

**TITLE PAGE**

**High-Efficiency Clothes Washer Replacement Program for Low-Income Households**

**APPLICANT**

Sonora Environmental Research Institute, Inc.  
3202 E. Grant Road  
Tucson, Arizona 85716

**PROJECT MANAGER**

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## TECHNICAL PROPOSAL

### (1) Executive Summary

**Date:** 3 July 2024

**Applicant:** Sonora Environmental Research Institute, Inc.

**City:** Tucson

**County:** Pima

**State:** Arizona

**Type of Applicant:** Category B – We are partnering with Tucson Water, a Category A partner, and a letter confirming that they are partnering with us and agree to the submittal and content of the proposal is attached. SERI's Limited Income High-Efficiency Clothes Washer Grant and Loan program is a joint program with Tucson Water. SERI receives funding from Tucson Water to implement the program, and the program only is available to Tucson Water clients.

#### **Project Summary**

Sonora Environmental Research Institute, Inc. (SERI), located in the city of Tucson in Pima County in southern Arizona, will install 100 high-efficiency clothes washers in low-income households that are Tucson Water clients. The washers will be installed through SERI's Limited Income High-Efficiency Clothes Washer program, which offers grants and loans to low-income households to replace clothes washers that are at least 5 years old. Implementing a direct-install and replacement program will make high-efficiency clothes washers available to many households that currently cannot financially participate. Replacing old washers with high-efficiency washers will reduce the use of water on average by about 30% water. This project is consistent with Tucson Water's Drought Preparedness and Response Plan, which has an emphasis on conservation, efficiency, and water loss prevention.

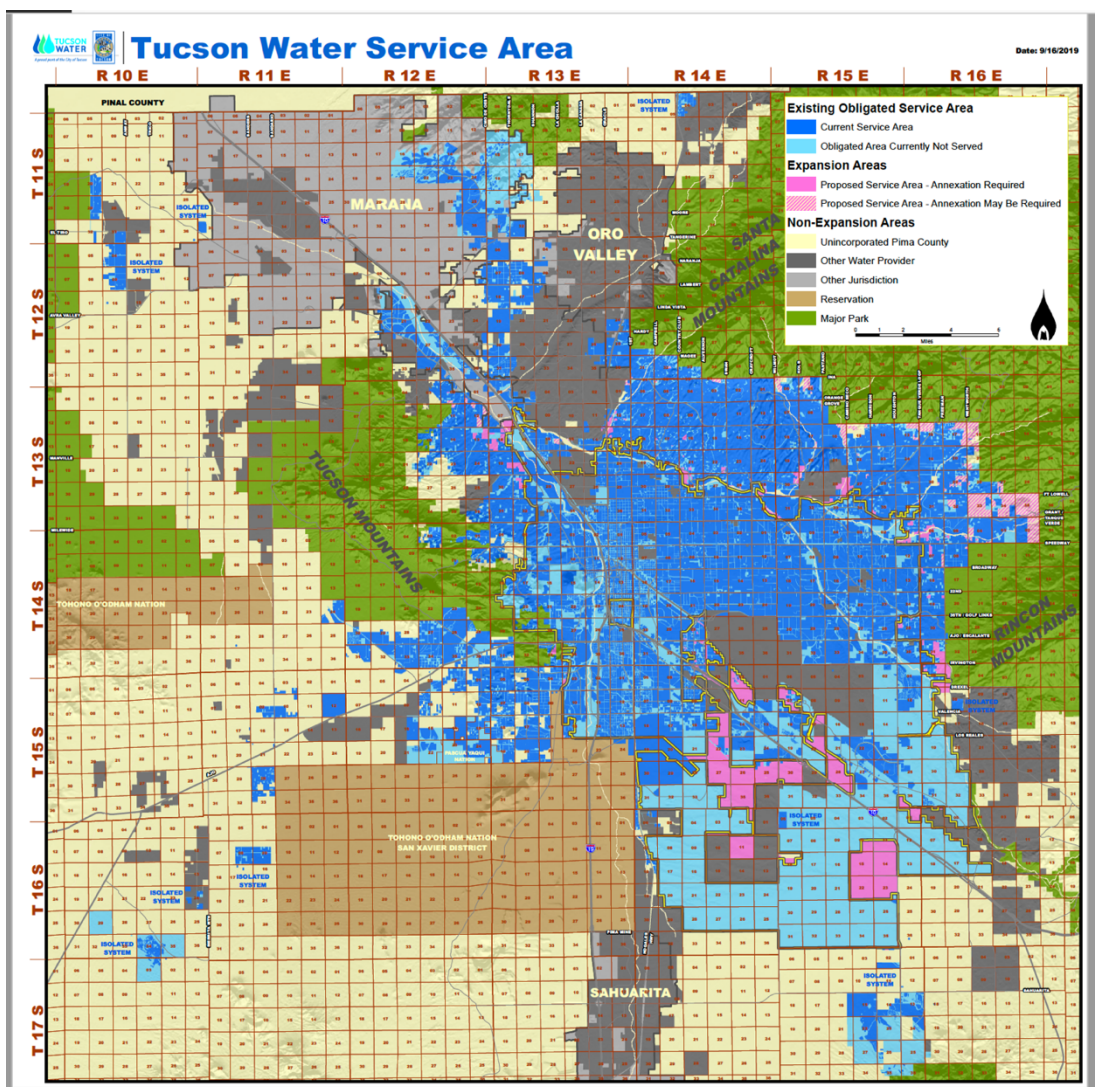
**Length of Time:** The project will take two years to complete.

