

UPPER FEATHER RIVER IRWM

PROJECT INFORMATION FORM

Please submit by 5:00 p.m. on August 3, 2015, to UFR.contact@gmail.com

Please provide information in the tables below:

I. PROJECT PROPONENT INFORMATION

| Agency / Organization | Sierra Valley Resource Conservation District (SVRCD) |
|------------------------------------|--|
| Name of Primary Contact | Jeff Carmichael – SVRCD Board of Directors |
| Name of Secondary Contact | Bill Nunes – SVRCD Board of Directors |
| Mailing Address | PO Box 3562, Quincy CA 95971 |
| E-mail | sierravalleyrcd@gmail.com or jc.18520@gmail.com |
| Phone | (530) 514-4936 |
| Other Cooperating Agencies / | County of Sierra, County of Plumas, and Sierra Valley Mutual |
| Organizations / Stakeholders | Water Company, U.S. Forest Service |
| Is your agency/organization | Yes |
| committed to the project through | |
| completion? If not, please explain | |

II. GENERAL PROJECT INFORMATION

| Project Title | ALS-6: Sierra Valley Ag. Water Diversion Efficiency, | | | |
|--|--|--|--|--|
| | Improvement | | | |
| Project Category | Agricultural Land Stewardship Floodplains/Meadows/Waterbodies Municipal Services Tribal Advisory Committee | | | |
| | ☐ Uplands/Forest | | | |
| Project Description (Briefly describe the project, in 300 words or less) | The Sierra Valley Water Company operates and maintains a diversion dam and conveyance channel allowing water from the Little Truckee River to be diverted under specific conditions and during a specific season into the Feather River watershed (Sierra Valley). The proposed project is a feasibility study in support of a mechanism for conduit to be installed from the diversion dam for approximately 2.5 miles to significantly increase agricultural water use efficiency and to restore the watercourse ecosystem from Little Truckee Summit to Onion Valley. This project will significantly reduce water loss from the conveyance channel due to seepage and remove significant erosive conditions and sediment loading that is evident along the route of the diversion ditch into Sierra Valley. Current losses are approximately 25% of the water diverted. This project will prevent further scouring and deepening of the channel that is presently over fifteen (15) feet in depth to the watercourse; stop erosion and sedimentation that is annually contributing to a significant impact into the downstream ecosystem and meadows; and make significant contributions to improving water quality. The | | | |

| | efficiencies in delivery of agricultural water to Sierra Valley under the 1870 water right will also be significantly improved. This is a phased project beginning with the feasibility study. If proven feasibility, phase 2 will include CEQA, and phase 3 implementation. |
|--|--|
| Project Location Description (e.g., along the south bank of stream/river between river miles or miles from Towns/intersection and/or address): | T19N R14E Sections 11, 14 & 15 |
| Latitude: | 39.49262/39.50815 |
| Longitude: | -120.30105/-120.285420 |

III. APPLICABLE IRWM PLAN OBJECTIVES ADDRESSED

For each of the objectives addressed by the project, provide a one to two sentence description of how the project contributes to attaining the objective and how the project outcomes will be quantified. If the project does not address *any* of the IRWM plan objectives, provide a one to two sentence description of how the project relates to a challenge or opportunity of the Region.

| | Will the | | Quantification |
|---------------------------------------|-------------|------------------------------------|------------------|
| | | | (e.g. acres of |
| I I I I I I I I I I I I I I I I I I I | project | District and a series of a series. | streams/wetlands |
| Upper Feather River IRWM | address the | Brief explanation of project | restored or |
| Objectives: | objective? | linkage to selected Objective | enhanced) |
| Restore natural hydrologic | Yes | Reduce/eliminate erosion, down | Sediment Load |
| functions. | | cutting and sedimentation of | |
| | □ N/A | existing channel and ultimately | |
| | | Feather River System | |
| Reduce potential for | | | |
| catastrophic wildland fires in | ☐ Yes | | |
| the Region. | | | |
| | ■ N/A | | |
| Build communication and | | There is an opportunity to | Public Meetings |
| collaboration among water | Yes | enhance and further partnership | and Partnerships |
| resources stakeholders in the | | capacity with the Sierra Valley | |
| Region. | □ N/A | RCD, Sierra Valley Mutual Water | |
| | | Company, U.S. Forest Service, | |
| | | and representatives of the IRWM | |
| Work with DWR to develop | | | |
| strategies and actions for the | ☐ Yes | | |
| management, operation, and | | | |
| control of SWP facilities in the | ■ N/A | | |
| Upper Feather River Watershed | | | |
| in order to increase water | | | |
| supply, recreational, and | | | |
| environmental benefits to the | | | |
| Region. | | | |

