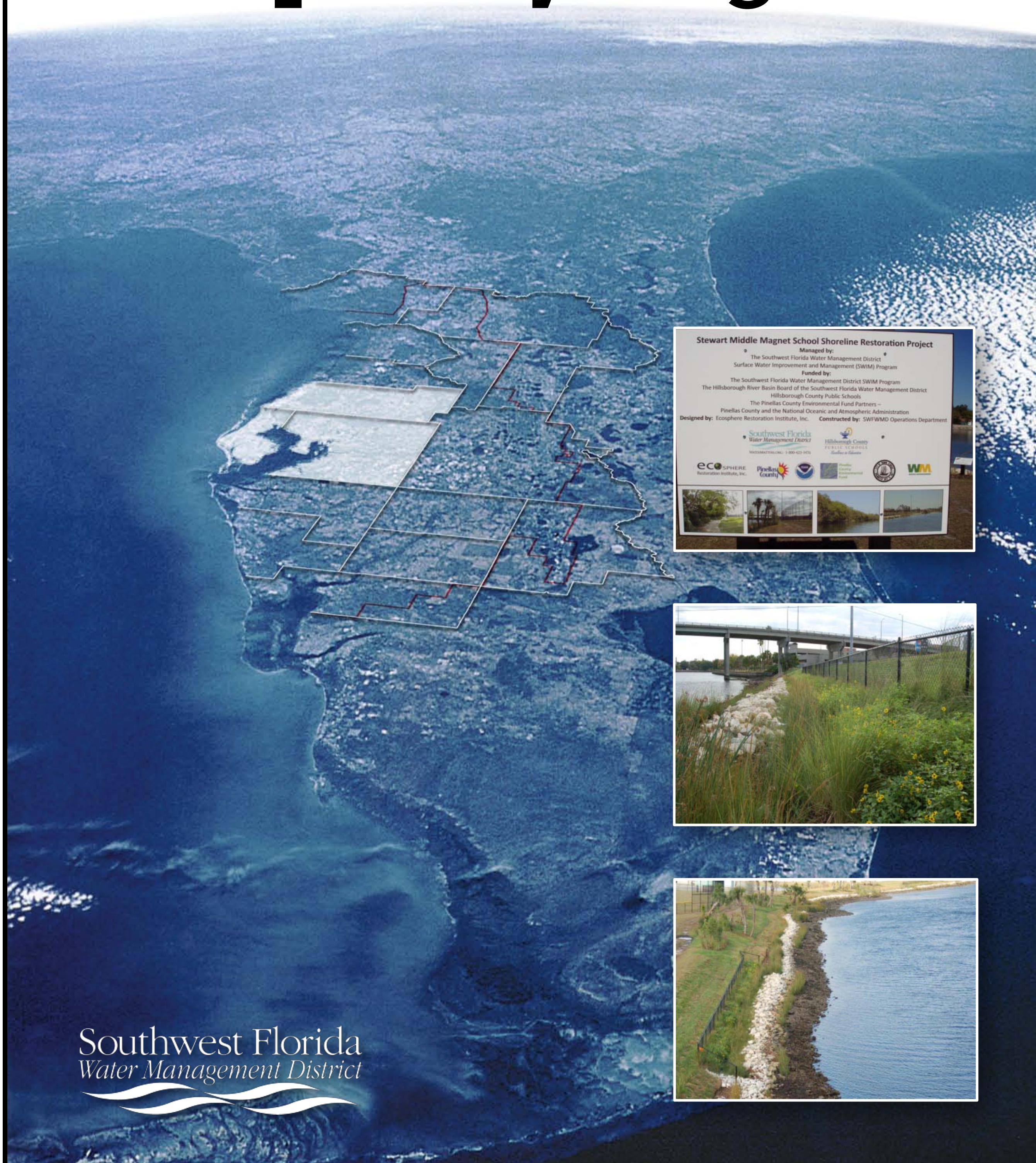
SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

Fiscal Year 2023

Cooperative Funding Initiative Applications

Tampa Bay Region



Southwest Florida
Water Management District

Project Name	SWF Project Number	Total Funding
56th St and Hanna Avenue Regional Drainage Improvements	Q027	$5,862,511
601 2nd St & 206 16th Ave Indian Rocks Beach	Q341	$395,000
AWS - Tampa Bay Water Southern Hillsborough Co. Booster Pump Station	Q146	$12,686,049
City of Safety Harbor Watershed Management Plan	Q340	$250,000
Clearwater Harbor and St. Joseph Sound Comp. Conserv. & Mgmt. Plan Surf Water Resource. Assess. Upd	Q233	$400,000
Coastal Zone 5 WMP	Q149	$575,000
DAR - South Hillsborough Aquifer Recharge Program (SHARP) - Phase 3	Q088	$13,000,000
Demand Management Plan Implementation - Phase 3	Q354	$4,318,260
Double Hammock Creek Watershed BMPs 1 & 5 Residential Flood Abatement Project	Q321	$11,410,944
Duck Slough BMP Operational Feasibility Study	Q326	$375,000
FY2023 Tampa Bay Environmental Restoration Fund	W024	$700,000
Heights South Regional Drainage Outfall	Q332	$27,052,034
Hillsborough County Countywide Watershed Model Migration and Integration	Q226	$2,000,000
Hillsborough County Digital Flood Insurance Rate Map (DFIRM) Updates	Q338	$750,000
Hillsborough County Watershed BMP Alternatives Analysis	Q337	$2,000,000
Hudson Avenue Regional Flood Abatement Project (fka Club Wildwood)	Q328	$1,950,314
Indian Avenue LID Improvements	Q349	$591,813
Key Vista Shoreline Stabilization Project	Q350	$100,000
Lower Peninsula Stormwater Improvements - Southeast Region	Q190	$25,000,000
Magnolia Valley Storage and Wetland Enhancement	N865	$8,976,900
McIntosh Park Integrated Water Management Plan	Q125	$11,771,612
McKay Creek Operable Lake Controls Feasibility Study	Q336	$200,000
Pinellas County Surface Water Augmentation Feasibility Study	Q353	$499,524
Q220 7th Street North, 50th Avenue North and Vicinity Storm Drainage Improvements	Q220	$5,457,000
Restoration - Weedon Island Tidal Marsh	W211	$937,802
Roosevelt Creek Watershed Management Plan	Q116	$800,000
Southeast Seminole Heights Flood Relief	N949	$31,540,049

Southern Hillsborough County Supply Expansion Pipeline	Q241	$290,108,000
Starkey Road Watershed Management Plan	Q199	$500,000
Study - Crosstown Bypass Feasibility Study	Q339	$100,000
Study - Curlew Creek & Smith Bayou Feasibility Study (Q221)	Q221	$500,000
Study - Joe's Creek Model Update, Alternatives Analysis and Feasibility Study (Q196)	Q196	$720,000
Sulphur Springs Flow Augmentation Feasibility Study	Q236	$640,000
Sutherland Bayou Watershed Management Plan	Q219	$300,000
Tarpon Springs Reclaimed Water Groundwater Storage Project	Q333	$3,500,000
Tarpon Springs Water Conservation Phase IV	Q322	$30,000
Upper Peninsula Stormwater Improvements - East Region	Q327	$45,362,600
WMP-Pithlachascotee/Bear Creek Watershed Management Plan	Q011	$2,000,000
	Total	**$513,360,412**

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

FY 2023 Cooperative Funding Initative Application Form

Project Name: 56th St and Hanna Avenue Regional Drainage Improvements

Project Number: Q027

Cooperator: Hillsborough County Public Works Dept.

Contact Person: Mikhal Moberg

Department:

Address: 601 E Kennedy Blvd 22nd Floor

Phone #: 8133071831

City State Zip: Tampa, FL 33602

Ext:

Email: mobergm@hillsboroughcounty.org

Project Type:

Flood Protection, Water Quality

Strategic Initiatives:

Emergency Flood Response

Floodplain Management

Water Quality Maintenance and Improvement

Project Description/Benefit/Cost

Description:

The 56th St. and Hanna Ave. Drainage Improvement Project will include the identification of deficiencies related to flood control and water quality, assess flooding risk and property damage, provide an alternatives analysis, and design plans. The proposed system will include:
• A second outfall to the Hillsborough River.
• Local drainage system improvements along 56th Street, and a diversion structure (smart box) near the intersection of 56th St. and E. Sligh Ave.
• Three(3) to five(5) acres of wet detention pond(s) along 56th St which will intercept the runoff from surrounding concrete industries to provide flood attenuation as well as water quality treatment.
The 56th St. and Hanna Ave. Drainage Improvement Project will include the identification of deficiencies related to flood control and water quality, assess flooding risk and property damage, provide an alternatives analysis, and design plans. The proposed system will include: A second outfall to the Hillsborough River. Local drainage system improvements along 56th Street, and a diversion structure (smart box) near the intersection of 56th St. and E. Sligh Ave. Three (3) to five (5) acres of wet detention pond(s)along 56th St or connection with existing storage features which will intercept the runoff from surrounding concrete industries to provide flood attenuation as well as water quality treatment.

Benefit:

The proposed project will improve the drainage system of 56th Street which serves as a major evacuation route.
The proposed project will be a continuation of FY20 CFI to improve the drainage system of 56th Street which serves as a major evacuation route. The proposed project will provide flood protection for the area adjacent to the intersection of 56th Street and Hanna Avenue and water quality treatment for stormwater runoff which may reduce nutrient loading to the Hillsborough River.
A Benefit /Cost Ratio of 2.71 was determined using the SWFWMD Benefit Cost Analysis Methodology. The project cost used in the analysis, $7,378,936, includes contingencies.

Cost:

The estimated cost provided in the FY20 CFI application was $3,350,000. The updated construction cost estimate is $4,804,487. Additionally, 30% contingency ($1,344,626) and 20% Mobilization and Maintenance of Traffic ($1,229,823) costs were included for a total of $7,378,936. This figure does not include design costs, which were funded by previous SWFWMD matching funds.

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

Water Conservation: Hillsborough County was the premier local government to decriminalize the violation of water use restrictions, and to adopt a civil citation process for the enforcement of the same in July 1993. A full-time Water Conservation Manager assures that the County stays abreast of conservation issues. This facilitates amendments to the County's Water Conservation Ordinance (HCO 03-07) as needed to quickly address changing conditions in the regulatory environment and as deemed appropriate by the County's administration. Flood Protection: The principal purpose of Hillsborough County's floodplain management program is to protect residents and business owners from flooding risks. Flooding disasters are the leading recurring hazard within the County and have the potential of affecting greater than one-quarter of the population at a value that is greater than five billion dollars in personal property. Construction standards and planning concepts are implemented through the County's Land Development Code. Floodplain Management Plan and Local Mitigation Strategy.

Funding Source	Prior Funding	FY2022	FY2023	Future Funding	Total Funding
Applicant Share	400,000	0	1,275,000	0	1,675,000
District Share	400,000	0	1,275,000	0	1,675,000
Other	0	0	2,512,511	0	2,512,511
Total	**800,000**	**0**	**5,062,511**	**0**	**5,862,511**

Matching Fund Reduction

☐ Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

Timelines

Kick-off Meeting	10/30/22
Project Completion	1/1/25

FY 2023 Cooperative Funding Initative Application Form

Project Name: 601 2nd St & 206 16th Ave Indian Rocks Beach

Project Number: Q341

Cooperator: Indian Rocks Beach

Contact Person: Hetty Harmon

Department:

Address: 2525 Drane Field Rd, Suite 7

Phone #: 8636464771

City State Zip: Lakeland, FL 33811

Ext: 211

Email: hharmon@civilsurv.com

Project Type:

Flood Protection, Water Quality

Strategic Initiatives:

Floodplain Management

Water Quality Maintenance and Improvement

Project Description/Benefit/Cost

Description:

This is a project to perform the implementation of exist Management Practices element of the District's Watershed Management Program for the City of Indian Rocks Beach Watershed. Implementation of BMP's includes the following tasks: design, development of construction documents, construction permitting, bidding and contractor selection, construction of the BMP's and construction engineering and inspection.
The City of Indian Rocks Beach storm water quality improvement project involves the installation of two in-line storm water treatment units, such as a Nutrient Separating Baffle Box (NSBB, aka Suntree) unit, CDS unit, or equivalent in-line treatment systems and improvements to the collection system.
The requested funds will used toward design, permitting construction, and construction engineering services necessary to complete the following:
Improvements of the stormwater pipe system for the 2nd Street and 16th Avenue basins with installation of 2 stormwater collection systems and piping. The existing piping crossing the street at 16th is being replaced, and upsized if calculations prove need, as is the discharge on 2nd street.

Benefit:

The project will improve the level of service deficiencies by improving conveyance within the service area. In addition, construction of the BMP's will remove sediments and pollutants from the stormwater runoff which discharges in to South Clearwater Harbor. This has shown a noted benefit to water quality within the area as this will be the 12th and 13th units installed within this collection area.

Cost:

The cost cost is estimated to be $395,000.00 for the 2nd Avenue and 16th Street projects

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

The City of Indian Rocks Beach has an extensive street sweeping program that sweeps over 279 miles per year collecting approximately 70 tons of material that would otherwise wash off into the ICWW. The City has adopted the Florida-Friendly fertilizer use ordinance and has distributed flyers and newsletters to over 5000 residents. The City has distributed information on improper disposal to assist in the report of illicit discharges and the importance of properly disposing of pet waste. Perhaps most importantly, the City has consistently funded water quality retrofit projects throughout the City in conjunction with the SWFWMD on a nearly annual basis as funding has allowed.

Funding Source	Prior Funding	FY2022	FY2023	Future Funding	Total Funding
Applicant Share	0	0	197,500	0	197,500
District Share	0	0	197,500	0	197,500
Total	**0**	**0**	**395,000**	**0**	**395,000**

Matching Fund Reduction

☐ Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

Timelines

Consultant Notice to Proceed	10/3/22
Pre-App SWFWMD	10/4/22
Design 30%	11/4/22
Design 60%	12/2/22
Permit Exemption	12/22/22
Design 90%	12/23/22
Fianl Design	1/10/23
Operation and Maintenance Plan	1/11/23
Cosntruction Bid Packages	1/19/23
Project Easement Aqusisition	2/17/23
Bid Advertisement	3/2/23
Bid Tabulation	3/3/23
Bid Award	3/31/23
Contractor Notice to proceed	4/3/23
Start Construction	4/24/23
Construction Inspection & reports	7/17/23
Substantial Completion	7/25/23
Complete Construction	8/1/23
Construction Record Drawings	8/10/23
Final Report	8/11/23
Project Close-Out	8/18/23

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

FY 2023 Cooperative Funding Initative Application Form

Project Name: AWS - Tampa Bay Water Southern Hillsborough Co. Booster Pump Station

Project Number: Q146

Cooperator: Tampa Bay Water

Contact Person: Danielle Keirsey

Department:

Address: 2575 Enterprise Road

Phone #: 7277912377

City State Zip: Clearwater, FL 33763

Ext:

Email: dkeirsey@tampabaywater.org

Project Type:

Water Supply

Strategic Initiatives:

Alternative Water Supply

Regional Water Supply Planning

Project Description/Benefit/Cost

Description:

This project is a new potable water booster pump station (Brandon Booster Station) to increase delivery capacity of alternative water supply to the Regional Delivery Point of Connection at the Lithia Water Treatment Plant, from the existing 30-inch Brandon-South Central Transmission Main. This project includes design, permitting, and construction activities. The new potable booster station will take advantage of residual line pressure in the Brandon Transmission Main coming from the High Service Pump Station and boost pressures to sustain a higher flow rate to the existing Lithia Point of Connection than is possible using only the High Service Pump Station discharge pressure. The new booster station capacity will be approximately 20 MGD with a net gain in transmission line flow of approximately 5-7 MGD.

Benefit:

This project has the potential to increase the available water supply by 5-7 MGD at the Lithia Point of Connection with Hillsborough County as one of Tampa Bay Water's near-term water supply projects. This project is part of a larger, overall strategy to increase Tampa Bay Water's regional water supplies in order to meet projected regional demands. This project helps bridge the near-term demand increases anticipated in southern Hillsborough county until one of the longer-term project options can be brought online in 2028.

Cost:

The total capital cost for this project is $12,686,049. The total requested funds in previous years is $1,000,000. Tampa Bay Water is requesting $2,700,000 in co-funding for Fiscal Year 2023. In future years, an additional $100,000 will be requested.

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

Tampa Bay Water uses a complex model to optimize and balance use of its existing supplies, which considers the impact on the environment, water quality, and reliability of the source water while meeting the overall system demands. Potential new supplies are incorporated into the model to evaluate the ability of the new supplies to meet future system demands while balancing the usage of Tampa Bay Water's existing sources. The model provides Tampa Bay Water with an effective tool for assessing and utilizing its existing and future water sources. Conservation is an important element of Tampa Bay Water's regional water supply. Tampa Bay Water plans and coordinates conservation programming in the Tampa Bay region. Member governments are responsible for implementing programs that quantifiably reduce water demand. Due to the successful conservation planning and implementation efforts by Tampa Bay Water and its members, the per capita use rate of approximately 100 gpcpd in the Tampa Bay region is significantly lower than the State average and exceeds District goals. Tampa Bay Water supports local government conservation programs by funding programs quantifying water conservation potential and cost, providing region-wide educational and marketing programs, and various research and development-based programs. Tampa Bay Water worked with its member governments in creating model irrigation and landscape ordinance language that was adopted by most members, has evaluated implementation of those ordinances, and is working with members to increase ease and effectiveness of implementation. Tampa Bay Water is a wholesale drinking water provider to our member governments and has no regulatory purview of any kind. Flood protection ordinances fall under the purview of the members and are implemented by them. Tampa Bay Water continues to seek better ways of serving its customers and protecting the environment. In addition to comprehensive hydrologic and environmental monitoring at Tampa Bay Water facilities, technologies employed include the Optimized Regional Operations Plan (OROP), short-term and long-term demand forecasting, and surface water forecasting methods to ensure that we keep pace with our member government demands, react quickly to changed conditions, and manage our facilities for the protection of the environment and the benefit of our customers.

Funding Source	Prior Funding	FY2022	FY2023	Future Funding	Total Funding
Applicant Share	500,000	500,000	5,000,000	2,886,049	8,886,049
District Share	500,000	500,000	2,700,000	100,000	3,800,000
Total	**1,000,000**	**1,000,000**	**7,700,000**	**2,986,049**	**12,686,049**

Matching Fund Reduction

☐ Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

Timelines

Design, Permitting, and Bidding	2/25/22
Construction/Engineering Inspection	4/1/24
Record Drawing and Substantial Completion	8/19/24

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

FY 2023 Cooperative Funding Initative Application Form

Project Name: City of Safety Harbor Watershed Management Plan

Project Number: Q340

Cooperator: Safety Harbor

Contact Person: Jamie Ahrens

Department:

Address: 1200 Railroad Ave

Phone #: 7277241550

City State Zip: Safety Harbor, FL 34695

Ext: 2008

Email: cahrens@cityofsafetyharbor.com

Project Type:

Flood Protection

Strategic Initiatives:

Floodplain Management

Project Description/Benefit/Cost

Description:

This project is proposed in an effort to identify capital improvements needed to improve the stormwater system's level of service (LOS) and improve the quality of water discharged to Old Tampa Bay and local creeks (Mullet Creek, Bishop Creek, Turtle Creek, and Alligator Creek) . The City has constructed numerous stormwater quality improvement projects to address locations where immediate improvement was needed. The City is pursuing a more comprehensive evaluation to their stormwater system to identify vulnerabilities and where LOS improvements can be made. Water Quality improvement will also be reviewed to determine how BMPs can strategically coupled with LOS improvements. Incorporating recommendations from the ongoing USACE study of Mullet and Bishop Creek, this evaluation and management plan is intended to serves as the basis for future Capital Improvements and Cooperative Funding Initiative applications. The City's stormwater system is comprised of pipes, structures, creeks, swales, ditches and ponds. City atlas will be verified to confirm pipe location, size and material. Data collection will also record where stormwater collection systems gaps may be present. This will provide an updated GIS system that reflects the full stormwater system. Environmental Resource Permits (ERPs) will also be reviewed throughout the City's limit to identify ownership (FDOT, County, Private) of critical stormwater infrastructure. Coordination with FDOT and Pinellas County will also be performed in order to fully integrate this system with the City's record. Topographic information will be obtained on primary drainage systems for the development of a City-wide stormwater model. Coordination will be performed with the City in order to add stormwater structure and piping metadata in order to better streamline future maintenance, improvements and NPDES annual reporting efforts. Once the systems inventory is populated, a City-wide stormwater model will be prepared. Using a SWFWMD-provided Digital Elevation Model (DEM), new developments of regional significance will be incorporated in a Digital Terrain Model (DTM). This surface will then serve as the basis for basin and subbasin delineation. A model schematic will be constructed in compliance with the latest GWIS schema. LOS determinations will be made for the existing system and improvements will be recommended where LOS improvements can be reasonably obtained. Water quality improvement opportunities will also be assessed.

Benefit:

This project will develop a long term stormwater management plan that will allow for the City to propose more refined flood protection and water quality improvement projects. This study will improve future maintenance and NPDES reporting by providing a complete, accurate, and updated GIS stormwater database.

Cost:

The estimated cost for the study ($250,000) includes field data collection, development and refinement of City's existing GIS system and LOS evaluations. With a land mass of ~4,300 Acres (6.7 sq. miles), the cost for the study is $58.14/acre.

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

The City of Safety Harbor is committed to maintaining clean water through annual NPDES reporting. The City continually strives to minimize street flooding and control erosion while improving water quality. The City maintains a Class 7 in its most recent 5-year review of the Community Rating System. The City continues to improve water quality when implementing stormwater improvements. The City currently maintains multiple BMP and continues to look for opportunities to implement more.

