



Orick is a census-designated place situated along Redwood Creek in Humboldt County, California. Orick is the northern most coastal community in Humboldt County and is accessed via Highway 101. It is located 43 miles north of Eureka.

Orick has a 2020 population of 322 residents according to the State of California demographer. One hundred percent of Orick has been designated as Severely Economically Disadvantaged and an Economically Distressed Area. The District also provides water services to the Redwood National Park Visitors' Center.

Water service began in 1976 and is maintained by the Orick CSD over about 2.3 square miles. A municipal service review of the district was previously conducted in 2011 when wastewater service powers were activated. An update only discussed the district's power to provide fire protection services and stated that other services provided by Orick CSD, notably water and wastewater (inactive), will be addressed separately in a future MSR. Orick's water system is aged and in need of investment. Recent data indicates metered water use of approximately 47.05% of total pumped water, indicating significant leaks which are not being captured by existing, older meters. Major components of the project will include planning and design, community outreach, bidding and implementation, and evaluation. The goals of the project are to reduce water use and water loss due to leaks.

The Orick CSD will solicit and hire a qualified consultant or consultant team to provide project management, environmental compliance, project design, and project oversight. A qualified, licensed contractor will be solicited and contracted to provide project implementation. Beyond these commitments, the district will undergo a public procurement process for both services; the contract for project design, project management, environmental compliance, and project oversight will be awarded based on the qualifications of the responding firms.

The district will use RVS software to interact with the meters. The meter manufacturers the district has looked at can integrate with the RVS system so staff will not need to learn a brand-new software interface.

Water conservation is more important than ever in the face of ongoing drought and climate change. With an upgrade to smart water meters with remote access, Orick will be able to identify suspected leaks or excessive usage in a timely manner and notify customers, rather than wait until the next manual meter reading cycle. Minimizing water loss benefits not only the business and residents within the Orick CSD but also the surrounding community and local environment. Additionally, updating the failing water meters to new smart meters to ensure water availability for all.

9. Specific Project Goals/Objectives



Goal 1: To reduce water usage and water loss due to leaks or breaks in the Orick CSD. [100 characters max.]

Goal 1 Objective: Hire a consultant or consultant team to plan, design, manage, and evaluate the project. [200 characters max.]

Goal 1 Objective: Hire a contractor to implement the project.

Goal 1 Objective: Replace 142 existing water meters with 142 smart water meters.

Goal 1 Objective: Evaluate water use reduction and change in water loss.

Goal 2:

Goal 2 Objective:

Goal 2 Objective:

Goal 2 Objective:

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.]

This project meets objectives 4, 8 and 11 of the NCRP Goals and Objectives. Objective 4 is met because Orick is identified as being in a 100% Severely Economically Disadvantaged Community and living in a 100% Economically Distressed Area and the project will improve the community's water infrastructure system. Objective 8 is met because it ensures water supply reliability and quality for municipal and domestic uses while minimizing impacts to sensitive resources. Objective 11 is met because the project addresses the climate change effects, impacts, and vulnerabilities of drought by reducing water use and loss due to leaks or breaks.

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

On Oct. 19, 2021, Governor Gavin Newsom issued a proclamation extending the drought emergency to include all 58 counties. Climate change has fundamentally altered California's hydrologic system – intensifying extreme weather and leading to longer, drier periods. California's Water Year 2022 ended on Sept. 30 following a year featuring continued extreme drought with historically dry months and a record-shattering heatwave. A growing body of evidence is starting to show that our current drought is an extension of the 2012-2016 drought, interrupted by just a few wet years. (California Water Watch)



This project addresses the need to save water. Replacing existing water meters with smart water meters will allow residents and the Orick CSD to better monitor water use as well as water loss caused by leaks or breaks.

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

The Orick CSD has a limited ratepayer base and ability to generate revenue. Residents served by the Orick CSD are identified as being in a 100% Severely Economically Disadvantaged Community and living in a 100% Economically Distressed Area. It is unlikely that residents would be able to afford a rate increase that would cover costs associated with this project and other planned capital improvements. Supplementing District resources with grant funds will allow this project to be completed much more rapidly and prevent the District from debt financing the project. Because of the already limited budget, the district does not have any staff who could plan, design, implement, and evaluate this project. The district is limited to a General Manager and one other staff position. The Orick CSD is requesting a waiver to the match requested for these grant funds due to the economically disadvantaged status.