| | Will the | | Quantification (e.g. acres of |
|--|-----------------|---|--------------------------------------|
| | project | | streams/wetlands |
| Upper Feather River IRWM | address the | Brief explanation of project | restored or |
| Objectives: | objective? | linkage to selected Objective | enhanced) |
| Encourage municipal service | | | |
| providers to participate in | ☐ Yes | | |
| regional water management actions that improve water | ■ N/A | | |
| supply and water quality. | ■ N/A | | |
| Continue to actively engage in | | | |
| FERC relicensing of | ☐ Yes | | |
| hydroelectric facilities in the | | | |
| Region. | ■ N/A | | |
| Address economic challenges of | | | |
| municipal service providers to | ☐ Yes | | |
| serve customers. | - 21/2 | | |
| Directors and sales - | ■ N/A | The project will restore | Agree of viscovice |
| Protect, restore, and enhance the quality of surface and | Yes | The project will restore ecological function of the | Acres of riparian habitat and stream |
| groundwater resources for all | □ N/A | riparian and stream system(s) | miles restored |
| beneficial uses, consistent with | L 1 1 // | Tiparian and stream system(s) | Times restored |
| the RWQC Basin Plan. | | | |
| Address water resources and | ☐ Yes | | |
| wastewater needs of DACs and | | | |
| Native Americans. | ■ N/A | | |
| Coordinate management of | ☐ Yes | | |
| recharge areas and protect | | | |
| groundwater resources. | N/A | | 5 111 44 |
| Improve coordination of land use and water resources | Yes | There is an opportunity to | Public Meetings |
| planning. | □ N/A | enhance and further partnership capacity with the Sierra Valley | and Partnerships |
| planning. | I IN/A | RCD, Sierra Valley Mutual Water | |
| | | Company, U.S. Forest Service, | |
| | | and representatives of the IRWM | |
| Maximize agricultural, | Yes | Implementation of the project | Acre Feet delivered |
| environmental and municipal | | will eliminate historic seepage | to Sierra Valley |
| water use efficiency. | □ N/A | and water delivery loss | |
| Effectively address climate | Yes | To improve its resiliency to | Acre Feet delivered |
| change adaptation and/or | □ N1/A | climate change, this project will | to Sierra Valley |
| mitigation in water resources | □ N/A | replace an unlined ditch subject to approximately 25% water | |
| management. | | losses with a pipeline that is | |
| | | expected to result in water losses | |
| | | of less than approximately 5%. | |
| | | This allows the Sierra Valley | |
| | | Mutual Water Company to | |
| | | maintain their current level of | |
| | | service to customers with a | |

| | 14/:II 4h a | | Quantification |
|------------------------------------|---------------------|--|---------------------------------|
| | Will the | | (e.g. acres of streams/wetlands |
| Upper Feather River IRWM | project address the | Brief explanation of project | restored or |
| Objectives: | objective? | linkage to selected Objective | enhanced) |
| Objectives. | objective: | decrease in consumptive water | cinianecaj |
| | | use. Reducing consumptive | |
| | | water use improves resiliency to | |
| | | climate change variability, the | |
| | | effects of which may decrease | |
| | | availability of surface water | |
| | | through decrease in snowpack | |
| | | and increase in flash | |
| | | precipitation events. | |
| Improve efficiency and | Yes | This project will replace an | Acre Feet delivered |
| reliability of water supply and | | unlined ditch subject to | to Sierra Valley. |
| other water-related | □ N/A | approximately 25% water losses | Reduce losses from |
| infrastructure. | | (from leaks and evaporation) | ~25% to 5%. |
| | | with a pipeline that is expected to result in water losses of less | |
| | | than approximately 5%. This will | |
| | | improve efficiency of water | |
| | | delivery/use by ensuring the final | |
| | | delivery of a higher percentage | |
| | | of diverted water. | |
| Enhance public awareness and | Yes | There is an opportunity to | Public Meetings |
| understanding of water | | enhance and further partnership | and Partnerships |
| management issues and needs. | □ N/A | capacity with the Sierra Valley | |
| | | RCD, Sierra Valley Mutual Water | |
| | | Company, U.S. Forest Service, | |
| | — ,, | and representatives of the IRWM | |
| Address economic challenges of | Yes | More efficient delivery of water | Acre Feet delivered |
| agricultural producers. | □ N/A | will result in more consistent and | to Sierra Valley |
| | LI N/A | greater production of forage and agricultural crops. This level of | |
| | | increased flow is critical for | |
| | | sustainability during drought | |
| | | years. | |
| Work with counties/ | Yes | Current and demonstrated | Partnership with |
| communities/groups to make | | capacity exists with the Sierra | Sierra County and |
| sure staff capacity exists for | □ N/A | Valley RCD and Sierra County | Sierra Valley RCD |
| actual administration and | | | |
| implementation of grant | | | |
| funding. | | | |
| If no objectives are addressed, de | escribe how the | e project relates to a challenge or op | portunity for the |
| Region: | | | |

