

Proposal Full View

| Applicant Information | | | | |
|----------------------------------|--|--------------------------|-----------------|--------------------|
| Organization Name* | County of Ventura | | | |
| Point Of Contact | First Name:* | Jeewoong | Last Name:* | Kim |
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| | Address Line 1:* | 6767 Spring Road | Address Line 2: | |
| | City:* | Moorpark | State:* | California |
| | Zip:* | 93020 | | |
| Point Of Contact Position Title* | Engineering Manager | | | |
| Proposal Name* | Urban Drought 2022 Ventura County Waterworks Districts No. 1 and No. 19 Proposal | | | |
| Proposal Objective* | To implement a suite of projects that: (a) optimize local groundwater supplies and (b) offset potable water use with recycled water. | | | |

| Budget Information | |
|----------------------|-----------------|
| Other Contribution | \$0.00 |
| Local Contribution | \$0.00 |
| Federal Contribution | \$0.00 |
| Inkind Contribution | \$0.00 |
| Amount Requested* | \$23,148,785.00 |
| Total Proposal Cost* | \$23,148,785.00 |

| Geographic Information | | | | | | |
|----------------------------------|--|------|-----|----|-----|----|
| Latitude* | DD(+/-): | 34 | MM: | 16 | SS: | 26 |
| Longitude* | DD(+/-): | -118 | MM: | 55 | SS: | 49 |
| Longitude/Latitude Clarification | Rough geometric center Ventura County Waterworks Districts No. 1 and No 19 service area, intersection of Highway 118 and Grimes Canyon Road. | | | | | |
| Location | | | | | | |
| County* | Ventura | | | | | |
| Ground Water Basin | | | | | | |
| Hydrologic Region | | | | | | |
| Watershed | | | | | | |

| Legislative Information | |
|----------------------------|--|
| Assembly District* | 37th Assembly District, 44th Assembly District |
| Senate District* | 19th Senate District, 27th Senate District |
| US Congressional District* | District 26 (CA) |

Project Information

| Project Name: Urban Drought 2022 Ventura County Waterworks Districts No. 1 and No. 19 Proposal | |
|--|----------|
| Implementing Organization | |
| Secondary Implementing Organization | |
| Proposed Start Date | 1/1/0001 |
| Proposed End Date | 1/1/0001 |
| Scope Of Work | |
| Project Description | |
| Project Objective | |

| Project Benefits Information | |
|------------------------------|--|
| No records found. | |

| Budget Information | |
|--------------------|--------|
| Other Contribution | \$0.00 |
| Local Contribution | \$0.00 |

| | |
|-----------------------------|-----------------|
| Federal Contribution | \$0.00 |
| Inkind Contribution | \$0.00 |
| Amount Requested* | \$23,148,785.00 |
| Total Project Cost* | \$23,148,785.00 |

| Geographic Information | | | | | | |
|---|--|------|------------|----|------------|----|
| Latitude* | DD(+/-): | 34 | MM: | 16 | SS: | 26 |
| Longitude* | DD(+/-): | -118 | MM: | 55 | SS: | 49 |
| Longitude/Latitude Clarification | Rough geometric center Ventura County Waterworks Districts No. 1 and No 19 service area, intersection of Highway 118 and Grimes Canyon Road. | | | | | |
| Location | | | | | | |
| County* | Ventura | | | | | |
| Ground Water Basin | 4-008 Las Posas Valley | | | | | |
| Hydrologic Region | South Coast | | | | | |
| Watershed | HUC 6-180701 | | | | | |

| Legislative Information | |
|-----------------------------------|--|
| Assembly District* | 37th Assembly District, 44th Assembly District |
| Senate District* | 19th Senate District, 27th Senate District |
| US Congressional District* | District 26 (CA) |

Section : Application Attachments

Application Attachments

Attachment 1: Authorizing Resolution

Upload Authorizing Resolution if available here. (See Appendix C; submitted as Attachment 1)

Last Uploaded Attachments: Att1_UCDRG_Resolution_1of1.pdf

Attachment 2: Self-Certification Form

Upload Self-Certification Form here. (See Appendix D; submitted as Attachment 2)

Support letter(s) from GSA(s) if project affects groundwater in medium or high priority basin.*

Last Uploaded Attachments: Att2_UCDRG_SelfCertification_1of2.pdf,Att2_UCDRG_SelfCertification_2of2.pdf

Attachment 3: Budget

Upload Budget here. (See Appendix E; submitted as Attachment 3)*

Last Uploaded Attachments: Att3_UCDRG_Budget_1of1.docx

Attachment 4: Schedule

Upload Schedule here. (See Appendix F; submitted as Attachment 4)*

Last Uploaded Attachments: Att4_UCDRG_Schedule_1of1.docx

Attachment 5: Wholesaler Summary Sheet

Upload Wholesaler Summary Sheet here. (See Appendix G; submitted as Attachment 5)

Last Uploaded Attachments: Att5_UCDRG_WholesalerSummary_1of1.pdf

Attachment 6: Underrepresented Community Benefits

Upload Underrepresented Community Benefits here. (If applicable, See Appendix H; submitted as Attachment 6)

Last Uploaded Attachments: Att6_UCDRG_URCBenefits_1of1.pdf

Section : Project Information Tab 1

Project Information Tab 1

Self-Certification

By clicking on Yes on this question, the applicant certifies that all information included in this application is true and correct, and the applicant has made his/her best efforts to confirm the veracity of its contents as of the date of submission of this application.*

☒ a) Yes

☐ b) No

1. Project Name

Provide enter the project name.*

Replace Well 15 and Construct Reclaimed Water Tank

2. Local Partner Sponsor

Please enter the local partner sponsor name.*

Ventura County Waterworks District No. 1 (VCWWD1)

3. Water System Public ID

Please enter Water System Public ID.

5610018

4. Provide project map in a pdf format.

Please be sure to include the URC/DAC/EDA/Tribe area and benefits if claiming a benefit.*

Last Uploaded Attachments: Fig_01A_RepWell_15.pdf

5. Household Benefits

How many households will benefit from this project?*

11,100

6. Proposed Project Description

Please briefly describe the proposed project.*

The proposed project is the replacement of existing Well 15 and replacement of an existing reclaimed water tank on the same site. Well 15 suffers from deficient screen design. Installation of a liner to mitigate this and improve the well life dropped well capacity from 1200 gallons per minute (GPM) to 800 GPM. It is anticipated that there is less than 15 years before excessive plugging takes the well out of service permanently. The project includes new well drilling, new downhole equipment, new pump, and new motor, followed by demolition/closure of the existing well. The well site includes iron and manganese filters, part of the project is to resand the existing filters. To ensure a clean flow path to the new well, the replacement well must be at a distance from the existing well; the replacement well will go in the location currently occupied by an existing reclaimed water tank. Work will include demolishing the existing reclaimed water tank at the Well 15 site and constructing a new 30,000 gallon tank on the same parcel.

7. Grant Amount Requested

Enter the amount of funds being requested for the project.*

\$1,514,875

8. Other Cost Share

Enter the amount of any other cost share for the project. *

\$0

9. Geographical Information

Enter the geographical information for the project location (latitude and longitude in degrees[DD], minutes[MM], and seconds[SS]).

a. Latitude [DD]*

34

b. Latitude [MM]*

18

c. Latitude [SS]*

31.03

d. Longitude [DD]*

-118

e. Longitude [MM]*

54

f. Longitude [SS]*

25.95

10. County

Enter the County.*

Ventura County

11. Emergency Project Evaluation

a. Does this project respond to an existing emergency to humans and/or wildlife? If yes, please answer questions b-d below.

- ☒ a) Yes
☐ b) No

b. How does this project address a current water supply shortage which significantly endangers the public health, safety or welfare of a specific community or region?

In the VCWWD1 service area, imported water has historically made of 71% of supplies, groundwater has constituted 20% and recycled water 9%. In 2022 and continuing into the summer of 2023, VCWWD1 anticipates receiving only about 35% of its normal imported supply. This means the VCWWD1 service area will have to undertake significant conservation. VCWWD1 is warning customers in the retail area that without improved supply a move to a Stage 4 Shortage is likely. A Stage 4 Shortage would mean an increase in fines for failure to comply with restriction, prohibitions on certain types of landscape irrigation and limitation on irrigation days.

The proposed project increases the availability of local groundwater. This means some of the supply needs of the VCWWD1 service area could be met through groundwater.

c. How does this project address a current water quality emergency which significantly endangers the public health, safety or welfare of a specific community or region?

The groundwater basin from which Well 15 will pump does have issues with iron and manganese. Several wells in the area produce water that exceed the secondary Drinking Water Standards. When imported water is available, VCWWD1 has a source to blend groundwater with to reduce the iron and manganese levels. The Well 15 site is already equipped with iron and manganese filters and the proposed project includes resanding these filters. In this way, VCWWD1 will be able to deliver groundwater without the need for blending with scarce imported water.

d. How does this project address a current water supply shortage or water quality emergency which significantly endangers a species of concern or a species listed on either the California or Federal Endangered Species Acts?

Not applicable.

12. Community Drought Impacts

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

Persons in the VCWWD1 service area are being asked to reduce water use by at least 25%. Commercial, Industrial, and Institutional customers and Homeowners Associations are being asked to cease irrigation of non-functional turf, unless irrigated with recycled water.

13. Impact on Drought

How will this project alleviate the drought impacts described above?*

Currently the shortage "gap" in the VCWWD1 retail area is being met through conservation and the need for conservation will become burdensome without an improved supply situation. The Replace Well 15 and Construct Reclaimed Water Tank project will restore approximate 400 gallons per minute of pumping capacity, about 516 acre-feet per year of additional groundwater supply (assuming well uptime of 80%).

