

Hildale City Meter Upgrade and Automated Read Project

WaterSMART Grants: Small-Scall Water Efficiency Projects

Funding Opportunity Announcement No. R22AS00195

Applicant

Hildale City, Utah 320 Newel Street P.O. Box 840490 Hildale, UT 84784 https://www.hildalecity.com/

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1.1 EXECUTIVE SUMMARY

Submission Date: April 22, 2022 Applicant: City of Hildale Applicant City, County, State: Hildale, Washington County, Utah Project Location: Hildale Utah and Colorado City Arizona Funding Group: R22AS00195

The purpose of the Hildale (City) Meter Replacement & Automated Read Project is to replace outdated, under-registering, manual read meters with new meters; to convert newer, accurately recording radio read meters to radio read / fixed base read technology; to purchase new radio and fixed base read units to retro fit existing meters, laptop reading computer, software and mobile read antennae, associated repeaters, reading software and hardware; and to configure the reading system to interface with the billing system. The City of Hildale is listed as a Disadvantaged Community by Utah Department of Environmental Quality (DEQ) with Median Adjusted Gross Income (MAGI) at \$23,500 according to the DEQ website. Most of the customer account water meters were originally installed between 2005 and 2012 and the average age of meters in our system is approximately 10 + years. As we began to replace outdated, under-registering meters, the City saw impact of the accuracy of water accounting resulting both in an increase in billed water and correlating decrease in lost and unaccounted water. This goal of the project is to leverage science and technology to increase the efficiency of the meter reading process, accurately account for metered water use, and reduce lost and unaccounted water; thereby improving water supply reliability and use our water resource more efficiently. The City's water supply is not always consistent and at times we must ask customers to conserve water. The new meter reading technology provides a means for customers to easily monitor their own water usage and can even notify them if they have a significant increase in their water usage.

It is estimated the project will take approximately 12 months to complete and will begin approximately 30 days after execution of the grant agreement between our two parties.

This project is not located in a federal facility.

1.2 Background Data

City of Hildale (City) was incorporated in 1960 and became a City in March 1990. Colorado City was founded in 1913. Hildale and Colorado City have a Mayor Council form of government and have an Inter-Governmental Agreement (IGA) for the operating, maintenance and oversight of the Utilities including Water, Wastewater and Gas. An Advisory Board made up of residents from both communities provide review and guidance to the City Councils and meet monthly. The Advisory Board members are selected by the City Council and appointed to represent the two communities on all utility matters. Hildale and Colorado City share a common border, with Hildale located in Washington County, Utah and Colorado City located in Mohave County, Arizona. The Cities are the taxing authority, and the City Councils provide governing oversight of the Cities.

Hildale/Colorado City (HCC) water system has 14 wells, 12 of which are currently active. These wells are located primarily along the state border in Arizona and range in depth from 100 to 600 feet. The wells can pump between 20 - 210 GPM with an average of approximately 100 GPM.

The utility has four storage tanks providing up to 2.4 million gallons of storage. The HCC system consists of approximately 45 miles of water main. Water distribution mains range in size from 2-inches to 12-inches and are located both underneath the existing road surface and adjacent to the existing road surface. The system has one water treatment plant for Iron and Manganese removal. The treatment plant consists of two arrays of three pressure vessels per array using "greensand" type filter media. The plant capacity is 1,250 GPM or 1.8 MGD. Fire hydrants and service valves are located throughout the HCC service area.

Because HCC is not situated over a large, high-quality aquifer, but instead draws from two primary aquifers for blending purposes, all wells must send water to the water treatment plant prior to going into the distribution system. We are currently serving about 1,000 accounts with water service. In 2021, we had an average of 872 active metered customers. In 2021, HCC pumped a total of 338.5 million gallons of ground water and delivered 288.4 million gallons of water to metered customers. (See Table 1. and Table 2.)

