Long Beach Utilities Department
High Efficiency Indoor Devices Program

Long Beach Utilities Department
1800 E Wardlow Rd
Long Beach, CA 90807

Project Manager: Joseph Baquerizo
1800 E Wardlow Rd, Long Beach, CA 90807
Email: joseph.baquerizo@lbwater.org
Phone: 562-570-2335

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Bureau of Reclamation
Notice of Funding Opportunity No. R24AS00059

WaterSMART Grants: Small Scale Water Efficiency Project Grants for FY 2024

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1. Technical Proposal and Evaluation Criteria

1.1. Technical Proposal: Executive Summary

Date	January 16, 2024
Applicant	Long Beach Utilities Department (LBUD)
City	City of Long Beach
County	Los Angeles County
State	California
Applicant Category:	Category A: Water District/local authority with water delivery authority
Project Summary	Long Beach Utilities Departments High Efficiency Indoor Devices Program (Program) will provide residents in multi-family dwelling units and single-family homes with 50 premium high-efficiency toilets, 100 showerheads, 100 bathroom faucets, kitchen aerators and 25 communal clothes washers, and 50 clothes washers in single family residences. The program will also help to identify and fix plumbing leaks. The project is anticipated to result in annual water savings of 9.61 AFY. All devices will be installed by a third-party contractor through a direct-install program. The selected contractor will be responsible for the marketing and outreach to potential site locations, and will encourage applicants to apply directly through LBUD's website to receive approval for needed retrofits. Once approved, the contractor will install the retrofits and will be reimbursed for all work associated with the retrofits by LBUD.
Project Schedule	The Project is scheduled to begin in October of 2024 and run through August 2026.
Federal Facility:	Federal facilities are not eligible to participate in the program.

1.2. Technical Proposal: Project Location

The High Efficiency Indoor Devices Program will be available to residents in the Long Beach Utilities Department service area in Las Angeles County. This encompasses the City of Long Beach and the City of Signal Hill, covering 52 square miles. This is shown in Figure 1.

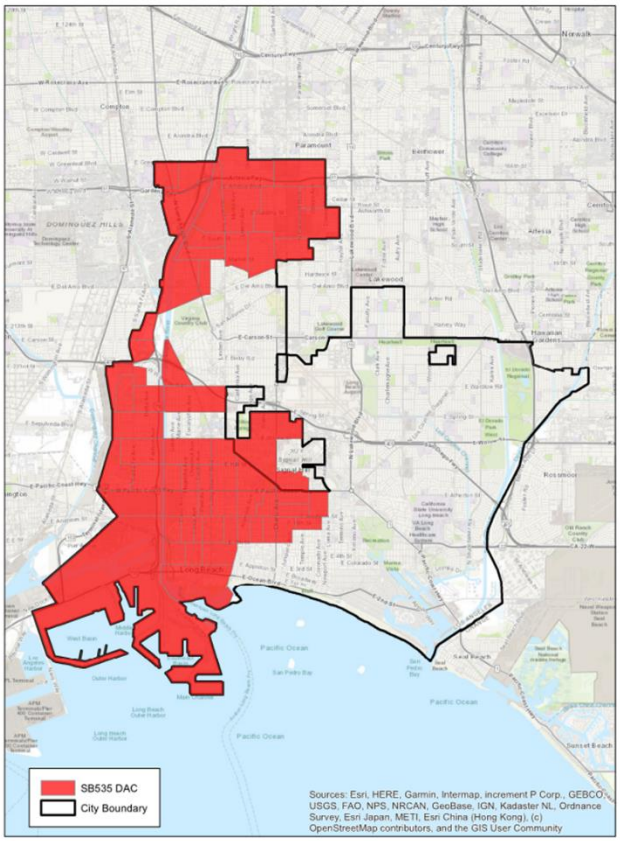

Figure 1. Project Implementation Boundary

1.3. Technical Proposal: Technical Project Description

The Long Beach Utilities Department High Efficiency Indoor Devices Program is a direct-install project curated by LBUD that replaces outdated water fixtures with ultra-water efficient versions to aid in stretching and securing water supplies for future generations. Additional funding from the Bureau of Reclamation will enable this program to continue to provide critical water saving retrofits. This funding would result in the replacement of approximately 50 outdated toilets, 25 coin/card high efficiency clothfes washers (HECWs), 50 single family HECWs, 100 bathroom faucets, and 100 low flow showerheads with more water-efficient models. A third-party contractor will be selected by LBUD to purchase and install ultra-high efficiency toilet options, aerators, low flow showerheads, and coin/card operated high efficiency clothes washers, and to dispose of old fixtures and other waste that may result from the replacements.

This program is a continuation of two successful pilot programs targeting multi-family and single-family customers. The multifamily pilot program conducted between December 2019 through February 2021 installed 3,015 water efficient devices in 711 multifamily units equating to a 26% reduction in monthly water use. A quantifiable 4.36 AF of monthly water saved will

conserve an anticipated 244 AF over the lifetime of the devices installed. The single-family pilot program conducted between September 2022 through September 2023 installed 416 water efficient devices in 165 single-family homes. Although water savings results are still under review for this recent program, preliminary results show a 13% reduction in weekly water consumption in comparison to similar households within the same zip code.

LBUD is seeking additional funding in the amount of $100,000 from Reclamation to build on the success of the two pilot programs so that residents in the LBUD service area can continue to be provided the necessary water use efficiency upgrades that result in water conservation, sustainability and future drought resiliency benefits.

1.4. Technical Proposal: Evaluation Criteria

1.4.1. Evaluation Criterion A: Project Benefits

Describe the expected benefits to the Category A applicant's water delivery system.

Will the project result in more efficient management of the water supply?

Installing more efficient toilets, showerheads, kitchen aerators and HECWs results in direct water savings of approximately 9.6 AFY. The water savings estimates are based on the following assumptions and projections for this project:

According to California Air Resources Board's (CARB) Greenhouse Emission Reduction Calculator for the California Department of Resources, water savings associated with HECWs, showerheads, bathroom aerators, and kitchen aerators will result in an annual water savings of 6.8 AFY. Table 1 below provides the calculator results summary that was used to calculate the water savings estimates for the devices proposed by this project.

