WaterSMART Grants:
Small-Scale Water Efficiency Projects

Notice of Funding Opportunity No. R22AS00195

PROPOSAL

2023 Upper Canal Reliability Project

Applicant:

Georgetown Divide Public Utility District
6425 Main Street
Georgetown, CA 95634

GDPUD

Project Manager:

Adam Coyan, General Manager
Georgetown Divide Public Utility District
6425 Main Street
Georgetown, CA 95634
gm@gd-pud.org
(530) 333-4356

April 22, 2022

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TECHNICAL PROPOSAL AND EVALUATION CRITERIA

(1) Executive Summary

Name of Project

Date:	April 22, 2022
Applicant:	Georgetown Divide Public Utility District
City, County, State:	Georgetown, El Dorado County, California

Applicant Type

The Georgetown Divide Public Utility District (GDPUD) is a Category A applicant with water delivery authority under the eligibility criteria set forth by Public Law 111-11, Section 9502 for this WaterSMART Small-Scale Water Efficiency Projects Grant. GDPUD is an urban water supplier formed under the authority of the California Public Utility District Act, Government Code Sections 15501, et seq. on June 4, 1946. Section 16461 of the Public Utilities Code of California authorizes GDPUD to construct, finance, maintain, and operate a water system in El Dorado County, California.

Proposal Summary

GDPUD is located in the west slope of the Sierra Nevada foothills in El Dorado County, California. GDPUD owns and operates a surface reservoir, canals, water treatment facilities and water distribution systems to provide water services to its customers. Currently, approximately 70 percent of GDPUD's 75 miles of conveyance is unlined canal which correlates to an estimated loss of around 3,600 acre-feet per year. GDPUD's annual average water loss is nearly 40 percent of the raw water system yield over the last 20 years.

The proposed 2022 Upper Canal Reliability Project (UCRP) will include concrete lining for a total of 1,500 feet of water canals near Volcanoville Road, Sierra Pacific Industries (SPI) Crossing, and Below Structure #2 located in the remote portion of GDPUD's service area. These areas were identified in GDPUD's Capital Improvement Plan (CIP) 2019/2020 to 2023/2024 as areas with significant water loss in need of lining to improve GDPUD's water supply reliability. By implementing the UCRP, GDPUD will improve water efficiency by eliminating canal scouring, seepage loss, and vegetation growth in these upper sections of the canal, thus improving overall water supply reliability for its customers.

Estimated Duration and Completion Date

The construction for the UCRP is scheduled to begin in March 2023 and continue through April 2023. Prior to March 2023, GDPUD plans to procure an engineering contractor to complete the design and environmental review prior to the construction. GDPUD intends to complete the construction prior to the irrigation season that occurs annually between May 1 to September 30 when the canal is under constant use. If it is not possible for any reason to perform construction in Spring 2023, the construction period will be from October 2023 through December 2023. Please refer to **Evaluation Criterion C** for a more detailed project schedule.

Reclamation Facilities Addressed by the Project

The concrete-lining of water canals is not located on a Federal facility. It will be implemented on portions of the canal owned and operated by the GDPUD near Volcanoville Road, SPI Crossing, and Below Structure #2.