13. Describe potential adverse impacts from project implementation and how they will be mitigated.

There are no potential adverse impacts with this project. Any water shutoffs will be temporary and limited to a few hours, and all work to install new meters and boxes will be limited to the previously-disturbed location of the existing meter and box. All implementation activities will consist of removing the existing box and meter and replacing both in their current locations with no new ground disturbance.

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.]

This project addresses the impacts of drought caused by climate change. On Oct. 19, 2021, Governor Gavin Newsom issued a proclamation extending the drought emergency to include all 58 counties, including Humboldt County. A growing body of evidence is starting to show that our



current drought is an extension of the 2012-2016 drought, interrupted by just a few wet years. (California Water Watch)

Long term drought requires that communities save as much water as possible. This project to replace 142 existing water meters with smart waters will improve the ability of residents and the Orick CSD to reduce water use as well as water loss caused by leaks or breaks.

This project will also improve the community's water self-reliance through improved water use efficiency. Smart water meters will improve residents and Orick CSD's ability to monitor and reduce water use as well as water loss caused by leaks or breaks, while also saving staff time for the District when reading meters for billing

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.]

Because this project will allow the community to better monitor and reduce water use, more water will be available to fight wildfires.

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.]

The development of smart water meter technology began in the 2000s. Smart meters send wireless radio signals in real time so residents and utilities can better track water use, making it easier to hit conservation targets and detect leaks. Smart water meters reduce utility labor costs. With wireless signals sent from meters directly, workers no longer need to manually read meters. These represent the best available technology for this project.

19. Describe the population served by this project, including any economically disadvantaged communities or Tribes that will directly benefit.

This project provides direct water-related benefits to an economically disadvantaged community and area. Using the NCRP's mapping data tool, residents served by the Orick CSD are identified as being in a 100% Severely Economically Disadvantaged Community and living in a 100% Economically Distressed Area. Also, the Yurok Tribe owns and operates tribal businesses in Orick as well as owning several houses for tribal residents. These tribally-owned buildings will all receive smart water meters thro

20. Describe local and/or political support for this project. [500 characters max.]



- The Orick CSD has received letters of support for this project from:
 - Humboldt County 5th District Supervisor, Steve Madrone
 - Redwood National Park, Superintendent Steven Mietz
 - Orick School District
 - California Trout

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

This project will be completed by Orick CSD and its selected consultants and contractors without the need for collaborative partnerships, due to the straightforward nature of the project. An encroachment permit from the California Department of Transportation will be secured for meters along Highway 101, but CalTrans is not considered a partner or collaborating agency.

- 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: 41.286848

Longitude: -124.059343

2. Site Address (if relevant):

The project address will be the Orick CSD building at 101 Swan Rd., Orick, CA 95555

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 Orick CSD has the legal access to all the 142 properties that will receive the new smart water meters, as the meters are district-owned infrastructure existing either within the public right of way or an access easement. The District will secure an encroachment permit from CalTrans for the meters located along the Highway 101 frontage.



4. Project Location Notes:

Redwood Creek is the major watershed for this project's location. Orick and the narrow strip of surrounding farmland are the only significant development in the entire basin. The river is free flowing and has no dams, only a few agricultural diversions in the last three miles above the mouth. The river provides recreation and agricultural supply for the community of Orick.

Redwood National and State Parks (RNSP) are in the lower third of the Redwood Creek basin. The enabling legislation of Redwood National Park identifies "the primeval coastal redwood forests and the streams and seashores with which they are associated (Public Law 90-545) as the significant resources to preserve. RNSP, a World Heritage Site and an international biosphere reserve, contains 41,000 acres of ancient coast redwood forest as well as the Little Lost Man Creek Research Natural Area.

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)

This project provides direct water-related benefits to an economically disadvantaged area, the community of Orick. Using the NCRP's mapping data tool, 100 percent of residents served by the Orick CSD are identified as living in a 100% Economically Distressed Community. Through this project, the community will benefit by improving their ability to monitor and reduce water use as well as improving the ability to notice water loss due to leaks or breaks. As well, reducing household and business water use will result in more water being available for fighting wildfires increasingly caused by climate change.