Additionally, a water savings of 2.8 AFY is expected through the installation of 50 upgraded water efficient toilet models. This estimate is based on the US Environmental Protection Agency's (EPA) WaterSense statistics, where the average family can save 2.5 gallons per flush and $130 in water costs per year by replacing all old, inefficient toilets in their home with WaterSense labeled models.

In total, combining the 6.81 AFY realized from HECWs, showerheads, and bathroom faucets with the 2.8 AFY realized from new toilet installs, the project will lead to an estimated water savings of **9.6 AFY** per year.

By replacing outdated and less efficient water fixtures with ultra-high efficiency models, the program directly reduces water consumption in households and multi-family residences. The installation of modern toilets, low-flow showerheads, bathroom faucets, and HECWs significantly decreases the volume of water used for everyday activities. For instance, older

toilets and showerheads typically use more water per flush and per minute, respectively, compared to their modern, efficient counterparts. By installing these water-saving devices, the program ensures a substantial reduction in water usage, which directly contributes to conserving the available water supply.

Additionally, the water savings calculation conducted for the installation upgraded water efficient toilet models is based on the US Environmental Protection Agency's (EPA) WaterSense statistics, which estimates that the average family can save 13,000 gallons (0.04 AFY) of water per year by replacing all old, inefficient toilets in their home with WaterSense labeled models.

Table 1. CARB Water Savings Summary

California Environmental Protection Agency
Air Resources Board

California Air Resources Board
Greenhouse Gas Emission Reduction Calculator for the
Department of Water Resources
Water-Energy Grant Program
Greenhouse Gas Reduction Fund
Fiscal Year 2015-16

Version 2 - October 21, 2016

Commercial/Institutional and Residential Results Summary

Residential											
			Annual Savings					Project Savings			
		Quantity	Electricity (kWh)	Gas (therms)	Water (gallons)	Emissions reduction (Metric Tons of CO2e)	Assumed equipment lifetime (years)	Electricity (kWh)	Gas (therms)	Water (gallons)	Emissions reduction (Metric Tons of CO2e)
Dishwasher											
Input (1)		0	0	0	0	0	-	0	0	0	0
Input (2)		0	0	0	0	0	-	0	0	0	0
Input (3)		0	0	0	0	0	-	0	0	0	0
Total		**0**	**0**	**0**	**0**	**0**	**-**	**0**	**0**	**0**	**0**
Clothes Washer											
Input (1)	Single Family	50	375	85	70,000	1	11	4,125	938	770,000	6
	Multi-Family	25	2,248	511	1,160,335	3	7	15,734	3,579	8,122,345	24
Input (2)	Single Family	0	0	0	0	0	-	0	0	0	0
	Multi-Family	0	0	0	0	0	-	0	0	0	0
Input (3)	Single Family	0	0	0	0	0	-	0	0	0	0
	Multi-Family	0	0	0	0	0	-	0	0	0	0
Total		**75**	**2,623**	**597**	**1,230,335**	**4**	**-**	**19,859**	**4,517**	**8,892,345**	**30**
Faucet											
Input (1)	Bathroom	100	0	3,087	423,523	16	10	0	30,870	4,235,231	164
	Kitchen	0	0	0	0	0	-	0	0	0	0
Input (2)	Bathroom	0	0	0	0	0	-	0	0	0	0
	Kitchen	0	0	0	0	0	-	0	0	0	0
Input (3)	Bathroom	0	0	0	0	0	-	0	0	0	0
	Kitchen	0	0	0	0	0	-	0	0	0	0
Total		**100**	**0**	**3,087**	**423,523**	**16**	**-**	**0**	**30,870**	**4,235,231**	**164**
Showerhead											
Input (1)		100	0	4,104	563,016	22	10	0	41,037	5,630,162	218
Input (2)		0	0	0	0	0	-	0	0	0	0
Input (3)		0	0	0	0	0	-	0	0	0	0
Total		**100**	**0**	**4,104**	**563,016**	**22**	**-**	**0**	**41,037**	**5,630,162**	**218**
Total Project GHG Emission Reductions and Other Savings		**275**	**2,623**	**7,787**	**2,216,874**	**42**	**-**	**19,859**	**76,424**	**18,757,738**	**412**

Where any conserved water as a result of the project will go and how it will be used?

Water conserved from this project will result in decreased imported water from strained resources in the Colorado River Basin and the Sacramento-San Joaquin Bay-Delta. The project will also contribute to increased local water supply reliability for the Southern California region by making water supplies available during extreme dry periods. Water savings will remain in storage for other local uses, reducing demand for additional imported water.

Conserved water will remain in the Colorado River Aqueduct (CRA), while also allowing the Metropolitan Water District (MWD) to meet its delivery obligations to its 26 member agencies in Southern California.

LBUD will reduce its water import needs by approximately 9.6 AFY, increasing water reliability for the Southern California region, while also reducing energy costs associated with pumping and conveying water through the CRA.

Explain the significance of the anticipated water management benefits for the Category A applicant's water delivery system and customers. Consider:

Are customers not currently getting their full water right at certain times of year?

Water availability can vary seasonally, especially in Southern California, a region frequently impacted by drought and with distinct wet and dry seasons. During times of drought or reduced rainfall, water rights might be curtailed to preserve limited resources, affecting the amount of water available to LBUD and, by extension, its customers.

Since 2022, drought conditions have significantly impacted Long Beach, leading to the implementation of stricter water conservation measures. The Long Beach Water Commission proposed moving to Stage 2 water shortage, which includes limiting landscape irrigation to two days per week throughout the year, a level of restriction not seen since June 2016. Additionally, the city faced the possibility of further restrictions depending on directives from state and regional water authorities. These measures reflect the ongoing challenges of managing water resources amid prolonged drought conditions in the region.

Does this project have the potential to prevent lawsuits or water calls?