**Estimated Completion Date:** 3/31/2027

The project is not located at a Federal Facility.

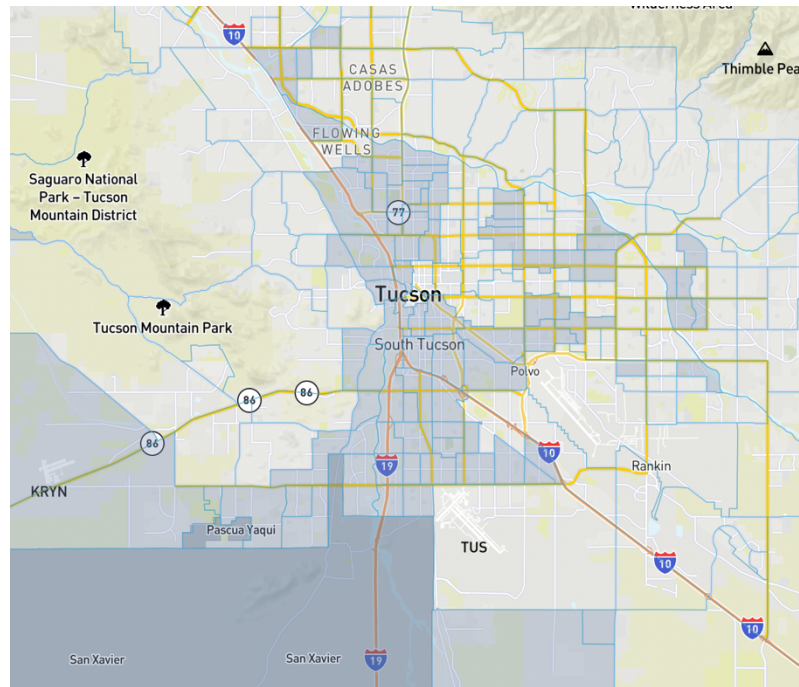
## (2) Project Location

The High-Efficiency Clothes Washer Replacement Program for Low-Income Households is located in the Tucson Water (TW) service area in Pima County, Arizona, which is primarily the city of Tucson metropolitan area. The project will focus on census tracts have been identified by the Climate and Economic Justice Tool as disadvantaged because they meet at least 1 burden threshold and the associated socioeconomic threshold, but all low-income clients of TW that meet the requirements of SERI's High-Efficiency Clothes Washer Program will be able to participate. The high-efficiency clothes washers will be installed at residential properties. A map of TW's service area and a map from the Climate and Economic Justice Tool highlighting the census tracts considered disadvantage are given below.



### Map from the Climate and Economic Justice Tool

Census tracts considered disadvantaged because they meet at least 1 burden threshold and the associated socioeconomic threshold are highlighted in gray.



### (3) Technical Project Description

Given the ongoing drought in the southwest and the predictions that our climate will continue to get hotter and drier, approaches for more effective water management are increasingly important for our community. One such program is TW's high-efficiency clothes washer rebate program; however, the program primarily has been utilized by higher income households. Many low-income households are unable to pay for the upfront costs for a high-efficiency clothes washer and wait for a rebate. In addition the rebates range from \$100 to \$200, which still leaves a substantial financial outlay for the households. Recognizing the financial hurdle for low-income households to participate in TW's program, we partnered with TW in 2023 to form a High-Efficiency Clothes Washer Program for low-income households.