14. Funding Need

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

Without funding, the project will be implemented as Capital Improvement Funds allow, sometime after year 2027. The project schedule would be delayed.

15. Partial Award

Can the applicant utilize a partial award if one should be made available? What would the minimum funding needed be to complete the project as proposed?*

No.

16. Primary Benefit Value

Please quantify the benefit the project would provide.*

516

17. Primary Benefit Type

Select the primary benefit type of the project.

Please note the GRanTS cannot accommodate the full drop-down menu for benefit types in one menu. The system will show three dropdowns from which applicant should choose one answer.

--Select One--

Water Supply

--Select One--

18. Primary Benefit Unit

a. Please select the primary benefit unit of the project.*

Acre feet per year

b. If other, please provide primary unit benefit.

19. Secondary Benefit Value

Please quantify the level benefit the project would provide.

20. Secondary Benefit Type

Select the secondary benefit type of the project.

Please note the GRanTS cannot accommodate the full drop-down menu for benefit types in one menu. The system will show three dropdowns from which applicant should choose one answer.

--Select One--

--Select One--

--Select One--

21. Secondary Benefit Unit

a. Please select the secondary benefit unit of the project.

--Select One--

b. If other, please provide secondary unit benefit.

22. Benefit Justification

Please briefly describe how the project will achieve the claimed benefits including how the project benefits an Urban Community. Please include in the explanation information on the timespan of the primary project benefit and how the project will adapt to ensure a public benefit under future climate conditions.*

VCWWD1, project applicant, is an urban water supplier in compliance with the Urban Water Management Plan Act. A project that benefits the VCWWD1 service area will benefit an Urban Community.

Benefits will be achieved when the new Well 15 produces water at a capacity 400 GPM greater than the current Well 15. VCWWD1 anticipates that the Well 15 and reclaimed water tank will function and provide benefits for at least 50 and 30 years, respectively.

VCWWD1 is proactively planning to adapt to and mitigate the effects of climate change. VCWWD1 is involved in various efforts to better use local groundwater and reduce demand on the more vulnerable imported water supplies, desalt local groundwater, and to shift demand to recycled water. The proposed project, Well 15, is a necessary step in beneficially using local groundwater.

23. Underrepresented Community

Does the project provide a benefit(s) to an Underrepresented Community?

- ☐ a) Yes
☒ b) No

24. Underrepresented Community Benefits

Provide a numeric percentage of the project benefits that go to an Underrepresented Community.

Not applicable.

25. Underrepresented Community Benefit Description

If the project provides a benefit to an Underrepresented Community please describe the benefit, the percentage of project benefit and justification for the benefit level, and how the area meets the definitions of an Underrepresented Community.

Not applicable.

26. Tribe

Does the project provide a benefit(s) to a Tribe?

- ☐ a) Yes
☒ b) No

27. Tribe Percentage

What percentage of the project benefit will go to a Tribe? Provide a numeric percentage of the project benefits to a Tribe.

Not applicable.

28. Tribe Benefit Description

If the project provides a benefit to a Tribe please include the name of the Tribe, the percentage of project benefits directly benefitting the Tribe, and justification for the benefit level.

Not applicable.

29. Climate Change Vulnerabilities

a. Please describe the specific climate change vulnerabilities that will impact the Urban Water Management Plan area. Applicants must cite a reference document which identifies the local area vulnerability (eg. UWMP, climate change analysis, local IRWM, etc.)

The County of Ventura prepared a Climate Change Action Plan (County of Ventura, General Plan Background Report, Appendix B. Climate Action Plan, September 2020) based on the State of California's 4th Climate Assessment Report. Likely affects include:

- Increased average temperatures, with more frequent extreme heat days
- Increase in temperate in summer and fall but cooler Januarys which will drive up water demands in summer and fall and increase risk of crop loss to freeze
- Decrease of 17% annual snowfall in the Los Padres National Forest affecting surface flows to Ventura County rivers and the VCWWD1 service area
- Increased temperatures in the Sierra Nevada with earlier and faster snowmelt, reducing available imported supplies particularly in the summer months.
- Greater wildfire risk throughout Ventura County

A specific look at how climate change and water supplies was undertaken in the June 2019 report Projected Changes in Ventura County Climate, Nina S. Oakley, Benjamin Hatchett, Daniel McEvoy of the Western Regional Climate Center and Lynn Rodriguez of the Watershed's Coalition of Ventura County. This report found:

-Greater number of dry days in the spring and fall but with little change in projected precipitation totals due to greater rainfall intensities. These greater rainfall intensities have implications for how groundwater recharge occurs.

-Implications for both imported water and groundwater supplies, with imported supplies being more vulnerable.

b. Please describe how the project will mitigate the vulnerabilities described in the previous question.

With climate change, the VCWWD1 service area will have less imported supplies coupled with increases in outdoor water use. Groundwater recharge will also be affected, but to a lesser degree than imported water. For this reason, VCWWD1 is working to optimize the ability to utilize groundwater resources.

30. Land Acquisition

Is land acquisition or landowner permission required for this project? If so, please briefly describe the status of the acquisition or agreement with the landowner. If the acquisition is not complete or permission not secured at the time of application, please describe the plan to complete it.*

Neither land acquisition nor land agreements are needed for the project.

31. Planning and Tasks

Has planning for this project been completed? Please describe the status of planning and tasks needed for the project.*

VCWWD1 engineering and operations staff have evaluated the condition of Well 15 and the reclaimed water tank and evaluated the benefits from replacing the well and the tank.

32. Design and Tasks

Has design for this project been completed? Please describe the status of design and tasks needed for the project.*

The project was not included in VCWWD1 Capital Improvement Plan due to budgetary constraints. Design has not yet started.

33. CEQA/NEPA

Are the CEQA (and NEPA if applicable) processes for this project complete? Please briefly describe the CEQA (or NEPA) documents for this project.*

VCWWD1 anticipates completing a Categorical Exemption for the project. All work will occur within the existing well site.

34. Permitting

Is permitting for this project complete? Please briefly describe the permits necessary to complete this project.*

The anticipated permits are: (a) well drilling permit to be acquired from the County of Ventura and (b) amendment to the domestic water supply permit.

35. Construction/Implementation Activities

Please describe the necessary activities related to construction/implementation for this project.*

Construction will consist of: (a) redrilling well, (b) installing new downhole well equipment, well pump, and motor, (c) destroying the old well, (d) demolishing the existing reclaimed water tank, and (e) constructing a new reclaimed water tank.

Section : Project Information Tab 2

Project Information Tab 2

1. Project Name

Provide enter the project name.

Rehabilitation Well 20

2. Local Partner Sponsor

Please enter the local partner sponsor name.

Ventura County Waterworks District 1 (VCWWD1)

3. Water System Public ID

Please enter Water System Public ID.

5610018

4. Provide project map in a pdf format.

Please be sure to include the URC/DAC/EDA/Tribe area and benefits if claiming a benefit.

Last Uploaded Attachments: Fig_02A_RehabWell_20.pdf

5. Household Benefits

How many households will benefit from this project?

11,100

6. Proposed Project Description

Please briefly describe the proposed project.

Well 20 has had dropping water levels as well as severe plugging of the screens and has been offline for several years. With rehabilitation (chemical cleaning of screens and a lowered pump), Well 20 is anticipated to produce 900 GMP (about 1162 AFY). The project is the development of specifications for Well 20 rehabilitation, chemical cleaning of the well screens, installation of a new lower pump within the well.

7. Grant Amount Requested

Enter the amount of funds being requested for the project.

\$281,750

8. Other Cost Share

Enter the amount of any other cost share for the project.

\$0

9. Geographical Information

Enter the geographical information for the project location (latitude and longitude in degrees[DD], minutes[MM], and seconds[SS]).

a. Latitude [DD]

34

b. Latitude [MM]

18

c. Latitude [SS]

15.11

d. Longitude [DD]

-118

e. Longitude [MM]

54

f. Longitude [SS]

19.61

10. County

Enter the County.

Ventura County

11. Emergency Project Evaluation

a. Does this project respond to an existing emergency to humans and/or wildlife? If yes, please answer questions b-d below.

- ☒ a) Yes
☐ b) No

b. How does this project address a current water supply shortage which significantly endangers the public health, safety or welfare of a specific community or region?

In the VCWWD1 service area, imported water has historically made of 71% of supplies, groundwater has constituted 20% and recycled water 9%. In 2022 and continuing into the summer of 2023, VCWWD1 anticipates receiving only about 35% of its normal imported supply. This means the VCWWD1 service area will have to undertake significant conservation. VCWWD1 is warning customers in the retail area that without improved supply a move to a Stage 4 Shortage is likely. A Stage 4 Shortage would mean an increase in fines for failure to comply with restriction, prohibitions on certain types of landscape irrigation and limitation on irrigation days.

The proposed project increases the availability of local groundwater by 1162 AFY. This means some of the supply needs of the VCWWD1 service area could be met through groundwater.

c. How does this project address a current water quality emergency which significantly endangers the public health, safety or welfare of a specific community or region?

The groundwater basin from which Well 20 pumps does have issues with iron and manganese. Several wells in the area produce water that exceed the secondary Drinking Water Standards. When imported water is available, VCWWD1 has a source to blend groundwater with to reduce the iron and manganese levels. The Well 20 site is already equipped with iron and manganese filters. In this way, VCWWD1 will be able to deliver groundwater without the need for blending with scarce imported water.

d. How does this project address a current water supply shortage or water quality emergency which significantly endangers a species of concern or a species listed on either the California or Federal Endangered Species Acts?

Not applicable.

12. Community Drought Impacts

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

Persons in the VCWWD1 service area are being asked to reduce water use by at least 25%. Commercial, Industrial, and Institutional customers and Homeowners Associations are being asked to cease irrigation of non-functional turf, unless irrigated with recycled water.