Funding Source	Prior Funding	FY2022	FY2023	Future Funding	Total Funding
Applicant Share	0	0	125,000	0	125,000
District Share	0	0	125,000	0	125,000

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

FY 2023 Cooperative Funding Initative Application Form

Funding Source	Prior Funding	FY2022	FY2023	Future Funding	Total Funding
Total	**0**	**0**	**250,000**	**0**	**250,000**

Matching Fund Reduction

☐ Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

Timelines

Project Development	12/31/22
Project Development (assume 11/01/2022 Start date)	12/31/22
Finalize Report	3/31/23
Watershed Evaluation	4/30/23
Floodplain Analysis	9/30/23
Alternative Analysis	12/31/23

FY 2023 Cooperative Funding Initative Application Form

Project Name: Clearwater Harbor and St. Joseph Sound Comp. Conserv. & Mgmt. Plan Surf Water Resource. Assess. Upd

Project Number: Q233

Cooperator: Pinellas County

Contact Person: Rob Burnes

Department:

Address: 22211 US Hwy 19 N Bldg 10

Phone #: 7274533149

City State Zip: Clearwater, FL 33756

Ext:

Email: rburnes@pinellascounty.org

Project Type:

Water Quality

Strategic Initiatives:

Water Quality Monitoring

Project Description/Benefit/Cost

Description:

This application is for year 2 funding of a four year project with a goal to identify sources of elevated nitrogen levels in Clearwater Harbor and St. Joseph Sound (CHSJS) and propose best management practices aimed at reducing nutrient inputs into the system. The CHSJS area includes extensive and diverse natural resources including seagrasses, parks and preserves, and avian migratory flyways among others. However, the CHSJS watersheds also contain some of the most densely populated urban land in the state. Pinellas County and the Southwest Florida Water Management District (SWFWMD) previously recognized the need to develop a Comprehensive Conservation and Management Plan (CCMP) to summarize existing information on the status and trends of natural resources, synthesize existing management efforts, and establish goals, actions, strategies, and priorities to ensure future stewardship of natural resources within CHSJS. This effort was completed in 2012.
Since the CCMP was completed, CHSJS has seen an increase in nitrogen concentrations, with several years exceeding the state criteria for the area. To better understand where the nutrients are coming from, Pinellas County would like to conduct a multiyear study aimed at identifying the sources of elevated nitrogen levels and proposing structural and non-structural best management practices that will reduce nitrogen inputs. This will be accomplished by reviewing existing water quality data, stormwater infrastructure, municipal stormwater practices, point sources (WWTFS, major outfalls), municipal maintenance practices, reclaimed usage areas, and major outfalls. Following the review, a targeted water quality sampling effort will be conducted for 18-24 months to better understand nutrient input sources and close any data gaps. Lastly, Pinellas County and its consultant will analyze all the information to identify major sources of nitrogen and propose best management practices aimed at reducing nutrient inputs.

Benefit:

The major benefits of this project will be the identification of sources of nutrients, both in terms of form and location, and recommendations for reducing nutrient loads in CHSJS. This will allow for future targeted best management practices aimed at reducing nutrient inputs in a cost-effective manner, with the ultimate goal of attaining designed uses and improved water quality.

Cost:

The total cost of this project is expected to be $400,000 over four fiscal years. The first-year cost (FY2022) will be $100,000, the second-year cost (FY2023) will be $50,000, the third-year cost (FY2024) is anticipated to be $150,000, and the fourth-year cost (FY2025) is anticipated to be $100,000.

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

The Pinellas County Comprehensive Plan obligates the County to protect, enhance, and improve water quality through water quality monitoring, watershed management plan development, implementation of projects, and environmental enforcement. In addition, the County is obligated by the Comprehensive Plan to work to improve flood protection and natural systems. The County has a fertilizer ordinance which restricts using products containing nitrogen or phosphorus during the rainy season with a related sales ban, a pet waste ordinance, and a street sweeping program all designed to reduce nutrient pollution to receiving waters. The County also has adopted a stormwater assessment that collects money to fund surface water programs which includes stormwater maintenance and related public outreach/education programs. In addition, many of our County vehicles are wrapped with stormwater education messages and professional landscape maintenance companies are required to take a BMP training certification course.

Funding Source	Prior Funding	FY2022	FY2023	Future Funding	Total Funding
Applicant Share	0	50,000	25,000	125,000	200,000

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

FY 2023 Cooperative Funding Initative Application Form

Funding Source	Prior Funding	FY2022	FY2023	Future Funding	Total Funding
District Share	0	50,000	25,000	125,000	200,000
Total	**0**	**100,000**	**50,000**	**250,000**	**400,000**

Matching Fund Reduction

☐ Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

Timelines

Research and Review Existing Data	6/1/23
Data Collection Plan	8/1/23
Data Collection	7/1/25
BMP Alternatives Analysis	12/1/25
Data Collection, Data Compilation and Analysis, Watershed, and Water Quality Assessment	12/1/25
Draft Report	3/1/26
Final Report	7/1/26

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

FY 2023 Cooperative Funding Initative Application Form

Project Name: Coastal Zone 5 WMP

Project Number: Q149

Cooperator: Pinellas County

Contact Person: Nabil Bawany

Department:

Address: 22211 US HWY 19 Bldg 1

Phone #: 7274644199

City State Zip: Clearwater, FL 33765

Ext:

Email: nbawany@pinellascounty.org

Project Type:

Flood Protection, Natural Systems, Water Quality

Strategic Initiatives:

Emergency Flood Response

Floodplain Management

Minimum Flows and Level Establishment and Monitoring

Water Quality Maintenance and Improvement

Project Description/Benefit/Cost

Description:

The project involves the development of a comprehensive Watershed Management Plan for the Coastal Zone 5 watershed, this would
include watershed evaluation, flood plain analysis, level of service (LOS) determination, surface water resource assessment (SWRA) and
best management practice (BMP) alternatives analysis. The result of the watershed management plan would be recommendations for
drainage, water quality and natural systems improvement projects. the Coastal Zone 5 Watershed covers approximately 6.5 square miles of southwest Pinellas County. No formal watershed management plan has been completed for this watershed as a result the watershed
evaluation and floodplain analysis will require a high level of effort. With Pinellas County being a highly urbanized area with continuous
redevelopment the watershed has seen major alterations to hydrology and hydraulics. The watershed has substantial flooding concerns around the Bay Point Golf Course.

Benefit:

The contractual measurable benefit will be the completion of a WMP that identifies floodplains, establishes LOS, performs SWRA, and
evaluates BMPs to address flooding, natural systems and water quality concerns and in the watershed.

Cost:

This request is for the third year of a three-year project, whose total project amount is estimated to be $575,000

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

The Pinellas County Comprehensive Plan obligates the County to protect, enhance, and improve water quality through water quality monitoring, watershed management plan development, implementation of projects, and environmental enforcement. In addition, the County is obligated by the Comprehensive Plan to work to improve flood protection and natural systems. The County has a fertilizer ordinance which restricts using products containing nitrogen or phosphorus during the rainy season with a related sales ban, a pet waste ordinance, and a street sweeping program all designed to reduce nutrient pollution to receiving waters. The County also has adopted a stormwater assessment that collects money to fund surface water programs, which include stormwater maintenance and related public outreach and education programs. In addition, many of our County vehicles are wrapped with stormwater education messages and professional landscape maintenance companies are required to take a BMP training certification course

Funding Source	Prior Funding	FY2022	FY2023	Future Funding	Total Funding
Applicant Share	75,000	112,500	100,000	0	287,500
District Share	75,000	112,500	100,000	0	287,500
Total	**150,000**	**225,000**	**200,000**	**0**	**575,000**

Matching Fund Reduction

☐ Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

Timelines

Procurement	4/1/21
Project Development	10/1/21
Watershed Evaluation	8/1/22
Floodplain Analysis, SLR and Critical Storm Analysis	8/1/23
FPLOS and BMP Alternatives Analysis	3/1/24
SWRA and BMPs for Water Quality	10/1/24

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

FY 2023 Cooperative Funding Initative Application Form

Project Name: DAR - South Hillsborough Aquifer Recharge Program (SHARP) - Phase 3

Project Number: Q088

Cooperator: Hillsborough County Water Department

Contact Person: Paul Schaedler

Department:

Address: 925 E Twiggs St

Phone #: 8132093096

City State Zip: Tampa, FL 33602

Ext:

Email: schaedlerp@hillsboroughcounty.org

Project Type:

Water Supply

Strategic Initiatives:

Alternative Water Supply

Conservation

Reclaimed Water

Regional Water Supply Planning

Project Description/Benefit/Cost

Description:

In 2009, Hillsborough County’s Public Utilities Department (PUD) began evaluating the feasibility of using highly-treated wastewater from its existing Advanced Water Reclamation Facilities to provide environmental improvements, a barrier to salt water intrusion, a path to the restoration of MIA water levels, and support a long-term and sustainable solution to water management challenges in the southern portion of its service area. The County’s goal of 100% reuse capability is the driver behind the development of the first reclaimed water direct aquifer recharge pilot project in the state of Florida. The County’s South Hillsborough Aquifer Recharge Project (SHARP) located at the Port Redwing Outfall became the first reclaimed water direct aquifer recharge project in the region. The County has continued with the SHARP program with two (2) additional recharge wells (Phase 2), both are cooperatively funded by the SWFWMD. One is completed and the other is in construction. PUD is now seeking to begin Phase three (3) of the SHARP Program and install additional Class V recharge wells in the South Hillsborough County area. The County’s aquifer recharge expansion vision includes a regional recharge system to mitigate saltwater intrusion in coastal Hillsborough County, provide a level of mitigation to the SWUCA, MIA, and to allow for additional groundwater development in an area that has had historical adverse water level impacts to the aquifer. It is anticipated that ten (10) aquifer recharge wells may be constructed as part of SHARP in several phases over the next 10 -15 years. Only six (6) wells are planned at this time, and of the six (6), one (1) has not been sighted yet. Each well is anticipated to operate at 2 MGD AADF with peak flows of approximately 3 MGD. This project, Phase 3 of SHARP, consists of the Design, Permitting and Construction of three (3) aquifer recharge wells, associated monitoring wells, and interconnection pipelines; Three (3) recharge well wellheads and appurtenances; Monitoring wells and appurtenances, including remotely powered sample pumps and purge water discharge facilities for all wells; Booster pumps and associated equipment; Electrical service to all monitoring wells for controls; SCADA, instrumentation and control, including automation so that the system can be remotely operated with all necessary monitoring systems in place to meet FDEP permit reporting requirements; Interconnecting pipelines (approximately 4,000 feet) to connect the recharge wells to existing reclaimed water transmission mains.

Benefit:

The County’s aquifer recharge expansion vision includes a regional recharge system to mitigate saltwater intrusion in coastal Hillsborough County, provide a level of mitigation to the SWUCA, MIA, and to allow for additional groundwater development in an area that has had historical adverse water level impacts to the aquifer. This project, SHARP Phase 3 (Three (3) Wells), is anticipated to recharge a total of approximately 6 MGD AADF with peak flows of approximately 9 MGD. The total anticipated recharge quantity of the SHARP well program, consisting of ten (10) wells, is 20 MGD AADF with peak flows of approximately 30 MGD.

Cost:

Total Phase 3 Project Cost: $13,000,000; Total District share: $3,250,000 in FY2020 and $3,250,000 anticipated in future fiscal years; Hillsborough County share: $6,500,000.

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

Hillsborough County was the premier local government to decriminalize the violation of water use restrictions, and to adopt a civil citation process for the enforcement of the same in July 1993. A fulltime Water Conservation Manager assures that the County stays abreast of conservation issues. This facilitates amendments to the County's Water Conservation Ordinance (HCO 03-07) as needed to quickly address changing conditions in the regulatory environment and as deemed appropriate by the County's administration. Enforcement of water conservation issues is done through Code Enforcement and Construction Services (Plumbing and Building Departments) in areas of their respective responsibilities. Reclaimed Water Master Plans have been developed to determine how reclaimed water throughout the County will be utilized for the primary goal of offsetting potable water use and meeting regulatory compliance. Additionally, the County has established a Reclaimed Water Improvement Unit (RWIU) ordinance to retrofit existing subdivisions with reclaimed water distribution systems. Hillsborough County has adopted a flood plain ordinance (County Ordinance 01-33) as required to participate as a community in the National Flood Insurance Program (NFIP) administered through the Federal Emergency Management Agency (FEMA). The county has developed land development regulations (LDR 96-35) to enforce the ordinance. All development is required to receive the proper building and site alteration permits. At this time flood plain issues are addressed to ensure compliance with the flood plain ordinance. Finished floor elevations are compared to the 100 year flood elevation. The County is also a participant in FEMA's Community Rating System and received a Class 6 rating. The Hillsborough County Reuse Program includes metering and an incentive based reuse rate structure for high volume water users and has proactive reclaimed water expansion policies which maximize utilization, water resource benefits and environmental benefits.

Funding Source	Prior Funding	FY2022	FY2023	Future Funding	Total Funding
Applicant Share	3,250,000	0	1,250,000	2,000,000	6,500,000
District Share	3,250,000	0	1,250,000	2,000,000	6,500,000
Total	**6,500,000**	**0**	**2,500,000**	**4,000,000**	**13,000,000**

Matching Fund Reduction

☐ Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

Timelines

1. Design - Design Begin	10/1/19
2. Procurement - Advertise, Bid, Award	10/31/21
3. Construction - Construction Begin	2/1/22
4. Design - Design Complete	9/30/23
5. Permitting - End Permitting	12/31/23
6. Construction - Construction Complete	12/31/24
7. Closeout - Final Closeout	6/30/25

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

FY 2023 Cooperative Funding Initative Application Form

Project Name: Demand Management Plan Implementation - Phase 3

Project Number: Q354

Cooperator: Tampa Bay Water

Contact Person: Amelia Brown

Department:

Address: 2575 Enterprise Road

Phone #: 7277912367

City State Zip: Clearwater, FL 33763

Ext:

Email: abrown@tampabaywater.org

Project Type:

Water Supply

Strategic Initiatives:

Conservation

Project Description/Benefit/Cost

Description:

Tampa Bay Water provides drinking water to six member governments: the counties of Hillsborough, Pasco and Pinellas, and the cities of New Port Richey, St. Petersburg and Tampa. These member governments in turn provide drinking water to 2.5 million people. Current water supplies include groundwater, surface water, and desalinated water. The agency is currently investigating the expansion of one or more of these water resources to meet the growing demand for water in the region.

In recognition of the growing demand, Tampa Bay Water updated the Demand Management Plan (DMP) in 2018 as part of its Long-Term Water Supply Plan update, and determined that demand-side efficiency opportunities can cost-effectively defer new supply development in the Tampa Bay region.

Thus, in March 2020, Tampa Bay Water launched the regional water conservation rebate program called Tampa Bay Water Wise in coordination with its members, and with support from the District’s cooperative funding initiative. The program is guided by a Working Group comprised of member government representatives as well as District and Agency staff.

EGIA is the third-party administrator for this program. and they process the rebates, manage the website and manage the marketing. The marketing plan consists of a combination of tactics, including signage at the point of purchase, utility bill stuffers, social media posts, e-newsletters, digital ads and search engine optimization.

In addition, we have retained the services of the University of Florida’s Program for Resource Efficient Communities to conduct billing data analyses to determine water savings for each rebate issued. Overtime this will help verify actual savings of many programs, and we will use this information to help us evaluate the efficacy of each program. And, the University works with the member’s billing data to determine customer eligibility even before they participate, which is especially important for the smart irrigation controller rebate which is available only to residents who over-water.

Twelve types of rebates are currently offered, two of which are not part of the CFI application: the shallow well rebate and the customizable rebate, which is a partnership with the District’s WISE program. In addition, we are proposing to add two new rebate types, for a total of 14 rebate types, 12 of which we are seeking co-funding for in 2023. Those 12 programs for which we are seeking co-funding are:

1. Single Family Residential HE Toilets ($100)
2. Multi-Family Residential HE Toilets ($75)
3. Single & Multi-family EZ toilet rebate ($40)
4. Single family SMS/ET Irrigation Controller – Professional Installation ($450)
5. Single Family SMS/ET Irrigation Controller - DIY Installation ($125)
6. Commercial (CII) Valve-Type Toilets ($75)
7. Commercial (CII) Tank-Type HE Toilet ($75)
8. Commercial (CII) 0.5 Gallon Urinal ($75)
9. Commercial (CII) Spray Rinse Valve ($50)
10. Commercial Dishwasher ($400)
11. Cooling Tower (sliding scale)
12. Florida Water Star ($1000)

The Single Family & Multi-Family EZ toilet rebate aims to increase the visibility of the program by making participation easier. The “DIY” installation option for the smart controller intends to “meet customers where they’re at,” based on customer feedback the program has received. The program will still take measures to ensure proper installation. These rebate options also stemmed from recommendations from our rebate administrator (EGIA) based on their previous experience managing a similarly large and successful rebate program, and in response to the lower-than-expected participation in Tampa Bay Water Wise since the program’s launch. This program was launched at the beginning of the covid pandemic, and it has been a difficult environment in which to obtain wide-spread participation, particularly across so many sectors throughout a large geography. These new options are intended to overcome some of the barriers we have encountered to date.

Benefit:

This project is designed to increase the efficiency of potable water use in the Tampa Bay region through and with Member Government participation. The Water Demand Management Plan Update (2018) demonstrated the cost effectiveness of conservation in comparison with the cost to develop new water supplies. The long-term objective of this effort is to achieve up to 11 million gallons per day of savings by 2030.

In the program's first six months, which was coincident with the onset of covid-19, the program issued 146 rebates, saving about 5,140 gallons per day (gpd). In the program's next 12 months, the program issued about 730 rebates with a savings of about 25,700 gpd (estimated totals). A majority of these rebates were for single family toilets, but multi-family toilet replacement projects in progress will outpace the single-family toilets. There are several other potential projects that may come to fruition as well. The program is expected to continue to grow substantially due to the improvements we have made (and are proposing to make) to the rebate program.

The projected 2023 savings are about 319,000 gallons per day from the 12 programs within the CFI funding, and with the addition of the two programs not included in the CFI application a total projected savings of over 384,00 gallons per day in 2023. These projected savings are based on current levels of rebate issuance, along with "high-end but feasible" projections for what the program can do in the coming years.

A customer survey is sent to all rebate recipients, and too all applicants who begin an application. The survey reveals that out of 57 survey respondents 89.5% are extremely or very likely to recommend the program, and 89.5% rate the program as excellent or good.

The six member governments are all participating in this regional program and have dedicated their staff resources to promoting the program and guiding its development. Not only is their level of support indicative of the benefit that it provides to all six member governments, in addition each member has acknowledged the benefits that this program provides to their customers.

Cost:

The total costs for the 12 rebates under the CFI program are $1,453,784, the District's share of which would be $726,892. This total cost represents a 50% reduction from our previous funding level request. It has been substantially scaled back due to the slower than anticipated start to the program, and reflects the "high-end but feasible" growth we anticipate realizing over the next couple years.

The costs for this program consist of 1) the rebate paid to customers, 2) the administrative costs paid to the 3rd party administrator EGIA to process the rebates and to the University of Florida for determining customer eligibility and actual water savings, 3) inspections (for large toilet installations, cooling towers, and DIY smart controllers), and 4) program promotion and customer education (which include development of social media, bill stuffers, in-store signs, digital marketing, educational brochures, etc.). The majority of the program costs are due to the rebates that are issued to customers, accounting for 73% of total program costs. The administrative and inspection costs account for 18%, and the program promotion accounts for 9% of total program costs.

Ten of the twelve program rebates cost between $0.43/1000 gallons and $1.34/1000 gallons, which indicate they are extremely cost effective. Two of the program elements are more expensive: the Florida Water Star rebate ($3.12/1000 gallons) and the EZ toilet rebate ($2.44/1000 gallons). The Florida Water Star rebate is going to be a priority in the coming years due to the substantial growth in the Tampa Bay Area. The EZ toilet rebate will achieve water savings, and is a very cost-effective way to build awareness about the program, such as through word of mouth and in-store advertising. It will also provide us the opportunity to contact applicants about additional rebates they may be qualified for. This EZ toilet rebate is envisioned as a quantity-limited program that will increase awareness, satisfaction and participation in the program in the near term. We will analyze the water savings, resulting additional applications, and impact on program awareness to assess holistically the efficacy of this program. When the program is looked at in its entirety, the weighted average of the whole program costs $1.53/1000 gallons. Together these programs still cost less than the cost of new water supply development, and as the number of rebates increase over time the program becomes even more cost effective.

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

Tampa Bay Water uses a complex model to optimize and balance use of its existing supplies, which considers the impact on the environment, water quality, and reliability of the source water while meeting the overall system demands. Potential new supplies are incorporated into the model to evaluate the ability of the new supplies to meet future system demands while balancing the usage of Tampa Bay Water's existing sources. The model provides Tampa Bay Water with an effective tool for assessing and utilizing its existing and future water sources.

Tampa Bay Water, as part of its Long-Term Water Supply Plan update, is required to evaluate and update the Demand Management Plan (DMP) every five years. The 2018 update to the DMP determined that demand-side efficiency opportunities can cost-effectively defer supply capacity development, and the Tampa Bay Water Board officially approved the DMP as part of its long-term water supply plan. The 2018 DMP evaluated water use and savings potential in the three main sectors of demand in the region; single family, multi-family and non-residential water uses. Technologies and programs specific to end uses within those sectors were evaluated to illustrate how increased efficiency of water use can cost effectively defer the need for capacity development based on programs beginning in Water Year 2020 and ending in Water Year 2030 using the Alliance for Water Efficiency's Conservation Tracking Tool.

Conservation is an important element of Tampa Bay Water's regional water supply. For many years Tampa Bay Water planned and coordinated conservation programming in the Tampa Bay region by coordinating educational materials and analyses, and by funding Florida Friendly Landscaping agents to work directly with residents to reduce water use and improve landscaping practices. Currently, Tampa Bay Water supports local government conservation by managing the regional rebate program Tampa Bay Water Wise, which based on the 2018 Demand Management Plan update. Tampa Bay Water Wise is a collaborative effort, steered by a working group comprised of staff from each member government and the District.

Tampa Bay Water is a wholesale drinking water provider to our member governments and has no regulatory authority. Flood protection ordinances fall under the purview of the members and are implemented by them.