(2) Project Location

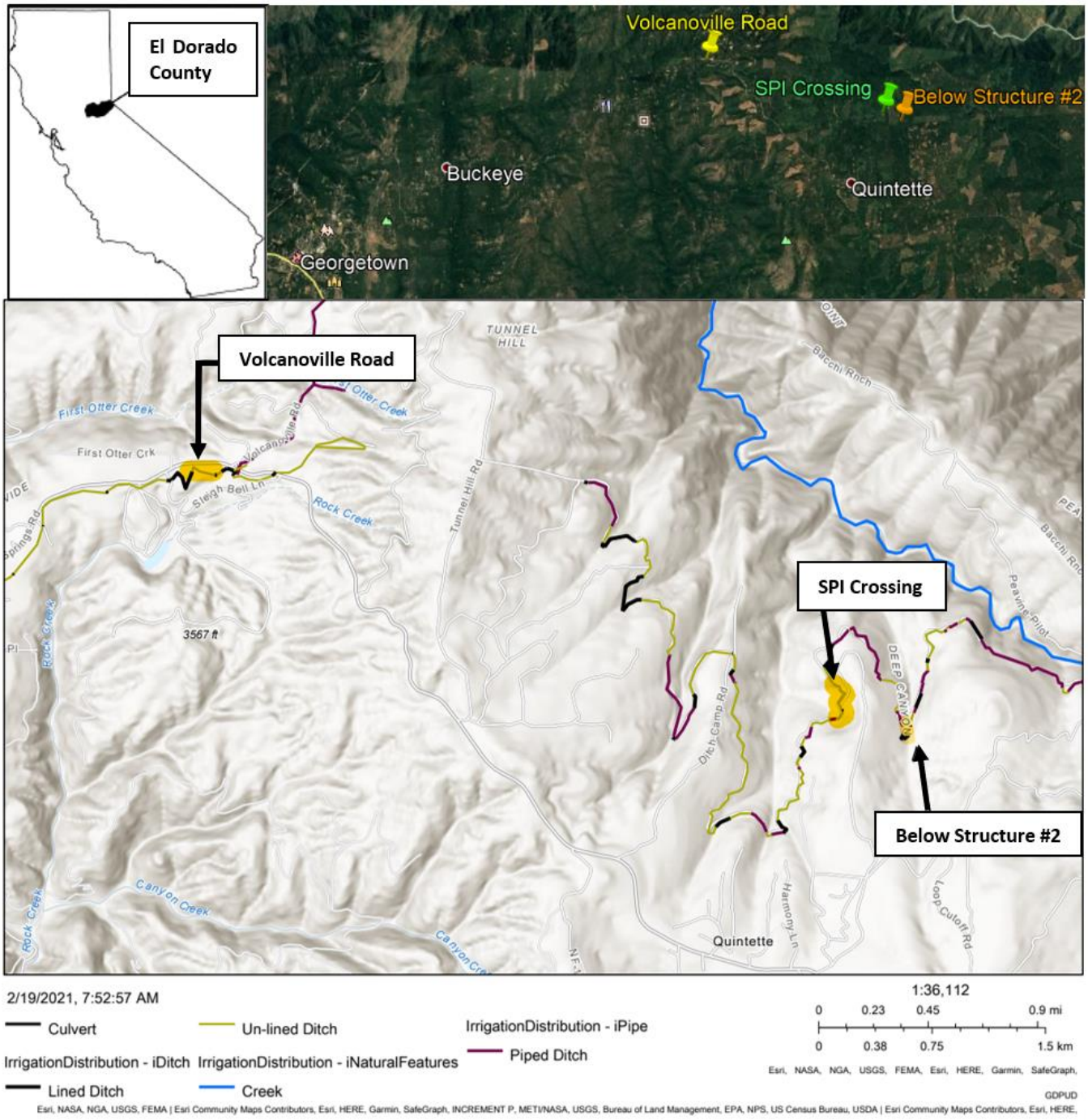
The UCRP will line three segments of GDPUD's canals within the GDPUD service area in El Dorado County, California near the communities of Georgetown and Quintette. The GDPUD service area straddles a ridge which separates the drainage basin of the Middle Fork American River and the Rubicon River (tributary to the American River) on the north from that of the South Fork American River on the south. GDPUD's headquarters is located on the west slope of the Sierra Nevada foothills, approximately 45 miles northeast of Sacramento, California.

The three canal segments identified by GDPUD under the UCRP have canal cross-sections with very steep slopes. Each section has water surfacing down-slope of the canal and is showing signs of leakage. Due to the nature of the issues observed at the three segment locations identified by GDPUD, these three segments were selected and prioritized as they are chronic areas with significant leaks, and GDPUD cannot identify a specific source of leaks. As such, lining these entire unlined segments are the most viable way to address the water leakage issue thereby improving efficiency and reliability. These segments are located exclusively within maintained canal right-of-way owned and operated by GDPUD and have no adjacent property owners except for Sierra Pacific Industries (SPI). These segments are described in further detail below:

- The Volcanoville Road lining is located approximately 7 miles northeast of Georgetown, California and 3 miles northwest of Quintette, California. The proposed project area is a 700 linear feet portion of the canal that runs west between Wentworth Springs Road and Volcanoville Road, see **Figure 1**. The latitude and longitude of this lining segment are 38.943552 and -120.723892, respectively.

- The SPI Crossing lining is located approximately 1 mile northeast of Quintette, California. The proposed project area is a 600 linear feet portion of the canal that runs north alongside Georgetown Water Supply Road, see **Figure 1**. The latitude and longitude of this lining segment are 38.929590 and -120.676423, respectively.

- The Below Structure #2 lining is located approximately 1 mile north-east of Quintette, California. The proposed project area is a 100 linear feet portion of the canal that runs north alongside Georgetown Water Supply Road, see **Figure 1**. The latitude and longitude of this lining segment are 38.927528 and -120.671500, respectively.



Source: Google Earth; Georgetown Divide Public Utility District
Key: GDPUD = Georgetown Divide Public Utility District; SPI = Sierra Pacific Industries; UCRP = Upper Canal Reliability Project
Note: The yellow highlighted canal segments are the three canal segments identified by GDPUD under the UCRP.

Figure 1. Geographic Location of 2023 Upper Canal Reliability Project

(3) Technical Project Description

The UCRP will line 1,500 feet of canal over three segments of GDPUD's Main Canal. The UCRP is one of many projects under GDPUD's Annual Canal Lining Project to reduce water loss and improve long-term water supply reliability. As stated above, these areas addressed by the UCRP were identified in GDPUD's CIP 2019/2020 to 2023/2024 as areas needing lining based on an analysis of performance, conditions, and capacity.

These segments of canal near Volcanoville Road, SPI Crossing, and Below Structure #2 are characterized by very steep slopes. Along each segment water is surfacing down-slope of the canal. Previous mitigation efforts (i.e., sandbags and bentonite seal) have been unsuccessful. To stop the canal from scouring and potential catastrophic failure, and to reduce water losses, a concrete lining will be applied to the earthen canal under the proposed UCRP. Major activities include canal contouring, placement of concrete reinforcement material, concrete installation, and finishing work.