13. Impact on Drought

How will this project alleviate the drought impacts described above?

Currently the shortage "gap" in the VCWWD1 retail area is being met through conservation and the need for conservation will become burdensome without an improved supply situation. Rehabilitation Well 20 project will enable use of approximate 1162 acre-feet per year of additional groundwater supply (assuming well uptime of 80%).

14. Funding Need

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

Without funding, the project will be implemented as Capital Improvement Funds for the retail area allow. The project schedule would be delayed.

15. Partial Award

Can the applicant utilize a partial award if one should be made available? What would the minimum funding needed be to complete the project as proposed?

No. In order for the well to function at capacity the full project must take place. Minimum funding is \$281,750.

16. Primary Benefit Value

Please quantify the benefit the project would provide.

1,162

17. Primary Benefit Type

Select the primary benefit type of the project.

Please note the GRanTS cannot accommodate the full drop-down menu for benefit types in one menu. The system will show three dropdowns from which applicant should choose one answer.

--Select One--

Water Supply (Ground)

--Select One--

18. Primary Benefit Unit

a. Please select the primary benefit unit of the project.

Acre feet per year

b. If other, please provide primary unit benefit.

19. Secondary Benefit Value

Please quantify the level benefit the project would provide.

Qualitativ

20. Secondary Benefit Type

Select the secondary benefit type of the project.

Please note the GRanTS cannot accommodate the full drop-down menu for benefit types in one menu. The system will show three dropdowns from which applicant should choose one answer.

--Select One--

Water Quality

--Select One--

21. Secondary Benefit Unit

a. Please select the secondary benefit unit of the project.

Other

b. If other, please provide secondary unit benefit.

improved odor

22. Benefit Justification

Please briefly describe how the project will achieve the claimed benefits including how the project benefits an Urban Community. Please include in the explanation information on the timespan of the primary project benefit and how the project will adapt to ensure a public benefit under future climate conditions.

VCWWD1, project applicant, is an urban water supplier in compliance with the Urban Water Management Plan Act. A project that benefits the VCWWD1 service area will benefit an Urban Community.

Benefits will be achieved when the improved Well 20 produces water. VCWWD1 anticipates that the improved Well 20 will function and provide benefits for at least 30 years.

VCWWD1 is proactively planning to adapt to and mitigate the effects of climate change. VCWWD1 is involved in various efforts to better use local

groundwater and reduce demand on the more vulnerable imported water supplies, desalt local groundwater, and to shift demand to recycled water. The proposed project, Rehabilitation Well 20, is a necessary step in beneficially using local groundwater.

23. Underrepresented Community

Does the project provide a benefit(s) to an Underrepresented Community?

- ☐ a) Yes
☒ b) No

24. Underrepresented Community Benefits

Provide a numeric percentage of the project benefits that go to an Underrepresented Community.

Not applicable.

25. Underrepresented Community Benefit Description

If the project provides a benefit to an Underrepresented Community please describe the benefit, the percentage of project benefit and justification for the benefit level, and how the area meets the definitions of an Underrepresented Community.

Not applicable.

26. Tribe

Does the project provide a benefit(s) to a Tribe?

- ☐ a) Yes
☒ b) No

27. Tribe Percentage

What percentage of the project benefit will go to a Tribe? Provide a numeric percentage of the project benefits to a Tribe.

Not applicable.

28. Tribe Benefit Description

If the project provides a benefit to a Tribe please include the name of the Tribe, the percentage of project benefits directly benefitting the Tribe, and justification for the benefit level.

Not applicable.

29. Climate Change Vulnerabilities

a. Please describe the specific climate change vulnerabilities that will impact the Urban Water Management Plan area. Applicants must cite a reference document which identifies the local area vulnerability (eg. UWMP, climate change analysis, local IRWM, etc.)

The County of Ventura prepared a Climate Change Action Plan (County of Ventura, General Plan Background Report, Appendix B. Climate Action Plan, September 2020) based on the State of California's 4th Climate Assessment Report. Likely affects include:

- Increased average temperatures, with more frequent extreme heat days
- Increase in temperate in summer and fall but cooler Januarys which will drive up water demands in summer and fall and increase risk of crop loss to freeze
- Decrease of 17% annual snowfall in the Los Padres National Forest affecting surface flows to Ventura County rivers and the VCWWD1 service area
- Increased temperatures in the Sierra Nevada with earlier and faster snowmelt, reducing available imported supplies particularly in the summer months.
- Greater wildfire risk throughout Ventura County

A specific look at how climate change and water supplies was undertaken in the June 2019 report Projected Changes in Ventura County Climate, Nina S. Oakley, Benjamin Hatchett, Daniel McEvoy of the Western Regional Climate Center and Lynn Rodriguez of the Watershed's Coalition of Ventura County. This report found:

- Greater number of dry days in the spring and fall but with little change in projected precipitation totals due to greater rainfall intensities. These greater rainfall intensities have implications for how groundwater recharge occurs.
- Implications for both imported water and groundwater supplies, with imported supplies being more vulnerable.

b. Please describe how the project will mitigate the vulnerabilities described in the previous question.

With climate change, the VCWWD1 service area will have less imported supplies coupled with increases in outdoor water use. Groundwater recharge will also be affected, but to a lesser degree. For this reason, VCWWD1 is working to optimize the ability to utilize groundwater resources, such as through the Rehabilitation Well 20 project.

30. Land Acquisition

Is land acquisition or landowner permission required for this project? If so, please briefly describe the status of the acquisition or agreement with the landowner. If the acquisition is not complete or permission not secured at the time of application, please describe the plan to complete it.

Neither land acquisition nor land agreements are needed for the project.

31. Planning and Tasks

Has planning for this project been completed? Please describe the status of planning and tasks needed for the project.

VCWWD1 engineering and operations staff have evaluated the condition of Well 20 and evaluated the benefits from rehabilitation the well.

32. Design and Tasks

Has design for this project been completed? Please describe the status of design and tasks needed for the project.

VCWWD1 is working on a contract to develop rehabilitation specifications.

33. CEQA/NEPA

Are the CEQA (and NEPA if applicable) processes for this project complete? Please briefly describe the CEQA (or NEPA) documents for this project.

VCWWD1 anticipates completing a Categorical Exemption for the project. All work will occur within the existing well site.

34. Permitting

Is permitting for this project complete? Please briefly describe the permits necessary to complete this project.

No permits are needed for the project.

35. Construction/Implementation Activities

Please describe the necessary activities related to construction/implementation for this project.

Construction will consist of: (a) well rehabilitation using chemical cleaning, (b) installation of a new pump.

Section : Project Information Tab 3

Project Information Tab 3

1. Project Name

Provide enter the project name.

Rehabilitate Wells 95 & 98 and Construct Well 95B

2. Local Partner Sponsor

Please enter the local partner sponsor name.

Waterworks District 1 (VCWWD1)

3. Water System Public ID

Please enter Water System Public ID.

5610018

4. Provide project map in a pdf format.

Please be sure to include the URC/DAC/EDA/Tribe area and benefits if claiming a benefit.

Last Uploaded Attachments: Fig_03A_RehabWell_95_98.pdf

5. Household Benefits

How many households will benefit from this project?

11,100

6. Proposed Project Description

Please briefly describe the proposed project.

Well 95, built in 1947, has exceeded its design life and suffers from an archaic screen design. Evaluation by VCWWD1 engineers estimates that new downhole equipment and mechanical rehabilitation can reduce fouling of the screens and return the well, in the foreseeable future, to a production rate of 600 GPM (the well is currently operating at 300 GPM). Well 98 also suffers from an outdated screen design and the screen is fouled with iron and manganese bacteria. Well 98 is offline; evaluation by VCWWD1 engineers estimates that with new downhole equipment and chemical rehabilitation, the well could return to service at 800 GPM capacity. Rehabilitation of Wells 95 and 98 could result in an additional 1100 GPM capacity, about 1420 AFY (assuming a well uptime of 80%). The simple rehabilitation of Wells 95 and 98 could be accomplished quickly. For longer-term operations VCWWD1 would drill a new well at the Well 95 site (Well 95B). Once Well 95B is in operation; Well 98 will be put into standby service and the original Well 95 destroyed. Well 95 is expected to produce 1500 GPM, about 1936 AFY (assuming well uptime of 80%). Well 95B would include iron and manganese filtration to avoid the need to blending with imported water.

7. Grant Amount Requested

Enter the amount of funds being requested for the project.

\$7,841,500

8. Other Cost Share

Enter the amount of any other cost share for the project.

\$0

9. Geographical Information

Enter the geographical information for the project location (latitude and longitude in degrees[DD], minutes[MM], and seconds[SS]).

a. Latitude [DD]

34

b. Latitude [MM]

178

c. Latitude [SS]

04.02

d. Longitude [DD]

-118

e. Longitude [MM]

55

f. Longitude [SS]

36.81

10. County

Enter the County.

Ventura County

11. Emergency Project Evaluation

a. Does this project respond to an existing emergency to humans and/or wildlife? If yes, please answer questions b-d below.

☒ a) Yes

☐ b) No

b. How does this project address a current water supply shortage which significantly endangers the public health, safety or welfare of a specific community or region?

In the VCWWD1 service area, imported water has historically made up 71% of supplies, groundwater has constituted 20% and recycled water 9%. In 2022 and continuing into the summer of 2023, VCWWD1 anticipates receiving only about 35% of its normal imported supply. This means the VCWWD1 service area will have to undertake significant conservation. VCWWD1 is warning customers in the retail area that without improved supply a move to a Stage 4 Shortage is likely. A Stage 4 Shortage would mean an increase in fines for failure to comply with restriction, prohibitions on certain types of landscape irrigation and limitation on irrigation days.