Funding Source	Prior Funding	FY2022	FY2023	Future Funding	Total Funding
Applicant Share	1,432,238	0	726,892	0	2,159,130
District Share	1,432,238	0	726,892	0	2,159,130
Total	**2,864,476**	**0**	**1,453,784**	**0**	**4,318,260**

Matching Fund Reduction

☐ Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

Timelines

Implementation & Program Promotion - Commence	1/1/23
Implementation & Program Promotion - Complete	12/31/23
Savings Analysis - Complete	3/1/25
Draft Final Report - Complete	6/1/25
Final Report - Complete	7/1/25

This page intentionally left blank

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

FY 2023 Cooperative Funding Initative Application Form

Project Name: Double Hammock Creek Watershed BMPs 1 & 5 Residential Flood Abatement Project

Project Number: Q321

Cooperator: Pasco County

Contact Person: David Z. Sua

Department:

Address: 4454 Grand Boulevard

Phone #: 7278343611

City State Zip: New Port Richey, FL 34652

Ext: 1041

Email: dsua@pascocountyfl.net

Project Type:

Flood Protection, Water Quality

Strategic Initiatives:

Floodplain Management

Water Quality Maintenance and Improvement

Project Description/Benefit/Cost

Description:

This is a multi-year project that will abate structure and street flooding for several communities in the Double Hammock Creek Watershed, including the following residential communities: Coventry Unit 3, Jasmine Lakes Units 7-D and 8-A, Holiday Hills Estates Units 1 and 2, Palm Terrace Estates Units 1 and 7 and Palm Terrace Gardens Unit 2. The project builds on, modifies and implements recommendations from the Southwest Florida Water Management District cooperatively funded Double Hammock Creek Watershed Best Management Plan (BMP) Alternatives completed by CH2M Hill Engineers, Inc., in July of 2018.

Benefit:

The project has a calculated Benefit Cost Ratio of 2.34, which was computed using version 1.0 of the October 2020 Southwest Florida Water Management District Stormwater Improvement Flood Protection Benefit Cost Analysis Tool.

Cost:

Total project cost is estimated to be $11,410,944. This funding request is for 30% design as well as third party review ($301,440.00).

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

Pasco County's reclaimed water system includes metering and incentive-based reuse rate structures for high volume water users and has pro-active reclaimed water expansion policies which maximize utilization, water resource benefits, and environmental benefits.
Since 2001, the Pasco County Board of County Commissioners (BCC) has maintained a once-a-week, residential, lawn-irrigation limitation. Highlights of Pasco County Ordinance No. 01-08 include the following:
1. One day-per-week irrigation limitation on potable water usage.
2. Curtailed use of potable water for irrigation when rain has occurred within 24 hours.
3. Twice-a-week limitation on reclaimed-water usage.
4. Washing of nonbusiness, personal vehicles only using low-volume methods and over pervious surfaces.
5. Prohibiting aesthetic uses of water unless such use also provides a necessary aeration or water-quality benefit.
6. Use of reclaimed water for road construction activities when available.

In 2020, Pasco County Utilities beneficially reused 100% of wastewater, resulting in zero surface water discharge. The bulk rate charged for the use of reclaimed water is $0.70 per 1,000 gallons for customers that have storage capability. All other bulk customers that feed directly off of the system will be charged $0.35 per thousand gallons used. Residential reclaimed water customers will notice a new base charge of $11 for reclaimed water, which includes the first 10,000 gallons, and then a tiered rate of $1.10 for every additional 1,000 gallons used.
To help residential reclaimed customers as well as potable customers conserve as much water as possible, Pasco County Utilities provides complimentary site visits, which include re-programming irrigation controllers, completing irrigation evaluations, and educating homeowners about how to efficiently operate their irrigation systems. Pasco County Utilities also provides conservation messaging to residential reclaimed customers through mass emails, newsletters, and social media.
Pasco County's potable water rates are applied in a water conservation inclining block rate.
Pasco County Ordinance No. 93-16 requires each new development to construct a reclaimed water distribution system as a condition of wastewater service when the development is within designated areas in the Pasco County Master Reuse System (PCMRS) and when providing the development with reclaimed water supply is determined to be in the best interest of the County.
Pasco County participates in the National Flood Insurance Program, administered through the Federal Emergency Management Agency (FEMA). All finished floor elevations are required to be above the 100-year flood elevation. These elevations are reviewed

prior to construction and certified after construction.
Pasco County Land Development Code No. 403.6 Fill Ordinance requires permit applications and review for placement of fill greater than five cubic yards on properties.

Funding Source	Prior Funding	FY2022	FY2023	Future Funding	Total Funding
Applicant Share	0	0	150,720	5,554,752	5,705,472
District Share	0	0	150,720	5,554,752	5,705,472
Total	**0**	**0**	**301,440**	**11,109,504**	**11,410,944**

Matching Fund Reduction

☐ Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

Timelines

Conceptual Permit	10/29/23
30% Design Package	4/26/24
Third-party Review	9/23/24

FY 2023 Cooperative Funding Initative Application Form

Project Name: Duck Slough BMP Operational Feasibility Study

Project Number: Q326

Cooperator: Pasco County

Contact Person: Sammy Huey

Department:

Address: 4454 Grand Blvd.

Phone #: 7278343611

City State Zip: New Port Richey, FL 34652

Ext: 1037

Email: shuey@pascocountyfl.net

Project Type:

Flood Protection

Strategic Initiatives:

Emergency Flood Response

Floodplain Management

Project Description/Benefit/Cost

Description:

The primary purpose of the feasibility study is to determine whether the constructed operable structures at BMP 10 in the Duck Slough sub-wateshed can be opened to allow additional stormwater flow to pass from Pasco County into the downstream watershed in Pinellas County. The operable structures at BMP 10 were originally permitted in 2008 with the condition that operation of the gates would not be allowed until a study could determine whether the downstream watershed in Pinellas County had sufficient capacity to accept the additional flow. No study has been performed to date, and the constructed gates have remained unused. The study will develop alternatives to mitigate any impacts, should the study determine that the downstream watershed does not have sufficient capacity, and will evaluate new alternatives along the slough that outfalls to the Anclote River. Additionally, the study will reevaluate the operating procedures for the entire operable structure system (9 gate locations) within the Duck Slough sub-watershed to optimize flood protection benefits.

Benefit:

The study would help Pasco County develop future flood reduction measures in the Duck Slough sub-watershed in a way that does not impact downstream properties in the Brooker Creek Watershed in Pinellas County. It will also help Pasco County better define the operating schedules of the nine existing structure locations.

Cost:

The feasibility study is anticipated to take 570 days to complete with a total cost of $375,000.

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

Pasco County's reclaimed water system includes metering and incentive-based reuse rate structures for high volume water users and has pro-active reclaimed water expansion policies which maximize utilization, water resource benefits, and environmental benefits.
Since 2001, the Pasco County Board of County Commissioners (BCC) has maintained a once-a-week, residential, lawn-irrigation limitation. Highlights of Pasco County Ordinance No. 01-08 include the following:
1. One day-per-week irrigation limitation on potable water usage.
2. Curtailed use of potable water for irrigation when rain has occurred within 24 hours.
3. Twice-a-week limitation on reclaimed-water usage.
4. Washing of nonbusiness, personal vehicles only using low-volume methods and over pervious surfaces.
5. Prohibiting aesthetic uses of water unless such use also provides a necessary aeration or water-quality benefit.
6. Use of reclaimed water for road construction activities when available.

In 2020, Pasco County Utilities beneficially reused 100% of wastewater, resulting in zero surface water discharge. The bulk rate charged for the use of reclaimed water is $0.70 per 1,000 gallons for customers that have storage capability. All other bulk customers that feed directly off of the system will be charged $0.35 per thousand gallons used. Residential reclaimed water customers will notice a new base charge of $11 for reclaimed water, which includes the first 10,000 gallons, and then a tiered rate of $1.10 for every additional 1,000 gallons used.
To help residential reclaimed customers as well as potable customers conserve as much water as possible, Pasco County Utilities provides complimentary site visits, which include re-programming irrigation controllers, completing irrigation evaluations, and educating homeowners about how to efficiently operate their irrigation systems. Pasco County Utilities also provides conservation messaging to residential reclaimed customers through mass emails, newsletters, and social media.
Pasco County's potable water rates are applied in a water conservation inclining block rate.
Pasco County Ordinance No. 93-16 requires each new development to construct a reclaimed water distribution system as a

condition of wastewater service when the development is within designated areas in the Pasco County Master Reuse System (PCMRS) and when providing the development with reclaimed water supply is determined to be in the best interest of the County.
Pasco County participates in the National Flood Insurance Program, administered through the Federal Emergency Management Agency (FEMA). All finished floor elevations are required to be above the 100-year flood elevation. These elevations are reviewed prior to construction and certified after construction.
Pasco County Land Development Code No. 403.6 Fill Ordinance requires permit applications and review for placement of fill greater than five cubic yards on properties.

Funding Source	Prior Funding	FY2022	FY2023	Future Funding	Total Funding
Applicant Share	0	0	187,500	0	187,500
District Share	0	0	187,500	0	187,500
Total	**0**	**0**	**375,000**	**0**	**375,000**

Matching Fund Reduction

☐ Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

Timelines

Data Collection	4/2/23
Modeling	7/31/23
BMP 10 Operations and Impact Mitigation	10/29/23
BMP Alternatives and Impact Mitigation	1/27/24
Develop Gate Operating Procedure	4/26/24
Final Report	7/25/24

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

FY 2023 Cooperative Funding Initative Application Form

Project Name: FY2023 Tampa Bay Environmental Restoration Fund

Project Number: W024

Cooperator: TBEP

Contact Person: Maya Burke

Department:

Address: 263 13th Ave S, Suite 350

Phone #: 7278932765

City State Zip: St Petersburg, FL 33701

Ext:

Email: mburke@tbep.org

Project Type:

Natural Systems, Water Quality

Strategic Initiatives:

Natural Systems Conservation and Restoration

Natural Systems Identification and Monitoring

Water Quality Maintenance and Improvement

Project Description/Benefit/Cost

Description:

This project is for Year 11 of the highly successful Tampa Bay Environmental Restoration Fund (TBERF) to fund restoration, applied
research, and education initiatives in Tampa Bay and its contributing watershed, consistent with the District's core mission and priorities
expressed for the Tampa Bay Planning Region. TBERF is a competitive grant program open to public entities (including SWFWMD) and
NGOs, with project awards from $25,000 to $250,000 to support habitat restoration, water quality improvement and environmental education. Project proposals will be solicited through a widely-distributed Request for Proposals early in 2023, following execution of the
contract between SWFWMD and TBEP. Eligible proposals are reviewed by a Proposal Review team, consisting of scientists, resource
managers, and restoration practitioners who provide their findings to the TBEP Executive Director. The TBEP Policy Board (which includes a District Governing Board member) approves the final list of projects to be funded in May 2023. All funded projects will be
initiated by September 2023, and are generally 1-3 years in duration. In the first nine years (2013-2021), SWFWMD CFI funds were
matched with other public and private sources to provide more than $7.2M for 80 competitively-awarded projects. $1.45M has been
awarded to nine different District projects for the same period.

Benefit:

The TBERF request presents an opportunity to leverage SWFWMD funds with other public and private partners in the Tampa Bay area
and funds from outside Florida to directly address SWFWMD core mission objectives. In the first nine years (2013-2021), SWFWMD
CFI funds were matched with other public and private sources to provide funds for 80 competitively-awarded projects, resulting in measurable environmental benefits including: 7,500 acres of planned or restored coastal habitat; more than 2,351 oyster domes installed; 200 acres of seagrass enhanced; 7,198 linear feet of living shoreline installed; 1,136 acres of wetland habitat restored; treatment of urban runoff from 734 acres of highly urbanized areas; and 26 applied research projects addressing topics such as Florida-Friendly Landscaping, natural resources and nutrient management education, assessment of fish habitat, harmful algal blooms, hard bottom substrate, remote sensing technology, existing habitat value of dredged holes in Tampa Bay, carbon sequestration in coastal habitats, and microplastics abundance. Projects selected for the tenth year of the TBERF grant program (projects are scheduled to be selected in
spring 2022) will have similar requirements to provide significant measurable environmental benefits consistent with the District's core
mission, strategic initiatives and regional priorities.

Cost:

The Tampa Bay Estuary Program will continue to act as the local sponsor for the FY2023 TBERF. Restore America's Estuaries (RAE), a

501(c)(3) non-profit organization, will act as our national partner, and brings the ability to leverage local funds with funds obtained through
appropriations, environmental fines, and philanthropic gifts from entities beyond the Tampa Bay area. For FY2023, the CFI request of
$350,000 is expected to be met with funds from Hillsborough County, Pinellas County, The Mosaic Company, TECO, Publix, and FDOT. It is anticipated that additional funds will be raised from other local and national sources.

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

Generally, this category does not apply to the Tampa Bay Estuary Program since the program has no regulatory authority or ability to pass
ordinances. However, TBEP does have a Comprehensive Conservation and Management Plan (CCMP), approved by federal, state and local
governments (including SWFWMD), that lays out a detailed road map for Tampa Bay restoration and recovery. This Plan includes measurable goals and strategic initiatives for Tampa Bay and its contributing watersheds. Implementation of the CCMP by TBEP partners,
in particular SWFWMD, has led to an internationally-recognized restoration effort in Tampa Bay. The CCMP also addresses water conservation and management issues.

Funding Source	Prior Funding	FY2022	FY2023	Future Funding	Total Funding
Applicant Share	0	0	350,000	0	350,000
District Share	0	0	350,000	0	350,000
Total	**0**	**0**	**700,000**	**0**	**700,000**

Matching Fund Reduction

☐ Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

Timelines

RFP Advertisement	2/28/23
RFP Evaluation and Award	5/31/23
NTP Issued to Contractors	9/30/23
FY23 Projects Closed Out/Measurable Benefits Achieved	9/30/26

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

FY 2023 Cooperative Funding Initative Application Form

Project Name: Heights South Regional Drainage Outfall

Project Number: Q332

Cooperator: Florida Department of Transportation

Contact Person: Craig Fox, PE

Department:

Address: 11201 N. McKinley Drive

Phone #: 8139756082

City State Zip: Tampa, FL 33612

Ext:

Email: Craig.Fox@dot.state.fl.us

Project Type:

Flood Protection

Strategic Initiatives:

Floodplain Management

Project Description/Benefit/Cost

Description:

The Heights South Regional Drainage Outfall Project is a Stormwater Improvement to address chronic regional flooding in the traditionally underserved historic neighborhoods of Tampa Heights and Seminole Heights and their connection to downtown job centers in Tampa, Florida. This region is collectively known as the Heights.

This CFI application is to address street and structure flooding and business and property damage due to vehicular wheel splash in the area surrounding Florida Ave. and Tampa St. (SR 685) from MLK Blvd. south to 7th Ave. This 244-ac drainage basin is in the Hillsborough River Watershed and consists of mostly developed urban areas that drain to a tidally influenced portion of the Hillsborough River.

A conceptual analysis completed in March 2020 titled: 'Conceptual Drainage Analysis for The Heights Mobility PD&E' delineated drainage basin areas, evaluated the existing storm system for capacity and identified capacity improvements.

Surface runoff flow patterns are generally from east to west between I-275 and the River. Conveyance is both via existing storm sewer systems and by surface runoff along streets, before ultimately discharging west to the River. SR 685 (Florida Ave. and Tampa St.). These streets are crowned roadways, which obstruct this east to west surface flow and limits discharge to downstream areas. This along with significantly undersized storm sewer pipes and outfalls and the lack of collection or positive drainage at low spots, has resulted in regional flooding. The spread and ponding within the vehicular wheel path along SR 685 results in water intrusion and water damage to adjacent buildings, unsafe transportation conditions for motorists, pedestrians, bicyclists and transit users and damage to SR 685 and the intersecting local streets.

The recommended drainage improvements include:
1. Adjusting outfall tributary basin areas to match the capacity of the existing outfalls.
2. Identify outfalls to be upgraded in coordination with the City of Tampa.
3. Construct a storm sewer collection system to provide positive drainage for the region by way of a new main trunk line to serve both SR 685 and regional contributing areas.

The FDOT has already completed a pre and post watershed model to evaluate the recommended drainage improvements. The watershed model was used to develop specific proposed drainage improvements, determine the regional benefit and complete a cost estimate. This CFI application is for the implementation (design and construction) of the proposed regional drainage improvements.

The proposed regional improvements include:
1. Limit drainage area to the existing Plymouth St. outfall - Construct a new storm sewer trunk line along Tampa St. to adjust basin area to match the capacity of the existing Plymouth St. outfall. The remaining basin area will be diverted to the new trunk line.
2. New storm sewer trunk line – Construct new trunk line along Florida Ave. and Tampa St. with lateral connections along Floribraska Ave., Columbus Dr. and Palm Ave.

3. New Outfall: Construct a CBC along Tampa St. from Columbus Dr. south to 7th Ave., and then west along 7th Ave. with ultimate outfall to the River at North Ola Ave.

The proposed improvements have been discussed and continue to be coordinated with the City of Tampa for future expansion of drainage and water quality improvements.

Benefit:

The proposed project will provide regional flooding abatement and protection along the SR 685 project corridor, the traversing local and collector roadways and adjacent neighborhoods for the 5-year design storm event through the 100-year storm event. The proposed improvements will alleviate impacts to structures and businesses located adjacent to SR 685 caused by vehicular wheel splash, improve roadway safety and minimize traffic impacts and roadway damage.

Cost:

Given that the Heights South Regional Drainage Outfall proposed improvements are scheduled to occur with other improvements (such as utilities and roadway infrastructure), only the cost associated with the 30% drainage design, Third Party Review, construction of the proposed regional drainage improvements (main conveyance trunk line and collection system) and roadway restoration costs to restore the area above the drainage improvements are included for funding consideration. These costs are estimated to be $27,052,035.

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

There are numerous complementary benefits that cannot be adequately quantified in the CFI spreadsheet. The Heights South Regional Drainage Outfall is a large-scale improvement to fix a long history of regional flooding that cannot otherwise be addressed.

1. Reduced flooding west of Tampa Street – Capturing upstream runoff protects the downstream neighborhoods located west of Tampa Street from flooding and inundation of local roads.

2. Improved water quality – Minimizing roadway flooding prevents the inundation of the sanitary sewer systems located within all affected roadways and the comingling of sewer flows with surface runoff. This runoff currently drains to and adversely affects the River (FDEP WBID 1443E) and ultimately Hillsborough Bay (FDEP WBID 1558E).

3. Pedestrian Safety and Mobility – Tampa Street and Florida Avenue are both HART primary transit routes. Alleviating roadway flooding along both corridors will provide a safer environment where pedestrians, transit users and cyclists are not negatively impacted by standing water, flooded roads or related wheel splash.

4. Disaster Preparedness – Florida Avenue is HART Hurricane Evacuation Route C. It is imperative that this roadway function adequately during storm events.

5. Provides framework for reduced flooding east of Florida Avenue – Future extension of the storm sewer collection systems into the adjacent neighborhoods by the City can only occur if an adequate drainage outfall exists. Without a regional drainage improvement of this scale, these underserved communities will continue to flood as there is nowhere for the runoff to go.

Funding Source	Prior Funding	FY2022	FY2023	Future Funding	Total Funding
Applicant Share	0	305,199	13,220,818	0	13,526,017
District Share	0	305,199	13,220,818	0	13,526,017
Total	**0**	**610,398**	**26,441,636**	**0**	**27,052,034**

Matching Fund Reduction

☐ Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

Timelines

Begin concept development plans (30% Design)	1/1/22
Complete concept development plans (30% Design)	5/1/22
Permit submittals	5/1/22
RFP advertisement	5/1/22
Permit issued	8/1/22
RFP evaluation and award (letting)	2/1/23
Notice to proceed (NTP) to contractor	4/1/23
90% design/build plans	6/1/23

FY 2023 Cooperative Funding Initative Application Form

Matching Fund Reduction

☐ Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

Timelines

100% design/build plans	7/1/23
Commence construction	7/1/23
Commence construction	9/1/23
Construction complete	9/1/25

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

FY 2023 Cooperative Funding Initative Application Form

Project Name: Hillsborough County Countywide Watershed Model Migration and Integration

Project Number: Q226

Cooperator: Hillsborough County Public Works Dept.

Contact Person: Mikhal Moberg

Department:

Address: 601 E Kennedy Blvd 22nd Floor

Phone #: 8133071831

City State Zip: Tampa, FL 33602

Ext:

Email: mobergm@hillsboroughcounty.org

Project Type:

Flood Protection, Natural Systems, Water Quality

Strategic Initiatives:

Emergency Flood Response

Floodplain Management

Minimum Flows and Level Establishment and Monitoring

Minimum Flows and Levels Recovery

Water Quality Maintenance and Improvement

Project Description/Benefit/Cost

Description:

FY 22: Hillsborough County Watershed Integration – There are seventeen (17) watersheds within Hillsborough County jurisdiction with a total of 1,072 square miles which were originally subdivided based on SWFWMD one-foot contours back to 1980. The boundary overflow interaction due to mild slope of topography between watershed and watershed is currently simulated with inflow hydrographs at each location of watershed overflow location. This methodology of simulation neglects the dynamic reaction of stage variation between watershed boundaries which cannot appropriately reflect the floodplain elevation determination near the watershed boundaries. County proposes to integrate the seventeen (17) watersheds into three (3) major basins: 1. Alafia River Basin which consists of Alafia River, Delaney Creek, Little Manatee River, Bullfrog Creek, and Wolf Branch watersheds. 2. Hillsborough River Basin which consists of Hillsborough River, Tampa Bypass Canal, Pemberton Creek, Baker Canal, Cypress Creek, Curiosity Creek, Duck Pond, East Lake, and Silver Twin Lake watersheds. 3. Northwest 5 Basin which consists of Brooker Creek, Double Branch Creek, Lower Sweetwater Creek, Sweetwater Creek, Rocky Creek and Brushy Creek watersheds. Currently Hillsborough County utilizes an add-on tool to generate runoff. To avoid potential future reliance on code writing due to software updates the County would prefer to utilize the SWMM 5 modeling software independent of add-ons for runoff generation. The 3 major basin watershed models will be modeled using SWMM 5 modeling software where rainfall runoff will be approximated using SWMM 5 software to generate subbasin hydrographs. Infiltration and percolation will be represented within SWMM 5 for those areas with well drained soils. Once the 3 watersheds are created an interface will be developed to automatically establish model initial stages based on the applicable real time SCADA lake stage data. The results of these simulations will be utilized to create a dynamic stream/ lake warning system. The integration of seventeen (17) watersheds into 3 major basins will improve the accuracy of 100-year flood plain determination for better land development regulation by County and District and will be efficiently benefit to community coupled with dynamic stream/lake warning system during hurricane season through SCADA real time data collection system. This effort builds on the previous cooperatively funded (with SWFWMD) SCADA projects: Q001 and Q213.
A summary of the anticipated project tasks is provided below. Task/Description 1) Delineate major basins: Establish the 3 major basins from the component seventeen watersheds within Hillsborough County. 2) Reconcile legacy boundary conditions: Create a uniform model, void of the legacy boundary conditions which existed between the adjacent watersheds. 3) Calculate rainfall runoff generation with SWMM5 and Update major basin SWMM 5 hydrology: Utilize the SWMM 5 modeling software independent of add-ons for runoff generation; infiltration and percolation will be represented within SWMM 5 for those areas with well drained soils. Update SWMM5 sub basin hydrology within the major basin model and run model. 4) Model Calibration and Verification: Can directly utilize the rainfall data stored in external Rainfall Files with formats as stored NOAA's National Climatic Data Center (NCDC) Climate Data with SWMM5 runoff capability. 5) Major Basin Model/ Remote Lake Level Monitoring Integration: Create an automated construct where initial stages (from the lake level monitoring data) maybe readily populated into the major basin model. The major basin model would then run and the results would be utilized to create a dynamic stream/ lake warning system.