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:
☐ No

List the Severely Disadvantaged Community(s)

This project provides direct water-related benefits to an economically disadvantaged community and area, the community of Orick. Using the NCRP's mapping data tool, 100 percent of residents served by the Orick CSD are identified as living in a Severely Economically



Disadvantaged community. Through this project, the community will benefit by improving their ability to monitor and reduce water use as well as improving the ability to notice water loss due to leaks or breaks. As well, reducing household and business water use will result in more water being available for fighting wildfires increasingly caused by climate change.

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): 5%

☐ No

List the Tribal Community(s)

The Yurok Tribe owns and operates tribal businesses in Orick as well as owning several houses for tribal residents. These tribal buildings will all receive smart water meters through this project. OCSD does not yet have a letter of support from the Yurok Tribe or Yurok Indian Housing Authority for the project.

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.]

Residents of Orick, CA are classified as 100 percent SDAC and EDA. They and Yurok tribal members will benefit from this project by improving their ability to monitor and reduce water use as well as improving the ability to notice water loss due to leaks or breaks. As well, reducing household and business water use will result in more water being available for fighting wildfires increasingly caused by climate change.

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.]

During project implementation, advance written notice will be provided to residents that will be affected by the smart water meter installation project and ongoing written notices will be provided related to any necessary water outages or other special activities during the implementation period. Given the straightforward nature of the project, no pre-project public outreach phase has been undertaken.

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			
Improved water supply reliability	4.25	Acre-feet	Prevented water loss
Improved water management	142	households	Water use data impr.
Water Quality			
Climate Change			
Other Ecosystem Service Benefits			
Jobs Created or Maintained			
Other Benefits			

2. Does the proposed project provide physical benefits outside 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:

This project will provide benefit to the Redwood Creek watershed by way of improving water use efficiency. Redwood Creek is impaired for sediment, temperature, and aluminum within the entire watershed.

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

Redwood Creek provides wildlife habitat for preservation of rare and endangered species including cold freshwater habitat for fish migration and spawning. This project could provide minor benefits to salmonids within the Redwood Creek watershed, which contains critical habitat for steelhead and coho salmon, by improving water use efficiency. By improving water use efficiency and reducing water loss from leaks and breaks, more water may be available to support salmonids. However, current data on potential surface water/groundwater interactions within the Redwood Creek Basin is not available.

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.]

Another method that has been considered is to replace the current water meters with the same type. However, this method would not provide the same type and amount of physical benefits as the proposed project. Water use efficiency and water loss monitoring would not be available using this method, and no District staff time would be saved in the meter reading process.

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

☒ yes ☐ no

Please explain. [500 characters max.]

Replacing the current water meters with the same type would be the least cost alternative only in the short term. The benefits to installing smart water meters would lower costs continually throughout the life of the smart water meters through reduced staff time for meter reading.

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

The project will be monitored by the Orick CSD. Orick CSD will track metered water usage compared to total water production to determine if the new meters improve leak detection.



Orick CSD staff's time to check the water meters will be reduced because they will be able to read the water meters from their vehicles using radio wave monitors, rather than needing to walk to the inground old meters and lift their lids to manually record water usage. Orick CSD will also monitor staff time spent on meter reading and compare to an estimated pre-project baseline.

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.]
 - Installing smart water meters is a proven method for a) upgrading end-of-life water meters installed during the 1970s and 1980s, b) improving leak detection and water conservation, and c) reducing staff time needed to read meters and document monthly water use. The San Jose Water Company ran a pilot project in San Jose's Willow Glen neighborhood and found homes with smart water meters cut water use 7% on average, and the duration of leaks fell 38%. Some water experts say that as climate change continues to heat up the already arid West, every city will have smart water meters, which also can detect large leaks in distribution pipes and, in some cases, more easily locate people who are watering lawns over the limited number of days in droughts. While installation of new water meters by themselves will not influence customer behavior directly, the ability to adequately track water use, notify customers of potential leaks or overuse, and the data generated by improved meters will improve the District's ability to work with customers to reduce water use or repair water leaks.
 - Given that the District is already observing a "loss" of almost 50% of pumped water, likely due to unidentified water leaks, installing smart meters to improve water use tracking is likely to result in identification of some leaks on the customer side. Currently, several meters within the District have likely lost their sensitivity and no longer can register a small, continuous water leak on the customer side of the meter. District staff currently estimate that there could be as many as 40-50 (or ~28-35% of total connections) small leaks within the system which are not being registered by the District's current meters. For this reason, installing new meters with improved sensitivity is likely to yield significant water savings within a few months of installation, as customers could be informed of leaks through both District tracking as well as increased water bills due to previously unreported leaks now being tracked. In calendar year 2021, the District pumped approximately 45.17 acre-feet of water to serve the community, and saw metered usage of approximately 23.92 acre-feet, for a loss of approximately 21.25 acre-feet. The District has conservatively estimated that 20% of this water loss could be mitigated through updating water meters and the improved water use tracking available through the new meters, resulting in proposed savings of 4.25 acre-feet claimed as project benefits. Due to the uncertainty regarding the location of system leaks, this number is an estimate.