The materials and equipment needed include concrete reinforcing material, concrete, concrete mixing and pumping equipment, and other concrete equipment. The anticipated construction related features are summarized in the table below:

Construction Feature	**Description**
Mobilization	GDPUD will perform project mobilization. Supplies will be brought to locations as needed.
Access	Proposed construction areas are generally accessible.
Site Preparation	It is planned that site preparation will include canal contouring. The project work will use GDPUD's equipment to clear vegetation and sediment from the existing conveyance canal in the project area identified in the **Project Location.**
Lining Installation	A concrete pumping subcontractor will be used to pump concrete at the desired locations and GDPUD staff will complete the concrete finishing work. The concrete will be placed at grade and stabilized with concrete reinforcement wire for structural support.
Restoration/Revegetation	Upon completion, distributed areas anti-scouring measures including hydroseeding, straw waddles and mulching will be applied to minimize scouring.
De-mobilization	GDPUD will restore the central staging area and remove any equipment.

Implementation of the UCRP will also require non-construction efforts prior to and throughout the construction period. These include grant administration services, environmental documentation and processing, design/bid documentation preparation for the environmental compliance, and construction administration.

Surveying for the project will include GPS (Geographical Positioning System) locating and staking of the reaches slated for construction. GDPUD will provide typical cross-sections for each segment. GDPUD maps will be used to show limits of work, staging areas and any parcels requiring temporary construction easements. No easements and no Federal, State, or local permitting will be required for the UCRP as it is located exclusively within maintained canal right-of-way owned and operated by GDPUD. Additionally, no engineering or design work is needed because the project is a modernization of the existing infrastructure to improve efficiency and effectiveness of water distribution. A bid is not needed for the concrete pumping subcontractor as GDPUD already has agreements with a local concrete plant and pumper that is paid a daily rate.

A Project Manager will be assigned to administer the contract documents and to provide adequate inspection services to assure adherence to the construction documents and to monitor schedule and progress payments. The Project Manager will report to GDPUD's General Manager on the progress of the project and on payment requests. A Field Superintendent will oversee the daily construction activities at the work site and be responsible for the scheduling of field staff and delivery of equipment and materials. The Field Superintendent will provide updates to the Project Manager on the progress of the project and any concerns/issues. The field staff will perform the construction activities as directed by the Field Superintendent.

(4) Evaluation Criteria

Evaluation Criterion A — Project Benefits

Much of the raw water infrastructure within GDPUD's service area originates from the gold mining era that took place during the California Gold Rush in the mid-1800s. As such, it includes many unlined canals which are known to have high water losses and uncertain reliability as they are subject to scouring and failures. The portions of the canal in the UCRP were constructed in the 1950s. The UCRP will modernize the aging infrastructure by updating the inefficient and unreliable canals in the three segments identified under **Project Location** to conserve and use water more efficiently and improve water supply reliability.

At a local level, GDPUD estimates a total loss around 3,600 acre-feet per year from its approximately 50 miles of unlined conveyance canals. GDPUD's annual average water loss is nearly 40 percent of the entire water system operations over the last 20 years. Using average water loss per mile in calculation, concrete lining these 1,500 feet (approximately 0.29 miles) of canals is anticipated to conserve about 20 acre-feet per year. However, as previously mentioned, these segments were prioritized for their significance and thus, the anticipated water savings could be more. The resulting water loss reduction will improve GDPUD's water availability and its stewardship for natural resource management.

UCRP implementation will increase GDPUD's water supply reliability by reducing unnecessary water loss in raw water facilities. An increase in water supply reliability will support GDPUD in meeting its current and future agricultural and municipal and industrial (M&I) water demands. It will also increase their level of drought protection during dry years because GDPUD will have greater access to their water supplies as a result of reducing water losses in their conveyance system. Additionally, the majority of the existing infrastructure is subject to substantial scouring and is known to be unstable and subject to canal failure. Concrete lining the canals will eliminate these threats, thus improving water supply reliability and protecting water quality.

At a regional (basin) level, implementation of the UCRP will contribute to improvement of downstream river conditions and environmental conditions throughout the American River Watershed. The American River Watershed originates at the crest of the Sierra Nevada near Lake Tahoe and extends about 30 miles westward to the American River confluence with the Sacramento River near downtown Sacramento. In about the center of the watershed is the Federal facility, Folsom Dam and Reservoir, which is owned and operated by the U.S. Department of the Interior, Bureau of Reclamation (Reclamation). The UCRP will line canal segments upstream of Folsom Dam and Reservoir. Once the anticipated project benefits are accumulated in Folsom Dam and Reservoir, it would allow for additional resource and flexibilities for Reclamation to operate Folsom Dam and Reservoir for all authorized Central Valley Project (CVP) purposes including water supply, water quality, fishery species protection, power generation, and recreation. Refer for **Evaluation Criterion D** for additional details on downstream benefits as it relates to Reclamation.