To participate households must be TW customers in good standing, be homeowners and live in single-family dwelling, total household income must be equal to or less than 200% of the Federal Poverty Level, property taxes must be paid, the washer to be replaced must be 5 years or older and removed and not used again, and an Energy Star® front load washer must be chosen from SERI's approved list. We purchase all washers and pay all upfront costs including delivery and installation of the new washer and removal of the old washer. Households pay \$200 (\$50 payments for 4 months) for the new washer and receive a grant for the remaining amount. To date we have distributed 72 washers with expenditures of \$62,721. Initially we were purchasing top load as well as front load washers, because of the lower cost and preference of some households. However, in spring of 2024 we stopped offering top load washers. According to [www.Energystar.gov](http://www.Energystar.gov), Energy Star® front load washers are 25% more

water and energy efficiency than Energy Star® top load washers. With this change we also have started an outreach and education campaign on the benefits of front load versus top load washers. Not only are they more energy and water efficient, but they also clean better and are gentler on clothes. The musty odor that initially was associated with front load washers has been eliminated with new technologies. This program is funding by TW, donations, and repayment of loans. This project significantly increased the capacity of the low-income community to purchase energy and water saving clothes washers.

Unfortunately, many households we visit are unable to pay the \$200 to purchase a new washer through our program. We are requesting \$47,500 to cover 50% of the cost of 100 high efficiency clothes washers. Our current average price for a front load washer with delivery, installation and removal of the old washer is \$950. TW has committed to fund the other 50%. This grant will eliminate the \$200 cost for low-income households (equal to or less than 200% of the Federal Poverty Level) and allow us to distribute additional washers.

#### **(4) Evaluation Criteria**

##### **Evaluation Criterion A. Project Benefits**

**1. Will the project result in more efficient management of the water supply?** The project will reduce the use of water at residential households, as we are replacing old clothes washers with Energy Star® high-efficiency clothes washers. According to [www.energystar.gov](http://www.energystar.gov), a standard, washing machine that is not high-efficiency uses 19 or more gallons of water per load, while the highest rated high-efficiency machine is capable of getting clothes clean with only 7 gallons. However, to qualify as an Energy Star® certified washer, a washer can use no more 14 gallons of water per load. The average American family washes about 300 loads per year. If we replace 100 old washers with Energy Star® certified washers using 14 gallons per load, each household will save 1,500 gallons of water annually. This gives a savings of 150,000 gallons or about 0.5 acre feet annually for the project.

**2. Where any conserved water as a result of the project will go and how it will be used?** The water will not be used by the households and will remain in the Tucson Water system and be available for other customers.

**3. Explain the significance of the anticipated water management benefits for the Category A applicant's water delivery system and customers.** According to the City of Tucson about 80% of single-family households in the Tucson metropolitan area use an average of 10 CCF (7,480 gallons) or less each month, which is 89,760 gallons per year. The minimum annual water savings from this project is enough to support almost 2 households for a year (1.7 households).

**4. Are customers not currently getting their full water right at certain times of year?** No, they are getting their full water right.

**5. Does this project have the potential to prevent lawsuits or water calls?** No, this project does not have the potential to prevent lawsuits or water calls.

**6. What are the consequences of not making the improvement?** If this project is not implemented many low-income customers of TW will continue to use old inefficient washers and use at a minimum 19 gallons of water per load. The customers will not have the benefits afforded by Energy Star® certified washers: water savings, energy savings, and less wear and tear on clothes.

**7. Are customer water restrictions currently required?** No, customer water restrictions currently are not required.

**8. Other significant concerns that support the need for the project.** Replacing old washers with high-efficiency washers is an easy way to reduce household water use and should be a part of any water provider conservation plan.

**Broader Benefits:**

**1. Will the project improve broader water supply reliability at sub-basin or basin scale?** The project will save at a minimum 150,000 gallons or about 0.5 acre feet annually.

**2. Will the proposed project increase collaboration and information sharing among water managers in the region?** No, not directly, but the project could serve as a model for other water providers that do not have a high-efficiency clothes washer program.

**3. Is the project in an area that is experiencing, or recently experienced, drought or water scarcity?** A map of short-term drought for Arizona from U.S. Drought Monitor ([droughtmonitor.unl.edu/CurrentMap.aspx](http://droughtmonitor.unl.edu/CurrentMap.aspx)) is given below with the project location of Pima County identified. According to this map, Pima County is not experiencing a short-term drought. However, according to the Arizona Department of Water Resources, while May is statistically a very dry month, May 2024 was the 12th driest May on record for Arizona, with no measurable precipitation in Pima County. Temperatures statewide were mostly warmer than normal, with May ending as the 43rd warmest May on record for Arizona. A wetter April and near normal temperatures in some locations in May slightly improved short-term drought in some locations. Models suggest a modest increase in the probability of a drier than normal monsoon in 2024. ([www.azwater.gov/drought/drought-status](http://www.azwater.gov/drought/drought-status))