In the near-term the proposed project increases the availability of local groundwater by 1,420 AFY. In the longer-term the proposed project will result in 1,936 AFY local groundwater supply. This means some of the supply needs of the VCWWD1 service area could be met through groundwater even when imported water is not available for blending.

c. How does this project address a current water quality emergency which significantly endangers the public health, safety or welfare of a specific community or region?

The groundwater basin from which Wells 95 and 98 will pump does have issues with iron and manganese. Several wells in the area produce water that exceed the secondary Drinking Water Standards. When imported water is available, VCWWD1 has a source to blend groundwater with to reduce the iron and manganese levels. The proposed project includes building iron and manganese filtration along with Well 95B so that in the long-term the new groundwater supply will meet the secondary standards.

d. How does this project address a current water supply shortage or water quality emergency which significantly endangers a species of concern or a species listed on either the California or Federal Endangered Species Acts?

Not applicable.

12. Community Drought Impacts

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

Persons in the VCWWD1 service area are being asked to reduce water use by at least 25%. Commercial, Industrial, and Institutional customers and Homeowners Associations are being asked to cease irrigation of non-functional turf, unless irrigated with recycled water.

13. Impact on Drought

How will this project alleviate the drought impacts described above?

Currently the shortage "gap" in the VCWWD1 retail area is being met through conservation and the need for conservation will become burdensome without an improved supply situation. Rehabilitation of Wells 95 and 98 will enable use of approximate 1,420 acre-feet per year of additional groundwater supply (assuming well uptime of 80%) in the near-term; installation of Well 95B and iron and manganese filtration will result in a long-term groundwater supply of 1,936 AFY.

14. Funding Need

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

Without funding, the project will be implemented as Capital Improvement Funds allow. The project schedule would be delayed.

15. Partial Award

Can the applicant utilize a partial award if one should be made available? What would the minimum funding needed be to complete the project as proposed?

With reduced funding VCWWD1 could undertake rehabilitation of Wells 95 and 98; however given the poor condition of the wells rehabilitation will only extend the life of the wells for a limited time. Minimum funding to undertake well rehabilitation is estimated as \$900,000.

16. Primary Benefit Value

Please quantify the benefit the project would provide.

1936

17. Primary Benefit Type

Select the primary benefit type of the project.

Please note the GRANTS cannot accommodate the full drop-down menu for benefit types in one menu. The system will show three dropdowns from which applicant should choose one answer.

--Select One--

Water Supply (Ground)

--Select One--

18. Primary Benefit Unit

a. Please select the primary benefit unit of the project.

Acre feet per year

b. If other, please provide primary unit benefit.

19. Secondary Benefit Value

Please quantify the level benefit the project would provide.

2.14

20. Secondary Benefit Type

Select the secondary benefit type of the project.

Please note the GRanTS cannot accommodate the full drop-down menu for benefit types in one menu. The system will show three dropdowns from which applicant should choose one answer.

--Select One--

--Select One--

Other

21. Secondary Benefit Unit

a. Please select the secondary benefit unit of the project.

Other

b. If other, please provide secondary unit benefit.

redundant well

22. Benefit Justification

Please briefly describe how the project will achieve the claimed benefits including how the project benefits an Urban Community. Please include in the explanation information on the timespan of the primary project benefit and how the project will adapt to ensure a public benefit under future climate conditions.

VCWWD1 is an urban water supplier in compliance with the Urban Water Management Plan Act. A project that benefits the VCWWD1 service area will benefit an Urban Community. Benefits will be achieved when Well 95's production capacity is improved by an additional 300 GPM and Well 95 is brought back on-line (capacity of 800 GPM). The rehabilitated wells should produce 1,420 AFY. For longer-term operations VCWWD1 will drill Well 95B. Well 95B is expected to produce 1,500 GPM, about 1,936 AFY. Well 95B will include a new iron and manganese treatment facility. That will allow Well 95B water to meet the secondary standard for manganese even in the absence of blending water. The rehabilitated wells are expected to be utilized for approximately 3 years; Well 95B and the filtration facility should provide benefits for at approximately 50 years. VCWWD1 is planning to adapt to and mitigate the effects of climate change. VCWWD1 is involved in various efforts to better use local groundwater and reduce demand on the more vulnerable imported water supplies, desalt local groundwater, and to shift demand to recycled water. Rehabilitation of Wells 95 and 98 and replacement Well 95B with iron and manganese filtration is a necessary step in beneficially using local groundwater. The addition of iron and manganese treatment is a special adaption, it will allow the use of groundwater even if imported water is not available for blending and anticipates future regulation of manganese.

23. Underrepresented Community

Does the project provide a benefit(s) to an Underrepresented Community?

- ☐ a) Yes
☒ b) No

24. Underrepresented Community Benefits

Provide a numeric percentage of the project benefits that go to an Underrepresented Community.

Not applicable.

25. Underrepresented Community Benefit Description

If the project provides a benefit to an Underrepresented Community please describe the benefit, the percentage of project benefit and justification for the benefit level, and how the area meets the definitions of an Underrepresented Community.

Not applicable.

26. Tribe

Does the project provide a benefit(s) to a Tribe?

- ☐ a) Yes
☒ b) No

27. Tribe Percentage

What percentage of the project benefit will go to a Tribe? Provide a numeric percentage of the project benefits to a Tribe.

Not applicable.

28. Tribe Benefit Description

If the project provides a benefit to a Tribe please include the name of the Tribe, the percentage of project benefits directly benefitting the Tribe, and justification for the benefit level.

Not applicable.

29. Climate Change Vulnerabilities

a. Please describe the specific climate change vulnerabilities that will impact the Urban Water Management Plan area. Applicants must cite a reference document which identifies the local area vulnerability (eg. UWMP, climate change analysis, local IRWM, etc.)

The County of Ventura prepared a Climate Change Action Plan (County of Ventura, General Plan Background Report, Appendix B. Climate Action Plan, September 2020) based on the State of California's 4th Climate Assessment Report. Likely affects include:

- Increased average temperatures, with more frequent extreme heat days
- Increase in temperate in summer and fall but cooler Januarys which will drive up water demands in summer and fall and increase risk of crop loss to freeze
- Decrease of 17% annual snowfall in the Los Padres National Forest affecting surface flows to Ventura County rivers and the VCWWD1 service area
- Increased temperatures in the Sierra Nevada with earlier and faster snowmelt, reducing available imported supplies particularly in the summer months.
- Greater wildfire risk throughout Ventura County

A specific look at how climate change and water supplies was undertaken in the June 2019 report Projected Changes in Ventura County Climate, Nina S. Oakley, Benjamin Hatchett, Daniel McEvoy of the Western Regional Climate Center and Lynn Rodriguez of the Watershed's Coalition of Ventura County. This report found:

- Greater number of dry days in the spring and fall but with little change in projected precipitation totals due to greater rainfall intensities. These greater rainfall intensities have implications for how groundwater recharge occurs.
- Implications for both imported water and groundwater supplies, with imported supplies being more vulnerable.

b. Please describe how the project will mitigate the vulnerabilities described in the previous question.

With climate change, the VCWWD1 service area will have less imported supplies coupled with increases in outdoor water use. Groundwater recharge will also be affected, but to a lesser degree. For this reason, VCWWD1 is working to optimize the ability to utilize groundwater resources, such as through the project.

30. Land Acquisition

Is land acquisition or landowner permission required for this project? If so, please briefly describe the status of the acquisition or agreement with the landowner. If the acquisition is not complete or permission not secured at the time of application, please describe the plan to complete it.

Acquisition of approximately a 100 foot by 100 foot addition to the existing Well 95 site will be needed to accommodate Well 95B and iron and manganese filtration facility. Land acquisition has not yet started.

31. Planning and Tasks

Has planning for this project been completed? Please describe the status of planning and tasks needed for the project.

VCWWD1 engineering and operations staff have evaluated the condition of Wells 95 and 98 and evaluated the benefits from well rehabilitation.

32. Design and Tasks

Has design for this project been completed? Please describe the status of design and tasks needed for the project.

VCWWD1 is working on a contract to develop rehabilitation specifications. Design for the new Well 95B has not yet started.

33. CEQA/NEPA

Are the CEQA (and NEPA if applicable) processes for this project complete? Please briefly describe the CEQA (or NEPA) documents for this project.

Well rehabilitation actions are exempt from CEQA. VCWWD1 anticipates completing a Negative Declaration for Well 95B, not yet started.

34. Permitting

Is permitting for this project complete? Please briefly describe the permits necessary to complete this project.

A well drilling permit will be needed for new Well 95B; this permit will be applied for by the selected contractor. Following construction of Well 95B and the iron and manganese filtration plant, VCWWD1 will seek an amendment to the domestic water supply permit.

35. Construction/Implementation Activities

Please describe the necessary activities related to construction/implementation for this project.

Construction will consist of (a) rehabilitation of Wells 95 and 98, (b) drilling of Well 95B, (c) design and equipping of Well 95B, and (d) design and construction of iron and manganese treatment facility.

Section : Project Information Tab 4

Project Information Tab 4

1. Project Name

Provide enter the project name.

Replace Well 97 with Iron and Manganese Filtration

2. Local Partner Sponsor

Please enter the local partner sponsor name.

Ventura County Waterworks District 1 (VCWWD1)

3. Water System Public ID

Please enter Water System Public ID.

5610018

4. Provide project map in a pdf format.

Please be sure to include the URC/DAC/EDA/Tribe area and benefits if claiming a benefit.

Last Uploaded Attachments: Fig_04A_RepWell_97.pdf

5. Household Benefits

How many households will benefit from this project?

11,100

6. Proposed Project Description

Please briefly describe the proposed project.

Well 97 is a failed well. The proposed project is to build a new replacement well in the same location but with modern screens and casing materials. Based on nearby wells, the anticipated production rate of the replacement Well 97 will be 1500 GPM, about 1936 AFY (assuming well uptime of 80%). The project also includes construction of an iron and manganese facility to treat groundwater from the replacement Well 97.