The UCRP is consistent with State legislation and countywide plans, and GDPUD will continue to actively collaborate with other public water agencies and water entities for improved water management. GDPUD is a progressive water agency determined to find ways to implement new legislation and increase water supply reliability. UCRP will support the implementation of Senate Bill (SB) 606 (Hertzberg) and Assembly Bill (AB) 1668 (Friedman), which are geared towards establishing a new foundation for long-term improvements in water conservation and drought planning to adapt to climate change and the resulting longer and more intense droughts in California. Implementation of the UCRP to conserve water supports a primary goal of *Using Water More Wisely* that focuses on reducing water losses. Additionally, GDPUD is part of the Upper American River Basin Regional Drought Contingency Plan and is committed to help with implementing drought response actions to increase drought protection at a regional level in collaboration with El Dorado Water Agency (Agency), the County of El Dorado, and other local public water agencies (i.e., El Dorado Irrigation District (EID) and Grizzly Flats Community Services District). For example, lining of a portion of

GDPUD's canals will conserve water supplies in the region thus leaving more water available to other water users in El Dorado County during drought conditions.

Evaluation Criterion B — Planning Efforts Supporting the Project

The UCRP is supported by various planning efforts throughout the region. Below describes four planning efforts, the needs identified in them, how the UCRP supports those needs, and how the UCRP was determined a priority:

- **2020 Georgetown Divide Public Utility District Urban Water Management Plan (GDPUD UWMP):** GDPUD has a UWMP that is updated every 5 years to support long-term water resource planning to ensure adequate water supplies are available to meet existing and future water needs within GDPUD's service area. To increase water supply reliability and meet existing and future water needs, the 2020 GDPUD UWMP has identified the necessity of lining segments in open canals to reduce water loss and improve water use efficiency. The UCRP is such a canal lining project. It will reduce water losses and increase infrastructure stability by lining canals at the locations specified under **Project Location**. The UCRP was identified as a priority project by GDPUD because it supports GDPUD's water conservation program to reduce water conveyance losses.

- **Capital Improvement Plan (CIP) 2019/2020 to 2023/2024:** GDPUD's five-year CIP is a multi-year planning instrument that guides the construction of new facilities/infrastructure; and for the expansion, rehabilitation, or replacement of existing GDPUD assets. The five-year CIP is developed as an investment plan for the prioritization of projects. GDPUD's current CIP includes the Annual Canal Lining Project to reduce raw water conveyance losses to meet water conservation requirements, increase system stability, and protect water quality. The three locations under the UCRP are specified as priorities in the Annual Canal Lining Project as they address the significant water losses along their raw water system and improve the overall infrastructure integrity and safety.

- **Cosumnes, American, Bear, Yuba (CABY) Integrated Regional Water Management Plan (IRWMP) 2021 Update:** The CABY IRWMP is a planning document that identifies broadly supported goals, objectives, strategies, actions, and projects within the Cosumnes, American, Bear, and Yuba regions to address long-term water supply needs, protection of water quality, and enhancement of environmental and habitat resources. The CABY IRWMP identifies conservation as an important practice in this region and states that canal lining is one of its resource management strategies to increase water use efficiency and improve water quality. Furthermore, the CABY IRWMP project list includes GDPUD canal reliability improvement projects which stabilize existing earthen, unlined canals. This is consistent with the UCRP which will line canals to increase water delivery reliability to GDPUD customers, water efficiency, and improve water quality conditions. This project was one of about 50 projects selected for funding based on CABY IRWMP's project prioritization which looks at factors such as consistency with IRWMP programmatic goals, whether it has an integrated approach, and its ability to adequately address climate change.

- **Upper American River Basin Regional Drought Contingency Plan (UARB RDCP):** The UARB RDCP, is a collaborative project under the Reclamation WaterSMART program among public water agencies and stakeholders of the Upper American River Watershed and a portion of the Cosumnes River watershed in El Dorado County. This plan is under development and addresses drought-related risks to build resiliency. GDPUD is part of the Executive Committee that is responsible for providing input on the regional opportunities and integration throughout preparation of the UARB RDCP. Canal lining, including the UCRP, is identified as a mitigation action that will help improve drought resiliency within the planning area of the UARB RDCP. Initial prioritization of the UARB RDCP mitigation actions identifies this project as a high priority project. Prioritization considers a projects' ability to improve/promote drought resiliency, long-term durability, regional efficiency,

water equity, and environmental sustainability.

Evaluation Criterion C — Project Implementation

The project will follow the tasks as detailed in the **Technical Project Description**. To ensure the successful execution of the proposed activities under the UCRP, GDPUD plans to acquire support from qualified professional consultants as later described in **Project Budget**. The proposed tasks will be completed within the required two-year timeframe as shown in **Figure 2** below.

If awarded, GDPUD has the following plan for executing the UCRP upon entering into a financial assistance agreement with Reclamation. Assuming a grant award and execution of January 2023, GDPUD will schedule the contractors and procure the material that same month. As previously mentioned, this project does not require a lengthy design and permitting process. The UCRP is located exclusively within maintained canal right-of -way owned and operated by GDPUD. Therefore, no easements and no Federal, State, or local permitting will be required for the UCRP. As the project is a modernization of the existing infrastructure by updating the inefficient and unreliable canals in the three locations specified above, engineering or design work is not needed to support the implementation of the UCRP.