The Program can potentially prevent lawsuits and water calls by significantly reducing water consumption in the LBUD service area. By replacing outdated water fixtures with highly efficient models, the program lowers the water supply demand. This reduced demand can mitigate the risk of over-extraction of shared water resources, which is often a cause of legal disputes (water calls) between different users or regions. Efficient water management also lessens the likelihood of needing to impose strict usage restrictions, a common trigger for legal

challenges or community dissatisfaction. Overall, the Program's success in conserving water can contribute to a more stable and equitable distribution of water resources, thereby reducing the potential for legal conflicts related to water usage and rights.

What are the consequences of not making the improvement?

Not implementing the Program could lead to several negative consequences. Without it, outdated and inefficient water fixtures would continue to be used, leading to higher water consumption. This increased usage could strain the local water supply, especially during drought conditions, potentially leading to stricter water restrictions or rationing. Additionally, the continued use of less efficient fixtures could result in higher water bills for consumers and increased stress on water infrastructure. Over time, failure to conserve water could exacerbate water scarcity issues, impacting the community's long-term sustainability and resilience against future droughts.

Are customer water restrictions currently required?

LBUD implemented Water Shortage Contingency Plan Level 1 on August 1st, 2023, which specifies water use restrictions for residential and commercial customers. Landscape watering is limited to Tuesdays, Thursdays, and Saturdays, with a 10-minute cap per station or until runoff, and only outside the hours of 9 a.m. to 4 p.m. Watering is prohibited during or within 48 hours after rainfall and must avoid runoff to adjacent areas. Additionally, there are regulations on vehicle washing, hardscape cleaning, pool and spa covering, and fountain operation. Commercial entities face additional rules, including restrictions on turf irrigation, water service in restaurants, efficient use of pre-rinse spray nozzles, and guidelines for laundry systems, car washes, and cooling systems.

Other significant concerns that support the need for the project.

The Program is primarily driven by the need to address water scarcity and environmental sustainability. The Southern California region faces the challenges of drought and limited water resources, the Program's focus on replacing inefficient water fixtures with high-efficiency models is crucial. It helps in reducing overall water consumption; thereby, conserving the limited water supply. This is especially significant in the context of climate change and increasing demand for water due to population growth. The program not only contributes to long-term water sustainability but also aids in reducing the environmental impact and carbon footprint associated with water usage and treatment.

Describe the broader benefits that are expected to occur as a result of the project.

Will the proposed project increase collaboration and information sharing among water managers in the region? Please explain.

By setting a precedent in water-saving initiatives, the Program offers a template for collaborative water management efforts. As the program collects data on water usage, savings, and efficiency, it creates an opportunity for water managers across the region to share insights and strategies. This sharing of knowledge can lead to more coordinated regional policies, better resource allocation, and unified action in response to droughts and water shortages. Such collaboration is vital in areas like Southern California, where water resources are shared and interconnected across multiple jurisdictions.

Is the project in an area that is experiencing, or recently experienced, drought or water scarcity? Will the project help address drought conditions at the sub-basin basin scale? Please explain.

Yes, the Program is located in an area that has experienced drought and water scarcity. This program is particularly relevant as it addresses these issues on a local scale, contributing to broader efforts to manage water resources in the region. By improving water efficiency within households and multifamily residences, the program reduces overall water demand, thereby alleviating pressure on the water supply during drought conditions. This localized approach, when replicated across the sub-basin, can collectively make a significant impact in managing water scarcity and mitigating the effects of drought.

As previously mentioned, drought conditions have significantly impacted Long Beach since 2022, leading to the implementation of stricter water conservation measures. The Long Beach Water Commission proposed moving to Stage 2 water shortage, which includes limiting landscape irrigation to two days per week throughout the year, a level of restriction not seen since June 2016. LBUD implemented Water Shortage Contingency Plan Level 1 on August 1st, 2023, which specifies water use restrictions for residential and commercial customers.

Will the project benefit species (e.g., federally threatened or endangered, a federally recognized candidate species, a state listed species, or a species of particular recreational, or economic importance)? Please explain.

Through the water savings experienced by this project, LBUD will help to place less of a burden on the California Bay-Delta, which will assist in the alleviation of stress placed upon the delicate ecosystem and its inhabitants in the Bay-Delta. The Bay-Delta is home to the Delta Smelt, which has been protected by the courts since 2007. In addition to the Delta Smelt, the Bay-Delta is home to other species, such as the spring- and winter-run Chinook salmon, that are threatened and therefore garner protected status. LBUD will help to improve the habitat for these

vulnerable species by making more water available through the conservation achieved by the Program.

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)? Please explain.

The Program is likely to benefit various sectors within its geographic area. By promoting water efficiency and conservation, it can positively impact the environment, reducing the strain on local ecosystems. This, in turn, supports sectors like agriculture, which rely heavily on water availability, by potentially ensuring a more stable water supply. Additionally, efficient water management can enhance recreational activities and tourism, especially in Long Beach, where water-based leisure is important, by sustaining the health of lakes, rivers, and beaches.

Will the project complement work being done in coordination with NRCS in the area(e.g., the area with a direct connection to the districts water supply)? Please explain.

The Program complements efforts by the Natural Resources Conservation Service (NRCS) in the area, especially with efforts aimed at sustainable water management. The NRCS works on projects that enhance water quality and availability in agricultural and rural settings. The program's focus on water efficiency aligns with NRCS's objectives of conserving natural resources, and supports broader regional goals of sustainable water use, benefiting the local water supply and ecosystems.

1.4.2. Evaluation Criterion B: Planning Efforts Supporting the Project

Plan Description and Objectives: Is your project supported by a specific planning document or effort? If so, describe the existing plan. When was the plan developed? What is the purpose and objective of the plan?

The project aligns with the LBUD Water Resources Plan (WRP) (developed in 2019 by LBUD) and Urban Water Management Plan (UWMP). The Water Resources Plan, particularly in its chapter on Water Conservation, underlines strategies for reducing water usage, reflecting the project's goals. The purpose of the WRP is to provide a long-term water resources strategy that meets specified objectives and adapts to changing future conditions such as: (1) threats to local groundwater and imported water; (2) regulatory requirements; and (3) climate change.