Water Use Category	Retail Annual Quantity (Thousands)	Number of Active Connections
Residential Use	229,829.00	753
Commercial Use	28,475.00	79
Industrial Use	3,515.00	11
Institutional Use	26,620.00	29
Total Use	288,439.00	872

Table 1: 2021 Water Use and User Category

Table 2: Water Usage, Water Sold and Water Losses for January	2021 through December 2021
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Water From All Sources	Amount (Thousand Gallons)	Location
Total Water Pumped	338,514.00	12 Wells
Total Use/Sold	288,439.00	872
Water Loss	50,075.00	14.79% Loss

Due to funding constraints and other infrastructure priorities, HCC has been unable to dedicate financial and staffing resources to replace under registering meters. If funded this project will allow us to do so, resulting in what we anticipate will be reduced unaccounted water, increase billing accuracy and revenue collection, and better water resource management. As stated earlier, HCC is a disadvantaged community with a MAGI of \$23,000. HCC has pursued and received loan funding from WIFA for well rehabilitation improvements. We are currently in the process of doing a rate study with Rural Community Assistance Corporation (RCAC). As a disadvantaged community, maintaining affordability of water rates is imperative. As such financial resources are limited and water improvements, even those positively impacting water conservation, are difficult

to fund. Inability to fund these projects, is having a direct impact on unaccounted for water and water loss and will continue to do so until we can secure funding opportunities from grants and other federal assistance programs rather than rates.

HCC has not received any funding from Bureau of Reclamation in the past.

1.3 Project Location

HCC location, as shown in Figure 1, is in the incorporated areas of Hildale, Washington County, Utah and Colorado City, Mohave County, Arizona and encompasses approximately 20 square miles. The population of these communities is approximately 7,100 people. Most of our metered accounts are in the HCC Proper area. We are located 52 miles south of Downtown Saint George, Utah on Highway 389 and 113 miles northwest of Downtown Page, Arizona. The elevation ranges between approximately 4,900 and 5,100 feet above sea level.



Figure 1 – HCC Project Location

1.4 Technical project description and milestones

In order to accurately capture all water usage in the distribution system, meters are the primary tool for measuring water delivery to each property with water service. To accurately measure water usage for a property, a majority of system meters need to be replaced either due to the amount of water flow through the meters, age, or both. Meters in the HCC service area is mostly ³/₄" by 5/8".

As part of the routine meter reading and billing, each meter must be manually read or read by a handheld radio read system, and the reads then manually entered in our billing system. This is an incredibly time intensive process and which by nature can result in human errors. With the new technology being used since the 1990's, there is a proven track record that radio read / fixed base systems are more accurate and a time saving tool. This time savings is even more critical in a small system, as it frees up limited operators' resources to work on higher level system repairs and maintenance needs. With increased accuracy and efficient reading and recording technology, we are certain the system will see decreased lost and unaccounted water. Additionally, leaks can be quickly identified and addressed both in the system and for individual metered customers. As part of the water system improvements and joining the 20th century with technology, moving HCC to an automated meter reading and billing system is the next progressive step. With radio read / fixed base meter reading systems being used nationwide, there is a track record for significantly reducing the manual labor in physically reading each meter and transferring the reads to a billing office. With fixed base systems, the reading is automated and seamlessly transferred electronically into bill system software. In our system, the change will require either replacing existing meters or retrofitting newer meters with the radio and fixed base technology, require a software purchase and annual license, and require configuration for communicating information between the meter reading and billing systems.

The reason for the water meter replacement program is two-fold: First, American Water Works Association (AWWA) best practices recommends meters be changed out every ten to twelve years or at a threshold of 1 - 2 million gallons of use. Second, the Utah Department of Environmental Quality (DEQ), Water Division and the Arizona Department of Environmental Quality (ADEQ) require water systems report the amount of water which is either lost or unaccounted throughout the system. We suspect the majority of our lost or unaccounted water can be attributed to water accounting through inaccurate meters readings - rather than infrastructure integrity. Replacing potentially under registering meters meets goals for the HCC, DEQ and ADEQ. It is estimated by replacing the meters and converting to a radio or fixed base system HCC will be able to reduce the lost and unaccounted or non-revenue water <u>by at least 5% of its total water supply</u> resulting in improved efficiency and better water management.

