

Coop Funding By Region For FY2019

Northern Region

| Projec | t Project Name | Project Cost |
|--------|--|---------------|
| N873 | WMP - Chassahowitzka River Watershed Management Plan | \$925,000 |
| N891 | WMP - North Citrus Withlacoochee River Watershed Management Plan | \$825,000 |
| N919 | WMP - Little Jones Creek Watershed Management Plan | \$960,000 |
| N951 | Study-WRWSA Regional Water Supply Plan Update | \$300,000 |
| N952 | Springs- Citrus County Old Homosassa West Septic to Sewer Project | \$6,000,000 |
| N956 | SW IMP - Water Quality - Weeki Wachee Springshed Nitrogen Removal Stormwater Retrofits | \$2,000,000 |
| N957 | Springs-Marion County Northwest Regional WWTF Expansion | \$25,950,000 |
| N958 | Conservation- Citrus County Water Sense Labeled Irrigation Controller Installation - Phase 2 | \$67,500 |
| N964 | Springs- Ocala Rainbow/Timberwood Septic to Sewer Project | \$3,316,000 |
| N969 | Restoration - Mechanical Maintenance of Kings Bay Restoration Project | \$650,000 |
| N977 | Reclaimed Water-Citrus County Sugarmill Woods Golf Courses Reclaimed Water Project | \$6,050,000 |
| N981 | SW IMP - Flood Protection - Culbreath Road Area Flood Relief | \$500,000 |
| N983 | Reclaimed Water- Hernando County Airport Reclaimed Water Storage/Pumping/Transmission/ Recharge Project | \$16,000,000 |
| N984 | Springs - Crystal River Indian Waters Septic to Sewer Phase II | \$4,000,000 |
| N985 | Springs- Crystal River Southern Septic to Sewer Project | \$6,500,000 |
| N986 | Study - Citrus County Stormwater Utility Fee Rate & Methodology | \$300,000 |
| N987 | SW IMP - Water Quality - Hunter Springs DRA Modification | \$75,000 |
| N999 | Conservation- Marion County Utilities Toilet Rebate Program - Phase 5 | \$64,000 |
| Q003 | Springs- Marion County Package Wastewater Plant Removal Program-Six Facilities | \$5,956,125 |
| Q017 | Study - Calienta Street Stormwater Improvements Feasibility | \$400,000 |
| Q018 | Conservation-The Villages Rain Sensor Inspection/Replacement Program | \$40,000 |
| Q019 | Springs- Ocala Rainbow/Fox Meadow Septic to Sewer Project | \$4,705,000 |
| Q024 | Springs- Hernando County US19/Hwy50 Septic to Sewer, Districts A and B | \$48,400,000 |
| Q025 | Springs-Ocala Rainbow/Fairfield Village Package Plant Removal Project | \$875,000 |
| Q037 | Springs- Citrus County Cambridge Greens Septic to Sewer | \$6,500,000 |
| Q039 | SW IMP - Water Quality - Rainbow Springs 5th Replat Stormwater Retrofit - CP 73 | \$290,850 |
| Q040 | Conservation- WRWSA Regional Irrigation System Audit Program Phase 5 | \$200,000 |
| Q043 | Springs- Marion County State Road 200 Sewer Forcemain Extension | \$3,736,476 |
| Q044 | Study-Citrus County Septic to Sewer Conversion Feasibility Study | \$400,000 |
| | Region Total | \$145,985,951 |

FY2019 Cooperative Funding Initiative Application Form

| Project Name | WMP | - Chassahowi | tzka River Wat | tershed Manageme | ent Plan | | |
|-----------------------|----------------|----------------|----------------|---------------------|---------------------|-----------------------|------|
| Project Number | N873 | | | | | | |
| Cooperator | Citrus | County | | | | | |
| Department | Public | c Works | | | | | |
| Contact Person | Mark | Schroder | | | | | |
| Address | 3600 | W Sovereign I | Path | | | | |
| City Sate Zip | Lecar | nto, FL 34461 | | | | | |
| Phone # | 352-5 | 27-5443 | | | | | |
| Email | mark. | schroder@citr | usbocc.com | | | | |
| Project Type: | | | | | | | |
| Water Supply | X Water Qu | ality X Flood | Protection | Natural Systems | | | |
| Strategic Initiatives | s: | | | | | | |
| X Water Quality M | aintenance a | and Improveme | ent | Water Quality | Monitoring | | |
| Alternative Water | er Supply | | | Conservation | | | |
| Reclaimed Water | er | | | Regional Water | er Supply Planning | 9 | |
| X Emergency Floo | d Response | | | Floodplain Ma | nagement | | |
| Minimum Flows | and Level E | stablishment a | nd Monitoring | Minimum Flow | s and Levels Rec | overy | |
| Natural Systems | s Conservation | on and Restor | ation | Natural System | ns Identification a | nd Monitoring | |
| Indicate All Counti | es to Benef | it From Proje | ot: | | | | |
| Charlotte X | Citrus | Desoto | Hardee | Hernando | Highlands | Hillsborough | Lake |
| Levy | Manatee | Marion | Pasco | Pinellas | Sarasota | Sumter | Polk |
| Project Description | n/Benefit/Co | st | | | | | |
| Description: | | | | | | | |
| This Watershed Mar | nagement Pl | an Project cov | ers 40.7 squar | e miles in the sout | hwestern portion of | of the County, includ | ling |

Chassahowitzka, Little Chassahowitzka, and parts of Sugarmill Woods. The project area extends west-east from the coast to the center of the County and is dissected by US Hwy 19 and CR 491. The watershed falls predominantly within the Chassahowitzka and Homosassa springsheds as determined by SWFWMD ESRI. TMDLs and BMAPs are currently being developed for the Homosassa and Chassahowitzka Springs and this project will provide critical information regarding water quality improvements for these springsheds. This project is a continuation of the Homosassa River Management Plan which produced a watershed model and floodplain mapping.

The objective of this project is to analyze the watershed to identify and rank flooding and water quality problem areas and to determine where appropriate BMPs can be implemented to reduce the negative impacts associated with these areas. This project addresses the District's Strategic Initiatives of Flood Plain Management and Water Quality and also complements the District's Springs Initiative program. The project will be completed using District GWIS guidelines and analytical methodology. County GIS staff have developed methods to identify structure floor elevations and foot prints and roadway centerlines and areas. Water quality simulation models will be run using the SIMPLE model. Capital Improvement projects resulting from this project will be designed and constructed using the most recent Best Management Practices and technology.

Renefit:

The project includes a surface water resource assessment, water quantity modeling/analysis, water quality analysis (SWRA), establishment of existing level of service (LOS), and a best management practice (BMP) alternative analysis. The SWRA identifies water quality problems which, when addressed, improve the quality of aquifer recharge and availability of cleaner water for potable supply and natural systems. The project lies within the Chassahowitzka and Homosassa Springs springsheds and the results of the SWRA will enhance our understanding of residential septic system and lawn fertilizer nitrate contributions and complement the District's ongoing Springs Initiative. The LOS analysis identifies flood prone areas and LOS deficiencies and quantifies costs associated with each problem area. Final deliverables will include electronic versions of the updated GWIS geodatabase and tables, modeling files, the map atlas, the SIMPLE Model report, the BMP database, and a proposed BMP list with preliminary comments from District. The BMP alternative analysis will provide prioritized conceptual solutions addressing floodplain LOS deficiencies and surface and groundwater quality improvements using a cost/benefit analysis approach.

Cost:

The cost of this Watershed Management Plan, for Phases 1 and 2, comes in at \$22,727 per sq. mile. Tasks associated with this project are expected to start before February1, 2018 and continue through FY22. This is the second year application of four years of funding applications.

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

Citrus County has partnered with the District to study and develop Watershed Management Plans for eight of the County's watersheds. The County has completed the Hunter Springs Water Quality Improvement Project in cooperation with the District. The County has also worked with the District to design and is preparing to construct the Homosassa South Fork Water Quality Improvement Project to improve quality of stormwater entering the Homosassa River. The County sought and received FEMA approval of new Flood Insurance Rate Maps based on basin studies conducted in cooperation with the District. The County is cooperating with the FDEP to develop the Kings Bay/Crystal River, Homosassa Springs and Chassahowitzka Springs Basin Management Action Plans (BMAP) aimed at reducing nutrient loadings within the springsheds. This effort compliments and supports the District's Springs Initiative. Citrus County has adopted floodplain, stormwater ordinances and fertilizer ordinances and is now covered under a NPDES Phase II permit for the county's Municipal Separate Storm Sewer System (MS4). As part of the NPDES permit the County has developed a stormwater education program, and is working on storm drain stenciling and street sweeping programs. The Citrus County Utility Department has successfully implemented a series of water conservation incentive programs that include, a rain sensor rebate program, low flow toilet programs, and irrigation evaluation and audit projects. Other incentive program also provides water conservation information and has Enforcement Officers to enforce watering restrictions set forth by Southwest Florida Water Management District.

| Funding Source | Prior Funding | FY2018 Budget | FY2019 Budget | Future T Funding | otal Funding |
|-----------------|---------------|------------------|------------------|---------------------|--------------|
| Applicant Share | | 100,000 | 150,000 | 212,500 | 462,500 |
| Coastal Rivers | | 100,000 | 150,000 | 212,500 | 462,500 |
| Total | | 200,000 | 300,000 | 425,000 | 925,000 |

Matching Fund Reduction

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

Timelines

Consultant Contract

MilestoneProjected DateExecute Consultant Contract01/31/2018

Project Closeout

MilestoneProjected DateClose Agreement with SWFWMD12/31/2022

Report Preparation

MilestoneProjected DateFinal Report Submitted12/31/2022

SWFWMD Agreement

MilestoneProjected DateSWFWMD Agreement signed by County12/01/2017

Data Collection Assessment:

X Land Survey X Mapping/GIS data

FY2019 Cooperative Funding Initiative Application Form

| Project Name | WMP - North Citrus | Withlacooche | e River Watershed | Management Pla | n | |
|------------------------|-------------------------|----------------|---------------------|----------------------|----------------------|------------|
| Project Number | N891 | | | | | |
| Cooperator | Citrus County | | | | | |
| Department | Public Works | | | | | |
| Contact Person | Mark Schroder | | | | | |
| Address | 3600 W Sovereign I | Path | | | | |
| City Sate Zip | Lecanto, FL 34461 | | | | | |
| Phone # | 352-527-5443 | | | | | |
| Email | mark.schroder@citr | usbocc.com | | | | |
| Project Type: | | | | | | |
| Water Supply X | Water Quality X Flood | Protection | Natural Systems | ; | | |
| Strategic Initiatives: | | | | | | |
| X Water Quality Mair | ntenance and Improvem | ent | Water Quality | Monitoring | | |
| Alternative Water S | Supply | | Conservation | | | |
| Reclaimed Water | | | Regional Wat | er Supply Planning | g | |
| X Emergency Flood I | Response | | Floodplain Ma | anagement | | |
| Minimum Flows an | d Level Establishment a | and Monitoring | Minimum Flov | vs and Levels Rec | covery | |
| Natural Systems C | onservation and Restor | ation | Natural Syste | ms Identification a | nd Monitoring | |
| Indicate All Counties | to Benefit From Proje | ct: | | | | |
| Charlotte X C | itrus Desoto | Hardee | Hernando | Highlands | Hillsborough | Lake |
| Levy M | anatee Marion | Pasco | Pinellas | Sarasota | Sumter | Polk |
| Project Description/E | Benefit/Cost | | | | | |
| Description: | | | | | | |
| This Watershed Manag | gement Plan Project cov | ers 35 square | miles in the north- | central portion of t | he County, including | g parts of |

south Dunnellon, Holder, and Citronelle. The watershed project area extends west-east from the coast to the center of the County and is dissected by US Hwy 41 and CR 491. The watershed falls predominantly within the Crystal River springshed. TMDLs and a BMAPs are currently being developed for the Crystal River Springs and this project will provide critical information regarding water

quality improvements for the springshed.

The objective of this project is to analyze the watershed to identify and rank flooding and water quality problem areas and to determine where appropriate BMPs can be implemented to reduce the negative impacts associated with these areas. This project addresses the District's Strategic Initiatives of Flood Plain Management and Water Quality and also complements the District's Springs Initiative program. The project will be completed using District GWIS guidelines and analytical methodology. County GIS staff has developed methods to identify structure floor elevations and foot prints and roadway centerlines and areas. Water quality simulation models will be run using the SIMPLE model. Capital Improvement projects resulting from this project will be designed and constructed using the most recent Best Management Practices and technology.

Benefit:

The project includes a surface water resource assessment, water quality analysis (SWRA), establishment of existing level of service (LOS), and a best management practice (BMP) alternative analysis. The SWRA identifies water quality problems which, when addressed, improve the quality of aquifer recharge and availability of cleaner water for potable supply and natural systems. The project lies within the Kings Bay/Crystal River springshed and the results of the SWRA will enhance our understanding of residential septic system and lawn fertilizer nitrate contributions and complement the District's ongoing Springs Initiative. The LOS analysis identifies flood prone areas and LOS deficiencies and quantifies costs associated with each problem area.

Final deliverables will include electronic versions of the updated GWIS geodatabase and tables, modeling files, the map atlas, the SIMPLE Model report, the BMP database, and a proposed BMP list with preliminary comments from District. The BMP alternative analysis will provide prioritized conceptual solutions addressing floodplain LOS deficiencies and surface and groundwater quality improvements using a cost/benefit analysis approach.

Cost:

The cost of this Watershed Management Plan, for Phases 1 & 2, comes in at \$23,571 per sq. mile. Tasks associated with this project are expected to start before February 1, 2018 and continue through FY21. This is the second year application of three years of funding applications.

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

Citrus County has partnered with the District to study and develop Watershed Management Plans for eight of the County's watersheds. The County has completed the Hunter Springs Water Quality Improvement Project in cooperation with the District. The County has also worked with the District to design and is preparing to construct the Homosassa South Fork Water Quality Improvement Project to improve quality of stormwater entering the Homosassa River. The County sought and received FEMA approval of new Flood Insurance Rate Maps based on basin studies conducted in cooperation with the District. The County is cooperating with the FDEP to develop the Kings Bay/Crystal River, Homosassa Springs and Chassahowitzka Springs Basin Management Action Plans (BMAP) aimed at reducing nutrient loadings within the springsheds. This effort compliments and supports the District's Springs Initiative. Citrus County has adopted floodplain, stormwater ordinances and fertilizer ordinances and now covered under a NPDES Phase II permit for the county's Municipal Separate Storm Sewer System (MS4). As part of the NPDES permit the County has developed a stormwater education program, and is working on storm drain stenciling and street sweeping programs. The Citrus County Utility Department has successfully implemented a series of water conservation incentive programs that include, a rain sensor rebate program, low flow toilet programs, and irrigation evaluation and audit projects. Other incentive programs include various rebate opportunities in conjunction with the Florida Friendly Landscaping program. The water conservation program also provides water conservation information and has Enforcement Officers to enforce watering restrictions set forth by Southwest Florida Water Management District.

| Funding Source | Prior Funding | FY2018 Budget | FY2019 Budget | Future Funding | Total Funding |
|---------------------|----------------------|------------------|------------------|-------------------|---------------|
| Applicant Share | | 150,000 | 150,000 | 112,500 | 412,500 |
| Withlacoochee River | | 150,000 | 150,000 | 112,500 | 412,500 |
| Total | | 300,000 | 300,000 | 225,000 | 825,000 |

Matching Fund Reduction

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

Timelines

Consultant

MilestoneProjected DateExecute Consultant Contract01/31/2018

Project Closeout

MilestoneProjected DateClose Agreement with SWFWMD12/31/2021

Report Preparation

MilestoneProjected DateFinal Report Submitted12/31/2021

SWFWMD Agreement

MilestoneProjected DateSWFWMD Agreement signed by County12/01/2017

Data Collection Assessment:

X Land Survey X Mapping/GIS data

FY2019 Cooperative Funding Initiative Application Form

| Project Name | WMP - Little Jones Creek Watersh | ed Management Pl | an | | |
|---|-----------------------------------|------------------|--------------------|---------------|------|
| Project Number | N919 | | | | |
| Cooperator | Sumter County BOCC | | | | |
| Department | Public Works Division | | | | |
| Contact Person | Robert Lawler | | | | |
| Address | 319 E. Anderson Ave | | | | |
| City Sate Zip | Bushnell, FL 33513 | | | | |
| Phone # | 352-689-4400 | | | | |
| Email | Robert.LawlerIII@sumtercountyfl.g | OV | | | |
| Project Type: | | | | | |
| Water Supply Wa | ter Quality X Flood Protection | Natural Systems | | | |
| Strategic Initiatives: | | | | | |
| Water Quality Mainter | nance and Improvement | Water Quality N | Monitoring | | |
| Alternative Water Sup | ply | Conservation | | | |
| Reclaimed Water | | Regional Water | r Supply Planning | J | |
| Emergency Flood Res | sponse | X Floodplain Man | agement | | |
| Minimum Flows and L | evel Establishment and Monitoring | Minimum Flows | s and Levels Rec | overy | |
| Natural Systems Cons | servation and Restoration | Natural System | s Identification a | nd Monitoring | |
| Indicate All Counties to | Benefit From Project: | | | | |
| Charlotte Citrus | s Desoto Hardee | Hernando | Highlands | Hillsborough | Lake |
| Levy | atee Marion Pasco | Pinellas | Sarasota | X Sumter | Polk |
| Project Description/Ben Description: | efit/Cost | | | | |

This is a multi-year funded project to perform the Watershed Evaluation and Watershed Management Plan elements of the District's Watershed Management Program (WMP) for the Little Jones Creek Watershed in Sumter County. The project is funded for FY 2018 and work on the Watershed Evaluation is scheduled to be initiated. This funding request is for FY 2019 and a future request is anticipated for FY 2020. The project watershed is 39.8 square miles. A Watershed Management Plan provides a method to evaluate the capacity of a watershed to protect, enhance, and restore water quality and natural systems while achieving flood protection. The Watershed Evaluation element is the collection and organization of detailed information such as land elevation, conveyance features such as ditches, culverts and other stormwater management features that affect how water moves within a watershed. The Watershed Evaluation tasks include the collection of existing data, development of preliminary model features and initiation of formal Peer Review. The information is organized as a geodatabase that defines the watershed's natural conveyance and storage features and stormwater infrastructure. The WatershedEvaluation is the foundation for the Watershed Management Plan, the final element in the Watershed Management Program. TheWatershed Management Plan includes model parameterization, computer modeling, floodplain analysis, Peer Review of floodplain results, public notification, public meeting, Governing Board approval of floodplain results, surface water resource assessment(SWRA), the establishment of a level of service (LOS), and Best Management Practices (BMP) alternative analysis.

Benefit:

The project benefits will be the refinement and updating of floodplains, a comprehensive Geographic Information System (GIS) based inventory of pipes, culverts and conveyances, and a hydraulic model that simulates the system response to varying rainfall events. This tool can be used to assess the LOS for roads and structures. The geodatabase also provides the basis for assessing the SWRA of the watershed. This information is used to develop BMP's to address flooding or water quality concerns. The information is also used in review and approval of development within the watershed. The ability to prevent flooding by identifying floodplains and keeping development out of those areas or constructed above flood levels provides a much greater cost benefit than having to implement BMP's to reduce or eliminate flooding of existing infrastructure. Additionally, having a model allows for the continuous updating of the model as development occurs, and can be used in the planning process to assess future growth and land use changes for not only flood protection but water quality loading, which is vital in ensuring compliance with TotalMaximum Daily Load (TMDL) regulation.

Cost:

The total project cost is \$960,000, split equally between SWFWMD and Sumter County. Project costs and allocation through TaskWork Assignment (TWA) are controlled by SWFWMD which manages the agreement. The allocation through TWAs is based on approved staffing rates and allocated hours to specific tasks, which are closely tied to approved guidelines and specifications standards.