The UWMP (developed in 2020 by LBUD), has two purposes: (1) it serves as a plan for the City's reliable water supply and managing water resources consistent with LBUD's goals and policy objectives, and (2) it fulfills LBUD's obligations under the California's Urban Water Management Planning Act.

These plans, developed as part of LBUD's broader strategy, emphasize sustainable water use, conservation, and preparedness for water shortages, closely aligning with the objectives of the High Efficiency Indoor Devices Program.

Plan Development: Who developed the planning effort? What is the geographic scope of the plan? If the planning effort was not developed by the Category A applicant, describe the Category A applicant's involvement in developing the planning effort.

The WRP and UWMP were developed by LBUD and cover the entirety of LBUDs service area. LBUD's potable water service area, located in southwest Los Angeles County, covers roughly 52 square miles, identical to the boundary of the City of Long Beach.

C. Describe to what extend the proposed project is supported by the identified plan.

The Water Conservation Act of 2009 requires urban water agencies to actualize a reduction in per capita water use of 20%, relative to certain specified baseline conditions. LBUD's WRP and UWMP specify meeting this target as a key element in the development of its management strategies. The project directly addresses the need for water conservation programs, serving as a measure for demand management as well prohibitions on end uses for increasingly severe levels of water shortage.

Is the project identified specifically by name and location in the planning effort?

The project is not specifically identified in the WRP and UWMP as these plans were finalized prior to the development of the two pilot projects that inspired the Program. It is anticipated that forthcoming versions of these plans will heavily focus on water conservation efforts like the Program.

Is this type of project identified in the planning effort?

This type of project is consistent with the following district-wide plans:

- LBUD's Water Resources Plan:
  - Chapter 3.2.5 Water Conservation
- LBUD's Urban Water Management Plan (UWMP)
  - Chapter 6: System Supplies
  - Chapter 8: Water Shortage Contingency Planning
  - Chapter 9: Demand Management Measures

Explain whether the proposed project implements a goal, objective, or address a need or problem identified in the existing planning effort?

The proposed project aligns with the goals and objectives identified in the Long Beach Water Resources Plan and Urban Water Management Plan. These plans emphasize the importance of

water conservation and efficient management, particularly in the context of addressing water scarcity and ensuring sustainable water use. The project's focus on replacing inefficient water fixtures with high-efficiency models directly supports these plans by promoting water-saving practices and reducing overall water demand, which is a key aspect of both the Water Resources Plan and the Urban Water Management Plan.

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's prioritization stems from its direct impact on water conservation, a crucial aspect of sustainable water management. These plans prioritize measures that offer substantial and immediate reductions in water usage, especially in drought-prone areas. The project's approach of upgrading to high-efficiency devices aligns with the urgent need for effective water-saving solutions, distinguishing it from other potential projects that might not provide as immediate or significant impact on water conservation.

1.4.3. Evaluation Criterion C: Project Implementation

Describe the implementation plan for the proposed project. Please include an estimated project schedule that shows the stages and duration of the proposed work, including major tasks, milestones, and dates.

The project is essentially shovel-ready upon authorization of grant funding. The project will primarily be executed by a third-party contractor. LBUD will advertise the Request for Proposals (RFP) in the second half of 2024. Once a contractor is selected, and all related contract documents are approved through the LBUD Board, the contractor will initiate project implementation through marketing and outreach to potential applicants within the LBUD service area. Project implementation is anticipated to start 4-6 months after the RFP advertisement.

Interested residents will be able to apply for the program through a Program dedicated website, which is already developed and operational. Once applicant eligibility is verified, the contractor will move forward with scheduling installation. During installation, the contractor will document all existing flow rates of devices prior to removal and submit documentation to LBUD with a summarized report and corresponding itemized invoice covering the previous calendar month's work. The project will be open to applicants until available funds are expended, which are expected to be diminished by August 2026.

Describe any permits and agency approvals that will be required along with the process and timeframe for obtaining such permits or approvals.

No permits will be required to execute the project.

Identify and describe any engineering or design work performed specifically in support of the proposed project. What level of engineering design is the project currently? Additional design is required, describe the planned process and timeline for completing the design.

Through two successful pilot programs, LBUD has evaluated the existing water infrastructure, identifying the most effective high-efficiency devices suitable for the local context, and designed an implementation strategy that minimizes disruption while maximizing water savings. As this Program is a shovel ready direct-install project, no additional engineering or design work is required.

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? If the applicant does not yet have permission to access the project location, describe the process and timeframe for obtaining such permission.

LBUD's selected contractor will secure permission from homeowners who choose to participate in the Program upon verifying the eligibility after they apply. No easements or other permissions will be required to implement the Program.

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? If a contractor will need to complete some of the compliance activities, separate line items should be included in the budget for Reclamation's costs and the contractor's costs.

Environmental and cultural resource compliance requirements are likely not a significant concern. This is because the Program is to be implemented in already developed single and multi-family residences. Therefore, contacting the local Reclamation office for these specific compliance requirements and associated costs will not be necessary. Additionally, since the project focuses on upgrading indoor fixtures within existing structures, the environmental and cultural impact is expected to be minimal, negating the need for a separate budget line item for such compliance costs.

1.4.4. Evaluation Criterion D: Nexus to Reclamation

Is the proposed project connected to a Reclamation project or activity? If so, how? Please consider the following:

Does the applicant have a water service, repayment, or operations and maintenance(O&M) contract with Reclamation?

LBUD does not have direct contracts with Reclamation.

If the applicant is not a Reclamation contractor, does the applicant receive Reclamation water through a Reclamation contractor or by any other contractual means?