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: 5/31/2024

2. Describe the basis for the costs used to derive the project budget in each budget category. [500 characters max.]

The project budget was derived from a) quotes from vendors providing water meters which meet the District’s needs, b) pricing information available online for non-specialty items such as meter boxes, and c) estimates from a local engineering consulting firm with experience designing and implementing water infrastructure projects in the region. Costs have also been escalated slightly to assume project implementation in Spring 2024.

3. Provide a narrative on cost considerations including alternative project costs. [500 characters max.]

The overall project cost estimate is \$1,675.70 per meter. Because new meter boxes and curb stops are included, this cost is in line with similar projects in the region. The City of Fort Bragg is currently replacing over 2,900 meters in their existing boxes at an estimated cost of \$998 per meter. While costs could be reduced by selecting an “non-smart” meter, or by omitting meter boxes and curb stops from the project, doing so would reduce the benefits and limit project utility for the District.

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).

No non-state matching funds are proposed for this project.

5. List the sources and amount of State matching funds.
No state matching funds are proposed for this project.

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.

Per the data mapping tool provided by NCRP, the community of Orick is entirely categorized as a severely disadvantaged community (SDAC) based on community income data. This project will provide direct water-related benefits to the community of Orick by improving water use efficiency through installation of new water meters which can better detect leaks and water overuse. Doing so will improve the overall availability of water in the community. Given this information, Orick CSD is requesting a 100% match waiver for this project.

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.]

Orick CSD could provide smart meters to as many units as possible with reduced funding. A scaled budget would impact the overall project by reducing the amount of water saved and water availability for wildfires. Also, because this is a small project of 142 connections and the district has only two staff, funding a consultant or consultant team to manage the project is critical. Having to fund this service for two or more phases would not be our preferable or most affordable option.

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:

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.

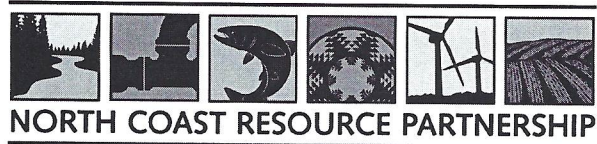
Project Name:	Orick Water Meter Replacement Project
Organization Name:	Orick Community Services District