7. Grant Amount Requested

Enter the amount of funds being requested for the project.

\$6,187,660

8. Other Cost Share

Enter the amount of any other cost share for the project.

\$0

9. Geographical Information

Enter the geographical information for the project location (latitude and longitude in degrees[DD], minutes[MM], and seconds[SS]).

a. Latitude [DD]

34

b. Latitude [MM]

17

c. Latitude [SS]

44.70

d. Longitude [DD]

-118

e. Longitude [MM]

56

f. Longitude [SS]

19.93

10. County

Enter the County.

Ventura County

11. Emergency Project Evaluation

a. Does this project respond to an existing emergency to humans and/or wildlife? If yes, please answer questions b-d below.

- ☒ a) Yes
☐ b) No

b. How does this project address a current water supply shortage which significantly endangers the public health, safety or welfare of a specific community or region?

In the VCWWD1 service area, imported water has historically made up 71% of supplies, groundwater has constituted 20% and recycled water 9%. In 2022 and continuing into the summer of 2023, VCWWD1 anticipates receiving only about 35% of its normal imported supply. This means the VCWWD1 service area will have to undertake significant conservation. VCWWD1 is warning customers in the retail area that without improved supply a move to a Stage 4 Shortage is likely. A Stage 4 Shortage would mean an increase in fines for failure to comply with restriction, prohibitions on certain types of landscape irrigation and limitation on irrigation days.

The proposed project increases the availability of local groundwater by 1,936 AFY. This means some of the supply needs of the VCWWD1 service area could be met through groundwater.

c. How does this project address a current water quality emergency which significantly endangers the public health, safety or welfare of a specific community or region?

The groundwater basin from which Well 97 will pump does have issues with iron and manganese. Several wells in the area produce water that exceed the secondary Drinking Water Standards. When imported water is available, VCWWD1 has a source to blend groundwater with to reduce the iron and manganese

levels. The proposed project includes building iron and manganese filtration along with Well 97 so that in the long-term the new groundwater supply will meet the secondary standards even when imported water is not available for blending.

d. How does this project address a current water supply shortage or water quality emergency which significantly endangers a species of concern or a species listed on either the California or Federal Endangered Species Acts?

Not applicable.

12. Community Drought Impacts

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

Persons in the VCWWD1 service area are being asked to reduce water use by at least 25%. Commercial, Industrial, and Institutional customers and Homeowners Associations are being asked to cease irrigation of non-functional turf, unless irrigated with recycled water.

13. Impact on Drought

How will this project alleviate the drought impacts described above?

Currently the shortage "gap" in the VCWWD1 retail area is being met through conservation and the need for conservation will become burdensome without an improved supply situation. Replacement of Well 97 will enable use of approximate 1,936 acre-feet per year of additional groundwater supply (assuming well uptime of 80%). Iron and manganese filtration will ensure this water can be used even in the absence of imported water for blending.

14. Funding Need

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

Without funding, only the replacement Well 97 would take place, the iron and manganese treatment facility would be delayed for five years or more.

15. Partial Award

Can the applicant utilize a partial award if one should be made available? What would the minimum funding needed be to complete the project as proposed?

With reduced funding VCWWD1 could undertake replacement of Well 97, at least \$2.2 million dollars is needed for the replacement well. To complete the project as proposed, funding of \$6,187,660 would be needed.

16. Primary Benefit Value

Please quantify the benefit the project would provide.

1936

17. Primary Benefit Type

Select the primary benefit type of the project.

Please note the GRanTS cannot accommodate the full drop-down menu for benefit types in one menu. The system will show three dropdowns from which applicant should choose one answer.

--Select One--

Water Supply (Ground)

--Select One--

18. Primary Benefit Unit

a. Please select the primary benefit unit of the project.

Acre feet per year

b. If other, please provide primary unit benefit.

19. Secondary Benefit Value

Please quantify the level benefit the project would provide.

20. Secondary Benefit Type

Select the secondary benefit type of the project.

Please note the GRanTS cannot accommodate the full drop-down menu for benefit types in one menu. The system will show three dropdowns from which applicant should choose one answer.

--Select One--

Water Quality

--Select One--

21. Secondary Benefit Unit

a. Please select the secondary benefit unit of the project.

Cubic feet per second

b. If other, please provide secondary unit benefit.

22. Benefit Justification

Please briefly describe how the project will achieve the claimed benefits including how the project benefits an Urban Community. Please include in the explanation information on the timespan of the primary project benefit and how the project will adapt to ensure a public benefit under future climate conditions.

VCWWD1, applicant, is an urban water supplier in compliance with the Urban Water Management Plan Act. A project that benefits the VCWWD1 service area will benefit an Urban Community.

Benefits will be achieved when Well 97 is brought online and provides 1500 GPM groundwater pumping capacity (about 1936 AFY). Well 97 will include a new iron and manganese treatment facility. That will allow Well 97 water to meet the secondary standard for manganese even in the absence of blending water. Well 97 and the filtration facility should provide benefits for at least 50 years.

VCWWD1 is planning to adapt to and mitigate the effects of climate change. VCWWD1 is involved in various efforts to better use local groundwater and reduce demand on the more vulnerable imported water supplies, desalt local groundwater, and to shift demand to recycled water. Replacement of Well 97 with iron and manganese filtration is a necessary step in beneficially using local groundwater. The addition of iron and manganese treatment is a special adaption, it will allow the use of groundwater even if imported water is not available for blending and anticipates future regulation of manganese.

23. Underrepresented Community

Does the project provide a benefit(s) to an Underrepresented Community?

- ☐ a) Yes
☒ b) No

24. Underrepresented Community Benefits

Provide a numeric percentage of the project benefits that go to an Underrepresented Community.

Not applicable.

25. Underrepresented Community Benefit Description

If the project provides a benefit to an Underrepresented Community please describe the benefit, the percentage of project benefit and justification for the benefit level, and how the area meets the definitions of an Underrepresented Community.

Not applicable.

26. Tribe

Does the project provide a benefit(s) to a Tribe?

- ☐ a) Yes
☒ b) No

27. Tribe Percentage

What percentage of the project benefit will go to a Tribe? Provide a numeric percentage of the project benefits to a Tribe.

Not applicable.

28. Tribe Benefit Description

If the project provides a benefit to a Tribe please include the name of the Tribe, the percentage of project benefits directly benefitting the Tribe, and justification for the benefit level.

Not applicable.

29. Climate Change Vulnerabilities

a. Please describe the specific climate change vulnerabilities that will impact the Urban Water Management Plan area. Applicants must cite a reference document which identifies the local area vulnerability (eg. UWMP, climate change analysis, local IRWM, etc.)

The County of Ventura prepared a Climate Change Action Plan (County of Ventura, General Plan Background Report, Appendix B. Climate Action Plan, September 2020) based on the State of California's 4th Climate Assessment Report. Likely affects include:

- Increased average temperatures, with more frequent extreme heat days
- Increase in temperate in summer and fall but cooler Januarys which will drive up water demands in summer and fall and increase risk of crop loss to freeze
- Decrease of 17% annual snowfall in the Los Padres National Forest affecting surface flows to Ventura County rivers and the VCWWD1 service area
- Increased temperatures in the Sierra Nevada with earlier and faster snowmelt, reducing available imported supplies particularly in the summer months.
- Greater wildfire risk throughout Ventura County

A specific look at how climate change and water supplies was undertaken in the June 2019 report Projected Changes in Ventura County Climate, Nina S. Oakley, Benjamin Hatchett, Daniel McEvoy of the Western Regional Climate Center and Lynn Rodriguez of the Watershed's Coalition of Ventura County. This report found:

- Greater number of dry days in the spring and fall but with little change in projected precipitation totals due to greater rainfall intensities. These greater rainfall intensities have implications for how groundwater recharge occurs.
- Implications for both imported water and groundwater supplies, with imported supplies being more vulnerable.

b. Please describe how the project will mitigate the vulnerabilities described in the previous question.

With climate change, the VCWWD1 service area will have less imported supplies coupled with increases in outdoor water use. Groundwater recharge will also be affected, but to a lesser degree. For this reason, VCWWD1 is working to optimize the ability to utilize groundwater resources, such as through the project.

30. Land Acquisition

Is land acquisition or landowner permission required for this project? If so, please briefly describe the status of the acquisition or agreement with the landowner. If the acquisition is not complete or permission not secured at the time of application, please describe the plan to complete it.

No land acquisition is needed for the project, all facilities will be installed on property already owned by VCWWD1.

31. Planning and Tasks

Has planning for this project been completed? Please describe the status of planning and tasks needed for the project.

Evaluation of project feasibility and likely benefits was previously completed by VCWWD1 engineering staff.

32. Design and Tasks

Has design for this project been completed? Please describe the status of design and tasks needed for the project.

Well 97 drilling specifications were released to bid on December 8, 2022. Design for well equipping and the treatment facility has not been initiated.

33. CEQA/NEPA

Are the CEQA (and NEPA if applicable) processes for this project complete? Please briefly describe the CEQA (or NEPA) documents for this project.

VCWWD1 anticipates completing a Categorical Exemption for the project.

34. Permitting

Is permitting for this project complete? Please briefly describe the permits necessary to complete this project.

A well drilling permit will be needed; this permit will be applied for by the selected contractor. Following construction of Well 97 and the iron and manganese filtration facility, VCWWD1 will seek an amendment to the domestic water supply permit.

35. Construction/Implementation Activities

Please describe the necessary activities related to construction/implementation for this project.

Construction will consist of (a) drilling of Well 97, (b) design and equipping of Well 97, and (c) design and construction of iron and manganese treatment facility.

Section : Project Information Tab 5

Project Information Tab 5

1. Project Name

Provide enter the project name.