LBUD's potable water resources include groundwater pumped from the Central Basin and imported water obtained from the Colorado River and Delta purchased from MWD. MWD imports water from the Colorado River via the CRA which relies on Reclamation facilities to deliver water to its member agencies in Southern California. Specifically, Reclamation owns and operates the Parker Dam which is used to operate Lake Havasu at sustainable levels and to ensure the delivery of Colorado River water to Southern California water agencies such as MWD and sub-agencies, such as LBUD. MWD diverts water from the Colorado River at Lake Havasu to its Sothern California customers, including LBUD, via the CRA. Lastly, LBUD had a partnership with Reclamation and the Los Angeles Department of Water & Power (LADWP), and together operated the country's largest seawater desalination research facility for exploring the feasibility of the "Long Beach Method" which could reduce desalination energy requirements by 20 to 30 percent. The Program reduces the City's demand on imported water, which will result in a reduced burden to Reclamation facilities as well.

Will the proposed work benefit a Reclamation Project area or activity?

By reducing water consumption in the Long Beach area, the program supports broader regional efforts in sustainable water use, which align with the objectives and activities of the Bureau of Reclamation in managing water resources and supporting environmental conservation initiative

1.4.5. Evaluation Criterion E: Presidential and Department of the Interior Priorities

1.4.5.1 Sub-criterion No. E1. Climate Change

Please provide specific details and examples on how the project will address the impacts of climate change and help combat the climate crisis.

California's on-going water crisis, coupled with rapid water supply demand due to increased population growth further emphasizes the need for water conversation programs. This program will allow California to mitigate the next drought cycle, while also laying the foundation for a water-wise culture for the foreseeable future. The Program addresses the impacts of climate change by reducing water consumption, which is crucial in a region prone to drought exacerbated by climate change. By installing water-efficient fixtures, the program directly lowers the amount of water used for daily activities, reducing the strain on water resources. This conservation effort helps mitigate the effects of water scarcity which is a critical issue worsened by climate change. Additionally, efficient water use contributes to energy savings, as less energy is required for water heating and treatment, thereby reducing greenhouse gas emissions. This multi-faceted approach makes the program a valuable tool in combatting the broader climate crisis.

Does this proposed project strengthen water supply sustainability to increase resilience to climate change? Does the proposed project contribute to climate change resiliency in other ways not described above?

This project aims to directly respond to climate change impacts to the region by installing ultra-water efficient devices that will offset the need to import 9.6 AFY through the CRA and California Bay-Delta. Currently, imported water purchases from MWD account for about 40% of LBUD's overall water supply. Therefore, this program will offset 9.6 AFY of current imported water demand and contribute an equal amount towards water supply reliability. Based on CARB's Greenhouse Emission Reduction Calculator for the California Department of Resources, the Program will result in an annual reduction of 42 Metric Tons of CO2e. Although this contributes a small portion of the overall water supply, the program also intends to affect long-term behavioral change in making smart choices to replace outdated and wasteful water fixtures.

1.4.5.2 Sub-criterion No. E2. Disadvantaged or Underserved Communities

E.O. 14008 and E.O. 13985 affirm the advancement of environmental justice and equity for all through the development and funding of programs to invest in disadvantaged or underserved communities. For the purpose of this criterion, Tribes and insular areas (Guam, American Samoa, the Northern Mariana Islands, and the Virgin Islands) are considered disadvantaged.

According to the White House Council on Environmental Quality's interactive Climate and Economic Justice Screening tool, out of the 117 census tracts located within the LBUD service area, 51 are considered disadvantaged. These tracts contain 218,323 people, approximately 44% of the entire customer population of LBUD. The median household income throughout LBUD's service area ($55,151) is lower than that of Los Angeles County ($57,952) and California ($63,783) .

If applicable, describe how the project benefits those disadvantaged or underserved communities identified using the tool. For example, does the project increase reliability of water supplies, improve water quality, provide economic growth opportunities, improve or expand public access to natural areas or recreation, or provide other benefits in a disadvantaged or underserved community?

The project significantly benefits disadvantaged or underserved communities in the LBUD service area. By upgrading to high-efficiency water devices, it increases the reliability of water supplies in these areas, which is crucial given their vulnerability to water scarcity. Improved water efficiency can lead to lower utility bills, providing economic relief to households in these communities. The project also promotes equal access to sustainable water resources, contributing to overall community well-being and resilience, especially in the face of climate change challenges.

1.4.5.3 ***Sub-criterion No. E3. Tribal Benefits***

Does the proposed project directly serve and/or benefit a Tribe? Will the project improve water management for a Tribe?

Native Americans in Long Beach, which primarily belong to the Tongva Tribe, have the lowest median income ($32,866) when compared to other racial/ethnic groups in the LBUD service, with 82% residing in disadvantaged census tracts. The Program will directly support water sustainability for Native Americans in these areas by providing ultra-water efficient fixtures at no cost. This action will lead to less water loss and water consumption overall, leading to a decrease in the overall demand on the water supply system, thereby making it more sustainable going forward.

Does the proposed project support Tribal resilience to climate change and drought impacts or provide other Tribal benefits such as improved public health and safety by addressing water quality, new water supplies, or economic growth opportunities?

Given that all Native Americans that reside in the LBUD service area are eligible for the Program, the project will enable local tribal resilience to climate change and drought by limiting excessive water use, water losses associated with leaks, and decreasing demand on imported water, which will create a reliable water supply for the region given on-going extreme drought and climate change crises.

Does the proposed project support Reclamation's Tribal trust responsibilities or a Reclamation activity with a Tribe?

The Program aligns with the principles outlined in the Secretary's Order 3335, which emphasizes the importance of responsible environmental stewardship, consultation, and collaboration with tribes and indigenous communities. The Program's focus on sustainable water management and conservation is in harmony with the order's commitment to protecting natural resources and ensuring their sustainable use, which is crucial for the well-being of all communities, including those of indigenous peoples.

2. Project Budget

2.1. Funding Plan and Letters of Commitment

LBUD proposes to fund the non-Federal share of the project costs through the following:

- LBUD Water Fund (allocated for FY24 and FY25)

The cost sharing breakdown is provided below in Table 2.

Table 2. Project Funding Breakdown by Source

Funding Sources	Percent of Project Cost	Funding Amount
Non-Federal Entities		
LBUD General Fund	50%	$100,000
Non-Federal subtotal:	50%	$100,000
Other Federal entities		
N/A	0%	$0
Other Federal subtotal:	0%	$0
Requested Reclamation funding:	50%	$100,000
Total project funding:	**100%**	**$200,000**

2.2. Budget Proposal

The total project costs are displayed in Table 3.