Benefit:

The boundary overflow interaction due to mild slope of topography between watershed and watershed is currently simulated with inflow hydrographs at each location of watershed overflow location. This methodology of simulation neglects the dynamic reaction of stages variation between watershed boundary which cannot appropriately reflect the flood plain elevation determination near the boundary. The low topographic variation and interconnectivity between adjacent watersheds provides differing peak stages for the 100yr-1day design storm event for adjacent subbasins within different watersheds (example: where Little Manatee River Watershed subbasin 945850 borders the Bullfrog Creek Watershed). This peak stage difference occurs due to the boundary conditions applied at the periphery of the model. Model integration would reconcile non-representative peak stage differences between adjacent subbasin in differing watersheds thus improving the accuracy of the 100yr-24hr floodplain delineation. Regulation of land development by Hillsborough County (development services) and SWFWMD maybe improved through more accurate and representative model results especially in those areas where significant development is ongoing. Providing model consolidation in conjunction with utilizing the data obtained through the SCADA real time data collection system would allow for the creation of a dynamic stream/ lake warning system that maybe continuously utilized to aid in stormwater decision making and public awareness. Utilization of uniform model software (SWMM 5) allows for future assessment of water quality and long term simulation using SWMM 5. Complete reliance on SWMM 5 would preclude future code writing assistance for runoff generation. The representation of percolation should improve the accuracy of the floodplain delineation for areas where significant percolation/infiltration occurs (well drained sandy soils and closed basins).

Cost:

The estimated cost is $2,000,000.

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

Water Conservation: Hillsborough County was the premier local government to decriminalize the violation of water use restrictions, and to adopt a civil citation process for the enforcement of the same in July 1993. A full-time Water Conservation Manager assures that the County stays abreast of conservation issues. This facilitates amendments to the County's Water Conservation Ordinance (HCO 03-07) as needed to quickly address changing conditions in the regulatory environment and as deemed appropriate by the County's administration. Flood Protection: The principal purpose of Hillsborough County's floodplain management program is to protect residents and business owners from flooding risks. Flooding disasters are the leading recurring hazard within the County and have the potential of affecting greater than one-quarter of the population at a value that is greater than five billion dollars in personal property. Construction standards and planning concepts are implemented through the County's Land Development Code. Floodplain Management Plan and Local Mitigation Strategy.

Funding Source	Prior Funding	FY2022	FY2023	Future Funding	Total Funding
Applicant Share	0	500,000	500,000	0	1,000,000
District Share	0	500,000	500,000	0	1,000,000
Total	**0**	**1,000,000**	**1,000,000**	**0**	**2,000,000**

Matching Fund Reduction

☐ Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

Timelines

Kick-off Meeting	10/30/21
Project Completion	1/1/25

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

FY 2023 Cooperative Funding Initative Application Form

Project Name: Hillsborough County Digital Flood Insurance Rate Map (DFIRM) Updates

Project Number: Q338

Cooperator: Hillsborough County Public Works Dept.

Contact Person: Mikhal Moberg

Department:

Address: 601 E Kennedy Blvd 22nd Floor

Phone #: 8133071831

City State Zip: Tampa, FL 33602

Ext:

Email: mobergm@hillsboroughcounty.org

Project Type:

Flood Protection

Strategic Initiatives:

Emergency Flood Response

Floodplain Management

Project Description/Benefit/Cost

Description:

The purpose of this project is to update the effective Flood Insurance Study (FIS) and associated Flood Insurance Rate Maps (FIRMs) for Hillsborough County. Updates to all 17 County Watershed Management Plans are expected to be completed by the end of 2021, with subsequent updates to their respective floodways completed by October 2022. This best-available watershed data will then be submitted to FEMA to update the FIS and applicable FIRMs for Hillsborough County, which had their last major update in 2008. It is anticipated that 163 FIRM panels will be revised as part of this update. The revised FIS and FIRMs will include changes to Special Flood Hazard Area (SFHA) delineations and associated Base Flood Elevations (BFEs). These revised map products, once effective, will serve as the basis for Hillsborough County's continued application and enforcement of all local floodplain management regulations required in conjunction with the participating criteria of the National Flood Insurance Program (NFIP).

Benefit:

The best available watershed data will be utilized to update the DFIRMs. These revised map products, once effective, will serve as the basis for Hillsborough County's continued application and enforcement of all local floodplain management regulations required in conjunction with the participating criteria of the National Flood Insurance Program (NFIP).

Cost:

The estimated cost is $750,000.

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

Water Conservation: Hillsborough County was the premier local government to decriminalize the violation of water use restrictions, and to adopt a civil citation process for the enforcement of the same in July 1993. A full-time Water Conservation Manager assures that the County stays abreast of conservation issues. This facilitates amendments to the County's Water Conservation Ordinance (HCO 03-07) as needed to quickly address changing conditions in the regulatory environment and as deemed appropriate by the County's administration. Flood Protection: The principal purpose of Hillsborough County's floodplain management program is to protect residents and business owners from flooding risks. Flooding disasters are the leading recurring hazard within the County and have the potential of affecting greater than one-quarter of the population at a value that is greater than five billion dollars in personal property. Construction standards and planning concepts are implemented through the County's Land Development Code. Floodplain Management Plan and Local Mitigation Strategy.

Funding Source	Prior Funding	FY2022	FY2023	Future Funding	Total Funding
Applicant Share	0	0	375,000	0	375,000
District Share	0	0	375,000	0	375,000
Total	**0**	**0**	**750,000**	**0**	**750,000**

Matching Fund Reduction

☐ Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

Timelines

Kick-off Meeting	10/30/22
Administration Briefing, Public Information	11/30/22
BOCC Approval, FEMA Map Update Application Submittal	1/30/23
FEMA Draft DFIRM (Work Maps)	6/30/23
County Reviews Draft DFIRM	7/30/23
Development of Outreach Plan and Strategy	7/30/23
FEMA Incorporates County Comments, Provides Public Notice and Releases Preliminary DFIRM	11/30/23
Post Preliminary DFIRM Outreach	1/30/24
FEMA Comment & Appeal Period	4/30/24
FEMA Finalizes Maps and Issues Letter of Final Determination	8/30/24
County Code Revisions	2/28/25
DFIRMs Become Effective	2/28/25
Owners Receive Notice from Lenders, County Conducts Post-DFIRM Outreach	6/30/25
Project Completion	1/1/26

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

FY 2023 Cooperative Funding Initative Application Form

Project Name: Hillsborough County Watershed BMP Alternatives Analysis

Project Number: Q337

Cooperator: Hillsborough County Public Works Dept.

Contact Person: Mikhal Moberg

Department:

Address: 601 E Kennedy Blvd 22nd Floor

Phone #: 8133071831

City State Zip: Tampa, FL 33602

Ext:

Email: mobergm@hillsboroughcounty.org

Project Type:

Flood Protection, Water Quality

Strategic Initiatives:

Emergency Flood Response

Floodplain Management

Water Quality Maintenance and Improvement

Project Description/Benefit/Cost

Description:

Hillsborough County has a robust tool in the existing watershed management plans (WMPs) that may be successfully utilized to identify additional potential flood protection and water quality improvement projects. Southwest Florida Water Management District and Hillsborough County Resources have been utilized to create these WMPs. The previously completed Hillsborough County WMPs contained anywhere between 4-31 potential project areas per watershed. These areas were generally identified by deficiencies in flood protection level of service (FPLOS). These areas represent a very small portion of the watershed and additional effort is required to ensure holistic flooding and project identification. Additionally, previous WMPs project identification has not focused on resiliency related to sea level rise, which is important for an Gulf of Mexico adjacent county such as Hillsborough County.

Hillsborough County seeks to provide a more comprehensive analysis inclusive of resiliency planning, water quality and flood protection where this is an extension of the legacy WMPs Best Management Practice (BMP) alternatives analysis. Consistent methodology across all watershed and a systematic approach to project identification.

Project aims to develop a holistic County-wide stormwater management plan to identify projects to provide water quality improvement and flood reduction. Hillsborough County aims to provide a model-based approach to aid in identification of flood protection and water quality Best Management Practices utilizing the Hydrologic & hydraulic models associated with their existing up-to-date stormwater master plans in conjunction with up-to-date land use and event mean concentration data. Historically budget limitations have reduced the County’s ability to comprehensively identify water quality and flood protection BMPs' throughout the County. In FY22, the County expects to fund identification/creation of approximately 50-100 BMPs ($5,000-$10,000/ BMP). The target for the entire project (FY22 – FY25) is to fund identification approximately 200-400 BMPs through FY25. Implementation of holistic detailed BMP identification may guide future allocation of resources and ultimately improve the environment and conditions for the residents within Hillsborough County.

Benefit:

Project would support key initiatives for Stormwater Planning Team, Environmental Management Division and Stormwater Investigation Team. Project would help identify areas that currently experience flooding and provide potential BMPs. Project may identify areas that may benefit from water quality BMPs. Implementation of future projects may provide flood protection and improved water quality.

Cost:

The total estimated project cost is $2,000,000 (inclusive of Hillsborough County Funds & SWFWMD funds).

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

Water Conservation: Hillsborough County was the premier local government to decriminalize the violation of water use restrictions, and to adopt a civil citation process for the enforcement of the same in July 1993. A full-time Water Conservation Manager assures that the County stays abreast of conservation issues. This facilitates amendments to the County's Water Conservation Ordinance (HCO 03-07) as needed to quickly address changing conditions in the regulatory environment and as deemed appropriate by the County's administration. Flood Protection: The principal purpose of Hillsborough County's floodplain management program is to protect residents and business owners from flooding risks. Flooding disasters are the leading recurring hazard within the County and have the potential of affecting greater than one-quarter of the population at a value that is greater than five billion dollars in personal property. Construction standards and planning concepts are implemented through the County's Land Development Code.

FY 2023 Cooperative Funding Initative Application Form

Floodplain Management Plan and Local Mitigation Strategy.

Funding Source	Prior Funding	FY2022	FY2023	Future Funding	Total Funding
Applicant Share	0	500,000	250,000	500,000	1,250,000
District Share	0	0	250,000	500,000	750,000
Total	**0**	**500,000**	**500,000**	**1,000,000**	**2,000,000**

Matching Fund Reduction

☐ Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

Timelines

Kick-off Meeting	10/30/22
BMP Analysis with Sea-Level Rise Scenarios	8/1/23
Flood Control BMP Alternatives Analysis	8/1/23
Water Quality BMP Alternatives Analysis	8/1/23
Project Completion	6/1/26

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

FY 2023 Cooperative Funding Initative Application Form

Project Name: Hudson Avenue Regional Flood Abatement Project (fka Club Wildwood)

Project Number: Q328

Cooperator: Pasco County

Contact Person: David Z. Sua

Department:

Address: 4454 Grand Boulevard

Phone #: 7278343611

City State Zip: New Port Richey, FL 34652

Ext: 1041

Email: dsua@pascocountyfl.net

Project Type:

Flood Protection, Water Quality

Strategic Initiatives:

Floodplain Management

Water Quality Maintenance and Improvement

Project Description/Benefit/Cost

Description:

The Hudson Avenue Regional Flood Abatement Project is intended to abate severe flooding at the intersection of Hudson Avenue and Fivay Road in Pasco County. Hudson Avenue is a major arterial/collector road that experiences significant recurring flooding at the referenced intersection annually during the wet season. The project will also create a new positive regional drainage outfall for parcels on the north side of Hudson Avenue east of the US Highway 19 intersection through a "jack & bore" culvert installation under US Highway 19 essentially opening the the hydrologic closed basin in this area. The new resulting positive discharge to tidal waters will function as a new intermediate system that will help abate internal flooding in a large adjacent residential community that experiences recurring annual flooding. The project will also provide for a new water quality system that is designed to reduce total Nitrogen and total Phosphorus prior to discharging to tidal waters of the Gulf of Mexico.

Benefit:

The project proposes Design Alternative 2 in the attached report, which has a calculated Benefit Cost Ratio (BCR) of 1.10. The BCR was computed using version 1.0 of the October 2020 Southwest Florida Water Management District Stormwater Improvement Flood Protection Benefit Cost Analysis Tool.

Cost:

Total project cost to implement Design Alternative 2 is estimated to be $1,950,314 which includes a possible land acquisition cost of $319,608 for detention pond construction and $132,770 for maintenance over the useful life of the project. Land may be given to the County for pond construction by owners of an adjacent residential developer that could benefit from project implementation.

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

Pasco County's reclaimed water system includes metering and incentive-based reuse rate structures for high volume water users and has pro-active reclaimed water expansion policies which maximize utilization, water resource benefits, and environmental benefits.
Since 2001, the Pasco County Board of County Commissioners (BCC) has maintained a once-a-week, residential, lawn-irrigation limitation. Highlights of Pasco County Ordinance No. 01-08 include the following:
1. One day-per-week irrigation limitation on potable water usage.
2. Curtailed use of potable water for irrigation when rain has occurred within 24 hours.
3. Twice-a-week limitation on reclaimed-water usage.
4. Washing of nonbusiness, personal vehicles only using low-volume methods and over pervious surfaces.
5. Prohibiting aesthetic uses of water unless such use also provides a necessary aeration or water-quality benefit.
6. Use of reclaimed water for road construction activities when available.

In 2020, Pasco County Utilities beneficially reused 100% of wastewater, resulting in zero surface water discharge. The bulk rate charged for the use of reclaimed water is $0.70 per 1,000 gallons for customers that have storage capability. All other bulk customers that feed directly off of the system will be charged $0.35 per thousand gallons used. Residential reclaimed water customers will notice a new base charge of $11 for reclaimed water, which includes the first 10,000 gallons, and then a tiered rate of $1.10 for every additional 1,000 gallons used.
To help residential reclaimed customers as well as potable customers conserve as much water as possible, Pasco County Utilities provides complimentary site visits, which include re-programming irrigation controllers, completing irrigation evaluations, and educating homeowners about how to efficiently operate their irrigation systems. Pasco County Utilities also provides conservation messaging to residential reclaimed customers through mass emails, newsletters, and social media.
Pasco County's potable water rates are applied in a water conservation inclining block rate.

FY 2023 Cooperative Funding Initative Application Form

Pasco County Ordinance No. 93-16 requires each new development to construct a reclaimed water distribution system as a condition of wastewater service when the development is within designated areas in the Pasco County Master Reuse System (PCMRS) and when providing the development with reclaimed water supply is determined to be in the best interest of the County.
Pasco County participates in the National Flood Insurance Program, administered through the Federal Emergency Management Agency (FEMA). All finished floor elevations are required to be above the 100-year flood elevation. These elevations are reviewed prior to construction and certified after construction.
Pasco County Land Development Code No. 403.6 Fill Ordinance requires permit applications and review for placement of fill greater than five cubic yards on properties.

Funding Source	Prior Funding	FY2022	FY2023	Future Funding	Total Funding
Applicant Share	0	0	106,996	868,161	975,157
District Share	0	0	106,996	868,161	975,157
Total	**0**	**0**	**213,992**	**1,736,322**	**1,950,314**

Matching Fund Reduction

☐ Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

Timelines

Real Estate Acquisition	6/1/23
Design & Permitting	2/26/24
Construction and Construction Engineering Inspections (CEI)	2/25/25
GIS Data, As-Built Survey, Record Drawings & Certificate of Substantial Completion	4/26/25
Bidding, Contractor Selection and Contract Award	10/23/25

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

FY 2023 Cooperative Funding Initative Application Form

Project Name: Indian Avenue LID Improvements

Project Number: Q349

Cooperator: Belleair Bluffs

Contact Person: Debra S. Sullivan, MMC

Department:

Address: 2747 Sunset Blvd.

Phone #: 7275842151

City State Zip: Belleair Bluffs, FL 33770

Ext:

Email: dsullivan@belleairbluffs-fl.gov

Project Type:

Flood Protection, Water Quality

Strategic Initiatives:

Floodplain Management

Water Quality Maintenance and Improvement

Project Description/Benefit/Cost

Description:

Identified as Basin E4180 within the McKay Creek Watershed Management Plan, the Indian Avenue and Jewel Court basin has a variety of land uses with the (approximate) 10 acre basin. Multi-family and single family housing is the predominant land use while an array of diverse commercial developments are located along the basin's western boundary. The project area is located within the upstream reaches of McKay Creek (WBID 1633B) which has historically been classified as an impaired water body. Additionally, the project area discharges to a location immediately upstream of the McKay Creek Tidal Segment (WBID 1633) which shares a similar impairment history. Generally speaking, runoff within this basin flows in a southeasterly direction. For purposes of evaluation, the basin was subdivided in the Jewel Court subbasin and the Indian Avenue subbasin. Jewel Court is curbed roadway with no drainage facilities. Runoff from the surrounding commercial and multi-family land uses are routed via sheet flow through the roadway's curbing south to Indian Avenue. Once these flows reach Indian Avenue, flow continues to the east and comingles within runoff from the northern portion of the Indian Avenue subbasin. Flows eventually pool at the northwest corner of the Indian Avenue / Overbrook Street West intersection which is a depressional area with no positive outlet. To remove pooled water from this depression, the City constructed a bubbler system years prior in an effort to improve conditions. However, the current stormwater infrastructure on the site does not meet the City's level of service goals as it pertains to water quality and roadway safety. With no stormwater infrastructure in the immediate area, the City is proposing to repurpose a landscaped median and utilize this area for stormwater retention and attenuation. Expanding the footprint of the center median would be done in conjunction with terrain modifications to route runoff to this stormwater management facility. Runoff from Jewel Court would be collected via stormwater collection structure. Prior to discharge of these flows into the stormwater management facility, pre-treatment would be provided through the use of a water quality improvement structure (specifically a baffle box). The stormwater management facility has been designed to retain 1/2" of runoff over the entire basin which replicates the treatment requirements for new development within the area. Excess flows would be routed through a control structure and discharged via a bubbler system at the southwest corner of the Indian Avenue / Overbrook Street West intersection.

Benefit:

The City is aware that implementation of BMPs is vital to improving water quality within the McKay Creek watershed. For this reason, the City felt it would be prudent to utilize LID techniques to address the current challenges at the site. The retention of runoff is effective in removing nutrients (TN & TP) and small sediment from the flow stream. Skimmers, proposed at the control structure(s), are successful in removing greases and oils from the flow stream as well. The SWFWMD's Strategic Plan identifies protection and improvements of water quality as a core mission of the District. Further, with the Tampa Bay Regional Priorities to improve water bodies, this project directly assists the District in meeting its objectives. The water quality benefit for this project is as follows: 62.52 lbs. / year of TN Removed; 9.15 lbs. / year of TP Removed. Please see the attached water quality calculations to view the method of nutrient removal calculations.

Cost:

The cost benefit for this project is as follows: TP Removal @ $3,233.94/lb.; TN Removal @ $473.30/lb. These cost calculations assumed a loading duration of 20 years.

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

The City has taken multiple complementary efforts to reinforce their commitment to improving water quality. These are as follows: 1.) The City is actively involved with maintaining clean water through yearly NPDES evaluations. The City closely monitors and inspects their stormwater system to ensure that illicit discharges are not occurring and to minimize the likelihood of infrastructure failure resulting in sediment loading to the Pinellas County Aquatic Preserve and McKay Creek. 2.) Prior stormwater retrofit and improvement projects have incorporated an element of water quality improvement. This has been done on recent project even when funding was not received. 3.) The City supports Pinellas County's fertilizer ordinance. 4.) Chapter 106 of the City's code outlines the City's Anti-Litter Ordinance (applicable to both public and private property). 5.) The City installs and maintains drain label markers as part of their public outreach efforts.

Funding Source	Prior Funding	FY2022	FY2023	Future Funding	Total Funding
Applicant Share	0	0	295,907	0	295,907
District Share	0	0	295,906	0	295,906
Total	**0**	**0**	**591,813**	**0**	**591,813**

Matching Fund Reduction

☐ Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

Timelines

Design	10/31/22
Permitting	1/31/23
Project Advertisement & Award	3/31/23
Construction	11/27/23
As-Built Survey & Record Drawings	12/31/23
Project Close-out	1/31/24

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

FY 2023 Cooperative Funding Initative Application Form

Project Name: Key Vista Shoreline Stabilization Project

Project Number: Q350

Cooperator: Pasco County

Contact Person: Curtis Franklin

Department:

Address: 7750 Congress St

Phone #: 7278472411

City State Zip: New Port Richey, FL 34653

Ext: 1105

Email: cfranklin@pascocountyfl.net

Project Type:

Natural Systems

Strategic Initiatives:

Natural Systems Conservation and Restoration

Project Description/Benefit/Cost

Description:

The project is located along the north shoreline of the Key Vista Nature Park, 101 acre environmental park located in Holiday, Pasco County, at the mouth of Rocky Creek and along the Gulf of Mexico. The park lands were acquired as part of the Florida environmental lands acquisition program. It is owned by the Florida Department of Environmental Protection's (FDEP) Board of Trustees of the Internal Improvement Trust Fund of the State of Florida (TIITF) and is managed by Pasco County under a long-term lease. Key Vista Nature Park provides the public with passive recreational opportunities, hiking trails with access to a variety of freshwater and saltwater habitat types, and wildlife and bird watching opportunities.
The Key Vista Park shoreline fronting Rocky Creek is experiencing significant erosion. The erosion has caused 3- to 4-foot-high vertical bank scarping in some places. The shoreline erosion is also threatening park uplands and trees, makes water access difficult and poses a risk to park users. Much of the erosion has occurred in areas where there is no existing shoreline protection or vegetation no longer exists.
The Pasco County Parks, Recreation and Natural Resources Department intends to conduct infrastructure improvements to benefit the ecological resources of the park as shoreline conditions have deteriorated along Rocky Creek and sediments have washed into the creek. The shoreline along Rocky Creek is generally sandy and vegetated in places with mangroves and coastal fringe species. Shoreline erosion and near-vertical escarpments were observed at several locations along Rocky Creek. These erosion areas are generally located in open, unvegetated areas. Several areas have scattered limestone riprap shoreline erosion protection, but there are gaps in coverage. There are seven main areas of concern totaling approximately 405 linear feet of shoreline. The proposed improvements will include bank stabilization in the form of a living shoreline.