During January to March 2023, GDPUD will complete the environmental and cultural resources compliance. It is anticipated that lining of the canals will be covered under a negative declaration based on similar canal lining projects and because this project supports operation and maintenance of GDPUD's conveyance system. It is not anticipated that there will be issues with the environmental and cultural resources compliance as GDPUD has recently completed environmental within three months for another similar project. From March 2023 to April 30, 2023, GDPUD will prepare, commence, and complete lining of the three identified segments.

Note that the assumed start date of January 2023 will vary pending award of the grant but will still meet the two-year timeframe requirements of this grant. GDPUD intends to complete the construction prior to the irrigation season from May 1 to September 30 when the canal is under constant use. If it is not possible for any reason to perform construction in Spring 2023, the construction period will be from October 2023 through December 2023.

No new policies or administration actions are required to implement the project. Implementing the UCRP aligns with GDPUD's 2015 Urban Water Management Plan (UWMP) goals to support long-term water resource planning to ensure adequate water supplies are available to meet existing and future water needs. GDPUD is focused on reducing conveyance system losses through lining portions of the unlined open canal sections. The UCRP will reduce seepage losses, conserve water, increase the stability of the system, and decrease outages within GDPUD's existing water conveyance system. Therefore, the UCRP is consistent with existing policy found in the GDPUD UWMP.

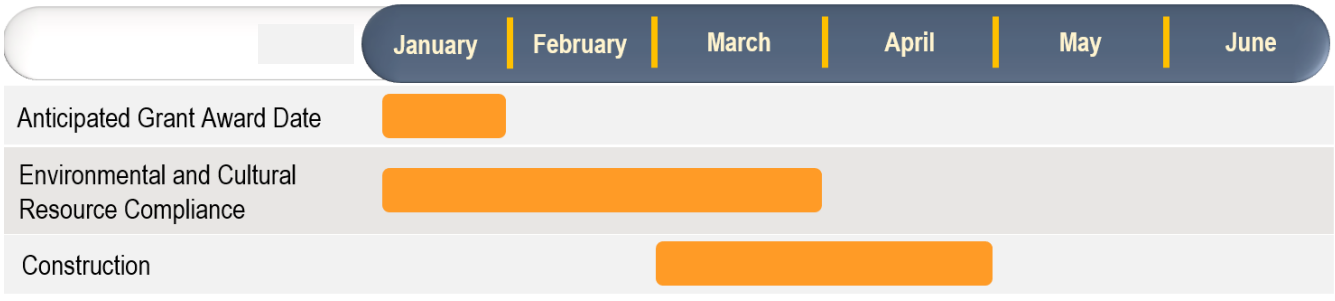


Figure 2. Proposed Implementation Schedule

Evaluation Criterion D — Nexus to Reclamation

GDPUD owns water rights from the American River for its use. It is also one of beneficiaries of the Agency's CVP water service contract with Reclamation. The Agency, located in El Dorado County California, reached an agreement with Reclamation for 15,000 acre-feet of water in 2019, otherwise referred to as Fazio water. The 15,000 acre-feet is taken annually from Folsom Dam and Reservoir or from an exchange on the American River upstream from Folsom Dam and Reservoir. Fazio water allows for the diversion of CVP M&I water. The Agency has the master contract with Reclamation and subcontracts 7,500 acre-feet to the EID and 7,500 acre-feet to GDPUD. To execute the contract with Reclamation, water use efficiency is a condition that must be met by the subcontractors. The UCRP implementation aligns with Reclamation's conditions for GDPUD to access Fazio water since the UCRP will reduce water losses and increase water use efficiency.

The UCRP is not on Reclamation project lands or involving Reclamation facilities. The UCRP is not anticipated to provide benefits to any tribes in El Dorado County.

As described above the UCRP is located in the American River Watershed. In this same basin, the Federal facility, Folsom Dam and Reservoir is located. Folsom Dam and Reservoir is a critical piece of the CVP's American River Division, it is located downstream from the confluence of the North and South forks of the American River. Reclamation stores and conveys CVP contract water supplies and water right diversions to many local water agencies through the Folsom facilities. The total contract quantity for all CVP American River Division water service contracts is 180,750 acre-feet per year. As an integrated feature of the CVP, Folsom Dam and Reservoir also serves a critical role in managing water quality in the Sacramento-San Joaquin Delta (Delta) and management of Federally listed species in the Lower American River. As the nearest CVP facility to the Delta and with its superior water quality, Folsom Dam and Reservoir provides a rapid response to Delta outflow and water quality needs.

Efficient water use upstream of Folsom Dam and Reservoir, where the UCRP is located, will generate benefits to downstream Folsom Dam and Reservoir operations. Water savings from the UCRP will correlate to fewer diversions and thereby more water moving downstream to the Federal facility, Folsom Dam and Reservoir. Through the operation of Folsom Dam and Reservoir, the project benefits would expand to the remaining CVP facility downstream in the Delta and south of the Delta for all authorized purposes of the CVP.