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

Sumter County has in its Comprehensive Plan a water conservation element to protect and manage water resources within the County. This includes criteria for water conservation and water shortage. The County is eligible for emergency relief under the Federal Emergency Management Agency (FEMA) program as it has adopted building guidelines conformant to FEMA requirements for limiting building in flood hazard areas. For instance, all new homes' finished floor elevations are constructed one foot above the 100 year flood elevation. In addition, County codes provide language to protect against development wetlands, seeks preservation of floodplain storage, and protection of aquifer recharge and promotes water conservation, as it references SWFWMD's water conservation and water shortage regulations and guidelines. The County is in cooperation with the Withlacoochee Regional Water Supply Authority (WRWSA) to identify potential sources of water supply. The County has recognized the value of preventive flood protection and has implemented a capital improvement plan (CIP) addressing stormwater issues. This will be used to undertake updating of flood elevations (FEMA Flood Insurance Rate Map) throughout the County. The CIP program relies upon the findings of the WMP. The County has budgeted monies for implementation of BMP's to address existing problem areas.

| Funding Source | Prior Funding | FY2018 Budget | FY2019 Budget | Future Funding | Total Funding |
|-------------------------------|---------------------------|------------------|-------------------|-------------------|---------------|
| Applicant Share | | 160,000 | 160,000 | 160,000 | 480,000 |
| Withlacoochee River | | 160,000 | 160,000 | 160,000 | 480,000 |
| Total | | 320,000 | 320,000 | 320,000 | 960,000 |
| Matching Fund Reduction | | | | | |
| Check here if requesting a re | eduction in matching fund | ds requirement p | oursuant to s.288 | .06561, F.S. | |
| Timelines | | | | | |
| Watershed Evaluation | | | | 12/31/201 | 9 |
| Watershed Management | t Plan | | | 12/31/202 | 1 |
| Data Collection Assessment: | | | | | |
| X Land Survey X Mapping/0 | GIS data | | | | |

FY2019 Cooperative Funding Initiative Application Form

| Project Name | Study-WRWSA Region | onal Water Su | pply Plan Update | | | |
|--|---|--|--|--|--|---|
| Project Number | N951 | | | | | |
| Cooperator | WRWSA | | | | | |
| Department | | | | | | |
| Contact Person | Richard Owen | | | | | |
| Address | 3600 W Sovereign Pa | ath | | | | |
| City Sate Zip | Lecanto, FL 34461 | | | | | |
| Phone # | 352-527-5796 | | | | | |
| Email | richardowen@wrwsa | .org | | | | |
| Project Type: | | | | | | |
| X Water Supply Wa | ter Quality Flood | Protection | Natural Systems | | | |
| Strategic Initiatives: | | | | | | |
| Water Quality Mainter | nance and Improveme | nt | Water Quality I | Monitoring | | |
| Alternative Water Sup | ply | | Conservation | | | |
| Reclaimed Water | | | X Regional Wate | er Supply Planning | 3 | |
| Emergency Flood Res | sponse | | Floodplain Mar | nagement | | |
| Minimum Flows and L | evel Establishment an | d Monitoring | Minimum Flow | s and Levels Rec | overy | |
| Natural Systems Cons | servation and Restorat | ion | Natural System | ns Identification a | nd Monitoring | |
| Indicate All Counties to | Benefit From Project | :: | | | | |
| Charlotte X Citrus | s Desoto | Hardee | X Hernando | Highlands | Hillsborough | Lake |
| Levy | atee X Marion | Pasco | Pinellas | Sarasota | X Sumter | Polk |
| Project Description/Ben | efit/Cost | | | | | |
| Description: | | | | | | |
| The Authority last updated updates its Plan every five 50% co-funding from the | e years and it is propose SWFWMD. e updated water demande WRWSA RWSP will ater use categories; traif future demands that offsets; and recommendations will be based up it is also anticipated that ye model, unless a bey an update of the optice. | nd projections include: updat aditional and a could be offsed ations regard on the most repotential pultter approach ons that were | pdate be initiated in s, evaluation of sou ing population proj alternative water su et through enhance ling the WRWSA F ecent projections of blic supply future c is identified. The u identified in the Au | n FY 2018-19. The contions and plactions; existing a lipply availability; red water conservate developed by the lipply availability and the lipply availability and the lipply available will include the lipply and li | e Authority is again notential water supply and future water den regional groundwate tion efforts; reclaime ork. It is anticipated to Florida Department or a fresh review of water. This update will be | requesting y project nands for r modeling; ed water he of Agriculture d using the ater supply e completed |

Benefit:

Regional water supply planning helps to ensure that adequate water supplies are identified in a timely manner to meet growing water supply needs. By periodically updating the regional water supply plan, the latest, best available information and methodologies can be incorporated into the Plan, such as new water resource investigations, new minimum flows and levels set by the water management districts, and updated water demands estimates and projections. By knowing well in advance what are the most logical water supply sources to meet growing demands and identifying various project options to develop these sources, water resource and supply development can occur in a timely manner. Taking a regional approach to water supply planning helps to avoid competition for limited supplies.

Cost

The proposed budget for the RWSP update is \$300,000, split equally between the Authority and the District.

by the District as it conducts the next SWFWMD RWSP-NPR update.

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

The WRWSA has historically and is currently actively engaged in water conservation within its four county region.

- 1. The WRWSA has a Water Conservation Grants Program and has been co-funding water conservation initiatives since 1999 for its member governments. Comprehensive public supply water conservation programs are being partially co-funded by the Authority with Citrus, Hernando and Marion counties through the Authority's grant program.
- 2. The WRWSA is currently co-funding with the District the Regional Irrigation System Audit Program. This program targets inefficient landscaping practices and irrigation systems for optimization leading to measurable water savings. Education and information is provided by a professional certified irrigation contractor. Participants currently include Citrus, Hernando and Marion counties and several utilities within The Villages in Sumter County, a major water utility in Sumter County. Sumter County does not operate its own water utility. This effort is currently in Phase 4, which is the largest phase to-date and includes enhancements to the program whereby participants can have irrigation system efficiencies implemented.
- 3. The Authority also serves as a facilitator and participant in coordination and collaboration among the various public supply utilities in its region for water conservation and other activities.

The Authority owns the Charles A. Black (CAB) water supply facilities in Citrus County, a major water supply source in the county. The CAB facilities are operated and maintained by Citrus County pursuant to a water supply contract. The Authority maintains a renewal and replacement fund to ensure the CAB facilities are capable of meeting growing water supply demands.

| Funding Source | Prior Funding | FY2018 Budget | FY2019 Budget | Future To | tal Funding |
|--------------------------------|-------------------------|------------------|-------------------|--------------|-------------|
| Applicant Share | | | 150,000 | | 150,000 |
| General Fund-District Wide | | | 150,000 | | 150,000 |
| Total | | | 300,000 | | 300,000 |
| Matching Fund Reduction | | | | | |
| Check here if requesting a red | uction in matching fund | ls requirement p | ursuant to s.288. | .06561, F.S. | |
| Timelines | - | | | | |
| April 2018 – April 2019 | | | | | |
| Milestone | | | | Projected Da | te |
| Complete Data Collection | & Analysis | | | 04/30/2019 | |
| April 2018 – May 2019 | | | | | |
| Milestone | | | | Projected Da | te |
| Complete Draft Report | | | | 05/28/2019 | |
| June – August 2019 | | | | | |
| Milestone | | | | Projected Da | te |
| Final Report | | | | 09/30/2019 | |
| October 2017 - March 2018 | | | | | |
| Milestone | | | | Projected Da | te |

Select Consultant Data Collection Assessment:

X Other data collection: Updated water use estimates and projections

03/21/2018

FY2019 Cooperative Funding Initiative Application Form

| Project Name | Sprin | igs- Citrus Cou | nty Old Homos | sassa West Septic | to Sewer Project | | |
|----------------------------------|-----------------|-------------------|------------------|---------------------|---------------------|----------------------|--------------|
| Project Number | N952 | 2 | | | | | |
| Cooperator | Citru | s County | | | | | |
| Department | Oper | ations And Pro | jects | | | | |
| Contact Person | Chris | tina Malmberg | | | | | |
| Address | 3600 | W. Sovereign | Path | | | | |
| City Sate Zip | Leca | nto, FL 344619 | 014 | | | | |
| Phone # | 352- | 527-7616 | | | | | |
| Email | Chris | tina.Malmberg | @citrusbocc.co | om | | | |
| Project Type: | | | | | | | |
| Water Supply | X Water Qu | uality Flood | Protection | Natural Systems | ; | | |
| Strategic Initiativ | /es: | | | | | | |
| X Water Quality | Maintenance | and Improveme | ent | Water Quality | Monitoring | | |
| Alternative Wa | ater Supply | | | Conservation | | | |
| Reclaimed Wa | ater | | | Regional Water | er Supply Plannin | g | |
| Emergency F | lood Response | е | | Floodplain Ma | anagement | | |
| Minimum Flov | vs and Level E | establishment a | nd Monitoring | Minimum Flow | vs and Levels Rec | covery | |
| Natural Syste | ms Conservat | ion and Restora | ation | Natural System | ms Identification a | and Monitoring | |
| Indicate All Cour | nties to Bene | fit From Proje | ct: | | | | |
| Charlotte | X Citrus | Desoto | Hardee | Hernando | Highlands | Hillsborough | Lake |
| Levy | Manatee | Marion | Pasco | Pinellas | Sarasota | Sumter | Polk |
| Project Descript Description: | ion/Benefit/C | ost | | | | | |
| This project aligns | s with the Dist | rict's Northern F | Region Prioritie | es and Objectives f | or Springs and W | ater Supply. The pro | ject consist |

of the connection of existing residential dwelling unit septic systems adjacent to the Homosassa River to Citrus County's central wastewater collection system. The construction will include installation of approximately 10,000 linear feet of sewer line from the existing force main to resident's lot lines and any associated components which many include lift station(s) and grinder pump stations. The County's requirements will then result in the connection of up to 218 existing septic tanks to the existing force main located in downtown Homosassa. The County has a mandatory connection ordinance in place (Citrus County Code of Ordinances, Part II, Chapter 42, Article V - Mandatory Sewer System Connection). The project will result in an estimated TN load reduction of 4,750 lb/yr. This project will also increase the amount of reclaimed water available for reuse.

Benefit:

The resource benefit of the water quality project will allow for the reduction of pollutant loads to Homosassa River/springshed, a SWIM priority water body by an estimated 4,750 lbs/yr TN. This project will compel the connection of up to 218 septic tanks that are along the Homosassa River, a first magnitude spring. The County has a mandatory connection ordinance in place (Citrus County Code of Ordinances, Part II, Chapter 42, Article V – Mandatory Sewer System Connection) that will allow for the reduction goal set forth by this project. Interconnecting septic tanks into a central wastewater collection system will not only alleviate the nutrient discharge to the Homosassa River and the Gulf of Mexico, but will increase the production of additional reclaimed water for reuse, thus satisfying the goals set forth by the Springs Initiative Plan. The availability of reuse, made possible by the Old Homosassa West Sewer project, will decrease the amount of groundwater pumpage in the springshed placing the County in a better position to achieve water conservation goals. Additionally, the proposed project with help satisfy the goals of the TMDL limits, which is in draft form, and the Basin Management Action Plan that has been established for the Homosassa Springshed group.Installation of approximately 10,000 feet of sewer line and pump station(s) to residents' lot lines for a fully operational municipal sanitary sewer system that will allow for the connection of approximately 218 residences. The upgrade would result in an estimated average nitrogen reduction of 4,750 lb/yr of total nitrogen, or 13 lbs of nitrogen per day (4,750 lbs annually) to the springshed. Over a 20-year period, this nitrogen reduction cost-effectiveness equals \$55 per lb. of nitrogen (Project total = \$5,250,000).

Cost:

The septic to sewer project would cost an estimated \$5,250,000. Costs include \$250,000 for engineering (design, bidding and construction administration), \$5,000,000 for construction.

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

Citrus County Water Resources Department has successfully implemented water conservation incentive programs including rain sensor rebates, low flow toilet programs and the irrigation evaluation and audit project. Other incentive programs include various rebate opportunities in conjunction with the Florida Yards and Neighborhoods programs. The water conservation program also provides water conservation information through bill inserts and information provided at the Citrus County Water Resources office. Citrus County Water Conservation division is charged with enforcing the watering restrictions as set forth by Southwest Florida Water Management District, and has issued citations and gone to Court over violations.

Citrus County has adopted a Floodplain Ordinance as required to participate in the National Flood Insurance Program (NFIP). The regulations are part of the Citrus County Land Development Code. The floodplain regulations are contained in Section 4160 "Floodplain Protection". All development is required to be in compliance with this Section.

| Funding Source | Prior Funding | FY2018 Budget | FY2019 Budget | Future Funding | Total Funding |
|-------------------------|---------------|------------------|------------------|-------------------|---------------|
| Applicant Share | | | 1,264,400 | | 1,264,400 |
| FDEP | | | 3,000,000 | | 3,000,000 |
| Legislation | | | 235,600 | | 235,600 |
| Withlacoochee River | | | 1,500,000 | | 1,500,000 |
| Total | | | 6,000,000 | | 6,000,000 |
| Matching Fund Poduction | | | | | |

Matching Fund Reduction

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

Timelines

| Design and Permitting | 08/01/2019 |
|-----------------------|------------|
| Invitation to Bid | 11/20/2019 |
| Construction NTP | 12/30/2019 |
| Construction | 06/30/2021 |

Data Collection Assessment:

FY2019 Cooperative Funding Initiative Application Form

| Project Name | SW IMP - Water Quality - Weeki Wachee Springshed Nitrogen Removal Stormwater Retrofits | | | | |
|--------------------------|--|-----------------|---------------------|---------------|------|
| Project Number | N956 | | | | |
| Cooperator | Hernando County | | | | |
| Department | Public Works | | | | |
| Contact Person | Clay Black | | | | |
| Address | 1525 E Jefferson St | | | | |
| City Sate Zip | Brooksville, FL 34601 | | | | |
| Phone # | 352-754-4062 ext17012 | | | | |
| Email | CBlack@co.hernando.fl.us | | | | |
| Project Type: | | | | | |
| Water Supply X Wa | ter Quality Flood Protection | Natural Systems | | | |
| Strategic Initiatives: | | | | | |
| X Water Quality Mainten | ance and Improvement | Water Quality I | Monitoring | | |
| Alternative Water Supp | ply | Conservation | | | |
| Reclaimed Water | | Regional Wate | r Supply Planning | 9 | |
| Emergency Flood Res | ponse | Floodplain Mar | nagement | | |
| Minimum Flows and Lo | evel Establishment and Monitoring | Minimum Flows | s and Levels Rec | overy | |
| Natural Systems Cons | servation and Restoration | Natural System | ns Identification a | nd Monitoring | |
| Indicate All Counties to | Benefit From Project: | | | | |
| Charlotte Citrus | Desoto Hardee | X Hernando | Highlands | Hillsborough | Lake |
| Levy Mana | atee Marion Pasco | Pinellas | Sarasota | Sumter | Polk |
| Project Description/Bend | efit/Cost | | | | |
| Description: | | | | | |

The County proposes to reduce nitrogen inputs into Weeki Wachee Spring by retro-fitting ten (10) existing urban drainage retention areas with denitrification cells utilizing biosorption activated media (BAM). All of the sites are within three miles of the headspring and are within the BMAP delineated Primary Focus Area. The project is anticipated to remove 700 lbs of nitrogen from the system annually and will contribute to the TDML reductions required by the Weeki Wachee BMAP. This project improves water quality and reduces nutrients entering the Weeki Wachee Springshed groundwater regime. The close proximity of these projects to the headspring means that nitrogen reductions will be realized immediately and will continue to offset legacy loads arriving from distant up gradient areas. Hernando County and the Southwest Florida recently completed a Surface Water Resource Assessment for the Weeki Wachee Springshed. The Spatially Integrated Model for Pollutant Loading Estimates (SIMPLE) computer program model was used to calculate the amount of pollutants being discharged into the groundwater via surface water runoff, infiltration, and percolation. The SIMPLE model indicates total nitrogen loading from the urbanized areas within the Priority Focus Area averaged 2 lbs/acre/year. The model identified significant sources of pollutant loading and the results were used to prioritize areas of interest. County staff developed ten conceptual DRA retrofit projects and presented them to the Southwest Florida Water Management District (SWFWMD) for preliminary review. SWFWMD indicated the design concepts and locations were acceptable and could qualify for Environmental Resource Permit issuance once final plans were submitted. The County must now complete engineering design and bid construction of the projects. Once funding is secured the project is expected to be completed within 24 months. Year one of this proposal includes complete design plans and permitting for the storm water improvements providing enhance water quality treatment. This includes complete preliminary planning, civil engineering site design, all necessary survey work, all necessary geo-technical work, all required environmental and archaeological studies, and applicable permits from the Southwest Florida Water Management District, the Florida Department of Environmental Protection, and the US Army Corps of Engineers. Design fees are estimated to be \$250,000. Year two of this proposal includes construction of the DRA retrofits. Construction costs are estimated to be \$1,750,000.

Benefit:

The project is anticipated to remove 700 lbs of nitrogen from the system annually and will contribute to the TDML reductions required by the Weeki Wachee BMAP. This project improves water quality and reduces nutrients entering the Weeki Wachee Springshed groundwater regime. The close proximity of these projects to the headspring means that nitrogen reductions will be realized immediately and will continue to offset legacy loads arriving from distant up gradient areas.

Cost:

Year one design fees are estimated to be \$250,000 and year two construction costs are estimated to be \$1,750,000 giving a total project cost of \$2,000,000. The estimated 20 year cost per lb of nitrogen removed is \$143. More exact figures will be developed during the design process as contributing areas and treatment volumes are evaluated by professional staff.

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

Hernando County has partnered with the District to study and develop Watershed Management Plans for 22 watersheds throughout the County. The County designed and constructed the Peck Sink Stormwater Project, the South Brooksville Dauson Property Stormwater Project, and the BMP 7 Russell Street Project in cooperation with the District and is presently working with the District to implement the BMP 6 Josephine Street Project and the Rogers Park Stormwater Retrofit Project to improve water quality within the Weekiwachee River. The County has a dedicated stormwater funding mechanism in the form of a MSTU that assures funding will be available to implement approved projects.

Hernando County implemented a floodplain ordinance in 1986 and signed a joint Flood Protection Coordination Agreement with the District in September 2000. The County sought and received FEMA approval of new Flood Insurance Rate Maps (FIRM) on February 2, 2012 based on basin studies conducted in cooperation with the District. The County is working with the FDEP to develop the Weekiwachee Spring Basin Management Action Plan (BMAP) aimed at reducing nutrient loadings within that springshed. This effort compliments and supports the District's Springs Initiative. Hernando County has instituted a series of public meetings seeking citizen input regarding proposed water management improvements in the community.

Hernando County is covered under a NPDES Phase II MS4 permit and the County adopted a Stormwater Ordinance addressing water quality in June 2006. The County has recently instituted several measures under it's MS4 permit to improve water quality within the community including a stormwater education program (2003), a stormwater utility (2006), a pet waste ordinance (2012), a storm drain stenciling program (2013), a fertilizer ordinance (2013), a street sweeping program (2014), and a water quality testing and monitoring program (2014).

The Hernando County Utility Department has successfully implemented a series of water conservation incentive programs that include, a rain sensor rebate program, low flow toilet programs (2003-2012) and irrigation evaluation and audit projects. Other incentive programs include various rebate opportunities in conjunction with the Florida Friendly Landscaping program. The water conservation program also provides water conservation information in their Hernando County Water Awareness Series and Groundwater Guardians program, through bill inserts and information provided at each HCUD office.

Hernando County Code Enforcement Officers enforce watering restrictions set forth by Southwest Florida Water Management District and the more stringent regulations implemented by Hernando County Board of County Commissioners. Code Enforcement Officers also inspect construction sites and stormwater management systems for compliance with the water quality provisions of the County's NPDES MS4 permit.

| Funding Source | Prior Funding | FY2018 Budget | FY2019 Budget | Future Funding | Total Funding |
|--------------------------------|-------------------------------------|---------------------|------------------|-------------------|---------------|
| Applicant Share | | J | 125,000 | 875,000 | 1,000,000 |
| Coastal Rivers | | | 125,000 | 875,000 | 1,000,000 |
| Total | | | 250,000 | 1,750,000 | 2,000,000 |
| Matching Fund Reduction | | | | | |
| Check here if requesting a re | duction in matching fund | ds requirement p | ursuant to s.288 | .06561, F.S. | |
| Timelines | | | | | |
| Design Consultant Selection N | Nov 1, 2018 - Jan 31, 2 | 019 | | | |
| Milestone | | | | Projected | l Date |
| Design Contract Signed | | | | 01/31/201 | 9 |
| Performance of Design Contra | act Feb 1 2019 - Aug 3 [,] | 1, 2019 | | | |
| Milestone | | | | Projected | l Date |
| Construction Plans and F | 9 ' | complete 08/31/2019 | | | 9 |
| Plan Review and Acceptance | Sept 1, 2019 - Sept 30, | 2019 | | | |
| Milestone | | | | Projected | |
| Construction Plans Accep | oted | | | 09/30/201 | 9 |
| Purchasing Contract Bid Proc | ess Oct 1, 2019 - Dec | 31, 2019 | | | |
| Milestone | | | | Projected | l Date |
| Award Construction Cont | ract | | | 12/31/201 | 9 |
| Retrofit Construction Jan 1, 2 | 020 - Sept 30, 2020 | | | | |
| Milestone | | | | Projected | l Date |
| Project Complete | | | | 08/30/202 | 0 |
| Data Collection Assessment: | | | | | |
| X Groundwater or Surface Wat | ter Level measurements | X Land Surve | _Э у | | |

FY2019 Cooperative Funding Initiative Application Form

| Project Name | Springs-Marion County Northwest Regional WWTF Expansion | | | | | |
|--|--|--|--|--|--|--|
| Project Number | N957 | | | | | |
| Cooperator | Marion County | | | | | |
| Department | Marion County Utilities Department | | | | | |
| Contact Person | Kevin Vickers | | | | | |
| Address City Sate Zip | 11800 S Us Hwy 441 Belleview, FL 34420 | | | | | |
| Phone # | 352-307-4624 | | | | | |
| Email | Kevin.Vickers@marioncountyfl.org | | | | | |
| Project Type: | . to this to the total type of the type of the total type of the total type of the type of type of the type of typ | | | | | |
| | ter Quality Flood Protection Natural Systems | | | | | |
| Strategic Initiatives: | | | | | | |
| X Water Quality Mainten | ance and Improvement Water Quality Monitoring | | | | | |
| Alternative Water Sup | Onservation | | | | | |
| X Reclaimed Water | Regional Water Supply Planning | | | | | |
| Emergency Flood Res | ponse Floodplain Management | | | | | |
| Minimum Flows and L | evel Establishment and Monitoring Minimum Flows and Levels Recovery | | | | | |
| Natural Systems Cons | ervation and Restoration Natural Systems Identification and Monitoring | | | | | |
| Indicate All Counties to | Benefit From Project: | | | | | |
| Charlotte Citrus | Desoto Hardee Hernando Highlands Hillsborough Lake | | | | | |
| Levy Mana | tee X Marion Pasco Pinellas Sarasota Sumter Polk | | | | | |
| Project Description/Bend | efit/Cost | | | | | |
| Description: | | | | | | |
| wastewater treatment and 0.675 MGD oxidation ditches, a 0.500 retro-fitting the existing sa basins to 2.00 MGD, cons WAS pumping system, ne existing 0.200 MGD plant water and would continue nitrogen (TN). The new facoxygen demand (BOD), 5 to the springshed. The Couattached for reference). The wastewater plant removals | Vastewater Treatment Facility (WWTF) expansion project is an initiative by the County to improve expand the capacity at one of the County's existing WWTFs. This project consists of constructing a new with biological nutrient removal, two 0.750 MGD clarifiers, two flow splitting structures for future MG equalization basin, new headworks and screening structure, rehabilitation of the existing lift station, and filter structure with disc filters with 2.00 MGD capacity, expansion of the existing chlorine contact tructing a new dewatering area for the County to bring in their existing mobile centrifuge unit, new RAS/w MCC room, new automatic generator, new effluent pump station, and associated yard piping. The would be retrofitted into an aerobic digester or a sludge holding tank. This facility produces reclaimed with this expansion. The existing facility currently treats to an average 48.6 mg/L of Nitrogen as total cility will be designed to treat to advanced water treatment (AWT) standards of 5 mg/L of biochemical mg/L of total suspended solids (TSS), 3 mg/L of TN. This will result in a net decrease in nitrogen loading antly has completed an alternatives analysis for expanding and improving this facility (a copy of which is ne increased capacity at the WWTF will allow Marion County to move forward and accomplish package and septic to sewer initiatives in the area. The County will be moving forward with procuring design 2018 with construction anticipated to begin in FY 2019 or FY 2020. | | | | | |
| Benefit: | | | | | | |
| daily loading (TMDL) and facility at the permitted cap gallons of wastewater per pounds per year. Therefor County is experiencing grounds and the second sec | trient loading to the Rainbow Springs springshed. The springshed has an established total maximum adopted basin management action plan (BMAP) as of December 2015. The nitrogen loading from the pacity of 200,000 gallons per day is approximately 29,595 pounds per year. Assuming we treat 200,000 day (no growth in the springshed) the nitrogen loading for the improved facility will be about 1,828 be the overall anticipated reduction of total nitrogen will be 27,767 pounds per year. This area of the bowth from development, so the actual benefit to the springshed should increase over time. | | | | | |
| Cost: | | | | | | |
| for State Springs Funding | WWTF expansion and nutrient removal improvements is \$17,300,000. Marion County is also applying (as shown in the Funding Table). The County acknowledges that if State Springs Funding is awarded, Cost Share Funding will be reduced as well as the County's contributing match. | | | | | |
| Describe your compleme | entary efforts in developing, implementing and enforcing water conservation, water quality and | | | | | |

Future Total Funding **Prior Funding** Funding **Budget** Budget

FY2019

In 2013, the Marion County Land Development Code (LDC) was modified to required WWTFs to meet the following annual average reclaimed water limitation for total nitrogen by 2019: (a) 3.0 mg/L for facilities having a design average daily flow (DADF) equal to or greater than 100,000 gallons per day; or (b) 6.0 mg/L for facilities having a DADF less than 100,000 gallons per day.