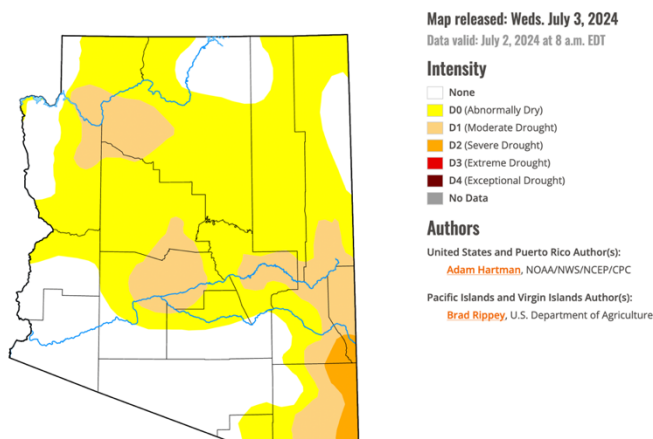
For long-term drought, July 2023 to March 2024 was the 7th warmest July to March in the past 130 years, and statewide precipitation was the 49th driest July to March on record. As of April 2024, the report from the Arizona Drought Monitoring Technical Committee gives portions of the Tucson metropolitan area in severe to extreme long-term drought. ([www.azwater.gov/drought/drought-status](http://www.azwater.gov/drought/drought-status))

Arizona receives nearly 40% of its water from the Colorado River, but water supply is diminishing from the growing demand of the more than 40 million people that rely on the river and from the impacts of climate change. The river's reservoirs have been historically low for the past two decades, and an estimated 20% drop of streamflow is expected in as soon as three decades, which could have severe consequences for water supply, economic activity and

ecosystem health. According to Nature Climate Change, Tucson is warming faster than other places, and about 40% of the drought can be linked to human-caused climate change.

A total of nine water providers deliver Central Arizona Project (CAP) municipal water to Pima County water users. TW has the largest CAP annual municipal allocation in the state. The drought status of the Colorado River Basin and probabilities of any shortage declaration are monitored by the Pima County Local Drought Impact Group and impacts to these sectors. The August 2023 Bureau of Reclamation 24-Month Study projected Lake Mead to be below 1,075' and above 1,050' mean sea level on January 1, 2024 and concurrent with the 2007 Operating Guidelines and the Drought Contingency Plan, Lake Mead is operating in a Tier 1 shortage beginning 2024. The first declared shortages impacts CAP water supplies by reducing 512,000 acre feet cutting all excess water, and reducing Agricultural Pool water, which has been backfilled with mitigation water as part of the Drought Pima County LDIG Contingency Plan. (Source Pima County Local Drought Impact Group Office of Sustainability and Conservation 2023 Water Year Annual Report). According to the City of Tucson, Tucson is currently in Tier 2 drought tier and response measures because the elevation of Lake Mead is projected to go below 1,045' above sea level. Response measures include conservation programs (Tucson Water Drought Preparedness and Response Plan, June 2021 Update).

### Map of Short-term Drought for Arizona



Pima County

**4. Will the project help address drought conditions at the sub-basin or basin scale?** Yes as the project is part of Tucson Water's drought response measures which include conservation programs and will save at a minimum 150,000 gallons or about 0.5 acre feet annually.

**5. Will the project benefit species?** No the project will not benefit a federally threatened or endangered, a federally recognized candidate species, a state listed species, or a species of particular recreational, or economic importance.

**6. Will the proposed project positively impacts/benefit various sectors and economies within the applicable geographic area (e.g., impacts to agriculture, environment, recreation, and tourism)?** The project has direct positive impacts on low-income households. They will reduce



their water use, which should reduce their water and sewer bills. In addition according [www.Energystar.gov](http://www.Energystar.gov), over the lifetime of an Energy Star® front load washer, households can save about \$550 in energy costs.

**7. Will the project complement work being done in coordination with NRCS in the area?** This project does not directly complement work being done in coordination with NRCS.

## **Evaluation Criterion B. Planning Efforts Supporting the Project**

### **Plan Description and Objectives**

**1. Is your project supported by a specific planning document or effort?** The project is supported by the Tucson Water Drought Preparedness and Response Plan, June 2021 Update, which ensures that water is used wisely through an emphasis on conservation, efficiency, and water loss prevention. The plan states that the City of Tucson drought response measures include a continuation of Tucson Water’s conservation program “as described in the most recent annual report”.