Expansion of Recycled Water Infrastructure

2. Local Partner Sponsor

Please enter the local partner sponsor name.

Ventura County Waterworks District No. 1 (VCWWD1)

3. Water System Public ID

Please enter Water System Public ID.

5610018

4. Provide project map in a pdf format.

Please be sure to include the URC/DAC/EDA/Tribe area and benefits if claiming a benefit.

Last Uploaded Attachments: Fig_05A_Exp_RecycledWaterInf.pdf

5. Household Benefits

How many households will benefit from this project?

11,100

6. Proposed Project Description

Please briefly describe the proposed project.

The proposed project is the extension of VCWWD1's recycled water distribution system approximately 6,060 feet to serve a large industrial user (cement plant). The new user is expected to utilize at least 77 AFY for cement mixing. The use of recycled water will replace a like amount of potable water.

7. Grant Amount Requested

Enter the amount of funds being requested for the project.

\$3,571,000

8. Other Cost Share

Enter the amount of any other cost share for the project.

\$0

9. Geographical Information

Enter the geographical information for the project location (latitude and longitude in degrees[DD], minutes[MM], and seconds[SS]).

a. Latitude [DD]

b. Latitude [MM]

19

c. Latitude [SS]

20.75

d. Longitude [DD]

-118

e. Longitude [MM]

52

f. Longitude [SS]

58.38

10. County

Enter the County.

Ventura County

11. Emergency Project Evaluation

a. Does this project respond to an existing emergency to humans and/or wildlife? If yes, please answer questions b-d below.

- ☒ a) Yes
- ☐ b) No

b. How does this project address a current water supply shortage which significantly endangers the public health, safety or welfare of a specific community or region?

In the VCWWD1 service area, imported water has historically made up 71% of supplies, groundwater has constituted 20% and recycled water 9%. In 2022 and continuing into the summer of 2023, VCWWD1 anticipates receiving only about 35% of its normal imported supply. This means the VCWWD1 service area will have to undertake significant conservation. VCWWD1 is warning customers in the retail area that without improved supply a move to a Stage 4 Shortage is likely. A Stage 4 Shortage would mean an increase in fines for failure to comply with restriction, prohibitions on certain types of landscape irrigation and limitation on irrigation days.

The proposed project will offset 77 AFY potable water demand (from either imported water or groundwater) through use of recycled water, making this limited supply available for other users.

c. How does this project address a current water quality emergency which significantly endangers the public health, safety or welfare of a specific community or region?

No

d. How does this project address a current water supply shortage or water quality emergency which significantly endangers a species of concern or a species listed on either the California or Federal Endangered Species Acts?

Not applicable.

12. Community Drought Impacts

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

Persons in the VCWWD1 service area are being asked to reduce water use by at least 25%. Commercial, Industrial, and Institutional customers and Homeowners Associations are being asked to cease irrigation of non-functional turf, unless irrigated with recycled water.

13. Impact on Drought

How will this project alleviate the drought impacts described above?

Currently the shortage "gap" in the VCWWD1 retail area is being met through conservation and the need for conservation will become burdensome without an improved supply situation. The Expansion of Recycled Water Infrastructure project will provide a new supply of 77 AFY recycled water and offset demand for a like amount of potable water.

14. Funding Need

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

Without funding, the project will be implemented as Capital Improvement Funds allow, sometime after year 2027. There project schedule would be delayed.

15. Partial Award

Can the applicant utilize a partial award if one should be made available? What would the minimum funding needed be to complete the project as proposed?

No, full award is needed to extend the recycled water to the identified recycled water user. The minimum funding needed is \$1,036,700.

16. Primary Benefit Value

Please quantify the benefit the project would provide.

77

17. Primary Benefit Type

Select the primary benefit type of the project.

Please note the GRanTS cannot accommodate the full drop-down menu for benefit types in one menu. The system will show three dropdowns from which applicant should choose one answer.

--Select One--

Water Supply (recycle)

--Select One--

18. Primary Benefit Unit

a. Please select the primary benefit unit of the project.

Acre feet per year

b. If other, please provide primary unit benefit.

19. Secondary Benefit Value

Please quantify the level benefit the project would provide.

20. Secondary Benefit Type

Select the secondary benefit type of the project.

Please note the GRanTS cannot accommodate the full drop-down menu for benefit types in one menu. The system will show three dropdowns from which applicant should choose one answer.

--Select One--

--Select One--

--Select One--

21. Secondary Benefit Unit

a. Please select the secondary benefit unit of the project.

--Select One--

b. If other, please provide secondary unit benefit.

22. Benefit Justification

Please briefly describe how the project will achieve the claimed benefits including how the project benefits an Urban Community. Please include in the explanation information on the timespan of the primary project benefit and how the project will adapt to ensure a public benefit under future climate conditions.

VCWWD1, project applicant, is an urban water supplier in compliance with the Urban Water Management Plan Act. A project that benefits the VCWWD1 service area will benefit an Urban Community.

Benefits will be achieved when 77 AFY are delivered to the cement plant in-lieu of a like amount of potable water. The project is expected to provide benefits for at least 30 years.

VCWWD1 is proactively planning to adapt to and mitigate the effects of climate change. VCWWD1 is involved in various efforts to better use local groundwater and reduce demand on the more vulnerable imported water supplies, desalt local groundwater, and to shift demand to recycled water. The proposed project, is a necessary step in beneficially using available recycled water to reduce the supply gap.

23. Underrepresented Community

Does the project provide a benefit(s) to an Underrepresented Community?

- ☐ a) Yes
☒ b) No

24. Underrepresented Community Benefits

Provide a numeric percentage of the project benefits that go to an Underrepresented Community.

Not applicable.

25. Underrepresented Community Benefit Description

If the project provides a benefit to an Underrepresented Community please describe the benefit, the percentage of project benefit and justification for the benefit level, and how the area meets the definitions of an Underrepresented Community.

Not applicable.

26. Tribe

Does the project provide a benefit(s) to a Tribe?

- ☐ a) Yes
☒ b) No

27. Tribe Percentage

What percentage of the project benefit will go to a Tribe? Provide a numeric percentage of the project benefits to a Tribe.

Not applicable.

28. Tribe Benefit Description

If the project provides a benefit to a Tribe please include the name of the Tribe, the percentage of project benefits directly benefitting the Tribe, and justification for the benefit level.

Not applicable.

29. Climate Change Vulnerabilities

a. Please describe the specific climate change vulnerabilities that will impact the Urban Water Management Plan area. Applicants must cite a reference document which identifies the local area vulnerability (eg. UWMP, climate change analysis, local IRWM, etc.)

The County of Ventura prepared a Climate Change Action Plan (County of Ventura, General Plan Background Report, Appendix B. Climate Action Plan, September 2020) based on the State of California's 4th Climate Assessment Report. Likely affects include:

- Increased average temperatures, with more frequent extreme heat days
- Increase in temperate in summer and fall but cooler Januarys which will drive up water demands in summer and fall and increase risk of crop loss to freeze
- Decrease of 17% annual snowfall in the Los Padres National Forest affecting surface flows to Ventura County rivers and the VCWWD1 service area
- Increased temperatures in the Sierra Nevada with earlier and faster snowmelt, reducing available imported supplies particularly in the summer months.
- Greater wildfire risk throughout Ventura County

A specific look at how climate change and water supplies was undertaken in the June 2019 report Projected Changes in Ventura County Climate, Nina S.

Oakley, Benjamin Hatchett, Daniel McEvoy of the Western Regional Climate Center and Lynn Rodriguez of the Watershed's Coalition of Ventura County. This report found:

-Greater number of dry days in the spring and fall but with little change in projected precipitation totals due to greater rainfall intensities. These greater rainfall intensities have implications for how groundwater recharge occurs.

-Implications for both imported water and groundwater supplies, with imported supplies being more vulnerable.

b. Please describe how the project will mitigate the vulnerabilities described in the previous question.

With climate change, the VCWWD1 service area will have less imported supplies coupled with increases in outdoor water use. Groundwater recharge will also be affected, but to a lesser degree than imported water. For this reason, VCWWD1 is working to (1) optimize the ability to utilize groundwater resources and (2) expand use of reclaimed water, such as through the Expansion of Recycled Water Infrastructure.

30. Land Acquisition

Is land acquisition or landowner permission required for this project? If so, please briefly describe the status of the acquisition or agreement with the landowner. If the acquisition is not complete or permission not secured at the time of application, please describe the plan to complete it.

VCWWD1 will require approximately 1.5 acres of right-of-way in private roads for the recycled water line.

31. Planning and Tasks

Has planning for this project been completed? Please describe the status of planning and tasks needed for the project.

VCWWD1 engineering and operations staff have evaluated the amount of recycled water use by the cement plant and have confirmed the suitability of recycled water for use at the cement plant.

32. Design and Tasks

Has design for this project been completed? Please describe the status of design and tasks needed for the project.

The project was not included in VCWWD1 Capital Improvement Plan due to budgetary constraints. Design has not yet started.

33. CEQA/NEPA

Are the CEQA (and NEPA if applicable) processes for this project complete? Please briefly describe the CEQA (or NEPA) documents for this project.

VCWWD1 anticipates completing a Mitigated Negative Declaration for the project.

34. Permitting

Is permitting for this project complete? Please briefly describe the permits necessary to complete this project.

The project will require the following permits: (1) Ventura County Road Encroachment Permit, (b) amendment Ventura County Waterworks District No. 1 Master Recycling Permit.

35. Construction/Implementation Activities

Please describe the necessary activities related to construction/implementation for this project.

Construction will consist of: (a) trenching within existing roadways, (b) installing approximately 6066 linear feet of 8" recycled water line, and (c) connection to existing recycled water distribution system.