Task #	Major Tasks	Task Description	Major Deliverables	IRWM Task Budget	Non-State Match	Other Match	Total Task Budget	25% Scaled IRWM Budget	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 and other deliverables as required	\$8,000.00	\$0.00	\$0.00	\$8,000.00	\$6,000.00	\$4,000.00	0%	7/1/23	5/31/24
2	Reporting	Develop monthly reports describing work completed, challenges, and strategies for reaching remaining project objectives. Develop Final Report	Quarterly and Final Reports	\$3,500.00	\$0.00	\$0.00	\$3,500.00	\$2,625.00	\$1,750.00	0%	7/1/23	5/31/24
B	Category (b): Land Purchase/Easement											
1	N/A	N/A	N/A	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%	N/A	N/A
C	Category (c): Planning/Design/Engineering/Environmental Documentation											
1	Final Design /Plans	Develop necessary details and mapping for project bidding	Final design plan set	\$12,000.00	\$0.00	\$0.00	\$12,000.00	\$9,000.00	\$6,000.00	0%	8/15/23	12/1/23
2	Project Performance Monitoring Plan	Develop Monitoring Plan to include goals and measurable objectives	Final Monitoring Plan	\$1,750.00	\$0.00	\$0.00	\$1,750.00	\$1,312.50	\$875.00	0%	7/1/23	12/1/23
3	Encroachment Permit	Secure encroachment permit from CalTrans	Finalized encroachment permit	\$5,000.00	\$0.00	\$0.00	\$5,000.00	\$3,750.00	\$2,500.00	0%	9/1/23	2/1/24
4	Environmental Documentation: CEQA	Complete environmental review pursuant to CEQA. Prepare all necessary environmental documentation.	Environmental Information Form approved by DWR	\$4,000.00	\$0.00	\$0.00	\$4,000.00	\$3,000.00	\$2,000.00	0%	11/15/23	12/31/23
D	Category (d): Construction/Implementation											
1	Contract Services	Solicit contractor for meter installation	Bid Documents; Proof of Advertisement; Award of Contract; Notice to Proceed	\$2,500.00	\$0.00	\$0.00	\$2,500.00	\$1,875.00	\$1,250.00	0%	12/1/23	1/31/24
2	Construction Administration	Oversee implementation activities and track contractor progress	Construction Management Logs; Completed construction administration tasks documented in monthly progress reports; DWR Certificate of Project Completion	\$4,000.00	\$0.00	\$0.00	\$4,000.00	\$3,000.00	\$2,000.00	0%	4/15/24	5/15/24
3	Mobilization and Site Preparation	Contractor mobilization	Photos of contractors on-site	\$9,500.00	\$0.00	\$0.00	\$9,500.00	\$7,125.00	\$4,750.00	0%	4/15/24	4/22/24
4	Traffic Control	Periodic traffic control as necessary	Photos of contractors on-site	\$5,000.00	\$0.00	\$0.00	\$5,000.00	\$3,750.00	\$2,500.00	0%	4/15/24	5/15/24
5	Meter Installation	Install new meters, meter boxes, curb stops	Post-construction photos of new meters	\$177,500.00	\$0.00	\$0.00	\$177,500.00	\$133,125.00	\$88,750.00	0%	4/15/24	5/15/24
6	Project Signage	Display project funding sign at OCSD offices	Photos of project signage	\$2,000.00	\$0.00	\$0.00	\$2,000.00	\$1,500.00	\$1,000.00	0%	3/1/24	3/31/24
7	Project Close Out, Inspection & Demobilization	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	\$3,200.00	\$0.00	\$0.00	\$3,200.00	\$2,400.00	\$1,600.00	0%	5/15/24	5/31/24
8	Project Performance Monitoring	The performance of the project will be monitored in accordance to the Monitoring Plan using the following measurement tools and methods: # of leaks identified, % of water pumped vs water sold compared to pre-project baseline	Monitoring data as necessary	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%	6/1/24	6/1/27
	Total North Coast Resource Partnership IRWM Grant Request			\$237,950.00	\$0.00	\$0.00	\$237,950.00	\$178,462.50	\$118,975.00			
	Percentage of Total Project Cost			100%	0%	0%	100%	75%	50%			



ORGANIZATION INFORMATION

1. **Project Name:**
Orick Water Meter Replacement Project
2. **Applicant Organization Name:**
Orick Community Services District (Orick CSD)
3. **Contact Name/Title**
Name: Trevor Avram
Title: District Manager
Email: avramtrevor@gmail.com
Phone Number (include area code): (707)488-5741
4. **Organization Address (City, County, State, Zip Code):**
101 Swan Rd., Orick, CA 95555
5. **Organization Type**
☐ 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: Ron Barlow
Title: Board Chairman
Email: orickcsd@gmail.com
Phone Number (include area code): (707) 488-5741
7. **List all projects the organization is submitting to the NCRP for this Solicitation in order of priority.**
Orick Water Meter Replacement Project
8. **Organization Information Notes:**
The Orick CSD was formed in 1955 and was organized pursuant to Resolution No. 2130 adopted under the Community Services District Law, pursuant to California Government Code, Title 6, Division 2. The governing board of the District is the Board of Supervisors; however, a five member Board of Directors is elected by the citizens of the District to supervise the business of the District. The District was formed for the purpose of providing water and fire protection services.