| Region. | | | |
|---------|--|--|--|
| | | | |
| | | | |

IV. PROJECT IMPACTS AND BENEFITS

Please provide a summary of the expected project benefits and impacts in the table below or check N/A if not applicable; **do no leave a blank cell.** Note that DWR encourages multi-benefit projects.

| If a | If applicable, describe benefits or impacts of the project with respect to: | | | | |
|------|---|-------|--|--|--|
| a. | Native American Tribal Communities | N/A | | | |
| b. | Disadvantaged Communities ¹ | ■ N/A | Sierraville (Sierra County) is a designated disadvantaged community and the project is located within this community. This project alone, however, does not address a critical water resource need for the community. | | |
| c. | Environmental Justice ² | N/A | | | |
| d. | Drought Preparedness | □ N/A | The project will replace an unlined ditch subject to approximately 25% water losses with a pipeline that is expected to result in water losses of less than approximately 5%. | | |
| e. | Assist the region in adapting to effects of climate change ³ | □ N/A | To improve its resiliency to climate change, this project will replace an unlined ditch subject to approximately 25% water losses with a pipeline that is expected to result in water losses of less than approximately 5%. This allows the SVMWC to maintain their current level of service to customers with a decrease in consumptive water use. Reducing consumptive water use improves resiliency to climate change variability, the effects of which may decrease availability of surface water through decrease in snowpack and increase in flash precipitation events. | | |
| f. | Generation or reduction of greenhouse gas emissions (e.g. green technology) | □ N/A | This project is a feasibility study and therefore will not impact GHG. However, construction-related GHG emissions reduction strategies will be considered in the design stage of project development. | | |
| g. | Other expected impacts or benefits that are not already mentioned elsewhere | ■ N/A | h an amanal madian hanahald (MIII) | | |

¹ A Disadvantaged Community is defined as a community with an annual median household (MHI) income that is less than 80 percent of the Statewide annual MHI. DWR's DAC mapping is available on the UFR website (http://featherriver.org/maps/).

² Environmental Justice is defined as the fair treatment of people of all races, cultures, and incomes with respect to the development, adoption, implementation and enforcement of environmental laws, regulations and policies. An example of environmental justice benefit would be to improve conditions (e.g. water supply, flooding, sanitation) in an area of racial minorities.

³ Climate change effects are likely to include increased flooding, extended drought, and associated

| secondary | effects su | ch as increas | ed wildfire risk | erosion | , and sedimentation. |
|-----------|-------------|------------------|--------------------|-------------|----------------------|
| 3CCOHUAN | , enects su | cii as ilici cas | cu wiiuiii e i isk | , בו טאוטוו | , and scumentation. |

DWR encourages multiple benefit projects which address one or more of the following elements (PRC §75026(a). Indicate which elements are addressed by your project.

| a. | Water supply reliability, water | Yes | g. | Drinking water treatment and | ☐ Yes |
|----|-------------------------------------|-------|----|----------------------------------|-------|
| | conservation, water use efficiency | □ N/A | | distribution | N/A |
| b. | Stormwater capture, storage, clean- | ☐ Yes | h. | Watershed protection and | Yes |
| | up, treatment, management | ■ N/A | | management | □ N/A |
| c. | Removal of invasive non-native | Yes | i. | Contaminant and salt removal | ☐ Yes |
| | species, creation/enhancement of | □ N/A | | through reclamation/desalting, | N/A |
| | wetlands, | | | other treatment technologies and | |
| | acquisition/protection/restoration | | | conveyance of recycled water for | |
| | of open space and watershed lands | | | distribution to users | |
| d. | Non-point source pollution | Yes | j. | Planning and implementation of | ☐ Yes |
| | reduction, management and | □ N/A | | multipurpose flood management | N/A |
| | monitoring | | | programs | |
| e. | Groundwater recharge and | ☐ Yes | k. | Ecosystem and fisheries | Yes |
| | management projects | ■ N/A | | restoration and protection | □ N/A |
| f. | Water banking, exchange, | Yes | | | |
| | reclamation, and improvement of | □ N/A | | | |
| | water quality | | | | |

V. RESOURCE MANAGEMENT STRATEGIES

For each resource management strategy (RMS) employed by the project, provide a one to two sentence description in the table below of how the project incorporates the strategy. A description of the RMS can be found in Volume 2 of the 2013 California Water Plan (http://featherriver.org/2013-california-water-plan-update/).

| | Will the Project incorporate | Description of how RMS to be employed, |
|---------------------------------------|------------------------------|--|
| Resource Management Strategy | RMS? | if applicable |
| Reduce Water Demand | | |
| Agricultural Water Use Efficiency | ■ Yes □ No | Increase water use efficiency through a decrease in water losses in the Ditch that supplies water for agricultural use. |
| Urban water use efficiency | ☐ Yes ■ No | |
| Improve Flood Management | | |
| Flood management | ☐ Yes ■ No | |
| Improve Operational Efficiency and Tr | ransfers | |
| Conveyance – regional/local | ■ Yes □ No | Increase water use efficiency through a decrease in water losses in the Ditch that supplies water for agricultural use and down stream flows |
| System reoperation | ☐ Yes ■ No | |
| Water transfers | ☐ Yes ■ No | |
| Increase Water Supply | | |
| Conjunctive management | Yes No | Reduction in lost surface water from the |

| | | ley rig. Water Diversion Emelency, improvement |
|---|-----------------------------------|---|
| Resource Management Strategy | Will the Project incorporate RMS? | Description of how RMS to be employed, if applicable |
| | | diversion will likely translate to less |
| | | groundwater pumping for irrigation on fields |
| | | served by both sources, i.e., will allow for |
| | | improved conjunctive management by |
| | | irrigators. |
| Precipitation Enhancement | Yes No | |
| Municipal recycled water | Yes No | |
| Surface storage – regional/local | Yes No | |
| Improve Water Quality | | |
| Drinking water treatment and distribution | ☐ Yes ■ No | |
| Groundwater remediation/aquifer remediation | ☐ Yes ■ No | |
| Matching water quality to water use | Yes No | |
| Pollution prevention | | Reduce/eliminate erosion, down cutting and |
| , | Yes No | sedimentation of existing channel and |
| | | ultimately Feather River System |
| Salt and salinity management | ☐ Yes ■ No | |
| Urban storm water runoff | | |
| management | ☐ Yes ■ No | |
| | | |
| Practice Resource Stewardship | | |
| Agricultural land stewardship | | Reduce/eliminate erosion, current turbidity |
| | Yes No | levels and increase efficiency of water |
| | 163 🗀 110 | received to agricultural users. |
| | | |
| Ecosystem restoration | | The project will restore ecological function of |
| | | the riparian, stream system(s) and aquatic |
| | Yes No | biota |
| | | |
| Forest management | Yes No | |
| Forest management | ☐ res ■ NO | Project will adhere to CEOA/NEDA and Siarra |
| Land use planning and management | | Project will adhere to CEQA/NEPA and Sierra County Land Use Planning. Project under |
| | | feasibility study involves the orderly and |
| | Yes No | planned use of water resources, with a view |
| | | to securing the physical and economic well- |
| | | being of rural communities and producers. |
| Recharge area protection | ☐ Yes ■ No | Senia of ratal communities and producers. |
| Sediment management | | Reduce/eliminate erosion, current turbidity |
| | Yes No | levels and increase efficiency of water |
| | | received to agricultural users. |
| Watershed management | | Reduce/eliminate erosion, current turbidity |
| | — v. | levels and increase efficiency of water |
| | Yes No | received to agricultural users. |
| | | |

| Resource Management Strategy | Will the Project incorporate RMS? | Description of how RMS to be employed, if applicable |
|-------------------------------------|-----------------------------------|---|
| People and Water | | эрричин |
| Economic incentives | ☐ Yes ■ No | |
| Outreach and engagement | ■ Yes □ No | There is an opportunity to enhance and further partnership capacity with the Sierra Valley RCD, Sierra Valley Mutual Water Company, U.S. Forest Service, and representatives of the IRWM as well as through public scoping. |
| Water and culture | ☐ Yes ■ No | · · · · · |
| Water-dependent recreation | ■ Yes □ No | Project will increase flows and aquatic biota – increased angling opportunities |
| Wastewater/NPDES | ☐ Yes ■ No | |
| Other RMS addressed and explanation | n: | |

VI. PROJECT COST AND FINANCING

Please provide any estimates of project cost, sources of funding, and operation and maintenance costs, as well as the source of the project cost in the table below.

| | | PROJECT BUDGE | Т | | |
|----|--|------------------------------|--|---|------------|
| | oject serves a need of a DAC?: Yes anding Match Waiver request?: Yes | | | | |
| | Category | Requested Grant Amount | Cost Share: Non-State Fund Source* (Funding Match) | Cost Share: Other State Fund Source* | Total Cost |
| a. | Direct Project Administration | \$15,000 | 0 | 0 | \$15,000 |
| b. | Land Purchase/Easement | 0 | 0 | 0 | 0 |
| c. | Planning/Design/Engineering / Environmental | \$135,000 | 0 | 0 | \$135,000 |
| d. | Construction/Implementation | 0 | 0 | 0 | |
| e. | Environmental Compliance/ Mitigation/Enhancement | 0 | 0 | 0 | 0 |
| f. | Construction Administration | 0 | 0 | 0 | 0 |
| g. | Other Costs | 0 | 0 | 0 | 0 |
| h. | Construction/Implementation Contingency | 0 | 0 | 0 | 0 |
| i. | Grand Total (Sum rows (a) through (h) for each column) | \$150,000 | 0 | 0 | \$150,000 |

| j. | Can the Project be phased? Yes | ☐ No If yes , pr | ovide cost breakdo | own by phases | |
|------|---|---|--|--|--|
| | | Project Cost | O&M Cost | Description of Phase | |
| | Phase 1 | \$150,000 | 0 | Feasibility Study/Analysis | |
| | Phase 2 | \$250,000 | 0 | CEQA/NEPA | |
| | Phase 3 | \$1,800,000 | 0 | Project Construction & | |
| | | | | Implementation | |
| | Phase 4 | | | | |
| k. | Explain how operation and maintenan | ce costs will be | Project O&M wo | uld be financed by Sierra Valley | |
| | financed for the 20-year planning peri- | od for project | | ompany. All current | |
| | implementation (not grant funded). | | | ts of existing conveyance | |
| | | | • | nplished by Sierra Valley Mutual | |
| | | | Water System | | |
| I. | Has a Cost/Benefit analysis been comp | ☐ Yes ■ No (cost-benefit will be addressed in | | | |
| | | | feasibility study) | | |
| m. | Describe what impact there may be if | the project is | Continuation of approximately 25% water losses | | |
| | not funded (300 words or less) | | _ | restock producers in Sierra | |
| | | | | project funding, there will be a | |
| | | | higher level of impacts to groundwater during | | |
| | | | • | hrough well development and | |
| | | | | dwater usage. In addition, the | |
| | | | | em is dated 1870 and will efficiency at a higher rate in the | |
| | | | | I action is not taken in the | |
| | | | | There is also potential for | |
| | | | | ophic failure of the ditch if not | |
| | | | • | would likely cause substantial | |
| | | | | oss of irrigation for the | |
| | | | | season, erosion and | |
| | | | | eased cost to repair, as well as | |
| | | | environmental da | • | |
| *Lis | t all sources of funding. | | | ∵ | |
| | te: See Project Development Manual, Ex | khibit B, for assist | ance in completing | g this table | |
| | tn://featherriver.org/documents/) | , | , , | | |

VIII. **PROJECT STATUS AND SCHEDULE**

Please provide a status of the project, level of completion as well as a description of the activities planned for each project stage. If unknown, enter **TBD**.

| Project Stage | Check the Current Project Stage | Completed? | Description of Activities in Each Project Stage | Planned/ Actual Start Date (mm/yr) | Planned/ Actual Completion Date (mm/yr) |
|---------------------------------|--|------------------------|---|--|---|
| a. Assessment and Evaluation | | ☐ Yes ■ No ☐ N/A | ., | 11/01/2015 | 10/31/2016 |
| b. Final Design | | ☐ Yes ☐ No ■ N/A | | Pending Assessment Completion | |

| c. Environmental Documentation (CEQA / NEPA) | | ☐ Yes ■ No ☐ N/A | Pending Assessment Completion |
|---|--|------------------|-------------------------------|
| d. Permitting | | ☐ Yes ☐ No ☐ N/A | Pending Assessment Completion |
| e. Construction Contracting | | ☐ Yes ■ No □ N/A | Pending Assessment Completion |
| f. Construction Implementation | | ☐ Yes ■ No ☐ N/A | Pending Assessment Completion |
| Provide explanation if more than one project stage is checked as current status | | | |

IX. PROJECT TECHNICAL FEASIBILITY

Please provide any related documents (date, title, author, and page numbers) that describe and confirm the technical feasibility of the project. See www.featherriver.org/catalog/index.php for documents gathered on the UFR Region.

| a. | List the adopted planning documents the proposed | TROA EIR/EIS and the Truckee River |
|----|--|--|
| ~. | project is consistent with or supported by (e.g. General | Operating Agreement; Settlement |
| | Plans, UWMPs, GWMPs, Water Master Plan, Habitat | Agreement by and between SPPCo, |
| | Conservation Plans, TMDLs, Basin Plans, etc.). | Washoe County Water Conservation |
| | Conscivation Flans, Tivibes, Basin Flans, etc., | District, Sierra Valley Water Company; |
| | | Water Quality Plan for the Lahontan |
| | | Region; California DWR Bulletin 118 and |
| | | the Northeastern Counties |
| | | |
| | | Investigation. Sierra Valley |
| | | Groundwater Management District- |
| | | Management Plan and annual updates; |
| | | the DWP Environmental Study for Sierra |
| | | Valley dated 1973; the Upper Feather |
| | | River Watershed (UFRW) Irrigation |
| | | Discharge Management Program dated |
| - | | 2007 |
| b. | List technical reports and studies supporting the | Numerous studies and reports have |
| | feasibility of this project. | been prepared and published regarding |
| | | the Sierra Valley and the importance of |
| | | the 1870 water right and inter-basin |
| | | transfer of water. While no reports |
| | | exist that propose a conduit or pipeline |
| | | project for the first 2.5 miles of the |
| | | diversion ditch, these reports, without |
| | | exception, stress the importance of the |
| | | diversion of agricultural water to the |
| | | Sierra Valley as being critical for |

sustaining agricultural operations, preserving habitat and wildlife and bird species that exist in the headwaters of the Feather River at Sierra Valley, and the need to make improvements to watercourse conditions to avoid further erosion, channel scour and deepening, and sediment loading. Such studies include but are not limited to the Sierra Valley Groundwater Management District-Management Plan and annual updates; the DWP Environmental Study for Sierra Valley dated 1973; the Upper Feather River Watershed (UFRW) Irrigation Discharge Management Program dated 2007; History of Water – Eastern Sierra Nevada-Recovery and Protection-UC Berkeley Study on the Long Term Diversion of the Little Truckee; TROA EIR/EIS and the Truckee River Operating Agreement; Settlement Agreement by and between SPPCo, Washoe County Water Conservation District, Sierra Valley Water Company; Water Quality Plan for the Lahontan Region; California DWR Bulletin 118 and the Northeastern Counties Investigation; SCS Reports for Sierra Valley; and Biological Baseline Analysis for the Sierra Valley Marsh prepared by SF State University Field Campus. The proposed feasibility study will provide additional specific data illustrating the need and benefits of the proposed project.

c. Concisely describe the scientific basis (e.g. how much research has been conducted) of the proposed project in 300 words or less.

The methodology proposed by lining an existing water conveyance system that is currently an earthen ditch via a pipe or by concrete is a time-tested and valid approach to reduce/eliminate water loss by seepage. This project will replace an unlined ditch subject to approximately 25% water losses with a pipeline that is expected to result in water losses of less than approximately 5%.

Under phase one, the Sierra Valley Resource Conservation District will

| | retain a qualified team of consultants with demonstrated experience and success in agricultural water conveyances and watercourse restoration dynamics to outline options to convey the water in an efficient and environmentally sensitive manner. The project will be a "gravity flow" project without any need for pumping or other intrusive features along the existing watercourse. The goal of the project at completion will be for the length of approximately 2.5 miles to be contained in a conveyance conduit so that little to no surface evidence be in existence and the degradation that has occurred over the last decades by scouring and channel erosion be eliminated in entirety and fully restored. Reports needed and prepared will be site analyses and mapping, alternative project scopes (including no project alternative), design and engineering | | | |
|---|--|--|--|--|
| | options for the feasible alternatives identified complete with alignment options and cost estimates. | | | |
| d. Does the project implement green technology (e.g. alternate forms of energy, recycled materials, LID techniques, etc.). | Yes No N/A If yes, please describe. Construction-related green technology strategies will be considered in the design stage of project development. | | | |
| e. Are you an Urban Water Supplier ¹ ? | ☐ Yes ■ No ☐ N/A | | | |
| f. Are you are an Agricultural Water Supplier ² ? | ■ Yes □ No □ N/A | | | |
| | Sierra Valley Mutual Water Company | | | |
| g. Is the project related to groundwater? | Yes ■ No □ N/A | | | |
| | If yes, please indicate which groundwater basin. | | | |
| ¹ Urban Water Supplier is defined as a supplier, either publicly | | | | |
| municipal purposes either directly or indirectly to more than 3,000 customers or supplying more than | | | | |
| 3,000 acre-feet of water annually. ² Agricultural Water Supplier is defined as a water supplier, either publicly or privately owned, providing | | | | |
| water to 10,000 or more irrigated acres, excluding the acreage that receives recycled water. | | | | |

Climate Change – Project Assessment Checklist

This climate change project assessment tool allows project applicants and the planning team to assess project consistency with Proposition 84 plan standards and RWMG plan assessment standards. The tool is a written checklist that asks GHG emissions and adaptation/resiliency questions.

Name of project: <u>ALS-6: Sierra Valley Agricultural Water Diversion Efficiency & Improvement</u>

Project applicant: Sierra Valley Resource Conservation District

| GHG Emissions Assessment |
|--|
| Project Construction Emissions (If you check any of the boxes, please see the attached worksheet) |
| The project requires nonroad or off-road engines, equipment, or vehicles to complete. The project requires materials to be transported to the project site. The project requires workers to commute to the project site. The project is expected to generate GHG emissions for other reasons. The project does not have a construction phase and/or is not expected to generate GHG emissions during the construction phase. |
| Operating Emissions (If you check any of the boxes, please see the attached worksheet) |
| ☐ The project requires energy to operate. ☐ The project will generate electricity. ☐ The project will proactively manage forests to reduce wildfire risk. |
| The project will affect wetland acreage. The project will include new trees. Project operations are expected to generate or reduce GHG emissions for other reasons. |

Adaptation & Resiliency Assessment

| Project is a Feasibility Study only. No construction or Greenhouse Gas emissions associated with this project. |
|---|
| Flooding Describe how the project makes the watershed (more/less) resilient to one or more of the following high priority flooding vulnerability issues: |
| Not applicable ☐ Aging critical flood protection ☐ Wildfires ☐ Critical infrastructure in a floodplain ☐ Insufficient flood control facilities Project is a Feasibility Study only. No construction or Greenhouse Gas emissions associated with this project. |
| Ecosystem and Habitat Describe how the project makes the watershed (more/less) resilient to one or more of the following high priority ecosystem and habitat vulnerability issues: |
| Not applicable ☐ Climate-sensitive fauna or flora ☐ Recreation and economic activity ☐ Quantified environmental flow requirements ☐ Erosion and sedimentation ☐ Endangered or threatened species ☐ Fragmented habitat Project is a Feasibility Study only. No construction or Greenhouse Gas emissions associated with this project. |
| Hydropower Describe how the project makes the watershed (more/less) resilient to one or more of the following high priority hydropower vulnerability issues: Not applicable Reduced hydropower output |
| Project is a Feasibility Study only. No construction or Greenhouse Gas emissions associated with this project. |