



CITY OF VENICE

Utilities Department

200 North Warfield Avenue, Venice, Florida 34285

(941) 480-3333 Fax (941) 486-2629

www.venicegov.com

9/1/2021

Southwest Florida Water Management District
Attn: Cooperative Funding Initiative (CFI) Administrator
2379 Broad Street
Brooksville, FL 34604

RE: Southwest Florida Water Management District (SWFWMD) Cooperative Funding Initiative (CFI) Grant Applications for Fiscal Year 2023.

Dear CFI Administrator:

The City of Venice Utilities Department is submitting two CFI applications for SWFWMD FY2023 consideration. We have detailed the matching funds as stated below:

- **City of Venice – Aquifer Storage and Recovery (ASR) Well project – The City is committed to this project and will include matching funds in the City's FY2023 budget.**
- **City of Venice - Toilet Rebate Phase 9 project – The City is committed to this project and will include matching funds in the City's FY2023 budget.**

If there are any questions or additional information needed, please contact me at (941) 882-7399.

Sincerely,

Edward Lavalée

City Manager

CC: Javier Vargas, Utilities Director
Patience Anastasio, Assistant Utilities Director
Linda Senne, Finance Director



CITY OF VENICE

401 W. Venice, Venice, Florida 34285
(941) 486-2626 Fax (941) 480-3031
www.venicegov.com

9/1/2021

Southwest Florida Water Management District
Attn: Cooperative Funding Initiative (CFI) Administrator
2379 Broad Street
Brooksville, FL 34604

RE: Southwest Florida Water Management District (SWFWMD) Cooperative Funding Initiative (CFI) Grant Applications for Fiscal Year 2023

Dear CFI Administrator:

Please accept this letter as the priority listing for the Southwest Florida Water Management District fiscal year 2023 Cooperative Funding applications for the City of Venice.

Priority 1: Aquifer Storage and Recovery Well

Priority 2: Toilet Rebate and Retrofit Project – Phase 9

If there are any questions or additional information needed, please contact me at (941) 882-7399.

Sincerely,

Edward Lavalley
City Manager

CC: Javier Vargas, Utilities Director
Patience Anastasio, Assistant Utilities Director
Linda Senne, Finance Director

CFI Application Information

Application Id: 281
 New Project? 0
 Project Name: City of Venice ASR Well
 Counties Benefited: Sarasota
 Available Programs: REDI
 Cooperator Information: City of Venice
 Contact Name: Javier Vargas
 Contact Email: jvargas@venicefl.gov
 Contact Phone: 9418827309
 Contact Ext:
 Contact Address: 3510 E laurel Road
 Contact City: venice
 Contact State: FL
 Contact Zip: 34275

Project Type and Scheduling

Project Type	Strategic Initiative
Water Supply	Reclaimed Water

Application Milestones

NONE

Description

Design, permitting, construction, testing, and independent performance evaluation (IPE) of an Aquifer Storage and Recovery (ASR) system to store and recover at least 60 million gallons per year (mgd) of reclaimed water on-site at the City's Eastside Water Reclamation Facility, an advanced wastewater treatment plant. If constructed, ASR would let the City store excess reclaimed water in the wet season, to be used in the dry season when demand exceeds plant flow. Funding was previously approved for 30% design, third party review (TPR), final design, and construction permitting. The District required TPR because of project costs and complexity. The FY2023 funding request is for construction. Future funding will be for testing, and operational permitting.

Benefit

This project will maximize the use of RCW for irrigation purposes thus reducing the amount of withdraws from shallow wells or using potable water for irrigation. Reduced shallow well withdraws reduces salt-water intrusion in the upper aquifer. Reduced use of potable water for irrigation reduces the demand on the potable water supply system. The contractual Measurable Benefit is the design, permitting, construction, testing, and independent performance evaluation of an ASR system that will operate for 20 years at a minimum storage and recovery rate of 60 mgd calculated using a 5-year moving average.

Cost

Total conceptual project cost: \$5,489,752 (design, permitting, construction, testing, TPR, and IPE) City of Venice: \$2,744,876, District: \$2,744,876 with \$232,500 budgeted in previous years, \$1,100,000 requested in FY2022, \$1,200,000 requested in FY2023 and the remaining \$212,376 is anticipated to be requested in future years. Project Cost Breakdown by Task: 1) Feasibility Study (COV funded) \$175,000 2) 30% Design \$125,000 3) 3rd Party Review \$15,108 4) Test Permitting: \$100,000 5) ASR Design and Bidding: \$525,000 6) ASR Construction: \$4,400,000 7) Cycle Testing: \$200,000 8) Operational Permitting: \$100,000 9) Independent Perf Eval \$24,687.