METER REPLACEMENT:

The scope of this project has two initial parts and a long-term approach which will reduce manual labor, increase efficiencies for capturing leaks and reducing water loss. Part One is to replace 100 old, manually read 5/8" by 3/4" meters in the water system with new, accurate meters with advanced radio / fixed base reading technology. Part Two is to retrofit over 900 older technology "radio read" meters with new radio read / fixed base reading technologies. This group of meters has outdated radio read capability, but the drive by radio reading system was never acquired and as a result they are being read by walk by / touch read process. Part one will require full meter

replacement. Part two will be accomplished by retro fitting the current meter with newer radio read transmitting capability which interfaces with a radio read / fixed base communication system. Finally, this project will initially move the system to a fully radio read capability but allow for a transition to fix base technology as the next future phase. Fixed base will provide the greatest system efficiencies to accurately manage production, meet demand and promote conservation through real time data collection, alerts, notification, and customer interface tools. The priority with this project is to realize the immediate benefits of the more accurate reading meters in the system to better record usage, manage production, reduce unaccounted water; and to move to a full radio read capability to be able to reallocate staff time currently devoted to this monthly activity, yet position the system for the next phase of full fixed based communication as funds and resources allow.

RADIO READ SYSTEM SOFTWARE, HARDWARE, CONFIGURATION:

The scope is for the purchase, licensing and configuration of fixed base software and hardware for reading meters in the water system and transmitting meter read information into our billing system and training of field, office, and managerial staff.

Radio Read Meter Project Cost Estimates:

Badger 5/8" x ³ / ₄ " E Series Meters (100)	\$18,800.00
Itron Water ERT Radio Transmitter with Installation kit (1,000)	\$87,000.00
Itron CCU 100 Collector	\$7,915.00
Itron Repeater 100	\$6,460.00
Itron FCS Software	\$4,596.00
Itron Mobile Read Equipment	\$14,284.00
Itron IMR Radio	\$3,814.00
Meter Installation (HCC Utility Staff)	\$44,500.00
Gaskets, lids, misc. parts	\$2,153.00
Project Management & Administration	\$5,500.00
Contingency (5%)	\$9,230.55
Total Cost	\$204,252.55

1.5 Evaluation Criterion

Evaluation Criteria Scoring Summary		
A. Project Benefits	35	
B. Planning Efforts Supporting the Project	35	
C. Project Implementation	10	
D. Nexus to Reclamation	10	
Total	90	

Evaluation Criterion A – Project Benefits (35 points)

Up to **35** points may be awarded based upon evaluation of the benefits that are expected to result from implementing the proposed project. This criterion considers a variety of project benefits, including the significance of the anticipated water management benefits and the public benefits of the project. This criterion prioritizes projects that modernize existing infrastructure in order to address water reliability concerns, including making water available for multiple beneficial uses and resolving water related conflict in the region. Describe the expected benefits and outcomes of implementing the proposed project. What are the benefits to the applicant's water supply delivery system? If other benefits are expected explain those as well. Consider the following: Extent to which the proposed project improves overall water supply reliability. The expected geographic scope benefits from the proposed project (e.g., local, sub-basin, basin.)

The meters for this project are the latest technology and will serve to better manage the Hildale/Colorado City (HCC) water supply, as well as provide more accurate readings for true accountability of production water. The average age of meters in our system is estimated to be more than 15 years old, with our oldest meters in place since water system inception in the 1990's. It is anticipated that by replacing our the outdate and under-registering water meters and reading technology HCC will be able to reduce our Lost & Unaccounted (non-revenue water) by at least 5% of our total water supply through simply recording and billing more accurately for our customer's water usage. We will, therefore, be able to match pumping more effectively to usage for more efficient water management. Finally, drive-by radio read technology will allow us to read customer meters more frequently and thus be able to identify and address unusually high usage and potential leaks quickly. Any tool which allows us to match pumped water to usage and reduce draw from the sub-basin, not only benefits our customers but also our neighboring communities who also rely on the Subbasin and the negative impacts on the aquifer.