FY2018

flood protection ordinances.

Funding Source

| Applicant Share | 2,000,000 | 2,000,000 | 4,650,000 | 8,650,000 | | |
|--|-----------|-----------|------------|------------|--|--|
| State Springs Funding | | | 8,650,000 | 8,650,000 | | |
| Withlacoochee River | | | 8,650,000 | 8,650,000 | | |
| Total | 2,000,000 | 2,000,000 | 21,950,000 | 25,950,000 | | |
| Matching Fund Reduction | | | | | | |
| Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S. | | | | | | |
| Timelines | | | | | | |

Timelines

1.Study/Feasibility

MilestoneProjected DateAlternatives Analysis Study10/09/2017

2.Design Services Procurement

MilestoneProjected DateAdvertise Design Services RFQ12/01/2017Design Services RFQ Review and Selection02/01/2018Design Services Negotiation and Contract04/01/2018

3.Design

 Milestone
 Projected Date

 Preliminary Engineering Report
 07/01/2018

 30% Design
 09/01/2018

 60% Design
 11/01/2018

 90% Design (includes draft RFB)
 01/01/2019

 Proposed Final Design (includes final RFB)
 03/01/2019

 District Verifications
 03/15/2019

4.RFB

MilestoneProjected DateRFB Advertisment04/15/2019RFB Evaluation and Award06/15/2019Notice to Proceed to Contractor07/01/2019

5.Construction

MilestoneProjected DateCommence Construction08/01/2019Substantial Completion12/31/2020Construction Complete02/28/2021

Data Collection Assessment:

X Land Survey X Other data collection: Discharge Monitoring Reports

FY2019 Cooperative Funding Initiative Application Form

| Project Name | Conservation- Citrus County Wate | er Sense Labeled Irriga | ation Controller | Installation - Phase | 2 |
|---|--|--|--|---|---|
| Project Number | N958 | | | | |
| Cooperator | Citrus County | | | | |
| Department | Water Resources | | | | |
| Contact Person | Debra Burden | | | | |
| Address | 3600 W Sovereign Path, Ste 202 | | | | |
| City Sate Zip | Lecanto, FL 34661 | | | | |
| Phone # | 352-527-7684 | | | | |
| Email | Debra.Burden@citrusbocc.com | | | | |
| Project Type: | | | | | |
| , _ | Water Quality Flood Protection | Natural Systems | | | |
| Strategic Initiatives: | | | | | |
| Water Quality Main | ntenance and Improvement | Water Quality Mo | nitoring | | |
| Alternative Water | Supply | X Conservation | | | |
| Reclaimed Water | | Regional Water S | Supply Planning | 9 | |
| Emergency Flood | Response | Floodplain Manag | gement | | |
| Minimum Flows ar | nd Level Establishment and Monitoring | Minimum Flows a | and Levels Rec | overy | |
| Natural Systems C | Conservation and Restoration | Natural Systems | Identification a | nd Monitoring | |
| Indicate All Counties | to Benefit From Project: | | | | |
| Charlotte X C | itrus Desoto Hardee | Hernando | Highlands | Hillsborough | Lake |
| Levy N | Marion Pasco | Pinellas | Sarasota | Sumter | Polk |
| Project Description/E | Benefit/Cost | | | | |
| Description: | | | | | |
| dwellings that used an data, Citrus County Ut Project. Each Project sirrigation system is conthe new equipment an success of the program and post-water use diparticipants. | conservation program that will incentive average of 30 thousand gallons of ware tilities provides service to more than 60 site will be pre-inspected to verify the ennected to CCU's water supply. After the different the controller will be set in the process m and the customer's satisfaction with that for each participant. Additionally, the | ter per month for a 12- 0 qualifying customers xisting controller is not ne qualifying product is ss. A post-installation of the new controller. CC | -month period. s. These accou t already a WS s installed, hom customer surve U will provide t | Based on 2015 and nts will be the focus labeled product and neowners will be give by will be used to que the District with 12 m | 2016 billing of the I the inground on a tutorial oery the conths pre- |
| Benefit: | | VEO ODD I O OCC 47 | | . 6.0 | |
| used to calculate savirAverage water use pEPA estimates avera | ce water savings of approximately 16,6 ngs: er account (12-months billing data of 6 age 4-person family use = 400 GPD use indoors (400 x 70%) = 280 GPD | | - | - | ogy was |

- Average per person indoor water use (280 / 4 persons) = 70 GPD
- Citrus County indoor water use (PPH average of 3 WUP service areas) (70 GPD x 2.22 PPH) = 155.17 GPD
- Average outdoor water use of participants (1,265.70 155.17) = 1,110.53 GPD
- ET Controller savings per day (ET controller research shows 18% to 32% reduction in irrigation use. To be conservative 20% was assumed.) $(1,111.70 \times 20\%) = 222.11 \text{ GPD}$
- # of implementations = 75
- Project gallons per day savings (222.11 x # implementations) =16,658 GPD
- Annual Project water savings (daily savings x 365) = 6,080,170 GPD

Cost:

The total eligible cost of the project is \$33,750. Citrus County is requesting 50% of project cost reimbursement for a total of \$16,875. The County is proposing its match be equally split between the County and the Withlacoochee Regional Water Supply Authority (WRWSA). Water Sense labeled irrigation controller product and installation cost:

Quantity = 75 Cost Per = \$450 Total = \$33,750.

County (25%) = \$8,437.50

WRWSA (25%) = \$8,437.50

District = (50%) \$16,875.

The Project's estimated cost benefit ratio is \$1.35 per thousand gallons (5 years at 8% interest).

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

Citrus County Utilities addresses outdoor water use through several initiatives and identifies each within its water conservation plan. This will be Phase 2 of the Water Sense Labeled Irrigation Controller Installation program. Other efforts closely related to the proposed CFI project are the WS labeled irrigation controller account credit program. In 2009, the County began the controller account credit initiative by incentivizing the replacement of old mechanical irrigation controllers with smart models. However, determining which controllers qualified for the incentive was challenging. In 2014, the program adopted WS labeling as a qualifying standard. Water Sense labeled irrigation controllers use local weather and landscape conditions to tailor watering schedules to each site, which better match plants' water needs. The WS label has provided assurance to customers and county staff alike that the installed controller is a water-saving product. In the three years since incorporating the WS label standard, the program has continued to grow. The ongoing program differs from the proposed CFI, as it is an account credit available to all customers regardless of monthly water use. Another complimentary effort CCU offers its customers is an irrigation check that provides a personalized walk through of the irrigation system, rain sensor test, and irrigation controller tutorial. The training empowers customers to conduct routine maintenance of the irrigation system. During the sessions, staff also provides water-saving literature such as the current water restrictions, Florida-Friendly Landscaping™, micro-irrigation, springs protection and proper fertilization tips. Furthermore, homeowners are provided with a rebate application for replacing a rain sensor found non-functioning and to encourage upgrading to a Water Sense labeled irrigation controller, when appropriate Citrus County Utilities enforces Year-round Water Conservation Measures and Water Shortage Orders, per FAC 40D, for all properties within its service territory. Irrigating during or after a significant rain event is most often an indicator that a functioning rain sensor is not present, as required by F.S. 373.62. An enforcement letter and rebate application is sent to residents found irrigating under these circumstances. Additionally, CCU distributes rain gauges to its customers at no charge to encourage turning off the irrigation system after sufficient rainfall. CCU makes every effort to contact customers upon viewing irrigation system problems, such as breaks and misaligned sprays. Lastly, Citrus County continues to partner with the WRWSA and the SWFWMD for the Irrigation Evaluation program. The program offers an in-depth evaluation of the customer's irrigation system, and a written report of suggested modifications. In September 2017, Citrus County Utilities completed its portion of the WRWSA Phase 4 Irrigation Evaluation program. Phase 5 of the irrigation evaluation program is anticipated to run simultaneous to the Phase 2WS labeled controller installation project. Citrus County will coordinate closely with the WRWSA to ensure there is no duplication of efforts between the two programs.

| Funding Source | Prior Funding | FY2018 Budget | FY2019 Budget | Future Total Funding |
|-----------------|----------------------|------------------|------------------|----------------------|
| Applicant Share | | 16,875 | 16,875 | 33,750 |
| Coastal Rivers | | 16,875 | 16,875 | 33,750 |
| Total | | 33,750 | 33,750 | 67,500 |

Matching Fund Reduction

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

Timelines

Phase 1: 10/01/2018

MilestoneProjected DateImplementation Period09/30/2019

Phase 2: 11/01/2019

MilestoneProjected DateSavings Analysis10/31/2020

Phase 3: 11/01/2020

MilestoneProjected DateFinal Report12/31/2020

Data Collection Assessment:

FY2019 Cooperative Funding Initiative Application Form Springs- Ocala Rainbow/Timberwood Septic to Sewer Project

| , | | | | ···· j · | | |
|---|---------------------------------------|---------------|-----------------|---------------------|---------------|------|
| Project Number | N964 | | | | | |
| Cooperator | Ocala | | | | | |
| Department | Water Resources | | | | | |
| Contact Person | Rusella Bowes-Johr | nson | | | | |
| Address | 1805 Ne 30th Ave, E | 3ldg 600 | | | | |
| City Sate Zip | Ocala, FL 34470 | | | | | |
| Phone # | 352-351-6772 | | | | | |
| Email | RJohnson@Ocalafl. | org | | | | |
| Project Type: | | | | | | |
| Water Supply X Wa | ater Quality 🔲 Flood | Protection | Natural Systems | | | |
| Strategic Initiatives: | | | | | | |
| X Water Quality Mainter | nance and Improveme | ent | Water Quality | Monitoring | | |
| Alternative Water Sup | Alternative Water Supply Conservation | | | | | |
| Reclaimed Water | claimed Water | | | | | |
| Emergency Flood Res | sponse | | Floodplain Ma | nagement | | |
| Minimum Flows and L | ₋evel Establishment a | nd Monitoring | Minimum Flow | s and Levels Rec | covery | |
| Natural Systems Con | servation and Restora | ation | Natural System | ms Identification a | nd Monitoring | |
| Indicate All Counties to | Benefit From Projec | et: | | | | |
| Charlotte Citru | ıs Desoto | Hardee | Hernando | Highlands | Hillsborough | Lake |
| Levy Mana | atee X Marion | Pasco | Pinellas | Sarasota | Sumter | Polk |
| Project Description/Ben Description: | nefit/Cost | | | | | |

The City of Ocala (COOPERATOR) recognizes the vital ecological and economic importance that Rainbow Springs and the Rainbow River has in the community. These bodies of water are listed as Outstanding Florida Waters and are classified as high priorities in the Surface Water Improvement and Management Plan (SWIM). A basin management action plan is currently being updated. These bodies of water are impaired under FAC 62-303(d) by total nitrogen (TN) as identified in the adopted Total Maximum Daily Load (TMDL). With this in mind, the COOPERATOR has identified the Timberwood Sewer Expansion Project (PROJECT) to help improve the water quality of these impaired water bodies. The primary objective of the PROJECT is to design and construct a sanitary sewer system which will remove from service approximately 180 septic tanks from the associated single family residential lots. The septic tanks contribute to the total nitrogen (TN) impairment of Rainbow Springs and the Rainbow River. The removal of the septic tanks will result in a substantial and measurable reduction in the identified pollutant sources. This is quantified in the project benefit section below.

Benefit:

Project Name

This PROJECT will remove approximately 180 septic tanks from service within the Rainbow Springs BMAP area. The subject parcels lie within the City of Ocala, which has a mandatory connection ordinance in place (Ocala Code of Ordinances, Part II, Chapter 42, Article V - Mandatory Sewer System Connection). It is estimated that each single family residence produces 29.8 lbs of TN per year and each septic tank is able to remove approximately 33% of the TN. This results in a total of approximately 3,594 lbs of TN / year flowing to the Rainbow Springs watershed from the 180 single family lots and associated septic tanks. The City of Ocala WWTP #2 discharges effluent at 3 mg/l or less. If the 45,000 gpd from the 180 residential homes are diverted to WWTP #2 then the discharge of TN is reduced to 500 lbs of TN/Year. The construction of a conveyance system to allow these areas to connect to central sewer will remove 3,094 lbs/ year of total nitrogen from the Rainbow Springs BMAP area.

Cost:

The Timberwood Sewer Expansion Project is estimated to cost \$3,316,000. All of the funding requested is for contracted services or materials; no funding is for salaries. The project is estimated to require approximately 15,000 LF of gravity sewer, 3,000 LF of sewer forcemain, and a regional sewer lift station. Additionally, the existing collection system will need to be evaluated and assessed.

Breakdown of Project Component Costs

The PROJECT is estimated to remove a total of approximately 3,094 lbs of TN / Year. The sewer conveyance system will have an estimated life of 30 years. Therefore, The cost benefit of the projects is \$35.73/ lb of TN removed over the life of the system.

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

The subject parcels lie within the City of Ocala, which has a mandatory connection ordinance in place (Ocala Code of Ordinances, Part II, Chapter 42, Article V - Mandatory Sewer System Connection). The Timberwood Sewer Expansion Project will ultimately be presented to City Council for input and discussion during an advertised public hearing(s).

| Funding Source | Prior Funding | FY2018 Budget | FY2019 Budget | Future Funding | Total Funding | | |
|--|---------------|------------------|------------------|-------------------|---------------|--|--|
| Applicant Share | | | 829,000 | 829,000 | 1,658,000 | | |
| General Fund-District Wide | | | 1,658,000 | | 1,658,000 | | |
| Total | | | 2,487,000 | 829,000 | 3,316,000 | | |
| Matching Fund Reduction | | | | | | | |
| Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S. | | | | | | | |
| Timelines | | | | | | | |

| Funding and Consultant Selection | 03/01/2019 |
|-----------------------------------|------------|
| Design and Permitting | 10/01/2019 |
| Advertise and Invitation to Bid | 01/31/2020 |
| Award and NTP to Contractor | 02/28/2020 |
| Construction & CEI | 09/30/2020 |
| Final Certifications and Closeout | 12/01/2020 |

Data Collection Assessment:

FY2019 Cooperative Funding Initiative Application Form

| Project Name | | Restoration - Mechanical Maintenance of Kings Bay Restoration Project | | | | | |
|---|--|--|---|---|---|--|--|
| Project Number | N969 | On control | | | | | |
| Cooperator Department | Citrus (Public \ | • | | | | | |
| Contact Person | | chroder | | | | | |
| Address | | / Sovereign P | ath | | | | |
| City Sate Zip | | o, FL 34461 | atti | | | | |
| Phone # | 352-52 | • | | | | | |
| Email | | chroder@citru | sbocc.com | | | | |
| Project Type: | | | | | | | |
| Water Supply | Water Qual | ity Flood | Protection X | Natural Systems | | | |
| Strategic Initiatives: | | | | | | | |
| Water Quality Main | ntenance an | nd Improveme | nt | Water Quality I | Monitoring | | |
| Alternative Water | Supply | | | Conservation | | | |
| Reclaimed Water | | | | Regional Wate | r Supply Planning | ı | |
| Emergency Flood | Response | | | Floodplain Mar | nagement | | |
| Minimum Flows ar | nd Level Est | ablishment an | d Monitoring | Minimum Flows | s and Levels Reco | overy | |
| X Natural Systems Conservation and Restoration | | | | | | | |
| Indicate All Counties | to Benefit | From Project | t: | | | | |
| Charlotte X C | itrus | Desoto | Hardee | Hernando | Highlands | Hillsborough | Lake |
| Levy N | lanatee | Marion | Pasco | Pinellas | Sarasota | Sumter | Polk |
| Project Description/E | Benefit/Cos | t | | | | | |
| Description: | | | | | | | |
| The intent of this proposition of the intent of this provide a means to grow. The areas the planted eel grass. | o efficiently | remove veget | ative material | hat has floated/tra | nsported into rest | ored project sites an | d has begun |
| Gator Dredging will profession the restored botton a hydraulic pump on a to vegetative matter as material will be transproperticulates, excess ni material form the water geotube is full, it will be and the geotube will be | om areas. Manage and and suck it ou orted to a spitrogen and are capturing etaken to a | Material will be allowed to free allowed to free at without touc becialized dew most of the phathe vegetative in upland disposition. | removed via dely float to one thing the botton vatering containosphorus. The material and a | iver controlled han, , or multiple, divers m or disturbing the ner. A patented for e container holds a allowing clean wate | d held suction hos. The divers will for planted eel grass mula of polymers geotube which wer to flow back via | se. The hose will be loat above the botton to the removed vege will be added to remill separate the vege gravity to the canal. | attached to m and swim stative nove tative Once the |
| Benefit: | | | | | | | |
| It has been shown thro that contain dense eel Monitoring Report for phenomenon been do While there are many The reasons for less a human trampling, and | grass comp the SCR Pilo cumented it areas/acres algae include | pared to areas ot Project. Col would be diffi of eelgrass ir e damage fron | that do not. The sidering the vocult to not drawn both the Piloton vessel groun | his is also shown in ariety of different e v a direct correlation Phase and 1a the dings, salinity spike | n the below figure environmental con on between eelgra re are areas that I es from tropical ev | taken from the Year ditions that this obse ass density and algae have less abundant ovents, vessel anchor | r 1 erved e mats. eelgrass. r disturbance, |

Cost:

Annual cost is \$650,000.

Funding partners will be Citrus County BOCC, SWFWMD CFI, City of Crystal River.

education, legal enforcement, and plant genotype selection overall canal restoration non-the less has been negatively impacted by these occurrences. Selective vacuuming will enhance current ongoing initiatives and decrease the time for the eelgrass to grow into algae displacing meadows thus creating a self-sustaining restoration.

City of Crystal River will fund \$20,000 per year.

Citrus County will fund \$315,000 per year.

SWFWMD CFI will fund \$315,000 per year.

Data Collection Assessment:

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

Citrus County has partnered with the District to study and develop Watershed Management Plans for eight of the County's watersheds. The County has completed the Hunter Springs Water Quality Improvement Project in cooperation with the District. The County has also worked with the District to design and is preparing to construct the Homosassa South Fork Water Quality Improvement Project to improve quality of stormwater entering the Homosassa River. The County sought and received FEMA approval of new Flood Insurance Rate Maps based on basin studies conducted in cooperation with the District. The County is cooperating with the FDEP to develop the Kings Bay/Crystal River, Homosassa Springs and Chassahowitzka Springs Basin Management Action Plans (BMAP) aimed at reducing nutrient loadings within the springsheds. This effort compliments and supports the District's Springs Initiative. Citrus County has adopted floodplain, stormwater ordinances and fertilizer ordinances and is now covered under a NPDES Phase II permit for the county's Municipal Separate Storm Sewer System (MS4). As part of the NPDES permit the County has developed a stormwater education program, and is working on storm drain stenciling and street sweeping programs. The Citrus County Utility Department has successfully implemented a series of water conservation incentive programs that include, a rain sensor rebate program, low flow toilet programs, and irrigation evaluation and audit projects. Other incentive program also provides water conservation information and has Enforcement Officers to enforce watering restrictions set forth by Southwest Florida Water Management District.

| Funding Source | Prior Funding | FY2018 Budget | FY2019 Budget | Future Total Funding Funding |
|-----------------------------------|------------------------|------------------|-------------------|------------------------------|
| Applicant Share | | | 20,000 | 20,000 |
| Applicant Share | | | 315,000 | 315,000 |
| Coastal Rivers | | | 315,000 | 315,000 |
| Total | | | 650,000 | 650,000 |
| Matching Fund Reduction | | | | |
| Check here if requesting a redu | ction in matching fund | s requirement p | oursuant to s.288 | .06561, F.S. |
| Timelines | | | | |
| Year 1 - Design/Permitting Start | | | | |
| Milestone | | | | Projected Date |
| Design/Permitting Start | | | | 10/01/2019 |
| Year 1 - Restoration Activities S | tart | | | |
| Milestone | | | | Projected Date |
| Year 1 Restoration | | | | 04/01/2020 |

X No data will be collected for this project X Biological (vegetation, benthic, fish, etc.)

FY2019 Cooperative Funding Initiative Application Form

Project Name

flood protection ordinances.

