Central Anaheim Smart Irrigation Controller Project

WaterSMART Small-Scale Water Efficiency Grant Program

April 28, 2022

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ANAHEIM

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City of Anaheim
Smart Irrigation Controller Project

TECHNICAL PROPOSAL

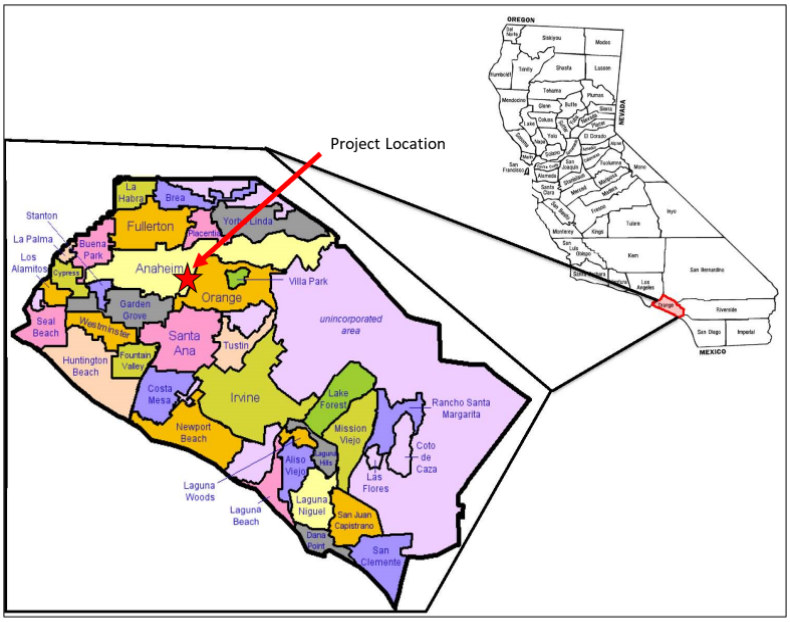
Executive Summary

Date: April 28, 2022
Applicant Name: City of Anaheim
City, County, State: Anaheim, Orange County, California
Category A Applicant

Project Summary

The City of Anaheim proposes to install weather-based smart controller irrigation systems in ten (10) of its fifty-five (55) public parks located in north-central Anaheim, a disadvantaged and low-income community. According to the U.S. Environmental Protection Agency WaterSense website, as much as 50% of outdoor landscape water is wasted due to inefficiencies in irrigation methods and systems. Irrigation control technologies can significantly reduce overwatering by applying water only when plants need it. After researching costs and potential for water savings, the City of Anaheim identified Calsense WeatherSense-certified irrigation controllers (EPA WaterSense label indicating water efficiency and performance standards) as the preferred equipment needed for each of the project location sites. Upon purchase of equipment, City staff (with support from Calsense) will be responsible for replacing the existing outdated irrigation equipment with new, more efficient Calsense controllers, sensors, and accessories. The City requests $100,000 (45% of the total project cost) from the Bureau of Reclamation and will contribute $122,430 (55%) in local matching funds. This installation of the WBIC systems will be streamlined and is anticipated to take approximately 18 months to complete. Assuming a grant award notification in April 2023, and an executed contract by June 2023, all work will be completed by December 2024. This project is not located on a Federal facility.

Figure 1. Project Location



Project Location

The City of Anaheim is located in Orange County, California, has a population of 349,000, and is the 10th most populous city in the

State of California. Centrally located in Southern California, Orange County is bordered by Los Angeles County to the north, San Diego County to the south and San Bernardino and Riverside Counties to the east. Anaheim is approximately 30 miles southeast of Los Angeles and 15 miles east of the Port of Los Angeles and Port of Long Beach. Several major freeways traverse the City, including Interstate 5, State Route 57, and State Route 91. The proposed project will be conducted in 10 of Anaheim's 55 public parks located in north-central Anaheim, in disadvantaged communities (as identified by pollution burden as per the CalEnviroScreen 4.0 mapping tool, 0 being the best and 100 the worst). Location details of the project sites follows in the table below.

Figure 2. Location Details

Park Name	Address	Latitude	Longitude	Census Tract	CalEnviroScreen DAC Status
Citrus Park	104 S Atchison St	33.835892	-117.906220	6059087300	86
Colony Park	501 E Water St	33.830046	-117.906522	6059087401	83
Edison Park	1145 N Baxter St	33.849554	-117.894899	6059086404	88
George Washington Park	250 E Cypress St	33.837616	-117.912283	6059087300	86
John Marshall Park	2001 W La Palma Ave	33.848077	-117.953066	6059086701	81
La Palma Park	1151 N La Palma Pkwy	33.847632	-117.923362	6059086501	86
Little Peoples Park	220 W Elm St	33.831458	-117.914957	6059087300	86
Manzanita Park	1260 N Riviera St	33.853016	-117.928385	6059086601	90
Pearson Park	400 N Harbor Blvd	33.838079	-117.918766	6059087300	86
Walnut Grove Park	905 S Anaheim Blvd	33.822025	-117.910527	6059087405	97