([www.tucsonaz.gov/Departments/Water/Water-Resources-and-Drought-Preparedness/Drought-Preparedness](http://www.tucsonaz.gov/Departments/Water/Water-Resources-and-Drought-Preparedness/Drought-Preparedness)) The most recent annual report is the City of Tucson Water Conservation Program 2022 Annual Report, which was issued in May 2023. The report specifically lists TW’s rebate program for high-efficiency clothes washers and our low-income program, which was implemented in 2023, as an upcoming focus area.

**2. When was the plan developed?** The plan was originally approved by the Tucson City Council in November 28, 2006, the implementation ordinance was approved in March 20, 2007, and the plan was updated in June 2021.

**3. What is the purpose and objective of the plan?** The purpose of the plan is to prepare for drought and other climate change impacts by determining the potential effects of these conditions on both water supplies and delivery infrastructure and to develop a plan to minimize those impacts and create a blueprint for preparedness. The objective of the plan is that TW staff will implement drought response measures early enough to avoid crisis-mode decision making and to help the community anticipate what measures will come next if drought impacts become more severe.

**4. Who developed the planning effort?** The plan was develop with the input of TW’s Citizen’s Water Advisory Committee which includes multiple stakeholders.

**5. What is the geographic scope of the plan?** The plan was developed by the Category A partner, Tucson Water, and covers their service area.

**6. Is the project identified specifically by name and location in the planning effort?** The project is identified specifically in a document referenced by the plan, City of Tucson Water Conservation Program 2022 Annual Report, which was issued in May 2023.

**7. Is this type of project identified in the planning effort?** Water conservation efforts are

specifically identified in the planning effort.

**8. Explain whether the proposed project implement a goal, objective, or address a need or problem identified in the existing planning effort?** The proposed project specifically addresses TW's goal for conservation. The plan states: "Conservation programming is an important element in any comprehensive demand management program. Demand management has been one of the core components of Tucson Water's water resource planning efforts since the early 1970s. The focus of demand management over the last 40 years has shifted from an initial strategy based on reducing peak water demand in the summer months to one with a conservation-driven focus. For Tucson Water, management of available water resources is critical to the community's long-term sustainability. Conservation programs seek to promote more efficient use of existing water resources. The Utility offers rebates for high efficiency toilets, washer machines, and urinals."

**9. Explain how the proposed project has been determined as a priority in the existing planning effort as opposed to other potential projects/measures.** The proposed project was identified as a priority, because many low-income households cannot participate in the rebate programs, because they cannot pay the upfront costs and/or do not have the financial resources to participate.

### **Evaluation Criterion C. Implementation and Results**

#### **1. Implementation Plan for the Proposed Project**

**Program Startup Activities:** This project has very few startup activities, as it is an addition to our existing high-efficiency clothes washer grant and loan program. We'll update our existing materials to include the new grant available to participants.

**Recruitment Activities:** We'll continue our traditional bilingual community health worker method of outreach to recruit participants, which includes conducting neighborhood walks, attending community fairs, giving presentations and conducting home visits. In addition we'll contact households in our database that were unable to participate in the program in the past because of the \$200 cost. We'll also conduct limited online recruitment activities including social media, Facebook Live events, news items and virtual presentations.

**Distribution Activities:** Once a household is recruited they will complete the application process and choose a front load washer from our approved list. We will review the application, verify home ownership, income level, that the property taxes are paid, that they are a TW client, and type and age of washer to be replaced. Approximately every 2-3 weeks, we'll receive quotes from local vendors, choose the vendor, pay for the washers, and coordinate the delivery, installation, and removal of old washer. We currently work with three different suppliers who often provide discounts on our purchases.

PROJECT SCHEDULE								
TASK	QUARTER							
	1	2	3	4	5	6	7	8
1. Update existing materials	X							
2. Contact households in database that previously could not participate	X							
3. Conduct recruitment activities	X	X	X	X	X	X	X	X
4. Receive quotes for washer	X	X	X	X	X	X	X	X
5. Purchase and distribute washers	X	X	X	X	X	X	X	X
6. Complete required reports		X		X		X		X

MILESTONES	
MILESTONE	DATE*
1. 25 washers distributed	9/30/2025
2. 50 washers distributed	3/31/2026
3. 75 washers distributed	9/30/2026
4. 100 washers distributed	3/31/2027

\*Assumes a 3/31/2025 start date

**2. Describe any permits and agency approvals that will be required along with the process and timeframe for obtaining such permits or approvals.** There are no permits required for this project.

**3. Identify and describe any engineering or design work performed specifically in support of the proposed project.** No engineering or design work is required for this project.

**4. Does the applicant have access to the land or water source where the project is located? Has the applicant obtained any easements that are required for the project?** We do not have access yet to the land or water source where the project is located. The washers will be installed at households. Once the households enters the program, they will give permission for the purchase, delivery and installation of the washer.