Reclaimed Water-Citrus County Sugarmill Woods Golf Courses Reclaimed Water Project

| Project Number | N977 | | | | | |
|---|---|--|---|---|---|--|
| Cooperator | Citrus County | | | | | |
| Department | Operations And Proje | ects | | | | |
| Contact Person | Christina Malmberg | | | | | |
| Address | 3600 W. Sovereign F | | | | | |
| City Sate Zip | Lecanto, FL 3446190 | 014 | | | | |
| Phone # | 352-527-7616 | . | | | | |
| Email | Christina.Malmberg@ | gcitrusbocc.coi | m | | | |
| Project Type: | _ | | | | | |
| X Water Supply Wa | ater QualityFlood | Protection | Natural Systems | | | |
| Strategic Initiatives: | | | | | | |
| Water Quality Mainter | nance and Improveme | nt | Water Quality | Monitoring | | |
| Alternative Water Sup | pply | | Conservation | | | |
| X Reclaimed Water | | | Regional Wate | er Supply Planning | 9 | |
| Emergency Flood Res | sponse | | Floodplain Mar | nagement | | |
| Minimum Flows and L | Level Establishment ar | nd Monitoring | Minimum Flow | s and Levels Rec | overy | |
| Natural Systems Con | servation and Restora | tion | Natural Systen | ns Identification a | nd Monitoring | |
| Indicate All Counties to | Benefit From Projec | t: | | | | |
| Charlotte X Citru | us Desoto | Hardee | Hernando | Highlands | Hillsborough | Lake |
| Levy Man | atee Marion | Pasco | Pinellas | Sarasota | Sumter | Polk |
| Project Description/Ben | nefit/Cost | | | | | |
| Description: | | | | | | |
| Citrus County's 1.5 million The plant and its service identified as being impair (BMAPs) for both the Cha Regional Water Reclama mg/L total nitrogen. In sup Springsheds, a portion of Project were funded throu | area are contained wit red waters due to high assahowitzka and Hon ation Facility has been pport of the County's e f the design and constr | hin the Chassa nutrient levels. nosassa Spring designed to pro effort to improve ruction costs as | showitzka and Hor The State is curre sheds. In anticipa oduce reclaimed w water quality with sociated with the | mosassa Springshently developing E tion of the BMAP vater meeting the nin the Chassaho | neds, both of which he asin Management A requirements, the Stypical BMAP require witzka and Homosas | nave been ction Plans outhwest ement of 3 sa |
| Benefit: | | | | | | |
| The purpose of the propo so that the high quality re improvements include a c Sugarmill Woods Golf Co irrigation system, and ass | eclaimed water produce one-million gallon grou ourse, four miles of rec | ed at the plant on the storage tank laimed water tr | can be made avail k, a high service p ansmission main t | able for beneficia ump station, a bo to connect from the | I reuse. The necessa oster pump station a se plant site to the go | ary It the Ilf course |
| Water Quantity Benefits: | | | | | | |
| This project would offset | the need for groundwa | iter withdrawals | s for irrigation purp | ooses. | | |
| Cost: | | | | | | |
| The SWRWRF Reclaimed bidding and construction transmission main, and be | administration), \$5,500 | | | | | |

Describe your complementary efforts in developing, implementing and enforcing water conservation, water quality and

Citrus County Water Resources Department has successfully implemented water conservation incentive programs including rain sensor rebates, low flow toilet programs and the irrigation evaluation and audit project. Other incentive programs include various rebate opportunities in conjunction with the Florida Yards and Neighborhoods programs. The water conservation program also provides water conservation information through bill inserts and information provided at the Citrus County Water Resources office. Citrus County Water Conservation division is charged with enforcing the watering restrictions as set forth by Southwest Florida Water Management District, and has issued citations and gone to Court over violations.

Citrus County has adopted a Floodplain Ordinance as required to participate in the National Flood Insurance Program (NFIP). The regulations are part of the Citrus County Land Development Code. The floodplain regulations are contained in Section 4160 "Floodplain Protection". All development is required to be in compliance with this Section.

| Funding Source | Prior Funding | FY2018 Budget | FY2019 Budget | Future Funding | Total Funding |
|---------------------------------|-------------------------|------------------|-------------------|-------------------|---------------|
| Applicant Share | | | 3,025,000 | | 3,025,000 |
| Withlacoochee River | | | 3,025,000 | | 3,025,000 |
| Total | | | 6,050,000 | | 6,050,000 |
| Matching Fund Reduction | | | | | |
| Check here if requesting a redu | uction in matching fund | ds requirement | pursuant to s.288 | .06561, F.S. | |
| Timelines | | | | | |
| Design and Permitting | | | | 08/30/2019 | 9 |
| Bld Advertisement | | | | 10/15/2019 | 9 |
| Bid Opening | | | | 11/20/2019 | 9 |
| Contractor NTP | | | | 12/30/2019 | 9 |
| Construction Completion | | | | 01/30/202 | 1 |

Data Collection Assessment:

FY2019 Cooperative Funding Initiative Application Form

| Project Name | SW IMP - Flood Protection - | Culbre | eath Road Area Flo | od Relief | | |
|--|---|---|--|---|---|--|
| Project Number | N981 | | | | | |
| Cooperator | Hernando County | | | | | |
| Department | Public Works | | | | | |
| Contact Person Address | Clay Black | | | | | |
| City Sate Zip | 1525 E Jefferson St Brooksville, FL 34601 | | | | | |
| Phone # | 352-754-4062 ext17012 | | | | | |
| Email | CBlack@co.hernando.fl.us | | | | | |
| Project Type: | 02.00.100.1101.1100.11100 | | | | | |
| Water Supply Wa | ter Quality X Flood Protecti | ion | Natural Systems | | | |
| Strategic Initiatives: | | | | | | |
| Water Quality Mainter | nance and Improvement | | Water Quality N | Monitoring | | |
| Alternative Water Sup | ply | | Conservation | | | |
| Reclaimed Water | | | Regional Water | r Supply Planning | I | |
| X Emergency Flood Res | sponse | | Floodplain Man | agement | | |
| Minimum Flows and L | evel Establishment and Monit | toring | Minimum Flows | s and Levels Reco | overy | |
| Natural Systems Cons | servation and Restoration | | Natural System | s Identification ar | nd Monitoring | |
| Indicate All Counties to | Benefit From Project: | | | | | |
| Charlotte Citrus | s Desoto Ha | ardee | X Hernando | Highlands | Hillsborough | Lake |
| Levy Mana | atee Marion Pa | asco | Pinellas | Sarasota | Sumter | Polk |
| Project Description/Ben | efit/Cost | | | | | |
| Description: | | | | | | |
| roadway will be designed area. Culbreath Road sen northern Pasco County. Moccurs the road is underwill eliminate road closure recently added this project Water Management Distriacceptable and could quarter. | ign improvements to an existito modern standards, elevate wes as a primary connection blany Hernando residents utilizater for months at a time, necessiand reduce nutrient loading to its 5 year Capital Improvect (SWFWMD) for preliminary lify for Environmental Resour | ed aboved between ze Culb cessitate into the ement For review ree Period between ze | re the floodplain, are the City of Brooks or eath Road for dail ing costly and time the Weeki Wachee Splan. County staff por SWFWMD indication in the country staff por such that is the country staff por such that is the country of the countr | nd provide water of sville and State R by commutes to jo consuming detou gringshed ground resented the projected the design control plans were signal plans were servilled. | quality treatment for tood 52 and Interstate bs in Tampa. When a urs for commuters. The dwater basin. Hernal ect to the Southwest ancepts and locations ubmitted. | the project e 75 in flooding his project ndo County Florida s were |
| | mplete design plans and pern | | | | | |

relief, water quality treatment for untreated pavement, and enhanced traffic safety. This includes complete preliminary planning, civil engineering site design, all necessary survey work, all necessary geotechnical work, all required environmental and archaeological studies, and applicable permits from the Southwest Florida Water Management District, the Florida Department of Environmental Protection, and the US Army Corps of Engineers. Design fees are estimated to be \$500,000.

Benefit:

This proposal includes complete design plans and permitting for roadway and storm water improvements providing roadway flood relief, water quality treatment for untreated pavement, and enhanced traffic safety. Detailed construction costs and benefits will developed by the consultant as part of this project and used in evaluation and selection of the final design.

Design fees are estimated to be \$500,000. Final fees will be negotiated per the County's qualification based procurement policy

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

Hernando County has partnered with the District to study and develop Watershed Management Plans for 22 watersheds throughout the County. The County designed and constructed the Peck Sink Stormwater Project, the South Brooksville Dauson Property Stormwater Project, and the BMP 7 Russell Street Project in cooperation with the District and is presently working with the District to implement the BMP 6 Josephine Street Stormwater Improvement Project in South Brooksville and the Rogers Park Stormwater Retrofit water quality improvement project on the Weekiwachee River. The County has a dedicated stormwater funding mechanism in the form of a MSTU that assures funding will be available to implement approved projects.

Hernando County implemented a floodplain ordinance in 1986 and signed a joint Flood Protection Coordination Agreement with the District in September 2000. The County sought and received FEMA approval of new Flood Insurance Rate Maps (FIRM) on February 2, 2012 based on basin studies conducted in cooperation with the District. The County is working with the FDEP to develop the Weekiwachee Spring Basin Management Action Plan (BMAP) aimed at reducing nutrient loadings within that springshed. This effort compliments and supports the District's Springs Initiative. Hernando County has instituted a series of public meetings seeking citizen input regarding proposed water management improvements in the community.

Hernando County is covered under a NPDES Phase II MS4 permit and the County adopted a Stormwater Ordinance addressing water quality in June 2006. The County has recently instituted several measures under it's MS4 permit to improve water quality within the community including a stormwater education program (2003), a stormwater utility (2006), a pet waste ordinance (2012), a storm drain stenciling program (2013), a fertilizer ordinance (2013), a street sweeping program (2014), and a water quality testing and monitoring program (2014).

The Hernando County Utility Department has successfully implemented a series of water conservation incentive programs that include, a rain sensor rebate program, low flow toilet programs (2003-2012) and irrigation evaluation and audit projects. Other incentive programs include various rebate opportunities in conjunction with the Florida Friendly Landscaping program. The water conservation program also provides water conservation information in their Hernando County Water Awareness Series and Groundwater Guardians program, through bill inserts and information provided at each HCUD office.

Hernando County Code Enforcement Officers enforce watering restrictions set forth by Southwest Florida Water Management District and the more stringent regulations implemented by Hernando County Board of County Commissioners. Code Enforcement Officers also inspect construction sites and stormwater management systems for compliance with the water quality provisions of the County's NPDES MS4 permit.

| Funding Source | Prior Funding | FY2018 Budget | FY2019 Budget | Future Funding | Total Funding |
|---------------------------------|------------------------|------------------|-------------------|-------------------|---------------|
| Applicant Share | | | 250,000 | | 250,000 |
| Coastal Rivers | | | 250,000 | | 250,000 |
| Total | | | 500,000 | | 500,000 |
| Matching Fund Reduction | | | | | |
| Check here if requesting a redu | ction in matching fund | s requirement p | ursuant to s.288. | 06561, F.S. | |
| Timelines | | | | | |
| Design Consultant Selection No | v 1, 2018 - Jan 31, 20 | 19 | | | |
| Milestone | | | | Projected | Date |
| Design Contract Signed | | | 01/31/2019 | | |
| Performance of Design Contract | Feb 1, 2019 - Aug 3 | I, 2019 | | | |
| Milestone | | | | Projected | Date |
| Construction Plans and Per | mitting Complete | | | 08/31/201 | 9 |
| Plan Review and Acceptance Se | pt 1, 2019 - Sept 30, | 2019 | | | |
| Milestone | | | | Projected | Date |
| Construction Plans Accepte | d | | | 09/30/201 | 9 |
| Data Collection Assessment: | | | | | |
| X Groundwater or Surface Water | Level measurements | X Land Surve | у | | |

FY2019 Cooperative Funding Initiative Application Form

| Project Name | Project | ernando Coun | ity Airport Reciaim | ed vvater Storage | /Pumping/Transmiss | ion/Recnarge | |
|--------------------------|-----------------------------|---------------|--------------------------------|---------------------|--------------------|---------------|--|
| Project Number | N983 | | | | | | |
| Cooperator | Hernando County | | | | | | |
| Department | Utilities Department | | | | | | |
| Contact Person | Mark Morgan | | | | | | |
| Address | 15365 Cortez Blvd. | | | | | | |
| City Sate Zip | Brooksville, FL 3461 | 3 | | | | | |
| Phone # | 352-754-4759 | | | | | | |
| Email | MarkM@co.hernand | o.fl.us | | | | | |
| Project Type: | | | | | | | |
| X Water Supply Wa | ater Quality | Protection | Natural Systems | | | | |
| Strategic Initiatives: | | | | | | | |
| Water Quality Mainter | nance and Improveme | ent | Water Quality | Monitoring | | | |
| Alternative Water Sup | pply | | Conservation | | | | |
| X Reclaimed Water | | | Regional Water Supply Planning | | | | |
| Emergency Flood Re | sponse | | Floodplain Management | | | | |
| Minimum Flows and L | evel Establishment a | nd Monitoring | Minimum Flow | s and Levels Rec | covery | | |
| Natural Systems Con | servation and Restora | ition | Natural System | ms Identification a | nd Monitoring | | |
| Indicate All Counties to | Benefit From Project | t: | | | | | |
| Charlotte Citru | s Desoto | Hardee | X Hernando | Highlands | Hillsborough | Lake | |
| Levy Man | atee Marion | Pasco | Pinellas | Sarasota | Sumter | Polk | |
| Project Description/Ben | efit/Cost | | | | | | |
| Description: | | | | | | | |
| The Airport Water Reclan | | | | | | nately 63,100 | |

The Airport Water Reclamation Facility Reclaimed Water Main and Pumping Station will involve constructing approximately 63,100 feet of 16" PVC reclaimed water main, a 3 million gallon ground storage tank, reclaimed water pump station, and advanced filters to achieve the high treatment standard required for reclaimed water use. The 3 million gallon ground storage tank, high service pump station and advanced filters will be constructed at the Airport Water Reclamation Facility. The 16" reclaimed water main construction will be begin at the Airport WRF run south along Andersen Snow Road ROW to County Line Road then west along the northern ROW of County Line Road and then northwest along Cobblestone Drive to tie into the existing 16" reclaimed water main in the Timber Pines Subdivision. See the attached map in the document section of the application. This will provide a reclaimed water main loop from the Airport WRF to the Glen WRF. Project N696 is currently being constructed as the first phase of this loop and will be completed in the summer of 2020.

Benefit

The benefits of constructing a new 16" reclaimed water main from the Airport WRF to the existing 16" reclaimed water main in the Timber Pines Subdivision is the potential for new bulk-use customers along the route to connect in the future and to provide a completion of a loop system that is currently being constructed in the CFI and DEP springs funded project N696. The reclaimed water main loop around western Hernando County from the Airport WRF to the Glen WRF was outlined in the 2009 Hernando County Reclaimed Water Master Plan. The reclaimed water main loop will have a capacity to carry 4.0 MGD of reclaimed water. By having a loop system a more consistent operating pressure can be maintained in the reclaimed water main and more system reliability can be obtained by having two WRFs innerconnected to the reclaimed water main loop.

Cost

Proposed construction cost of the project = \$16 million Proposed benefit is 2.7 MGD of reclaimed water \$16 million / 2.7 MGD = \$5.93/gallon

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

New development is required to install reclaimed water irrigation lines per Hernando County Ordinance, Section 28-560. The ordinance states "Proposed Development in the planning stage, after the adoption of this ordinance, within the unincorporated area of Hernando county shall have a reclaimed water distribution system designed and subsequently installed therein for the current or future irrigation of green areas including all residential, commercial, public and private landscape areas within the development. This section only applies where the development will be connected to district water and wastewater facilities. Hernando County Utilities Department has successfully implemented their water conservation/water resource protection program for over a decade. Conservation programs such as rain sensors installations, irrigation evaluations, low flow toilet replacements, along with innovative and bold education programs have led HCUD to meet Water Use Permit regulatory requirements both in annual gallons of water pumped and per capita requirements. HCUD was the first utility in the Northern Region (of SWFWMD) to establish water

conservation rate structures. HCUD continues to Work closely with Code Enforcement in watering restrictions education and enforcement efforts.

| Funding Source | Prior Funding | FY2018 Budget | FY2019 Budget | Future Funding | Total Funding |
|-------------------------|---------------|------------------|------------------|-------------------|---------------|
| Applicant Share | | | 8,000,000 | | 8,000,000 |
| Withlacoochee River | | | 8,000,000 | | 8,000,000 |
| Total | | | 16,000,000 | | 16,000,000 |
| Matching Fund Reduction | | | | | |

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

Timelines

| Procure Design Professional | 07/09/2019 |
|-----------------------------|------------|
| Finish Design | 07/09/2020 |
| Finish Bid Process | 04/09/2021 |
| Start Construction | 06/09/2021 |
| End Construction | 12/09/2022 |

Data Collection Assessment:

FY2019 Cooperative Funding Initiative Application Form

| Project Name | | gs - Crystal Riv | er Indian Wate | rs Septic to Sewer | Phase II | | | |
|--|---|--|---|---|--|--|---|--|
| Project Number | | N984 | | | | | | |
| Cooperator | - | Crystal River | | | | | | |
| Department Contact Person | | Public Works Beau Keene | | | | | | |
| Address | | w Hwy 19 | | | | | | |
| City Sate Zip | | w riwy 19 al River, FL 344 | 128 | | | | | |
| Phone # | - | 95-4216 | +20 | | | | | |
| Email | | e@crystalriver | fl ora | | | | | |
| Project Type: | DROOM | c c or you an ive | ii.org | | | | | |
| | ater Qua | ality Flood | Protection | Natural Systems | | | | |
| Strategic Initiatives: | | | | • | | | | |
| X Water Quality Mainter | nance a | and Improveme | nt | Water Quality N | Monitoring | | | |
| Alternative Water Sup | ply | | | Conservation | | | | |
| Reclaimed Water | | | | Regional Water | Supply Planning | | | |
| Emergency Flood Res | sponse | | | Floodplain Man | agement | | | |
| Minimum Flows and L | evel Es | stablishment ar | nd Monitoring | Minimum Flows | and Levels Reco | very | | |
| Natural Systems Cons | servatio | n and Restora | tion | Natural System | s Identification and | d Monitoring | | |
| Indicate All Counties to | Benefi | t From Projec | t: | | | | | |
| Charlotte X Citru | s | Desoto | Hardee | Hernando | Highlands | Hillsborough | Lake | |
| Levy Mana | atee | Marion | Pasco | Pinellas | Sarasota | Sumter | Polk | |
| Project Description/Ben | efit/Co | st | | | | | | |
| Description: | | | | | | | | |
| Description: The City of Crystal River (COOPERATOR) recognizes the vital ecological and economic importance that Kings Bay and Crystal River have in the community. These bodies of water are listed as Outstanding Florida Waters and are classified as high priorities in the Surface Water Improvement and Management Plan (SWIM). A basin management action plan is currently under development. These bodies of water are impaired under FAC 62-303(d) by total nitrogen (TN) and total phosphorus (TP) as identified in the adopted Total Maximum Daily Load (TMDL). With this in mind, the City has identified the Indian Waters Phase II project (PROJECT) to help improve the water quality of these impaired water bodies. This project is the second phase of a broader scale project to eliminate septic tanks around Kings Bay. The Indian Waters Phase I was approved for funding in the 2017 cycle and involves the removal of 95 septic tanks and 4 package plants. The phase I and phase II projects are shown on the location map provided with this application. The primary objective of the Indian Waters Phase II project is to design and construct a sanitary sewer system which will remove from service approximately 177 septic tanks from the associated single family residential lots and one septic tank serving a car dealership. The sanitary sewer system will also remove from service a package plant (highlighted in red on the map) which serves an approximate additional 84 single family residential lots and 54 condominiums. The septic tanks and package plant contribute to the TN and TP impairment of Kings Bay and Crystal River by direct discharge of effluent into canals and tributaries which are directly connected to Kings Bay and the Crystal River. The removal of the 178 septic tanks and package plant will result in a substantial and measurable reduction in the identified pollutant sources. This is quantified in the project benefit section below. To reiterate, this project is in addition to the Indian Waters Phase I project that was previously a | | | | | | | | |
| Benefit: | | | | | | | | |
| This project will remove a an approximate additiona waterfront properties which The subject parcels lie with (Citrus County Code of Old It is estimated that each supproximately 33% of the single family lots and assidate per 100 square feet (which yields 3,375 gallons residential unit is assume results in a total of 269 lbs discharge 12 mg/l of TN at the street ment along the water the street wa | I 84 single hare tilthin the rdinance ingle fare TN. The ociated SF) of best per date to ger s of TN/at the per | gle family hom dally connecte unincorporate es, Part II, Chamily residence is results in a septic tanks. Touilding area pay (gpd) of sewnerate 29.8 lbs/year flowing ir ermitted flow or | es and 54 cond do to a tributary do area of Citrus apter 42, Article produces 29.8 total of approximate 64E-6.008 for age flow. This of TN/year and to Kings Bay from 50,000 gpd. A | dominiums. All of the of the Crystal Rive is County, which has it V - Mandatory Se is lbs of TN per year mately 3,534 lbs of serving the car deaper commercial build is approximately 13 the septic system om the car dealers according to the mo | ne existing home s r. s a mandatory cor wer System Conn and each septic t TN/year flowing in alership is estimate ings. The building 3.5 equivalent resinated thip. Additionally, t st recent permit resinated | ites and the packag nnection ordinance in ection). ank is able to remove to Kings Bay from the ed to produce 15 gaths is approximately 22 dential units (ERUs) 133% removal efficient the package plant is senewal for the waste | e plant are n place /e the 177 llons per 2,500 SF). Each ency. This permitted to | |
| treatment plant (WWTP), of 11.5 mg/l of TN. This re | | | | | | | | |

conveyance system to allow these areas to connect to central sewer will result in the removal of approximately 5,303 lbs of TN/

year from the Kings Bay and Crystal River water bodies.

Cost:

The Indian Waters Phase II Sewer Expansion Project is estimated to cost \$4,000,000.00. Please keep in mind that this is in addition to the Indian Waters Phase I project which was awarded funding in the 2017 cycle. The funds for the Phase II sewer expansion project are expected to be expended over two or possibly three fiscal years, depending on the timing of permitting and construction authorizations. All of the funding requested is for contracted services or materials; no funding is for salaries. The project is anticipated to require the preliminary planning to determine which type of sewer system is most economical for the project. Depending on the sewer system, it may be necessary to acquire a parcel of property for a sewer station. The project is estimated to require approximately 25,000 linear feet (LF) of sewer pipe line in addition to the sewer station(s). The project will be designed and constructed in conjunction with the Phase I portion of the Indian Waters project.