Benefit:

The approach to bank stabilization is to use living shorelines. This method of shoreline stabilization has been in use for decades in southwest Florida; however, it has recently experienced a growth in popularity. In contrast to hard shoreline protection, such as bulkheads and seawalls, living shorelines provide bank stabilization while enhancing habitat values and provide water quality benefits. Living shorelines are also considered to be more aesthetically pleasing, are easy to install and maintain, and generally cost less than the traditional hardened shoreline erosion control methods. However, other bank erosion aeras along the narrower portion of the creek and behind existing mangroves might need a more traditional rock riprap that can retain steeper banks. A combination of shoreline stabilization techniques may be required in some areas.
The concept of the living shoreline is to provide a wave energy reduction structure (such as oyster bags or coconut coir logs) on the waterward side while filling and planting the area on the landward side of the structure. For this application, oyster bags were selected over coir logs for their durability. Using in-field adjustments, the existing, scattered limestone boulders along the creek may be opportunistically incorporated into the living shoreline design.

Cost:

The cost for the living shoreline installation is estimated to be approximately $100,000 for 405 feet of shoreline restoration. This equates to approximately $247 per foot.

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

The project is located along the north shoreline of the Key Vista Nature Park in Holiday, Florida. The park lands were acquired as part of the Florida environmental lands acquisition program. It is owned by the Florida Department of Environmental Protection's (FDEP) Board of Trustees of the Internal Improvement Trust Fund of the State of Florida (TIITF) and is managed by Pasco County. Key Vista Nature Park provides the public with passive recreational opportunities, hiking trails with access to a variety of habitat types, and wildlife and bird watching opportunities.

FY 2023 Cooperative Funding Initative Application Form

Pasco County is presently in the design phase of the project with plans nearing the 30% stage. ERP preapplication meetings will be scheduled before the end of the calendar year. Seagrass surveys have been completed, wetland lines have already been set and a hydrographic survey has been completed.
Pasco County is also pursuing a number of other projects across the county that align with the District's areas of responsibility including flood protection, water quality improvements, natural systems benefits and protection of water supply. This project is aimed at natural systems benefits with ancillary water quality improvements. Other projects include watershed management plans, which focus on flood protection, water quality improvements and natural systems benefits, and numerous flood abatement projects. In addition, Pasco County's Community Rating System (CRS) Class is 6.

Funding Source	Prior Funding	FY2022	FY2023	Future Funding	Total Funding
Applicant Share	0	25,000	25,000	0	50,000
District Share	0	25,000	25,000	0	50,000
Total	**0**	**50,000**	**50,000**	**0**	**100,000**

Matching Fund Reduction

☐ Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

Timelines

Construction complete	12/12/23

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

FY 2023 Cooperative Funding Initative Application Form

Project Name: Lower Peninsula Stormwater Improvements - Southeast Region

Project Number: Q190

Cooperator: City of Tampa

Contact Person: Ben Allushuski, P.E., CFM

Department:

Address: 306 E. Jackson St 6N

Phone #: 8132743257

City State Zip: Tampa, FL 33602

Ext:

Email: Ben.Allushuski@tampagov.net

Project Type:

Flood Protection, Water Quality

Strategic Initiatives:

Emergency Flood Response

Floodplain Management

Water Quality Maintenance and Improvement

Project Description/Benefit/Cost

Description:

Construction of regional stormwater improvements to serve an area of approximately 550 acres in the Lower Peninsula watershed of the City of Tampa. This project is one of seven Capital Improvement Projects identified in the Alternatives Analysis of the previously co-funded Lower Peninsula WMP (N710). This project consists of design and construction of a major stormwater conveyance system for flood protection and an environmentally sensitive pond for water quality treatment in addition to a new outfall to the Hillsborough Bay. Funding was approved in FY2022 for completion of design and to begin construction. The FY2023 funding request is for construction. The City of Tampa is currently coordinating this project with the Florida Communities Trust (FCT) regarding the use of the MacDill 48 property. The City of Tampa expects to submit an updated Benefit-Cost Analysis along with updated project cost information and water quality benefit calculations to District staff by December of 2021.

Benefit:

The contractual Measurable Benefit will be the construction of drainage conveyance system BMPs to reduce flooding and improve water quality in approximately 550 acres of highly-urbanized basin. Construction will be in accordance with the permitted plans. The Resource Benefit of this project will reduce the existing flooding problem up to the 25-year, 24-hour storm event and remove approximately 622 lbs/year TN, and 178 lbs/year TP within the basin. Severe flooding occurs in the project area along major thoroughfares, evacuation routes, and in residential areas and the project impacts the regional or intermediate drainage system. A Benefit-Cost Analysis was performed for this project using SWFWMD's spreadsheet tool. The benefit/cost ratio of this project is 0.86 based on a total project cost of $25,000,000.00.

Cost:

Total project cost: $25,000,000 (design, third party review, permitting and construction). City of Tampa: $12,500,000. District: $12,500,000 with $6,035,000 approved in previous years, $3,232,500 requested in FY2023 for construction, and $3,232,500 anticipated to be requested in future years.

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

The City of Tampa is a CRS Class 5 community. The City of Tampa also has the following codes in place relating to water conservation: 1) Standard Plumbing Code (Ord. No. 92-67,2,5-7-92; Ord. No. 96-64,62, 3-14-96; Ord. No. 98-40,19 2-26-98), 2) Water Use Restrictions Code (Ord. No. 2003-316; Ord. No. 2000-69, 97, 3-16-00; Ord. No. 2000-43,97,9-14-00; Ord. No. 2001-87,97,3-29-01), 3) Increase in Water Restriction Violation Fines (Ord. No. 2001-19,23,1-4-1), 4) Landscaping Code (Ord. No. 97-34,2,2-6-97), 5) Rain Sensor Requirement (part of Plumbing Code, Ord. No 98-40,19,2-26-98), 6) Schedule of Water Rates (Ord. No. 2001-0987,26-31,8-30-01). The city has adopted a Flood Damage Control Ordinance (Ord. No. 92-67, 2, 5-7-92, ord. No 92-134, 3, 4, 81-3-92; Ord. No. 96-64, 73-75, 3-14-96) as required to participate in the National Flood Insurance Program administered through FEMA. The City of Tampa also has a Stormwater Assessment Program that includes a Service Assessment and an Improvement Assessment. The Service Assessment has been in existence since 2003 as described in Resolution 2003-937. The Improvement Assessment was adopted in 2016 as described in Resolution 2016-706. The Service Assessment is an annual non-ad valorem assessment that pays for
operations and maintenance of the existing stormwater system. Services include street sweeping, pond maintenance, pipeline system cleaning, outfall cleaning, ditch maintenance and miscellaneous micro-projects ancillary to maintenance activities. The Improvement Assessment is an annual non-ad valorem assessment that pays for capital improvements associated with the stormwater system in the City of Tampa. Improvements include system capacity increases, treatment facilities such as ponds,

ditches and baffle boxes, new pipelines and box culverts, pump stations, backflow valves, inlets, curb and gutter systems, as well as roadway regrading to improve flow patterns.

Funding Source	Prior Funding	FY2022	FY2023	Future Funding	Total Funding
Applicant Share	35,000	6,000,000	3,232,500	3,232,500	12,500,000
District Share	35,000	6,000,000	3,232,500	3,232,500	12,500,000
Total	**70,000**	**12,000,000**	**6,465,000**	**6,465,000**	**25,000,000**

Matching Fund Reduction

☐ Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

Timelines

Design	11/8/21
Third-Party Review	3/1/22
Begin Construction	4/1/22
End Construction	12/31/24

FY 2023 Cooperative Funding Initative Application Form

Project Name: Magnolia Valley Storage and Wetland Enhancement

Project Number: N865

Cooperator: Pasco County

Contact Person: David Z. Sua

Department:

Address: 4454 Grand Boulevard

Phone #: 7278343611

City State Zip: New Port Richey, FL 34652

Ext: 1041

Email: dsua@pascocountyfl.net

Project Type:

Flood Protection, Water Quality

Strategic Initiatives:

Floodplain Management

Water Quality Maintenance and Improvement

Project Description/Benefit/Cost

Description:

This phase of the Magnolia Valley Storage and Wetland Enhancement Project follows a successful Third Party Review of the 30% design. This phase is specifically for the final design through bid set and permitting as well as for project Contractor Selection and Contract Award Bidding, Contractor Selection and Contract Award, Construction and Construction Engineering Inspections (CEI), GIS Data, As-Built Survey, Record Drawings & Certificate of Substantial Completion.

Benefit:

The project has a calculated Benefit Cost Ratio of 0.76, which was computed using version 1.0 of the October 2020 Southwest Florida Water Management District Stormwater Improvement Flood Protection Benefit Cost Analysis Tool. The project will reduce structural and residential flooding in the Magnolia Valley Community.

Cost:

Total project cost is $8,976,900.

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

Pasco County's reclaimed water system includes metering and incentive-based reuse rate structures for high volume water users and has pro-active reclaimed water expansion policies which maximize utilization, water resource benefits, and environmental benefits.
Since 2001, the Pasco County Board of County Commissioners (BCC) has maintained a once-a-week, residential, lawn-irrigation limitation. Highlights of Pasco County Ordinance No. 01-08 include the following:
1. One day-per-week irrigation limitation on potable water usage.
2. Curtailed use of potable water for irrigation when rain has occurred within 24 hours.
3. Twice-a-week limitation on reclaimed-water usage.
4. Washing of nonbusiness, personal vehicles only using low-volume methods and over pervious surfaces.
5. Prohibiting aesthetic uses of water unless such use also provides a necessary aeration or water-quality benefit.
6. Use of reclaimed water for road construction activities when available.

In 2020, Pasco County Utilities beneficially reused 100% of wastewater, resulting in zero surface water discharge. The bulk rate charged for the use of reclaimed water is $0.70 per 1,000 gallons for customers that have storage capability. All other bulk customers that feed directly off of the system will be charged $0.35 per thousand gallons used. Residential reclaimed water customers will notice a new base charge of $11 for reclaimed water, which includes the first 10,000 gallons, and then a tiered rate of $1.10 for every additional 1,000 gallons used.
To help residential reclaimed customers as well as potable customers conserve as much water as possible, Pasco County Utilities provides complimentary site visits, which include re-programming irrigation controllers, completing irrigation evaluations, and educating homeowners about how to efficiently operate their irrigation systems. Pasco County Utilities also provides conservation messaging to residential reclaimed customers through mass emails, newsletters, and social media.
Pasco County's potable water rates are applied in a water conservation inclining block rate.
Pasco County Ordinance No. 93-16 requires each new development to construct a reclaimed water distribution system as a condition of wastewater service when the development is within designated areas in the Pasco County Master Reuse System (PCMRS) and when providing the development with reclaimed water supply is determined to be in the best interest of the County.
Pasco County participates in the National Flood Insurance Program, administered through the Federal Emergency Management Agency (FEMA). All finished floor elevations are required to be above the 100-year flood elevation. These elevations are reviewed prior to construction and certified after construction.

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

FY 2023 Cooperative Funding Initative Application Form

Pasco County Land Development Code No. 403.6 Fill Ordinance requires permit applications and review for placement of fill greater than five cubic yards on properties.
construction. Fill Ordinance, adopted in March 2005, requires permit applications and review for placement of fill greater than 5 CY on properties.

Funding Source	Prior Funding	FY2022	FY2023	Future Funding	Total Funding
Applicant Share	417,500	314,388	3,731,563	24,999	4,488,450
District Share	417,500	314,388	3,731,563	24,999	4,488,450
Total	**835,000**	**628,776**	**7,463,126**	**49,998**	**8,976,900**

Matching Fund Reduction

☐ Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

Timelines

Final Design & Permitting Through Bid Set	7/27/22
Bidding, Contractor Selection and Contract Award	7/2/23
Construction, Construction Engineering & Inspection (CEI)	12/1/24
GIS Data, As-Built Survey, Record Drawings & Certificate of Substantial Completion	3/1/25

FY 2023 Cooperative Funding Initative Application Form

Project Name: McIntosh Park Integrated Water Management Plan

Project Number: Q125

Cooperator: Plant City

Contact Person: Lynn Spivey

Department:

Address: 1500 Victoria Street

Phone #: 8637579190

City State Zip: Plant City, Fl 33563

Ext:

Email: lspivey@plantcitygov.com

Project Type:

Flood Protection, Natural Systems, Water Quality

Strategic Initiatives:

Floodplain Management

Natural Systems Conservation and Restoration

Water Quality Maintenance and Improvement

Project Description/Benefit/Cost

Description:

McIntosh project uses an integrated approach to water management that produces multifaceted environmental benefits through expansion upon the original project through development of an additional 172 acres of multi-purpose constructed treatment wetlands. To address the dehydration experienced by the original wetland and increase treatment, this project reconfigures the original wetland cells and adds additional treatment wetlands in the center and western portion of the park, and includes the addition of highly treated reclaimed water for hydration of the wetland species. The eastern cells that are directly connected to the East Canal do not receive reclaimed water, rather they continue to derive hydroperiods solely from surface water. The new wetlands cells receive supplemental, make-up water from Plant City's reclaimed system during dry periods. Plant City currently sends excess reclaimed water to the East Canal downstream (north of McIntosh Preserve) off Knights Griffin Road under a Florida Department of Environmental Protection Agency National Pollutant Discharge Elimination System (NPDES) permit, FL0026557 from the City's Water Reclamation Facility (WRF). The reclaimed water flows from the East Canal to the Itchepackasassa Creek and eventually to the Hillsborough River. During a recent WRF permit renewal, the City developed a Water Quality Based Effluent Limitation (WQBEL) study that noted the importance of the reclaimed water sent to the East Canal receiving water, and indicated the reclaimed water comprises most of the base flow during the dry season. The addition of a proposed 1.5 MGD of high-quality reclaimed water to the wetland systems beneficially reuses advanced treated water and supports wildlife habitat through proper maintenance of hydroperiod and reduces the direct discharge to the East Canal.
McIntosh Preserve wetlands expansion and the hydrological improvements proposed increase in the stormwater system capacity to reduce localized flooding conditions. The site continues to accept off-site stormwater and improvements in the southern portion of the project increase the effciency of the conveyance of water, reducing the duration of localized flooding. The expansion of wetlands and backflow preventer in the northeastern corner of the property will reduce off-site flooding and lessen the duration of and extent of standing water. The expanded wetland treatment decreases nutrient loading to East Canal, above and beyond the original project, with a net improvement of 7,620 pounds a year of Total Nitrogen (TN) and 2,280 pounds of Total Phosphorus (TP).

Benefit:

This project resides within the Dover/SWUCA and beneficially reuses 1.5 MGD of AWT reclaimed water, project improves an existing water quality improvement project and increases the volume of water treated reducing nutrient loading and improving water quality in the downstream receiving waterbody the Hillsborough River, improves localized flooding through floodplain management.

Cost:

$11,097,262.00

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

Plant City has adopted the SWFWMD watering restrictions within the City. The City has also adopted a tiered rate structure to discourage overuse of potable water. Other complimentary efforts include the funding of the McIntosh Park Feasibility study for $250,000 with no cost share dollars. The City has also invested $3oo,ooo to expand public access to McIntosh Park.

Funding Source	Prior Funding	FY2022	FY2023	Future Funding	Total Funding
Applicant Share	337,175	0	5,548,631	0	5,885,806
District Share	337,175	0	5,548,631	0	5,885,806
Total	**674,350**	**0**	**11,097,262**	**0**	**11,771,612**

Matching Fund Reduction

☐ Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

Timelines

Peer Review	10/30/21
Final Design	12/30/22
Construction	7/15/24

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

FY 2023 Cooperative Funding Initative Application Form

Project Name: McKay Creek Operable Lake Controls Feasibility Study

Project Number: Q336

Cooperator: Pinellas County

Contact Person: Anita Wang

Department:

Address: 14 S. Ft. Harrison Ave.

Phone #: 7274648934

City State Zip: Clearwater, FL 33756

Ext:

Email: awang@pinellascounty.org

Project Type:

Flood Protection, Natural Systems, Water Quality

Strategic Initiatives:

Floodplain Management

Minimum Flows and Level Establishment and Monitoring

Water Quality Maintenance and Improvement

Project Description/Benefit/Cost

Description:

The McKay Creek Operable Lake Controls projects are the first two BMP's recommended in the 2014 WMP for McKay Creek Basin (8.1.1 and 8.1.2). A modeling technical memo (completed March 2020) analyzed the effect of lowering the levels of Taylor Lake and Walsingham Reservoir, in order to provide flood storage ahead of large storm events. The results of the H&H modeling show a great deal of regional flood protection benefits that can be expected from this approach (about 370 homes to be removed from floodplain). This PER study intends to better prepare for the final design /construction phase by providing more detailed evaluations of the following:
Potential environmental impacts (long term and short term, and if predicted storm event's path/schedules change from prediction); SCADA design details (onsite and remote) with comparison to manual-operation approach; Safety Evaluations; Operational Guidelines (for Internal staff and with external local agencies like Emergency Management Dept.); preliminary Geotech / Survey / Utility SUE research; and more detailed construction cost estimates, using updated unit costs and appropriate market escalation rate. The study will also explore opportunities to implement elements of water quality improvements and natural system enhancement in Taylor Lake and Walsingham Reservoir.

Benefit:

The McKay Creek Operable Lake Control Project is anticipated to take about 370 homes out of floodplain, with regional flood protection cost-benefit ratio significantly above the High Ranking matrix (over or equal to 1), regarding cost effectiveness of flood protection BMP projects. Besides the benefit of cost-effectiveness, this regional drainage improvement project is very minimal in terms of intrusiveness to the residents and current infrastructures, by utilizing and maximizing existing storage volumes available within Taylor Lake and Walsingham Reservoir. This regional project will significantly improve flood protection level of service in the McKay Creek Basin, with secondary elements of water quality improvements and natural system enhancement as our goal.

Cost:

FY23 PER budget $200k (SWFWMD 100k / County 100k)

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

The Pinellas County has a CRS rating of Class 5 by FEMA since 2016. The Pinellas County Comprehensive Plan obligates the County to protect, enhance, and improve water quality through water quality monitoring, watershed management plan development, implementation of projects, and environmental enforcement. In addition, the County is obligated by the Comprehensive Plan to work to improve flood protection and natural systems. The County has a fertilizer ordinance which restricts using products containing nitrogen or phosphorus during rainy season, which includes a related public outreach & education program. In addition, many of our County vehicles are wrapped with Stormwater education messages. Furthermore, professional landscape maintenance companies are required to take a MP training certification course.

Funding Source	Prior Funding	FY2022	FY2023	Future Funding	Total Funding
Applicant Share	0	0	100,000	0	100,000
District Share	0	0	100,000	0	100,000
Total	**0**	**0**	**200,000**	**0**	**200,000**

Matching Fund Reduction

☐ Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

Timelines

PER Study Initiation	10/1/22
PER Study Completion	12/31/23

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

FY 2023 Cooperative Funding Initative Application Form

Project Name: Pinellas County Surface Water Augmentation Feasibility Study

Project Number: Q353

Cooperator: Pinellas County Utilities

Contact Person: Joel Brown

Department:

Address: 6730 142nd Ave

Phone #: 8133635758

City State Zip: Largo, FL 33771

Ext:

Email: jobrown@pinellascounty.org

Project Type:

Water Supply

Strategic Initiatives:

Alternative Water Supply

Reclaimed Water

Project Description/Benefit/Cost

Description:

Currently the County is wrapping up an evaluation of the presence and extent of impaired surface water bodies within the proximity of the SCBAWRF, and whether augmentation with reclaimed water may be able to help address the impairment. A final report deliverable will outline up to 5 options for non-beneficial discharge elimination will be complete in October 2021.

The County would like to conduct a study on these options that will provide important information related to the feasibility, capacity, costs, and benefits of eliminating non-beneficial surface water discharge of effluent from the South Cross Bayou Water Reclamation Facility (SCBAWRF) by direct potable reuse (i.e., no environmental buffer) and indirect potable reuse (i.e., surface water augmentation), not only relative to each other, but also relative to additional alternative effluent management strategies, including continued surface water discharge to the extent that environmental benefits are realized, non-potable reuse, deep well injection, aquifer recharge, and aquifer storage and recovery.

Benefit:

This project has the potential to beneficially reuse up to 9mgd annual daily average of effluent flows from the South Cross Bayou Reclamation Facility.

In order to be in legal compliance with Senate Bill 64 of the 2021 Florida Legislative session, Pinellas County will be required to eliminate non-beneficial discharge of effluent flows from all wastewater treatment plants.

Cost:

The expected cost of the feasibility study and preliminary design work is $400,000.

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

The County promotes environmental awareness through progressive, industry-leading water conservation initiatives that provide for the protection and preservation of our water resources by enacting ordinances and supplying residential and business water conservation guidelines. The County also uses several approaches to protect its natural floodplain areas and water resources through various management plans, strategies, and monitoring programs.

