



## CITIZENS' ADVISORY COMMITTEE ON MEASURE Z EXPENDITURES

(Advisory Committee will make recommendations to the Humboldt County Board of Supervisors as to expenditure of funds derived from *Measure Z*.)

### APPLICATION FOR FUNDING

Agency Name: Redway Community Services District

Mailing Address: 1150 Evergreen Road Unit 2  
PO Box 40  
Redway, CA 95560

Contact Person: Terrence Williams

Title: General Manager

Telephone: (707)923-3101

E-mail address: twilliams.rcsd@gmail.com

1. AMOUNT OF MEASURE Z FUNDING REQUESTED FOR FY ~~2018-19~~ 2019-20: \$110,423.20

2. ENTITY TYPE -- Please check appropriate box.

- a. Humboldt County Department ☐
- b. Contract Service Provider to Humboldt County ☐
- c. Local Government Entity ☒
- d. Private Service Provider ☐
- e. Non-Profit Service Provider ☐
- f. Other ☐

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3. Please provide brief description of proposal for which you are seeking funding.

Replacement of 40 obsolete unserviceable and failing dry barrel fire hydrants with modern wet barrel units. These obsolete hydrants pose a health and safety hazard to the residents of Redway as well as the fire fighters that might try to use these failing units in an emergency.

4. How are you developing a plan for sustainability, including diversification of funding sources, in order for your proposal to carry on without reliance on future *Measure Z* funds?

Redway CSD puts away money annually for capital improvement projects which has been used for individual hydrant upgrades in years past. Redway CSD is also currently seeking funding through the Drinking Water State Revolving Fund for an infrastructure upgrade project. If the infrastructure upgrade project is funded, there will be money for extending main lines and adding additional hydrants to the system.

5. If this request is for the continuation, or expansion, of an existing program/service, what is the current source of funding for that program/service?

This one-time project will replace the ongoing hydrant replacement effort that is currently under-funded through capital improvement savings.

6. If you are awarded *Measure Z* funds, how will you use them to leverage additional grants, contributions, or community support?

If RCSD receives *Measure Z* funds we will leverage additional community support through acknowledgement signage on Redwood Drive, radio and print ads regarding the project as well as documentation on the RCSD website.

7. Will this proposal require new or expanded activity on the part of another entity to be fully functional and effective? If so, please describe.

This project will not require expanded activity on the part of another entity to be fully functional or effective.

8. Are there recurring expenses associated to this application, such as personnel costs? Please check yes or no and if so, please detail those expenses. ☐ Yes ☒ No

All maintenance and testing of these upgraded hydrants will be performed under our existing hydrant maintenance and testing program.

**ATTACHMENTS—Please include the following with your application**

**Proposal Narrative:** Brief description of your request for *Measure Z* funds – Please explain how it is an essential service or for public safety. (one page maximum)

**Prior Year Results:** If your request is a continuation of a program funded with *Measure Z* in prior fiscal years, please provide the results of implementation. (one page maximum)

**Program Budget**

**Support Letter:** This letter of support from the Redway Fire Protection District describes how this project benefits their district and why they support this project.

**I declare under penalty of perjury under the laws of the State of California that the above statements and all attachments are true and correct**

DATE: FEB. 19, 2019

SIGNATURE: 

**SUBMIT THIS APPLICATION TO:**

Humboldt County Citizens' Advisory Committee on *Measure Z* Expenditures  
c/o County Administrative Office  
825 Fifth Street, Room 112  
Eureka, CA 95501-1153

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## Redway CSD Fire Hydrant Upgrade Project Budget

This program budget accompanies the Redway Community Services District 2019 Measure Z funding application. Table 1 describes the budget for the proposed fire hydrant upgrade project. The budget is broken down into four sections; parts, labor, equipment and additional expenses. The parts described are the parts required to replace 40 fire hydrants in the Redway CSD. The labor described includes a master water system mechanic, a general laborer and two flaggers for each installation with an estimated installation time of four hours per hydrant. The equipment budget includes a 185 CFM trailer mounted air compressor to drive pneumatic equipment, a 90-pound jackhammer for breaking the grade level concrete collar and a high torque pneumatic impact tool to drive the RCSD developed valve seat removal tool. The additional expenses describe the anticipated costs incurred by the district for advertising and signage intended to garner community awareness and support for the project.

Table 1: The table describes the budget for the Redway CSD fire hydrant upgrade project for which Measure Z funding is being sought in 2019.

Redway CSD 2019 Measure Z Budget Fire Hydrant Upgrade Project				
<b>Parts Budget</b>				
Part Number	Description	Price Each	Quantity	Extended
A-415	Mueller Wet Barrel Fire Hydrant	1,100.00	40	\$44,000.00
6FXFA	Flange Adapter	525.00	40	\$21,000.00
1TUV6	Flange Gasket	11.09	40	\$443.60
75749259	O-ring	9.89	40	\$395.60
2515156	Bolt Kit	19.75	80	\$1,580.00
<b>Parts Total</b>				<b>\$67,419.20</b>
<b>Equipment Budget</b>				
Description	Daily Rate	Number of Installs	Extended	
Trailer Mounted Air Compressor	\$135	40	\$5,400.00	
90 Pound Jackhammer	\$75	40	\$3,000.00	
1 Inch High Torque Impact Tool	\$25	40	\$1,000.00	
<b>Labor Total</b>				<b>\$9,400.00</b>
<b>Labor Budget</b>				
Hourly Rate	Description	Hours per Install	Number of Installs	Extended
\$65	Water System Mechanic	4	40	\$10,400.00
\$35	General Laborer	4	40	\$5,600.00
\$35	Flagger	4	40	\$5,600.00
\$35	Flagger	4	40	\$5,600.00
<b>Labor Total</b>				<b>\$27,200.00</b>
<b>Additional Expenses Budget</b>				
Description	Price	Quantity	Extended	
Newspaper Ad	\$27	52	\$1,404.00	
Redway Drive Signage	\$2,500	2	\$5,000.00	
KMUD Radio Ad	Free	52	Free	
<b>Additional Expenses Total</b>				<b>\$6,404.00</b>
<b>Project Total</b>				<b>\$110,423.20</b>