Table 3. Total Project Costs

Source	Amount
Costs to be reimbursed with the requested Federal funding	$100,000
Costs to be paid by LBUD	$100,000
Value of third party contributions	$0
TOTAL PROJECT COST	$200,000

The budget proposal for the Program is provided in Table 4.

Table 4. Program Budget Proposal

Budget Item Description	Computation		Quantity Type	TOTAL COST
	$/Unit	Quantity		
Salaries and Wages	-	-	-	**$0.00**
Fringe Benefits	-	-	-	**$0.00**
Travel	-	-	-	**$0.00**
Equipment	-	-	-	**$0.00**

Budget Item Description	$/Unit	Quantity	Quantity Type	TOTAL COST
Supplies and Materials	-	-		**$0.00**
Contractual/Construction	-	-		**$200,000.00**
Program Management, Outreach, and Installation Services (provided by awarded Contractor)	$200,000	1	Lump Sum	$200,000.00
Third Party Contributions	-	-	-	**$0.00**
Other	-	-	-	**$0.00**
TOTAL Direct Costs				**$200,000.00**
TOTAL Indirect Costs				**$0**
TOTAL ESTIMATED PROJECT COSTS				**$200,000.00**

2.3. Budget Narrative

Salaries and Wages

No additional funding is requested for salaries and wages associated with the project.

Fringe Benefits

Not applicable to this project.

Travel

Not applicable to this project.

Equipment

Not applicable to this project.

Materials and Supplies

Not applicable to this project.

Contractual

The entirety of the requested budget is contractual and includes all procurement and installation costs for the device quantities outlined in the technical project description section of this grant application. LBUD aims to open applications for the contractor procurement RFP in the second half of 2024. The application will be open for one month followed by interviews of strongest candidates. Once the bid has been awarded the process of getting Board approval, project registration, etc., work is anticipated to commence 4-6 months after. The selected contractor will be responsible for marketing and outreach to potential site locations and will encourage applicants to apply through LBUD's website. Applications received will be processed to verify they are in LBUD's service area and are a multi-family or single-residential building. If the applicant meets these requirements, their contact information is shared with the contractor

to coordinate a pre-inspection of the units. The contractor is responsible for verifying water devices are inefficient and meet specified requirements in the Scope of Work. Once approved, the contractor will move forward with scheduling installation. During installations, the contractor will document all existing flow rates of devices prior to removal and submit documentation to LBUD with a summarized report and corresponding itemized invoice covering the previous calendar month's work. The contractor will reach out to qualified clients by phone, direct mail, email, and neighborhood outreach to identify clients. The contactor will contact clients and schedule audits, installations and repairs, if necessary. The Contractor will then submit invoices to LBUD for reimbursement and will provide proof of installation, including receipts, photos, and back up documentation.

Third-Party In-Kind Contributions

Not applicable to this project.

Environmental and Regulatory Compliance

Not applicable to this project.

Other Expenses

Not applicable to this project.

Indirect Costs

Not applicable to this project.

3. Environmental and Cultural Resources Compliance

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 Program is designed to be minimally invasive regarding the surrounding environment. Since the project involves replacing indoor water fixtures in existing residential buildings, it does not entail significant earth-disturbing work. Consequently, the impact on soil, air quality, water quality and quantity, and animal habitats is expected to be negligible. Any minor disturbances, such as small-scale disposal of old fixtures or minor installation work, can be managed to minimize environmental impact. The project, therefore, aligns with environmentally responsible practices, focusing on water conservation without adversely affecting 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?

There are no known threatened or endangered species, or any designated critical habitat within the LBUD service 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.

As the project is focused on indoor water fixture replacements in existing residential settings, the direct impact on such waters is minimal.

When was the water delivery system constructed

LBUD's potable water system consists of two primary pressure zones and is primarily fed by treated groundwater from LBUD's centralized Groundwater Treatment Plant (GWTP) and supplemented by eight imported water connections. The potable distribution system includes two tank farms, three booster stations, 7,000+ hydrants and over 94,000 active service connections. With approximately 916 miles of transmission and distribution pipelines. The system was established in 1911 but has seen multiple renovations over the past 100+ years.

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 project will not impact outdoor water infrastructure directly related to irrigation.

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

One structure and 15 buildings within the LBUD service area are listed on the National Register of Historic Places.

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

There are no known archeological sites in the proposed project area.

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

The Program is designed to benefit all customers, including low-income and minority populations, by improving water efficiency and potentially reducing water bills. Since the project focuses on upgrading indoor water fixtures in existing homes, it should not have a disproportionately high and adverse effect on these populations. In fact, by promoting water conservation and efficiency, the program can provide economic and environmental benefits that are especially valuable to underserved communities.

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

The Program is unlikely to limit access to, or ceremonial use of, Indian sacred sites. Moreover, it should not result in impacts on tribal lands. This project is conducted within the confines of existing residential infrastructure and doesn't involve new construction or land development that could affect such sites.

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?

The Program, being focused on indoor water fixture replacements in existing buildings, is unlikely to contribute to the introduction, continued existence, or spread of noxious weeds or non-native invasive species. The nature of the project does not involve activities typically associated with the spread of such species, such as land clearing or construction that might disrupt local ecosystems.

4. Required Permits or Approvals

No permits will be required for LBUD to execute the project

5. Overlap or Duplication of Effort Statement

There is no known overlap or duplication of effort associated with the project.

6. Conflict of Interest Disclosure Statement

There is no known actual or potential conflicts of interest exist at the time of this application. LBUD will report any identified conflicts of interests during the project's lifespan directly to Reclamation.

7. Uniform Audit Reporting Statement

LBUD acknowledges the requirement for a Single Audit report and has/will continue to comply with this requirement. LBUD was not required to submit a Single Audit report for the most recently closed fiscal year.

8. Certification Regarding Lobbying

LBUD is not requesting more than $100,000 for this project and is not required to certify the statements in 43 CFR §18, Appendix A.