PROJECT BUDGET

(1) Funding Plan and Letters of Commitment

GDPUD's cost sharing responsibility will be generated from the capital reserve fund between fiscal years 2022/2023. As described previously, the District is acting as the Applicant for WaterSMART funding. As summarized in **Tables 1 through 3**, the source of non-Federal funds will be the District and El Dorado Water Agency. All non-Federal funds will be through direct participation and other in-kind contributions. All local-cost share funding has been approved and letters of funding commitment are included in **Appendix B**.

(2) Budget Proposal

The tables below provide budget proposal details.

Table 1. Total Project Cost

SOURCE	AMOUNT
Costs to be reimbursed with the requested Federal funding	$ 79,515.60
Costs to be paid by the applicant (GDPUD)	$ 106,384.40
Value of third-party contributions	$ 12,889
TOTAL PROJECT COST	**$ 198,789**

Table 2. Summary of Non-Federal and Federal Funding Sources

FUNDING SOURCE	AMOUNT
Non-Federal Entities	
El Dorado Water Agency	$ 12,889
TOTAL	**$ 12,889**

Table 3. Budget Proposal

BUDGET ITEM DESCRIPTION	COMPUTATION		QUANTITY TYPE	TOTAL COST
	$/Unit	Quantity		
Salaries and Wages				**$ 39,621.00**
Field Staff	$ 50.00	Hour	480	$ 24,000.00
Field Superintendent	$ 75.00	Hour	80	$ 6,000.00
Project Manager	$ 125.00	Hour	30	$ 3,750.00
Executive Director, EDWA	$ 96.15	Hour	40	$ 3,846.00
Financial Analyst, EDWA	$ 57.75	Hour	100	$ 5,775.00
Fringe Benefits				**$ 3,268.00**
Executive Director, EDWA	$ 21.02	Hour	40	$ 841.00
Financial Analyst, EDWA	$ 24.27	Hour	100	$ 2,427.00
Travel				**$ -**
Not applicable for this project.				
Equipment				**$ -**
Not applicable for this project.				

Supplies and Materials				**$ 75,500.00**
Concrete	$ 250.00	Yard	260	$ 65,000.00
Wire	$ 7.00	Feet	1500	$ 10,500.00
Contractual/Construction				**$ 63,500.00**
Concrete Pumping Contractor	$ 25,000.00	Lump	1	$ 25,000.00
Environmental Consultant	$ 38,500.00	Lump	1	$ 38,500.00
Other				**$ 16,000.00**
Contingency				$ 16,000.00
TOTAL DIRECT COSTS				**$ 197,889.00**
Indirect Costs				
Not applicable for this project.				
TOTAL PROJECT COSTS				**$ 197,889.00**

Table 4. Concrete Pumping Contractor Cost Details

Description	Quantity	Unit	Unit Price	Cost
Pump Services	260	yard	96.15	$ 25,000
Total				**$ 25,000**

Table 5. Environmental Consultant Contractor Cost Details

Description	Quantity	Unit	Unit Price	Cost
Environmental Assessment and Finding of No Significant Impact (EA/FONSI)	1	each	28,000	$ 28,000
Responses to Comments and Final FONSI	1	each	7,000	$ 7,000
Project Management	1	each	3,500	$ 3,500
Total				**$ 38,500**

(3) Budget Narrative

This section describes the items included in the above budget proposal in more detail.

Salaries and Wages

The Project Manager will be Adam Brown, the Operations Manager at GDPUD. The Field Staff and Field Superintendent will be staffed by additional GDPUD staff personnel, including the General Manager and administrative staff. Salaries, wages, and proposed hours are calculated in **Table 3** above. The budget proposal represents the actual labor rates of the identified personnel and are consistently applied to Federal and non-Federal activities. Financial reports and interim reports will be completed annually throughout the duration of the project and one final performance report will be completed detailing the completion of the proposed project.

Fringe Benefits

Fringe benefits for El Dorado Water Agency full time permanent employees and their families include medical insurance, vision insurance, dental insurance, PERS retirement contributions, workers compensation, and a limited

life insurance policy in some instances. The value of hourly fringe benefit will vary by the employee. The actual calculation for the hourly fringe benefit rate for each assigned employee is shown in the detail in **Table 3** above.

Travel

Not applicable to this project.

Equipment

Not applicable to this project. The project work will use GDPUD's equipment to clear vegetation and sediment from the existing conveyance canal in the project area.

Materials and Supplies

The UCRP will line the canal segments using concrete. Concrete will be placed at grade and stabilized with concrete reinforcement wire for structural support.

Contractual

Implementation of the UCRP will be completed by two contractors. Both contractors will be brought on board following the procurement policies in place by GDPUD and consistent with the requirements in this Notice of Funding Opportunity. A concrete pumping subcontractor will be used to pump concrete at the desired locations and GDPUD staff will complete the concrete finishing work. A concrete pumping contractor will be selected through a competitive request for bid (RFB) document by GDPUD. A separate consultant will be similarly procured to complete environmental and cultural resources compliance. Refer to **Tables 4 and 5** for detailed contractual tasks and associated costs.