Funding Source	Prior Funding	FY2022	FY2023	Future Funding	Total Funding
Applicant Share	99,524	0	200,000	0	299,524
District Share	0	0	200,000	0	200,000
Total	**99,524**	**0**	**400,000**	**0**	**499,524**

Matching Fund Reduction

☐ Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

Timelines

Feasibility Study	9/29/23

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

FY 2023 Cooperative Funding Initative Application Form

Project Name: Q220 7th Street North, 50th Avenue North and Vicinity Storm Drainage Improvements

Project Number: Q220

Cooperator: City of St. Petersburg

Contact Person: Daniel G Saunders

Department:

Address: 1- 4th Street North

Phone #: 7278937854

City State Zip: St. Petersburg, FL 33701

Ext:

Email: dan.saunders@stpete.org

Project Type:

Flood Protection

Strategic Initiatives:

Emergency Flood Response

Project Description/Benefit/Cost

Description:

This project is to implement the construction of stormwater improvements for the multi zoned neighborhood, including the Acadia Gardens Neighborhood west of 4th Street North (SR 687) between 50th Avenue North and the 54th Avenue North canal. The project will provide for drainage improvements that will alleviate flooding on 7th Street North between 50th Avenue North and 53rd Terrace North and also on 50th Avenue North between 4th Street North and 7th Street North. The existing stormwater system is undersized and is affected by tidal tailwater conditions resulting in frequent flooding within the neighborhood. The north end of 7th Street and the entrance to the Bay Breeze Cove Townhouses is especially subject to flooding that impacts the vehicular access. In the case of Bay Breeze Cove, a moderate summer storm causes flooding that blocks ingress egress to 171 residences. The proposed drainage Improvements include low impact development (LID) and increased conveyance capacity via enlarged conduits.

Benefit:

St. Petersburg’s low-lying terrain combined with high intensity, short duration storm events overloads the City’s existing drainage system. This causes street flooding resulting in residents suffering inconvenience and, in some cases property damage. Some finished floors along the subject streets are subject to flooding for higher level storms.   The new conveyance system will meet the City’s level of service (LOS) goal for a 10 year -1 hour storm event and will reduce the peak stages during the 100 year - 24 hour event.

Cost:

The City of St. Petersburg has retained a consulting engineer to perform the final design of the project for approximately $600,000. This project application to the District provides only for the construction phase. The engineer’s estimate of the construction cost and property acquisition cost is $5,357,000 to be shared with the District. The construction phase services by consulting engineers for shop drawing review and construction administration is estimated to cost $100,000. The total construction phase cost that is estimated to be reimbursable is $5,457,000 to be shared equally as $2,728,500 each between the District and the City of St. Petersburg.

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

The City is a premier local government engaging in multiple water conservation efforts that engage the public. The City participates in and offers numerous programs including the Sensible Sprinkling Program, Toilet Rebate Programs, Indoor Water Conservation Kits, Restaurant Spray Valve Replacement Programs for Service Providers, Water Conservation Publications, Indoor Water Conservation Kits, and Public Presentations and Workshops. The City is authorized through its MS4 permit and/or local ordinances to maintain, construct, reconstruct, improve and extend stormwater systems and to establish just and equitable stormwater utility rates, fees and charges for the services and facilities provided by the system. The utility fee is applied to each developed parcel in the City.

The City has been supportive of neighborhood and community volunteer opportunities that help to implement the Drainage and Surface Water Management Ordinance. The Friends of Crescent Lake is a visible example of a voluntary effort on the part of the City and community to improve the lake's water quality and shoreline environment, while providing an aesthetic value and improvement to the quality of life within the community.   Monthly vegetation management and water quality sampling efforts have provided opportunities for environmental education and community service for high school and university students. Significantly, the volunteer efforts in aquatic plant control and habitat creation have reduced the operational maintenance effort needed by the City Stormwater Department.

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

FY 2023 Cooperative Funding Initative Application Form

The City of St Petersburg participates in the National Flood Insurance Program (NFIP) and the Community Rating System (CRS). The CRS program gives incentives to go above and beyond the minimum NFIP requirements by rewarding the City with a flood insurance premium discount. Currently the City is a Class 6 community, and this provides a 20% discount to all flood insurance premiums for people within the Special Flood Hazard Area (SFHA). The City has implemented further goals to lower this score to a Class 5, with an effective discount of 25%. These goals have involved a Program for Public Information, higher level of flood protection, analysis of flood problem areas, and collaboration with Pinellas County Government to enhance the Watershed Management Plan. The current Floodplain Ordinance #191-H establishes minimum floodplain requirements for all buildings being constructed or improved within the SFHA.

The City Administration has been proactive in the development of ordinances vital to achieving the desired objective of the management of water resources and flood protection. Ordinance No. 2017-F and 147-G regulates the control and management of drainage and surface waters in harmony with the City Comprehensive Plan and SWFWMD regulations. Building developments are regulated in terms of the quantity and quality of stormwater runoff. Water pollution protection is provided by Ordinance Section 27-430 – Section 27-433, which identify unlawful discharges into the public drainage system and provides for prosecution of violators.

The design of the referenced drainage project is being performed by a capable consulting engineer and is being funded by the City of St. Petersburg for a cost of approximately $600,000.

Funding Source	Prior Funding	FY2022	FY2023	Future Funding	Total Funding
Applicant Share	0	1,200,000	1,228,500	0	2,428,500
District Share	0	1,500,000	1,228,500	0	2,728,500
Property	0	300,000	0	0	300,000
Total	**0**	**3,000,000**	**2,457,000**	**0**	**5,457,000**

Matching Fund Reduction

☐ Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

Timelines

Complete CFI Agreement for Construction	11/12/21
CMAR negotiation phase complete	3/29/22
Begin Construction	8/23/22
Complete Construction	11/24/23

FY 2023 Cooperative Funding Initative Application Form

Project Name: Restoration - Weedon Island Tidal Marsh

Project Number: W211

Cooperator: Pinellas County

Contact Person: Emily Magyar

Department:

Address: 12520 Ulmerton Road

Phone #: 7275822866

City State Zip: Largo, FL 33774

Ext:

Email: emmagyar@pinellascounty.org

Project Type:

Natural Systems

Strategic Initiatives:

Natural Systems Conservation and Restoration

Project Description/Benefit/Cost

Description:

The Weedon Island Tidal Wetland Enhancement is a proposed cooperative funding initiative project between Pinellas County and the Southwest Florida Water Management District (SWFWMD). Located within Pinellas County, the Weedon Island Preserve (Preserve) is an approximately 3,190-acre site with more than five miles of frontage to Tampa Bay, a SWFWMD Surface Water Improvement and Management (SWIM) Program priority water-body. The preserve consists primarily of estuarine habitats with some supporting uplands and is a sanctuary for many species of fish, birds, and small mammals. Intensive mosquito ditching has resulted in a loss of wetland area, altered local hydrology, and provided opportunities for establishment of invasive species. A feasibility study was conducted in 2018, under SWFWMD Project W217, to evaluate potential opportunities for habitat enhancement projects throughout a 1,100-acre portion of the Preserve. Enhancement projects fell under three categories: spoil mound removal, nuisance species removal, and hydrology/water quality improvements. Areas identified for potential enhancement were broken down into study units allowing for a review of involvement with access restrictions, cultural resources, and permit complexity. Multiple techniques were reviewed for each enhancement to identify the most effective spoil mound removal and mosquito ditch filling approach. Ultimately, an approach termed “Walk In, Dig Out” (WIDO) was determined to be effective in achieving proper elevations for spoil mound removal with acceptable costs. Hydrology improvements will include the dredging of impounded ditches and desilting ditches. Additional improvements include the use of spoil mound material to fill ditches in areas of stagnant water and to facilitate sheet flow of the tidal waters during the diurnal regime. A 42.4-acre pilot project area was identified within the northern portion of the preserve. Pinellas County seeks cooperative funding from SWFWMD for the enhancement of the pilot project area. This project is being considered a large-scale restoration project incorporating multiple elements. This is a multi-year project with fiscal year 2021 funding, which has already been secured, serving as the design and permitting phase and fiscal years 2022 and 2023 funding serving as the construction phase. Based on District’s strategic goals, the project aligns with the District’s core mission relating towards natural systems whose goal is to preserve, protect, and restore natural systems to support their natural hydro-logic and ecological functions. To meet the strategic goals, the District is implementing strategic initiatives. The project contributes to the conservation and restoration strategic initiative in which the goal is the restoration and management of natural ecosystems for the benefit of water and water-related resources. In regard to regional priorities and objectives, the Tampa Planning Region is focused on Minimum Flows and Levels (MFLs) recovery, improving water-bodies, and flood protection. The project will contribute towards improving Tampa Bay which is a SWIM priority water-body and has been designated as an “Estuary of National Significance.” The three main challenges faced in the Tampa Bay watershed are altered and lost coastal uplands and wetlands, nonnative species spread, and water quality degradation. The project will aim to restore altered wetlands and reduce nonnative plant species. A full breakdown of project details is included in the enclosed application.

Benefit:

This large-scale restoration project incorporates multiple elements and will include ecosystem enhancement through the mechanical removal of spoil mounds and hydrology improvements including the dredging of impounded ditches and desilting ditches. Additional improvements include the use of spoil mound material to fill ditches in areas of stagnant water and to facilitate sheet flow of the tidal waters during the diurnal regime. The Uniform Mitigation Assessment Method (UMAM) was used to assess the measurable benefit of the project. Figures 5 and 6 in Appendix A depict the project area pre- and post-construction. The removal of an estimated 8.7 acres of upland spoil mounds will result in a relative functional gain of 6.87 units. Temporary impacts resulting from the placement of fill in wetlands for the temporary access road will result in approximately 2.80 acres of impacts for a functional loss of 2.52 units. Once the temporary access roads are removed and grades restored, these areas will naturally revegetate and self-mitigate for a relative functional gain of 2.21 units. The net result of removal of upland spoil mounds, temporary impacts from access roads, and removal of the access roads is 6.56 units of functional gain. Hydrology improvements will provide restoration to existing ditches and remaining black mangrove areas. The filling of 3.0 acres of ditches with poor circulation will re-establish a proper diurnal sheet flow of tidal waters and will result in a relative functional gain of 0.72 units. The dredging of 2.1 acres of impounded ditches and the creation of deep water refugia during periods of very low tides and cold weather events will result in a relative functional gain of 0.50 units. The existing 25.4 acres of black mangrove will benefit from the removal of the upland spoil islands and reestablishment of proper diurnal tidal sheet flows and results in 1.52 units of relative functional gain. Large-scale restoration projects incorporating multiple elements are focused on acres restored and the cost effectiveness is based on the cost per acre restored. Based on a project area of 42.4 acres with an estimated project cost of $938,000 in which the entire project area will receive benefit from the ecosystem enhancement and hydrology improvements, the cost effectiveness of the project is approximately $22,118 per acre restored. For further detailed benefits please see the attached full application on pages 5 -7.

Cost:

The project is an expansion of the Weedon Island Tidal Wetland Restoration Feasibility Study with SWFWMD Project #W217 funded in FY2017. The next two phases of the project include the design and permitting phase and the construction phase for a total project cost to completion of $937,801. Pinellas County Parks and Conservation Resources will be splitting the last two phases of the project into fiscal years 2021 for design and permitting and fiscal years 2022-2023 for the construction phase. With this grant proposal a request is being made for fiscal year 2023 funding for the completion of the construction phase with a total project cost of $577,686. Pinellas County is proposing a 50/50 split of the proposed cost estimate for the completion of the construction phase and has committed $288,843 for a match in fiscal year 2023. The design phase received funding in fiscal year 2021, and after design and permitting is complete, Pinellas County will start to construct the enhancement project. The proposed cost for construction that will be split between fiscal years 2022 and 2023 funding is $825,266. Pinellas County is seeking a funding match of $288,843 in fiscal year 2023 to complete the construction phase (phase 2). It is anticipated that with the success of the enhancement of the pilot project area, Pinellas County will seek cooperative funding from SWFWMD for future phases of enhancement within Weedon Island Preserve.

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

A feasibility study was previously conducted under SWFWMD Project W217 and Pinellas County PID 000083A. The project was to conduct a study to identify and determine the feasibility of natural systems restoration projects within an approximately 1,100-acre portion of the Preserve. The project evaluated all potential opportunities for future habitat restoration enhancement projects with attention paid to environmental conditions, permeability, estimated costs, and other considerations as deemed appropriate. Specific restoration /enhancement activities included spoil mound removal, nuisance species removal, and hydrology improvements. Currently in place to meet requirements of Section 253.034, F.S., is the 2012 Weedon Island Management Plan. Outlined within the management plan are a series of goals and objectives classified under the following categories: Habitat Restoration and Improvement, Hydro-logic Preservation and Restoration, Exotic and Invasive Species Management and Control, Imperiled Species Habitat Maintenance, Enhancement, Restoration, or Population Restoration, Cultural and Historical Resources, Public Access and Recreational Opportunities, Capital Facilities and Infrastructure: Weedon Island Preserve Cultural and Natural History Center. The next update to the management plan will occur in 2022. Within the Weedon Island Management Plan there is a long-term goal to reduce the extent and abundance of exotic invasive species in the Preserve. An annual maintenance schedule is in place to use herbicide to treat exotic vegetation. In addition to the Preserve, Pinellas County maintains additional nature parks and preserves within its park system such as Fort De Soto Park and Brooker Creek Preserve. The Weedon Island Preserve is managed "… only for the conservation and protection of natural and historical resources and for resource-based public outdoor recreation which is compatible with the conservation and protection of these public lands."

Funding Source	Prior Funding	FY2022	FY2023	Future Funding	Total Funding
Applicant Share	56,268	123,790	288,843	0	468,901
District Share	56,268	123,790	288,843	0	468,901
Total	**112,536**	**247,580**	**577,686**	**0**	**937,802**

Matching Fund Reduction

☐ Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

Timelines

Construction and Construction Engineering & Inspection (CEI)	9/30/23

FY 2023 Cooperative Funding Initative Application Form

Project Name: Roosevelt Creek Watershed Management Plan

Project Number: Q116

Cooperator: Pinellas County

Contact Person: Nabil Bawany

Department:

Address: 22211 US HWY 19 Bldg 1

Phone #: 7274644199

City State Zip: Clearwater, Fl 33765

Ext:

Email: nbawany@pinellascounty.org

Project Type:

Flood Protection, Natural Systems, Water Quality

Strategic Initiatives:

Emergency Flood Response

Floodplain Management

Natural Systems Conservation and Restoration

Water Quality Maintenance and Improvement

Project Description/Benefit/Cost

Description:

The project involves the development of a comprehensive watershed management plan (WMP) that results in recommendations for drainage, water quality and natural systems improvement projects in the Roosevelt Creek watershed. The Roosevelt Creek watershed covers approximately 8,116 acres of central Pinellas County. The watershed consists of intensely-developed urban and industrial land use within portions of unincorporated Pinellas County as well as parts of the City of St. Petersburg and the City of Pinellas Park. Three major channels drain the Roosevelt Creek watershed into Old Tampa Bay.

The most recent Roosevelt Creek WMP was completed in 2007, but the watershed has seen a great deal of development over the last 10 years. Furthermore, significant new capital improvement projects are planned in the watershed (e.g., the FDOT's Gateway Expressway project, the County's 126th Ave. North improvement project, and the County's two, SWFWMD co-funded water quality improvement projects). Concurrently, the City of St. Petersburg is undertaking an update to their stormwater master plan, which includes their portion of the Roosevelt Creek watershed. The County's project would develop an updated WMP for Roosevelt Creek within unincorporated Pinellas County and would complement St. Petersburg's efforts to update the WMP within their portion of the watershed. The WMP will be developed in general accordance with the District's Guidelines and Specifications.

Benefit:

The contractual Measurable Benefit will be the completion of an updated WMP that identifies floodplains, establishes LOS, and evaluates BMPs to address flooding concerns water quality and natural systems in the watershed.

Cost:

This request is for the third year of a three-year project, whose total project amount is estimated to be $800,000.

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

The Pinellas County Comprehensive Plan obligates the County to protect, enhance, and improve water quality through water quality monitoring, watershed management plan development, implementation of projects, and environmental enforcement.

In addition, the County is obligated by the Comprehensive Plan to work to improve flood protection and natural systems. The County has a fertilizer ordinance which restricts using products containing nitrogen or phosphorus during the rainy season with a related sales ban, a pet waste ordinance, and a street sweeping program all designed to reduce nutrient pollution to receiving waters. The County also has adopted a stormwater assessment that collects money to fund surface water programs, which include stormwater maintenance and related public outreach and education programs. In addition, many of our County vehicles are wrapped with stormwater education messages and professional landscape maintenance companies are required to take a BMP training certification course.

Funding Source	Prior Funding	FY2022	FY2023	Future Funding	Total Funding
Applicant Share	250,000	0	150,000	0	400,000
District Share	250,000	0	150,000	0	400,000
Total	**500,000**	**0**	**300,000**	**0**	**800,000**

Matching Fund Reduction

☐ Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

Timelines

Procurement	1/31/20
Project Development	3/31/20
Watershed Evaluation	9/1/20
Floodplain Analysis	5/1/21
FPLOS and BMPs	11/1/21
SWRA and BMPs for Water Quality	6/1/22

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

FY 2023 Cooperative Funding Initative Application Form

Project Name: Southeast Seminole Heights Flood Relief

Project Number: N949

Cooperator: City of Tampa

Contact Person: Ben Allushuski, P.E., CFM

Department:

Address: 306 E. Jackson St 6N

Phone #: 8132743257

City State Zip: Tampa, FL 33602

Ext:

Email: Ben.Allushuski@tampagov.net

Project Type:

Flood Protection, Water Quality

Strategic Initiatives:

Emergency Flood Response

Floodplain Management

Water Quality Maintenance and Improvement

Project Description/Benefit/Cost

Description:

Design, permitting, and construction of regional stormwater improvements to serve an area of approximately 850 acres of urban environment discharging into the Hillsborough River south of the Hillsborough River Dam in the Southeast Seminole Heights area of the City of Tampa. The intent of this project is to construct and implement flood relief efforts in the watershed to alleviate frequent and dangerous flooding on critical evacuation routes and in residential neighborhoods. This project includes upsizing existing pipes, installing higher capacity trunklines, and adding stormwater treatment systems for water quality purposes. Funding was approved in FY2022 for construction. The District required a third-party review as this project has a construction cost greater than $5 million. District Governing Board approved the full total project cost at the July 2021 Governing Board meeting. The FY2023 funding request is for construction.

Benefit:

The contractual Measurable Benefit will be the design, permitting, and construction of drainage conveyance system BMPs to reduce flooding in approximately 850 acres of highly-urbanized basin. Construction will be in accordance with the permitted plans. The Resource Benefit of this project will reduce the existing flooding problem for the mean-annual through the 100-year storm events. Structure and street flooding currently exists in the project area and the project impacts the regional or intermediate drainage system. Through the use of two Nutrient Separating Baffle Boxes and pervious pavement this project intends to remove approximately 280 lbs/year TN, and 40 lbs/year TP.

Cost:

Total project cost: $31,540,049.00 (design, third party review, permitting and construction). City of Tampa: $15,770,025.00. District: $15,770,024.00 with $11,500,000 approved in previous years, $3,270,024 requested in FY2023, and $1,000,000 anticipated to be requested in future years. The Benefit-Cost Ratio for this project is 0.77 based on a total project cost of $31,540,049.00.

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

The City of Tampa is a CRS Class 5 community. The City of Tampa also has the following codes in place relating to water conservation: 1) Standard Plumbing Code (Ord. No. 92-67,2,5-7-92; Ord. No. 96-64,62,3-14-96; Ord. No.98-40,19 2-26-98), 2) Water Use Restrictions Code (Ord. No. 2003-316; Ord. No. 2000-69, 97, 3-16-00; Ord. No. 2000-43,97,9-14-00; Ord. No. 2001-87,97,3-29-01), 3) Increase in Water Restriction Violation Fines (Ord. No. 2001-19,23,1-4-1), 4) Landscaping Code (Ord. No. 97-34,2,2-6-97), 5) Rain Sensor Requirement (part of Plumbing Code, Ord. No 98-40,19,2-26-98), 6) Schedule of Water Rates (Ord. No. 2001-0987,26-31,8-30-01). The city has adopted a Flood Damage Control Ordinance (Ord. No. 92-67, 2, 5-7-92, ord. No 92-134, 3, 4, 81-3-92; Ord. No. 96-64, 73-75, 3-14-96) as required to participate in the National Flood Insurance Program administered through FEMA. The City of Tampa also has a Stormwater Assessment Program that includes a Service Assessment and an Improvement Assessment. The Service Assessment has been in existence since 2003 as described in Resolution 2003-937. The Improvement Assessment was adopted in 2016 as described in Resolution 2016-706. The Service Assessment is an annual non-ad valorem assessment that pays for operations and maintenance of the existing stormwater system. Services include street sweeping, pond maintenance, pipeline system cleaning, outfall cleaning, ditch maintenance and miscellaneous micro-projects ancillary to maintenance activities. The Improvement Assessment is an annual non-ad valorem assessment that pays for capital improvements associated with the stormwater system in the City of Tampa. Improvements include system capacity increases, treatment facilities such as ponds, ditches and baffle boxes, new pipelines and box culverts, pump stations, backflow valves, inlets, curb and gutter systems, as well as roadway regrading to improve flow patterns.

Funding Source	Prior Funding	FY2022	FY2023	Future Funding	Total Funding
Applicant Share	4,000,000	7,500,000	3,270,025	1,000,000	15,770,025
District Share	4,000,000	7,500,000	3,270,024	1,000,000	15,770,024
Total	**8,000,000**	**15,000,000**	**6,540,049**	**2,000,000**	**31,540,049**

Matching Fund Reduction

☐ Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

Timelines

30 Percent Design Package	8/17/20
Third-Party Review	4/1/21
Design	7/30/21
Permitting	12/15/21
Construction and Construction Engineering & Inspection (CEI)	5/1/24
As-Built Survey, Record Drawings and Substantial Completion	6/1/24

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

FY 2023 Cooperative Funding Initative Application Form

Project Name: Southern Hillsborough County Supply Expansion Pipeline

Project Number: Q241

Cooperator: Tampa Bay Water

Contact Person: Benjamin Smith

Department:

Address: 2575 Enterprise Road

Phone #: 8134468346

City State Zip: Clearwater, FL 33763

Ext:

Email: bsmith@tampabaywater.org

Project Type:

Water Supply

Strategic Initiatives:

Alternative Water Supply

Regional Water Supply Planning

Project Description/Benefit/Cost

Description:

The Southern Hillsborough County Supply Expansion Pipeline project will supply additional alternative water from Tampa Bay Water's High Service Pump Station to Hillsborough County. This project is a new asset consisting of mainly a 60-inch or 66-inch diameter pipeline. The pipeline will be approximately 26 miles in total length with one delivery location at the Hillsborough County's Lithia Water Treatment Plant, and a second delivery at a new Point of Connection south of the Lithia Water Treatment Plant, which has been identified by Hillsborough County to be located at the County's Water Resources (AgMart) property.