Complementary Efforts

The City of Venice is actively working to develop additional RCW customers, extending RCW distribution and transmission lines, enforcing shallow irrigation well prohibitions where RCW distribution is available, and enforcing existing RCW use requirements for new development. The City of Venice self-funded the initial feasibility study of the project (\$175,000). The City of Venice is also applying to increase the capacity of the reclaimed system with the current WRF operating permit renewal, which is under review by the FDEP.

Application Funding

Funding Source	Prior(\$)	FY2022(\$)	FY2023(\$)	Future(\$)
Applicant Share	232500	1,100,000	1,200,000	212,376
District Share	232,500	1,100,000	1,200,000	212,376

Application Documents

Document Name	Document Type
---------------	---------------

CFI Application Information

Application Id: 282
 New Project? 1
 Project Name: City of Venice Toilet Rebate and Retrofit Project - Phase 9
 Counties Benefited: Sarasota
 Available Programs:
 Cooperator Information: City of Venice
 Contact Name: Javier Vargas
 Contact Email: jvargas@venicefl.gov
 Contact Phone: 9418827309
 Contact Ext:
 Contact Address: 200 Warfield Ave. N.
 Contact City: North Port
 Contact State: FL
 Contact Zip: 34291

Project Type and Scheduling

Project Type	Strategic Initiative
Water Supply	Conservation

Application Milestones

Milestone: Project Start	Due Date: 1/1/2023
Milestone: Project Complete	Due Date: 12/31/2023
Milestone: Project Closeout and Final Reporting	Due Date: 4/1/2024

Description

The City of Venice Toilet Rebate and Retrofit Program consists of offering financial incentives to potable water customers for replacing conventional toilets and urinals with water-conserving equivalents, providing rebates for certain water saving improvements, providing do-it-yourself kits, and an educational component. The City will provide a \$100 credit to the customer's water bill upon WaterSense toilet or urinal installation and inspection. In order to assure that the replaced conventional toilets or urinals will not be reinstalled at another location, the City will require permanent disposal of the conventional toilet or urinal as a condition of the rebate. It is estimated that 50 percent of the City's water customers are eligible for this component. The other component of the program consists of providing 400 water conservation do-it-yourself kits and educational materials at no charge to City potable water customers. These kits contain such items as a low-flow showerhead, bath and kitchen faucet aerators, toilet flapper valve, toilet tank leak detection dye tablets, and water conservation educational materials. The total project cost is \$47,800, and the City is requesting \$23,900 from the District in FY2023. The City of Venice will match the funding request with funds within the Utilities Department water production budget. The City's per capita water usage for 2010 was 58.8 gpd per person. The City will administer the project in-house. The City will perform the rebate qualifications, educational component, installation inspections (when needed), and track actual pre and post water usage. Toilet installation rebates and conservation kit distribution will begin by January 1, 2023. It is anticipated that the project will be complete by December 31, 2023 with project close out and final reporting occurring no later than April 1, 2024.

Benefit

The project will replace approximately 175 high-volume toilets or urinals and provide up to 500 water conservation DIY kits, producing a water savings of approximately 5,840 gpd. The project's estimated cost/ benefit ratio is \$2.25 per thousand gallons (20 years at 8% interest). This cost/benefit ratio is based on the project cost of \$47,800 over a 20 year life of toilets/urinals.

Cost

1) Estimated Cost: \$47,800 2) 175 Toilet Rebates to include, Single, & Multi-family, and Commercial toilets @ \$100.00, with the total cost of \$17,500.00 3) 500 DIY Kits at a total cost of \$12,500.00 4) Educational Materials and Program Promotion at a total cost of \$17,800.00 5) In no instance will the rebate exceed the actual cost of the related toilet(s) and installation(s)

Complementary Efforts

The City of Venice makes water conservation a priority. The Utilities Department has in place a comprehensive water distribution and supply system with a tiered water rate structure along with a robust reclaimed water distribution system. Periodic water conservation tips and techniques are disseminated through messages printed on each bill or on separate bill inserts. The city also provides water conservation education and promotional materials, and in prior years provided plumbing retrofit kits. Under the Water Conservation Plan, utilities staff researches other water conservation practices for possible use. The stormwater division oversees flood protection ordinances. New subdivision regulations require all properties with a SWFWMD permit to recertify their system yearly. Public outreach, regular stormwater system inspections and a capital improvement program are just a few of the flood protection and water quality improvement initiatives performed. The Utilities Department educates the public on water conservation and offers promotional materials (i.e. toilet leak tablets, water charts, contests and water saver gadgets). Yearly, utilities sponsors a water conservation poster contest with the local schools. The city provides reclaimed water for commercial and residential properties in portions of the city. The watering restriction ordinance is

regularly updated to be consistent with the restrictions implemented by SWFWMD and adopted by Sarasota County.

Application Funding

Funding Source	Prior(\$)	FY2022(\$)	FY2023(\$)	Future(\$)
Applicant Share	283250	0	23,900	23,900
District Share	283,250	0	23,900	23,900

Application Documents

Document Name	Document Type
Regional Map.jpg	Map