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



NORTH COAST RESOURCE PARTNERSHIP

☐ 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?

- **Priority 3. Drought Preparedness:** The project promotes water conservation by replacing existing water meters with smart water meters. The project will achieve long-term reduction of water use by improving the ability of property owners and Orick CSD to recognize and reduce water overuse and water loss due to leaks.
-
- **Priority 4. Climate Resilience:** The project will use water and reuse more efficiently by reducing overuse and leaks and by increasing the available for use during wildfires.



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

Ron Barlow, Board Chairman

Date

11-2-22

Orick CSD Water Meter Replacement Project

NCRP Prop 1 IRWM Round 2 Application

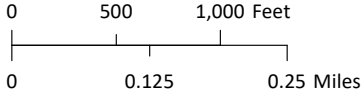
Figure 1: Project Location Map



Map produced October 2022
Drafted by: VSD, Reviewed by: JRB
Coordinate System: NAD 83, Calif. State Plane Zone II
Projection: Lambert Conformal Conic
Aerial Imagery: US Dept. of Agriculture/ArcGIS Online mosaic
Topographic Data: USGS 7.5 minute quad series Mount Diablo Base & Meridian
Parcel numbers are for tax purposes only and do not represent legal or salable parcels.
All spatial data is approximate. This map is not a substitute for a proper land survey.

Legend

- Water Meter
- ▭ Humboldt County Boundary



**THIS MAP AND DATA ARE PROVIDED WITHOUT WARRANTY OF ANY KIND.
DO NOT USE THIS MAP TO DETERMINE LEGAL PROPERTY BOUNDARIES**



BOARD OF SUPERVISORS
COUNTY OF HUMBOLDT

825 5th Street, Suite 111, Eureka, CA 95501-1153
Telephone (707) 476-2390 Fax (707) 445-7299

September 29, 2022

North Coast Resource Partnership
Katherine Gledhill
kgledhill@northcoastresourcepartnership.org

Subject: Letter of Support
Orick Community Services District Proposition 1 IRWM Round 2 Grant Application

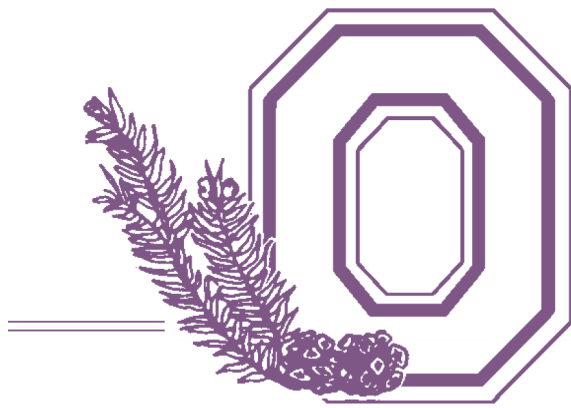
To NCRP Leadership Council:

The 5th District Supervisor for Humboldt County submits this letter in support of the application submitted by the Orick Community Services District for the North Coast Resource Partnership 2022 Proposition 1 IRWM Round 2 Grant Solicitation which would fund the replacement of outdated and failing water meters and associated infrastructure throughout the district.

Water conservation is more important than ever in the face of ongoing drought and climate change. With an upgrade to smart water meters with remote access, Orick will be able to identify suspected leaks or excessive usage in a timely manner and notify customers right away, rather than wait until the next manual meter reading and billing cycle. Minimizing water loss benefits not only the business and residents within the Orick Community Services District but also the surrounding community and local environment. Additionally, updating the failing water meters to new smart meters helps to ensure water availability for all, including potential new commercial or residential development.

The funding of this grant application is pivotal for water conservation and potential future development in Orick. I fully supports this project and recommends it receive funding. Orick is at a critical juncture in its efforts to bring public safety and economic development to its community.

Sincerely, Steve Madrone, 5th District County Supervisor



Orick

SCHOOL DISTRICT

Where students have pride in themselves, their school, and their community

October 4, 2022

North Coast Resource Partnership

Katherine Gledhill

kgledhill@northcoastresourcepartnership.org

Subject: Letter of Support

Orick Community Services District Proposition 1 IRWM Round 2 Grant Application

To NCRP Leadership Council:

The Orick Elementary School District submits this letter in support of the application submitted by the Orick Community Services District for the North Coast Resource Partnership 2022 Proposition 1 IRWM Round 2 Grant Solicitation which would fund the replacement of outdated and failing water meters and associated infrastructure throughout the district.