Section : Project Information Tab 6

Project Information Tab 6

1. Project Name

Provide enter the project name.

Replace Well 2 and Surface Facility Upgrades

2. Local Partner Sponsor

Please enter the local partner sponsor name.

Ventura County Waterworks District 19 (VCWWD19)

3. Water System Public ID

Please enter Water System Public ID.

5610018

4. Provide project map in a pdf format.

Please be sure to include the URC/DAC/EDA/Tribe area and benefits if claiming a benefit.

Last Uploaded Attachments: Fig_06A_RehabWell_2.pdf

5. Household Benefits

How many households will benefit from this project?

476

6. Proposed Project Description

Please briefly describe the proposed project.

The proposed project is the replacement of existing Well 2 and surface facility upgrades at the well site. Filtration system for Iron and Manganese was recently installed at Well 2. Redrilling of Well 2 will improve well capacity from 900 gallons per minute (GPM) to 1500 GPM. The project includes new well drilling, new downhole equipment, new pump, and new motor, followed by demolition/closure of the existing well.

7. Grant Amount Requested

Enter the amount of funds being requested for the project.

\$2,940,000

8. Other Cost Share

Enter the amount of any other cost share for the project.

\$0

9. Geographical Information

Enter the geographical information for the project location (latitude and longitude in degrees[DD], minutes[MM], and seconds[SS]).

a. Latitude [DD]

34

b. Latitude [MM]

16

c. Latitude [SS]

47.82

d. Longitude [DD]

-119

e. Longitude [MM]

00

f. Longitude [SS]

39.64

10. County

Enter the County.

Ventura County

11. Emergency Project Evaluation

a. Does this project respond to an existing emergency to humans and/or wildlife? If yes, please answer questions b-d below.

- ☒ a) Yes
☐ b) No

b. How does this project address a current water supply shortage which significantly endangers the public health, safety or welfare of a specific community or region?

VCWWD19 is warning customers in the retail area that without improved supply a move to a Stage 4 Shortage is likely. A Stage 4 Shortage would mean an increase in fines for failure to comply with restriction, prohibitions on certain types of landscape irrigation and limitation on irrigation days.

The proposed project increases the availability of local groundwater. This means some of the supply needs of the VCWWD19 service area could be met through groundwater.

c. How does this project address a current water quality emergency which significantly endangers the public health, safety or welfare of a specific community or region?

The groundwater basin from which Well 2 will pump does have issues with iron and manganese. Several wells in the area produce water that exceed the secondary Drinking Water Standards. When imported water is available, VCWWD19 has a source to blend groundwater with to reduce the iron and manganese levels. The Well 2 site is already equipped with iron and manganese filters and the proposed project includes redrilling and upgrading facilities to enhance these filters, so that in the long-term the new groundwater supply will meet the secondary standards even when imported water is not available for blending.

d. How does this project address a current water supply shortage or water quality emergency which significantly endangers a species of concern or a species listed on either the California or Federal Endangered Species Acts?

Not applicable.

12. Community Drought Impacts

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

Persons in the VCWWD19 service area are being asked to reduce water use by at least 25%. Commercial, Industrial, and Institutional customers and Homeowners Associations are being asked to cease irrigation of non-functional turf, unless irrigated with recycled water.

13. Impact on Drought

How will this project alleviate the drought impacts described above?

Currently the shortage "gap" in the VCWWD19 retail area is being met through conservation and the need for conservation will become burdensome without an improved supply situation. The Replace Well 2 and Surface Facility Upgrades will restore approximate 600 gallons per minute of pumping capacity, about 774 acre-feet per year of additional groundwater supply (assuming well uptime of 80%).

14. Funding Need

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

Without funding, the project will be implemented as Capital Improvement Funds allow. The project schedule would be delayed.

15. Partial Award

Can the applicant utilize a partial award if one should be made available? What would the minimum funding needed be to complete the project as proposed?

With partial funding VCWWD19 could undertake the Well 2 replacement only. The minimum funding for replacement would be \$1,820,000.

16. Primary Benefit Value

Please quantify the benefit the project would provide.

774

17. Primary Benefit Type

Select the primary benefit type of the project.

Please note the GRanTS cannot accommodate the full drop-down menu for benefit types in one menu. The system will show three dropdowns from which applicant should choose one answer.

--Select One--

Water Supply (Ground)

--Select One--

18. Primary Benefit Unit

a. Please select the primary benefit unit of the project.

Acre feet per year

b. If other, please provide primary unit benefit.

19. Secondary Benefit Value

Please quantify the level benefit the project would provide.

Quality

20. Secondary Benefit Type

Select the secondary benefit type of the project.

Please note the GRanTS cannot accommodate the full drop-down menu for benefit types in one menu. The system will show three dropdowns from which applicant should choose one answer.

--Select One--

Water Quality

--Select One--

21. Secondary Benefit Unit

a. Please select the secondary benefit unit of the project.

Other

b. If other, please provide secondary unit benefit.

Fe + MN removal

22. Benefit Justification

Please briefly describe how the project will achieve the claimed benefits including how the project benefits an Urban Community. Please include in the explanation information on the timespan of the primary project benefit and how the project will adapt to ensure a public benefit under future climate conditions.

The area served by VCWWD19 is part of the Calleguas Municipal Water District service area and is included in that agency's Urban Water Management Plan. A project that benefits the VCWWD19 service area will benefit an Urban Community.

Benefits will be achieved when the new Well 2 produces water at a capacity 600 GPM greater than the current Well 2. VCWWD19 anticipates that the Well 2 will function and provide benefits for at least 50 years.

VCWWD19 is proactively planning to adapt to and mitigate the effects of climate change. VCWWD19 is involved in various efforts to better use local groundwater and reduce demand on the more vulnerable imported water supplies, desalt local groundwater, and to shift demand to recycled water. The proposed project, Well 2, is a necessary step in beneficially using local groundwater.

23. Underrepresented Community

Does the project provide a benefit(s) to an Underrepresented Community?

☐ a) Yes

☒ b) No

24. Underrepresented Community Benefits

Provide a numeric percentage of the project benefits that go to an Underrepresented Community.

Not applicable.

25. Underrepresented Community Benefit Description

If the project provides a benefit to an Underrepresented Community please describe the benefit, the percentage of project benefit and justification for the benefit level, and how the area meets the definitions of an Underrepresented Community.

Not applicable.

26. Tribe

Does the project provide a benefit(s) to a Tribe?

- ☐ a) Yes
☒ b) No

27. Tribe Percentage

What percentage of the project benefit will go to a Tribe? Provide a numeric percentage of the project benefits to a Tribe.

Not applicable.

28. Tribe Benefit Description

If the project provides a benefit to a Tribe please include the name of the Tribe, the percentage of project benefits directly benefitting the Tribe, and justification for the benefit level.

Not applicable.

29. Climate Change Vulnerabilities

a. Please describe the specific climate change vulnerabilities that will impact the Urban Water Management Plan area. Applicants must cite a reference document which identifies the local area vulnerability (eg. UWMP, climate change analysis, local IRWM, etc.)

The County of Ventura prepared a Climate Change Action Plan (County of Ventura, General Plan Background Report, Appendix B. Climate Action Plan, September 2020) based on the State of California's 4th Climate Assessment Report. Likely affects include:

- Increased average temperatures, with more frequent extreme heat days
- Increase in temperate in summer and fall but cooler Januarys which will drive up water demands in summer and fall and increase risk of crop loss to freeze
- Decrease of 17% annual snowfall in the Los Padres National Forest affecting surface flows to Ventura County rivers and the VCWWD1 service area
- Increased temperatures in the Sierra Nevada with earlier and faster snowmelt, reducing available imported supplies particularly in the summer months.
- Greater wildfire risk throughout Ventura County

A specific look at how climate change and water supplies was undertaken in the June 2019 report Projected Changes in Ventura County Climate, Nina S. Oakley, Benjamin Hatchett, Daniel McEvoy of the Western Regional Climate Center and Lynn Rodriguez of the Watershed's Coalition of Ventura County. This report found:

- Greater number of dry days in the spring and fall but with little change in projected precipitation totals due to greater rainfall intensities. These greater rainfall intensities have implications for how groundwater recharge occurs.
- Implications for both imported water and groundwater supplies, with imported supplies being more vulnerable.

b. Please describe how the project will mitigate the vulnerabilities described in the previous question.

With climate change, the VCWWD19 service area will have less imported supplies coupled with increases in outdoor water use. Groundwater recharge will also be affected, but to a lesser degree than imported water. For this reason, VCWWD19 is working to optimize the ability to utilize groundwater resources such as through the Replace Well 2 project.

30. Land Acquisition

Is land acquisition or landowner permission required for this project? If so, please briefly describe the status of the acquisition or agreement with the landowner. If the acquisition is not complete or permission not secured at the time of application, please describe the plan to complete it.

Neither land acquisition nor land agreements are needed for the project.

31. Planning and Tasks

Has planning for this project been completed? Please describe the status of planning and tasks needed for the project.

VCWWD19 engineering and operations staff have evaluated the condition of Well 2 and evaluated the benefits from replacing the well.

32. Design and Tasks

Has design for this project been completed? Please describe the status of design and tasks needed for the project.

The project was not included in VCWWD19 Capital Improvement Plan due to budgetary constraints. Design has not yet started.

33. CEQA/NEPA

Are the CEQA (and NEPA if applicable) processes for this project complete? Please briefly describe the CEQA (or NEPA) documents for this project.

VCWWD19 anticipates completing a Categorical Exemption for the project. All work will occur within the existing well site.

34. Permitting

Is permitting for this project complete? Please briefly describe the permits necessary to complete this project.

The anticipated permits are: (a) well drilling permit to be acquired from the County of Ventura and (b) amendment to the domestic water supply permit.

35. Construction/Implementation Activities

Please describe the necessary activities related to construction/implementation for this project.