Program development represents real costs for RCSD. RCSD staff has spent considerable effort and resources developing the tools, relationships and methods necessary to make this project successful. The impetus for this effort is cost savings. RCSD staff developed the seat removal tool so that the existing in ground components can be reused rather than replaced. Significant time and resources went into developing and proving out the proposed method. The custom flange adapters were designed in house to adapt the existing equipment to the modern hydrants. RCSD estimates that \$15,000 has been spent developing this program. The costs for this effort are not included in this budget, however they do represent significant savings to the program. The engineers estimate of probable cost for performing this project using conventional methods is about \$20,000 per hydrant or \$800,000.00 for the program.



Redway Community Services District  
P.O. Box 40  
Redway, CA 95560  
(707) 923-3101

February 19, 2019

Measure Z Committee:

Redway Community Services District (RCSD) operates a water distribution system in the Southern Humboldt community of Redway CA. There are 750 connections to the water system serving a population of 1,225 according to the 2010 census. Redway CSD maintains 53 fire hydrants for fire suppression many of which service the wildland-urban interface surrounding the community center. Forty of these hydrants are obsolete dry barrel units installed in the mid to late sixties. These dry barrel units utilize a foot valve that is buried several feet underground and encased in several cubic feet of concrete. The conventional method for replacing these failing dry barrel units would be to dig up the foot valve by jack hammering out the thrust block and then replace all of the plumbing from the isolation valve to the hydrant and pour a new concrete thrust block. This method is labor intensive, in many cases requires lane or road closure for several days and is altogether cost prohibitive on our limited budget.

RCSD has developed a tool that allows us to remove the foot valve mechanism from the underground valve housing. Once the valve mechanism is removed, water can pass through the valve housing unrestricted. This allows RCSD staff to mount a modern wet barrel hydrant on top of the existing riser assembly using a flange adapter. This method significantly reduces the parts and labor and therefore the cost of replacing a hydrant. Further, RCSD has identified a lot of 40 new old stock modern wet barrel hydrants available at a fraction of the wholesale cost of the units. These hydrants meet or exceed the needs of the of RCSD and represent a significant cost saving when compared to purchasing hydrants from a conventional supplier.

Using the described method of replacing hydrants, RCSD staff can replace a hydrant in several hours as compared to several days for the conventional method. Considering this labor savings coupled with the discounted parts available to RCSD, it becomes feasible to consider a one-time hydrant upgrade project spanning one year rather than an ongoing 10-year project replacing four hydrants per year. The long-term project also leaves RCSD vulnerable to these failing hydrants for many years to come. Measure Z funding for this project will alleviate this vulnerability.

Redway Fire Protection District currently enjoys a favorable ISO rating. If these failing hydrants are not replaced soon, the strong ISO rating that Redway Fire Protection District has will be jeopardized. Additionally, economic development in the community may be impacted negatively. Water supply and delivery systems are valued highly by the ISO inspection process.

The RCSD Board and staff would like to thank the Humboldt County Citizen's Advisory Committee on Measure Z Expenditures for considering this application to fund a one-time hydrant upgrade project for the community of Redway.

Sincerely,

Terrence Williams  
General Manager



# Redway Fire Protection District

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TELEPHONE 707/923-2617  
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Citizens Oversight Committee on Measure Z Expenditures  
825 5<sup>th</sup> Street  
Eureka, CA 95501

February 19, 2019

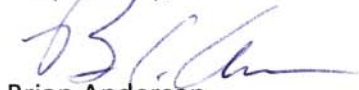
Committee Members,

This letter is to support the Redway Community Services District's application to fund the replacement of obsolete fire hydrants. Unlike other CSD requests to your committee, RCSD has located a supply of surplus hydrants that are in essence "brand new" for a significant cost reduction. Additionally, RCSD staff has developed a method of hydrant replacement that expedites the process of replacement saving even more money, making this application very unique indeed.

With the possible upgrade to our fire hydrant system, this places the Redway Fire Protection District's ISO rating in a very favorable position. The Insurance Services Office (ISO) rates every fire service provider throughout the United States on their ability to combat fire, and Redway is no exception. This rating system dictates the premiums charged by insurance companies to business and home owners within the fire district and water supply comprises 40% of this overall rating. Our last ISO inspection was fifteen years ago, and we are overdue. Due to significant fire losses within our state recently, insurance companies are more restrictive on providing coverage in rural areas.

This project will not only enhance our ability to access water in the event of a fire, but also has a very real potential to have a positive economic impact on our community. As a former committee member, I was critical of similar projects from CSD's as they proposed to purchase brand new materials and use conventional replacement means. This proposal's use of surplus hydrants, combined with the engineering of a highly efficient replacement system, and the cost savings to the public to enhance our rural fire protection ability has earned my support.

Respectfully,



Brian Anderson

Fire Chief

Redway Fire Protection District