

MEMORANDUM City of Venice

Choose an item.

TO: Ed Lavallee, City Manger

THROUGH: Javier Vargas, Utilitiy Director __ Kathleen Weeden, City Engineer

FROM: Brenda Westlake, Finance

DATE: September 5, 2019

COUNCIL APPROVAL: Yes

MEETING DATE:September 24, 2019

STRATEGIC PLAN GOAL: Upgrade and Maintain City Infrastructure and Facilities

SUBJECT: Southwest Florida Water Management District (SWFWMD) Cooperative Funding Program

Application and Letters

Background: Engineering, Stormwater Department and Utilities Department would like to submit SWFWMD Cooperative Funding Grant Applications for consideration of FY2021 funding.

- 1) Stormwater Outfall Monitoring Outfall #1 & #2 Total Cost \$350,000 (SWFWMD \$175,000 /City \$175,000)
- 2) Aquifer Storage and Recovery Well System Phase 3 ASR Design/Bidding Total Cost \$300,000 (SWFWMD \$150,000/City \$150,000)
- 3) Toilet Rebate and Retrofit Project Phase 8 Total Cost \$58,900 (SWFWMD \$29,450/City \$29,450) The SWFWMD applications require a Priority Listing letter that outlines the City's priority ranking of the projects and also a Funding Commitment letter that states the City has the matching funds because the grants require a 50% match.

Requested Action: Request the City Council's permission to submit the SWFWMD grant applications. If grants are funded, the agreements will be reviewed by City Attorney and Risk Management, prior to requesting grant agreement approval from the City Council.

If for an agenda item, this document and any associated backup created by City of Venice staff has been

reviewed for ADA compliance: Yes City Attorney Review/Approved: N/A Risk Management Review: N/A

Finance Department Review/Approved: Yes

Funds Availability (account number): 480-0000-334.36-00 and 421-0000-337.30-13



CITY OF VENICE

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

September 5, 2019

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

Dear CFI Administrator:

Please accept this letter as the priority listing for the Southwest Florida Water Management District fiscal year 2021 Cooperative Funding applications for the City of Venice.

Priority	Project Name
1	Stormwater Outfall Monitoring – Outfalls #1 and #2
2	Aquifer Storage and Recovery Well System
3	Toilet Rebate and Retrofit Project – Phase 8

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

Sincerely,

Edward Lavallee City Manager

CC: Javier Vargas, Utilities Director

John Banks, Utilities Project Manager Kathleen Weeden, City Engineer





CITY VENICE OF

401 West Venice Ave, Venice, Florida 34285 (941) 882-7399 Fax (941) 480-3031 www.venicegov.com

9/5/2019

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

Dear CFI Administrator:

The City of Venice Utilities Department has submitted three CFI applications for FY2021 consideration. We have detailed the matching funds as stated below:

- City of Venice Stormwater Outfall Monitoring Water Quality Project Outfall #1 & #2 -The City is committed to fund this project and will include matching funds in the City's FY2021/FY022 budget.
- City of Venice Utilities Aquifer Storage and Recovery Well System The City is committed to funding this project and will include matching funds in the City's FY2021/FY022 budget.
- City of Venice Toilet Rebate Phase 8 The City is committed to funding this project and will include matching funds in the City's FY2020/FY2021 budget.

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

Sincerely,

Edward Lavallee City Manager

CC:

Javier Vargas, Utilities Director John Banks, Utilities Project Manager Kathleen Weeden, Engineer





SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

FY2021 Cooperative Funding Initiative Application Form

Project Name	COV - Water Quality Improvemen	nts - Outfalls 1 & 2				
Project Number						
Cooperator	City of Venice					
Department	Utilities					
Contact Person Address	Javier Vargas 200 North Warfield Ave.					
City Sate Zip	Venice, FL 34285					
Phone #	941-882-7310					
Email	jvargas@venicegov.com					
Project Type:						
Water Supply X Wa	ater Quality Flood Protection [Natural Systems				
Strategic Initiatives:						
X Water Quality Mainter	nance and Improvement	Water Quality	Monitoring			
Alternative Water Sup	pply	Conservation				
Reclaimed Water		Regional Water	er Supply Planning	g		
Emergency Flood Res	sponse	Floodplain Ma	nagement			
Minimum Flows and L	evel Establishment and Monitoring	g Minimum Flow	s and Levels Red	covery		
Natural Systems Cons	servation and Restoration	Natural Syster	ns Identification a	and Monitoring		
Indicate All Counties to	Benefit From Project:					
Charlotte Citrus	s Desoto Hardee	Hernando	Highlands	Hillsborough	Lake	
Levy	atee Marion Pasco	Pinellas	X Sarasota	Sumter	Polk	
Project Description/Ben	efit/Cost					
Description:						
elevated bacteria levels a Phase 1 is funded and un	o decrease the intensity and duration long the Gulf Coast of Florida. Conderway to fully evaluate nutrient at & 2 have been identified as the co	nsistent with the FY2 nd bacterial loading	2020 Cooperative at the major outfa	Funding Initiative Apalls. Early Priortization	oplication,	
increase the capacity and will further reduce the amfrom the runoff from the G	tion at Venice Beach (Outfall #1) at leffectiveness of the swale and un ount of untreated stormwater that is Bulf system. As Outfall #1 discharge City of Venice with lifeguards, imbeach for the public use.	derground chamber is discharged to the es immediately adja	system installed Gulf thus effective cent to the bathin	in 2015. Increasing t ely removing the poll g beach (Venice Be	the capacity lutant loading ach) which is	
Outfall #1 - Venice Beach	ı - Granada Ave & The Esplanade	S - 36" PVC - Lat: 2	7.098703/Long: -	82,460404		
Outfall #2 - Venice Sands	s-Alhambra Rd - Double 46" PVC -	Lat: 27.095574/Lon	g: -82.459311			
Benefit:						
	nts measured based on pre- and p eria levels. These benefits will be n					
Cost:						
SWFWMD Grant Funded	ay)Phase 1 - Funded in FY2020 - (\$75,000 - Total \$150,000 nPhase 2 - Outfall 1 & 2 - Design/E	-	87			
100 to	I be conducted in-house to monitor					
girlooning ovoroignit will					CH HO WOIN	

Engineering oversight will be conducted in-house to monitor the Design/Build Team. No land acquisition will be required as work will be within the existing city owned property and right-of-way. Basis of cost estimate is an evaluation of the previous project constructed at a cost of \$564,000 plus design and sampling costs. Based on the location and anticipated scope of work, the City Engineer developed a cost estimate of \$350,000 for Phase 2 with 50/50 cost share between cooperative funding and City Stormwater Enterprise Fund 480 allocation included in the FY 2020 proposed budget including future FY2021 funding that is scheduled for adoption on September 24, 2019, by the Venice City Council.

\ 200- Total District and Cooperator share; for multi-year request, list future funding by fiscal year. • Breakdown of individual project component costs for which funding is being requested. Examples of itemized components include planning, land acquisition, design, construction, and costs for construction engineering and inspection services (CEI). • The basis of the cost estimate. • Cost savings estimate from owner direct purchase program (if applicable). • Cost benefit calculations (method varies by project type). • An estimated monthly or quarterly expenditure plan for the life of the project (what will be spent each month or quarter from project start to finish).

Describe your complementary efforts in developing, implementing and enforcing water conservation, water quality and flood protection ordinances.

The Board will consider the applicant's efforts in developing, implementing, and enforcing best water management practices, including but not limited to, conservation water rate structures and irrigation, landscape and flood protection ordinances. Additional information regarding eligible complementary efforts is available in the applicable project section of this document.