**5. Identify whether the applicant has contacted the local Reclamation office to discuss the potential environmental and cultural resource compliance requirements for the project and the associated costs. Has a line item been included in the budget for costs associated with compliance?.** We have not contacted the local Reclamation office to discuss the potential environmental and cultural resource compliance requirements for the project and the associated costs, and we have not added a line item for the costs in the budget.

#### **Evaluation Criterion D – Nexus to Reclamation**

**1. Does the applicant have a water service, repayment, or operations and maintenance (O&M) contract with Reclamation?** No, we do not have a water service, repayment, or O&M contract with Reclamation.

**2. If the applicant is not a Reclamation contractor, does the applicant receive Reclamation water through a Reclamation contractor or by any other contractual means?** No, we are not a Reclamation contractor, nor do we receive Reclamation water through a Reclamation contractor or by any other contractual means.

**3. Will the proposed work benefit a Reclamation project area or activity?** No, the proposed work will not directly benefit a Reclamation project area or activity.

#### **Evaluation Criteria E. Presidential and Department of the Interior Priorities(**

##### ***Sub-criterion No. E1. Climate Change***

**Combating the Climate Crisis:** E.O. 14008: *Tackling the Climate Crisis at Home and Abroad*

**1. Please provide specific details and examples on how the project will address the impacts of climate change and help combat the climate crisis.** Energy Star® certified front load washers use about 45% less energy and 50% less water than top load agitator washers, which primarily are the type of washers we are replacing. Using less energy helps reduce the release of greenhouse gases into the atmosphere that contribute to climate change. Reducing water consumption put less strain on limited water resources.

**2. Does this proposed project strengthen water supply sustainability to increase resilience to climate change?** According to [www.energystar.gov](http://www.energystar.gov), a standard, washing machine that is not high-efficiency uses 19 or more gallons of water per load. If we replace 100 old washers with Energy Star® certified washers using 14 gallons per load, each household will save 1,500 gallons of water annually, a savings of 150,000 gallons or about 0.5 acre feet annually for the project.

**3. Does the proposed project contribute to climate change resiliency in other ways not described above?** No water and energy savings are the contributions.

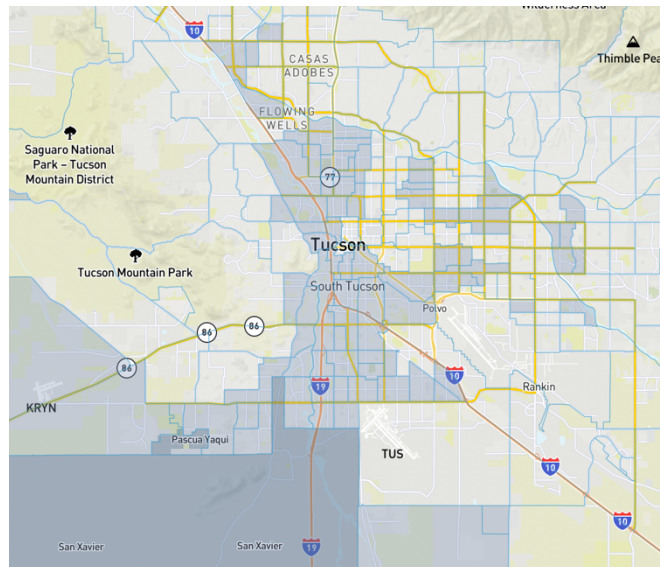
##### ***Sub-criterion No. E2. Disadvantaged or Underserved Communities***

**1. The disadvantaged community that will benefit from your project.** The disadvantaged community that will benefit from our project is primarily the targeted census tracts that have been identified by the Climate and Economic Justice Tool as disadvantaged because they meet at least 1 burden threshold and the associated socioeconomic threshold. A map from the Climate and Economic Justice Tool highlighting the census tracts considered disadvantage is given below. Our programs target residents living in the census tracts with the highest poverty rates in the Tucson metropolitan area. Over 45% of the families in the target area earn below 50% of the Area Median Income (AMI). Over 70% of the families live in pre-1979 housing stock compared to 37% for Tucson. Over 47% of adults lack a high school education compared to just 13% for Tucson. Over 75% in the target area are Hispanic with many linguistically isolated. Nearly 60% of the residents are members of sensitive populations including both children and the elderly (2020 U.S. Census). The *City of Tucson and Pima County Consortium 2020-2024 HUD Consolidated Plan, FFY2020 HUD Annual Action Plans* states that the oldest housing units in the County, those more than 50 years old, are located in the target area. The Arizona Department of Health Services has designated the area as an Arizona Medically Underserved Area. The

target area contains a U.S. Department of Agriculture designated Colonia: South Tucson. Colonias include communities located within 150 miles of the U.S.-Mexico border that meet the federal definition of lacking sewer, wastewater removal, decent housing or other basic services. According to the American Community Survey for 2016-2020 the poverty rates for the targeted ZIP codes were 85706 - 37.1%, 85713 - 30.1%, 85714 - 27.2%, 85716 - 26.1% and 85719 - 38%.