Benefit:

The purpose of this project is two-fold; 1) it addresses hydraulic constraints which currently hinder Tampa Bay Water's ability to deliver additional quantities of existing alternative water supplies to southern Hillsborough County whose demands are increasing at a faster rate than other parts of the region and 2) to allow for delivery of future alternative water supplies, up to an additional 65 mgd, from the regional system to southern Hillsborough County as Tampa Bay Water expands existing facilities in order to meet regional demands over the 2040 planning horizon.

Cost:

The total cost for both segments (not including land acquisition related costs) is $290,108,000. The total requested funds in previous fiscal years is $4,459,207. Tampa Bay Water will be requesting $2.9 million in co-funding for Fiscal Year 2023. In future years an additional total amount of $137,694,793 will be requested

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

Tampa Bay Water uses a complex model to optimize and balance use of its existing supplies, which considers the impact on the environment, water quality, and reliability of the source water while meeting the overall system demands. Potential new supplies are incorporated into the model to evaluate the ability of the new supplies to meet future system demands while balancing the usage of Tampa Bay Water's existing sources. The model provides Tampa Bay Water with an effective tool for assessing and utilizing its existing and future water sources. Conservation is an important element of Tampa Bay Water's regional water supply. Tampa Bay Water plans and coordinates conservation programming in the Tampa Bay region. Member governments are responsible for implementing programs that quantifiably reduce water demand. Due to the successful conservation planning and implementation efforts by Tampa Bay Water and its members, the per capita use rate of approximately 100 gpcpd in the Tampa Bay region is significantly lower than the State average and exceeds District goals. Tampa Bay Water supports local government conservation programs by funding programs quantifying water conservation potential and cost, providing region-wide educational and marketing programs, and various research and development-based programs. Tampa Bay Water worked with its member governments in creating model irrigation and landscape ordinance language that was adopted by most members, has evaluated implementation of those ordinances, and is working with members to increase ease and effectiveness of implementation. Tampa Bay Water is a wholesale drinking water provider to our member governments and has no regulatory purview of any kind. Flood protection ordinances fall under the purview of the members and are implemented by them. Tampa Bay Water continues to seek better ways of serving its customers and protecting the environment. In addition to comprehensive hydrologic and environmental monitoring at Tampa Bay Water facilities, technologies employed include the Optimized Regional Operations Plan (OROP), short-term and long-term demand forecasting, and surface water forecasting methods to ensure that we keep pace with our member government demands, react quickly to changed conditions, and manage our facilities for the protection of the environment and the benefit of our customers.

Funding Source	Prior Funding	FY2022	FY2023	Future Funding	Total Funding
Applicant Share	0	4,459,207	2,900,000	137,694,793	145,054,000
District Share	0	4,459,207	2,900,000	137,694,793	145,054,000
Total	**0**	**8,918,414**	**5,800,000**	**275,389,586**	**290,108,000**

Matching Fund Reduction

☐ Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

Timelines

30% Design Package	2/15/23
Third-Party Review	8/31/23
Complete Design	4/21/25
Bidding	2/16/26
Construction	11/2/28
Closeout	2/19/29

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

FY 2023 Cooperative Funding Initative Application Form

Project Name: Starkey Road Watershed Management Plan

Project Number: Q199

Cooperator: Pinellas County

Contact Person: Rob Burnes

Department:

Address: 2221 N us 19 bldg 1

Phone #: 7274533149

City State Zip: clearwater, fl 33756

Ext:

Email: rburnes@pinellascounty.org

Project Type:

Flood Protection, Natural Systems, Water Quality

Strategic Initiatives:

Floodplain Management

Natural Systems Conservation and Restoration

Water Quality Maintenance and Improvement

Project Description/Benefit/Cost

Description:

The project involves the development of a comprehensive update to Starkey Road watershed management plan update (WMP) that results in recommendations for drainage, water quality and natural systems improvement projects. The Starkey Road Watershed covers approximately 11.6 square miles of central Pinellas County.

A formal watershed management plan was completed in 2013. With Pinellas County being a highly urbanized area with continuous redevelopment, the watershed has seen major alterations to hydrology and hydraulics. These changes would be captured by the continued effort to keep the watershed management plan up to date.

Benefit:

The contractual Measurable Benefit will be the completion of an updated WMP that identifies floodplains, establishes LOS, and evaluates BMPs to address flooding concerns, water quality and natural systems in the watershed.

Cost:

This request is the third year of a Three-year project, whose total project amount is estimated to be $500,000.

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

The Pinellas County Comprehensive Plan obligates the County to protect, enhance, and improve water quality through water quality monitoring, watershed management plan development, implementation of projects, and environmental enforcement. In addition, the County is obligated by the Comprehensive Plan to work to improve flood protection and natural systems. The County has a fertilizer ordinance which restricts using products containing nitrogen or phosphorus during the rainy season with a related sales ban, a pet waste ordinance, and a street sweeping program all designed to reduce nutrient pollution to receiving waters. The County also has adopted a stormwater assessment that collects money to fund surface water programs, which include stormwater maintenance and related public outreach and education programs. In addition, many of our County vehicles are wrapped with stormwater education messages and professional landscape maintenance companies are required to take a BMP training certification course

Funding Source	Prior Funding	FY2022	FY2023	Future Funding	Total Funding
Applicant Share	75,000	100,000	75,000	0	250,000
District Share	75,000	100,000	75,000	0	250,000
Total	**150,000**	**200,000**	**150,000**	**0**	**500,000**

Matching Fund Reduction

☐ Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

Timelines

Procurement	8/31/21

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

FY 2023 Cooperative Funding Initative Application Form

Matching Fund Reduction

☐ Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

Timelines

Project Development	10/31/21
Watershed Evaluation	3/31/22
Floodplain Analysis	8/31/23
FPLOS and BMP Alternatives Analysis	12/31/23
SWRA and BMPs for Water Quality	7/31/24

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

FY 2023 Cooperative Funding Initative Application Form

Project Name: Study - Crosstown Bypass Feasibility Study

Project Number: Q339

Cooperator: Hillsborough County Public Works Dept.

Contact Person: Mikhal Moberg

Department:

Address: 601 E Kennedy Blvd 22nd Floor

Phone #: 8133071831

City State Zip: Tampa, FL 33602

Ext:

Email: mobergm@hillsboroughcounty.org

Project Type:

Flood Protection

Strategic Initiatives:

Emergency Flood Response

Floodplain Management

Project Description/Benefit/Cost

Description:

The Delaney/Archie Creek Watershed Management Masterplan Update published in November 2016 and co-funded by SWFWMD identified multiple flood control alternatives that if implemented may help reduce flooding within the Delaney Creek Watershed. In order to move forward with a potential project identified within a Watershed Management Masterplan a project feasibility study/ Conceptual Design Study may be performed. The specific project of interest for this effort is the Crosstown Bypass Project. The main stem of Delaney Creek frequently floods resulting in high tailwater conditions for the numerous channels that discharge to the creek. This can be partially attributed to poor channel maintenance and increased development over time. This effort will review the feasibility of installation of a large bypass pipe running along the south right-of-way of the Crosstown Expressway, as a possible means of lowering stages along Delaney Creek. Specifically, this alternative included the construction of 8,600 feet of 5-feet high by 10-feet wide box culvert beginning at the south side of the Crosstown Expressway at Delaney Creek, and running northwest along the south side of the Crosstown, ultimately discharging into the Palm River. The results of the proposed feasibility study will help determine whether Hillsborough County moves forward with formal design and construction.

Benefit:

Completion of the Crosstown Bypass Feasibility Study may yield permittable, constructible and feasible drainage improvements that may improve the conditions within the community.

Cost:

The estimated cost is $100,000.

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

Water Conservation: Hillsborough County was the premier local government to decriminalize the violation of water use restrictions, and to adopt a civil citation process for the enforcement of the same in July 1993. A full-time Water Conservation Manager assures that the County stays abreast of conservation issues. This facilitates amendments to the County's Water Conservation Ordinance (HCO 03-07) as needed to quickly address changing conditions in the regulatory environment and as deemed appropriate by the County's administration. Flood Protection: The principal purpose of Hillsborough County's floodplain management program is to protect residents and business owners from flooding risks. Flooding disasters are the leading recurring hazard within the County and have the potential of affecting greater than one-quarter of the population at a value that is greater than five billion dollars in personal property. Construction standards and planning concepts are implemented through the County's Land Development Code. Floodplain Management Plan and Local Mitigation Strategy.

Funding Source	Prior Funding	FY2022	FY2023	Future Funding	Total Funding
Applicant Share	0	0	50,000	0	50,000
District Share	0	0	50,000	0	50,000
Total	**0**	**0**	**100,000**	**0**	**100,000**

Matching Fund Reduction

☐ Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

Timelines

Kick-off Meeting	10/30/22
Project Completion	1/1/25

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

FY 2023 Cooperative Funding Initative Application Form

Project Name: Study - Curlew Creek & Smith Bayou Feasibility Study (Q221)

Project Number: Q221

Cooperator: Pinellas County

Contact Person: Nancy Lamagna

Department:

Address: 14 S. Ft. Harrison Ave.

Phone #: 7274648918

City State Zip: Clearwater, FL 33756

Ext:

Email: nlamagna@pinellascounty.org

Project Type:

Flood Protection, Natural Systems, Water Quality

Strategic Initiatives:

Floodplain Management

Natural Systems Conservation and Restoration

Water Quality Maintenance and Improvement

Project Description/Benefit/Cost

Description:

(This FY23 application is for 2nd year of Q221 Study project)
Curlew Creek (fresh water segment) is ranked #4 in Pinellas County's 2018 TMDL Priority List. The 2019 Curlew Creek / Smith Bayou
Watershed Management Plan (WMP) has recommended several flood protection / water quality best management practices (BMPs). As
such, the County will conduct a Preliminary Engineering Report (PER) as initial implementation phase of the recommended BMPs. The
PER will assess the selected BMPs in further detail to better define water quality/flood protection benefits, property rights/acquisition
needs, permitting /mitigation requirements, research on utility conflicts and potential environmental concerns , in order to provide more
comprehensive & detailed projection on each project's needs on budgets /schedules before final implementation. Aside from the 2019
WMP, County has previously completed other studies with other water quality / flood control BMP recommendations for this watershed,
which can be also assessed and modeled in more detail by this PER project.

Benefit:

This PER study will provide alternative analysis and more detailed modeling analysis on BMP's recommended in the WMP, to fine tune each BMP's project cost
/schedule estimation, and help identify early on for potential project challenges like property /easement needs & costs, environmental
concerns, and specific corridor or locational constraints. For the BMPs selected in this feasibility study, the PER
will incorporate public outreach, alternative analysis evaluation, geotechnical investigation, environmental research, to help sharpen
the cost/schedule projection for each BMP, and establish a more-detailed engineering basis needed for final design/construction phase of
each BMP. Final list of selected BMPs to be included in this preliminary study will be determined upon negotiated consultant scope.

Cost:

FY22: $361,000 (SWFWMD $180,500 / Pinellas County $180,500)
FY23: $139,000 (SWFWMD $69,500 / Pinellas County $69,500)

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

The Pinellas County has a CRS rating of Class 5 by FEMA since 2016. The Pinellas County Comprehensive Plan obligates the County to
protect, enhance, and improve water quality through water quality monitoring, watershed management plan development, implementation

of projects, and environmental enforcement. In addition, the County is obligated by the Comprehensive Plan to work to improve flood
protection and natural systems. The County has a fertilizer ordinance which restricts using projects containing nitrogen or phosphorus
during rainy season, with a related public outreach & education program. In addition, many of our County vehicles are wrapped with
Stormwater education messages. Furthermore, professional landscape maintenance companies are required to take a MP training certification course.

Funding Source	Prior Funding	FY2022	FY2023	Future Funding	Total Funding
Applicant Share	0	180,500	69,500	0	250,000
District Share	0	180,500	69,500	0	250,000
Total	**0**	**361,000**	**139,000**	**0**	**500,000**

Matching Fund Reduction

☐ Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

Timelines

Project Commencement	1/11/22
Model Refinement	11/12/22
Draft Preliminary Engineering Report	9/13/23
Final Preliminary Engineering Report	2/14/24

FY 2023 Cooperative Funding Initative Application Form

Project Name: Study - Joe's Creek Model Update, Alternatives Analysis and Feasibility Study (Q196)

Project Number: Q196

Cooperator: Pinellas County

Contact Person: Nancy Lamagna

Department:

Address: 14 S. Ft. Harrison Ave.

Phone #: 7274648918

City State Zip: Clearwater, FL 33756

Ext:

Email: nlamagna@pinellascounty.org

Project Type:

Flood Protection, Natural Systems, Water Quality

Strategic Initiatives:

Floodplain Management

Natural Systems Conservation and Restoration

Water Quality Maintenance and Improvement

Project Description/Benefit/Cost

Description:

(This FY23 application is for the 3rd year of a 3-yr Funding Request for Q196.)
This project involves WMP model refinements & preliminary engineering study to develop the BMPs of the Joe's Creek WMP and to evaluate improvements to the Joe's Creek main channel, which flows to Cross Bayou & Boca Ciega Bay, a SWIM priority waterbody. While the 2016 Joe's Creek WMP's updated ICPR model meets SWFWMD's G&S, large sub-basin areas fail to account for surface storage within surcharged collection systems & contribute excessively high inflows to the channel. This will allow for better information to vet flood control / water quality projects, and better predict proposed flood stages and cost estimates.
The deliverables will include a more detailed ICPR model in the regions of the selected projects, including but not limited to the following:

Joe's Creek Ch-1 Stream Restoration from 66th St N to 37th St N (2020 Bank Stabilization Study B35-Ch1);
Joe's Creek Main Channel Box Culvert Upgrade at US 19 (2016 WMP W35-FC3) ;
55th St N Conveyance Improvements (SWTC35-1) ;
Silver Lake Pretreatment (2016 WMP WQ1);
Joe's Creek Main Channel Box Culvert Upgrade at 49th St N (2016 WMP FC4).

A PER with preliminary design will be developed for each of the selected projects.

Benefit:

This PER project will provide updated and more detailed analysis, cost estimates, and water quality/flood protection benefit calculations,
along with preliminary design, for the selected BMPs recommended in the 2016 WMP and other studies for Joe's Creek watershed. The PER will then rank the selected BMPs for design, permitting and construction, proposed to improve water quality / flood protection within the Joe's Creek watershed, which is listed on the County's TMDL priority list. The County intends to move forward with design and construction of these BMPs subsequent to the PER.

Cost:

Total project cost = $720,000
FY21 $360,000 (SWFWMD $180k / Pinellas County $180k)
FY22 $180,000 (SWFWMD $90k / Pinellas County $90k)
FY23 $180,000 (SWFWMD $90k / Pinellas County $90k) Current FY23 Application

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

Pinellas County has a CRS ranking of Class 5 per FEMA. The Pinellas County Comprehensive Plan obligates the County to protect,
enhance, and improve water quality through water quality monitoring, watershed management plan development, implementation of
projects, and environmental enforcement. In addition, the County is obligated by the Comprehensive Plan to work to improve flood protection and natural systems. The County has a fertilizer ordinance which restricts using products containing nitrogen or

phosphorus
during the rainy season with a related public outreach/education programs. In addition, many of our County vehicles are wrapped with
stormwater education messages and professional landscape maintenance companies are required to take a BMP training certification
course.

Funding Source	Prior Funding	FY2022	FY2023	Future Funding	Total Funding
Applicant Share	180,000	90,000	90,000	0	360,000
District Share	180,000	90,000	90,000	0	360,000
Total	**360,000**	**180,000**	**180,000**	**0**	**720,000**

Matching Fund Reduction

☐ Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

Timelines

Commencement (Rev.)	7/14/21
Completion (Rev.)	1/31/24

FY 2023 Cooperative Funding Initative Application Form

Project Name: Sulphur Springs Flow Augmentation Feasibility Study

Project Number: Q236

Cooperator: City Of Tampa Water Department

Contact Person: Seung Park

Department:

Address: 4900 W. Lemon St., 2nd FL

Phone #: 8132747095

City State Zip: Tampa, FL 33609

Ext:

Email: seung.park@tampagov.net

Project Type:

Natural Systems, Water Quality

Strategic Initiatives:

Minimum Flows and Levels Recovery

Water Quality Maintenance and Improvement

Project Description/Benefit/Cost

Description:

The Lower Hillsborough River (LHR) minimum flows and levels (MFLs) Rule and associated LHR Recovery Strategy have been adopted by
the Southwest Florida Water Management District (SWFWMD). A key component of the LHR Recovery Strategy involves diversion of
water from the Sulphur Springs to the LHR at the base of the Hillsborough River Dam. Additionally, Blue Sink has been included as a
Recovery Strategy source and the City of Tampa (City) and SWFWMD co-funded the construction of a pump station and a pipeline to
transfer flow from Blue Sink to the LHR. The City is permitted to withdraw 2 million gallons per day peak flow and 1.74 million gallons
per day annual average flow from Blue Sink for LHR MFLs compliance when flow at the base of the dam is below the established
minimum flows. With heavy reliance on the Sulphur Springs for the LHR MFLs compliance, there has been a growing concern over this
water source becoming more saline. Because of this, both SWFWMD and the City question the sustainability of the Springs in the long
term to remain a viable Recovery Strategy source. The Sulphur Springs Augmentation – Phase I: Feasibility Project is proposed to seek
opportunity to provide additional freshwater flow to meet LHR MFLs compliance. Under this feasibility phase, the City will assess
freshwater flow availability upstream of Sulphur Springs within the Curiosity Creek Watershed with hydrological and hydraulic analyses
and with review and update of critical elements included in the Hillsborough County's September 2017 Curiosity Creek Watershed
Management Plan Update with current conditions. The City will use the water level at the Ewanowski Spring as a control point. This phase
will also include a detailed alternatives analysis to determine the best infrastructure configuration for conveyance to the Sulphur Springs. If
additional flow can be allowed to be stored into the stormwater pond adjacent to Blue Sink for storage and promote continuous withdrawal
of water from Blue Sink, without the existing special condition and transfer this flow to Sulphur Springs from the Curiosity Creek
Watershed, it is anticipated that the salinity will decrease and allow Sulphur Springs to remain a valuable secondary MFL water
source option for the LHR and the primary option for the Sulphur Springs Run.
This will also result in relief of the current flooding conditions and improve water quality within the Curiosity Creek Watershed. The water
quality improvements will include sediment removal necessary to protect the integrity of Ewanowski Spring. The City greatly appreciates
its cooperative relationship with SWFWMD in its continued efforts to meet the LHR MFLs requirements while utilizing the most
cost-effective, feasible approach.

Benefit:

If it is determined feasible to increase freshwater flow to Sulphur Springs, the City and the SWFWMD can continue to rely on this resource to achieve LHR MFLs compliance and also allow the City return to using Sulphur Springs to augment the public water supply as permitted by the SWFWMD. Additionally, flooding experienced within the Curiosity Creek Watershed will be relieved.

Cost:

FY 2023 Cooperative Funding Initative Application Form

The total project cost of this phase is estimated to be $640,000 and should have a District share of $320,000 and City share of $320,000. The District and City committed $125,000 each in FY2022. A total of $380,000 is needed in FY 2023 and City respectfully requests $190,000 share from the District in FY2023.

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

The City of Tampa has the following codes in place relating to water conservation: 1) Standard Plumbing Code (Ord. No. 92-67,2,5-7-92;
Ord. No. 96-64,62,3-14-96; Ord. No.98-40,19 2-26-98), 2) Water Use Restrictions Code (Ord. No. 2003-316; Ord. No. 2000-69, 97, 3-
16-00; Ord. No. 2000-43,97,9-14-00; Ord. No. 2001-87,97,3-29-01), 3) Increase in Water Restriction Violation Fines (Ord. NO. 2001-
19,23,1-4-1), 4) Landscaping Code (Ord. No. 97-34,2,2-6-97), 5) Rain Sensor Requirement (part of Plumbing Code, Ord. NO 98-40,19,2-
26-98), 6) Schedule of Water Rates (Ord. NO. 2001-0987,26-31,8-30-01). The city has adopted a Flood Damage Control Ordinance
(Ord. NO. 92-67, 2, 5-7-92, ord. NO 92-134, 3, 4, 81-3-92; Ord. NO. 96-64, 73-75, 3-14-96) as required to participate in the National
Flood Insurance Program administered through FEMA.

Funding Source	Prior Funding	FY2022	FY2023	Future Funding	Total Funding
Applicant Share	0	125,000	190,000	5,000	320,000
District Share	0	125,000	190,000	5,000	320,000
Total	**0**	**250,000**	**380,000**	**10,000**	**640,000**

Matching Fund Reduction

☐ Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

Timelines

Model Update	6/30/24
Conveyance Alternatives Analysis	8/31/24
Feasibility Study of Conveyance Options	8/31/24
Natural and Hydrogeologic Systems Evaluation	8/31/24
Sedimentation Source Investigation	8/31/24

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

FY 2023 Cooperative Funding Initative Application Form

Project Name: Sutherland Bayou Watershed Management Plan

Project Number: Q219

Cooperator: Pinellas County

Contact Person: Nabil Bawany

Department:

Address: 22211 US HWY 19 Bldg 1

Phone #: 7274644199

City State Zip: Clearwater, Fl 33765

Ext:

Email: nbawany@pinellascounty.org

Project Type:

Flood Protection, Natural Systems, Water Quality

Strategic Initiatives:

Emergency Flood Response

Floodplain Management

Natural Systems Conservation and Restoration

Water Quality Maintenance and Improvement

Project Description/Benefit/Cost

Description:

The project involves the development of a comprehensive watershed management plan (WMP) that results in recommendations for drainage, water quality and natural systems improvement projects for Sutherland Bayou watershed. This project would develop a new WMP for Sutherland Bayou, which has not had a formal watershed study conducted with the Except for the County's Stormwater Master Plan completed in the early 1980. This WMP will be developed in general accordance with the District's Guidelines and Specifications. Including Watershed evaluation, Model development, LOS SWRA and BMPs The Sutherland Bayou watershed is located in northwest Pinellas County, west of Lake Tarpon. The total basin area is approximately 2.36 Sq Miles. The watershed is mostly low to medium density residential land use. Sutherland Bayou abuts 3 watersheds Klosterman Bayou to the north, Smith Bayou to the south and Clearwater harbor North watershed to the west.