Breakdown of Project Component Costs Planning - \$100,000 - Component of City Match Land Acquisition - \$50,000 - Component of City Match Design and Permitting - \$250,000 - Component of City Match CEI - \$400,000 Construction Costs - \$3,200,000

Several past sewer projects that were constructed in similar conditions were used as the basis of the cost estimate. The cost benefit for this project needs to be calculated with the Indian Waters Phase I project included. The reason for this is that the projects will be served by the same collection system. Therefore, the cost of the Indian Waters Phase I project was approved at \$1,000,000 in the FY 2017 funding cycle, and the cost of the Phase II project is estimated to be \$4,000,000 for a total of \$5,000,000. The two projects combined are estimated to remove a total of approximately 7,700 lbs of TN/year. The sewer conveyance system will have an estimated life of 30 years. Therefore, the cost benefit of the projects is \$21.64/ lb of TN removed over the life of the system.

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

The subject parcels lie within the unincorporated area of Citrus County, which has a mandatory connection ordinance in place (Citrus County Code of Ordinances, Part II, Chapter 42, Article V - Mandatory Sewer System Connection).

| Funding Source | Prior Funding | FY2018 Budget | FY2019 Budget | Future Funding | Total Funding |
|----------------------------|---------------|------------------|------------------|-------------------|---------------|
| Applicant Share | | | 1,000,000 | 1,000,000 | 2,000,000 |
| General Fund-District Wide | | | 2,000,000 | | 2,000,000 |
| Total | | | 3,000,000 | 1,000,000 | 4,000,000 |
| | | | | | |

Matching Fund Reduction

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

Timelines

| Funding and Consultant Selection | 03/01/2019 |
|-----------------------------------|------------|
| Design and Permitting | 11/01/2019 |
| Advertise and Invitation to Bid | 01/01/2020 |
| Award to Contractor | 02/28/2020 |
| Construction & CEI | 11/30/2020 |
| Final Certifications and Closeout | 12/15/2020 |

Data Collection Assessment:

FY2019 Cooperative Funding Initiative Application Form

| Project Name | Spring | gs- Crystal Riv | er Southern S | eptic to Sewer Proj | ject | | | |
|----------------------------|--------------|-----------------|---------------|-----------------------|--------------------------------|----------------|------|--|
| Project Number | N985 | | | | | | | |
| Cooperator | Crysta | al River | | | | | | |
| Department | Public | Works | | | | | | |
| Contact Person | Beau | Keene | | | | | | |
| Address | 123 N | lw Hwy 19 | | | | | | |
| City Sate Zip | Crysta | al River, FL 34 | 428 | | | | | |
| Phone # | 352-7 | 95-4216 | | | | | | |
| Email | bkeer | ne@crystalrive | rfl.org | | | | | |
| Project Type: | | | | | | | | |
| Water Supply | Water Qu | ality Flood | Protection [| Natural Systems | | | | |
| Strategic Initiatives | : | | | | | | | |
| X Water Quality Ma | aintenance a | and Improveme | ent | Water Quality | Monitoring | | | |
| Alternative Water | Supply | | | Conservation | | | | |
| Reclaimed Water | r | | | Regional Water | Regional Water Supply Planning | | | |
| Emergency Floor | d Response | | | Floodplain Management | | | | |
| Minimum Flows a | and Level E | stablishment a | nd Monitoring | Minimum Flow | vs and Levels Red | covery | | |
| Natural Systems | Conservation | on and Restora | ation | Natural System | ms Identification a | and Monitoring | | |
| Indicate All Countie | s to Benef | it From Projec | et: | | | | | |
| Charlotte X | Citrus | Desoto | Hardee | Hernando | Highlands | Hillsborough | Lake | |
| Levy | Manatee | Marion | Pasco | Pinellas | Sarasota | Sumter | Polk | |
| Project Description | /Benefit/Co | st | | | | | | |
| Description: | | | | | | | | |
| The City of Crystal R | | | | | | | | |

The City of Crystal River (COOPERATOR) recognizes the vital ecological and economic importance that Kings Bay and Crystal River have in the community. These bodies of water are listed as Outstanding Florida Waters and are classified as high priorities in the Surface Water Improvement and Management Plan (SWIM). A basin management action plan is currently under development. These bodies of water are impaired under FAC 62-303(d) by total nitrogen (TN) and total phosphorus (TP) as identified in the adopted Total Maximum Daily Load (TMDL). The proposed project involves the removal of 722 septic tanks. The project area is shown on the location map provided with this application.

The primary objective of the project is to design and construct a sanitary sewer collection system which will remove from service approximately 706 septic tanks from the associated single family residential lots and 16 commercial businesses. The septic tanks contribute to the TN and TP impairment of Kings Bay and Crystal River by direct discharge of effluent into canals and tributaries which are directly connected to Kings Bay and the Crystal River. The removal of the 722 septic tanks will result in a substantial and measurable reduction in the identified pollutant sources. This is quantified in the project benefit section below.

Benefit

This project will remove approximately 706 residential septic tanks and 16 commercial septic tanks.

The subject parcels lie within the unincorporated area of Citrus County, which has a mandatory connection ordinance in place (Citrus County Code of Ordinances, Part II, Chapter 42, Article V - Mandatory Sewer System Connection).

It is estimated that each single family residence produces 29.8 lbs of TN/year and each septic tank is able to remove approximately 33% of the TN. This results in a total of approximately 14,096 lbs of TN/year flowing into Kings Bay from the 706 residential septic tanks. The septic tanks serving the commercial properties are estimated to produce 15 gallons per day per 100 square feet (SF) of building area per 64E-6.008 for commercial buildings. The buildings total are approximately 115,000 SF which yields 17,250 gallons per day (gpd) of sewage flow. This is approximately 69 equivalent residential units (ERUs). Each residential unit is assumed to generate 29.8 lbs of TN/year and the septic system has an estimated 33% removal efficiency. This results in a total of 1,377 lbs of TN/year flowing into Kings Bay from the commercial septic tanks. Therefore, construction of a conveyance system to allow these areas to connect to central sewer will result in the removal of approximately 15,473 lbs of TN/year from the Kings Bay and Crystal River water bodies.

Cost

The project is estimated to cost \$6,500,000. All of the funding requested is for contracted services or materials; no funding is for salaries. The project is anticipated to require the preliminary planning to determine which type of sewer system is most economical for the project. Depending on the sewer system, it may be necessary to acquire a parcel of property for a sewer station. The project is estimated to require approximately 33,000 LF of sewer pipe line in addition to 5 sewer lift station(s). Breakdown of Project Component Costs

Planning - \$200,000 / Design and Permitting - \$500,000 / CEI - \$500,000 / Construction Costs - \$5,300,000 Several past sewer projects that were constructed in similar conditions were used as the basis of the cost estimate. The project is estimated to remove a total of approximately 15,473 lbs of TN/year. The sewer conveyance system will have an estimated life of 30 years. Therefore, The cost benefit of the projects is \$14.00/ lb of TN removed over the life of the system.

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

The subject parcels lie within the unincorporated area of Citrus County, which has a mandatory connection ordinance in place (Citrus County Code of Ordinances, Part II, Chapter 42, Article V - Mandatory Sewer System Connection). The Southern Sewer Expansion Project will ultimately be presented to City Council for input and discussion during an advertised

public hearing(s).

| Funding Source | Prior Funding | FY2018 Budget | FY2019 Budget | Future Funding | Total Funding |
|---------------------------------|-----------------------|------------------|-------------------|-------------------|---------------|
| Applicant Share | | | 1,625,000 | 1,625,000 | 3,250,000 |
| General Fund-District Wide | | | 3,250,000 | | 3,250,000 |
| Total | | | 4,875,000 | 1,625,000 | 6,500,000 |
| Matching Fund Reduction | | | | | |
| Check here if requesting a redu | ction in matching fun | ds requirement | oursuant to s.288 | 3.06561, F.S. | |
| Timelines | | | | | |
| Funding and Consultant Se | lection | | | 03/01/2019 |) |
| Design and Permitting | | | 11/01/2019 | | |
| Advertise and Invitation to E | Bid | | | 01/01/2020 |) |
| Award to Contractor | | | | 02/28/2020 |) |
| Construction and CEI | | | | 11/30/2020 |) |

12/15/2020

Data Collection Assessment:

X No data will be collected for this project

Final Certifications and Closeout

FY2019 Cooperative Funding Initiative Application Form

| Project Name | Study - Citrus Coun | ty Stormwater | Utility Fee Rate & | Methodology | | | |
|---|---|--------------------------|--------------------|---------------------|----------------|--------------|--|
| Project Number | N986 | | | | | | |
| Cooperator | Citrus County | | | | | | |
| Department | Public Works | | | | | | |
| Contact Person | Mark Schroder | | | | | | |
| Address | 3600 W Sovereign F | Path | | | | | |
| City Sate Zip | Lecanto, FL 34461 | | | | | | |
| Phone # | 352-527-5443 | | | | | | |
| Email | mark.schroder@citr | usbocc.com | | | | | |
| Project Type: | | | | | | | |
| Water Supply X | Water Quality X Flood | Protection | Natural Systems | ; | | | |
| Strategic Initiatives: | | | | | | | |
| X Water Quality Maintenance and Improvement | | Water Quality Monitoring | | | | | |
| Alternative Water Supply | | Conservation | | | | | |
| Reclaimed Water | Regional Water Supply Planning | | | | | | |
| Emergency Flood Response | | X Floodplain Management | | | | | |
| Minimum Flows an | d Level Establishment a | nd Monitoring | Minimum Flov | vs and Levels Red | covery | | |
| Natural Systems C | onservation and Restora | ation | Natural Syste | ms Identification a | and Monitoring | | |
| Indicate All Counties | to Benefit From Projec | ct: | | | | | |
| Charlotte X C | itrus Desoto | Hardee | Hernando | Highlands | Hillsborough | Lake | |
| Levy M | anatee Marion | Pasco | Pinellas | Sarasota | Sumter | Polk | |
| Project Description/E | Benefit/Cost | | | | | | |
| Description: | | | | | | | |
| | development of a Storn e existing and future story | rmwater chall | enges on a sustain | able long term ba | | quire a clea | |

The initial efforts in the development of a Stormwater Utility (SWU) will focus on developing the approach and methodologies to address and resolve the existing and future stormwater challenges on a sustainable long term basis. This effort will require a clear vision of the program priorities, appropriate professional analysis of needs and resources, and a proper understanding of community's perceptions, expectations and priorities. Citrus County staff has recommended that the Board of County Commissioners (BOCC) hire a consultant to assist staff with the establishment of a Stormwater Utility. The BOCC has agreed with the recommendation. This is expected to take place in three steps over three years The first year will be an overall condition assessment and funding alternatives evaluation. The second year will be the performance of a rate study and development of billing methodologies. The third will be community outreach, public presentations and a final presentation to the Board of the available options.

Benefit:

A dedicated funding mechanism through the establishment of a Stormwater Utility would significantly improve the Citrus County's ability to fund stormwater capital improvement projects and address operational needs on a long term sustainable basis.

Cost:

Year 1 of the Feasibility Study will cost \$100,000. Each year of the study will be presented to the BOCC for approval. After BOCC Approval that year's portion of the study will be submitted for CFI funding.

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

Citrus County has partnered with the District to study and develop Watershed Management Plans for eight of the County's watersheds. The County has completed the Hunter Springs Water Quality Improvement Project in cooperation with the District. The County has also worked with the District to design and is preparing to construct the Homosassa South Fork Water Quality Improvement Project to improve quality of stormwater entering the Homosassa River. The County sought and received FEMA approval of new Flood Insurance Rate Maps based on basin studies conducted in cooperation with the District. The County is cooperating with the FDEP to develop the Kings Bay/Crystal River, Homosassa Springs and Chassahowitzka Springs Basin Management Action Plans (BMAP) aimed at reducing nutrient loadings within the springsheds. This effort compliments and supports the District's Springs Initiative. Citrus County has adopted floodplain, stormwater ordinances and fertilizer ordinances and is now covered under a NPDES Phase II permit for the county's Municipal Separate Storm Sewer System (MS4). As part of the NPDES permit the County has developed a stormwater education program, and is working on storm drain stenciling and street sweeping programs. The Citrus County Utility Department has successfully implemented a series of water conservation incentive programs that include, a rain sensor rebate program, low flow toilet programs, and irrigation evaluation and audit projects. Other incentive programs include various rebate opportunities in conjunction with the Florida Friendly Landscaping program. The water

conservation program also provides water conservation information and has Enforcement Officers to enforce watering restrictions set forth by Southwest Florida Water Management District.

| set forth by Southwest Florida Water Management District. | | | | | | | |
|---|------------------------------|------------------|-------------------|---------------------|---------------|--|--|
| Funding Source | Prior Funding | FY2018 Budget | FY2019 Budget | Future . Funding | Total Funding | | |
| Applicant Share | | | 50,000 | 100,000 | 150,000 | | |
| Withlacoochee River | | | 50,000 | 100,000 | 150,000 | | |
| Total | | | 100,000 | 200,000 | 300,000 | | |
| Matching Fund Reduction | | | | | | | |
| Check here if requesting a | a reduction in matching fund | ls requirement p | oursuant to s.288 | .06561, F.S. | | | |
| Timelines | | | | | | | |
| Phase 1 - Begin | | | | | | | |
| Milestone | | | Projected Date | | | | |
| Condition Assessment & Funding Alternatives | | | | 11/01/2019 | | | |
| Phase 1 - Deliverables | | | | | | | |
| Milestone | | | Projected Date | | | | |
| Condition Assessment & Funding Alternatives | | | 03/01/2020 | | | | |
| Phase 2 - Begin | | | | | | | |
| Milestone | | | Projected Date | | | | |
| Rate Study & Billing Methodology | | | 10/01/2020 | | | | |
| Phase 2 - Deliverables | | | | | | | |
| Milestone | | | | Projected Date | | | |
| Rate Study & Billing N | Methodology | | | 03/01/2021 | | | |

Milestone

Phase 3 - Begin

Projected Date Community Outreach, Presentations and Final Presentation to the BOCC 10/01/2021

Phase 3 - Deliverables

Milestone **Projected Date** Community Outreach, Presentations and Final Presentation to the BOCC 03/01/2022

Data Collection Assessment:

FY2019 Cooperative Funding Initiative Application Form

| Project Name Project Number | SW IMP - Water Quality - Hunte N987 | o. opgo | | | | |
|--|--|--|--|---|--|---|
| Cooperator | Crystal River | | | | | |
| Department | Public Works | | | | | |
| Contact Person | Beau Keene | | | | | |
| Address City Sate Zip | 123 Nw Hwy 19 Crystal River, FL 34428 | | | | | |
| Phone # | 352-795-4216 | | | | | |
| Email | bkeene@crystalriverfl.org | | | | | |
| Project Type: | 3 , | | | | | |
| Water Supply X Wa | ter Quality Flood Protection | Natural Sy | stems | | | |
| Strategic Initiatives: | | | | | | |
| X Water Quality Mainter | ance and Improvement | Water C | Quality Monitorin | ng | | |
| Alternative Water Sup | ply | Conserv | ation / | | | |
| Reclaimed Water | | Regiona | al Water Supply | Planning | | |
| Emergency Flood Res | sponse | Floodpla | ain Managemer | nt | | |
| Minimum Flows and L | evel Establishment and Monitori | ing Minimur | n Flows and Le | vels Recove | ery | |
| Natural Systems Cons | servation and Restoration | Natural | Systems Identif | fication and l | Monitoring | |
| Indicate All Counties to | Benefit From Project: | | | | | |
| Charlotte X Citru | s Desoto Harde | ee Herna | ndo Higl | hlands | Hillsborough | Lake |
| Levy Mana | atee Marion Pasco | Pinella | as Sar | asota [| Sumter | Polk |
| Project Description/Ben | efit/Cost | | | | | |
| Description: | (000DEDATOD) | :4-1 1 : 1 | | · | that Kinna Day | |
| River have in the communithe Surface Water Improvements bodies of water are adopted Total Maximum Existing Hunter Springs disproject area is shown on the primary objective of the primary objective of the total The Which are directly connective. | (COOPERATOR) recognizes the nity. These bodies of water are list ement and Management Plan (See impaired under FAC 62-303(d) Daily Load (TMDL). The propose rainage retention area (DRA) systhe location map provided with the project is to design and constitutes to the intention Kings Bay and the Crystal is reduction in the identified polluting. | sted as Outstan SWIM). A basin by total nitroge d project involve stem to improve his application. truct a DRA moon pairment of Kin River. The con | ding Florida Wa management ac n (TN) and total es the construct the water quali dification and trengs Bay and Crestruction of the | aters and are ction plan is phosphorus tion of an ad ty and hydro eatment syst ystal River b DRA modific | e classified as hig currently under d s (TP) as identified ditional treatment blogy of the syster rem which will inco y direct discharge cation and treatme | h priorities in evelopment. d in the train in the m. The rease the e into canals ent system |
| Benefit: | | | · | ' ' | | |
| conveying flow from the n between the southern DR southern DRA via the morthe southern end of the so Stormwater will stage up it Bay. The improvements a lbs of TN / Year and 143.5 | modification and treatment project, a modification to the weir of A and the drainage swale. Storm dified weir. Then, stormwater flow outhern DRA. Lastly, stormwater not the canal until reaching the decrease of TP / Year. This DRA mothis provides for a net reduction of | onnecting the tonwater flow from w will proceed to will proceed to sign discharge with this applicate odification and a | wo existing DRA the basin will end the drainage of the weir installed elevation of the tion. Currently, the diditional treatm | as, and reest enter the nor canal via the ed in the drai weir and pro he existing I nent will rem | ablishing a connecthern DRA and flor reestablished connage swale further beced to the outfather DRA system remotore 84.1 lbs of TI | ection ow to the nnection at er north. all to Kings oves 80.84 |
| Cost: | | | | | | |
| salaries. The project is es linear feet (LF) of 18" ellip | o cost \$75,000. All of the funding timated to require site grading, p tical round concrete pipe (ERCP nponent CostsDesign and Perm | orecast concrete). | structures and | concrete wo | ork, and approxim | g is for lately 60 |
| Describe your complem flood protection ordinar | Describe your complementary efforts in developing, implementing and enforcing water conservation, water quality and | | | | | |
| - | ntain the DRA stormwater syster | m in compliance | with the water | managemei | nt district projects | |
| Funding Source | Prior Funding | FY2018 Budget | FY2019 Budget | Future Funding | | |

| Applicant Share | 37,500 | 37,500 |
|-------------------------|--------|--------|
| Coastal Rivers | 37,500 | 37,500 |
| Total | 75,000 | 75,000 |
| Matching Fund Reduction | | |

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

Timelines

| Funding and Consultant Selection | 03/01/2019 |
|-----------------------------------|------------|
| Design and Permitting | 11/01/2019 |
| Advertise and Invitation to Bid | 01/01/2020 |
| Award to Contractor | 02/28/2020 |
| Construction & CEI | 11/30/2020 |
| Final Certifications and Closeout | 12/15/2020 |

Data Collection Assessment:

FY2019 Cooperative Funding Initiative Application Form

| Project Name Project Number | Conservation- Marion County Utiliti N999 | es Toilet Rebate Program - | Phase 5 | |
|--|--|---|--|--|
| Cooperator | Marion County | | | |
| Department | Marion County Utilities Department | t | | |
| Contact Person | Kevin Vickers | | | |
| Address | 11800 S Us Hwy 441 | | | |
| City Sate Zip | Belleview, FL 34420 | | | |
| Phone # | 352-307-4624 | | | |
| Email | Kevin.Vickers@marioncountyfl.org | | | |
| Project Type: | | | | |
| X Water Supply Wa | ter Quality Flood Protection | Natural Systems | | |
| Strategic Initiatives: | | | | |
| Water Quality Mainter | nance and Improvement | Water Quality Monitoring | g | |
| Alternative Water Sup | ply | X Conservation | | |
| Reclaimed Water | | Regional Water Supply | Planning | |
| Emergency Flood Res | sponse | Floodplain Managemen | ŧ | |
| Minimum Flows and L | evel Establishment and Monitoring | Minimum Flows and Lev | els Recovery | |
| Natural Systems Cons | servation and Restoration | Natural Systems Identifi | cation and Monitoring | |
| Indicate All Counties to | Benefit From Project: | | | |
| Charlotte Citrus | s Desoto Hardee | Hernando High | nlands Hillsborough | Lake |
| Levy Mana | atee X Marion Pasco | Pinellas Sara | asota Sumter | Polk |
| Project Description/Ben | efit/Cost | | | |
| Utilities' service area for redual-flush and high-efficie homes and commercial farebates per home while mwill be given rebates of up consultant will ensure 90 distributed to rebate partic program will be marketed Southwest Florida Water \$64,000 and will show an estimated costs of alternational Benefit: | f a project started in FY 2011, offering eplacement of existing high-volume ency toilets. In FY 2018 and FY 2019 acilities through an outside contracted nulti-family and commercial dwellings to \$100 for the first toilet installed, percent inspection of retrofitted toile cipants and a follow-up survey will be through billing inserts and fliers that Managements District's strategic inities estimated savings of 10,190 gallons at the water supply. | toilets (3.5 gallons per flush), Marion County Utilities exp d consultant. Single-family r s will be encouraged to repla and \$80 for the second, at a ts. Educational information are used to assess customer s will be posted at the utility of itative of water conservation is per day. The cost per 1,00 for th | (gpf) or greater) with WaterS bects to distribute 400 rebates esidences will be offered up to ace all devices at one time. Pun eligible residence. The consultation will estisfaction and water savings office. The program aligns itse. This total cost of this project | Sense labeled set to qualified to two toilet carticipants attracted also be s. This elf with the t will be |
| Total project cost is \$64,0 | 000. The cost allocated for this FY is | \$32,000. | | |
| Describe your complem | entary efforts in developing, impl | ementing and enforcing w | ater conservation, water qu | uality and |