### **Map from the Climate and Economic Justice Tool**

Census tracts considered disadvantaged because they meet at least 1 burden threshold and the associated socioeconomic threshold are highlighted in gray



**2. How the project benefits those disadvantaged or underserved communities identified by the tool.** The disadvantage community will receive high-efficiency clothes washers at no cost and reduce their energy and water usage and consequently reduce their utility bills.

### **(5) Budget Narrative**

We will purchase 100 Energy Star® front load high-efficiency clothes washers that are made in the United States. We will give households the choice of two different brands of front load washers. We currently primarily are purchasing washers from GE and Maytag. Our price for washers from our last purchase was approximately \$950, which included delivery, installation, and removal of the old washer. We will obtain new quotes prior to purchasing washers for this project. The total budget is \$95,000, and we are requesting \$47,500 in Federal funds.

### **(6) Environmental and Cultural Resources Compliance**

**1. Will the proposed project impact the surrounding environment? 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.** This project involves no earth moving activities, as high-efficiency clothes washers are being installed at existing residential households.

**2. 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 species listed or propose to be listed as a Federal threatened or endangered species, or designated critical habitat in the project area. Project activities will not affect any listed species.

**3. 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.** There are no wetlands or other surface waters inside the project boundaries that potentially fall under CWA jurisdiction as “Waters of the United States”. Project activities will not impact wetlands.

**4. When was the water delivery system constructed?** Not applicable. The high-efficiency clothes washers are being installed at residential households.

**5. Will the proposed project result in any modification of or effects to, individual features of an irrigation system?** No, the high efficiency clothes washers are being installed at residential households.

**6. Are any buildings, structures, or features in the irrigation district listed or eligible for listing on the National Register of Historic Places?** No, the high efficiency clothes washers are being installed at residential households.

**7. Are there any known archeological sites in the proposed project area?** No, the high efficiency clothes washers are being installed at residential households.

**8. Will the proposed project have a disproportionately high and adverse effect on low income or minority populations?** No, the project is assisting low income and minority populations.

**9. Will the proposed project limit access to and ceremonial use of Indian sacred sites or result in other impacts on Tribal lands?** No, the high efficiency clothes washers are being installed at residential households.

**10. 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, the high efficiency clothes washers are being installed at residential households.

#### **(7) Required Permits or Approvals**

No permits or approvals are required for this project.

#### **(8) Overlap or Duplication of Efforts Statement**

There is no overlap between the proposed project and any other active or anticipated proposals or projects in terms of activities, costs, or commitment of key personnel. The proposal is not in any way duplicative of any proposal or project that has been or will be

submitted for funding consideration to any other potential funding source, Federal or non-Federal.

**(9) Conflict of Interest Disclosure**

No actual or potential conflict of interest exists at the time of submission of this proposal.

**(10) Uniform Audit Reporting Statement**

SERI was not required to submit a Single Audit report for the most recently closed fiscal year.

## **Appendix I: Letter of Partnership and Funding Commitment**





June 28, 2024

Ann Marie Wolf  
Sonora Environmental Research Institute, Inc.  
3202 E. Grant Road  
Tucson, AZ 85716

RE: Letter of Partnership for WaterSMART Small-Scale Water Efficiency Projects for Fiscal Year 2024 and Fiscal Year 2025

Dear Ms. Wolf:

This letter is to confirm that Tucson Water is acting in partnership with Sonora Environmental Research Institute, Inc. (SERI) and agrees to the submittal and content of SERI's proposal in response to the Notice of Funding Opportunity No. R24AS00059 - WaterSMART Small-Scale Water Efficiency Projects for Fiscal Year 2024 and Fiscal Year 2025. Tucson Water commits to providing \$47,500.00 in cost share funding for the proposed project.

Your proposal, *High-Efficiency Clothes Washer Replacement Program for Low-Income Households*, will greatly increase the installation of high-efficiency clothes washers in low-income households. SERI has successfully been implementing the Limited Income High-Efficiency Clothes Washer Grant and Loan program for the past year. Unfortunately, many low-income households cannot participate even with the current grants and loans available. Purchasing 100 high-efficiency clothes washers, providing additional grants, and implementing a direct-install and replacement program will make high-efficiency clothes washers available to many households that currently cannot financially participate.