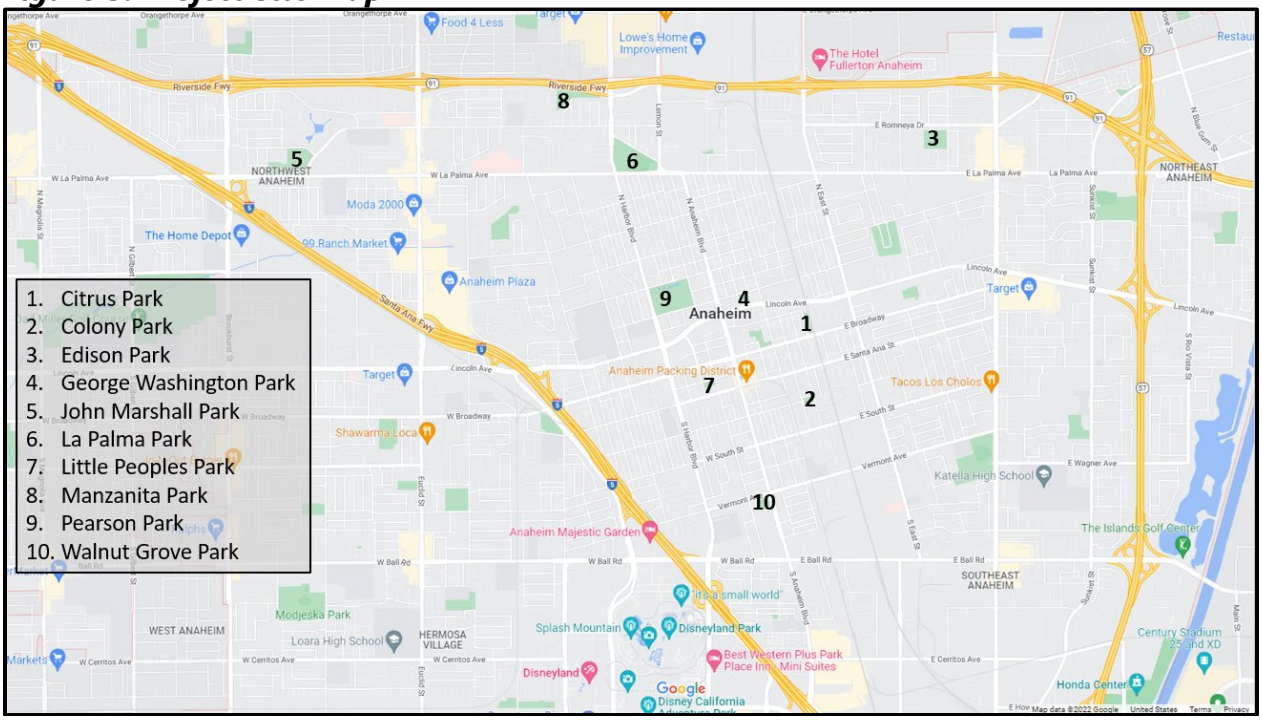
Anaheim produces 18,184 million gallons of water annually, maintains 758 miles of water mains and serves nearly 349,000 residents through 64,168 water meters across a

49-square-mile service area. Approximately 70% of the City's water comes from local groundwater, accessed through one of the 18 wells maintained by the Anaheim Public Utilities (APU) Water Services. Nearly all remaining water needs are met with water imported from the Metropolitan Water District (MWD) - water from the Colorado River, a BOR facility - and the State Water Project (SWP), with a small percentage comprised of recycled water generated by the City's recycled water treatment facility. Approximately 58% of the City's water demand comes from residential use, with the remaining 41% used by Commercial, Industrial, Institutional (CII) meters, and 1% for "other uses" and system losses. Total demand is projected to increase as population grows in the region. The City's population is anticipated to increase by 13% by 2045. In addition, Anaheim welcomes a significant number of visitors year-round (approximately 25 million each year, pre-pandemic) at its many convention and visitor venues.

Technical Project Description

The proposed project will replace the current inefficient irrigation systems with Weather-Based Irrigation Controllers (WBICs) in ten (10) of the City's fifty-five (55) public-owned parks (see Figure 3 for details). The City anticipates using Calsense Resource Management System (Calsense) to purchase the WBIC systems. The systems upgrade for the project will include model CS3000, which is capable of transmitting data to a cloud-based online web application.

Figure 3. Project Site Map



Problem: The existing irrigation systems at each of the 10 parks are inefficient, manually programmed systems that do not account for key factors such as changing weather or soil moisture. Anaheim staff must physically go onsite or use a dial-up modem connection to manage the controllers, which can be extremely frequent due to changes in the weather. The Environmental Protection Agency (EPA) estimates that as much as 50% of outdoor water use in the United States is wasted, in part due to overwater caused by inefficiencies in irrigation methods and systems. WBICs are an effective and efficient solution in that they act like a thermostat for a sprinkler system, applying water to plants and turf only when needed. These controllers use weather data to measure the amount of water that evaporates from the soil surface or used by plants, to automatically adjusting the irrigation to deliver only enough water to meet the plant needs[1]. The smart system uses local weather and landscape conditions to customize watering schedules to actual conditions on the site which significantly reduces overwatering. In addition, the new smart system will send alerts to City staff if there is a water line break or sprinkler head break, as well as sudden flow increases that require a physical site check.

Scope of Work: The project scope of work (SOW) is relatively simple and streamlined, and is detailed in Evaluation Criteria C—Implementation and Results. The City will purchase Calsense CS3000 controllers, sensors, and accessories (see Figure 4 for details) and replace all existing irrigation controllers in the ten identified parks. The scope of work includes removing the existing equipment, installing new controllers, antennas, and related components; furnishing and installing antenna cable; furnishing and installing new conduit, wire, and trenching as needed; furnishing and installing new gate valves; and programming the new systems. In addition, the City will have the ability to control

Figure 4. Calsense WBIC Detail

[1] SmartWater Application Technologies. https://www.irrigation.org/SWAT/Water-Efficient-Products/Weather-Based-Controllers/SWAT/Water-Efficient-Products/Weather-Based-Controllers.aspx

the irrigation controllers from their City issued smart devices. The app installed on the smart devices will enable City staff to apply water as needed through an app and will be secure with date and time stamp activity. The City will monitor the new systems for one year to provide a comparison of current water usage vs. historical water data.

Evaluation Criteria

E.1.1 Evaluation Criterion A—Project Benefits

Benefits to the Category A Applicant's Water Delivery System:

The Anaheim distribution system is comprised of 751 miles of water mains, one earthen untreated reservoir with a capacity of 920 million gallons, and 12 treated reservoirs with a capacity of nearly 29 million gallons. The City treats over 15 million gallons of water a day at its own treatment facility and maintains 17 interconnections with neighboring cities and water districts to supply water during emergency situations. Even though Anaheim is fortunate to receive about 70% of its water from the Orange County Groundwater Basin (managed by the Orange County Water District), the City is still subject to the regional issue of lower storage in reserves. Without enough rainfall in Southern California these reserves do not get replenished. The region is in significant drought – experiencing the driest time in 100 years, and California is in its second extreme drought in ten years.