Construction will consist of: (a) redrilling well, (b) installing new downhole well equipment, well pump, and motor, (c) destroying the old well, and (d) upgrading surface facilities.

Section : Project Information Tab 7

Project Information Tab 7

1. Project Name

Provide enter the project name.

Rehabilitate Well 4

2. Local Partner Sponsor

Please enter the local partner sponsor name.

Ventura County Waterworks District 19 (VCWWD19)

3. Water System Public ID

Please enter Water System Public ID.

5610018

4. Provide project map in a pdf format.

Please be sure to include the URC/DAC/EDA/Tribe area and benefits if claiming a benefit.

Last Uploaded Attachments: Fig_07A_RehabWell_4.pdf

5. Household Benefits

How many households will benefit from this project?

476

6. Proposed Project Description

Please briefly describe the proposed project.

Well 4 has had dropping water levels as well as severe plugging of the screens. With rehabilitation (resanding existing filters, installing new filter, chemical cleaning of screens, new electrical HP motor and a lowered pump), Well 4 is anticipated to produce 1200 GMP (about 1548 AFY).

7. Grant Amount Requested

Enter the amount of funds being requested for the project.

\$770,000

8. Other Cost Share

Enter the amount of any other cost share for the project.

\$0

9. Geographical Information

Enter the geographical information for the project location (latitude and longitude in degrees[DD], minutes[MM], and seconds[SS]).

a. Latitude [DD]

34

b. Latitude [MM]

17

c. Latitude [SS]

00.06

d. Longitude [DD]

-118

e. Longitude [MM]

57

f. Longitude [SS]

31.93

10. County

Enter the County.

Ventura County

11. Emergency Project Evaluation

a. Does this project respond to an existing emergency to humans and/or wildlife? If yes, please answer questions b-d below.

- ☒ a) Yes
☐ b) No

b. How does this project address a current water supply shortage which significantly endangers the public health, safety or welfare of a specific community or region?

VCWWD19 is warning customers in the retail area that without improved supply a move to a Stage 4 Shortage is likely. A Stage 4 Shortage would mean an increase in fines for failure to comply with restriction, prohibitions on certain types of landscape irrigation and limitation on irrigation days.

The proposed project increases the availability of local groundwater. This means some of the supply needs of the VCWWD19 service area could be met through groundwater.

c. How does this project address a current water quality emergency which significantly endangers the public health, safety or welfare of a specific community or region?

The groundwater basin from which Well 4 will pump does have issues with iron and manganese. Several wells in the area produce water that exceed the secondary Drinking Water Standards. When imported water is available, VCWWD19 has a source to blend groundwater with to reduce the iron and manganese levels. The Well 4 site is already equipped with iron and manganese filters and the proposed project includes resanding these filters and new filter installation. In this way, VCWWD19 will be able to deliver groundwater without the need for blending with scarce imported water.

d. How does this project address a current water supply shortage or water quality emergency which significantly endangers a species of concern or a species listed on either the California or Federal Endangered Species Acts?

Not applicable.

12. Community Drought Impacts

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

Persons in the VCWWD19 service area are being asked to reduce water use by at least 25%. Commercial, Industrial, and Institutional customers and Homeowners Associations are being asked to cease irrigation of non-functional turf, unless irrigated with recycled water.

13. Impact on Drought

How will this project alleviate the drought impacts described above?

Currently the shortage “gap” in the VCWWD19 retail area is being met through conservation and the need for conservation will become burdensome without an improved supply situation. Rehabilitation Well 4 project will enable use of approximate 400 acre-feet per year of additional groundwater supply (assuming well uptime of 80%).

14. Funding Need

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

Without funding, the project will be implemented as Capital Improvement Funds for the retail area allow. The project schedule would be delayed.

15. Partial Award

Can the applicant utilize a partial award if one should be made available? What would the minimum funding needed be to complete the project as proposed?

No. In order for the well to function at capacity the full project must take place. Minimum funding is \$364,000.

16. Primary Benefit Value

Please quantify the benefit the project would provide.

400

17. Primary Benefit Type

Select the primary benefit type of the project.

Please note the GGrANTS cannot accommodate the full drop-down menu for benefit types in one menu. The system will show three dropdowns from which applicant should choose one answer.

--Select One--

Water Supply (Ground)

--Select One--

18. Primary Benefit Unit

a. Please select the primary benefit unit of the project.

Acre feet per year

b. If other, please provide primary unit benefit.

19. Secondary Benefit Value

Please quantify the level benefit the project would provide.

Quality

20. Secondary Benefit Type

Select the secondary benefit type of the project.

Please note the GRanTS cannot accommodate the full drop-down menu for benefit types in one menu. The system will show three dropdowns from which applicant should choose one answer.

--Select One--

Water Quality

--Select One--

21. Secondary Benefit Unit

a. Please select the secondary benefit unit of the project.

Other

b. If other, please provide secondary unit benefit.

Improved order

22. Benefit Justification

Please briefly describe how the project will achieve the claimed benefits including how the project benefits an Urban Community. Please include in the explanation information on the timespan of the primary project benefit and how the project will adapt to ensure a public benefit under future climate conditions.

The area served by VCWWD19 is part of the Calleguas Municipal Water District service area and is included in that agency's Urban Water Management Plan. A project that benefits the VCWWD19 service area will benefit an Urban Community.

Benefits will be achieved when the improved Well 4 produces water. VCWWD19 anticipates that the improved Well 4 will function and provide benefits for at least 30 years.

VCWWD19 is proactively planning to adapt to and mitigate the effects of climate change. VCWWD19 is involved in various efforts to better use local groundwater and reduce demand on the more vulnerable imported water supplies, desalt local groundwater, and to shift demand to recycled water. The proposed project, Rehabilitation Well 4, is a necessary step in beneficially using local groundwater.

23. Underrepresented Community

Does the project provide a benefit(s) to an Underrepresented Community?

☐ a) Yes

☒ b) No

24. Underrepresented Community Benefits

Provide a numeric percentage of the project benefits that go to an Underrepresented Community.

Not applicable.

25. Underrepresented Community Benefit Description

If the project provides a benefit to an Underrepresented Community please describe the benefit, the percentage of project benefit and justification for the benefit level, and how the area meets the definitions of an Underrepresented Community.

Not applicable.

26. Tribe

Does the project provide a benefit(s) to a Tribe?

☐ a) Yes

☒ b) No

27. Tribe Percentage

What percentage of the project benefit will go to a Tribe? Provide a numeric percentage of the project benefits to a Tribe.

Not applicable.

28. Tribe Benefit Description

If the project provides a benefit to a Tribe please include the name of the Tribe, the percentage of project benefits directly benefitting the Tribe, and justification for the benefit level.

Not applicable.

29. Climate Change Vulnerabilities

a. Please describe the specific climate change vulnerabilities that will impact the Urban Water Management Plan area. Applicants must cite a reference document which identifies the local area vulnerability (eg. UWMP, climate change analysis, local IRWM, etc.)

The County of Ventura prepared a Climate Change Action Plan (County of Ventura, General Plan Background Report, Appendix B. Climate Action Plan, September 2020) based on the State of California's 4th Climate Assessment Report. Likely affects include:

- Increased average temperatures, with more frequent extreme heat days
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- Decrease of 17% annual snowfall in the Los Padres National Forest affecting surface flows to Ventura County rivers and the VCWWD1 service area
- Increased temperatures in the Sierra Nevada with earlier and faster snowmelt, reducing available imported supplies particularly in the summer months.
- Greater wildfire risk throughout Ventura County

A specific look at how climate change and water supplies was undertaken in the June 2019 report Projected Changes in Ventura County Climate, Nina S. Oakley, Benjamin Hatchett, Daniel McEvoy of the Western Regional Climate Center and Lynn Rodriguez of the Watershed's Coalition of Ventura County. This report found:

- Greater number of dry days in the spring and fall but with little change in projected precipitation totals due to greater rainfall intensities. These greater rainfall intensities have implications for how groundwater recharge occurs.
- Implications for both imported water and groundwater supplies, with imported supplies being more vulnerable.

b. Please describe how the project will mitigate the vulnerabilities described in the previous question.

With climate change, the VCWWD19 service area will have less imported supplies coupled with increases in outdoor water use. Groundwater recharge will also be affected, but to a lesser degree. For this reason, VCWWD19 is working to optimize the ability to utilize groundwater resources, such as through the Rehabilitation Well 4 project.

30. Land Acquisition

Is land acquisition or landowner permission required for this project? If so, please briefly describe the status of the acquisition or agreement with the landowner. If the acquisition is not complete or permission not secured at the time of application, please describe the plan to complete it.

Neither land acquisition nor land agreements are needed for the project.

31. Planning and Tasks

Has planning for this project been completed? Please describe the status of planning and tasks needed for the project.

VCWWD19 engineering and operations staff have evaluated the condition of Well 4 and evaluated the benefits from rehabilitation the well.

32. Design and Tasks

Has design for this project been completed? Please describe the status of design and tasks needed for the project.

The project was not included in VCWWD19 Capital Improvement Plan due to budgetary constraints. Design has not yet started.

33. CEQA/NEPA

Are the CEQA (and NEPA if applicable) processes for this project complete? Please briefly describe the CEQA (or NEPA) documents for this project.

VCWWD19 anticipates completing a Categorical Exemption for the project. All work will occur within the existing well site.

34. Permitting

Is permitting for this project complete? Please briefly describe the permits necessary to complete this project.

No permits are needed for the project.

35. Construction/Implementation Activities

Please describe the necessary activities related to construction/implementation for this project.

Construction will consist of: (a) resanding existing filters, (b) installing new filter, (c) chemical cleaning of screens, (d) new electrical HP motor, (e) installation of a new lowered pump, and (f) installation of new filter.