9. SF-LLL: Disclosure of Lobbying Activities

A disclosure of lobbying activities has been included. Please see the attached SF-LLL form.

10. Letters of Support

LBUD has received letters of support from the Metropolitan Water District, Alliance for Water Efficiency, California Water Efficiency Partnership and from the Wrigley Association. These letters can be found in Appendix A.

11. Official Resolution

LBUD's Board of Directors will adopt an official resolution approving this project upon grant award.

12. Letters of Funding Commitment

The letter of commitment from LBUD can be found in Appendix B.

Appendix A: Letters of Support

THE METROPOLITAN WATER DISTRICT
OF SOUTHERN CALIFORNIA

Office of the General Manager

January 12, 2024

WaterSMART Grants Program Coordinator
US Bureau of Reclamation
PO BOX 25007, MS 84-27133
Denver, CO 80225

Letter of Support for Long Beach Utilities Department's High Efficiency Indoor Devices Program Grant Application for the WaterSMART Small-Scale Water Efficiency Program

The Metropolitan Water District of Southern California (Metropolitan) is pleased to provide this letter in support of the Long Beach Utilities Department's (LBUD) application to secure grant funding for its Long Beach Utilities High Efficiency Indoor Fixtures Program through the United States Bureau of Reclamation's (UBSR) WaterSMART Small-Scale Water Efficiency grant program.

The Long Beach Utilities High Efficiency Indoor Devices Program is designed to replace inefficient devices at customer properties located in the LBUD service area. At zero cost to LBUD's utility customers, an LBUD procured contractor will provide an onsite survey to review the customers' existing inefficient devices, remove and discard those devices and replace them with high efficiency EPA WaterSense labeled water devices. This direct installation program provides customers with a hands-free, full-service installation managed by LBUD. These high efficiency device installations provide water savings to decrease the cities' future resource demands, improve demand availability to neighboring utilities and ecosystems and passively assist customers with saving money on their monthly bill.

Long Beach is one of Metropolitan's 26 public member agencies that together serve 19 million people in Southern California. Together, Southern Californians have adapted to a water wise lifestyle, using less water today than we did in 1990. However, with the severity of past droughts and projected long-term impacts of climate change, it is important to continue reducing our water demands across our region. Given these reasons, Metropolitan strongly supports LBUD's pursuit of grant funds for this effort.

Sincerely,

Gary Tilkian
Interim Manager, Water Efficiency Team
Metropolitan Water District of Southern California

WaterSMART Grants Program Coordinator
US Bureau of Reclamation
PO BOX 25007, MS 84-27133
Denver, CO 80225

Subject: Letter of Support for Long Beach Utilities Department's (LBUD) High Efficiency Indoor Devices Program Grant Application for the WaterSMART Small-Scale Water Efficiency Program

The Alliance for Water Efficiency (AWE) is pleased to provide this letter in support of the Long Beach Utilities Department's (LBUD) application to secure grant funding for its Long Beach Utilities High Efficiency Indoor Fixtures Program through the United States Bureau of Reclamation's (UBSR) WaterSMART Small-Scale Water Efficiency grant program.

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Together, Southern Californians have adapted to a water-wise lifestyle, using less water today than we did in 1990. However, with the severity of past droughts and the projected long-term impacts of climate change, it is important to continue reducing our water demands across our region. Given these reasons, AWE strongly supports LBUD's pursuit of grant funds for this effort.

Sincerely,

Ron Burke
President and CEO
Alliance for Water Efficiency

CALIFORNIA WATER EFFICIENCY PARTNERSHIP

A Chapter of the Alliance *for* Water Efficiency

December 29, 2023

WaterSMART Grants Program Coordinator
US Bureau of Reclamation
PO BOX 25007, MS 84-27133
Denver, CO 80225

Subject: Letter of Support for Long Beach Utilities Department High Efficiency Indoor Devices Program WaterSMART Grant Application

To Whom it May Concern:

The California Water Efficiency Partnership is pleased to provide this letter in support of the Long Beach Utilities Department's application to secure grant funding for its Long Beach Utilities High Efficiency Indoor Fixtures Program through Reclamation's WaterSMART Small-Scale Water Efficiency grant program.

The Program is designed to replace inefficient devices at customer properties located in the LBUD service area. At zero cost to LBUD's utility customers, an LBUD-procured contractor will provide an onsite survey to review the customers' existing inefficient devices, remove and discard those devices, and replace them with high efficiency EPA WaterSense-labeled water devices.

This direct installation program provides customers with a hands-free, full-service installation managed by LBUD. These high efficiency device installations provide water savings to decrease the city's future resource demands, improve demand availability to neighboring utilities and ecosystems, and passively assist customers with saving money on their monthly bill.

Southern Californians have adapted to a water-wise lifestyle, using less water today than was used in 1990. However, with the severity of past droughts and the projected long-term impacts of climate change, it is important for Long Beach customers to continue reducing water demands. Given these reasons, CalWEP strongly supports LBUD's pursuit of grant funds for this effort.

Sincerely,

Sarah Foley
Executive Director, Operations

901 F Street, Ste 225 | Sacramento, CA 95814
P 916-552-5885 | W CALWEP.ORG

P.O. Box 16192, Long Beach, CA 90806
wrigleyassociation@gmail.com

January 2, 2024

WaterSMART Grants Program Coordinator
US Bureau of Reclamation
PO BOX 25007, MS 84-27133
Denver, CO 80225

Subject: Letter of Support for Long Beach Utilities Department's (LBUD) High Efficiency Indoor Devices Program Grant Application for the WaterSMART Small-Scale Water Efficiency Program

To whom it may concern:

The Wrigley Association is pleased to provide this letter in support of the Long Beach Utilities Department's (LBUD) application to secure grant funding for its Long Beach Utilities High Efficiency Indoor Fixtures Program through the United States Bureau of Reclamation's (UBSR) WaterSMART Small-Scale Water Efficiency grant program.