Reduces Water Use and Water Demand: The most significant benefit of installing WBICs is that this technology will help to drastically reduce overwatering in the City parks, by applying water to plants only when needed, and adjusting automatically during rain events. The controllers will be monitored remotely from City issued smart devices, enabling staff to make necessary changes with a few easy "clicks" vs. having to travel to each location to manually adjust the systems or dial-in on an antiquated modem system. Industry standards (EPA), estimate that WBICs can lead to a 50% reduction in water usage. More conservatively, the City estimates that it could reduce water use by 77,014 cubic feet (7,701,745 gallons) annually at these ten City parks.

Improves Water Supply Reliability: The implementation of this project improves overall water supply reliability by reducing the amount of imported water the City needs to purchase from MWD. As periods of extreme drought continue, the availability of imported water will become more scarce – potentially leading to significant water shortages. Local water supplies reduce this threat and keep the cost of water, particularly for disadvantaged communities, in check.

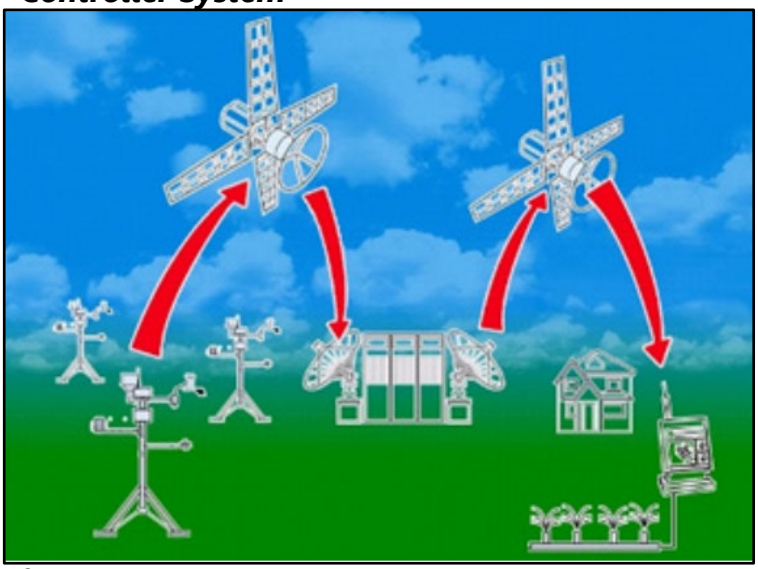
Reduces Operation and Maintenance Costs: Implementation of the wireless WBICs reduces the time needed for staff to be physically onsite, or to dial-in to an error prone and antiquated system to manage the irrigation systems, thereby reducing Operation and Maintenance costs.

Increased Recreation Opportunities: During times of drought and/or drought conditions, the first step in water conservation is to discontinue landscape irrigation. The proposed project will enable the City to continue providing the minimum water needed to keep local green spaces and parks alive and available for recreation and exercise opportunities in times of low-water weather events.

Broader Benefits:

Improved Broader Water Supply Reliability: The City relies on a combination of imported water, local groundwater, and a small amount of recycled water to meet its water needs. The City works together with two primary agencies, MWD and OCWD to ensure a safe and reliable water supply that will continue to serve the community in periods of drought and shortage. The City's main source of water supply is groundwater from the Orange County Groundwater Basin (OC Basin). The City has historically relied on approximately 70 percent groundwater (previous 10-year average) and 30 percent imported water from Metropolitan to supply its customers. The proposed project has the capability to improve broader water supply reliability through the conservation of water. The EPA states that utilizing a WaterSense WBIC can save an average home nearly 7,600 gallons of water annually. Applied to every home in the United States, 220 billion gallons of water or approximately $2.5 billion in

Figure 5. Example of Weather-Based Irrigation Controller System



Source: https://www.sandiegocounty.gov/content/dam/sdc/parks/Development_Photos/Documents/DPRWaterConservationPlan.pdf

water costs could be saved, simply by not overwatering lawns and landscapes[2]. Municipalities, such as Anaheim, can contribute to these savings by taking similar actions. The selected Calsense WBICs hold the EPA WaterSense label indicating that it conforms to the EPA criteria to meet watering needs without overwatering. Specifically, these controllers reduce water waste outdoors while keeping landscapes healthy.

Increased Collaboration: The project is consistent with one of the primary objectives identified as part of a local intensive stakeholder planning process led by the Orange County Water District (OCWD): to enhance local water supplies. This objective, and the local planning efforts, are discussed and incorporated in the Santa Ana Watershed Project Authority's (SAWPA's) One Water One Watershed (OWOW) 2.0 document. OWOW 2.0 has been adopted and submitted to the California Department of Water Resources as the region's Integrated Regional Watershed Management Plan (IRWMP).

Positive Impacts/Benefits to Various Sectors and Economies: The City receives 15 million visitors annually. The proposed project makes more water available to meet these demands and keeps the City looking nice and therefore more attractive for visitors.

NRCS Collaboration: The amount of water used for irrigation of major crops is insignificant and therefore, work being done with NRCS is not applicable to this project.

Drought: On October 19, 2021, Governor Newsom issued a proclamation declaring all counties in the state of California in a State of Emergency due to a statewide drought. During this declaration, he asked for all Californians to voluntarily reduce their water consumption by 15%. Further, on March 28, 2022, the Governor asked local water suppliers to move to Level 2 of their Water Shortage Contingency Plans, requiring local actions to conserve water across all sectors – following the driest first three months of a year in the state's history. Future water resources in Southern California will be challenged by political and environmental limitations, continued growth, and the need to develop new water supplies. As previously mentioned, Anaheim's water supply is a blend of groundwater from City wells and water imported from Northern California and the Colorado River. The WBICs can assist with increasing water efficiencies, by only watering when necessary, freeing up water supplies during times of drought. Any reduction in water use, as will result from the proposed project, reduces the draw on the sub-basin as well as the need for imported water.

[2] EPA Weather-Based Irrigation Controllers. https://www.epa.gov/watersense/weather-based-irrigation-controllers

E.1.2 Evaluation Criterion B—Planning Efforts Supporting the Project

Water use efficiency is increasingly essential for sustaining adequate and reliable water supplies for Southern California. The City of Anaheim has taken numerous actions to prepare for statewide dry conditions through sound water management and planning. However, to remain resilient, the City must continue to plan for future drought-related impacts by modernizing water systems and investing in innovative and sustainable projects, such as the smart irrigation controller project being proposed by the City.

Plan Development:

City of Anaheim 2020 Urban Water Management Plan: The UWMP provides a detailed summary of present and future water supplies and demands and provides an assessment of the City's water resource needs. The plan provides water supply planning for a 25-year period and identifies water supplies needed to meet existing and future demands. In addition, recommendations are made to enhance water efficiencies, inclusive of upgrading irrigation systems to WBICs where needed.

Water Reduction Plan I of the Water Conservation and Water Shortage Contingency Rules and Regulations: As identified in the City of Anaheim Water Reduction Plan, installing and maintain weather-based irrigation controllers in a large landscape area (supporting a business necessity or public benefit uses, including parks) are a recommended option for reducing water usage in the City.

Anaheim Greenhouse Gas Reduction Plan – Sustainable Electric & Water Initiatives (2020): The plan focuses on Anaheim's electric and water resources to be sustainable and environmentally-friendly, while continuing to be affordable and reliable for the benefit of customers. The plan states that reducing the amount of water consumption per person corresponds to a reduction in energy to distribute water, and therefore contributes to the reduction of GHG emissions.

Support for the Project:

City of Anaheim Urban Water Management Plan: The plan states that "eligible weather-based irrigation controllers" are those that are approved by the MWD or the Irrigation Association Smart Water Application Technologies initiative – both of which the proposed smart controllers are approved under.

Water Reduction Plan I of the Water Conservation and Water Shortage Contingency Rules and Regulations: Several of the proposed parks present a large landscape area, in which the WBICs will help to reduce water usage in the City. La Palma Park is 21 acres, Pearson Park is 19 acres, John Marshall Park is 15 acres, Manzanita and Edison Park are

7.5 acres each, and Walnut Grove Park and George Washington Park are 3 acres each – illustrating the potential for water conservation on these publicly owned lands.

Anaheim Greenhouse Gas Reduction Plan – Sustainable Electric & Water Initiatives (2020): As identified in the plan, some future savings will come from the replacement of inefficient lawns and appliances. The proposed WBICs to be installed in the parks contribute to these efforts in that the replacement of inefficient lawn irrigation will result in savings – both financially and in energy.

E.1.3 Evaluation Criterion C—Implementation and Results

The proposed request, to install WBIC systems in 10 of Anaheim's public parks, is a "shovel ready" and simple project. The proposed equipment has already been identified and City staff, with the support of the Calsense team, will be utilized to install the systems at each park. The Calsense equipment will be purchased from a distributor for Calsense Resource Management System, and Calsense will provide factory-direct, pre- and post-sales support at no charge for the life of the system. Anaheim staff will be trained on the use and functions of the Calsense technology for optimum results, leading to the best long-term value for money invested. No easements, permits, or approvals are required for this project, and no new policies or administrative actions are required to implement the project. The engineering and design work for the system is already complete, leaving the project ready to commence upon receipt of grant funding. The Scope of Work will take place on City-owned land and all necessary construction safety protocols will be followed. The major project tasks include the following:

Task 1: Project and Grant Management

- Establish the agreement with the BOR;
- Prepare for and attend requested meetings with BOR;
- Oversee the contract and implementation progress;
- Complete all reporting and invoicing requirements;
- Closeout the grant; and
- Maintain all records for at least three years after project closeout.

Deliverables: Executed grant agreement, Meeting agendas and minutes, Requests for reimbursement, Quarterly and final progress reports, and Audit reports (if applicable).

Task 2: Materials Procurement and Installation

This task includes the procurement of the Calsense WBIC and installation of all equipment at each of the 10 parks.

- **Task 2.1: Kick-off Meeting.** City staff will hold a kick-off meeting with the Calsense vendor to refine the timeline, materials required by park, and final determination of equipment needed for each park location (based on previous estimates).
- **Task 2.2: Purchase Materials.** The City will review and finalize a purchase order for the materials needed to successfully implement the project. The City's purchasing division will be involved in the procurement of the equipment and services.
- **Task 2.3: Install Weather-Based Irrigation System.** City staff will install all project system upgrades at the ten parks identified for this project, based on an agreed-upon timeline and park requirements. The WBIC Calsense system will vary by location/acreage.
- **Task 2.4: Test and Refine System and Training.**
  - City staff, in partnership with Calsense, will conduct final inspections and assessments at each location to test and refine the system to ensure operational startup performance has been completed; and
  - Train City staff on the use and functionality of the Calsense system for optimum results.

Deliverables: City Purchase Order, Invoices for purchased products, Inspection checklist identifying schedule of installation and verifying all installation activities are completed, and Photographs of installed materials.

Task 3: Performance Monitoring

City staff will conduct a pre- and post-assessment of the water savings resulting from this project. The water savings estimates will be based on historical water records for each of the ten parks over a one-year period compared to the new water usage for a one-year period.

Deliverables: Report on historical vs. post-project water usage by park.

Project Schedule. This project is estimated to take 18 months, with a completion date of December 2024, assuming a start date of June 2023. The City has estimated the tasks and schedule based on the tasks/time required for completion of similar projects. The following table represents the estimated timeline of major project tasks.

Figure 6. Project Timeline

Task No.	Timeline	2023				2024			
	Major Project Tasks	Qtr. 1	Qtr. 2	Qtr. 3	Qtr. 4	Qtr. 1	Qtr. 2	Qtr. 3	Qtr. 4
0	BOR Grant Award (June 2023)								
1	Project/Grant Management (Sept. 2023 – Dec. 2024)								
2	Procurement and Installation (Sept. 2023 – Sept. 2024)								
2.1	Kick-off Meeting (Oct. 2023)								
2.2	Purchase Materials (Nov. 2023)								
2.3	Installation of Systems at 10 Parks (Dec. 2023 – Sept. 2024)								
2.4	Test and Refine Systems and Training (Jan. 2024 – Sept. 2024)								
3	Performance Monitoring (Jan. 2024 – Dec. 2024)								

E.1.4 Evaluation Criterion D—Nexus to Reclamation

Historically, the City of Anaheim purchases an average of approximately 20,000 acre-feet per year (AFY) through the Metropolitan Water District. MWD's principal sources of water are the Colorado River via the Colorado River Aqueduct (CRA) and the Lake Oroville watershed in northern California through the State Water Project (SWP). Both the CRA and SWP are BOR facilities.

E.1.5 Evaluation Criterion E—Presidential and Department of the Interior Priorities

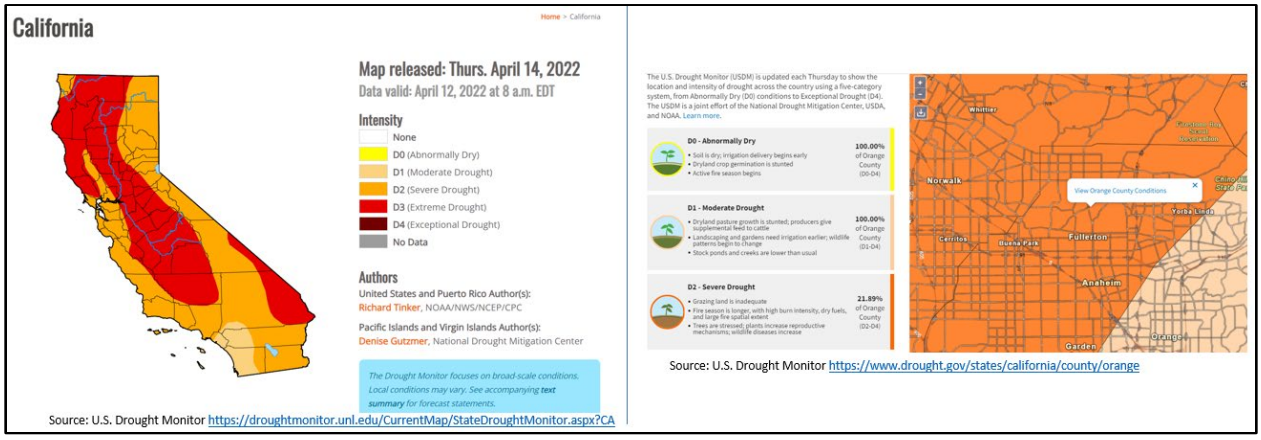
E.1.5.1. Sub-criterion No. E1. Climate Change

Combating the Climate Crisis: As the state enters its second period of extreme drought in a decade, it is increasingly evident that water use efficiency is essential for sustaining adequate and reliable water supplies for Southern California. With the Colorado River experiencing historic, extended drought since 2000, coupled with increased population growth, California is faced with long-term water supply reliability challenges. In addition, the increasing costs of conveying and treating water supplies and replacing aging infrastructure are requiring water purveyors across the state to implement viable and

cost-effective solutions to these issues. Anaheim is a major economic driver for the State of California as the home to the world-famous Disneyland and California Resort, the Anaheim Convention Center (the largest convention center on the West Coast attracting 1.2 million visitors annually), the Los Angeles Angels of Anaheim, the Anaheim Ducks, and over 100 hotels. Because of this unique position as a global tourist destination, Anaheim is especially vulnerable to climate change. Anaheim must meet both the residential/business needs and the water use and energy consumption needs of millions of visitors each year. Mandatory water conservation could have dire effects on the City, region, and state economy.

Anaheim receives roughly 30% of its water from the MWD, whose supplies come from the SWP and the CRA, and supply is therefore influenced by climate conditions in northern California and the Colorado River Basin, respectively. Figure 7 below illustrates the extreme and severe drought conditions currently existing throughout California, and drought conditions in Orange County. At present, 21.89% of Orange County is in Severe Drought (100% of the project area) and 100% of Orange County is experiencing moderate drought conditions.

Figure 7. Current California and Anaheim Drought Conditions



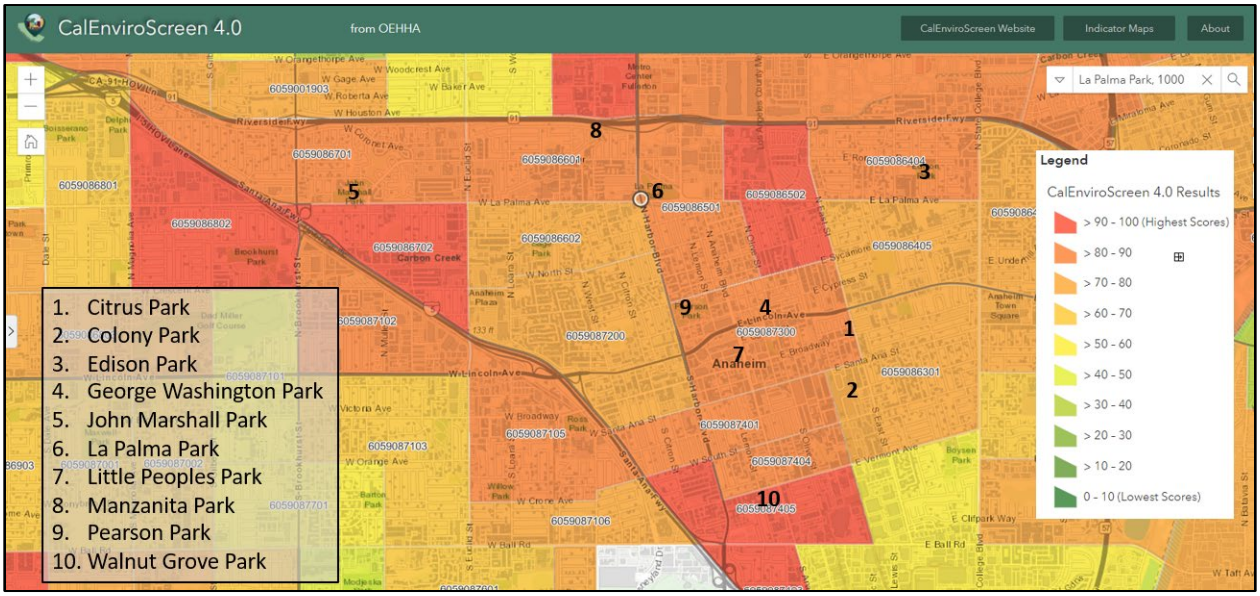
Approximately 40 million people rely on the Colorado River and its tributaries for water with 5.5 million acres of land using Colorado River water for irrigation. Climate change will affect future water supply and demand due to increasing temperatures and water loss due to evaporation, thereby reducing the available amount of supply from the Colorado River and exacerbating imbalances between increasing demands due to population growth and decreasing supplies. Anaheim recognizes that it is part of one State with interconnected water supplies and must be part of the solution for the current statewide dry conditions by minimizing wasteful water use. To remain resilient, and to support the Biden Administration's Executive Order 14008: Tackling the Climate

Crisis at Home and Abroad, the City continues to plan for future drought-related impacts by modernizing water systems and investing in innovative and sustainable projects. Anaheim has prepared for statewide dry conditions through sound water management and planning as well as major sustainability investments in projects such as the proposed smart irrigation controller project.

E.1.5.2. Sub-criterion No. E2. Disadvantaged or Underserved Communities

The ten City-owned parks selected for this project are those that will serve and benefit the disadvantaged communities (DACs) of north-central Anaheim. According to CalEnviroScreen 4.0 (a mapping tool used to identify communities burdened by pollution), the entire project area is considered disadvantaged, ranging from the 81st – 97th percentile for pollution burden (0 being the best and 100 the worst). The population is 71.1% Hispanic or Latino. Nearly 52.2% live below the poverty line. Compared to other census tracts, the area ranks in the bottom 20th percentile in the state for tree canopy and is the 0 percentile for Diesel PM emissions. The project will benefit the communities by addressing water supply issues through water savings at the parks that these communities enjoy. The parks will be more useable by ensuring the plants and turf are not overwater and leaks do not go unchecked, leading to swampy grounds or mosquito problems. It will support existing tree canopy and vegetation by efficiently using precious water resources. It will also help keep water cost in check by reducing need for more expensive imported waters.

Figure 8. CalEnviroScreen Map of Disadvantaged Communities Served by the Project



E.1.5.3. Sub-criterion No. E.3. Tribal Benefits

This project will not directly serve a Tribe and therefore this sub-criterion does not apply.

Overlap or Duplication of Effort Statement

The project is a unique and stand-alone project. There is no overlap between this project and any other proposals or projects. This proposal does not duplicate any other proposed or project under consideration for grant funding.

END OF TECHNICAL PROPOSAL NARRATIVE

PROJECT BUDGET

Funding Plan and Letters of Commitment

The City of Anaheim will fund all non-Reclamation share of project costs through City resources. No other resources will be used. Anaheim will provide $122,430 (55% of the total project cost) in cash through the Department of Community Services budget. The City has not incurred any previous costs on this project, has no funding partners, and has no pending funding requests for the project.

Budget Proposal

Table 1. Summary of Non-Federal and Federal Funding Sources

FUNDING SOURCES	AMOUNT
Non-Federal Entities	
1. City of Anaheim (Cash Contribution)	$122,430
Non-Federal Subtotal	$122,430
REQUESTED RECLAMATION FUNDING	**$100,000**

Table 2. Total Project Cost Table

SOURCE	AMOUNT
Costs to be reimbursed with the requested Federal funding	$100,000
Costs to be paid by the applicant	$122,430
Value of third-party contributions	$0
TOTAL PROJECT COST	**$222,430**

A further breakdown of these costs is noted in Table 3. Budget Proposal, below:

Table 3. Budget Proposal

Budget Item Description Major Project Tasks	Computation		Quantity Type	Total Cost
	$/Unit	Quantity		
Salaries and Wages				
				$0
Fringe Benefits				
				$0
Equipment				
				$0
Supplies and Materials				
				$0
Contractual				
Supply and Installation of Calsense WBICs at 10 City-owned parks	$222,430	1	LS	$222,430
Third-Party In-Kind Contributions				
				$0
Other				
				$0
TOTAL DIRECT COSTS				**$222,430**
Indirect Costs				
				$0
TOTAL ESTIMATED PROJECT COSTS				**$222,430**

Budget Narrative

Salaries and Wages. Not Applicable.

Fringe Benefits. Not Applicable.

Travel. Not Applicable.

Equipment. Not Applicable. All Calsense products to be purchased have an individual value of less than $5,000.

Materials and Supplies. Not Applicable.

Contractual. Based on the WBIC System quotes provided by Calsense Resource Management Services for each of the ten parks, the City estimates material and installation costs of $222,430. Calsense is a leader in water management, hardware, and

software, and will provide support for installation of the proposed project. The cost per park varies with the size of each park being updated to the WBIC system and includes materials/supplies, data plans, and installation. A Calsense approved contractor will be competitively procured. The estimated costs per park are as follows:

City of Anaheim Park	Cost Per Park
Citrus Park	$11,430
Colony Park	$15,490
Edison Park	$15,490
George Washington Park	$15,490
John Marshall Park	$28,200
La Palma Park	$30,980
Little Peoples Park	$14,250
Manzanita Park	$18,190
Pearson Park	$54,940
Walnut Grove Park	$17,970

Third-Party In-Kind Contributions. Not Applicable.

Environmental and Regulatory Compliance Costs. Not Applicable. The City anticipates submitting a Categorical Exclusion as the project consists of changing-out existing controllers.

Other Expenses. Not Applicable.

Indirect Costs. Not Applicable.

Total Cost. The total cost for implementation of the project is anticipated to be $222,430.

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 proposed project is a weather-based irrigation system upgrade in ten existing City parks and consists of replacing existing controllers. No negative impacts are anticipated in 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 species listed or proposed to be listed as threatened or endangered, or designated critical habitat in any of the project locations that would be affected by any activities associated with the project.

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. No negative impacts are anticipated.

When was the water delivery system constructed? The water delivery system has been constructed progressively since 1879.

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 proposed project is a weather-based irrigation system upgrade in ten existing City parks and consists of replacing existing controllers. The project will not result in any modification of or effects to features of an irrigation system (e.g., headgates, canals, or flumes).

Are any buildings, structures, or features in the irrigation district listed or eligible for listing on the National Register of Historic Places? A cultural resources specialist at your local Reclamation office or the State Historic Preservation Office can assist in answering this question. The project consists of changing-out existing controllers and will not affect any buildings, structures, or features listed under the National Register of Historic Places.

Are there any known archeological sites in the proposed project area? No, there are no known archeological sites in the proposed project areas.

Will the proposed project have a disproportionately high and adverse effect on low income or minority populations? The proposed project will upgrade the irrigation systems in 10 City parks and is expected to have a positive impact on low-income and

minority populations as it will help to conserve water usage and reduce overall water costs.

Will the proposed project limit access to and ceremonial use of Indian sacred sites or result in other impacts on tribal lands? No, the project will not limit access to and ceremonial use of Indian sacred sites or result in any negative impacts on tribal lands.

Will the proposed project contribute to the introduction, continued existence, or spread of noxious weeds or non-native invasive species known to occur in the area? No, the proposed project will not contribution to the introduction, continued existence, or spread of noxious weeds or non-native invasive species known to occur in the area.

REQUIRED PERMITS OR APPROVALS

No permits or approvals are required for the implementation of this project. All activities within the scope of work will take place on non-Federal, City of Anaheim owned land.

LETTERS OF PROJECT SUPPORT AND LETTERS OF PARTNERSHIP

The City of Anaheim received three (3) letters of support, which are included in this application under Appendix A, from the following:

- Councilman Moreno
- Anaheim Public Utilities
- Boys and Girls Club of Anaheim/Cypress

OFFICIAL RESOLUTION

The official resolution is scheduled to be reviewed and approved by the City of Anaheim Council on May 17, 2022. The draft resolution is attached to this application in Appendix B.

CONFLICT OF INTEREST DISCLOSURE

The City of Anaheim does not have an actual or potential conflict of interest at the time of this grant application submission.

CITY OF ANAHEIM
MAYOR PRO TEM DR. JOSE F. MORENO
COUNCIL MEMBER DISTRICT 3

April 22, 2022

Darren Olson
U.S. Department of the Interior
Bureau of Reclamation
Denver Federal Center
Bldg. 56, Room 1000
Denver, CO 80225

Re: BOR WaterSMART Small-Scale Water Efficiency Projects: Central Anaheim Smart Irrigation Controller Project

Dear Mr. Olson:

It is with great pleasure that I provide this letter in support of the City of Anaheim's application for the Bureau of Reclamation's WaterSMART: Small-Scale Water Efficiency Grant program. The City seeks to secure funding to install efficient irrigation systems with smart controllers throughout North Central Anaheim. The Smart Irrigation Controller Project is a welcome conservation measure that will improve water system efficiency and reduce water usage in City of Anaheim Parks.

"Smart" Controllers that provide appropriate watering schedules, adjust for weather changes, and irrigate based on the needs of the landscape and soil conditions are a Best Management Practice that will prove multiple benefits to the City and its residents. Not only will this project allow the City to conserve valuable water supplies, but also benefit the disadvantaged communities it serves. This is especially true as North Central Anaheim has some of the highest density, poverty levels and income inequality in the City.

I appreciate your consideration of their application, as the City of Anaheim is eager to take the next step in ensuring the sustainability of this valuable resource. If you have any questions, please feel free to contact my office.

Sincerely,

Councilman Dr. Jose Moreno
Citv Council District 3

200 South Anaheim Boulevard, Anaheim, California 92805
(714) 765-5247 • FAX (714) 765-5164 • www.anaheim.net

City of Anaheim
PUBLIC UTILITIES DEPARTMENT
General Manager's Office

April 22, 2022

Darren Olson, Grants Management Specialist
U.S. Department of the Interior
Bureau of Reclamation
Denver Federal Center
Bldg. 56, Room 1000
Denver, CO 80225

Re: BOR WaterSMART Small-Scale Water Efficiency Projects: Central Anaheim Smart Irrigation Controller Project

Dear Mr. Olson:

On behalf of Anaheim Public Utilities (APU), I am writing to support the City of Anaheim's grant application to install smart irrigation controller systems at 13 parks in North Central Anaheim, which is within the disadvantaged community designation. The City's Smart Irrigation Controller Project is a welcome conservation measure to help the City save water. The project will provide for appropriate watering schedules, adjust for weather changes, and irrigate based on the needs of the landscape and soil conditions – helping to reduce water use and water waste.

APU is a municipal, not-for-profit, utility that delivers reliable water and electricity to the residents and businesses of Anaheim. Over the years, it has become increasingly evident that water use efficiency is essential for sustaining adequate and reliable water supplies for southern California. The City has taken actions to prepare for statewide dry conditions through the increased use of recycled water to recharge the groundwater basin, and continued promotion of conservation programs to reinforce that saving water is a way of life. To remain resilient, the City must continue to plan for future drought-related impacts by modernizing water systems and investing in innovative and sustainable projects, such as the Smart Irrigation Controller Project that is being proposed by the City.

APU has a strong partnership with Anaheim Community Services and fully supports their efforts to create solutions for the current statewide dry conditions by minimizing wasteful water use. Thank you for considering Anaheim's application for grant funding to assist in implementing the Central Anaheim Smart Irrigation Controller Project in thirteen of Anaheim's public parks.

Sincerely,

Dukku Lee
Public Utilities General Manager

201 S. Anaheim Blvd.
Suite #1101
Anaheim, CA 92805
TEL: 714.765.5173
FAX: 714.765.4138

April 8, 2022

Darren Olson
U.S. Department of the Interior
Bureau of Reclamation
Denver Federal Center
Bldg. 56, Room 1000
Denver, CO 80225

Re: BOR WaterSMART Small-Scale Water Efficiency Projects: Central Anaheim Smart Irrigation Controller Project

Dear Mr. Olson:

The Boys and Girls Clubs of Greater Anaheim-Cypress is pleased to offer our support for the City of Anaheim's grant application to install smart irrigation controller systems at several parks in North Central Anaheim.