Marion County's Water Use Efficiency efforts are achieved through a comprehensive, goal based program which includes regulations; public education and distribution of materials and products to realize measurable water savings. The current program includes:Regulation: Landscape Irrigation Restrictions (Ordinance 09-13), Tiered Utility Rate Structure (Resolution 09-R-87), Land Development Code Landscape Standards (Ordinance 09-17)Public Education: Targeted messaging to Marion County Utility customers, Participation in community events Tangible Products and Programs: Toilet rebates, Distribution of water conservation kits (indoor and outdoor fixture retrofits), Cooperative program with WRWSA to provide landscape irrigation evaluations/audits to high water users, Landscape and irrigation retrofits

| Funding Source | Prior Funding | FY2018 Budget | FY2019 Budget | Future Funding Total Funding |
|---------------------|---------------|------------------|------------------|---------------------------------|
| Applicant Share | | 16,000 | 16,000 | 32,000 |
| Withlacoochee River | | 16,000 | 16,000 | 32,000 |
| Total | | 32,000 | 32,000 | 64,000 |

Matching Fund Reduction

| Check here if requesting a reduction in matching funds requirement purs | suant to s.288.06561, F.S. |
|---|----------------------------|
| Timelines | |
| Project Start Date | 10/01/2018 |
| Data Collection Assessment: | |
| X No data will be collected for this project | |

FY2019 Cooperative Funding Initiative Application Form

| Project Name | lame Springs- Marion County Package Wastewater Plant Removal Program-Six Facilities | | | | | |
|--|---|----------------|-----------------|----------------------|---------------|------|
| Project Number | Q003 | | | | | |
| Cooperator | Marion County | | | | | |
| Department | Marion County Utilitie | es Department | | | | |
| Contact Person | Kevin Vickers | | | | | |
| Address | 11800 S Us Hwy 441 | | | | | |
| City Sate Zip | Belleview, FL 34420 | | | | | |
| Phone # | 352-307-4624 | | | | | |
| Email | Kevin.Vickers@mari | oncountyfl.org | | | | |
| Project Type: | | | | | | |
| X Water Supply X Wa | ter Quality | Protection _ | Natural Systems | | | |
| Strategic Initiatives: | | | | | | |
| X Water Quality Mainten | ance and Improveme | nt | Water Quality I | Monitoring | | |
| Alternative Water Sup | ply | | Conservation | | | |
| X Reclaimed Water | | | Regional Wate | r Supply Planning | l | |
| Emergency Flood Res | ponse | | Floodplain Mar | nagement | | |
| Minimum Flows and L | evel Establishment ar | nd Monitoring | Minimum Flows | s and Levels Reco | overy | |
| Natural Systems Cons | ervation and Restora | tion | Natural System | ns Identification ar | nd Monitoring | |
| Indicate All Counties to | Benefit From Projec | t: | | | | |
| Charlotte Citrus | Desoto | Hardee | Hernando | Highlands | Hillsborough | Lake |
| Levy Mana | tee X Marion | Pasco | Pinellas | Sarasota | Sumter | Polk |
| Project Description/Bend | efit/Cost | | | | | |
| Description: | | | | | | |
| This is a series of six projedecommission the packag | | | | | | |

This is a series of six projects to connect developments with existing package plants to the Marion County wastewater system and decommission the package plant. There are six package plants include in this application. Combined, they represent a total permitted capacity of 225,600 gallons per day (gpd), and a present day treatment of 75,750 gpd (average). Presently, none of these facilities produce or distribute reclaimed water to customers. Once connected to the Marion County wastewater system, the flow will be treated at either the Oak Run WWTF (FLA012697) or Northwest Regional WWTF (FLA272060). Both of these MCU facilities produce and deliver reclaimed water. The project scope would include constructing a new master lift station (or retrofitting an existing on-site lift station), construct forcemain to connect to the County's forcemain network, decommissioning of the package plant, and demolition of the existing package WWTF.

Benefit:

This project will accomplish two objectives: (1) reduce nutrient loading within the springshed and (2) reduce groundwater withdrawal by producing and delivering reclaimed water to customers. Based on the DMR data for 2016, five of the facilities meet or exceed an effluent concentration of 3 mg/L of total nitrogen (TN). One facility treats to an average of 4.86 mg/L TN. Overall, the nutrient reduction from sending flows to MCU plants will not be directly significant. The benefit will be from these nutrients being used in combination with golf course irrigation, rather than loading in rapid infiltration basins. All six facilities currently dispose of effluent via rapid infiltration basins. Based on the DMR data for 2016, these six facilities treated a total of 27,650,000 gallons of wastewater in 2016. This equates to an average total daily flow of approximately 75,750 gallons. If all plants are connected to MCU WWTFs, this flow will be treated to reclaimed standards and delivered to customers to further reduce groundwater withdrawals within the springshed.

Cost:

Please see attached Package Wastewater Plant Removal Program - Cost Estimate file to see cost breakdown by package plant and task. The total estimated cost is about \$3.12 million. Marion County is also applying for State Springs Funding (as shown in the Funding Table). The County acknowledges that if State Springs Funding is awarded, the requested SWFWMD Cost Share Funding will be reduced.

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

In 2013, the Marion County Land Development Code (LDC) was modified to required WWTFs to meet the following annual average reclaimed water limitation for total nitrogen by 2019: (a) 3.0 mg/L for facilities having a design average daily flow (DADF) equal to or greater than 100,000 gallons per day; or (b) 6.0 mg/L for facilities having a DADF less than 100,000 gallons per day.

| Funding Source | Prior Funding | FY2018 Budget | FY2019 Budget | Future Funding | Total Funding |
|-----------------------|---------------|------------------|------------------|-------------------|---------------|
| Applicant Share | | | 283,625 | | 283,625 |
| State Springs Funding | | | 2,836,250 | | 2,836,250 |

Withlacoochee River 2,836,250 2,836,250 Total 5,956,125 5,956,125 **Matching Fund Reduction** Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S. **Timelines** 1.Study/Feasibility Milestone **Projected Date** Contact and Negotiate with Package Plant Owners 09/01/2018 2.Design **Projected Date** Milestone 30% Design 01/01/2019 60% Design 02/01/2019 90% Desgin (includes draft RFB) 03/01/2019 Proposed Final Design (includes final RFB and Permitting) 05/01/2019 **District Verifications** 07/01/2019 3.Request for Bids Milestone **Projected Date** RFB Advertisement 08/01/2019 RFB Evaluation and Award 10/01/2019 Notice to Proceed to Contractor 11/01/2019 4.Construction Milestone **Projected Date**

12/01/2019

12/01/2020

01/01/2021

Data Collection Assessment:

Commence Construction

Construction Complete and Certifications

Substantial Completion

X Land Survey X Other data collection: Discharge Monitoring Reports

FY2019 Cooperative Funding Initiative Application Form

| Project Name | Study - Calienta Stre | eet Stormwater | r Improvements Fe | asibility | | |
|---|---|---|--|---|--|---|
| Project Number | Q017 | | | | | |
| Cooperator | Hernando County | | | | | |
| Department | Public Works | | | | | |
| Contact Person | Clay Black | | | | | |
| Address | 1525 E Jefferson St | | | | | |
| City Sate Zip | Brooksville, FL 3460 | 01 | | | | |
| Phone # | 352-754-4062 ext17 | 012 | | | | |
| Email | CBlack@co.hernand | do.fl.us | | | | |
| Project Type: | | | | | | |
| Water Supply X | Water Quality X Flood | Protection | Natural Systems | | | |
| Strategic Initiatives | : | | _ | | | |
| X Water Quality Ma | intenance and Improveme | ent | Water Quality | Monitoring | | |
| Alternative Water | Supply | | Conservation | | | |
| Reclaimed Water Regional Water Supply Planning | | | | | | |
| Emergency Flood Response X Floodplain Management | | | | | | |
| Minimum Flows a | and Level Establishment a | nd Monitoring | Minimum Flow | s and Levels Rec | covery | |
| Natural Systems | Conservation and Restora | ntion | Natural Syster | ms Identification a | nd Monitoring | |
| Indicate All Countie | s to Benefit From Projec | :t: | | | | |
| Charlotte | Citrus Desoto | Hardee | X Hernando | Highlands | Hillsborough | Lake |
| Levy | Manatee Marion | Pasco | Pinellas | Sarasota | Sumter | Polk |
| Project Description | Benefit/Cost | | | | | |
| Description: | | | | | | |
| This roadway serves neighborhoods in He conveyance and allow canals. This proposa neighborhood flood repreliminary planning, environmental and ar | lajor Local road located in a commercial and industronando Beach. This sections untreated runoff from the includes complete designable pollution abatement civil engineering site designated by the complete designated and a fenvironmental Protection | ial area and promoted in of roadway some commercial or plans and perfor waters draingn, all necessapplicable pern | ovides access to a sees flooding during /industrial area and rmitting for roadwa ning into the Gulf, a ary survey work, all nits from the South | County boat ram g typical storm ev d roadway to drair y and storm water and enhanced traft necessary geote west Florida Water | p facility and several ents due to the lack directly into the adj r improvements prov ffic safety. This inclu chnical work, all requer Management Distr | I residential of roadside oining Gulf viding des complete uired rict, the |
| Benefit: | | | | | | |
| runoff from the comm complete design plar abatement for waters | ray sees flooding during ty percial/industrial area and is and permitting for roady draining into the Gulf, and t of this project and used t | roadway to dra vay and storm d enhanced tra | ain directly into the water improvemen affic safety. Detaile | adjoining Gulf car its providing neigh | nals. This proposal in aborhood flood relief, | ncludes , pollution |

Design fees are estimated to be \$400,000. Final fees will be negotiated per the County's qualification based procurement policy.

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

Hernando County has partnered with the District to study and develop Watershed Management Plans for 22 watersheds throughout the County. The County partnered with the District to design and constructed the Peck Sink Stormwater Project, the South Brooksville Dauson Property Stormwater Project, and the BMP 7 Russell Street Stormwater Project. The County is presently working with the District to implement the BMP 6 Josephine Street Stormwater Project to relieve flooding in South Brooksville and

the Rogers Park Stormwater retrofit to improve water quality within the Weekiwachee River. The County has a dedicated stormwater funding mechanism in the form of a MSTU that assures funding will be available to implement approved projects.

Hernando County implemented a floodplain ordinance in 1986 and signed a joint Flood Protection Coordination Agreement with the District in September 2000. The County sought and received FEMA approval of new Flood Insurance Rate Maps (FIRM) on February 2, 2012 based on basin studies conducted in cooperation with the District. The County is working with the FDEP to develop the Weekiwachee Spring Basin Management Action Plan (BMAP) aimed at reducing nutrient loadings within that springshed. This effort compliments and supports the District's Springs Initiative.

Hernando County has instituted a series of public meetings seeking citizen input regarding proposed water management improvements in the community. Hernando County is covered under a NPDES Phase II MS4 permit and the County adopted a Stormwater Ordinance addressing water quality in June 2006. The County has recently instituted several measures under it's MS4 permit to improve water quality within the community including a stormwater education program (2003), a stormwater utility (2006), a pet waste ordinance (2012), a storm drain stenciling program (2013), a fertilizer ordinance (2013), a street sweeping program (2014), and a water quality testing and monitoring program (2014).

The Hernando County Utility Department has successfully implemented a series of water conservation incentive programs that include, a rain sensor rebate program, low flow toilet programs (2003-2012) and irrigation evaluation and audit projects. Other incentive programs include various rebate opportunities in conjunction with the Florida Friendly Landscaping program. The water conservation program also provides water conservation information in their Hernando County Water Awareness Series and Groundwater Guardians program, through bill inserts and information provided at each HCUD office.

Hernando County Code Enforcement Officers enforce watering restrictions set forth by Southwest Florida Water Management District and the more stringent regulations implemented by Hernando County Board of County Commissioners. Code Enforcement Officers also inspect construction sites and stormwater management systems for compliance with the water quality provisions of the County's NPDES MS4 permit.

| Funding Source | Prior Funding | FY2018 Budget | FY2019 Budget | Future Funding | Total Funding |
|---------------------------------|------------------------|-------------------|-------------------|-------------------|---------------|
| Applicant Share | | | 200,000 | | 200,000 |
| Coastal Rivers | | | 200,000 | | 200,000 |
| Total | | | 400,000 | | 400,000 |
| Matching Fund Reduction | | | | | |
| Check here if requesting a redu | ction in matching fund | ls requirement po | ursuant to s.288. | 06561, F.S. | |
| Timelines | | | | | |
| Design Consultant Selection No | v 1, 2018 - Jan 31, 20 | 119 | | | |
| Milestone | | | | Projected | Date |
| Desgin Contract Signed | | | | 01/31/201 | 9 |
| Performance of Design Contract | t Feb 1, 2019 - Aug 3 | 1, 2019 | | | |
| Milestone | | | | Projected | Date |
| Construction Plans and per | mitting complete | | | 08/31/201 | 9 |
| Plan Review and Acceptance Se | ept 1, 2019 - Sept 30, | 2019 | | | |
| Milestone | | | | Projected | Date |
| Construction Plans accepte | d | | | 09/30/201 | 9 |
| Data Collection Assessment: | | | | | |
| X Groundwater or Surface Water | Level measurements | X Land Surve | у | | |
| X Mapping/GIS data | | | | | |

FY2019 Cooperative Funding Initiative Application Form

| Project Name | Conservation-The Villages Rain Sensor Inspection/Replacement Program | | | | |
|--|--|--------------------------------|---------------------|---------------|------|
| Project Number | Q018 | | | | |
| Cooperator | NSCUDD | | | | |
| Department | | | | | |
| Contact Person | Jamie Padgett | | | | |
| Address | 1038 Lake Sumter Landing | | | | |
| City Sate Zip | The Villages, FL 32162 | | | | |
| Phone # | 352-753-4747 | | | | |
| Email | jamie.padgett@arnettenvironmenta | l.com | | | |
| Project Type: | | | | | |
| X Water Supply Water | ter Quality Flood Protection | Natural Systems | | | |
| Strategic Initiatives: | | | | | |
| Water Quality Mainten | nance and Improvement | Water Quality N | Monitoring | | |
| Alternative Water Supp | ply | X Conservation | | | |
| Reclaimed Water | | Regional Water Supply Planning | | | |
| Emergency Flood Res | ponse | Floodplain Man | agement | | |
| Minimum Flows and Lo | evel Establishment and Monitoring | Minimum Flows | s and Levels Reco | overy | |
| Natural Systems Cons | servation and Restoration | Natural System | s Identification ar | nd Monitoring | |
| Indicate All Counties to Benefit From Project: | | | | | |
| Charlotte Citrus | s Desoto Hardee | Hernando | Highlands | Hillsborough | Lake |
| Levy Mana | atee X Marion Pasco | Pinellas | Sarasota | X Sumter | Polk |
| Project Description/Bene Description: | efit/Cost | | | | |

The Villages Rain Sensor Inspection / Replacement Program is submitted for funding consideration by the Southwest Florida Water Management District Governing Board for FY 2019 Cooperative Funding Initiative. The project is submitted on behalf of North Sumter County Utility Dependent District, "NSCUDD,". NSCUDD will serve as the project cooperator, but the project will be in partnership with Village Center Community Development District, "VCCDD," and Sumter Water Conservation Authority, LLC, "SWCA". The project is located within SWFWMD's Northern Planning Area. The project areas are associated with The Villages of Sumter Water Use Permit No. 20013005.010 with a five-year (2012-2016) average Low Persons Per Household Adjusted Population Compliance Per Capita of 144. There are approximately 50,000 residential water accounts within the participating project area. The project estimates to replace 120 residential rain sensors found not functioning. The targeted participants are utility customers within the project area that use 20,000 gallons per month or higher. Letters notifying customers of the project will be sent to customers using over 20,000 gallons per month. Community Watch will also notify the program manager of residents found irrigating during or within 24 hours of significant rain event so that they may be notified of the program. The project is anticipated to save approximately 3,500,000 gallons annually (9,600 gpd) for the next five years, which results in a savings of more than 17 million through the replacement of residential rain sensors, appropriate irrigation controllers settings, and education. All participants will received educational materials, a rain sensor test, and appropriate irrigation controller settings. The rain sensor will be replaced if found non-functional. The project will require a post installation rain sensor test to confirm functionality. The project will offer indoor and outdoor water conservation literature to all participants. The project will offer each participant a tutorial on how to test the rain sensor and also how to set the irrigation controller appropriately. The project includes 12 months pre- and post- water usage data analysis of participants. The project helps to reduce groundwater and public water supply demand by providing residential users with functioning rain sensors and appropriately set irrigation controllers, thereby reducing the demand by implementing Florida-friendly principles. The water savings reduce groundwater demand, public water supply demand and conserves alternative water supplies for other beneficial uses. The project is consistent with SWFWMD priorities for cost-effectively reducing water demand.

Benefit:

The estimated cost/benefit ratio for the project calculated at an 8% annual rate of interest over five years is \$2.86 per 1,000 gallons, based on a total eligible project cost of \$40,000. A study on Rain Sensor Installation submitted to SWFWMD by McKenzie-Mohr & Associates showed installing a functioning rain sensor can provide a 5 – 10% water savings. We believe that a conservative estimate is savings at 12% based on providing educational material, changing controllers to the appropriate settings and replacing non-working rain sensors. We believe that a 12% savings is obtainable as the same utilities achieved a 29% savings through the

N278 audit program with WRWSA. Many features of that program will be implemented through the proposed rain sensor replacement program. The project is consistent with SWFWMD's Strategic Plan and The Villages Water Conservation Plan. The long-term benefits that can be derived from this project include: A reduction in demand for groundwater, reduced public supply demand, conservation of alternative water supplies for other beneficial uses, and improved water conservation education of resident.

Cost:

The total project cost is \$40,000, with the utilities with the project area contributing a total of \$20,000 and SWFWMD contributing \$20,000. The cost per rain sensor inspection / replacement will depend on if a replacement is necessary and the type of rain sensor to be replaced, i.e. Wired vs wireless and Hunter Mini-Click vs Hunter Solar Sync). To be conservative, we estimate the evaluation, education, controller adjustment and replacement of the mini-click rain sensor (labor and materials) to be approximately \$225. If the replacement requires a solar sync rain sensor, we estimate the total price to be approximately \$300 for labor and materials. As a conservative estimate, we anticipate the replacement of 120 rain sensors. Methods will be sought to reduce the cost per customer so that additional customers can be included in the program. The purchasing power of the development will be used to minimize rain sensor costs. Reduced costs may also allow conversion of all rain sensors to the solar sync type which has higher water conservation potential.

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

The Villages is planned and managed to maximize conservation of water resources and has a comprehensive water conservation plan and is included in the file of record for WUP 13005. The multitude of initiatives taken under the water conservation plan is intended to conserve water at every level of the community. Areas of focus include utilities, urban landscape, golf course and other recreation, commercial, and residential. NSCUDD, VCCDD and SWCA do not have the authority to develop, implement or enforce ordinances.

09/30/2020

01/31/2021

| Funding Source | Prior Funding | FY2018 Budget | FY2019 Budget | Future Funding | Total Funding |
|--------------------------------|----------------------------|------------------|------------------|-------------------|---------------|
| Applicant Share | | | 20,000 | | 20,000 |
| General Fund-District Wide | | | 20,000 | | 20,000 |
| Total | | | 40,000 | | 40,000 |
| Matching Fund Reduction | | | | | |
| Check here if requesting a | reduction in matching fund | ds requirement p | ursuant to s.288 | .06561, F.S. | |
| Timelines | | | | | |
| Agreement with SWFW | MD | | | 01/01/2019 | 9 |
| Evaluations/Replacements Begin | | | | 02/01/2019 | 9 |
| Evaluations/Replaceme | ents End | | | 09/30/2019 | 9 |
| Program Analysis Begir | า | | | 10/01/2019 | 9 |

Final Report Due Data Collection Assessment:

Program Analysis End

FY2019 Cooperative Funding Initiative Application Form

| Project Name | Springs- Ocala Rainbow/Fox Mead | low Septic to Sewe | er Project | | |
|--|---|--|--|---|---|
| Project Number | Q019 | | | | |
| Cooperator | Ocala | | | | |
| Department | Water Resources | | | | |
| Contact Person | Rusella Bowes-Johnson | | | | |
| Address | 1805 Ne 30th Ave, Bldg 600 | | | | |
| City Sate Zip | Ocala, FL 34470 | | | | |
| Phone # | 352-351-6772 | | | | |
| Email | RJohnson@Ocalafl.org | | | | |
| Project Type: | | 7 | | | |
| | ater Quality Flood Protection | Natural Systems | | | |
| Strategic Initiatives: | | | | | |
| X Water Quality Mainter | nance and Improvement | Water Quality | Monitoring | | |
| Alternative Water Sup | pply | Conservation | | | |
| Reclaimed Water | | Regional Water | er Supply Planning | 3 | |
| Emergency Flood Res | sponse | Floodplain Mai | nagement | | |
| Minimum Flows and L | evel Establishment and Monitoring | Minimum Flow | s and Levels Rec | overy | |
| Natural Systems Cons | servation and Restoration | Natural System | ns Identification a | nd Monitoring | |
| Indicate All Counties to | Benefit From Project: | | | | |
| Charlotte Citrus | s Desoto Hardee | Hernando | Highlands | Hillsborough | Lake |
| Levy Mana | atee X Marion Pasco | Pinellas | Sarasota | Sumter | Polk |
| Project Description/Ben | efit/Cost | | | | |
| Description: | | | | | |
| Rainbow River has in the priorities in the Surface W updated. These bodies of Maximum Daily Load (TM (PROJECT) to help impro and construct a sanitary s family residential lots. The | ERATOR) recognizes the vital ecolor community. These bodies of water a vater Improvement and Management water are impaired under FAC 62-3 IDL). With this in mind, the COOPER ove the water quality of these impaires sewer system which will remove from a septic tanks contribute to the total intention that is tanks will result in a substantial and enefit section below. | are listed as Outsta t Plan (SWIM). A b 303(d) by total nitro RATOR has identified water bodies. The n service approximanitrogen (TN) impa | anding Florida Wa pasin managemen gen (TN) as ident ied the Fox Meado he primary objecti ately 275 septic ta irment of Rainbov | Iters and are classified taction plan is currelified in the adopted town Sewer Expansion ve of the PROJECT anks from the associate Springs and the Ra | ed as high ntly being Fotal I Project is to design ated single ainbow Rivel |
| Benefit: | | | | | |
| parcels lie within the City | ve approximately 275 septic tanks from of Ocala, which has a mandatory contactory Sewer System Connection) | nnection ordinance | | | |
| It is estimated that each s | single family residence produces 29.8 | 8 lbs of TN per yea | ar and each septic | tank is able to remo | ve |

Cost:

total nitrogen from the Rainbow Springs BMAP area.