Funding Source	Prior Funding	FY2020 Budget	FY2021 Budget	Future Funding	Total Funding	
Applicant Share		75,000	175,000		250,000	
Manasota		75,000	175,000		250,000	
Total		150,000	350,000		500,000	
Matching Fund Reduction						
Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.						
Timelines						
Construction Initiated				06/01/202	1	
RFQ for Design/Build Team 10/01/2021					1	
Design/Permitting Complete 12/01/2021			1			
Construction Complete 04/01/2022			2			
Project Close-out & Final	Reporting			06/30/202	2	
Data Collection Assessment:						
X Surface Water Flow (Discharge) measurements X Groundwater or Surface Water Quality measurements						

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

FY2021 Cooperative Funding Initiative Application Form

Project Name	ASR-City of Venice Reclaimed Water ASR - Phase 3				
Project Number					
Cooperator	City of Venice				
Department	Utilities				
Contact Person	Javier Vargas				
Address	200 North Warfield Ave.				
City Sate Zip	Venice, FL 34285				
Phone #	941-882-7310				
Email	jvargas@venicegov.com				
Project Type:					
	/ater Quality Flood Protection Natural Systems				
Strategic Initiatives:					
Water Quality Mainte	enance and Improvement Water Quality Monitoring				
Alternative Water Su					
X Reclaimed Water	Regional Water Supply Planning				
Emergency Flood Re					
willimum Flows and	Level Establishment and Monitoring Minimum Flows and Levels Recovery				
	nservation and Restoration Natural Systems Identification and Monitoring				
Indicate All Counties to	Benefit From Project:				
Charlotte Citro	us Desoto Hardee Hernando Highlands Hillsborough Lake				
Levy	natee Marion Pasco Pinellas X Sarasota Sumter Polk				
Project Description/Ber	nefit/Cost				
Description:					
meet or exceed the amorneeds or the use of potal the demand for RCW is a Conversely, during low in maximize the availability. One alternative is to consaddition of an aquifer sto allowing the COV system million. The COV RCW s	P) Eastside Water Reclamation Facility (EWRF) has a permitted capacity of 8 MGD. The demand for is projected to be 4.8 MGD by 2020 based on the amount of RCW available (i.e., demand is expected to unt available). The use of this RCW offsets the need for pumping shallow coastal wells to meet irrigation ble water for this purpose. However, during periods of peak irrigation demands, spring and early summer, greater than Plant flow and must be met from storage. Current storage is limited to 65 million gallons. rrigation demand periods the COV must dispose of excess RCW through alternative methods. In order to of RCW for current peak demand periods an estimated additional 31 million gallons of storage is needed. struct storage facilities on the land surface at an estimated cost of \$40 million. The other alternative is the prage and recovery well which could provide well in excess of the 31 million gallons currently needed, thus not neet irrigation demands well into the future. The estimated cost of this alternative would be \$4.4 system includes bulk users (golf courses, parks, development common areas) as well as individual properties. The ASR Well will be located on the EWRF site.				
Benefit:					
using potable water for ir	e the use of RCW for irrigation purposes thus reducing the amount of withdraws from shallow wells or rigation. Reduced shallow well withdraws reduces salt-water intrusion in the upper aquifer. Reduced use ation reduces the demand on the potable water supply system.				
Cost:					
Project Cost :					
Phase 3 - ASR Design a	and Bidding \$300,000 (150,000 COV, 150,000 District)				
Overall Phases: 1) Feasil Funded 2020) \$165,000 \$ \$100,000, 6) Operational	bility Study (ongoing COV funded) \$175,000, 2) Preliminary Design, Permitting, 3 rd Party Review (CFI 3) ASR Design and Bidding: (Phase 3) \$300,000, 4) ASR Construction: \$4,400,000, 5) Cycle Testing: I Permit: \$100,000				

Describe your complementary efforts in developing, implementing and enforcing water conservation, water quality and flood protection ordinances.

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 COV has self-funded the initial feasibility study of the project that is currently ongoing.