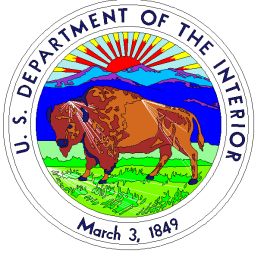
Water conservation is more important than ever in the face of ongoing drought and climate change. With an upgrade to smart water meters with remote access, Orick will be able to identify suspected leaks or excessive usage in a timely manner and notify customers right away, rather than wait until the next manual meter reading and billing cycle. Minimizing water loss benefits not only the business and residents within the Orick Community Services District but also the surrounding community and local environment. Additionally, updating the failing water meters to new smart meters helps to ensure water availability for all, including potential new commercial or residential development.

The funding of this grant application is pivotal for water conservation and potential future development in Orick. Orick Elementary School District fully supports this project and recommends it receive funding.

Sincerely,

Amanda Platt

Superintendent/Principal



United States Department of the Interior

Redwood National Park

1111 Second Street
Crescent City, California 95531

1.A.1 – Orick Community Services District

October 5, 2022

North Coast Resource Partnership
Katherine Gledhill
kgledhill@northcoastresourcepartnership.org

To NCRP Leadership Council:

The National Park Service is aware of the application being developed by the Orick Community Services District (OCSD) for the North Coast Resource Partnership 2022 Proposition 1 IRWM Round 2 Grant Solicitation. This grant is intended to fund the replacement of outdated and failing water meters and associated infrastructure throughout the district in order to protect and conserve water resources.

Water conservation is critically important to all Californians, even more so in the face of ongoing drought. With an upgrade to smart water meters with remote access, OCSD will be able to identify suspected leaks or excessive usage in a timely manner and notify customers right away, heading off water loss that is costly for customers in this disadvantaged community. Minimizing water loss benefits not only the businesses and residents within the District, but also Redwood National Park (RNP) which surrounds Orick Valley. Congressional legislation, expanding the park in 1978, identified the protection and conservation of water resources and quality as a priority management action for park managers. This grant will help OCSD better manage its water-related responsibilities for its customers, and aligns well with NPS goals to protect and conserve vital water resources for resource, visitor, and community needs alike.

Redwood National Park looks forward to working with OCSD on this and all other water-related issues impacting residents and resources in the Orick Valley. If you have any questions, please feel free to contact Saylor Moss, Compliance Officer, at Saylor_Moss@nps.gov.

Sincerely,

10/5/2022

DocuSigned by:

8815748A67964C8...
Steven N. Mietz
Superintendent
Redwood National Park

October 7, 2022

North Coast Resource Partnership
Katherine Gledhill
kgledhill@northcoastresourcepartnership.org

Subject: Support for Orick Community Services District Proposition 1 IRWM Round 2
Grant Application

To NCRP Leadership Council:

On behalf of California Trout, I am in full support of the application submitted by the Orick Community Services District for the North Coast Resource Partnership 2022 Proposition 1 IRWM Round 2 Grant Solicitation which would fund the replacement of outdated and failing water meters and associated infrastructure throughout the district.

Water conservation is more important than ever in the face of ongoing drought and climate change. With an upgrade to smart water meters with remote access, Orick will be able to identify suspected leaks or excessive usage in a timely manner and notify customers right away, rather than wait until the next manual meter reading and billing cycle. Minimizing water loss benefits not only the business and residents within the Orick Community Services District but also the surrounding community and local environment. Additionally, updating the failing water meters to new smart meters helps to ensure water availability for all, including potential new commercial or residential development.

The funding of this grant application is pivotal for water conservation and potential future development in Orick. California Trout fully supports the forward-thinking efforts by the OCSD to protect the Redwood Creek waters and public health and safety. Specifically, California Trout supports this project and recommends it receive funding.

Please feel free to contact me with any additional questions. Thank you for your consideration.

Sincerely,



Mary Burke
North Coast Regional Manager
California Trout
(707) 200-6551
mburke@caltrout.org