Third-Party In-Kind Contributions

There are no third-party in-kind contributions identified for this project at this time.

Environmental and Regulatory Compliance Costs

Environmental and regulatory compliance cost includes a biological resources evaluation, cultural resources evaluation, and CEQA/NEPA. Significant effort by Reclamation is not anticipated therefore costs for Reclamation review are not included.

Other Expenses

A small contingency less than 10 percent is included to cover any unexpected costs during the construction process. This contingency was included to ensure that GDPUD would have sufficient funds to contribute to fully implement the UCRP. If this expense is not realized, GDPUD will still meet the minimum 50 percent cost-share requirements (refer to **Tables 1 and 3** for applicant share and contingency costs, respectively).

Indirect Costs

There are no assumed indirect costs for the project.

Total Costs

The total cost for the project activities proposed under UCRP is $197,889.

ENVIRONMENTAL AND CULTURAL RESOURCES COMPLIANCE

It is anticipated that the UCRP will not affect environmental or cultural resources.

Will the proposed Project impact the surrounding environment (e.g., soil [dust], air, water [quality and quantity], animal habitat)? Please briefly describe all earth-disturbing work and any work that will affect the air, water, or animal habitat in the project area. Please also explain the impacts of such work on the surrounding environment and any steps that could be taken to minimize the impacts.

It is anticipated that the UCRP will not have a direct impact on the surrounding environment. The UCRP will be completed along the upper canal which is remote with no adjacent property owners with the exception of the Sierra Pacific Industries. To confirm that there will be no impacts to the surrounding environment, an environmental review by GDPUD will be completed before the execution of any work.

Are you aware of any species listed or proposed to be listed as a Federal threatened or endangered species, or designated critical habitat in the area? If so, would they be affected by any activities associated with the proposed Project?

Within the UCRP there are no species listed or proposed to be listed as a Federal threatened or endangered species, or designated critical habitat in the area.

Are there wetlands or other surface waters inside the Project boundaries that potentially fall under Clean Water Act (CWA) jurisdiction as "Waters of the United States?" If so, please describe and estimate any impacts the proposed project may have.

Within the UCRP, there are no wetlands or surface waters that fall under Clean Water Act (CWA) jurisdiction as "Waters of the United States."

When was the water delivery system constructed?

Much of the infrastructure found within GDPUD's service area originates from the gold mining era that took place during the California Gold Rush in the mid-1800s. As such, it includes many unlined canals, which are known to have high water losses and uncertain reliability as they are subject to scouring and failures. The irrigation canals, water diversions and distribution systems were gradually developed since early 1900s throughout the 20th Century for water supply. The portions of the canal in the UCRP were constructed in the 1950s.

Will the proposed project result in any modification of or effects to, individual features of an irrigation system (e.g., headgates, canals, or flumes)? If so, state when those features were constructed and describe the nature and timing of any extensive alterations or modifications to those features completed previously.

The UCRP will concrete-line a total of 1,500 feet of water canals near Volcanoville Road, SPI Crossing, and Below Structure #2 located in the remote portion of GDPUD's service area in El Dorado County California. Lining these canals through the UCRP, will enable GDPUD to improve water efficiency by eliminating canal scouring, seepage loss, and vegetation growth, thus increasing water supply reliability of water delivery within GDPUD's service area. It is anticipated that the UCRP will result in the modification of individual features of an irrigation system as these canals are used to deliver water supplies to meet agricultural water demands. As stated above, the water delivery system was developed as early as the mid-1800s. The segments of the canal in the UCRP have not been extensively modified/altered since original construction in the 1950s.

Are any buildings, structures, or features in the irrigation district listed or eligible for listing on the National Register of Historic Places?

There are no known buildings, structures, or features in the UCRP listed or eligible for listing on the National Register of Historic Places.

Are there any known archeological sites in the proposed area?

There are no known archeological sites within the UCRP.

Will the proposed Project have a disproportionately high and adverse effect on low income or minority populations?

It is not anticipated that the UCRP will have a disproportionately high and adverse effect on low income or minority populations.

Will the proposed Project limit access to, and ceremonial use of, Indian sacred sites or result in other impacts on tribal lands?

It is not anticipated that the UCRP will limit access to and ceremonial use of Indian sacred sites or result in other impact on tribal lands.

Will the proposed Project contribute to the introduction, continued existence, or spread of noxious weeds or non-native invasive species known to occur in the area?

It is not anticipated that the UCRP will contribute to the introduction, continued existence, or spread of noxious weeds or non-native invasive species known to occur in the project area.