Benefit:

The contractual measurable benefit will be the completion of a WMP that identifies floodplains, establishes LOS, performs SWRA, and evaluates BMPs to address flooding, natural systems and water quality concerns and in the watershed.

Cost:

This request is for the Second year of a three-year project, whose total project amount is estimated to be $300,000.

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

The Pinellas County Comprehensive Plan obligates the County to protect, enhance, and improve water quality through water quality monitoring, watershed management plan development, implementation of projects, and environmental enforcement. In addition, the County is obligated by the Comprehensive Plan to work to improve flood protection and natural systems. The County has a fertilizer ordinance which restricts using products containing nitrogen or phosphorus during the rainy season with a related sales ban, a pet waste ordinance, and a street sweeping program all designed to reduce nutrient pollution to receiving waters. The County also has adopted a stormwater assessment that collects money to fund surface water programs, which include stormwater maintenance and related public outreach and education programs. In addition, many of our County vehicles are wrapped with stormwater education messages and professional landscape maintenance companies are required to take a BMP training certification course

Funding Source	Prior Funding	FY2022	FY2023	Future Funding	Total Funding
Applicant Share	0	50,000	100,000	0	150,000
District Share	0	50,000	100,000	0	150,000
Total	**0**	**100,000**	**200,000**	**0**	**300,000**

Matching Fund Reduction

☐ Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

Timelines

Procurement	1/30/22
Project Development	4/30/22
Watershed Evaluation	12/30/22
Floodplain Analysis	3/1/23
FPLOS and BMP Alternatives Analysis	10/31/23
SWRA and BMPs for Water Quality	10/31/24

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

FY 2023 Cooperative Funding Initative Application Form

Project Name: Tarpon Springs Reclaimed Water Groundwater Storage Project

Project Number: Q333

Cooperator: Tarpon Springs

Contact Person: Thomas Kiger

Department:

Address: 201 E Pine Street

Phone #: 7279425616

City State Zip: Tarpon Springs, FL 34689

Ext:

Email: tkiger@ctsfl.us

Project Type:

Water Supply

Strategic Initiatives:

Reclaimed Water

Project Description/Benefit/Cost

Description:

The purpose of this project is to develop approximately 400,000 gpd of existing reclaimed water for beneficial reuse. This project will consist of a new reclaimed water groundwater recharge project. The goal of this project is to utilize the remaining undeveloped reclaimed water supply at the City of Tarpon Springs. The operational concept is to provide 400,000 gpd of beneficial aquifer recharge in the Northern Tampa Bay Water Use Caution Area via a permitted recharge well. This City has contracted with its engineering and hydrogeology consultants Wright-Pierce and ASRus to develop this operational concept through the feasibility study phase in FY2021 with ongoing feasibility work scheduled in FY2022.

Benefit:

The benefit of this project will be the beneficial reuse of approximately 400,000 gpd of reclaimed water in the Northern Tampa Bay Water Use Caution Area. This project will also eliminate the surface water discharge from the City's AWWTF to the Anclote River (WBID 1440) which is currently impaired for total nitrogen and total phosphorus. This project would reduce total nitrogen loadings to the Anclote River by approximately 1,220 lbs/year.

Cost:

Planning level costs are currently in development. This application will be requesting conceptual design and permitting funding for FY2023. The conceptual design and permitting cost will be approximately $250,000. Final design and permitting costs will be an additional $450,000 in FY2024, for a total design and permitting cost of $700,000. The future construction phase is estimated to be approximately $2,800,000. Phasing is currently under development in an existing feasibility study, and the City has already committed $70,000 of its own funds to the existing feasibility study to date.

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

The City has a well establish reclaimed water program which to date utilizes approximately 80% of the wastewater effluent for public access reuse. The City has worked with the District over many years to build out this system, improve supply reliability and develop 9 million gallons of reclaimed storage capacity.
The reclaimed water program continues to improve and expand with additional customers, most recently notable is the Westwinds and Grassy
Pointe residential reclaimed transmission and distribution project completed with the cooperative grant assistance from the SWFWMD. The City also maintains and enforces a mandatory dual distribution ordinance to require reclaimed water infrastructure in new developments and similarly requires customers to connect to reclaimed water service when it becomes available.
Additionally, the City promotes water conservation efforts that have resulted in a measurable and steady reduction in per capita water consumption to
90 gallons per capita per day. The City of Tarpon Springs has a Water Distribution Division and Water Meter Repair Division, which are responsible for maintaining and evaluating our public water supply system and keep our water loss to a minimum. Each division performs any required repairs and performs specific preventative maintenance tasks to ensure conservation of our water supply. It should be noted, the City maintains
watering restrictions year round at once per week. City conservation efforts include a water conserving inclining block rate structures and
a comprehensive reclaimed water program that helps to offset potable quality groundwater for irrigation. The City also uses a phased system of reclaimed watering restrictions to manage reclaimed demand during the dry season to conserve reclaimed supply. The City also provides for code-based enforcement of watering restrictions, and the applicable section of the Municode states “All water use restrictions or other measures imposed by the

district pursuant to Chapter 40D-21 adopted pursuant to § 20-42 may be enforced by the Police Department, the Utilities Department or
any other designee of the City Manager.” ('80 Code, § 20-43) (Ord. 90-49, passed 11-6-90).
Finally, the City has an alternative water supply facility that uses a lower quality water source to conserve the regions traditional groundwater supplies.

Funding Source	Prior Funding	FY2022	FY2023	Future Funding	Total Funding
Applicant Share	0	0	125,000	1,625,000	1,750,000
District Share	0	0	125,000	1,625,000	1,750,000
Total	**0**	**0**	**250,000**	**3,250,000**	**3,500,000**

Matching Fund Reduction

☐ Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

Timelines

Conceptual Design and Permitting - Commence	10/1/23
Conceptual Design and Permitting- Complete	9/1/24
Design, Permitting, Hydrogeology - Commence	10/1/24
Design, Permitting, Hydrogeology - Complete	9/1/25
Construction Phase and Testing- Commence	10/1/25
Construction Completion and Transfer to Operation	9/1/27

FY 2023 Cooperative Funding Initative Application Form

Project Name: Tarpon Springs Water Conservation Phase IV

Project Number: Q322

Cooperator: Tarpon Springs

Contact Person: Ashley Tobin

Department:

Address: 324 East Pine Street

Phone #: 7279425638

City State Zip: Tarpon Springs, FL 34689

Ext:

Email: atobin@ctsfl.us

Project Type:

Water Supply

Strategic Initiatives:

Conservation

Project Description/Benefit/Cost

Description:

The City of Tarpon Springs Water Conservation Program will provide financial incentives to residential and commercial customers for the replacement of conventional toilets with high-efficiency toilets that use 1.28 gallons per flush or less. This project will include rebates and program administration for the replacement of approximately 75 high flow toilets. Also included are educational materials, program promotion, and surveys necessary to ensure the success of the program. Additionally, indoor/outdoor water conservation items and residential irrigation audits will be considered.

Benefit:

It is anticipated that by replacing 75 high volume toilets, this project will provide an estimated potable water savings of 1394.4 gallons per day in the Northern Tampa Bay Water Use Caution Area. Additional savings will be realized with the distribution of indoor/outdoor water conservation items and upon completion of outdoor irrigation audits. The contractual Measurable Benefit will be the implementation of the program and the completion of a Final Report.

Cost:

Total project cost $30,000; split between the City of Tarpon Springs: $15,000; and the Southwest Florida Water Management District: $15,000. The cost effectiveness of the program is $2.55 per thousand gallons saved. (6404 gpd water saved at a cost of $28,900 amortized at 8% over 20 years). Further evaluation will be made concerning cost effectiveness upon implementation of the program.

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

The City of Tarpon Springs has a Water Distribution Division and Water Meter Repair Division, which are responsible for maintaining and evaluating the operating conditions of each component to optimize our public water supply system and keep our avoidable water loss to a minimum. Each division performs any required repairs and performs specific preventative maintenance tasks to ensure conservation of our water supply. According to the City's applicable section of the Municode, “All water use restrictions or other measures imposed by the district pursuant to Chapter 40D-21 adopted pursuant to § 20-42 may be enforced by the Police Department, the Utilities Department or any other designee of the City Manager.” ('80 Code, § 20-43) (Ord. 90-49, passed 11-6-90). It should be noted, the City maintains watering restrictions year round at once per week. City conservation efforts include a water conserving inclining block rate structures and a comprehensive reclaimed water program that helps to offset potable quality groundwater for irrigation. It should be noted that our reclaimed water program continues to improve and expand with additional customers, most recently notable is the Westwinds and Grassy Pointe residential reclaimed transmission and distribution project completed with the cooperative grant assistance from the

SWFWMD. The
promotion of these water conservation efforts have resulted in a measurable and steady reduction in our per capita water consumption to
90 gallons per capita per day. The City has an alternative water supply facility that relies upon the efficient use of water resources for long-term
sustainability and accordingly, water conservation represents an integral part. Water conservation is one of the most effective ways we can help build a sustainable water supply and we are looking forward to building upon our successful collaborative relationship for this water conservation project for evaluation and consideration of CFI funding.

Funding Source	Prior Funding	FY2022	FY2023	Future Funding	Total Funding
Applicant Share	0	0	15,000	0	15,000
District Share	0	0	15,000	0	15,000
Total	**0**	**0**	**30,000**	**0**	**30,000**

Matching Fund Reduction

☐ Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

Timelines

Program Administration, Inspection, Promotion and Education	10/1/23
Toilet Rebates/Credits, Indoor/Outdoor Water Conservation Items and Residential Irrigation Audits	10/1/23
Draft Final Report	10/31/24
Final Report	12/31/24

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

FY 2023 Cooperative Funding Initative Application Form

Project Name: Upper Peninsula Stormwater Improvements - East Region

Project Number: Q327

Cooperator: City of Tampa

Contact Person: Ben Allushuski, P.E., CFM

Department:

Address: 306 E. Jackson St 6N

Phone #: 8132743257

City State Zip: Tampa, FL 33602

Ext:

Email: Ben.Allushuski@tampagov.net

Project Type:

Flood Protection, Water Quality

Strategic Initiatives:

Emergency Flood Response

Floodplain Management

Water Quality Maintenance and Improvement

Project Description/Benefit/Cost

Description:

Design, permitting, and construction of regional stormwater improvements to serve an area of approximately 259 acres of urban environment discharging to the Hillsborough Bay near the intersection of South Howard Avenue and Bayshore Boulevard in the east region of the Upper Peninsula watershed in the City of Tampa. The intent of this project is to construct a box culvert system and associated piping and stormwater treatment systems to provide a primary conveyance system along a main thoroughfare where no stormwater system currently exists to relieve frequent and dangerous flooding. Structure and street flooding currently exists within the watershed. The Parkland Estates neighborhood is located at the upstream end of the watershed and the area routinely experiences dangerous flooding during certain storm events due to an old and undersized drainage system. Near this location is the Memorial Hospital of Tampa where ambulances and other vehicles frequently get flooded out and stall along West Swann Avenue during high intensity and short duration storm events. Photographic evidence is submitted with this application. The Upper Peninsula East Region watershed is comprised of seven (7) different neighborhoods in South Tampa including many historic and high pedestrian traffic areas. The construction of this new box culvert system will serve future development and lateral connections to adjacent neighborhoods that experience frequent flooding. This project will also separately propose Transportation and Mobility improvements to the South Howard Avenue corridor to make the area more pedestrian friendly and safe in addition to improving the overall sustainability and resiliency for the area. The City of Tampa will not seek reimbursement from SWFWMD for the Transportation and Mobility improvements. It should also be noted that the Tampa Hillsborough Expressway Authority (THEA) is planning to widen the existing Selmon Expressway that traverses the project area and the City of Tampa is coordinating with THEA about connecting to the proposed box culvert for attenuation of runoff from additional impervious surfaces. It is expected that THEA will contribute a portion of funding to the project, however, the City of Tampa will not include the THEA amount in the total project cost to be reimbursed 50% by SWFWMD. The FY2023 funding request is for Thirty (30) Percent Design and Third Party Review. Funding will be requested in future years for design and construction.

Benefit:

The contractual Measurable Benefit will be the design, permitting, and construction of drainage conveyance system BMPs to reduce flooding in approximately 259 acres of highly-urbanized basin. Construction will be in accordance with the permitted plans. The Resource Benefit of this project will reduce the existing flooding problem for the mean-annual through the 100-year storm events. Structure and street flooding currently exists in the project area and the project impacts the regional or intermediate drainage system. Through the use of at least one Nutrient Separating Baffle Box this project intends to remove approximately 9 lbs/year TN, and 1.5 lbs/year TP. The quantities of nutrients removed for this project are expected to significantly increase as the project design progresses. The City of Tampa intends to implement substantial water quality treatment components including Green Infrastructure elements such as pervious pavement and bioswales to further improve water quality discharges to the Hillsborough Bay. Utilizing SWFWMD's BCA spreadsheet tool, the BCR for this project is currently 0.77 based on an estimated total project cost of $45,362,600.

Cost:

Total project cost: $45,362,600.00 (design, third party review, permitting and construction). City of Tampa: $22,681,300.00. District: $22,681,300.00 with $500,000.00 being requested in FY2023 for 30 Percent Design and Third Party Review, and $22,181,300.00 anticipated to be requested in future years.

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

FY 2023 Cooperative Funding Initative Application Form

The City of Tampa is a CRS Class 5 community. The City of Tampa also has the following codes in place relating to water conservation: 1) Standard Plumbing Code (Ord. No. 92-67,2,5-7-92; Ord. No. 96-64,62,3-14-96; Ord. No.98-40,19 2-26-98), 2) Water Use Restrictions Code (Ord. No. 2003-316; Ord. No. 2000-69, 97, 3-16-00; Ord. No. 2000-43,97,9-14-00; Ord. No. 2001-87,97,3-29-01), 3) Increase in Water Restriction Violation Fines (Ord. No. 2001-19,23,1-4-1), 4) Landscaping Code (Ord. No. 97-34,2,2-6-97), 5) Rain Sensor Requirement (part of Plumbing Code, Ord. No 98-40,19,2-26-98), 6) Schedule of Water Rates (Ord. No. 2001-0987,26-31,8-30-01). The city has adopted a Flood Damage Control Ordinance (Ord. No. 92-67, 2, 5-7-92, ord. No 92-134, 3, 4, 81-3-92; Ord. No. 96-64, 73-75, 3-14-96) as required to participate in the National Flood Insurance Program administered through FEMA. The City of Tampa also has a Stormwater Assessment Program that includes a Service Assessment and an Improvement Assessment. The Service Assessment has been in existence since 2003 as described in Resolution 2003-937. The Improvement Assessment was adopted in 2016 as described in Resolution 2016-706. The Service Assessment is an annual non-ad valorem assessment that pays for operations and maintenance of the existing stormwater system. Services include street sweeping, pond maintenance, pipeline system cleaning, outfall cleaning, ditch maintenance and miscellaneous micro-projects ancillary to maintenance activities. The Improvement Assessment is an annual non-ad valorem assessment that pays for capital improvements associated with the stormwater system in the City of Tampa. Improvements include system capacity increases, treatment facilities such as ponds, ditches and baffle boxes, new pipelines and box culverts, pump stations, backflow valves, inlets, curb and gutter systems, as well as roadway regrading to improve flow patterns.

Funding Source	Prior Funding	FY2022	FY2023	Future Funding	Total Funding
Applicant Share	0	0	500,000	22,181,300	22,681,300
District Share	0	0	500,000	22,181,300	22,681,300
Total	**0**	**0**	**1,000,000**	**44,362,600**	**45,362,600**

Matching Fund Reduction

☐ Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

Timelines

30% Design	10/1/23
Third Party Review	4/1/24
Permitting	6/1/24
Construction	9/30/26

FY 2023 Cooperative Funding Initative Application Form

Project Name: WMP-Pithlachascotee/Bear Creek Watershed Management Plan

Project Number: Q011

Cooperator: Pasco County

Contact Person: David Z. Sua

Department:

Address: 4454 Grand Blvd.

Phone #: 7278343611

City State Zip: New Port Richey, FL 34652

Ext: 1041

Email: dsua@pascocountyfl.net

Project Type:

Flood Protection

Strategic Initiatives:

Floodplain Management

Project Description/Benefit/Cost

Description:

The Pithlachascotee/Bear Creek Watershed is approximately 170 square miles in size, with headwaters beginning in southern Hernando County. This Pithlachascotee / Bear Creek Watershed Management Plan (WMP) update is a continuing project under the Southwest Florida Water Management District's Watershed Management Program, and follows the February 2020 Singhofen & Associates WMP update report for the watershed. That report was completed under SWFWMD's Task Work Assignment (TWA) No. 19TW0001902. The current WMP update requires an increased budget amount that was negotiated amount required by the consultant (Collective Water Resources, LLC) to complete the WMP update through the Floodplain Analysis and Flood Protection Level of Service, as well as development of Best Management Practices (BMP) Alternatives phases of the project.

Benefit:

Watershed models allow Pasco County to identify watershed status and trends. These models become outdated as the County grows and new development is built. Hydrologic and hydraulic modeling capabilities also improve which result in better estimates of runoff processes in the watershed along with new 2018 Digital Elevation Models (DEMs). The information from WMPs helps the County with floodplain management and development review. Additionally, the BMP analyses provide needed information on hydrologic and hydraulic flood protection solutions that help abate flooding in the watershed. The overall information provided helps the County maintain a Community Rating System that can result in lower flood insurance rates for citizens of Pasco County.

Cost:

This cooperative funding request increases the original contract amount by $400,000.00, from $1,600,000.00 to $2,000,000.00, at a 50-50 cost-share. The new budget amount was a that negotiated with the consultant (Collective Water Resources, LLC) to complete the WMP update through the Floodplain Analysis and Flood Protection Level of Service, as well as development of Best Management Practices Alternatives phases of the project.

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

Pasco County's reclaimed water system includes metering and incentive-based reuse rate structures for high volume water users and has pro-active reclaimed water expansion policies which maximize utilization, water resource benefits, and environmental benefits.
Since 2001, the Pasco County Board of County Commissioners (BCC) has maintained a once-a-week, residential, lawn-irrigation limitation. Highlights of Pasco County Ordinance No. 01-08 include the following:
1. One day-per-week irrigation limitation on potable water usage.
2. Curtailed use of potable water for irrigation when rain has occurred within 24 hours.
3. Twice-a-week limitation on reclaimed-water usage.
4. Washing of nonbusiness, personal vehicles only using low-volume methods and over pervious surfaces.
5. Prohibiting aesthetic uses of water unless such use also provides a necessary aeration or water-quality benefit.
6. Use of reclaimed water for road construction activities when available.

In 2020, Pasco County Utilities beneficially reused 100% of wastewater, resulting in zero surface water discharge. The bulk rate charged for the use of reclaimed water is $0.70 per 1,000 gallons for customers that have storage capability. All other bulk customers that feed directly off of the system will be charged $0.35 per thousand gallons used. Residential reclaimed water customers will notice a new base charge of $11 for reclaimed water, which includes the first 10,000 gallons, and then a tiered rate of $1.10 for every additional 1,000 gallons used.
To help residential reclaimed customers as well as potable customers conserve as much water as possible, Pasco County Utilities provides complimentary site visits, which include re-programming irrigation controllers, completing irrigation evaluations, and

educating homeowners about how to efficiently operate their irrigation systems. Pasco County Utilities also provides conservation messaging to residential reclaimed customers through mass emails, newsletters, and social media.
Pasco County's potable water rates are applied in a water conservation inclining block rate.
Pasco County Ordinance No. 93-16 requires each new development to construct a reclaimed water distribution system as a condition of wastewater service when the development is within designated areas in the Pasco County Master Reuse System (PCMRS) and when providing the development with reclaimed water supply is determined to be in the best interest of the County.
Pasco County participates in the National Flood Insurance Program, administered through the Federal Emergency Management Agency (FEMA). All finished floor elevations are required to be above the 100-year flood elevation. These elevations are reviewed prior to construction and certified after construction.
Pasco County Land Development Code No. 403.6 Fill Ordinance requires permit applications and review for placement of fill greater than five cubic yards on properties.

Funding Source	Prior Funding	FY2022	FY2023	Future Funding	Total Funding
Applicant Share	119,318	325,000	175,000	380,682	1,000,000
District Share	119,318	325,000	175,000	380,682	1,000,000
Total	**238,636**	**650,000**	**350,000**	**761,364**	**2,000,000**

Matching Fund Reduction

☐ Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

Timelines

Floodplain Mapping	7/31/21
Project Development	1/2/23
Project Development	1/31/23
Watershed Evaluation	1/2/24
Watershed Evaluation	1/31/24
Model Development	10/2/24
Model Development	10/31/24
Peer Review	1/2/25
Floodplain Mapping	1/31/25
Public Notification / Governing Board Approval	4/2/25
Approval of Final Deliverables	8/2/25
Peer Review	9/30/25
Peer Review	10/30/25
BMP Alternatives Evaluation	12/31/25
Public Notification / Governing Board Approval	1/31/26
Approval of Final Deliverables	3/31/26
BMP Alternatives Evaluation	4/30/26
Public Notification / Governing Board Approval	7/31/26
Approval of Final Deliverables	9/30/26

The Southwest Florida Water Management District (District) does not discriminate on the basis of disability. This nondiscrimination policy involves every aspect of the District's functions, including access to and participation in the District's programs, services and activities. Anyone requiring reasonable accommodation, or who would like information as to the existence and location of accessible services, activities, and facilities, as provided for in the Americans with Disabilities Act, should contact the Human Resources Office Chief, at 2379 Broad St., Brooksville, FL 34604-6899; telephone (352) 796-7211 or 1-800-423-1476 (FL only), ext. 4747; or email ADACoordinator@WaterMatters.org. If you are hearing or speech impaired, please contact the agency using the Florida Relay Service, 1-800-955-8771 (TDD) or 1-800-955-8770 (Voice). If requested, appropriate auxiliary aids and services will be provided at any public meeting, forum, or event of the District. In the event of a complaint, please follow the grievance procedure located at WaterMatters.org/ADA.