The Fox Meadow Sewer Expansion Project is estimated to cost \$4,705,000. All of the funding requested is for contracted services or materials; no funding is for salaries. The project is estimated to require approximately 15,000 LF of gravity sewer, 5,000 LF of sewer forcemain, and a regional sewer lift station. Additionally, the existing collection system will need to be evaluated and assessed.

approximately 33% of the TN. This results in a total of approximately 5491 lbs of TN / year flowing to the Rainbow Springs

watershed from the 275 single family lots and associated septic tanks. The City of Ocala WWTP #2 discharges effluent at 3 mg/l or less. If the 68,750 gpd from the 275 residential homes are diverted to WWTP #2 then the discharge of TN is reduced to 764 lbs of TN/Year. The construction of a conveyance system to allow these areas to connect to central sewer will remove 4,727 lbs/ year of

The PROJECT is estimated to remove a total of approximately 4,727 lbs of TN / Year. The sewer conveyance system will have an estimated life of 30 years. Therefore, The cost benefit of the projects is \$33.18 / lb of TN removed over the life of the system.

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

The subject parcels lie within the City of Ocala, which has a mandatory connection ordinance in place (Ocala Code of Ordinances, SEC 10.01 (c) -Mandatory Sewer System Connection). The Fox Meadow STS Project will ultimately be presented to City Council for input and discussion during an advertised public hearing(s).

| Funding Source | Prior Funding | FY2018 Budget | FY2019 Budget | Future Funding | Total Funding |
|-------------------------------|-------------------------|------------------|-------------------|-------------------|---------------|
| Applicant Share | | | 1,176,250 | 1,176,250 | 2,352,500 |
| General Fund-District Wide | | | 2,352,500 | | 2,352,500 |
| Total | | | 3,528,750 | 1,176,250 | 4,705,000 |
| Matching Fund Reduction | | | | | |
| Check here if requesting a re | duction in matching fun | ds requirement | oursuant to s.288 | 3.06561, F.S. | |
| Timelines | | | | | |
| Funding and Consultant | Selection | | | 03/01/2019 | 9 |
| Design and Permitting | | | | 10/01/2019 | 9 |
| Advertise and Invitation to | o Bid | | | 01/31/2020 |) |
| Award and NTP to Contra | actor | | | 02/28/2020 |) |
| Construction & CEI | | | | 09/30/2020 |) |

12/01/2020

Data Collection Assessment:

X No data will be collected for this project

Final Certifications and Closeout

Springs- Hernando County US19/Hwy50 Septic to Sewer, Districts A and B

FY2019 Cooperative Funding Initiative Application Form

| Project Number | Q024 | | | | |
|--|---|--|---|--|---|
| Cooperator | Hernando County | | | | |
| Department | Utilities Department | | | | |
| Contact Person | Richard Kirby | | | | |
| Address | 12365 Cortez Boulevard | | | | |
| City Sate Zip | Brooksville, FL 34613 | | | | |
| Phone # | 352-754-4769 | | | | |
| Email | Rkirby@hernandocounty.us | | | | |
| Project Type: | | | | | |
| Water Supply Wa | ater Quality Flood Protection | X Natural Systems | | | |
| Strategic Initiatives: | | | | | |
| Water Quality Mainter | nance and Improvement | Water Quality | Monitoring | | |
| Alternative Water Sup | pply | Conservation | | | |
| Reclaimed Water | | Regional Wate | er Supply Plannin | g | |
| Emergency Flood Res | sponse | Floodplain Ma | nagement | | |
| Minimum Flows and L | evel Establishment and Monitoring | g Minimum Flow | s and Levels Red | covery | |
| X Natural Systems Cons | servation and Restoration | Natural System | ns Identification a | and Monitoring | |
| Indicate All Counties to | Benefit From Project: | | | | |
| Charlotte Citrus | s Desoto Hardee | X Hernando | Highlands | Hillsborough | Lake |
| Levy Mana | atee Marion Pasco | Pinellas | Sarasota | Sumter | Polk |
| Project Description/Ben | efit/Cost | | | | |
| Description: | | | | | |
| a contributing factor for ar | ars, Weeki Wachee River has exp n ecological imbalance (excessive aximum daily load (TMDL) for nitra | growth of algae) in V | Weeki Wachee Sp | | |
| agricultural lands and fore enrichment, particularly in groundwater. Nitrate concless historically (SWFWM reducing nutrient loads and The Hernando County Se onsite treatment and dispolar accordance with the ov A & B have approximately | VWS), is fed from a large shallow a ested uplands. The WWS aquifer up the inorganic form nitrate, is an is centrations have been increasing in ID 2017, see below) to 0.9 mg/L in and restoring these impaired waterbeptic to Sewer Conversion Program osal of waste water. The overall program, District A will be the y 2213 lots, 1822 with septic tanks to all of the lots in the area. The local | inderlies portions of sue because nitrate in the water dischargi 2015. Development odies is underway. In is an effort to provide first area where the and 385 undeveloped. | Hernando and Pa is mobile and cor ing from Weeki W of a basin mana de sewer to 30,00 his large 30,000 l septic to sewer c ed. This project w | asco counties. Nitrognservative once it re lachee Spring from gement action plan (00 lots that use seption area into 19 Distropoversion will take ill remove the existing | gen aches the 0.1 mg/L or (BMAP) for c tanks for icts (A to S). place. District |

Benefit:

Project Name

Weeki Wachee Spring and the Weeki Wachee River support a diverse ecological community of aquatic vegetation, fish, and wildlife and are an important economic resource. Nitrogen enrichment is an ongoing issue for the Spring and River, stimulating phytoplankton growth, resulting in decreased water clarity and light penetration to submerged aquatic vegetation (SWFWMD 2017). Reduction of nitrogen loads is the primary focus of water quality management actions for the Weeki Wachee River. Eliminating septic tanks would improve water quality in the River and downstream in the Gulf of Mexico. Implementation of this program in Districts A & B and processing the water through a wastewater treatment facility would remove over 26,000 lbs/year of nitrogen from the springshed (Coastal Engineering Associates 2016).

Expansion of the sewer system will contribute to economic growth in the county. This expansion will help the county to grow, improve its economy, and grow the tax base. The proposed project will increase workforce development and job creation in both public and private sectors. Local engineering efforts will be required for the survey, design, and permitting components and locally, skilled workers will be needed for construction efforts of abandoning septic tanks and installing the collection system on side

streets. The proposed project requires experienced and technically skilled positions often associated with a full-time salary, higher wage and benefits. The improvements at the river and springs will benefit the local ecotourism economy.

Cost:

The cost of this project was determined in Hernando County's the Septic to Sewer Conversion Study. The cost of District A & B was determined to be approximately \$47,000,000 in 2016. Using an inflation factor of 3%, the revised total, and 3 years average time to complete implementation, the cost of the project will be \$48.4 million The District's share of the project is requested to be \$24,200,000, half of the expected total budget, over a 5 year delivery period. Design Criteria Package development is planned to begin in FY 19. Construction is planned to begin through the Design-Build delivery method in mid 2024.

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

Hernando County Utilities Department (HCUD) has successfully implemented their water conservation/water resource protection program for over a decade. Conservation programs such as rain sensor installations, irrigation evaluations, low flow toilet replacements, along with innovative and bold education programs have led HCUD to meet Water Use Permit regulatory requirements both in annual gallons of water pumped and per capita requirements. HCUD was the first utility in the Northern Region of SWFWMD to establish water conservation rate structures. HCUD continues to work closely with Code Enforcement in watering restrictions education and enforcement efforts.

HCUD developed a Septic to Sewer Conversion Study, Coastal Engineering 2016. This study identifies areas where conversion from septic tanks to central sewer is achievable and prioritizes those areas into Districts. The study quantifies the nitrogen removal from the natural environment.

Requirement to connect to sewer when available; Hernando County Ordinance, Section 28-238 states

•Where service is available, the owner of every lot or parcel of land within the district shall connect or cause the plumbing of any building or buildings thereon to be connected with the district's water and/or sanitary sewer system within one (1) year of notice of availability by the district and shall use the facilities of such system. ... No less than one (1) year prior to the date that a new or extended central water and/or sewer system will become available for affected lots or parcels, the district shall notify the affected owners of the anticipated availability of the central sewer system and shall also notify the owners that connection to the available system(s) is required within one (1) year of the actual availability. ...

Requirement for new development to install reclaimed water irrigation lines; Hernando County Ordinance, Section 28-560 states

•Proposed developments in the planning stage, after the adoption of this ordinance, within the unincorporated areas of Hernando County shall, have a reclaimed water distribution system designed and subsequently installed therein for the current or future irrigation of green areas including all residential, commercial, public and private landscape areas within the development. This section only applies where the development will be connected to district water and wastewater facilities.

| Funding Source | Prior Funding | FY2018 Budget | FY2019 Budget | Future Funding | Total Funding |
|--------------------------------|------------------------------|------------------|------------------|-------------------|---------------|
| Applicant Share | | | 300,000 | 23,900,000 | 24,200,000 |
| Coastal Rivers | | | 300,000 | 23,900,000 | 24,200,000 |
| Total | | | 600,000 | 47,800,000 | 48,400,000 |
| Matching Fund Reduction | | | | | |
| Check here if requesting | a reduction in matching fun- | ds requirement p | ursuant to s.28 | 8.06561, F.S. | |
| Timelines | | | | | |
| Dragues Dagiera Crita | via Drafassianal | | | 07/40/204 | 0 |

| Procure Design Criteria Professional | 07/19/2019 |
|--------------------------------------|------------|
| Design Criteria Package Development | 05/08/2020 |
| Procure Design-Build Team | 09/11/2020 |
| Design-Build | 08/11/2023 |
| Project Closeout | 04/12/2024 |

Data Collection Assessment:

| X Groundwater or Surface Water Quality measurements | X | Other data collection: Number of septic tanks converted to central sewer |
|---|---|--|
|---|---|--|

FY2019 Cooperative Funding Initiative Application Form

| Project Name | Springs-Ocala Rainb | oow/Fairfield V | illage Package Plar | nt Removal Projec | ct | |
|--|---|--|--|--|--|--|
| Project Number | Q025 | | | | | |
| Cooperator | Ocala | | | | | |
| Department | Water Resources | | | | | |
| Contact Person | Rusella Bowes-John | ison | | | | |
| Address | 1805 Ne 30th Ave, E | 3ldg 600 | | | | |
| City Sate Zip | Ocala, FL 34470 | | | | | |
| Phone # | 352-351-6772 | | | | | |
| Email | RJohnson@Ocalafl. | org | | | | |
| Project Type: | | | | | | |
| Water Supply X W | ater Quality | Protection | Natural Systems | | | |
| Strategic Initiatives: | | | | | | |
| X Water Quality Mainte | nance and Improveme | ent | Water Quality N | Monitoring | | |
| Alternative Water Su | pply | | Conservation | | | |
| Reclaimed Water | | | Regional Water | r Supply Planning |) | |
| Emergency Flood Re | sponse | | Floodplain Mar | agement | | |
| Minimum Flows and | Level Establishment a | nd Monitoring | Minimum Flows | s and Levels Rec | overy | |
| Natural Systems Cor | nservation and Restora | ntion | Natural System | s Identification a | nd Monitoring | |
| Indicate All Counties to | Benefit From Projec | :t: | | | | |
| Charlotte Citro | us Desoto | Hardee | Hernando | Highlands | Hillsborough | Lake |
| Levy Mar | natee X Marion | Pasco | Pinellas | Sarasota | Sumter | Polk |
| Project Description/Be Description: | nefit/Cost | | | | | |
| The City of Ocala (COOI Rainbow River has in the priorities in the Surface Vupdated. These bodies of Maximum Daily Load (TI (PROJECT) to help improved the primary objective of package plant (highlighte center. The package plant removal of the package quantified in the project be provided to the package of | e community. These bo Water Improvement and of water are impaired un MDL). With this in mind, love the water quality of the PROJECT is to de ed in magenta on the mont contributes to the tot plant will result in a sub | odies of water and Managemen of FAC 62-3, The COOPER of these impaired sign and constant) which sertal nitrogen(TN | are listed as Outsta t Plan (SWIM). A ba 103(d) by total nitrog RATOR has identified ad water bodies. truct a sanitary sew wes approximately (I) impairment of Rai | nding Florida Wa asin management gen (TN) as identi ed the Fairfield Vi er system which v 850 mixed use res inbow Springs an | ters and are classifict action plan is currectified in the adopted llage Sewer Expans will remove from selection and 1 of the Rainbow Rive | ed as high ently being Total sion Project rvice a community r. The |

Benefit:

This PROJECT will remove a package plant from service within the Rainbow Springs BMAP area.

The subject parcels lie within the City of Ocala, which has a mandatory connection ordinance in place (Ocala Code of Ordinances, SEC 10.01 (c) -Mandatory Sewer System Connection).

The package plant is currently permitted to discharge 12 mg/l of TN at the permitted flow of 75,800 gpd. According to the most recent permit renewal for the WWTP the plant receives an approximate average daily flow of 17,300 gpd and has had a recent measured discharge of 14 mg/l of TN. The nitrogen is measured quarterly. This results in approximately 900 lbs of TN / Year discharged to the Rainbow Springs Watershed. Additionally, the package plant is not expected to meet the new nutrient removal criteria associated with the 2016-1 rule currently being implemented. The City of Ocala WWTP #2 discharges effluent at 3 mg/lor less. If the 17,300 gpd from the package plant are diverted to WWTP #2 then the discharge of TN is reduced to 192 lbs of TN/Year. The construction of a conveyance system to allow these areas to connect to central sewer will remove 710 lbs/ year of total nitrogen from the Rainbow Springs BMAP area.

Cost:

The Fairfield Village Sewer Expansion Project is estimated to cost \$875,000. All of the funding requested is for contracted services and materials; no funding is for salaries. The project is estimated to require approximately 2,500 LF of 6 inch sewer force main and a regional sewer lift station. Additionally, the existing collection system will need to be evaluated and assessed. Breakdown of Project Component Costs

Evaluation and Assessment - \$25,000 Land Acquisition - \$50,000 Design and Permitting - \$75,000 CEI - \$50,000

Demolition of existing package plant - \$50,000

Construction Costs - \$750,000

The PROJECT is estimated to remove a total of approximately 710 lbs of TN /Year. The sewer conveyance system will have an estimated life of 30 years. Therefore, the cost benefit of the projects is \$41.08/ lb of TN removed over the life of the system.

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

The subject parcels lie within the City of Ocala, which has a mandatory connection ordinance in place (Ocala Code of Ordinances, SEC 10.01 (c) -Mandatory Sewer System Connection). The Fairfield Village Package Plant Project will ultimately be presented to City Council for input and discussion during an advertised public hearing(s).

| Funding Source | Prior Funding | FY2018 Budget | FY2019 Budget | Future Funding | Total Funding |
|----------------------------|---------------|------------------|------------------|-------------------|---------------|
| Applicant Share | | | 218,750 | 218,750 | 437,500 |
| General Fund-District Wide | | | 437,500 | | 437,500 |
| Total | | | 656,250 | 218,750 | 875,000 |

Matching Fund Reduction

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

Timelines

| Funding and Consultant Selection | 03/01/2019 |
|-----------------------------------|------------|
| Design and Permitting | 10/01/2019 |
| Advertise and Invitation to Bid | 01/31/2020 |
| Award and NTP to Contractor | 02/28/2020 |
| Construction & CEI | 09/30/2020 |
| Final Certifications and Closeout | 12/01/2020 |

Data Collection Assessment:

FY2019 Cooperative Funding Initiative Application Form

| Project Name Project Number Cooperator Department Contact Person Address City Sate Zip Phone # Email Project Type: | Springs- Citrus Coun Q037 Citrus County Operations And Pro Christina Malmberg 3600 W. Sovereign Lecanto, FL 344619 352-527-7616 Christina.Malmberge | ects Path 014 @citrusbocc.cor | | Sewer | | |
|--|--|--|--|--|---|---|
| | ter Quality Flood | Protection | Natural Systems | | | |
| Strategic Initiatives: | | . [| ¬ | | | |
| X Water Quality Mainter | · | ent [| Water Quality | Monitoring | | |
| Alternative Water Sup | ply | ļ | Conservation | | | |
| Reclaimed Water | | | Regional Wate | er Supply Planning | | |
| Emergency Flood Res | sponse | | Floodplain Mai | nagement | | |
| Minimum Flows and L | evel Establishment a | nd Monitoring | Minimum Flow | s and Levels Reco | overy | |
| Natural Systems Cons | servation and Restora | ation | Natural Systen | ns Identification ar | nd Monitoring | |
| Indicate All Counties to | Benefit From Projec | et: | | | | |
| Charlotte X Citrus | s Desoto | Hardee | Hernando | Highlands | Hillsborough | Lake |
| Levy | atee Marion | Pasco | Pinellas | Sarasota | Sumter | Polk |
| Project Description/Ben Description: | efit/Cost | | | | | |
| This project aligns with the of the connection of existi wastewater collection systexisting force main to resistations. The County's reclocated in the residential a Code of Ordinances, Part TN load reduction of 4,78° | ng residential dwellin tem. The constructior dent's lot lines and a quirements will then ra area of Cambridge Gi II, Chapter 42, Article | g unit septic sys will include ins my associated co esult in the conreens. The Cour e V – Mandatory | stems located in the tallation of approximation of approximation of the tallation of tallation | ne Kings Bay sprir kimately 15,000 line may include lift sta 20 existing septic to bry connection ordi connection). The pi | ngshed to Citrus Cou ear feet of sewer line ation(s) and grinder p anks to the existing to inance in place (Citru roject will result in an | inty's central e from the oump force main us County |
| Benefit: | | | | | | |
| The resource benefit of the priority water body by an elecated in the residential amandatory connection or System Connection) that wastewater collection syswill increase the production. The availability of reuse, in the proposed project with that has been established station(s) to residents' lot approximately 220 resider or 13 lbs of nitrogen per deffectiveness equals \$67. | estimated 4,787 lbs/y area of Cambridge Grambridge Gram | r TN. This projectens, an area idustion goal set foiate the nutrient med water for recambridge Greathe County in of the TMDL livingshed grouptional municipal ould result in an y) to the springs (Project total = | ct will compel the dentified in the Kir of Ordinances, P rth by this project. discharge to the cuse, thus satisfying a better position the little, which is in dr. Installation of ap sanitary sewer sy estimated average thed. Over a 20-ye \$6,500,000). | connection of up to the say springsher art II, Chapter 42, Interconnecting so Kings Bay springs ag the goals set for ver project, will decto achieve water coraft form, and the Eproximately 15,000 stem that will allowed period, this nitrogen reductive ar period, this nitrogen. | o 220 septic tanks the digroup. The County Article V – Mandato eptic tanks into a celed and the Gulf of the by the Springs Increase the amount conservation goals. As asin Management of the tof sewer line and for the connection on of 4,787 lb/yr of the | nat are y has a ry Sewer ntral Mexico, but itiative Plan. f dditionally, Action Plan and pump of otal nitrogen, |

Cost:

The septic to sewer project would cost an estimated \$6,500,000. Costs include \$250,000 for engineering (design, bidding and construction administration), \$6,250,000 for construction.

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

Citrus County Water Resources Department has successfully implemented water conservation incentive programs including rain sensor rebates, low flow toilet programs and the irrigation evaluation and audit project. Other incentive programs include various rebate opportunities in conjunction with the Florida Yards and Neighborhoods programs. The water conservation program also provides water conservation information through bill inserts and information provided at the Citrus County Water Resources office. Citrus County Water Conservation division is charged with enforcing the watering restrictions as set forth by Southwest Florida Water Management District, and has issued citations and gone to court over violations.

Citrus County has adopted a Floodplain Ordinance as required to participate in the National Flood Insurance Program (NFIP). The regulations are part of the Citrus County Land Development Code. The floodplain regulations are contained in Section 4160 "Floodplain Protection:. All development is required to be in compliance with this Section.

| Funding Source | Prior Funding | FY2018 Budget | FY2019 Budget | Future Total Funding |
|-------------------------|----------------------|------------------|------------------|----------------------|
| Applicant Share | | | 1,276,000 | 1,276,000 |
| FDEP | | | 3,250,000 | 3,250,000 |
| Legislation | | | 349,000 | 349,000 |
| Withlacoochee River | | | 1,625,000 | 1,625,000 |
| Total | | | 6,500,000 | 6,500,000 |
| Matching Fund Reduction | | | | |

Matching Fund Reduction

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

Timelines

| Design and Permitting | 10/15/2019 |
|-----------------------|------------|
| Invitation to Bid | 12/20/2019 |
| Construction NTP | 01/15/2020 |
| Construction | 08/31/2021 |

Data Collection Assessment:

FY2019 Cooperative Funding Initiative Application Form

SW IMP - Water Quality - Rainbow Springs 5th Replat Stormwater Retrofit - CP 73

| • | | , | 1 0 1 | | | | |
|--------------------------|------------------------|---------------|--------------------------------|---------------------|---------------|------|--|
| Project Number | Q039 | | | | | | |
| Cooperator | Marion County | | | | | | |
| Department | Office Of The Count | y Engineer | | | | | |
| Contact Person | Gail Mowry | | | | | | |
| Address | 412 Se 25th Avenue | : | | | | | |
| City Sate Zip | Ocala, FL 34471 | | | | | | |
| Phone # | 352-671-8686 | | | | | | |
| Email | gail.mowry@marion | countyfl.org | | | | | |
| Project Type: | | | | | | | |
| Water Supply X W | ater Quality | Protection | Natural Systems | | | | |
| Strategic Initiatives: | | | | | | | |
| X Water Quality Mainte | nance and Improveme | ent | Water Quality | Monitoring | | | |
| Alternative Water Supply | | Conservation | | | | | |
| Reclaimed Water | | | Regional Water Supply Planning | | | | |
| Emergency Flood Re | esponse | | Floodplain Ma | nagement | | | |
| Minimum Flows and | Level Establishment a | nd Monitoring | Minimum Flow | s and Levels Rec | covery | | |
| Natural Systems Cor | nservation and Restora | ition | Natural System | ms Identification a | nd Monitoring | | |
| Indicate All Counties to | Benefit From Projec | :t: | | | | | |
| Charlotte Citro | us Desoto | Hardee | Hernando | Highlands | Hillsborough | Lake | |
| Levy Mar | natee X Marion | Pasco | Pinellas | Sarasota | Sumter | Polk | |
| Project Description/Bei | nefit/Cost | | | | | | |
| Description: | | | | | | | |

Project Name

The Rainbow Springs 5th Replat Stormwater Retrofit (CP #73) is located in southwestern Marion County within the Rainbow Springs springshed and surface watershed. The project was identified from the Rainbow River watershed management plan, completed in 2010. A 37.5 acre contributing area, mostly low density residential land use, drains to five existing dry retention ponds. Dry retention ponds provide minimal removal of nitrogen from stormwater runoff as it is being infiltrated. Infiltrated stormwater is a source of nitrogen, in the form of nitrate, to Rainbow Springs. A TMDL for nitrate concentration has been adopted for Rainbow Springs and a basin management action plan (BMAP) has been developed. This project will be included in the BMAP. This project will improve the ability of the existing retention pond to remove nitrogen from stormwater by removing approximately 2 feet of soil from the pond bottom and replacing it with the Bold and Gold soil amendment developed by the University of Central Florida Stormwater Academy. The proposed project is the start of a phased implementation of Bold and Gold retrofits to County owned retention ponds in the vicinity of Rainbow Springs. The application of Bold and Gold proposed for this project is the same as in the first full scale pilot application at the SW 85th Street and SW 40th Avenue Stormwater Retrofit. Monitoring of the pilot project has shown that the Bold and Gold has resulted in a treatment efficiency of 70% of total nitrogen from the stormwater infiltrated.