This project will increase the capacity of the community to cope with and respond to drought and is consistent with Tucson Water's newly adopted One Water 2100 Plan, which has an emphasis on demand management and delivering equitable conservation & efficiency strategies for our community.

We look forward to working with you on this project.

Sincerely,

John Kmiec, MPA  
Director, Tucson Water

## **Appendix II: Official Resolution from SERI Board of Directors**



## OFFICIAL RESOLUTION

Date: 3 July 2024

**Re: Official Resolution for WaterSMART, Small-Scale Water Efficiency Projects for Fiscal Year 2024 and Fiscal Year 2025 Proposal**

This resolution is to confirm that the Board of Directors of Sonora Environmental Research Institute, Inc. (SERI) has reviewed and supports the application submitted, *High-Efficiency Clothes Washer Replacement Program for Low-Income Households*, in response to the Notice of Funding Opportunity No. R24AS00059 - WaterSMART, Small-Scale Water Efficiency Projects for Fiscal Year 2024 and Fiscal Year 2025 Proposal

Ann Marie Wolf, the President of SERI, is the official with legal authority to enter into an agreement. SERI agrees to work with Reclamation to meet established deadlines for entering into a grant or cooperative agreement.

Signed

Ann Marie Wolf  
President

Signed

Anna H. Spitz  
Secretary/Treasurer

ATTACHMENT A  
BUDGET DETAIL AND NARRATIVE TEMPLATE

Summary			
6. Budget Object Category	Total Cost	Federal Estimated Amount	Non-Federal Estimated Amount
a. Personnel	\$0		
b. Fringe Benefits	\$0		
c. Travel	\$0		
d. Equipment	\$0		
e. Supplies	\$95,000		
f. Contractual	\$0		
g. Construction	\$0		
h. Other Direct Costs	\$0		
i. Total Direct Costs	\$95,000		
i. Indirect Charges	\$0		
Total Costs	\$95,000	\$47,500	\$47,500
Cost Share Percentage		50%	50%

ATTACHMENT A  
BUDGET DETAIL AND NARRATIVE TEMPLATE

### 6e. Supplies

Supplies is defined in §200.1 as all tangible personal property other than those described in the definition of equipment. A computing device is a supply if the acquisition cost is less than the lesser of the capitalization level established by your organization for financial statement purposes or \$5,000, regardless of the length of its useful life. Recommend reviewing **§ 200.453 Materials and Supplies Costs, Including the Costs of Computing Devices**, regarding the allowability of costs. Supply items must be direct costs to the project and not duplicative of supply costs in the indirect rate. For post-award requirements regarding supplies, recommend reviewing **§ 200.314 Supplies**. For financial management requirements related to supplies, recommend reviewing § 200.302(b)(4)

**Narrative:** List all expendable supplies noting their purpose in the project and the basis of cost (e.g. vendor quotes, catalogue prices, prior invoices, etc.) For each item, provide the estimated unit cost, quantity, and total cost. General categories may be used, but if a category is viewed as too general or the associated amount is too high, further itemization may be requested.

Links: [§200.1 Definitions](#)  
[§ 200.453 Materials and Supplies Costs, Including the Costs of Computing Devices](#)  
[§ 200.314 Supplies](#) (post award requirements)  
[§ 200.302\(b\)\(4\)](#) (financial management requirements related to supplies)

#### Supplies

Supply Item	Quantity	Unit Cost	Total Cost	Basis of Cost	Purpose
EXAMPLE!!! Pressure Gage	2	\$102	\$204	vendor quote	to complete column tests in Task 1
EXAMPLE!!! Compression tubing (lf)	10	\$20	\$200	vendor quote	to complete column tests in Task 1
EXAMPLE!!! Peristaltic pump	1	\$3,180	\$3,180	vendor quote	Load and regenerate columns (Tasks 1, 3, 5)
EXAMPLE!!! Instrument consumables (ls)	1	\$1,500	\$1,500	costs from previous project	analytical analyses in Tasks 1 through 6
High-Efficiency Clothes Washers	100	\$950	\$95,000	Costs from previous purchases	To complete project: replacing old washers with high-efficiency washers
			\$0		
			\$0		
			\$0		
			\$0		
			\$0		
			\$0		
Total			\$95,000		

**Additional Narrative/Comments:** We will purchase 100 Energy Star® front load high-efficiency clothes washers that are made in the United States. We will give households the choice of two different brands of front load washers. We currently primarily are purchasing GE washers and some Maytags. Our price for washers from our last purchase was approximately \$950, which included delivery, installation, and removal of the old washer. We will obtain new quotes prior to purchasing washers for this project.