HCC groundwater subbasin is primarily from the Shinarump Aquifer (See Figure 3.) which is in Hildale/Colorado City and most of the northern Arizona, southern Utah water basin. The aquifer serves potable/culinary needs of residents, irrigation for agriculture and cattle ranching. Due to the limited nature and variability of the water supply, HCC commissioned a study by Bowen, Collins & Associates (BC&A) in 2019 to review other water options in the Kayenta and Moenave Aquifers. Figure 2 below shows a three-dimensional view of the aquifers and the relative depth to water. Over the past three years, HCC has had to implement a Water Restriction process which reduces the use of water for residents due to low water production in the summer months. Only

through conservation, reduced water loss, and increased production capacity can HCC sustain current operations and support residential and commercial growth in the local economy. Regionally, we will reduce unaccounted for water and thereby reduced water pumped from our taxed groundwater sources and reduce pressure on the aquifer upon which so many people rely. This will have a positive impact of water management in the area and sustain water supplies to our neighboring communities. By better managing the water draw through accounting accuracy and reduced pumpage, it will also reduce the amount of electricity and extend well and pump life. Additionally, water customers will be billed accurately for their water usage encouraging conservation and contributing to our system's financial stability. (See Figure 3.)

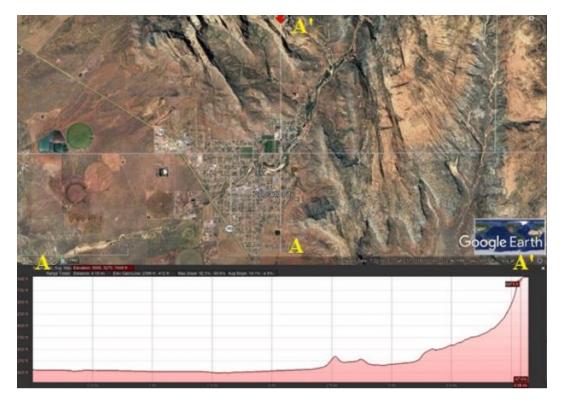


Figure 2: Subbasin Boundary Profile

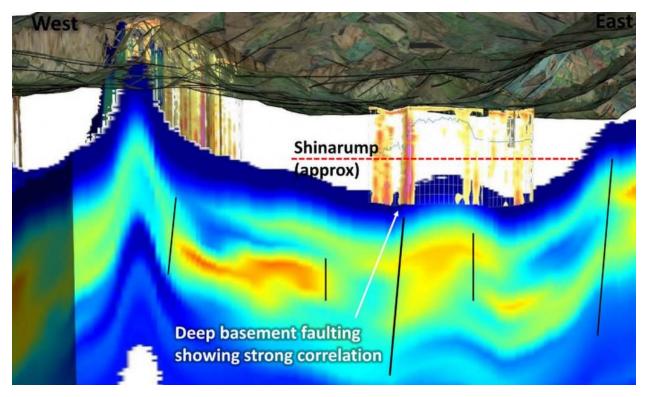


Figure 3: Shinarump Aquifer Boundary Profile

Extent to which the proposed project will increase collaboration and information sharing among water managers in the region.

If successful the HCC plans on presenting this information at the Rural Water Conference, AZ Water Association annual conference, and any other platform the information can be shared and used by other small water systems statewide who are struggling with high non-revenue or Lost & Unaccounted water numbers, meter reading inefficiencies and wish to equip themselves to apply for federal grant opportunities; as well as immediate information sharing with neighboring small system private water providers in Mohave and Washington County. We plan to publish information on the grant project and outcomes on HCC websites, in other local publications, as well as with the Washington County Water Conservancy, Mohave County Board of Supervisors and community stakeholders.

Any anticipated positive impacts/benefits to local sectors and economies (e.g., agriculture, environment, recreation, tourism)

The water system serves a disadvantaged community with a Median Adjusted Gross Income (MAGI) at \$23,500 according to the Department of Environmental Quality (DEQ) website (<u>https://deq.utah.gov/drinkingwater/magi-by-city</u>). As the HCC is a public water system, funded primarily by user water rates of an economically disadvantaged community, the reliability and financial viability of the system is crucial to sustaining and growing the area. Rate increases represent a significant burden to many customers in our economically depressed area. Realizing

savings in operational efficiencies and water production from meter conversion to radio read / fixed base technology will positively benefit HCC's bottom line and allow savings to be redirected to other investments in infrastructure. Accurate water accounting and increased efficiencies allow us to better use current production resources to meet demands.

As noted in the Bureau of Reclamation's *Overview of Disadvantaged Communities and Native American Tribes in the Santa Ana River Watershed*, residents living in severely disadvantaged or disadvantaged communities are often disproportionally impacted by high infrastructure costs, poor water quality, and failing septic systems. HCC wants to ensure that all community members, especially those with fewer resources, have access to technologies that save money and precious water resources and assure a safe, quality water supply.

Extent to which the project will complement work done in coordination with NRCS in the area (e.g., with a direct connection to the district's water supply).

It is estimated that by replacing the remaining outdated water meters and older radio read technology, HCC will be able to reduce the Lost & Unaccounted or non-revenue water by 5% of its total water supply through improved efficiency and better water management.

Describe any on-farm efficiency work that is currently being completed or is anticipated to be completed in the future using NRCS assistance through EQIP or other programs.

No on-farm efficiency work is being completed using NRCS assistance.

Evaluation Criterion B – Planning Efforts Supporting the Project (35 Points)

Up to 35 points may be awarded based on the extent to which the proposed on the ground project is supported by an applicant's existing water management plan, water conservation plan, System Optimization Review (SOR), or identified as part of another planning effort led by the applicant. This criterion prioritizes projects that are identified through local planning efforts and meet local needs.

HCC City Councils approved their current fiscal year 2021-2022 budget with over \$100,000 allotted to system repairs and maintenance and an additional \$39,000 for supplies including meters. Even with financial capacity of our small system the importance of this project has been identified by the system managers and HCC Advisory Board as a priority. Without the grant, the project will need to be funded over a period of three to five years. The receipt of this grant will allow the project to be completed to begin in 2022 and be completed within 12 months, thus the benefits to the system, the users and the aquaifer will be realized earlier. The HCC is committed to meet the objective of this BOR Funding Opportunity of leveraging funds and resources not only to complete the work, but also evaluate the results. Additionally, as part of our water conservation plan, we work with our users on water conservation education, and often ask them to reduce their water use during times of low supply. These new automated meter reading techonology platforms provide customer facing usage data that will allow us to better engage our customers in actively managing their own use and quickly identifying and attending to leaks. As we are working on adding new wells to the system, efficient use of current production capacity will improve water management, allowing us to meet new growth demands and manage costs to existing, disadvantaged customers by extending current resources and reducing pressure to add new ones.

Evaluation Criterion C – Project Implementation (10 points)

Up to **10 points** may be awarded based upon the extent to which the applicant is capable of proceeding with the proposed project upon entering into a financial assistance agreement. Applicants that describe a detailed plan (e.g., estimated project schedule that shows the stages and duration of the proposed work, including major tasks, milestones, and dates) will receive the most points under this criterion.

As well as being a recognized priority of City managerial staff, the HCC Advisory Board and City Councils approved system repairs, maintenance, and equipment improvement at \$135,000 and \$139,000 in each of the last two years fiscal budgets. Although the Fiscal Year 2022-2023 budget has not yet been approved, a similar level of funding is planned with a portion of that allocation designated for the metering project. Again, without grant funding this project would have an implementation timeline of three to five years. Receipt of grant funding would move the entire project up for completion in 2022-2023.

HCC does not anticipate that permits will be required as all meters will be installed in the place of existing system water meters. All project-related approvals will be handled by the HCC managerial staff and operations staff and executed in a timely and efficient manner. Capability of

purchasing meters and equipment is established through the HCC's policies for procurement and contracts necessary to provide the equipment, software, hardware, programming, and installation services on the project. Procurement activity and site work will proceed according to the schedule below. No engineering work is necessary. There are no environmental compliance costs associated with this project.

PROJECT SCHEDULE / MILESTONES

(Milestones are based on days after Grant Award)

Option A: Meters Installed by HCC Staff

1.	Procure Radio Read Meters, Parts, Hardware & Software:	60 Days
2.	Radio Read Integration & Training:	30 Days
3.	Meter Installation:	12 Months
4.	Completion of Project:	30 Days
Option	B: Meters Installed by Contractor	
Option	B: Meters Installed by Contractor	
1.	Procure Radio Read System & Meter Installation Contracts:	60 Days
2.	Meter Installation by Contractor:	90 Days
3.	Radio Read Integration & Training:	30 Days
4.	Completion of Project:	30 Days

Evaluation Criterion D – Nexus to Reclamation (10 Points)

Up to 10 points may be awarded based on the extent that the proposal demonstrates a nexus between the proposed project and a Reclamation project or activity. Describe the nexus between the proposed project and a Reclamation project or activity, including Is the proposed project connected to a Reclamation project or activity? If so, how? Please consider the following: Does the applicant receive Reclamation project water? Is the project on Reclamation project lands or involving Reclamation facilities? Is the project in the same basin as a Reclamation project or activity? Will the proposed work contribute water to a basin where a Reclamation project is located? Will the project benefit any tribe(s)?

Reclamation and the U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) have collaborated to align program resources in areas of the Western United States where our mission areas overlap (17 Western States), to improve the impact of the agencies' respective drought resiliency and water efficiency investments. This project aligns with those goals and will improve drought resiliency and water efficiency in an aquifer that intensely supports commercial and residential development, as well as ranching and other farming and grazing activities.

Our project supports the following Department and Reclamation priorities as detailed below and elsewhere in this application:

This project is an innovative application of an existing science/technology. With the installation of this technology, HCC will be able to accurately account for metered water use. This technology enables HCC to manage its water by aligning production with accurate metered use and directing lost and unaccounted for water efforts to other areas of infrastructure and system management such as leaks, fire protection, flushing, etc. HCC sees this technology as a best management practice for our water resources.

The HCC knows that in times of drought that regional collaboration is extremely important. We share our aquifer with neighboring communities, private water providers, individual and agricultural users. Through the conversion of our meters, we are demonstrating to our neighbors we are collecting and reporting accurate data. As our neighbors, we report our annual water use through ADWR and Utah Division of Water Rights, and most major water providers look at what their neighbors report to the State. It is important that not only our neighbors, the County, State, and our customers feel confident in the accuracy of our water use and billing data.

As a small municipal water system relying heavily on user rates in an economically depressed area, disadvantaged community, HCC would not be able to make necessary improvements to infrastructure and advancements in technology for water management without collaboration and funding from public sources. As we continue to deal with drought conditions and funding restrictions, we our focusing on efforts on grant opportunities as a means of reaching water efficiency goals in a fiscally responsible and timely manner.

2.0 Project Budget

2.1 Funding Plan and Letters of Commitment

The project is fully funded from HCC and has been approved by the City Councils as part of the pending FY 2022-2023 Year Budget. The funding commitment will be made by motion at the April ?, 2022 Colorado City Council meeting, at the April ?, 2022 Hildale City Council meeting at which time the HCC Councils will formally approve submission of the grant and commitment of \$104,252.55 in capital and operating funds for the project. The commitment letters will be part of the BOR application.

2.2 Budget Proposal

	TOTAL DIRECT COSTS				\$ 204,252.55	
Indirect Costs						\$ -
N/A		\$	-	1	Each	\$ -
TOTAL ESTIMATED PROJECT COSTS						\$ 204,252.55
BOR						\$ 100,000.00
					HCC	\$ 104,252.55

Detailed Project Budget

	COMPUTATION			Quantity	Quantity	
BUDGET ITEM DESCRIPTION		\$/Unit	Quantity	Quantity Type		соѕт
Salaries and Wages					\$	-
Meter Installation	\$	44.50	1000	Each	\$	44,500.00
Management & Administration	\$	5,500.00	1	Each	\$	5,500.00
Fringe Benefits					\$	-
Travel					\$	-
Equipment					\$	-
Meters: Badger E Series Meters	\$	188.00	100	Each	\$	18,800.00
Transmitter: Itron ERT with installation Kit	\$	87.00	1000	Each	\$	87,000.00
CCU 100 Collector	\$	7,915.00	1	Each	\$	7,915.00
Itron Repeater 100	\$	6,460.00	1	Each	\$	6,460.00
FCS Software	\$	4,596.00	1	Each	\$	4,596.00
Mobile Read Equipment	\$	14,284.00	1	Each	\$	14,284.00
Itron IMR Radio	\$	3,814.00	1	Each	\$	3,814.00
Supplies and Materials					\$	-
Gaskets, Lids, Misc Parts	\$	2,153.00	1	Each	\$	2,153.00
Contractual/Construction					\$	-
Other					\$	-
Contingency (5%)			1	Each	\$	9,230.55
		тот	AL DIRECT CO	OSTS	\$	204,252.55
Indirect Costs					\$	-
N/A	\$	-	1	Each	\$	-
TOTAL ESTIMATED	PRC	JECT COSTS			\$	204,252.55
				BOR	\$	100,000.00
				HCC	\$	104,252.55

2.3 Budget Narrative

The budget for the HCC Meter Replacement and Radio Read Conversion Project consists of the purchase of 100 new Meters with Radio Read Technology capability, in this case we have chosen the Badger $5/8 \times 3/4$ " E Series Meter at a cost of \$188.00 each. The Itron ERT with installation kit at a cost of \$87 each.

The software and hardware for the radio read field vehicle reading system includes the Laptop computer with antenna, reliever, and charger at \$14,284.00.

The total cost for Software Integration, staff training and bill integration with staff training, customer service support, warranty, and first year licenses and service fees customer service support are \$4,596.

The installation costs for the meters are estimated to be \$44,500, based on current staff salaries and wages. For staff to complete the project as well as attend to other necessary duties for system maintenance and administration, the meter change out will occur methodically over a 12-month period. As Option B, upon grant award HCC may bid the cost for meter installation to determine if a private contractor can meet or beat our in-house cost for installation and complete that installation in 60 days or less.

The project will begin once the funds have been released with the procurement of the meters, radio read vehicle-based hardware unit and software. The installation will be completed by as detailed above depending based on market conditions for contractor pricing or monthly implementation schedule determined and completed by staff.

3.0 Environmental and Cultural Resources Compliance

The application should include the answers to:

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.

The project will not require any earth-disturbing work or any work that will affect the air, water, or animal habitat in the project area nor any impacts on the surrounding environment.

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 project area? If so, would they be affected by any activities associated with the proposed project?

We are not aware of any endangered species in the project area.

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

None of which we are aware.

When was the water delivery system constructed?

The water delivery system was constructed in 1972.

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.

No, it will not.

Are any buildings, structures, or features in the irrigation district listed or eligible for listing on the National Register of Historic Places? A cultural resources specialist at your local Reclamation office or the State Historic Preservation Office can assist in answering this question.

There maybe, but this project does not include new construction, renovation of existing structures or moving of earth.

Are there any known archeological sites in the proposed project area?

No, there are not.

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

No, it will not. Actually, it will benefit disadvantaged populations.

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

No, it will not.

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?

No, it will not.

4.0 Required Permits or Approvals

No permits are required for this project work.

5.0 Official Resolution

Attached is the Board and Council Approved FY 2021-2022 Budget.

Attached is the Pending FY 2022-2023 Budget, pending Council approval June ??, 2022.

Attached is the April ?, 2022 Council Minutes at which the HCC Councils approved this grant application, thereby committing to the project and its funding.

Attached is the agenda for the April ? 2022 Council meetings at which the Councils approved application for this grant opportunity. The minutes of that meeting will be approved at their next meeting on May ?, 2022.

6.0 Unique Entity Identifier and System for Award Management

Hildale, Utah is registered in SAMS

- City of Hildale, Utah Registered Name
- CAGE: | DUNS:
- •