El Dorado Water Agency

April 8, 2022

Mr. Adam Coyan, General Manager
Georgetown Divide Public Utility District
6425 Main Street
Georgetown, CA 95634

Subject: Support of and Commitment for Third-Party In-Kind Contributions to the Georgetown Divide Public Utility District's 2023 Upper Canal Reliability Project: Notice of Funding Opportunity No. R22AS00163

Dear Adam:

I am writing, on behalf of the El Dorado Water Agency (Agency), to express our commitment to support the Georgetown Divide Public Utility District's 2023 Upper Canal Reliability Project WaterSMART Small-Scale Water Efficiency Projects Grants application. We understand that this project will help conserve and use water more efficiently by lining existing open earth channels within the Georgetown Divide Public Utility District service area where water losses are currently high.

We advocate the importance of promoting a project that reduces seepage and prevents potential canal failures. With Georgetown Divide Public Utility District's location in the Sierra Nevada headwaters, this water efficiency improvement project will promote water supply reliability both in the region and downstream. As such, the Agency is committed to provide up to 140 hours of third-party in-kind contributions for grant administration support such as maintaining grant reimbursement and payment spreadsheets and documents along with the required reports. The in-kind labor will be available upon award of the grant and during the period of performance of the grant agreement. These funds are available in the Agency's current, adopted annual budget and within the spending authority of the general manager.

The Agency appreciates GDPUD's efforts to work collaboratively and support the Agency's adopted Resource Management Strategy No. 5a, to *ensure water infrastructure integrity, operations, and maintenance through agency-specific Capital Improvement Programs*, and support our adopted *Policy WRDMP-02, … to improve water resources management in El Dorado County, with anticipated economic and public benefits accrued in all communities throughout El Dorado County.*

Sincerely,
EL DORADO WATER AGENCY

Kenneth V. Payne, P.E.
General Manager

(530) 621-5392
4330 Golden Center Drive, Suite C, Placerville, CA 95667
edcwa@edcgov.us
EDWaterAgency.com

RESOLUTION NO. 2022-28

OF THE BOARD OF DIRECTORS OF THE GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT

AUTHORIZING THE GENERAL MANAGER TO COMMIT TO THE FINANCIAL AND LEGAL OLBLIGATIONS ASSOCIATED WITH RECEIPT OF THE WATERSMART SMALL-SCALE WATER EFFICIENT PROJECTS GRANT FINANCIAL ASSISTANTANCE IF AWARDED FOR FISCAL YEAR 2022: NOTICE OF FUNDING OPPURTUNITY NO. R22AS00195

WHEREAS, the Georgetown Divide Public Utility District (GDPUD) proposes to implement the 2023 Upper Canal Reliability Project (UCRP) to eliminate canal erosion, seepage loss and vegetation growth to ultimately increase water supply and overall reliability of water delivery within GDPUD's service area; and

WHEREAS, approximately 70 percent of GDPUD's 75 miles of conveyance is unlined ditch. GDPUD estimates that operational water requirements and losses total about 3,600 acre-feet per year. Lining ditches in areas that are known to have a high degree of conveyance losses will maximize water savings; and

WHEREAS, the GDPUD has identified itself as an eligible applicant under the U. S. Bureau of Reclamation's (Reclamation's) WaterSMART: Small-Scale Water Efficiency Projects for Fiscal Year 2022;

WHEREAS, Georgetown Divide Public Utility District is pursuing grant funding assistance under Reclamation's WaterSMART: Small-Scale Water Efficiency Projects in an amount up to $75,000 to concrete line unlined ditches to increase water supply and overall reliability of water delivery; and

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT THAT:

1. The Board finds that the proposed project will serve both the mission of GDPUD and satisfy the goals of the WaterSMART Program and, on that basis, supports staff's submittal of financial assistance application to Reclamation.
2. GDPUD is capable of funding $110,000 share required to obtain grant funding under the WaterSMART: Small-Scale Water Efficiency Projects. A detailed breakdown of project costs is included with the application.
3. The Board has granted the General Manager, or his designee, the legal authority to enter into an agreement with Reclamation and hereby ratifies the action of its General Manager in applying for financial assistance from Reclamation's WaterSMART Program to promote water use efficiency, contribute to meeting state mandated water conservation and water loss goals, and increasing water supply and overall reliability of water delivery within GDPUD's service area.
4. The General Manager and staff are directed to take all other actions necessary to secure funding for the 2023 UCRP under the WaterSMART: Small-Scale Water

Efficiency Projects, including working with Reclamation to meet established deadlines for entering into a cooperative financial assistance agreement.

PASSED AND ADOPTED BY THE Board of Directors of the Georgetown Divide Public Utility District at a regular meeting of said Board, held on the twelfth day of April, 2022, by the following vote of said Board:

AYES: THORNBORUGH, MACDONALD, STEWART, SEAMAN, SAUNDERS

NOES:

ABSENT/ABSTAIN:

Michael Saunders, President, Board of Directors
GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT

Attest:

Adam Coyan, Clerk and Ex officio
Secretary, Board of Directors
GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT

CERTIFICATION

I hereby certify that the foregoing is a full, true, and correct copy of Resolution 2022-XX duly and regularly adopted by the Board of Directors of the Georgetown Divide Public Utility District, County of El Dorado, State of California, on this 12th day of April 2022.

Adam Coyan, Clerk and Ex officio
Secretary, Board of Directors
GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT