



**WaterSMART: Small-Scale Water Efficiency Project for FY 2019**

# Water Service Relocation Program Phase 1



**City of Hesperia  
9700 Seventh Avenue  
Hesperia, CA 92345**

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1. Letters of Project Support
2. Resolution 2019-19
3. SF-424 Application for Federal Assistance
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**Technical Proposal and Evaluation Criteria**  
**Executive Summary**

Date: April 2019  
Applicant Name: City of Hesperia  
City: Hesperia  
County: San Bernardino  
State: California

***Project Summary***

The City of Hesperia (City) requests funding assistance to relocate water services from old leaky pipelines located within easements at the rear of existing parcels to new pipelines located at the front of the parcels and in street rights-of-way. The City has already completed the new pipelines including services. The program includes construction of on-site service piping to connect to the new and abandoned the existing service connection. To complete the work, the City will administer the program including coordination with residents and the assembly a list of qualified professional plumbers that residents will contract with to complete the onsite piping work. After the City has confirmed that all service relocations are complete, the City will abandon the old leaky water pipelines to complete the program. The project will enhance the City's water conservation efforts together with protecting water quality that may experience degradation from deteriorating existing pipelines to be removed from service.

***How funds will be used to accomplish specific project activities***

Funds will be used to compensate qualified professional plumbers for work completed to relocate private water service piping from rear to front of the parcels.

***How it contributes to accomplishing the goals of this FOA***

The project will improve the water use efficiency and water conservation and will protect water quality. Removal of deteriorating pipelines will respond to significant water loss that exceeds 4.2% of total production. Water conservation will reduce the demand for additional production from the Mojave Groundwater Basin that, as indicated by Mojave Water Agency, is in overdraft conditions. The project will assist in protecting and conserving the precious resource, water. The recently constructed pipelines will not only improve water use efficiency but removing the deteriorating pipelines from service will eliminate the risk of failure during seismic activities. Other benefits include that the City will experience a reduction in operations and maintenance costs to frequently repairs to the deteriorating pipelines together with reduced costs associated with replacement water production. In summary, the City seeks to not only be good environmental and financial stewards, but also to comply with the City of Hesperia's Urban Water Management Plan, which aims to reduce water use. It is the City's goals to conserve and use water more efficiently, improve energy efficiency of the distribution system, contribute to water supply sustainability of the water basin, and positively contribute to the State's water goals.

This project is included in the City's Capital Improvement Plan program.

***Project Timeframe***

The estimated completion date of the project is July 2020 (based upon funding date provided).

## **Background Data**

### ***Water Supplies***

The Hesperia Water District serves its citizens' potable water needs. The District's sole source of potable water is from a large underground basin known as the Mojave Groundwater Basin (MGWB) and its use is governed by the Mojave Basin Area Adjudication. The Mojave Water Agency (MWA) is the State Water Project contractor for this area and serves as the Watermaster for the adjudicated basin. In 2004, MWA completed a Regional Water Management Plan which outlined projects that would maintain a healthy Basin to meet the future needs of its service area. Chief among these projects was a series of basins that would detain storm water and enable it to percolate into the ground, thus re-charging the underground basin. The unique desert soils and depths to ground water allow these basins to serve two functions: the control of storm water during intense desert storms, and more importantly, the ability to "treat" the storm water run-off as it passes through several hundred feet of sandy soil before reaching the underground basin.

In the City of Hesperia, storm water travels primarily above ground through natural washes. These Washes discharge into the Mojave River, which is listed as a navigable waterway, and a Waters of the United States. Regional storm water basins are required to control the velocity and deposition of silt and other deleterious material prior to discharges into the Mojave River. The location of this proposed basin is immediately downstream of a two-mile-long storm drain system.

The City produced and managed approximately 14,000 acre-feet (AF) of water from the aquifer in 2018. The region's Urban Water Management Plan indicates that projected water demands will increase to approximately 15,100 AF in 2020, 16,300 AF in 2025, 17,700 AF in 2030, 19,300 AF in 2035, and 20,600 AF in 2040 due to growth.

### ***Water Rights***

The City holds 20,640 AF of water rights in the Alto Subarea Subbasin of the MGWB. However, the Watermaster manages the MGWB using a number of techniques including reduction of water rights referred to as "Free Production Allowance" or FPA. Currently, Watermaster set the FPA at 60%. Therefore, the City is permitted to produce up to 12,800 AF of water supplies. Since the City produced more supply than it has rights to, the City leased water from other rights holders. Demands will continue to outpace the City water rights and, therefore, the City will pursue water rights from willing sellers as well as implementing demand management measures including water conservation through removal of deteriorating pipelines from service.

The MGWB is a reliable source of water supply and no "shortfalls" are anticipated. The basin has been adjudicated and Watermaster is required to manage it so that it will continue to provide water supplies in perpetuity. Any water produced beyond the City's FPA must be replenished to ensure long range water supply reliability. The Alto Subarea Subbasin, is recharged by rainfall and snowmelt from the local mountains as well as imported water.

### ***Customers***

The City supplies water to municipal, domestic and industrial users – it does not provide water service to agricultural users. The City serves a population of nearly 94,000 people and has 27,172 service connections.



## Technical Project Description and Milestones

### *Problems and Needs*

The most pressing issue for Hesperia to address is the 585.89 acre feet per year of water loss as described in the 2017 Water Audit Level 1 Validation Report. This water loss is affecting the City on several levels. It is clear that the water loss is unacceptable from a conservation perspective, particularly in times of diminishing water resources. Moreover, the current drought has had significant impacts on the adjudicated groundwater basin as the State Water Project (SWP) allocations dropped to 35% in 2013 and a 5% in 2014. SWP water is used in the region primarily for direct deliveries to customers of MWA and for groundwater recharge to offset groundwater overdraft.

The City was incorporated in 1988. Water for the community was previously provided by Victor Valley County Water District until 1975, when the District was formed as a self-governed special district. In 1992, the District was reorganized as a subsidiary special district of the City. The District operates a self-sustaining utility business enterprise.

The Project areas include approximately 5.4 miles of 4” deteriorating steel pipelines in easements at the rear portions of the parcels that provide water service to 183 customers. These pipelines are subject to leaks and, due to age, degrade water quality. The focus of this project will be to isolate and replace approximately 5.4 miles of the old deteriorating pipelines located in easements behind parcels and replace with schedule 40 PVC service line to the front of parcels. When leaks occur, City personnel have difficulties in gaining access for equipment and personnel together with challenges related to flooding and damage of private improvements that are costly to replace. In addition, these areas have a limited number of shut off valves and even when valves exist, they typically either don’t operate at all or fail to close completely leading to significant water loss and water quality degradation. When City staff closes valves in these areas, water quality complaints occur for more than a week even after extensive flushing – another significant water loss. In many cases, water quality challenges lead to customers filing of claims for damages to onsite plumbing facilities including water heater damage.

Also, City staff is required to read water service meters in these backyards that are difficult to access due to locked gates and are often have pets that must be managed.

### *Project Description*

Hesperia has identified the most critical needs in the Water Loss Study. The highest priority project includes replacing the deteriorating pipelines that provide water service to 183 customers with new pipeline relocated to the front of parcels and abandon the old pipeline in service. The City has already completed pipelines and public portion of water services. The Program will facilitate service change overs of 125’ per parcel from rear to front permitting the City to abandon 160’ of deteriorating easement pipelines per parcel. Once the pipelines are removed from service, leaks and associated water quality degradation will cease and the need for access for repairs and meter reading will no longer be needed.

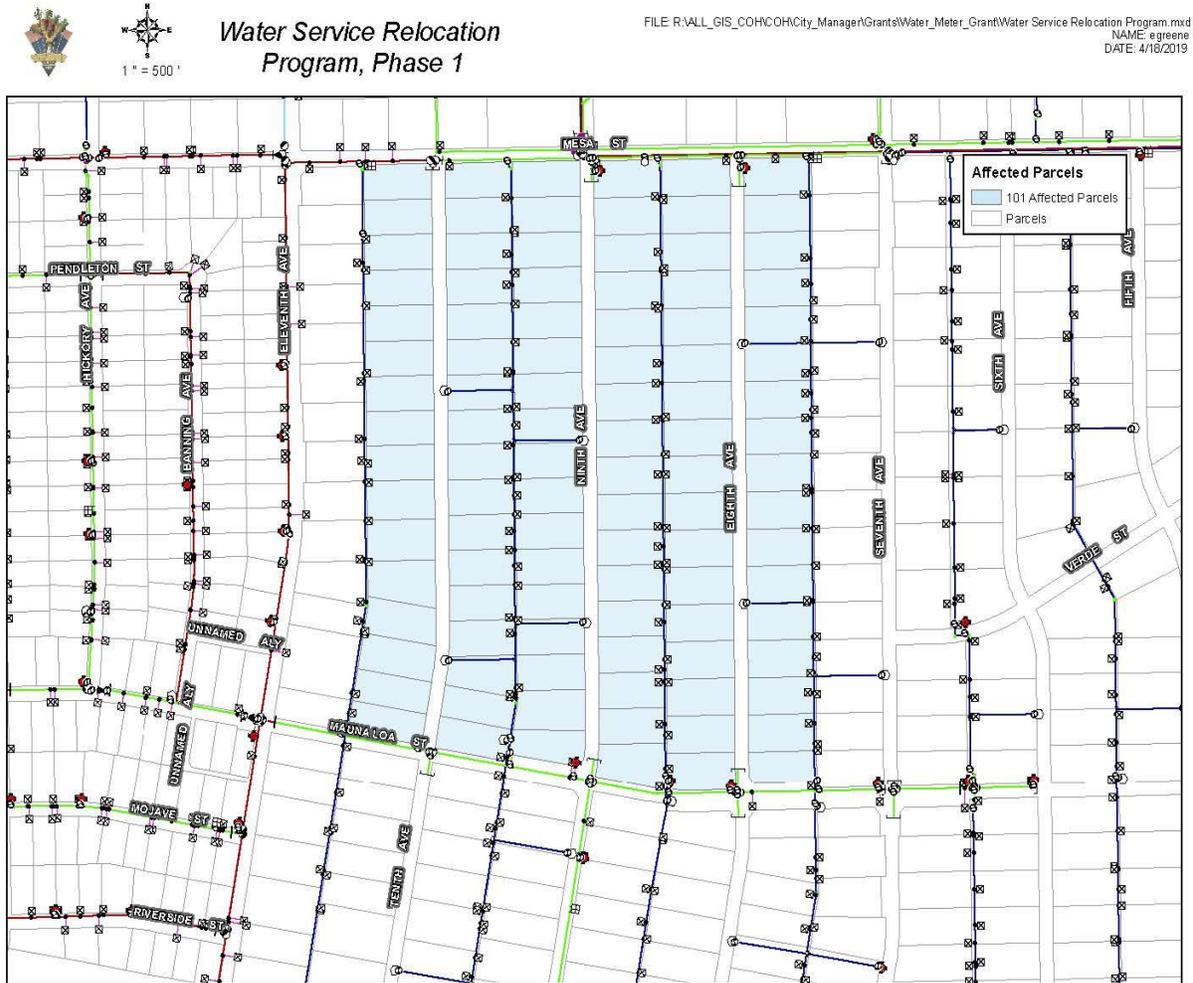
The Program includes City project management, program notification to the 183 customers, community meetings to educate the public on its role as well as all components that the City will complete during project delivery. Thereafter, the City will assemble a list of qualified professional

# Hesperia Water Service Relocation Program, Phase I

## Water SMART Grants: Small-Scale Water Efficiency Projects for FY 2019

plumbers. After the City has assembled a list of at least five (5) qualified plumbers, the City will execute agreements with property owners authorizing each resident to commence work. The City will confirm that work is complete and require the property owner to execute a release. Thereafter, the City will compensate the plumbers and request reimbursement for Reclamation’s portion of the costs.

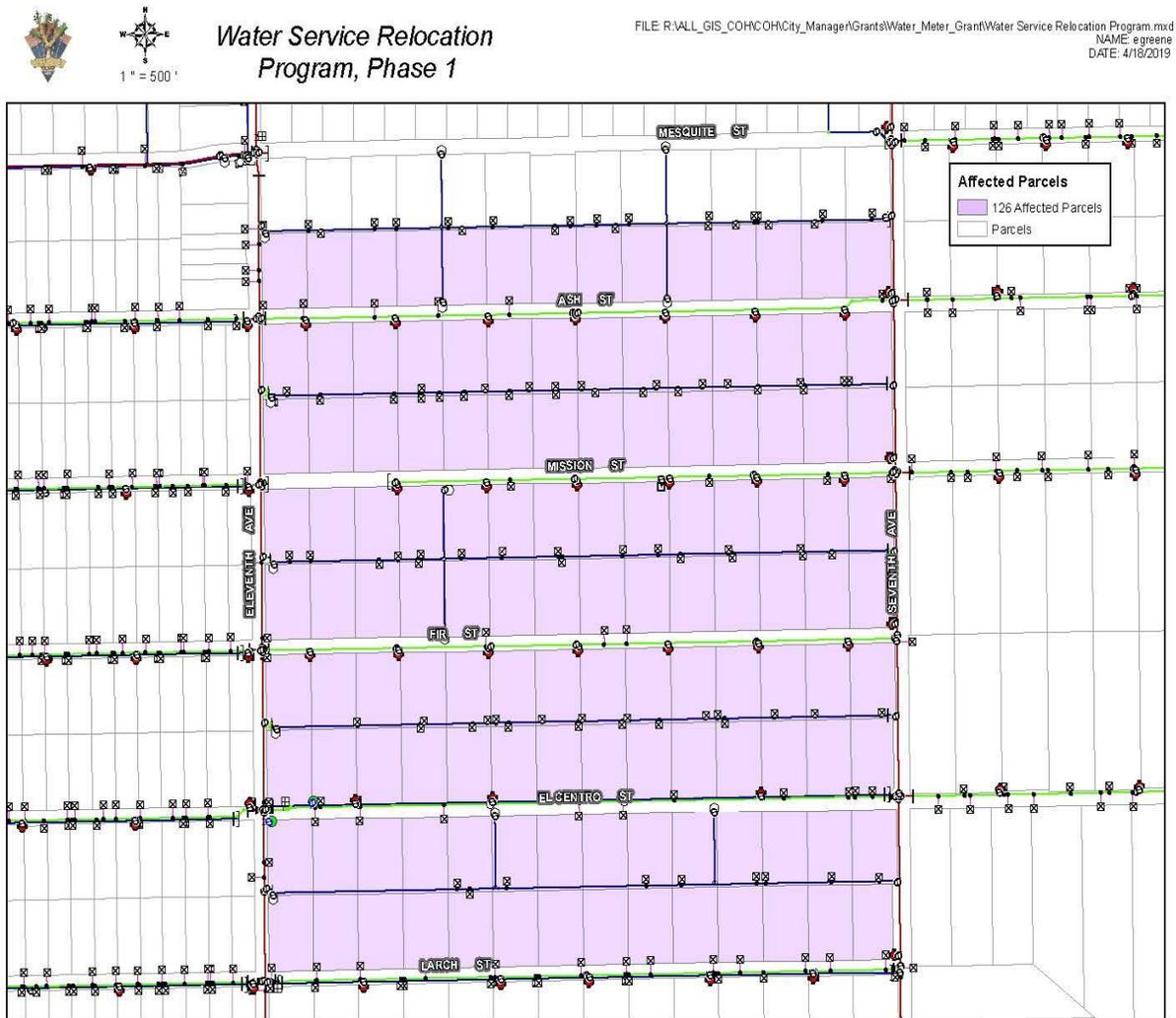
Project areas are shown on the Figure below and on page 7.



This figure identifies 101 service relocation parcels along 8<sup>th</sup>, 9<sup>th</sup> and 10<sup>th</sup> Avenues. It is the highest priority area for the City.

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This figure identifies 82 service relocation parcels along Ash, Mission, Fir, and El Centro Streets. The City has already converted 44 of these parcels. Should costs increase, the City would reduce the number of parcels from this area instead of the highest priority area in order to comply with the \$200,000 program budget requirement.

### ***Outcomes***

The program will remove nine (9), or 5.4 miles, of existing deteriorating easement waterlines from service that will enhance water conservation and protect water quality as well as reduce operations, maintenance, and meter reading personnel costs. Water loss reduction will benefit Hesperia financially; it will conserve pumping energy, associated water treatment chemicals and consumables, and groundwater withdrawal. Water loss reduction will also support Hesperia's state water goals as described in the adopted Hesperia Water Master Plan, 2008.

Upgrading the pipes, valves, fittings, and meters will create a more efficient and effective use of resources and funds. The upgraded infrastructure components (lines, valves, fittings, meters), and effective installation are anticipated to realize an immediate reduction in water otherwise lost.

Minimizing water loss will reduce the required water production at well sites. Reduced production of water will result in reduced consumption of water and less strain on the distribution system infrastructure; this in turn results in a more cost-effective, efficient water management program for the City of Hesperia and the Hesperia Water District.

The reduction in repairs in this section of the City will also enable the City to divert resources to other projects in terms of staffing.

***Project Milestones and Timeline***

Homeowners will choose from a list of approved plumbing companies, get a bid approved, and have the line installed. Building permits are exempt from CEQA per the following section:

15268. Ministerial Projects (a) Ministerial projects are exempt from the requirements of CEQA. The determination of what is “ministerial” can most appropriately be made by the particular public agency involved based upon its analysis of its own laws, and each public agency should make such determination either as a part of its implementing regulations or on a case-by-case basis. (b) In the absence of any discretionary provision contained in the local ordinance or other law establishing the requirements for the permit, license, or other entitlement for use, the following actions shall be presumed to be ministerial: (1) Issuance of building permits. (2) Issuance of business licenses. (3) Approval of final subdivision maps. (4) Approval of individual utility service connections and disconnections. (c) Each public agency should, in its implementing regulations or ordinances, provide an identification or itemization of its projects and actions which are deemed ministerial under the applicable laws and ordinances. (d) Where a project involves an approval that contains elements of both a ministerial action and a discretionary action, the project will be deemed to be discretionary and will be subject to the requirements of CEQA. Note: Authority cited: Section 21083, Public Resources Code; Reference: Section 21080(b)(1), Public Resources Code; Day v. City of Glendale, 51 Cal. App. 3d 817.

For NEPA purposes, an initial study will be completed, which should also find that the project is not subject to the Act.

Permitting and final design are also not applicable to the project. The non-federal cost share has been secured by the City. Although the program is an initial phase of a city wide program, the Program description described above only describes this initial phase.

Relocate pipeline from rear easements to front of parcels will require 3 months.

**Evaluation Criteria**

***Criterion A – Project Benefits***

The program (removing deteriorating easement waterlines from service) benefits include enhanced water conservation, improved water quality protection, reduced risk of damage of private property by flooding or repair excavation, improve public safety and reduced costs for operations, maintenance, and meter reading. Each are discussed in the following paragraphs:

***Water Conservation***

Removal of the deteriorating easement waterlines from service will reduce water leaks and water losses. The program will remove nine (9) existing deteriorating easement waterlines from service and the water leaks associated with them will cease. Water losses from these waterlines is typically large because these areas have a limited number of shut off valves and even when valves exist, they typically either don't operate at all or fail to close completely. Furthermore, after the repairs are complete, more water is lost due to flushing. The old deteriorating system requires significant flushing to manage water quality. Removal of the nine (9) waterlines will improve water conservation.

***Water Quality***

The existing waterlines are more than a seventy years old and are unlined steel pipelines. When leaks occur, waterline velocities increase. Thereafter, calcified and rusty lining of the waterline interior walls are released into the water system. It also occurs when the waterlines are temporarily removed from service while placing the system back into service. Operations staff has advised that water quality complaints persist more than a week after repairs are complete even after extensive flushing. Removal of the nine (9) waterlines will enhance water quality protection.

***Private Property***

Because the waterlines to be removed are in rear yard easements, the leaks typically cause flooding and destruction of private property. In addition, excavating to repair these mains also contributes to the private property destruction. Removal of the nine (9) waterlines will eliminate destruction of private property in the project areas.

***Public Safety***

The completed construction of 8" waterlines that replaces the old 4" waterlines has improved fire protection for the project areas. Relocating the services from the old system to the new system will also enhance service reliability for residents. When leaks occur, the City removes the system from service for an extended period of time. For the City's elderly population, lack of water service for extended periods creates risk – in particular, during hot summer months. Removal of the nine (9) waterlines will improve public safety and water service reliability.

***Operations and Maintenance Costs***

City personnel is required to invest an extraordinary amount of resources repairing older system waterline leaks. In fact, the City has established removal of these systems as one of its capital improvement highest priorities. Not only will the City reduce personnel and materials costs associated with infrastructure repairs but will also avoid additional water supply production costs. In addition, meter reading in the Program areas requires greater amounts of time because of locked gates and pets. City personnel is required to access these yards to read meters. With implementation of the Program, meters will be located within the public right-of-way reducing time needed to complete meter reading. Removal of the nine (9) waterlines will reduce operations and maintenance costs as well as meter reading staffing costs.

***Other Benefits***

1. Reducing water loss will preserve limited water supplies thereby improving overall water supply reliability. The City experiences, on average, 837 leaks per year and that

approximately 2,270 gallons of water are lost during each leak. Therefore, it is estimated that the program will save about 120,000 gallons of water annually.

2. The Program will have local benefits including reduced operations (reduced production and meter reading) and maintenance (leak repair) as described above. In addition, the Program will provide regional and State benefits – water that is conserved does not need to be produced. Since water producers in the area are producing more water supplies than the operating safe yield set by Watermaster, replenishment water must be imported. The water conserved by the Program will reduce the need for imported water delivery benefiting both the region and the State.
3. The program will not increase collaboration and information sharing among water managers in the region; however, Mojave Water Agency (MWA) serves as the regions State Water Contractor responsible for water deliveries to the region and also serves as the Watermaster. MWA is already doing an outstanding job with collaboration and information sharing with its biweekly meetings and electronic mail distribution.
4. As indicated above, the project will eliminate local economic impacts caused by leak flooding as well as repairs.

***Criterion B – Planning Efforts Supporting the Project***

The program is identified in the City’s Water Master Plan (WMP). As defined in the WMP, removing the deteriorating easement waterlines from the operating system is one of the City’s highest priorities. MWA’s regional studies highlight water conservation as key element for implementation to continue to meet water demands into the future. In addition, the Region’s planning studies indicate that reliance on the State Water Project supplies shall be reduced. Water conservation will continue to reduce the regions reliance on imported water. In addition, the Program will address statewide priorities of:

- Drought preparedness: This Project provides drought preparedness as it enables use of a new water supply.
- Use water more efficiently: This Project enables distribution of potable water supplies to help meet future water demands and increase water supply reliability.
- Climate change response actions: This Project increases efficiency of potable water use by enabling demands to be offset by local reclaimed water supplies. Local water supplies, such as reclaimed water, use comparatively less energy and therefore emit less GHG emissions than imported SWP supplies.

***Criterion C – Project Implementation***

The Project Implementation schedule is shown on the following page.

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**Water SMART Grants: Small-Scale Water Efficiency Projects for FY 2019**

Task No.	Task Title	Status	FY 2018/2019			FY 2019/2020												FY 2020/2021	
			A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A
1.0	Application Due to Bureau of Reclamation																		
2.0	Bureau of Reclamation Announcement of Funding Award																		
3.0	Project Management																		
4.0	Program Notification																		
5.0	Community Meeting																		
6.0	Assemble List of Qualified Professional Plumbers																		
7.0	Permitting / Environmental																		
8.0	Execute Agreements with Property Owners (Construction Begins)																		
9.0	Construction / Confirmation Work Completion / Property Owner Release																		
10.0	Bureau of Reclamation Invoicing																		
11.0	Project Closeout																		

The Program implementation plan includes City project management, program notification to the 183 customers, community meetings to educate the public on its role as well as all components that the City will complete during project delivery. Thereafter, the City will assemble a list of qualified professional plumbers. After the City has assembled a list of at least five (5) qualified plumbers, the City will execute agreements with property owners authorizing each resident to commence work. The City will confirm that work is complete and require the property owner to execute a release. Thereafter, the City will compensate the plumbers and request reimbursement for Reclamation’s portion of the costs.

Permitting will be limited to a City encroachment permit for construction that occurs within public right-of-way. The City is the program proponent and permitting agency; therefore, no delays will occur during program implementation.

The City will provide engineering management throughout program implementation. No engineering or design work will be performed in support of the proposed program.

The City is not creating any new policies or administrative actions to implement the project.

The City has set a budget of \$5,000 for environmental compliance processing because homeowners will choose from a list of approved plumbing companies, get a bid approved, and have the line installed. Building permits are exempt from CEQA. For NEPA purposes, an initial study will be completed, which should also find that the project is not subject to the Act.

***Criterion D – Nexus to Reclamation***

***Is the proposed project connected to a Reclamation project or activity?***

In pursuit of the goal of providing a stable and sustainable water supply for the High Desert Region, MWA constructed and currently operates projects that provide regional water supply benefits. Water supply facilities primarily consist of delivering and storing water from the State Water Project (SWP) to meet needs throughout our service area. The Regional Recharge and Recovery Project, known as “R-Cubed,” is a conjunctive use project that stores SWP water underground in the local aquifer and later recover and distribute the water to local retail water purveyors such as Hesperia. R-Cubed is part of a comprehensive solution developed by the MWA and the region’s stakeholders to ensure a sustainable water supply for the region. The project delivers SWP water from the California Aqueduct in Hesperia to recharge sites in the floodplain aquifer along the Mojave River in Hesperia and southern Apple Valley. MWA-owned production wells on either side of the Mojave River located immediately downstream of the recharge area will then recover and deliver the stored water through pipelines directly to retail water agencies.

This project was funded in part through Title 16 USBR funds under the American Rehabilitation and Recovery Act Agreement No. R10AC35R15.

The proposed project is also connected to Reclamation project activities by contributing to common goals such as, conserving water and protecting environmental interests.

***Does the applicant receive Reclamation project water?***

The applicant does not receive Reclamation project water.

***Is the project on Reclamation project lands or involving Reclamation facilities?***

The Project is not on Reclamation project lands and does not involve any Reclamation facilities.

***Is the project in the same basin as a Reclamation project or activity?***

Yes, see the answer above regarding the R-cubed project.

***Will the proposed work contribute water to a basin where a Reclamation project is located?***

As referenced above, the Project is part of a basin where a Reclamation project is located. The City is not contributing new water; the City is conserving existing basin water.

***Will the project benefit any tribe(s)?***

The proposed Project constitutes a public improvement within the City’s Community Development Block Grant (CDBG) Target Area but it will not benefit any tribe(s).

***Criterion E – Department of the Interior Priorities***

***1. Creating a conservation stewardship legacy second only to Teddy Roosevelt***

The Mojave IRWM Region and the project proponents are committed to the Human Right to Water Policy. The Mojave Integrated Regional Water Management (IRWM) Region, in collaboration with the Region’s stakeholders and Regional Water Management Group, identified objectives specifically relating to improving regional water use efficiency by implementing conservation

actions, addressing the State policy goal of reducing reliance on the Delta (SWP) by meeting water demands with alternative sources of supply during times when SWP supplies are reduced or unavailable due to droughts, and finally, increase the use of recycled water in the Region while maintaining compliance with the Mojave Basin Area Judgement. As defined in MWA IRWM Plan, the Region is already considering the human right to water because it uses the following human rights principles:

- a. Governs by non-discrimination and equality
- b. Includes meaningful public participation
- c. Requires accountability of project proponents

The Mojave IRWM Region has been specifically addressing the goal of the Human Right to Water by doing the following:

- a. Addressing drinking water contamination
- b. Improving drinking water infrastructure needed to maintain/improve water quality
- c. Improving infrastructure needed to ensure adequate drinking water supply

The Region's water is considered an important resource and its quality is of vital importance to all users. The MWA service area further embodies this Policy through its mission statement, "To manage the region's water resources for the common benefit to assure stability in the sustained use by the citizens we serve."

2. *Utilizing our natural resources - Not Applicable*
3. *Restoring trust with local communities*

This Project will help improve water use efficiency across the Mojave IRWM Region. Additionally, this Project will take advantage of MWA's strong working relationships with its water retailers as well as the Alliance for Water Awareness and Conservation, a collaborative group of over twenty agencies, to coordinate efforts.

4. *Striking a regulatory balance -Not Applicable*
5. *Modernizing our infrastructure - Not Applicable*

## **Project Budget**

### ***Funding Plan and Letters of Commitment***

A total of \$125,000 is planned as the applicant contribution towards this project and is included in the City's Capital Improvement Plan program. The funds are readily available within the City's water fund if grant is awarded. No other funding or project partner contributions have been received.

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***Budget Proposal***

Table 1. – Total Project Cost Table

<b>SOURCE</b>	<b>AMOUNT</b>
Costs to be reimbursed with the requested Federal funding	\$ 75,000
Costs to be paid by the City of Hesperia	\$125,000
Value of third party contributions	\$0
<b>TOTAL PROJECT COST</b>	<b>\$200,000</b>

Table 2. – Budget Proposal

<b>Project Elements</b>	<b>Total Amount</b>	<b>BOR GRANT</b>	<b>City Local Match</b>
Direct Project Management & Administration	\$10,000		\$10,000
Project Notification	\$5,000		\$5,000
Community Meeting	\$10,000		\$10,000
Assemble List of Qualified Professional	\$5,500		\$5,500
Permitting / Environmental	\$6,000		\$6,000
Execute Agreements with Property Owners (Construction Begins)	\$5,500		\$5,500
Construction / Confirmation Work Completion / Property Owner Release	\$150,000	\$75,000	\$75,000
Bureau of Reclamation Invoicing	\$3,000		\$3,000
Project Closeout	\$5,000		\$5,000
<b>Total</b>	<b>\$200,000</b>	<b>\$75,000</b>	<b>\$125,000</b>

***Budget Narrative***

*Salaries and Fringe Benefits*

Project Manager is Mike Thornton, Contract City Engineer. There is no salary; however, the hourly rate is \$150 which will cover all staff time and expenses. The hourly rate covers all labor costs associated with the services provided including salary and wages, and fringe benefits. Because the City contracts for engineering services the City does not have access to the detailed rate breakdown.

*Equipment*

No equipment will be utilized by the City; however, the plumbing contractors will supply all the equipment necessary to trench, connect, place piping, compact, and repair all private improvements.

*Materials and Supplies*

No Materials and Supplies will be utilized by the City; the plumbing contractors will supply all the necessary materials and supplies to complete the work.

*Contractual*

The City will be contracting professional plumbers at an estimated average cost of \$825 per parcel. The plumbing contractors will supply all the equipment, materials and supplies necessary to trench, connect, place piping, compact, and repair all private improvements. Costs will be determined by individual parcel.

*Third-Party In-Kind Contributions*

Not applicable

*Environmental and Regulatory Compliance Costs*

The City has set a budget of \$5,000 for environmental compliance processing because homeowners will choose from a list of approved plumbing companies, get a bid approved, and have the line installed. Building permits are exempt from CEQA per the following section:

15268. Ministerial Projects (a) Ministerial projects are exempt from the requirements of CEQA. The determination of what is “ministerial” can most appropriately be made by the particular public agency involved based upon its analysis of its own laws, and each public agency should make such determination either as a part of its implementing regulations or on a case-by-case basis. (b) In the absence of any discretionary provision contained in the local ordinance or other law establishing the requirements for the permit, license, or other entitlement for use, the following actions shall be presumed to be ministerial: (1) Issuance of building permits. (2) Issuance of business licenses. (3) Approval of final subdivision maps. (4) Approval of individual utility service connections and disconnections. (c) Each public agency should, in its implementing regulations or ordinances, provide an identification or itemization of its projects and actions which are deemed ministerial under the applicable laws and ordinances. (d) Where a project involves an approval that contains elements of both a ministerial action and a discretionary action, the project will be deemed to be discretionary and will be subject to the requirements of CEQA. Note: Authority cited: Section 21083, Public Resources Code; Reference: Section 21080(b)(1), Public Resources Code; Day v. City of Glendale, 51 Cal. App. 3d 817.

For NEPA purposes, an initial study will be completed, which should also find that the project is not subject to the Act.

**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 work includes trenching, placing piping and compacting trenches, and repair all private improvements. No significant dust will be created. There will be no impact to air, water or animal habitat in the project area – work will be done on existing residential properties.

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- 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? Not applicable
- 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. No
- When was the water delivery system constructed? The original system was constructed nearly 70 years ago.
- Will the proposed project result in any modification of or effects to, individual features of an irrigation system (e.g., headgates, canals, or flumes)? If so, state when those features were constructed and describe the nature and timing of any extensive alterations or modifications to those features completed previously. No
- 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. No
- Are there any known archeological sites in the proposed project area? No
- Will the proposed project have a disproportionately high and adverse effect on low income or minority populations? No
- Will the proposed project limit access to and ceremonial use of Indian sacred sites or result in other impacts on tribal lands? No
- 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

### Required Permits or Approvals

For work to be completed within the public right-of-way, the plumbing contractors will be required to obtain a City encroachment permit. No other local, county, regional, state, or federal issued permits are anticipated for this project. The construction area will be within City-owned easements or right-of-ways.

### Letters of Project Support

The Water Service Relocation Program, Phase I has wide support from a variety of stakeholders, such as community organizations, elected officials, and other related stakeholders. They stand ready to assist in completing approvals rapidly and constructing the project with as little disruption as possible to water service. Attachment 1 contains numerous letters confirming stakeholder

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**Water SMART Grants: Small-Scale Water Efficiency Projects for FY 2019**

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support. The stakeholders understand the importance of this water project to residents, businesses, emergency responders and area schools.

**Official Resolution**

The City Council of the City of Hesperia passed Resolution 2019-19 (Attachment 2) on April 16, 2019, authorizing and empowering the City Manager to execute in the name of the City of Hesperia all grant documents, including but not limited to, applications, agreements, contracts, amendments, and payment requests, necessary to secure federal funds to implement the approved grant project under the Small-Scale Water Efficiency Grant Program.

**Congress of the United States**  
**House of Representatives**  
Washington, DC 20515-0508

April 23, 2019

Matthew Reichert  
Bureau of Reclamation  
Financial Assistance Support Section  
P.O. Box 25007, MS 84-27814  
Denver, CO 80225

Dear Mr. Reichert:

I write to you today to offer my strong support for the grant proposal the City of Hesperia, California has submitted to the Bureau of Reclamation WaterSMART Grants: Small-Scale Water Efficiency Projects for Fiscal Year 2019 program for the Water Service Relocation Program, Phase I Project (Project).

The City of Hesperia supplies water to municipal, domestic and industrial users and serves a population of nearly 94,000 people. Hesperia's only source of water supply is the Mojave Groundwater Basin where approximately 14,000 acre-feet of water was produced and managed by Hesperia in 2018. This Project will protect the water quality and enhance Hesperia's water conservation efforts by relocating water services from old, leaky pipelines located within easements at the rear of existing parcels to new pipelines located at the front of parcels and in street right-of-ways preventing water lose and degradation from deteriorating existing pipelines. Additionally, it will provide for a reduction in operations and maintenance costs, reduced costs associated with replacement water production, and removal of the deteriorating pipelines from service will eliminate the risk of failure during seismic activities.

Hesperia seeks to be good environmental and financial stewards as well as comply with its Urban Water Management Plan, which aims to reduce water use. Hesperia has constantly strived to conserve and use water more efficiently, improve energy efficiency of the distribution system, contribute to water supply sustainability of the water basin, and positively contribute to California's water goals.

As the City and region continues to experience rapid growth, it is more important than ever that infrastructure be updated to meet the growing needs of my constituents, and I fully and unequivocally support this project in my district. If you have any questions about this letter or the impact this Project will have on my district, please feel free to contact me at (760) 247-1815.

Sincerely,



Col. Paul Cook (Ret.)  
Representative, 8<sup>th</sup> District of California

ANTELOPE VALLEY DISTRICT OFFICE  
848 W. LANCASTER BLVD., SUITE 101  
LANCASTER, CA 93534  
TEL (661) 729-6232  
FAX (661) 729-1683

VICTOR VALLEY DISTRICT OFFICE  
14343 CIVIC DRIVE, FIRST FLOOR  
VICTORVILLE, CA 92392  
TEL (760) 843-8414  
FAX (760) 843-8348

SANTA CLARITA DISTRICT OFFICE  
23920 VALENCIA BLVD., SUITE 250  
SANTA CLARITA, CA 91355  
TEL (661) 286-1471  
FAX (661) 286-2543

# California State Senate

SENATOR  
SCOTT WILK

TWENTY-FIRST SENATE DISTRICT



COMMITTEES  
AGRICULTURE  
VICE CHAIR  
EDUCATION  
VICE CHAIR  
GOVERNMENTAL  
ORGANIZATION  
VICE CHAIR  
RULES  
VICE CHAIR  
BUSINESS, PROFESSIONS  
& ECONOMIC DEVELOPMENT  
VETERANS AFFAIRS

April 23, 2019

Matthew Reichert  
Bureau of Reclamation  
Financial Assistance Support Section  
P.O. Box 25007, MS 84-27814  
Denver, CO 80225

Dear Mr. Reichert:

I am writing in support of the City of Hesperia's application for WaterSMART Grants: Small-Scale Water Efficiency Projects for Fiscal Year 2019. Funding for the City's Water Service Relocation Program, Phase I project will allow the City to protect water quality and enhance their water conservation efforts.

The City of Hesperia supplies water to municipal, domestic and industrial users and serves a population of nearly 94,000 people. The City's only source of water supply is the Mojave Groundwater Basin where approximately 14,000 acre-feet of water was produced and managed by the City in 2018. The City's Water Service Relocation Program, Phase I project will relocate water services from old leaky pipelines located within easements at the rear of existing parcels to new pipelines located at the front of parcels and in street right-of-ways preventing water loss and degradation from deteriorating existing pipelines.

The project will improve the water use efficiency, water conservation and will protect water quality. Removal of the deteriorating pipelines will respond to significant water loss that exceeds total production allotment. Water conservation will reduce the demand for additional production from the Mojave Groundwater Basin that, as indicated by the Mojave Water Agency Basin Watermaster, is in overdraft conditions. The project will assist in protecting and conserving our most precious resource - water.

I appreciate your consideration of this funding request from the City of Hesperia.

Sincerely,

A handwritten signature in cursive script that reads "Scott Wilk".

SCOTT WILK  
Senator, 21<sup>st</sup> District

STATE CAPITOL  
P.O. BOX 942849  
SACRAMENTO, CA 94249-0033  
(916) 319-2033  
FAX (916) 319-2133

DISTRICT OFFICE  
9700 SEVENTH AVENUE, SUITE 201  
HESPERIA, CA 92345  
(760) 244-5277  
FAX (760) 244-5447

# Assembly California Legislature



**JAY OBERNOLTE**  
ASSEMBLYMAN, THIRTY-THIRD DISTRICT

**COMMITTEES**  
VICE CHAIR: BUDGET  
VICE CHAIR: COMMUNICATIONS AND  
CONVEYANCE  
APPROPRIATIONS  
BUSINESS AND PROFESSIONS  
PRIVACY AND CONSUMER  
PROTECTION

**JOINT COMMITTEE**  
JOINT LEGISLATIVE AUDIT

April 23, 2019

Matthew Reichert  
Bureau of Reclamation  
Financial Assistance Support Section  
P.O. Box 25007, MS 84-27814  
Denver, CO 80225

Dear Mr. Reichert:

I am pleased to provide this letter of support for the City of Hesperia's application for \$75,000 to the Bureau of Reclamation (Bureau) WaterSMART Grants: Small-Scale Water Efficiency Projects for Fiscal Year 2019 program. Funding from this grant for the City's Water Service Relocation Program, Phase I project will allow the City to protect water quality and enhance their water conservation efforts.

The City's only source of water supply is the Mojave Groundwater Basin where approximately 14,000 acre-feet of water was produced and managed by the City in 2018, to serves its nearly 94,000 residents. The City's Water Service Relocation Program, Phase I project will relocate water services from old leaky pipelines located within easements at the rear of existing parcels to new pipelines located at the front of parcels and in street right-of-ways preventing water lose and degradation from deteriorating existing pipelines. This project will provide multiple benefits such as a reduction in operations and maintenance costs, reduced costs associated with replacement water production, and removal of the deteriorating pipelines from service will eliminate the risk of failure during seismic activities.

These funds are critical to protecting and conserving our most precious resource – water. The project will improve the water use efficiency, water conservation and will protect water quality. Removal of the deteriorating pipelines will respond to significant water loss that exceeds total production allotment. Water conservation will reduce the demand for additional production from the Mojave Groundwater Basin that, as indicated by Mojave Water Agency the Basin Watermaster, is in overdraft conditions.

The City continues to seek not only to be good environmental and financial stewards, but also to comply with the City of Hesperia's Urban Water Management Plan, which aims to reduce water use. It is the City's goals to conserve and use water more efficiently, improve energy efficiency of the distribution system, contribute to water supply sustainability of the water basin, and positively contribute to the State's water goals.

I am proud to endorse and support the City of Hesperia's efforts to pursue funding for the Bureau Project. As the City continues to experience rapid growth, it is more important than ever that infrastructure be updated to meet the growing needs of its residents. I respectfully ask that you give serious consideration to this worthwhile project.

Sincerely,

  
JAY OBERNOLTE  
Assemblyman, 33<sup>rd</sup> Assembly District



JOHN McMAHON, SHERIFF-CORONER

April 22, 2019

Matthew Reichert  
Bureau of Reclamation  
Financial Assistance Support Section  
P.O. Box 25007, MS 84-27814  
Denver, CO 80225

Dear Mr. Reichert:

I am writing this letter in support of the City of Hesperia's Bureau of Reclamation (Bureau) WaterSMART Grants: Small-Scale Water Efficiency Projects for Fiscal Year 2019 grant application for the Water Service Relocation Program, Phase I Project (Project).

The Project will improve water use efficiency, water conservation and protect water quality by relocating water services from old leaky pipelines located within easements at the rear of existing parcels to new pipelines located at the front of parcels and in street right-of-ways, which will prevent water loss and degradation experienced from the deteriorating existing pipelines. This project will also provide for a reduction in operations and maintenance costs, reduced costs associated with replacement water production, and removal of the deteriorating pipelines from service will eliminate the risk of failure during seismic activities.

These funds are critical to protecting and conserving our most precious resource – water, where the City's only source of water supply is the Mojave Groundwater Basin. Approximately 14,000 acre-feet of water was produced and managed by the City in 2018, to serve its nearly 94,000 residents.

The City continues to seek not only to be good environmental and financial stewards, but also to comply with the City of Hesperia's Urban Water Management Plan, which aims to reduce water use. It is the City's goals to conserve and use water more efficiently, improve energy efficiency of the distribution system, contribute to water supply sustainability of the water basin, and positively contribute to the State's water goals.

As Captain of the Hesperia Police Department, I am pleased to support the Hesperia's endeavor to secure \$75,000 in Bureau funding to protect the City's water. I hope you give this vital Project your utmost consideration.

Sincerely,

A handwritten signature in black ink that reads "Mike Browne".

Mike Browne, Captain  
San Bernardino County Sheriff's Department  
Hesperia Station



# HESPERIA UNIFIED SCHOOL DISTRICT

## ADMINISTRATION & EDUCATIONAL SUPPORT CENTER

David Olney  
Superintendent

Jovy Yankaskas  
Deputy Superintendent  
Educational Services

Karen Kelly-Pelayes  
Assistant Superintendent  
Personnel Services

Dr. George Landon  
Assistant Superintendent  
Business Services

Robert McCollum  
Assistant Superintendent  
Innovative Technology and  
Communication

Steve Hinojos  
Chief  
School Police

Board of Trustees

Mark Dundon  
Cody C. Gregg  
Marcy Kittinger  
Ella "Lee" Rogers  
Eric Swanson

Elementary Schools

Carmel•947-3188  
Cottonwood•949-1390  
Cypress•949-2596  
Eucalyptus•949-0815  
Hollyvale•947-3484  
Joshua Circle•244-6133  
Juniper•244-6161  
Kingston•244-8869  
Krystal•948-3611  
Lime Street•244-0512  
Maple•244-3096  
Mesa Grande•244-3709  
Mesquite Trails•949-3149  
Mission Crest•949-8265  
Topaz•244-4622

Secondary Schools

AEC, ROP•244-1771  
Canyon Ridge•244-6530  
Cedar Middle•244-6093  
Community Day•244-5751  
Hesperia High•244-9898  
Hesperia Jr. High•244-9386  
Mojave High•948-3999  
Oak Hills High•244-2283  
Ranchero Middle•948-0175  
Shadow Ridge ISP & Home  
Programs•949-8267  
Sultana High•947-6777

April 23, 2019

Matthew Reichert  
Bureau of Reclamation  
Financial Assistance Support Section  
P.O. Box 25007, MS 84-27814  
Denver, CO 80225

Dear Mr. Reichert:

The purpose of this letter is to express my support for the Bureau of Reclamation (Bureau) WaterSMART Grants: Small-Scale Water Efficiency Projects for Fiscal Year 2019 grant application being submitted by the City of Hesperia, California for the Water Service Relocation Program, Phase I Project (Project).

The Project will relocate water services from old leaky pipelines located within easements at the rear of existing parcels to new pipelines located at the front of parcels and in street right-of-ways, which will prevent water loss and degradation experienced from the deteriorating existing pipelines. This project will provide for a reduction in operations and maintenance costs, reduced costs associated with replacement water production, and removal of the deteriorating pipelines from service will eliminate the risk of failure during seismic activities.

These funds are critical to protecting and conserving our most precious resource – water, where the City’s only source of water supply is the Mojave Groundwater Basin. Approximately 14,000 acre-feet of water was produced and managed by the City in 2018, to serve its nearly 94,000 residents. This Project will improve water use efficiency, water conservation and protect water quality. Removal of the deteriorating pipelines will resolve the significant water loss that exceeds total production allowance. Water conservation will reduce the demand for additional production from the Mojave Groundwater Basin that, as indicated by Mojave Water Agency – the Basin Watermaster, is in overdraft conditions.

The City continues to seek not only to be good environmental and financial stewards, but also to comply with the City of Hesperia’s Urban Water Management Plan, which aims to reduce water use. It is the City’s goals to conserve and use water more efficiently, improve energy efficiency of the distribution system, contribute to water supply sustainability of the water basin, and positively contribute to the State’s water goals.

I am proud to support the City of Hesperia’s efforts to pursue funding for the Bureau Project. On behalf of the Hesperia Unified School District, I thank you in advance for your consideration of the City’s Bureau grant application.

Sincerely,



David Olney  
Superintendent

April 22, 2019

Matthew Reichert  
Bureau of Reclamation  
Financial Assistance Support Section  
P.O. Box 25007, MS 84-27814  
Denver, CO 80225

Dear Mr. Reichert:

On behalf of the Hesperia Chamber of Commerce and our 350-member businesses, I am writing to express my support for the City of Hesperia's request for Bureau of Reclamation (Bureau) WaterSMART Grants: Small-Scale Water Efficiency Projects for Fiscal Year 2019 funding for the Water Service Relocation Program, Phase I Project (Project).

As the Chairperson of the Governmental Affairs Committee for the Hesperia Chamber of Commerce, I recognize the importance of improving infrastructure that can enhance the City's business and residential attraction and appreciate the City's goals of creating improved conditions favorable to the community. This Project will improve water use efficiency, water conservation and protect water quality by relocating water services from old leaky pipelines located within easements at the rear of existing parcels to new pipelines located at the front of parcels and in street right-of-ways, which will prevent water loss and degradation experienced from the deteriorating existing pipelines.

Removal of the deteriorating pipelines will resolve the significant water loss that may exceed total production allowance. Water conservation will reduce the demand for additional production from the Mojave Groundwater Basin that, as indicated by Mojave Water Agency the Basin Watermaster, is in overdraft conditions. This project will also provide for a reduction in operations and maintenance costs, reduced costs associated with replacement water production, and removal of the deteriorating pipelines from service will eliminate the risk of failure during seismic activities.

These funds are critical to protecting and conserving our most precious resource – water, where the City's only source of water supply is the Mojave Groundwater Basin. The City continues to seek not only to be good environmental and financial stewards, but also to comply with the City of Hesperia's Urban Water Management Plan, which aims to reduce water use. It is the City's goals to conserve and use water more efficiently, improve energy efficiency of the distribution system, contribute to water supply sustainability of the water basin, and positively contribute to the State's water goals.

For these reasons, I wholeheartedly support the City of Hesperia's efforts to pursue funding for the Bureau Project and I respectfully ask that you give serious consideration to this worthwhile project.

Sincerely,



Shannon Shannon  
Chairperson Governmental Affairs  
Hesperia Chamber of Commerce

RESOLUTION NO. 2019-19

**A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF HESPERIA, CALIFORNIA, APPROVING THE APPLICATION FOR FUNDING FROM THE U.S. DEPARTMENT OF THE INTERIOR, BUREAU OF RECLAMATION, WATERSMART SMALL-SCALE WATER EFFICIENCY GRANT PROGRAM**

**WHEREAS**, the Bureau of Reclamation has issued a Funding Opportunity Announcement for funding and requests applications for the WaterSMART Small-Scale Water Efficiency Grant Program; and

**WHEREAS**, City of Hesperia is qualified and is willing and able to carry out all activities described in the grant application; and

**WHEREAS**, in this action the City of Hesperia declares the funding commitment as specified in the funding plan on the WaterSMART Small-Scale Water Efficiency project as described in the application; and

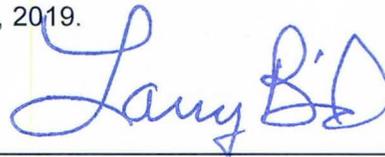
**WHEREAS**, in this action the City of Hesperia has declared its intent to execute the WaterSMART Small-Scale Water Efficiency project described in the application; and

**WHEREAS**, in this action the City of Hesperia will, upon an award and acceptance of the grant, agree to the terms of the grant.

**NOW THEREFORE**, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF HESPERIA AS FOLLOWS:

- Section 1. That the City Council does hereby approve the filing of an application for the WaterSMART Small-Scale Water Efficiency Grant Program; and
- Section 2. That the City Manager of the City of Hesperia or his/her designee is hereby authorized and empowered to execute in the name of the City of Hesperia all grant documents, including but not limited to, applications, agreements, contracts, amendments, and payment requests, necessary to secure federal funds to implement the approved grant project; and
- Section 3. That the City Clerk shall certify to the passage and adoption of this resolution and enter it into the book of original resolutions.

**ADOPTED AND APPROVED** this 16<sup>th</sup> day of April, 2019.



Larry Bird, Mayor

ATTEST:

  
Melinda Sayre  
City Clerk

STATE OF CALIFORNIA )  
COUNTY OF SAN BERNARDINO )  
CITY OF HESPERIA )

I, Melinda Sayre, City Clerk of the City of Hesperia, California, do hereby certify that Resolution No. 2019-19 was duly adopted by the City Council of the City of Hesperia, California at a Regular Meeting thereof held on the 16<sup>th</sup> day of April, 2019 by the following vote to wit:

AYES: Bird, Brosowske, Gregg, Holland, Swanson

NOES: None

ABSTAIN: None

ABSENT: None



Melinda Sayre, City Clerk

Seal



I, \_\_\_\_\_, City Clerk of the City of Hesperia, California, do hereby certify that the foregoing Resolution No. 2019-19 is a full, true and correct copy of that now in file in this office.

**IN WITNESS WHEREOF**, I have hereunto set my hand and affixed the seal of the City of Hesperia, California, this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

Melinda Sayre, City Clerk

Seal