Our organization is a non-profit youth development organization. We provide before and after school programs, as well as summer programs, for all school-aged youth to learn and grow – all while having fun. We are developing the next generation of community stewards and encourage children to utilize the parks to enhance their health and education. The City's proposed project will model responsible water usage to our young participants. Further, it will make 10 public parks more useable by ensuring plants and turf are not overwatered and leaks don't go unchecked, leading to swampy grounds or mosquito problems.

Our facility is located in Manzanita Park (one of the proposed park locations) and serves many disadvantaged communities in Anaheim. We welcome Anaheim's efforts to enhance the parks that our youth utilize to create fun memories.

Please join me in supporting Anaheim's application for grant funding.

Sincerely,

Anne Hertz-Mallari

Anne Hertz-Mallari
Chief Executive Officer
ahertz@theboysandgirlsclub.org

RESOLUTION NO: 2022-XXX

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF ANAHEIM AUTHORIZING THE DIRECTOR OF COMMUNITY SERVICES OR DESIGNEE TO SUBMIT AN APPLICATION TO THE UNITED STATES DEPARTMENT OF THE INTERIOR, BUREAU OF RECLAMATION FOR THE WATERSMART SMALL-SCALE WATER EFFICIENCY PROJECTS GRANT PROGRAM FOR THE CENTRAL ANAHEIM SMART IRRIGATION CONTROLLER PROJECT AND IF AWARDED, AUTHORIZING THE ACCEPTANCE OF SUCH GRANT ON BEHALF OF THE CITY AND AMENDING THE BUDGET ACCORDINGLY; AND DETERMINING THAT THESE ACTIONS ARE EXEMPT FROM THE CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA) PURSUANT TO CLASS 1, SECTION 15301 (EXISTING FACILITIES) AND CLASS 2, SECTION 15302 (REPLACEMENT OR RECONSTRUCTION).

WHEREAS, the City of Anaheim has prepared an application to apply for federal funding from the United States Department of the Interior, Bureau of Reclamation ("Reclamation") ("Grantor") to assist in the funding of the Central Anaheim Smart Irrigation Controller Project; and

WHEREAS, the funding opportunity is provided by Reclamation through their Grant Program entitled "WaterSMART Small-Scale Water Efficiency Projects" ("Grant"); and

WHEREAS, the Central Anaheim Smart Irrigation Controller Project ("Project") will install efficient irrigation systems with smart controllers that improve water system efficiency and reduce water usage in City of Anaheim Parks; and

WHEREAS, the City of Anaheim ("City"), if selected, will enter into an agreement with Reclamation to carry out the Project; and

WHEREAS, the City is familiar with the terms, conditions and limitations of any such Grant; and

WHEREAS, the City desire to accept any such Grant which may be awarded to the City.

NOW, THEREFORE, BE IT RESOLVED that the City Council of the City of Anaheim as follows:

1. Approves the filing of an application for the implementation of the Central Anaheim Smart Irrigation Controller Project;

2. Certifies that the City understands the City will work with Reclamation to meet established deadlines for entering into a grant or cooperative agreement; and,

3. Certifies that City is capable of providing the amount of funding and/or in-kind contributions specified in the application; and,

4. Certifies that the City understands the assurances and certifications in the application; and

5. Certifies that it will comply with all provisions of Section 1771.5 of the California Labor Code; and,

6. If applicable, certifies that the Project will comply with any laws and regulations, legal requirements for building codes, health and safety codes, disabled access laws, and, that prior to commencement of construction, all applicable permits will have been obtained; and

7. The Anaheim Director of Community Services, or his/her designee is hereby authorized to submit a Grant Application for and on behalf of the City of Anaheim, a public entity established under the laws of the State of California, and the Anaheim Director of Community Services, or his/her designee is authorized to take any actions necessary for the purpose of obtaining financial assistance provided by the Grantor; and

8. The City Council of the City of Anaheim hereby agrees to, and by this resolution, does accept any such Grant so awarded to the City of Anaheim without further action of the City Council being required; and

9. The City of Anaheim hereby agrees to comply with each and all of the terms, conditions, and limitations imposed by the Grantor upon said Grant, and the Anaheim Director of Community Services or his/her designee is hereby authorized and directed to conduct all negotiations, execute any agreements, assurances, or other documents as may be necessary in connection with completion of the Project(s) and the acceptance of said Grant as may be required by the Grantor, if such Grant is awarded to the City; and

10. Contingent upon the award of said Grant, the annual budget of the City of Anaheim is hereby amended by increasing revenue and expenditures in an amount equal to the amount of the Grant Funds awarded.

11. Pursuant to and in accordance with the provisions of the California Environmental Quality Act (Public Resources Code Section 21000 et seq.; herein referred to as "CEQA") , the State of California Guidelines for the Implementation of the California Environmental Quality Act (Title 14 of the California Code of Regulations; herein referred to as the "CEQA Guidelines"), and the City's Local CEQA Procedure Manual, the City is the "lead agency" for the preparation and consideration of environmental documents for the Proposed Project.

12. The City Council finds and documents that the effects of the project are typical of those generated within that class of projects (i.e., Class 1 – Existing Facilities) which consist of the operation, repair, maintenance, permitting, leasing, licensing, or minor alteration of existing public or private structures, facilities, mechanical equipment, or topographical features, involving negligible or no expansion of use beyond that existing at the time of this

determination, and (i.e., Class 2, Replacement or Reconstruction) which consists of replacement or reconstruction of existing structures and facilities where the new structure will be located on the same site as the structure replaced and will have substantially the same purpose and capacity as the structure replaced, and that, therefore, pursuant to Sections 15301 and 15302 of Title 14 of the California Code of Regulations, the Proposed Project will not cause a significant effect on the environment and is, therefore, categorically exempt from the provisions of CEQA.

THE FOREGOING RESOLUTION is approved and adopted by the City Council of the City of Anaheim this _____ day of _____, 2022, by the following roll-call vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

CITY OF ANAHEIM

By: _____
MAYOR OF THE CITY OF ANAHEIM

ATTEST:

_____
CITY CLERK OF THE CITY OF ANAHEIM
143581