The Long Beach Utilities High Efficiency Indoor Devices Program is designed to replace inefficient devices at customer properties located in the LBUD service area. At zero cost to LBUD's utility customers, an LBUD procured contractor will provide an onsite survey to review the customers' existing inefficient devices, remove and discard those devices and replace them with high efficiency EPA WaterSense labeled water devices. This direct installation program provides customers with a hands-free, full-service installation managed by LBUD. These high efficiency device installations provide water savings to decrease the cities' future resource demands, improve

demand availability to neighboring utilities and ecosystems and passively assist customers with saving money on their monthly bill.

Together, Southern Californians have adapted to a water wise lifestyle, using less water today than we did in 1990. However, with the severity of past droughts and projected long-term impacts of climate change, it is important to continue reducing our water demands across our region. Given these reasons, the Wrigley Association strongly supports LBUD's pursuit of grant funds for this effort.

Sincerely,

Wrigley Association

Appendix B: Letter of Funding Commitment

LONG BEACH Utilities
Water · Gas · Sewer

CHRISTOPHER J. GARNER, General Manager

1800 E. Wardlow Road, Long Beach, CA 90807

December 20, 2023

WaterSMART Grants Program Coordinator
US Bureau of Reclamation
PO BOX 25007, MS 84-27133
Denver, CO 80225

Subject: **Letter of Commitment for LBUD's High Efficiency Indoor Fixtures Program**
WaterSMART Small-Scale Water Efficiency Grant Application

To Whom it May Concern:

Please accept this letter as funding commitment from the Long Beach Utilities Department (LBUD) to execute the High Efficiency Indoor Fixtures Program.

The total cost of completing this plan is estimated at $200,000. The LBUD is requesting funding from the US Bureau of Reclamation (USBR) WaterSMART Small-Scale Water Efficiency Grant Program in the amount of $100,000 and is committed to providing the remaining $100,000, or 50% in matching funds. The matching funds will be from our Department Water Fund. Funds are budgeted and available for Fiscal Year 2024 and Fiscal Year 2025. LBUD is prepared to commence work on the program as soon as funding is available.

If you have any questions, please contact me by email at dani.lima@lbwater.org or by phone at (562) 760-8181.

Sincerely,

Dani Lima
Administrative Analyst, Grants Manager
Long Beach Utilities Department

LONG BEACH Utilities
Water · Gas · Sewer

CHRISTOPHER J. GARNER, General Manager

1800 E. Wardlow Road, Long Beach, CA 90807

December 20, 2023

WaterSMART Grants Program Coordinator
US Bureau of Reclamation
PO BOX 25007, MS 84-27133
Denver, CO 80225

Subject: **Letter of Commitment for LBUD's High Efficiency Indoor Fixtures Program WaterSMART Small-Scale Water Efficiency Grant Application**

To Whom it May Concern:

Please accept this letter as funding commitment from the Long Beach Utilities Department (LBUD) to execute the High Efficiency Indoor Fixtures Program.

The total cost of completing this plan is estimated at $200,000. The LBUD is requesting funding from the US Bureau of Reclamation (USBR) WaterSMART Small-Scale Water Efficiency Grant Program in the amount of $100,000 and is committed to providing the remaining $100,000, or 50% in matching funds. The matching funds will be from our Department Water Fund. Funds are budgeted and available for Fiscal Year 2024 and Fiscal Year 2025. LBUD is prepared to commence work on the program as soon as funding is available.

If you have any questions, please contact me by email at dani.lima@lbwater.org or by phone at (562) 760-8181.

Sincerely,

Dani Lima
Administrative Analyst, Grants Manager
Long Beach Utilities Department

WaterSMART Grants Program Coordinator
US Bureau of Reclamation
PO BOX 25007, MS 84-27133
Denver, CO 80225

Subject: Letter of Support for Long Beach Utilities Department's (LBUD) High Efficiency Indoor Devices Program Grant Application for the WaterSMART Small-Scale Water Efficiency Program

The Alliance for Water Efficiency (AWE) is pleased to provide this letter in support of the Long Beach Utilities Department's (LBUD) application to secure grant funding for its Long Beach Utilities High Efficiency Indoor Fixtures Program through the United States Bureau of Reclamation's (UBSR) WaterSMART Small-Scale Water Efficiency grant program.

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Sincerely,

Ron Burke
President and CEO
Alliance for Water Efficiency

THE METROPOLITAN WATER DISTRICT
OF SOUTHERN CALIFORNIA

Office of the General Manager

January 12, 2024

WaterSMART Grants Program Coordinator
US Bureau of Reclamation
PO BOX 25007, MS 84-27133
Denver, CO 80225

Letter of Support for Long Beach Utilities Department's High Efficiency Indoor Devices Program Grant Application for the WaterSMART Small-Scale Water Efficiency Program

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Sincerely,

Gary Tilkian
Interim Manager, Water Efficiency Team
Metropolitan Water District of Southern California

CALIFORNIA WATER EFFICIENCY PARTNERSHIP

A Chapter of the Alliance *for* Water Efficiency

December 29, 2023

WaterSMART Grants Program Coordinator
US Bureau of Reclamation
PO BOX 25007, MS 84-27133
Denver, CO 80225

Subject: Letter of Support for Long Beach Utilities Department High Efficiency Indoor Devices Program WaterSMART Grant Application

To Whom it May Concern:

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Sincerely,

Sarah Foley
Executive Director, Operations

P.O. Box 16192, Long Beach, CA 90806
wrigleyassociation@gmail.com

January 2, 2024

WaterSMART Grants Program Coordinator
US Bureau of Reclamation
PO BOX 25007, MS 84-27133
Denver, CO 80225

Subject: Letter of Support for Long Beach Utilities Department's (LBUD) High Efficiency Indoor Devices Program Grant Application for the WaterSMART Small-Scale Water Efficiency Program

To whom it may concern:

The Wrigley Association is pleased to provide this letter in support of the Long Beach Utilities Department's (LBUD) application to secure grant funding for its Long Beach Utilities High Efficiency Indoor Fixtures Program through the United States Bureau of Reclamation's (UBSR) WaterSMART Small-Scale Water Efficiency grant program.

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