Funding Source	Prior Funding	FY2020 Budget	FY2021 Budget	Future Funding	Total Funding
Applicant Share	175,000	82,500	150,000	2,300,000	2,707,500
Manasota		82,500	150,000	2,300,000	2,532,500
Total	175,000	165,000	300,000	4,600,000	5,240,000
Matching Fund Reduction					
Check here if requesting a red	duction in matching fund	ds requirement p	ursuant to s.288	3.06561, F.S.	
Timelines					
Feasibility Study (On-goin	g) COV			01/31/202	0
Preliminary Design and permitting (COV/CFI) 09/30/2020					0
ASR Design and Bidding 10/01/2021					1
Construction 09/30/2022					2
Cycle testing 09/30/2023					3
Project Complete 09/30/2024					4
Operational Permit 09/30/2024			4		
Project Closeout and final reporting 12/31/2024				4	
Data Collection Assessment:					
X Groundwater or Surface Water Level measurements X Monitor Well Installation					
X Lithologic/Geophysical data X Aquifer Testing					

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

FY2021 Cooperative Funding Initiative Application Form

Project Name	Conservation - City of Venice Toil	et Rebate and Retrofit Project -	Phase 8		
Project Number			Million Control		
Cooperator	City of Venice				
Department	Utilities				
Contact Person	Javier Vargas				
Address	200 North Warfield Ave.				
City Sate Zip	Venice, FL 34285				
Phone #	941-882-7310				
Email	jvargas@venicegov.com				
Project Type:					
X Water Supply Wa	ater Quality Flood Protection	Natural Systems			
Strategic Initiatives:					
Water Quality Maintenance and Improvement Water Quality Monitoring					
Alternative Water Supply X Conservation					
Reclaimed Water Regional Water Supply Planning					
Emergency Flood Res	Emergency Flood Response Floodplain Management				
Minimum Flows and Level Establishment and Monitoring Minimum Flows and Levels Recovery					
Natural Systems Cons	servation and Restoration	Natural Systems Identificati	on and Monitoring		
Indicate All Counties to	Benefit From Project:				
Charlotte Citrus	s Desoto Hardee	Hernando Highlan	ds Hillsborough	Lake	
Levy Mana	atee Marion Pasco	Pinellas X Sarasot	a Sumter	Polk	
Project Description/Ben	efit/Cost				
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 \$58,900, and the City is requesting \$29,450 from the District in FY2020. 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 2011 was 59 gpd per person. The city plans to hire a consultant to administer the project. The consultant will perform the rebate qualifications, educational component. installation inspections, and customer surveys while the City will track actual pre and post water usage. Toilet installation rebates and conservation kit distribution will begin by January 1, 2021. It is anticipated that the project will be complete by December 31, 2021 with project close out and final reporting occurring no later than April 1, 2022.

The project will replace approximately 249 high-volume toilets or urinals and provide up to 400 water conservation DIY kits, producing a water savings of approximately 16,330 gpd. The project's estimated cost/ benefit ratio is \$1.44 per thousand gallons (20 years at 8% interest). This cost/benefit ratio is based on the project cost of \$58,900 over a 20 year life of toilets/urinals.

Cost:

- Estimated Cost: \$58,900
- 249 Toilet Rebates to include, Single, & Multi-family, and Commercial toilets @ \$100.00, with the total cost of \$24,900.00
- Program Administration, 249 @ \$50.00, with a total cost of \$12,450.00
- 400 DIY Kits at a total cost of \$8,400.00
- Educational Materials and Program Promotion at a total cost of \$13,150,00
- In no instance will the rebate exceed the actual cost of the related toilet(s) and installation(s)

Describe your complementary efforts in developing, implementing and enforcing water conservation, water quality and flood protection ordinances.

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

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.

Funding Source	Prior Funding	FY2020 Budget	FY2021 Budget	Future Funding	Total Funding	
Applicant Share	114,950	29,450	29,450	29,450	203,300	
Manasota	144,400	29,450	29,450	29,450	232,750	
Total	259,350	58,900	58,900	58,900	436,050	
Matching Fund Reduction						
Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.						
Timelines						
Project Start 01/01/2021			1			
Project Complete		12/31/2021				
Project Closeout and Final Reporting				04/01/202	2	

Data Collection Assessment:

X Other data collection: Number of rebates and conservation kits