Pollutant load modeling from the Rainbow River Watershed Management Plan estimated that 130 lbs/yr of total nitrogen would be transported in stormwater runoff to the retention ponds. As the runoff infiltrates, any nitrogen that is not already in nitrate form is expected to convert to nitrate. Existing treatment efficiency of total nitrogen by the retention ponds is minimal. The Bold and Gold s expected at least 70% of the total nitrogen resulting in 91 lbs/yr of total nitrogen removed.

Cost:

The estimated cost for construction is \$290,850. This estimate includes actual construction along with construction engineering services by the engineer of record and geotechnical testing services during construction. The estimated cost and an expected annual maintenance cost of \$463 per year results in an estimate of \$164.77 per pound removed over a 20-year period. Design and permitting will be complete prior to cooperative funds becoming available on October 1, 2018. Funds for construction of this project are identified in the Stormwater Implementation Program (SIP or 5-year Plan), as illustrated in Table 1 of the approved SIP included with this application. This funding will be included in the FY 2018/2019 Budget once that process is initiated in early 2018.

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

The Marion County Stormwater Section is funded by a yearly stormwater assessment. The program is responsible for NPDES/ TMDL compliance, watershed management, flood protection studies as well as, management & maintenance of the stormwater system associated with the transportation network. The Marion County Land Development Code requires stormwater design and permitting on all development activities that exceed 9,000 square feet of impervious surface and includes compensating storage requirements for placement of fill in a floodplain. Marion County maintains Community Rating System Class 7. In 2008 and 2009, Marion County adopted springs protection, fertilizer, and irrigation ordinances, as well as new land development code for springshed protection. The Board of County Commissioners (Board) established a staff position to promote proactive

steps that each citizen can take to reduce consumption of our water supply. Through community outreach efforts and water conservation workshops, Marion County citizens are learning about proper use of low-flow devices, Florida-friendly landscaping and compliance with the County's irrigation schedule.

The Board also approved the 2016-2017 Stormwater Public Education Plan (SEP) and, with it, goals to increase local awareness of stormwater pollution and promote a reduction in contributing behaviors. The SEP outlines a multi-media approach that consists of a public service announcement (PSA) campaign encompassing radio advertisements coupled with an on-line survey assessing the radio PSA; billboards encouraging proper fertilizer use; creation and implementation of a fertilizer education program in partnership with area businesses; and implementation of other initiatives necessary to meet the NPDES permit requirements for stormwater education and outreach. The planned effort for FY 2018-2019 is over 4 million educational impressions to our community.

| Funding Source | Prior Funding | FY2018 Budget | FY2019 Budget | Future Funding | Total Funding |
|--------------------------------|---------------|------------------|------------------|-------------------|---------------|
| Applicant Share | | | 145,425 | | 145,425 |
| Withlacoochee River | | | 145,425 | | 145,425 |
| Total | | | 290,850 | | 290,850 |
| Matching Fund Reduction | | | | | |

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

Timelines

| Design Permitting | 09/30/2018 |
|--|------------|
| Contract Initiation | 10/01/2018 |
| Construction Commencement | 01/01/2019 |
| Construction Completion and As-Built Certification | 06/30/2019 |

Data Collection Assessment:

X Other data collection: Lysimeters to collect infiltrated runoff from 3-4 events

FY2019 Cooperative Funding Initiative Application Form

| Project Name | Conservation- WRWSA Regional In | rigation System Au | idit Program Phas | se 5 | |
|--------------------------|-----------------------------------|--------------------|----------------------|---------------|------|
| Project Number | Q040 | | | | |
| Cooperator | WRWSA | | | | |
| Department | | | | | |
| Contact Person | Richard Owen | | | | |
| Address | 3600 W Sovereign Path | | | | |
| City Sate Zip | Lecanto, FL 34461 | | | | |
| Phone # | 352-527-5796 | | | | |
| Email | richardowen@wrwsa.org | | | | |
| Project Type: | | | | | |
| X Water Supply Wa | ater Quality Flood Protection | Natural Systems | | | |
| Strategic Initiatives: | | | | | |
| Water Quality Mainter | nance and Improvement | Water Quality I | Monitoring | | |
| Alternative Water Sup | pply | X Conservation | | | |
| Reclaimed Water | | Regional Wate | r Supply Planning | I | |
| Emergency Flood Res | sponse | Floodplain Mar | nagement | | |
| Minimum Flows and L | evel Establishment and Monitoring | Minimum Flows | s and Levels Rec | overy | |
| Natural Systems Cons | servation and Restoration | Natural System | ns Identification ar | nd Monitoring | |
| Indicate All Counties to | Benefit From Project: | | | | |
| Charlotte X Citrus | s Desoto Hardee | X Hernando | Highlands | Hillsborough | Lake |
| Levy Mana | atee X Marion Pasco | Pinellas | Sarasota | X Sumter | Polk |
| Project Description/Ben | efit/Cost | | | | |
| Description: | | | | | |

This is a continuation (fifth phase) of the program that has been co-funded by the SWFWMD in fiscal years 2011, 2013, 2015 and 2017. The project includes an education strategy; marketing; the administration of irrigation audits in Citrus and Hernando counties, eligible portions of Marion County, the Village Center Development District (VCDD) and the North Sumter County Utility Development District (NSCUDD) located in Sumter County within the SWFWMD; examination of pre- and post-audit water consumption by participants; follow-up site visits of approximately 25% of participants and a survey of participants to gauge implementation of recommendations; and preparation of a project report. Similar to past phases of the program, this phase will provide a base level of services (Core Program) to all participants. In addition to the Core Program this fifth phase may also offer enhanced program elements that were introduced in the currently ongoing fourth phase. These enhancements allow the contractor, in consultation with the local conservation coordinators, to offer implementation of select site-specific recommendations to homeowners. Because the phase four audits are still being implemented with a completion date of 09/30/2018, not enough experience has been gained to fully understand the costs and benefits of the enhanced program. A greater understanding will exist before the audits for this fifth phase are initiated. Therefore, it is proposed the scope of work for this project allow flexibility at this time for the exact composition of core and enhanced audits. The District project manager, with the input and advice of the WRWSA project manager and the local utility representatives, will have final authorization for the composition of core and enhanced audits. The proposed total program budget for FY 2019 is \$200,000. The number of homeowner audits that will be completed based on this budget will be a function of the number of Core or Enhanced audits selected. To estimate a range of potential audits based upon 100% core versus 100% enhanced, the average costs per core audit from Phase 3 and the costs incurred to-date for enhanced audits in phase 4 were examined. If only core audits are conducted, up to approximately 400 audits could be performed. If only enhanced audits are conducted, it is estimated approximately 250 audits could be performed. The actual number of audits to be completed should lie within this range. The project will include verification through inspection of the proper installation of efficiency devices by way of follow-up site visits and surveys concerning landscaping practices of a selection of participants. Twelve months of pre-audit water use will be compared to 12 months post-audit water use for all participants as a primary means of estimating water savings. The water savings will favorably affect groundwater and public water supply water demand. The project is located within the District's Northern Planning Area. The project is consistent with District priorities for cost-effectively reducing water demand. Water supply will be enhanced by providing residential users with rain sensors, where appropriate, thereby reducing the demand for potable water by implementing Florida-friendly landscaping practices.

Benefit:

Through Phase 3, the program has reached over 530 homeowners in Citrus, Hernando, Marion and Sumter counties; and is estimated to have saved over 132,000 gallons per day (48.4 million gallons per year) upon completion of Phase 3. The estimated cost/benefit ratio for the project calculated at an 8% annual rate of interest over five years is \$1.74 per 1,000 gallons, based on a total eligible project cost of \$200,000. Any Enhanced audit portion of the project is projected to save even more water based on average percentage savings generated by the SJRWMD FAWCET Model. Operational based residential irrigation audits (Core Program) average an approximate 25% outdoor water savings. A repair based irrigation audit (Enhanced Program) can generate up to a 40% outdoor water savings. The project is consistent with the District's Strategic Plan. It supports the District's

Conservation Strategic Initiative, specifically including: Promote water conservation through public engagement programs; Support research and implementation of conservation techniques and practices; and Utilize financial incentives to further encourage effective conservation practice. It also supports the District's Regional Priorities and Objectives for the Northern Region to "Ensure long-term sustainable water supply" and the specific objective to "increase conservation" in the region. The long-term benefits that can be derived from this project include: a reduction in potable water consumed in the region; reduction in the future demands of the region; and improved ground and surface water quality in the region. Conservation also helps to maximize the utilization of existing water supply infrastructure. The project may also have additional benefits of reducing the use of fertilizer for lawns and landscapes through the project's promotion of Florida Friendly Landscaping.

Cost:

The total project cost is \$200,000, with the WRWSA contributing \$100,000 and the SWFWMD contributing \$100,000. The cost per irrigation audit will depend upon the number of Core versus Enhanced audits selected by the participating utilities as approved by the District and the composition of any Enhanced audits.

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

The WRWSA has historically and is currently actively engaged in water conservation within its four-county region. The WRWSA has a Water Conservation Grants Program and has been co-funding water conservation initiatives since 1999 for its member governments. Comprehensive public supply water conservation programs are being partially co-funded by the Authority with Citrus, Hernando and Marion counties through the Authority's grant program. The WRWSA is currently co-funding with the District the Regional Irrigation System Audit Program. This program targets inefficient landscaping practices and irrigation systems for optimization leading to measurable water savings. Education and information is provided by a professional certified irrigation contractor. Participants currently include Citrus, Hernando and Marion counties and several utilities within The Villages in Sumter County, a major water utility in Sumter County. Sumter County does not operate its own water utility. This effort is currently in Phase 4, which is the largest phase to-date and includes enhancements to the program whereby participants can have irrigation system efficiencies implemented. The Authority also serves as a facilitator and participant in coordination and collaboration among the various public supply utilities in its region for water conservation and other activities. The Authority owns the Charles A. Black (CAB) water supply facilities in Citrus County, a major water supply source in the county. The CAB facilities are operated and maintained by Citrus County pursuant to a water supply contract. The Authority maintains a renewal and replacement fund to ensure the CAB facilities are capable of meeting growing water supply demands.

| ensure the CAB facilities are capa | ble of meeting growin | g water supply de | emands. | |
|------------------------------------|------------------------|-------------------|------------------|-------------------|
| Funding Source | Prior Funding | FY2018 Budget | FY2019 Budget | Future Funding |
| Applicant Share | | | 100,000 | 100,000 |
| General Fund-District Wide | | | 100,000 | 100,000 |
| Total | | | 200,000 | 200,000 |
| Matching Fund Reduction | | | | |
| Check here if requesting a red | uction in matching fun | ds requirement p | ursuant to s.288 | .06561, F.S. |
| Timelines | | | | |
| April 2022 - May 2022 | | | | |
| Milestone | | | | Projected Date |
| Prepare Final Report | | | | 05/18/2022 |
| December 2018 - September 20 |)20 | | | |
| Milestone | | | | Projected Date |
| Conduct Audits | | | | 09/30/2020 |
| February 2019 - December 202 | 0 | | | |

January 2022 - March 2022

Conduct Follow-ups and Survey

Milestone

MilestoneProjected DatePrepare Draft Report03/31/2022

Projected Date

12/31/2020

July 2018 - November 2018

MilestoneProjected DateSelect Contractor11/21/2018

October 2021 - December 2021

MilestoneProjected DatePre- and Post-Audit Water Use Analysis12/31/2021

Data Collection Assessment:

X Other data collection: Water use and savings data

FY2019 Cooperative Funding Initiative Application Form

| Project Name Project Number | Springs- Marion Cou Q043 | inty State Road | I 200 Sewer Force | main Extension | | |
|---|--|---|---|--|---|---|
| Cooperator | Marion County | | | | | |
| Department | Marion County Utilitie | es Denartment | | | | |
| Contact Person | Kevin Vickers | co Bepartment | | | | |
| Address | 11800 S Us Hwy 44 | 1 | | | | |
| City Sate Zip | Belleview, FL 34420 | | | | | |
| Phone # | 352-307-4624 | | | | | |
| Email | Kevin.Vickers@mari | oncountyfl.org | | | | |
| Project Type: | | | | | | |
| X Water Supply X Wa | ater Quality | Protection | Natural Systems | | | |
| Strategic Initiatives: | | | | | | |
| X Water Quality Mainter | nance and Improveme | ent | Water Quality | Monitoring | | |
| Alternative Water Sup | pply | | Conservation | | | |
| X Reclaimed Water | | | Regional Wate | er Supply Planning | I | |
| Emergency Flood Res | sponse | | Floodplain Mar | nagement | | |
| Minimum Flows and L | ₋evel Establishment ar | nd Monitoring | Minimum Flow | s and Levels Rec | overy | |
| Natural Systems Cons | servation and Restora | tion | Natural Systen | ns Identification a | nd Monitoring | |
| Indicate All Counties to | Benefit From Projec | t: | | | | |
| Charlotte Citrus | s Desoto | Hardee | Hernando | Highlands | Hillsborough | Lake |
| Levy | atee X Marion | Pasco | Pinellas | Sarasota | Sumter | Polk |
| Project Description/Ben | efit/Cost | | | | | |
| Description: | | | | | | |
| This is a project to construproject looks to accomplis further installation of septi sending new sewer flows approximately 24 existing is presently in the planning available through this corr would be required to consystem, the flow will be tree | sh three objectives: (1 ic tanks by making set to a WWTF that produced developments that ut ag/design of the forcentidor. There are appropect to this new forcentidor. |) connect existi wer available to uces and distrib illize septic tanh nain from SW 9 ximately 29 und nain when they | ng development so new development outes reclaimed was so that the County 15th Street Road to developed parcels are developed. O | o that septic tanks and (3) reduce cater to customers. would look to con 5 SW 73rd Street to totaling approximate connected to | can be abandoned, groundwater withdraw Presently there are nect with this project Road which would m nately 200 acres of la the Marion County w | (2) prevent vals by The Count ake sewer and, that vastewater |
| Benefit: | | | ,p. p. c. | | | |
| This project will accomplis from being constructed by produces and delivers receivelopment, calculating development that may tak sewer is also not possible | y new development ar claimed water to custo the benefit from the co ke place on the vacant | nd (3) reduce growners. Due to the onversion to ce | roundwater withdrane unknown water entral sewer is not | awal sending sew use and sanitary possible. Addition | er flows to a WWTF t sewer flows for the e ally, the type/nature | that existing of the |
| Cost: | | | | | | |
| Please see attached State and the septic to sewer fo applying for State Springs awarded, the requested S | or the 24 existing deve s Funding (as shown i | elopments. The n the Funding 1 | total estimated co rable). The County | st is about \$2.49 i y acknowledges th | million. Marion Count at if State Springs F | ty is also |
| Describe your complement flood protection ordinary | | eloping, imple | ementing and enf | orcing water cor | servation, water qu | ality and |
| In 2013, the Marion Count average reclaimed water I equal to or greater than 10 | limitation for total nitro | ogen by 2019: (| a) 3.0 mg/L for fac | cilities having a de | sign average daily flo | ow (DADF) |

| | - | , | _ |
|---|---|---|---|
| r | ٦ | | ٦ |
| | | | |

FY2018

Budget

240,000

Prior Funding

76,734

Funding Source

Applicant Share

State Springs Funding

Withlacoochee River

FY2019

Budget

928,758

1,245,492

1,245,492

Future Total Funding

1,245,492

1,245,492 1,245,492

Funding

Total 76,734 240,000 3,419,742 3,736,476

Matching Fund Reduction

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

Timelines

1.Design

| .9 | |
|--|----------------|
| Milestone | Projected Date |
| Contact Existing Development Owners for Septic to Sewer Connection | 03/31/2018 |
| 30% Design | 03/31/2018 |
| Easement Acquisition | 03/31/2018 |
| 60% Design | 05/31/2018 |
| 90% Design (includes draft RFB) | 06/30/2018 |
| Proposed Final Design (includes final RFB and Permitting) | 08/31/2018 |
| District Verifications | 10/31/2018 |
| | |

2.Request for Bids

| Milestone | Projected Date |
|---------------------------------|----------------|
| RFB Advertisement | 11/30/2018 |
| RFB Evaluation and Award | 01/31/2019 |
| Notice to Proceed to Contractor | 02/28/2019 |

3.Construction

| Milestone | Projected Date |
|--|----------------|
| Commence Construction | 03/31/2019 |
| Substantial Completion | 03/31/2020 |
| Construction Completion and Certifications | 04/30/2020 |

Data Collection Assessment:

X Land Survey X Other data collection: Discharge Monitoring Reports

FY2019 Cooperative Funding Initiative Application Form

| Project Name | Study-Citrus County Septic to S | Sewer Co | onversion Feas | sibility Study | | | |
|---|---|--|---|---|-------------------------------|--|-------------------------------------|
| Project Number | Q044 | | | | | | |
| Cooperator | Citrus County | | | | | | |
| Department | Operations And Projects | | | | | | |
| Contact Person | Christina Malmberg | | | | | | |
| Address | 3600 W. Sovereign Path | | | | | | |
| City Sate Zip | Lecanto, FL 344619014 | | | | | | |
| Phone # | 352-527-7616 | | | | | | |
| Email | Christina.Malmberg@citrusboc | C.COIII | | | | | |
| Project Type: Water Supply X Wa | ter Quality Flood Protection | Nat | tural Systems | | | | |
| Strategic Initiatives: | | | | | | | |
| X Water Quality Mainten | ance and Improvement | | Nater Quality I | Monitoring | | | |
| Alternative Water Supp | ply | | Conservation | | | | |
| Reclaimed Water | | F | Regional Wate | r Supply Planni | ing | | |
| Emergency Flood Res | ponse | F | Floodplain Mar | nagement | | | |
| Minimum Flows and Lo | evel Establishment and Monitori | ng 🔲 l | Minimum Flows | s and Levels Re | ecovery | / | |
| Natural Systems Cons | ervation and Restoration | 1 | Natural System | ns Identification | and M | onitoring | |
| Indicate All Counties to | Benefit From Project: | | | | | | |
| Charlotte X Citrus | B Desoto Harde | ee | Hernando | Highlands | | Hillsborough | Lake |
| Levy Mana | tee Marion Pasco | | Pinellas | Sarasota | | Sumter | Polk |
| Project Description/Bend | efit/Cost | | | | | | |
| Description: | | | | | | | |
| residential and commercia will address issues such a | unty Water Resources Departm Il lots served with OSTDS's to a s, but not limited to, sewer techr d out conversion plan, 5-year fur | central v | wastewater tre - cost comparis | atment collections ons, existing w | on syste vastewa | em. The septic to ater system infras | sewer pla structure, 5 |
| This septic to sewer plan | will enable to County to create a cost effective to construct. The | | | | | | |
| | proposed infrastructure needed | | | | | | |
| Cost: | | | | | | | |
| | septic to sewer conversion stud | • | | | | | |
| Describe your complement flood protection ordinan | entary efforts in developing, ir ces. | mpleme | nting and enfo | orcing water c | onserv | vation, water qua | ality and |
| sensor rebates, low flow to rebate opportunities in cor provides water conservation Citrus County Water Cons | nurces Department has successfollet programs and the irrigation njunction with the Florida Yards a con information through bill insert ervation division is charged with ct, and has issued citations and | evaluation and Neigns and information and enforcing and enforcement and en | on and audit playborhoods proformation proving the watering | roject. Other inc ograms. The wa ided at the Citro g restrictions as | centive ater cor us Cou | programs includenservation progra nty Water Resou | e various am also rces office |
| regulations are part of the | d a Floodplain Ordinance as req Citrus County Land Developme I development is required to be | nt Code | . The floodplaii | n regulations ar | | | |
| Funding Source | Prior Funding | FY201 Budg | | | uture nding | Total Funding | |
| Applicant Share | | J | | ,000 | _ | 200,000 | |
| Withlacoochee River | | | 200 | ,000 | | 200,000 | |
| Total | | | 400 | ,000 | | 400,000 | |
| Matching Fund Reduction | on | | | | | | |

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

Timelines

| Engineering Consultant NTP | 02/15/2019 |
|---------------------------------------|------------|
| Develop Scope of Work | 10/01/2019 |
| Engineering Consultant RFQ | 10/30/2019 |
| Finalize Septic to Sewer Study Report | 02/15/2020 |

Data Collection Assessment:

