Tampa Bay Region

FY2021 Cooperative Funding Initiative

Final Project Evaluations and Rankings
Southwest Florida Water Management District  
Tampa Bay Region  
FY2021 Proposed Project Funding  
April 8, 2020

<table>
<thead>
<tr>
<th>Projects Ranked 1A Priority</th>
<th>Project</th>
<th>Cooperator</th>
<th>Project Name</th>
<th>Rank</th>
<th>District Prior Funding</th>
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Projects Ranked High Priority

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Southwest Florida Water Management District  
Tampa Bay Region  
FY2021 Proposed Project Funding  
April 8, 2020

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Recommended for Funding Total: $26,175,573 $33,864,132

Projects Ranked Low and/or Not Recommended

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Not Recommended for Funding Total: $750,000 $250,000

Tampa Bay Region Total: $26,925,573 $34,114,132
**Risk Level:** Type 3

**Project No. N748**

**City of Tampa**

**SW IMP – Flood Protection – Dale Mabry Henderson Trunkline – Upper Peninsula Watershed Drainage Improvements**

**Multi-Year Contract:** Yes, Year 6 of 6

### Description

**Description:** This project is for design, permitting and construction to improve the existing drainage system for the Dale Mabry Highway and Henderson Boulevard area in the City of Tampa to relieve commercial and street flooding. An alternative analysis was completed in 2012 and identified this project as a preferred alternative. Funding was approved in FY2016 for 30% design and third-party review. The District required a third-party review because the conceptual construction estimate is greater than $5 million dollars. The FY2021 funding request is to complete construction.

**Measurable Benefit:** The contractual Measurable Benefit will be completion of design, permitting and construction of the drainage conveyance system BMP’s to reduce flooding in approximately 533 acres of highly urbanized basin. Construction will be in accordance with the permitted plans.

**Costs:** Total project cost: $36,500,000 (design, third-party review, permitting, and construction)
- City of Tampa: $18,250,000
- District: $18,250,000 with $15,000,000 budgeted in previous years and $3,250,000 requested in FY2021.

### Evaluation

**Application Quality:** High

Application included all the required information identified in the CFI Guidelines.

**Project Benefit:** High

The Resource Benefit of this project will reduce the existing flooding problem during the 2.33 year, 24-hour storm event. Structure and street flooding currently occurs in the project area and the project impacts the regional or intermediate drainage system. Ancillary water quality benefits were demonstrated along with the flood protection benefits.

**Cost Effectiveness:** High

Benefit/Cost ratio is greater than or equal to 1. Benefits include avoided damages to structures and roads.

**Past Performance:** High

Based upon an assessment of the schedule and budget for the 8 ongoing projects.

**Complementary Efforts:** High

Cooperator’s Community Rating System class is 5 and is in the 5 or less range.

**Project Readiness:** High

The project is ongoing and on schedule.

### Strategic Goals

**Strategic Goals:** High

**Strategic Initiative – Flood Protection Maintenance and Improvement:** Develop and implement programs, projects and regulations to maintain and improve flood protection, and operate District flood control and conservation structures to minimize flood damage while preserving the water resource.

**Tampa Bay Region Priority:** Flood Protection: Improve flood protection in Lake Tarpon, the Pithlachascotee, Anclote and Hillsborough Rivers and Pinellas County coastal watersheds

### Overall Ranking and Recommendation

This ongoing project was approved for continuation by the Governing Board on March 27, 2018 following the third party review for a total project cost of $36,500,000. This project will provide flood protection for structures and streets during the 2.33 year, 24-hour storm event. Project area serves as the main evacuation route for South Tampa.

### Funding

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Project No. N773  SW IMP – Flood Protection – Cypress Street Outfall Regional Stormwater Improvements
City of Tampa

**Risk Level:** Type 3  
**Multi-Year Contract:** Yes, Year 5 of 5

### Description

**Description:** Design, permitting and construction to improve the existing drainage system for the West Riverfront and North Hyde Park areas in the City of Tampa to relieve structure and street flooding. This project is for construction of Phase 2 of the project which extends the Phase 1 outfall which was funded solely by the City of Tampa. Funding was approved in FY2017 for 30% design and third-party review. The District required a third-party review because the conceptual construction estimate is greater than $5 million dollars. The FY2021 funding request is to complete construction.

**Measurable Benefit:** The contractual Measurable Benefit will be completion of design, permitting and construction of the proposed project to construct drainage conveyance system BMP’s to reduce flooding in approximately 895 acres of highly urbanized basin. Construction will be in accordance with the permitted plans.

**Costs:**
- Total project cost: $34,516,215 (design, third-party review, permitting and construction)
  - City of Tampa: $17,258,108
  - District: $17,258,107 with $9,500,000 budgeted in previous years and $7,758,107 requested in FY2021.

### Evaluation

**Application Quality:** High  
Application included all the required information identified in the CFI Guidelines.

**Project Benefit:** High  
The Resource Benefit of this project will reduce the existing flooding problem during the 25 year, 24-hour storm event. Structure and street flooding currently occurs in the project area and the project impacts the regional or intermediate drainage system. Ancillary water quality benefits were demonstrated along with the flood protection benefits.

**Cost Effectiveness:** High  
Benefit/Cost ratio is greater than or equal to 1. Benefits include avoided damages to structures and roads.

**Past Performance:** High  
Based upon an assessment of the schedule and budget for the 8 ongoing projects.

**Complementary Efforts:** High  
Cooperator’s Community Rating System class is 5 and is in the 5 or less range.

**Project Readiness:** High  
The project is ongoing and on schedule.

### Strategic Goals

**Strategic Goals:** High  

- **Strategic Initiative – Flood Protection Maintenance and Improvement:** Develop and implement programs, projects and regulations to maintain and improve flood protection, and operate District flood control and conservation structures to minimize flood damage while preserving the water resource.

- **Tampa Bay Region Priority:** Flood Protection: Improve flood protection in Lake Tarpon, the Pithlachascotee, Anclote and Hillsborough Rivers and Pinellas County coastal watersheds

### Overall Ranking and Recommendation

This ongoing project was approved for continuation by the Governing Board on April 23, 2019 following the third party review for a total project cost of $34,516,215. This project will provide flood protection for structures and streets during the 25 year, 24-hour storm event.

### Funding

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Project No. N904  WMP - City of St. Petersburg Watershed Management Plan
City of St. Petersburg  FY2021

Risk Level: Type 3  Multi-Year Contract: Yes, Year 3 of 3

Description
Watershed Management Plan (WMP) for the City of St. Petersburg in Pinellas County, through and including floodplain analysis, Level of Service determination (LOS), Surface Water Resource Assessment (SWRA), and Best Management Practices (BMPs) alternative analysis. The City of St. Petersburg last completed a citywide stormwater master plan in 1994. FY2021 funding will be used to complete the floodplain analysis, LOS, SWRA, and BMP alternatives analysis.

Measurable Benefit:
The contractual Measurable Benefit will be the completion of a watershed model and floodplain analysis including information that is critical to better identify risk of flood damage, opportunities to improve water quality, and cost effective alternatives.

Costs:
Total project cost: $1,800,000
City of St. Petersburg: $900,000
District: $900,000 with $631,250 budgeted in previous years and $268,750 requested in FY2021.

Evaluation
Application Quality: High
Application included all the required information identified in the CFI Guidelines.

Project Benefit: High
The WMP will analyze flood problems that exist in the watershed. Currently, flood analysis models are not available or are over 10 years old, and the watershed includes regional or intermediate stormwater systems.

Cost Effectiveness: High
Project cost per square mile is in the low-range of historic costs (less than $30,000/sq mi) for WMPs completed in urban watersheds. Cost effectiveness for multi-year projects is based upon the metrics in place when project was originally approved.

Past Performance: Medium
Based upon an assessment of the schedule and budget for the 9 ongoing projects.

Complementary Efforts: High
Cooperator's Community Rating System class is 5 and is in the 5 or better range.

Project Readiness: High
Project is ongoing and on schedule.

Strategic Goals
Strategic Goals: High
Strategic Initiative - Water Quality Maintenance and Improvement: Develop and implement programs, projects and regulations to maintain and improve water quality.

Strategic Initiative - Floodplain Management: Collect and analyze data to determine local and regional floodplain information, flood protection status and trends to support floodplain management decision and initiatives.

Tampa Bay Region Priority: Improve Lake Thonotosassa, Tampa Bay, Lake Tarpon and Lake Seminole.

Tampa Bay Region Priority: Flood Protection: Improve flood protection in Lake Tarpon, the Pithlachascotee, Anclote and Hillsborough Rivers and Pinellas County coastal watersheds

Overall Ranking and Recommendation
Fund as 1A Priority.
This ongoing project identifies flood risk in an area with no detailed study information available. The resulting product will be utilized for flood insurance determination, help implement solutions that alleviate flood risk and improve water quality, and enhance the planning of future development in the project area.

Funding

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</tr>
<tr>
<td>Tampa Bay Water</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Risk Level:** Type 3  
**Multi-Year Contract:** Yes, Year 3 of 3

**Description:** Design, permitting and construction to equip existing manual weir gates located on top of the larger flood control gates with remote-controlled motorized actuators at the Tampa Bypass Canal Structures 160, 161, and 162. The structures are owned by the Army Corps of Engineers, the flood control gates are operated by the District, and the weir gates are operated by Tampa Bay Water.

**Measurable Benefit:** The contractual Measurable Benefit will be the design, permitting, and construction of remote controlled, motorized gate actuators at Tampa Bypass Canal Structures S-160, S-161 and S-162. Construction will be done in accordance with the permitted plans.

**Costs:** Total project cost: $1,032,000 (Design, permitting and construction)  
Tampa Bay Water: $516,000,  
District: $516,000, with $427,500 budgeted in previous years, $88,500 requested in FY2021

**Evaluation**

<table>
<thead>
<tr>
<th>Application Quality: High</th>
<th>Application included all the required information identified in the CFI Guidelines.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Benefit: High</td>
<td>The benefit of this project will allow a more controlled release of water from pool to pool at the Tampa Bypass Canal, and reduce water loss due to flood management. Automating the weir gates will improve the water quality by better controlling the use of the larger flood control gates which stirs up bottom sediment in the canal. This project will reduce the frequency of District manual operation of the larger flood control gates.</td>
</tr>
<tr>
<td>Cost Effectiveness: High</td>
<td>The cost effectiveness is reasonable and consistent with the District’s average costs for similar projects.</td>
</tr>
<tr>
<td>Past Performance: High</td>
<td>Based upon an assessment of the schedule and budget for the 2 ongoing projects.</td>
</tr>
<tr>
<td>Complementary Efforts: High</td>
<td>Applicant provides wholesale water supplies to the counties of Hillsborough, Pasco, and Pinellas, as well as the cities of Tampa, St. Petersburg, and New Port Richey.</td>
</tr>
<tr>
<td>Project Readiness: High</td>
<td>Project is ongoing and on schedule.</td>
</tr>
</tbody>
</table>

**Strategic Goals**

| Strategic Goals: High | Strategic Initiative - Conservation: Enhance efficiencies in all water-use sectors to ensure beneficial use. |
|-----------------------| Strategic Initiative - Minimum Flows and Levels Establishment and Recovery: Establish and monitor MFLs, and, where necessary, develop and implement recovery plans to prevent significant harm and reestablish the natural ecosystem. |
| Tampa Bay Region Priority: Improve Lake Thonotosassa, Tampa Bay, Lake Tarpon and Lake Seminole. |

**Overall Ranking and Recommendation**

Fund as 1A Priority. This ongoing project will provide an economic method for water conservation and increased alternative water supply. Project cost has increased by $368,750 (36%) based upon construction bids; however, TBW will provide additional funds for the project.

**Funding**

<table>
<thead>
<tr>
<th>Funding Source</th>
<th>Prior FY2021</th>
<th>Future</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>District</td>
<td>$427,500</td>
<td>$88,500</td>
<td>$516,000</td>
</tr>
<tr>
<td>Tampa Bay Water</td>
<td>$427,500</td>
<td>$88,500</td>
<td>$516,000</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$855,000</strong></td>
<td><strong>$177,000</strong></td>
<td><strong>$1,032,000</strong></td>
</tr>
</tbody>
</table>
## Project No. N970
### WMP - South Creek Watershed Management Plan
#### Pinellas County

<table>
<thead>
<tr>
<th>Risk Level:</th>
<th>Type 3</th>
<th>Multi-Year Contract:</th>
<th>Yes, Year 3 of 3</th>
</tr>
</thead>
</table>

### Description
- **Description:** Complete a Watershed Management Plan (WMP) for the South Creek Watershed in Pinellas County, through and including Watershed Evaluation, Floodplain Analysis, Level of Service (LOS) Determination, Surface Water Resource Assessment (SWRA), and Best Management Practice (BMP) Alternatives Analysis. FY2021 funding will be used to complete Floodplain Analysis, LOS Determination, SWRA, and BMP Alternatives Analysis.
- **Measurable Benefit:** The contractual Measurable Benefit will be the completion of a WMP that identifies floodplains, establishes LOS, performs SWRA, and evaluates BMPs to address flooding and water quality concerns in the watershed.

### Costs:
- **Total project cost:** $750,000
  - **Pinellas County:** $375,000
  - **District:** $375,000 with $225,000 budgeted in previous years and $150,000 requested in FY2021.

### Evaluation
- **Application Quality:** High
  - Application included all the required information identified in the CFI Guidelines.
- **Project Benefit:** High
  - The WMP will analyze flooding problems that exist in the watershed. Currently, flood analysis models are not available or are over 10 years old, and the watershed includes regional or intermediate stormwater systems.
- **Cost Effectiveness:** Low
  - Project cost per square mile is in the high-range of historic costs (more than $50,000/sq mi) for WMPs completed in urban watersheds. This is a heavily urbanized watershed and will require a high level of effort during the watershed evaluation and floodplain analysis phases of the project. Cost effectiveness for multi-year projects is based upon the metrics in place when project was originally approved.
- **Past Performance:** High
  - Based upon an assessment of the schedule and budget for the 12 ongoing projects.
- **Complementary Efforts:** High
  - Cooperate's Community Rating System class is 5 and is in the 5 or better range.
- **Project Readiness:** High
  - Project is ongoing and on schedule.

### Strategic Goals
- **Strategic Goal:** High
  - **Strategic Initiative - Water Quality Assessment and Planning:** Collect and analyze data to determine local and regional water quality status and trends to support resource management decisions and restoration initiatives.
  - **Strategic Initiative - Floodplain Management:** Collect and analyze data to determine local and regional floodplain information, flood protection status and trends to support floodplain management decision and initiatives.
  - **Tampa Bay Region Priority:** Flood Protection: Improve flood protection in Lake Tarpon, the Pithlachascotee, Anclote and Hillsborough Rivers and Pinellas County coastal watersheds.

### Overall Ranking and Recommendation
- Fund as 1A Priority.
  - This ongoing project identifies flood risk in an area with no detailed study information available. The resulting product will be utilized for flood zone determination, to help implement solutions that alleviate flood risk and improve water quality, and to enhance the planning of future development in the project area. The higher cost is associated with the watershed evaluation and floodplain analysis effort in this highly urbanized watershed.

### Funding

<table>
<thead>
<tr>
<th>Funding Source</th>
<th>Prior FY2021</th>
<th>Future FY2021</th>
<th>Total FY2021</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pinellas County</td>
<td>$225,000</td>
<td>$150,000</td>
<td>$375,000</td>
</tr>
<tr>
<td>District</td>
<td>$225,000</td>
<td>$150,000</td>
<td>$375,000</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$450,000</strong></td>
<td><strong>$300,000</strong></td>
<td><strong>$750,000</strong></td>
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</table>
Project No. N993
Pasco County

WMP - Cypress Creek WMP Update

Risk Level: Type 4
Multi-Year Contract: Yes, Year 3 of 3

Description

Description: Complete a Watershed Management Plan (WMP) update for the Cypress Creek watershed in Pasco County, through and including Watershed Evaluation, Floodplain Analysis, Level of Service (LOS) Determination, and Best Management Practice (BMP) Alternative Analysis. FY2021 funding will be used to complete Floodplain Analysis, LOS Determination, and BMP Alternative Analysis.

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

Costs: Total project cost: $1,800,000
Pasco County: $900,000
District: $900,000 with $648,000 budgeted in previous years and $252,000 requested in FY2021.

Evaluation

Application Quality: High
Application included all the required information identified in the CFI Guidelines.

Project Benefit: High
The WMP will re-evaluate flooding problems that exist in the watershed. Currently flood analysis models are available and the watershed has experienced substantial changes since last study, and the watershed includes regional or intermediate stormwater systems.

Cost Effectiveness: High
Project cost per square mile is in the low range of historic costs (less than $22,000 / sq mi) for WMP updates completed in mixed watersheds. Cost effectiveness for multi-year projects is based upon the metrics in place when project was originally approved.

Past Performance: Medium
Based upon an assessment of the schedule and budget for the 18 ongoing projects.

Complementary Efforts: Medium
Cooperator's Community Rating System class is 6 and is in the 6 to 9 range.

Project Readiness: High
Project is ongoing and on schedule.

Strategic Goals

Strategic Goals: High
Strategic Initiative - Floodplain Management: Collect and analyze data to determine local and regional floodplain information, flood protection status and trends to support floodplain management decision and initiatives.
Tampa Bay Region Priority: Flood Protection: Improve flood protection in Lake Tarpon, the Pithlachascotee, Anclote and Hillsborough Rivers and Pinellas County coastal watersheds.

Overall Ranking and Recommendation

Fund as 1A Priority.
This ongoing project updates flood risk in an area that has experienced substantial changes since last study. The resulting product will be utilized for flood zone determination, to help implement solutions that alleviate flood risk, and enhance the planning of future development in the project area.

Funding

<table>
<thead>
<tr>
<th>Funding Source</th>
<th>Prior</th>
<th>FY2021</th>
<th>Future</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>District</td>
<td>$648,000</td>
<td>$252,000</td>
<td>$0</td>
<td>$900,000</td>
</tr>
<tr>
<td>Pasco County</td>
<td>$648,000</td>
<td>$252,000</td>
<td>$0</td>
<td>$900,000</td>
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<tr>
<td>Total</td>
<td>$1,296,000</td>
<td>$504,000</td>
<td>$0</td>
<td>$1,800,000</td>
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</table>
WMP - Plant City Watershed Management Plan

### Description

- **Watershed Management Plan (WMP) and stormwater inventory, floodplain delineation, and Best Management Practices (BMP) alternative analysis for the Plant City Watershed using digital topographic information, ERP data, and landuse updates.**
- Two studies have been completed within the City Limits, the Eastside Canal Improvements in 2001 and the Westside Canal Improvements in 2008. Information from those studies will be utilized and incorporated into the new WMP. FY2021 funding will be used for the completion of the floodplain delineation and the BMP alternatives analysis.

### Measurable Benefit

- The contractual Measurable Benefit will be the completion of a WMP and stormwater inventory, floodplain delineation and Best Management Practices Alternative Analysis for the Plant City Watershed in the City of Plant City using digital topographic information, ERP data and landuse updates.

### Costs

- **Total project cost:** $1,300,000
- **City of Plant City:** $650,000
- **District:** $650,000 with $450,000 budgeted in previous years and $200,000 requested in FY2021.

### Evaluation

- **Application Quality:** High
  - Application included all the required information identified in the CFI Guidelines.
- **Project Benefit:** High
  - The WMP will analyze flooding problems that exist in the watershed. Currently, flood analysis models are not available or over 10 years old, and the watershed includes regional or intermediate stormwater systems.
- **Cost Effectiveness:** Medium
  - Project costs per square mile is in the mid-range of historic costs ($30,001 to $50,000/sq. mi.) for WMPs completed in urban watersheds. Cost effectiveness for multi-year projects is based upon the metrics in place when project was originally approved.
- **Past Performance:** High
  - Based upon an assessment of the schedule and budget for the 1 ongoing project.
- **Complementary Efforts:** Medium
  - Cooperator’s Community Rating System class is 8 and is in the 6 to 9 range.
- **Project Readiness:** High
  - The project is ongoing and on schedule.

### Strategic Goals

- **Strategic Goals:** High
  - **Strategic Initiative - Floodplain Management:** Collect and analyze data to determine local and regional floodplain information, flood protection status and trends to support floodplain management decision and initiatives.
  - **Tampa Bay Region Priority:** Flood Protection: Improve flood protection in Lake Tarpon, the Pithlachascotee, Anclote and Hillsborough Rivers and Pinellas County coastal watersheds

### Overall Ranking and Recommendation

- **Fund as 1A Priority.**
  - This ongoing project identifies flood risk in an area with a combination of limited detailed study information and no detailed study information. The resulting product will be utilized for flood zone determination, to help implement solutions that alleviate flood risk, and enhance the planning of future development in the project area.

### Funding

<table>
<thead>
<tr>
<th>Funding Source</th>
<th>Prior FY2021</th>
<th>FY2021</th>
<th>Future</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>District</td>
<td>$450,000</td>
<td>$200,000</td>
<td>$0</td>
<td>$650,000</td>
</tr>
<tr>
<td>City of Plant City</td>
<td>$450,000</td>
<td>$200,000</td>
<td>$0</td>
<td>$650,000</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$900,000</strong></td>
<td><strong>$400,000</strong></td>
<td><strong>$0</strong></td>
<td><strong>$1,300,000</strong></td>
</tr>
</tbody>
</table>
### Description
The project will include design, permitting, and construction activities that will increase Tampa Bay Water’s (TBW) pumping capacity of alternative water supply by 10-12 MGD average and 20-22 MGD maximum at the Regional Facility Site High Service Pump Station. Project involves the installation of a new 24 MGD (2,000 HP) split case pump, structural modifications to support the pump, variable frequency drive, motor and ancillary electrical and mechanical equipment.

### Measurable Benefit
The contractual Measurable Benefit will be the design, permitting and construction of a high service pump that will increase Tampa Bay Water’s pumping capacity of alternative water supply at the Regional Facility Site High Service Pump Station. Construction will be done in accordance with the permitted plans.

### Costs
<table>
<thead>
<tr>
<th>Total Project Cost</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>$2,400,000</td>
<td>Design, permitting, and construction</td>
</tr>
<tr>
<td>Tampa Bay Water:</td>
<td>$1,200,000</td>
</tr>
<tr>
<td>District:</td>
<td>$1,200,000 with $1,122,500 requested in previous years and $77,500 requested in FY2021</td>
</tr>
</tbody>
</table>

### Evaluation

<table>
<thead>
<tr>
<th>Application Quality</th>
<th>High</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application included all the required information identified in the CFI Guidelines.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Project Benefit</th>
<th>High</th>
</tr>
</thead>
<tbody>
<tr>
<td>The benefit of this project is the increase in Tampa Bay Water’s pumping capacity of alternative water supply at the Regional Facility Site High Service Pump Station, which is projected to increase the annual average capacity by 10-12 MGD over 20 years. The increased pumping capacity is part of a larger, overall program to increase the resiliency of the Tampa Bay region’s water supply system and maximize the use of permitted surface water capacity when it is available. This additional pumping capacity will also prepare the system for the next increment of supply that will be developed as part of the Long-Term Master Water Supply Plan.</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Cost Effectiveness</th>
<th>High</th>
</tr>
</thead>
<tbody>
<tr>
<td>The project is cost effective relative to comparable projects for increasing existing capacity.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Past Performance</th>
<th>High</th>
</tr>
</thead>
<tbody>
<tr>
<td>Based upon an assessment of the schedule and budget for the 2 ongoing projects.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Complementary Efforts</th>
<th>High</th>
</tr>
</thead>
<tbody>
<tr>
<td>The applicant provides wholesale alternative water supplies to the counties of Hillsborough, Pasco and Pinellas, as well as the cities of Tampa, St. Petersburg, and New Port Richey.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Project Readiness</th>
<th>High</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project is ongoing and on schedule.</td>
<td></td>
</tr>
</tbody>
</table>

### Strategic Goals

<table>
<thead>
<tr>
<th>Strategic Goals</th>
<th>High</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Strategic Initiative - Regional Water Supply Planning:</strong> Identify, communicate and promote consensus on the strategies and resources necessary to meet future reasonable and beneficial water supply needs.</td>
<td></td>
</tr>
<tr>
<td><strong>Strategic Initiative - Alternative Water Supplies:</strong> Increase development of alternative sources of water to ensure groundwater and surface water sustainability.</td>
<td></td>
</tr>
<tr>
<td><strong>Tampa Bay Region Priority:</strong> Implement Minimum Flow and Level (MFL) Recovery Strategies.</td>
<td></td>
</tr>
</tbody>
</table>

### Overall Ranking and Recommendation

This ongoing project increases alternative water supply pumping capacity in the Tampa Bay Region and is cost effective.

### Funding

<table>
<thead>
<tr>
<th>Funding Source</th>
<th>Prior FY2021</th>
<th>FY2021</th>
<th>Future</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tampa Bay Water</td>
<td>$1,122,500</td>
<td>$77,500</td>
<td>$0</td>
<td>$1,200,000</td>
</tr>
<tr>
<td>District</td>
<td>$1,122,500</td>
<td>$77,500</td>
<td>$0</td>
<td>$1,200,000</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$2,245,000</strong></td>
<td><strong>$155,000</strong></td>
<td><strong>$0</strong></td>
<td><strong>$2,400,000</strong></td>
</tr>
</tbody>
</table>
**Project No. Q034**

**WMP - Brooker Creek Watershed Management Plan**

**Pinellas County**

**Risk Level:** Type 3  
**Multi-Year Contract:** Yes, Year 3 of 3

### Description

**Description:** Complete a Watershed Management Plan (WMP) for the Brooker Creek Watershed in Pinellas County, through and including Watershed Evaluation, Floodplain Analysis, Level of Service (LOS) Determination, Surface Water Resource Assessment (SWRA), and Best Management Practice (BMP) Alternatives Analysis. FY2021 funding will be used to complete Floodplain Analysis, LOS Determination, SWRA, and BMP Alternatives Analysis.

**Measurable Benefit:** The contractual Measurable Benefit will be the completion of a WMP that identifies floodplains, establishes LOS, performs SWRA, and evaluates BMPs to address flooding and water quality concerns in the watershed.

### Costs

- Total project cost: $900,000  
  - Pinellas County: $450,000  
  - District: $450,000 with $300,000 budgeted in previous years and $150,000 requested in FY2021.

### Evaluation

**Application Quality:** High  
**Project Benefit:** High  
**Cost Effectiveness:** Low

- **Application:** Application included all the required information identified in the CFI Guidelines.
- **Project Benefit:** The WMP will analyze flooding problems that exist in the watershed. Currently, flood analysis models are not available or are over 10 years old, and the watershed includes regional or intermediate stormwater systems.
- **Cost Effectiveness:** Project cost per square mile is in the high-range of historic costs (more than $50,000/sq mi) for WMPs completed in mixed watersheds. However, additional effort is required to incorporate the five adjacent watershed studies to this WMP. Cost effectiveness for multi-year projects is based upon the metrics in place when project was originally approved.

**Past Performance:** High  
**Complementary Efforts:** High  
**Project Readiness:** High

- **Past Performance:** Based upon an assessment of the schedule and budget for the 12 ongoing projects.
- **Complementary Efforts:** Cooperator's Community Rating System class is 5 and is in the 5 or better range.
- **Project Readiness:** Project is ongoing and on schedule.

### Strategic Goals

**Strategic Goals:** High

- **Strategic Initiative - Water Quality Assessment and Planning:** Collect and analyze data to determine local and regional water quality status and trends to support resource management decisions and restoration initiatives.
- **Strategic Initiative - Floodplain Management:** Collect and analyze data to determine local and regional floodplain information, flood protection status and trends to support floodplain management decision and initiatives.
- **Tampa Bay Region Priority:** Flood Protection: Improve flood protection in Lake Tarpon, the Pithlachascotee, Anclote and Hillsborough Rivers and Pinellas County coastal watersheds

### Overall Ranking and Recommendation

**Fund as 1A Priority.** This ongoing project identifies flood risk in an area with existing flood analysis more than 10 years old. The resulting product will be utilized for flood zone determination, to help implement solutions that alleviate flood risk and improve water quality, and to enhance the planning of future development in the project area. The higher cost for this urban watershed is justified due to the flooding in the watershed over the past few years and priority to have reasonable floodplain results incorporating modeling of the five adjacent watershed studies located in Pinellas, Pasco, and Hillsborough Counties.

### Funding

<table>
<thead>
<tr>
<th>Funding Source</th>
<th>Prior FY2021</th>
<th>Future</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pinellas County</td>
<td>$300,000</td>
<td>$150,000</td>
<td>$450,000</td>
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<tr>
<td>District</td>
<td>$300,000</td>
<td>$150,000</td>
<td>$450,000</td>
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<tr>
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<td><strong>$300,000</strong></td>
<td><strong>$900,000</strong></td>
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<td>Yes, 2 of 2</td>
</tr>
<tr>
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</table>

### Description

Construction of new stormwater management ponds at the northeast corner of Grosse Avenue and Cypress Street, and south of Spruce Street; the expansion of existing ponds at the northwest corner of Levis Avenue and Pine Street (serving Tarpon Springs Elementary School) and at the southwest corner of Levis Avenue and Center Street; and the installation of associated stormwater collection systems. FY2021 funding will be used to complete construction.

### Measurable Benefit:
The contractual Measurable Benefit will be the construction of stormwater conveyance and storage systems to reduce flooding within the benefit area. Construction will be in accordance with the permitted plans.

### Costs:
- Total project cost: $2,736,800 (construction)
- City of Tarpon Springs: $1,368,400
- District: $1,368,400 with $901,500 budgeted in previous years and $466,900 requested in FY2021.

### Evaluation

- **Application Quality:** Medium
  - Application included most of the required information identified in the CFI guidelines. District PM had to work with cooperator to obtain remaining required information.

- **Project Benefit:** High
  - The Resource Benefit of this project will reduce the existing flooding problem during the 100-year, 24-hour storm event. Structure and street flooding currently occurs in the project area and the project impacts the regional or intermediate drainage system. Ancillary water quality benefits were demonstrated along with the flood protection benefits.

- **Cost Effectiveness:** High
  - Benefit/Cost ratio is greater than or equal to 1. Benefits include avoided damages to structures and roads.

- **Past Performance:** Medium
  - Based upon an assessment of the schedule and budget for the 3 ongoing projects.

- **Complementary Efforts:** Medium
  - Cooperator’s Community Rating System is 7 and is in the 6 to 9 range.

- **Project Readiness:** High
  - Project is ongoing and on schedule.

### Strategic Goals

- **Strategic Initiative - Water Quality Maintenance and Improvement:** Develop and implement programs, projects and regulations to maintain and improve water quality.

- **Strategic Initiative – Flood Protection Maintenance and Improvement:** Develop and implement programs, projects and regulations to maintain and improve flood protection, and operate District flood control and conservation structures to minimize flood damage while preserving the water resource.

- **Tampa Bay Region Priority:** Flood Protection: Improve flood protection in Lake Tarpon, the Pithlachascotee, Anclote and Hillsborough Rivers and Pinellas County coastal watersheds.

### Overall Ranking and Recommendation

- **Fund as 1A Priority.** The project area has experienced severe roadway and structure flooding problems, including one hurricane evacuation route. This ongoing project will reduce structure and street flooding during the 100 year, 24-hour storm event by constructing new stormwater conveyance and storage ponds.

### Funding

<table>
<thead>
<tr>
<th>Funding Source</th>
<th>Prior FY2021</th>
<th>Future FY2021</th>
<th>Total FY2021</th>
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</thead>
<tbody>
<tr>
<td>District</td>
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<td>$466,900</td>
<td>$1,368,400</td>
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<tr>
<td>City of Tarpon Springs</td>
<td>$901,500</td>
<td>$466,900</td>
<td>$1,368,400</td>
</tr>
<tr>
<td>Total</td>
<td>$1,803,000</td>
<td>$933,800</td>
<td>$2,736,800</td>
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</table>
### Description

A feasibility study to further assess expanding the existing Regional Surface Water Treatment Plant and increasing the use of associated surface water supplies to maximize the available yield for Tampa Bay Water's (TBW) regional water supplies. The analysis will explore tasks such as capacity evaluation, field testing of treatment processes, modeling, conceptual design of new surface water treatment plant, conceptual cost and site plan development. Expanding the Regional Surface Water Treatment Plan is one of the options under consideration to assist supplying 10-12 mgd identified in the 2018 Long-term Master Water Plan Update.

### Measurable Benefit

The contractual Measurable Benefit will be the completion of the feasibility study. TBW is exploring options or a combination of options to provide 20 mgd to meet future demands in the Tampa Bay Area for the 2020-2040 planning horizon.

### Costs

- Total project cost $550,000 (feasibility study)
- Tampa Bay Water share $275,000
- District: $275,000 with $225,000 budgeted in previous years, $50,000 requested in FY2021

### Evaluation

- Application Quality: High
- Application included all the required information identified in the CFI Guidelines.

- Project Benefit: High
- The benefit of this project will provide information for TBW to make a decision on what water supply options are the most efficient and cost effective to meet the region’s demands of approximately 20 mgd for the future.

- Cost Effectiveness: High
- The cost effectiveness is reasonable and consistent with previous cooperative funding average costs for similar projects.

- Past Performance: High
- Based upon an assessment of the schedule and budget for 2 ongoing projects.

- Complementary Efforts: High
- The cooperator provides wholesale water supplies to counties of Hillsborough, Pasco, and Pinellas, as well as the cities of Tampa, St. Petersburg and New Port Richey. TBW plans and coordinates conservation programming in the Tampa Bay region. TBW has implemented a demand management project that offers financial incentives and services to customers for up to ten conservation activities.

- Project Readiness: High
- Project is ongoing and on schedule.

### Strategic Goals

- Strategic Goals: High
- **Strategic Initiative - Regional Water Supply Planning**: Identify, communicate and promote consensus on the strategies and resources necessary to meet future reasonable and beneficial water supply needs.
- **Strategic Initiative - Alternative Water Supplies**: Increase development of alternative sources of water to ensure groundwater and surface water sustainability.
- **Tampa Bay Region Priority**: Implement Minimum Flow and Level (MFL) Recovery Strategies.

### Overall Ranking and Recommendation

Fund as 1A Priority. This project contributes to development of the next water supply project to meet future demands for the Tampa Bay Region. The study will provide information for TBW to choose the most efficient and cost effective project for the region.

### Funding

<table>
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### Description
Further assess the feasibility of expanding the existing Desalination Water Treatment Plant to maximize the available yield for Tampa Bay Water’s (TBW) regional water supplies. The analysis will explore tasks such as pilot scale testing of alternate pre-treatment systems, water quality sampling, preliminary permitting and modeling as well as conceptual cost and site plan development. Expanding the Desalination Water Treatment Plant is one of the options under consideration to assist in supplying 10-15 mgd identified in the Long-Term Master Water Plan Update.

### Measurable Benefit
The contractual Measurable Benefit will be the completion of the feasibility study. TBW is exploring options or a combination of options to provide 20 mgd to meet future demands in the Tampa Bay Area for the 2020-2040 planning horizon.

### Costs
- **Total Project Cost**: $3,000,000 (feasibility study)
- **TBW share**: $1,500,000
- **District**: $1,500,000 with $550,000 budgeted in previous years, $950,000 requested in FY2021.

### Evaluation
- **Application Quality**: High
  - Application included all the required information identified in the CFI Guidelines.
- **Project Benefit**: High
  - The benefit of this project will provide information for TBW to make a decision on what water supply options are the most efficient and cost effective to meet the region’s demands of approximately 20 mgd for the future.
- **Cost Effectiveness**: High
  - The cost effectiveness is reasonable and consistent with previous cooperative funding average costs for similar projects.
- **Past Performance**: High
  - Based upon an assessment of the schedule and budget for the 2 ongoing projects.
- **Complementary Efforts**: High
  - The cooperator provides wholesale water supplies to counties of Hillsborough, Pasco, and Pinellas as well as the cities of Tampa, St. Petersburg, and New Port Richey.
- **Project Readiness**: High
  - Project is ongoing and on schedule.

### Strategic Goals
- **Strategic Initiative - Regional Water Supply Planning**: Identify, communicate and promote consensus on the strategies and resources necessary to meet future reasonable and beneficial water supply needs.
- **Strategic Initiative - Alternative Water Supplies**: Increase development of alternative sources of water to ensure groundwater and surface water sustainability.
- **Tampa Bay Region Priority**: Implement Minimum Flow and Level (MFL) Recovery Strategies.

### Overall Ranking and Recommendation
Fund as 1A Priority. This project contributes to development of the next water supply project to meet future demands for the Tampa Bay Region. The study will provide information for TBW to choose the most efficient and cost effective project for the region.

### Funding
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**Project No. Q083**  
**WMP - Klosterman Bayou Watershed Management Plan**

**Risk Level:** Type 3  
**Multi-Year Contract:** Yes, 2 of 2

**Description:** Complete a Watershed Management Plan (WMP) for the Klosterman Bayou watershed in Pinellas County, through and including Watershed Evaluation, Floodplain Analysis, Level of Service (LOS) Determination, Surface Water Resource Assessment (SWRA), and Best Management Practice (BMP) Alternative Analysis. FY2021 funding will be used to perform the Floodplain Analysis and BMP Alternatives Analysis.

**Measurable Benefit:** The contractual Measurable Benefit will be the completion of a WMP that identifies floodplains, establishes LOS, and evaluates BMPs to address flooding concerns in the Klosterman Bayou watershed.

**Costs:**  
Total project cost: $300,000  
Pinellas County: $150,000  
District: $150,000 with $100,000 budgeted in previous years and $50,000 requested in FY2021.

**Application Quality:** High  
Application included all the required information identified in the CFI Guidelines.

**Project Benefit:** High  
The WMP will analyze flooding problems that exist in the watershed. Currently, flood analysis models are not available or are over 10 years old, and the watershed includes regional or intermediate stormwater systems.

**Cost Effectiveness:** Medium  
Project cost per square mile is within the mid-range of historic costs ($69,100 - $93,500 / sq mi) for WMPs completed in urban watersheds.

**Past Performance:** High  
Based upon an assessment of the schedule and budget for the 12 ongoing projects.

**Complementary Efforts:** High  
Cooperator's Community Rating system class is 5 and is in the 5 or less range.

**Project Readiness:** High  
Project is ongoing and on schedule.

**Strategic Goals**

**Strategic Goals:** High  
- **Strategic Initiative - Water Quality Assessment and Planning:** Collect and analyze data to determine local and regional water quality status and trends to support resource management decisions and restoration initiatives.
- **Strategic Initiative - Floodplain Management:** Collect and analyze data to determine local and regional floodplain information, flood protection status and trends to support floodplain management decision and initiatives.
- **Tampa Bay Region Priority:** Flood Protection: Improve flood protection in Lake Tarpon, the Pithlachascotee, Anclote and Hillsborough Rivers and Pinellas County coastal watersheds

**Overall Ranking and Recommendation**

**Fund as 1A Priority.** This ongoing project identifies flood risk in an area with no detailed study information available. The resulting product will be utilized for flood zone determination, help implement solutions that alleviate flood risk and improve water quality, and enhance the planning of future development in the project area.

**Funding**

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<tr>
<th>Funding Source</th>
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**Study - Belleair Brackish Feasibility and Testing**

<table>
<thead>
<tr>
<th>Risk Level:</th>
<th>Type 2</th>
<th>Multi-Year Contract:</th>
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**Description**

A hydrogeologic investigation to determine the feasibility of developing a brackish groundwater wellfield and deep injection well in the Upper Floridan aquifer. The project includes the construction of three wells (exploratory deep injection well, and two monitor wells) and associated testing to characterize the proposed production zone.

**Measurable Benefit:** The contractual Measurable Benefit will be the completion of a report that produces hydrologic information on the Upper Floridan aquifer for the purpose of potential additional alternative water supply.

**Costs:**

- Total project cost $1,763,350
- Town of Belleair share $881,675
- District: $881,675; with $705,340 budgeted in previous years, $176,335 requested in FY2021.

**Evaluation**

- **Application Quality:** High
  - Application included all the required information identified in the CFI guidelines.
- **Project Benefit:** High
  - The benefit of this project is enhancement of groundwater resource data to improve groundwater models and management of the aquifer in the Northern Tampa Bay WUCA and to assess the potential for additional alternative water supply.
- **Cost Effectiveness:** Medium
  - The study costs are slightly higher than test well construction and hydrologic data gathering activities in other District funded feasibility studies.
- **Past Performance:** Low
  - Based upon an assessment of the schedule and budget for the 1 ongoing project.
- **Complementary Efforts:** Medium
  - Cooperator per capita is between 101 and 150 gpcd which is a medium ranking.
- **Project Readiness:** High
  - Project is new FY2020 project and is expected to start on schedule.

**Strategic Goals**

- **High** Strategic Initiative - Alternative Water Supplies: Increase development of alternative sources of water to ensure groundwater and surface water sustainability.
- **Tampa Bay Region Priority:** Implement Minimum Flow and Level (MFL) Recovery Strategies.

**Overall Ranking and Recommendation**

- Fund as 1A Priority.
  - Project is a groundwater study to evaluate brackish water as a potential alternative water source to meet the strategic initiative of developing AWS to sustain existing freshwater sources in the Northern Tampa Bay WUCA.

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### Project No. Q115

**WMP - East Pasco WMP Update**

**Pasco County**

**FY2021**

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<td>Multi-Year Contract:</td>
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#### Description

**Description:**
Complete a Watershed Management Plan (WMP) update for the East Pasco watershed in Pasco County, through and including Watershed Evaluation, Floodplain Analysis, Level of Service (LOS) Determination, and Best Management Practise (BMP) Alternative Analysis. FY2021 funding will be used to complete the floodplain analysis, LOS, and BMP Alternatives Analysis.

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

#### Costs:

- **Total project cost:** $800,000
- **Pasco County:** $400,000
- **District:** $400,000 with $200,000 budgeted in previous years and $200,000 requested in FY2021.

#### Evaluation

<table>
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<td>Complementary Efforts:</td>
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<td>Project Readiness:</td>
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</table>

#### Strategic Goals

- **Strategic Goals:** High
- **Strategic Initiative - Floodplain Management:** Collect and analyze data to determine local and regional floodplain information, flood protection status and trends to support floodplain management decision and initiatives.
- **Tampa Bay Region Priority:** Flood Protection: Improve flood protection in Lake Tarpon, the Pithlachascotee, Anclote and Hillsborough Rivers and Pinellas County coastal watersheds

#### Overall Ranking and Recommendation

- **Fund as 1A Priority.**

This ongoing project updates flood risk in an area with existing flood analysis that is 5 to 10 years old. The resulting product will be utilized for flood zone determination, to help implement solutions that alleviate flood risk, and enhance the planning of future development in the project area. The East Pasco watershed is one of the District's top 20 priority watersheds for WMP updates.

#### Funding

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<tr>
<th>Funding Source</th>
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Project No. Q116 | WMP - Roosevelt Creek Watershed Management Plan
---|---
Pinellas County | FY2021

**Risk Level:** Type 3  
**Multi-Year Contract:** Yes, Year 2 of 3

### Description
- Complete a Watershed Management Plan (WMP) update for the Roosevelt watershed in Pinellas County, through and including Watershed Evaluation, Floodplain Analysis, Level of Service (LOS) Determination, Surface Water Resource Assessment (SWRA), and Best Management Practice (BMP) Alternative Analysis. FY2021 funding will be used to complete the Watershed Evaluation and begin the Floodplain Analysis.

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

### Costs
- **Total project cost:** $800,000  
  - Pinellas County: $400,000  
  - District: $400,000 with $100,000 budgeted in previous years, $150,000 requested in FY2021, and $150,000 anticipated to be requested in future years.

### Evaluation
- **Application Quality:** High  
  - Application included all the required information identified in the CFI Guidelines.

- **Project Benefit:** High  
  - The WMP will analyze flooding problems that exist in the watershed. Currently, flood analysis models are over 10 years old, and the watershed includes regional or intermediate stormwater systems. The Roosevelt Creek watershed is one of the District’s top 20 priority watersheds for WMP updates.

- **Cost Effectiveness:** High  
  - Project cost per square mile is below the mid-range of historic costs ($68,000 / sq mi or less) for WMPs completed in urban watersheds.

- **Past Performance:** High  
  - Based upon an assessment of the schedule and budget for the 12 ongoing projects.

- **Complementary Efforts:** High  
  - Cooperator’s Community Rating system class is 5 and is in the 5 or less range.

- **Project Readiness:** High  
  - Project is ongoing and on schedule.

### Strategic Goals
- **Strategic Initiative - Water Quality Assessment and Planning:** Collect and analyze data to determine local and regional water quality status and trends to support resource management decisions and restoration initiatives.

- **Strategic Initiative - Floodplain Management:** Collect and analyze data to determine local and regional floodplain information, flood protection status and trends to support floodplain management decision and initiatives.

- **Tampa Bay Region Priority:** Flood Protection: Improve flood protection in Lake Tarpon, the Pithlachascotee, Anclote and Hillsborough Rivers and Pinellas County coastal watersheds

### Overall Ranking and Recommendation
- This ongoing project updates flood risk in an area with existing flood analysis that is over 10 years old. The resulting product will be utilized for flood zone determination, to help implement solutions that alleviate flood risk and improve water quality, and enhance the planning of future development in the project area. The Roosevelt Creek watershed is one of the District’s top 20 priority watersheds for WMP updates.

### Funding
<table>
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<th>Funding Source</th>
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<tr>
<td>Description</td>
<td>Review existing watershed data and conduct additional sampling to assess nutrient loading into the McKay Creek, Allen's Creek, and Curlew Creek watersheds using isotope analysis and development of a conceptual plan to reduce the nutrient sources.</td>
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<tr>
<td>Costs</td>
<td>The contractual Measurable Benefit will be the completion of this study.</td>
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<td>Costs</td>
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<tr>
<td>Costs</td>
<td>District: $100,000 with $40,000 budgeted in previous years, $45,000 requested in FY2021, and $15,000 anticipated to be requested in future years.</td>
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<td>Evaluation</td>
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<tr>
<td>Evaluation</td>
<td>Project Benefit: High The benefit of this project is the identification of nutrient loading into the McKay Creek, Allen's Creek, and Curlew Creek watersheds. All three watersheds are impaired for nutrients and McKay Creek and Curlew Creek have nutrient TMDLs in place. Curlew Creek watershed drains into northern Clearwater Harbor, McKay Creek watershed drains to southern Clearwater Harbor, and Allen's Creek watershed drains to Old Tampa Bay, a SWIM Priority Waterbody.</td>
<td></td>
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<tr>
<td>Evaluation</td>
<td>Cost Effectiveness: High The cost effectiveness for this study is comparable to past projects.</td>
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<tr>
<td>Evaluation</td>
<td>Past Performance: High Based upon an assessment of the schedule and budget for the 12 ongoing projects.</td>
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<tr>
<td>Evaluation</td>
<td>Complementary Efforts: High Applicant has an active storm water utility that collects fees.</td>
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<td>Evaluation</td>
<td>Project Readiness: High Project is ongoing and on schedule.</td>
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<tr>
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<td>Strategic Goals: High</td>
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<td>Strategic Goals</td>
<td>Strategic Initiative - Water Quality Assessment and Planning: Collect and analyze data to determine local and regional water quality status and trends to support resource management decisions and restoration initiatives.</td>
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<td>Strategic Goals</td>
<td>Tampa Bay Region Priority: Improve Lake Thonotosassa, Tampa Bay, Lake Tarpon and Lake Seminole.</td>
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<tr>
<td>Overall Ranking and Recommendation</td>
<td>Fund as 1A Priority. The ongoing study is cost effective and will continue to assess nutrients discharging into Clearwater Harbor and Old Tampa Bay, a SWIM priority water body.</td>
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**Project No. N949**

**City of Tampa**

**SW IMP – Flood Protection – Southeast Seminole Heights Flood Relief**

**FY2021**

<table>
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<tr>
<th>Risk Level:</th>
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<th>Multi-Year Contract:</th>
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**Description**

Design, permitting, and construction of regional stormwater improvements to serve an area of approximately 780 acres of urban environment discharging into the Hillsborough River south of the Hillsborough River Dam in the Southeast Seminole Heights area of the City of Tampa. The City’s intent is to construct and implement several flood relief efforts in the watershed to alleviate frequent and dangerous flooding on critical evacuation routes and in residential neighborhoods. These flood relief efforts include upsizing existing pipes, installing higher capacity trunklines, and adding stormwater treatment systems for water quality and quantity purposes. Funding was approved in FY2019 for 30% design and third-party review. The District required a third-party review as this project has a conceptual construction estimate greater than $5 million dollars. The FY2021 funding request is for completion of design and to begin construction.

**Measurable Benefit:**

The contractual Measurable Benefit will be the design, permitting, and construction of drainage conveyance system BMPs to reduce flooding in approximately 780 acres of highly urbanized basin. Construction will be in accordance with permitted plans.

**Costs:**

Total project cost: $23,500,000 (design, third-party review, permitting and construction)

City of Tampa: $11,750,000

District: $11,750,000 with $500,000 approved in previous years, $3,500,000 requested in FY2021, and $7,750,000 anticipated to be requested in future years.

**Evaluation**

**Application Quality:** High

Application included all the required information identified in the CFI Guidelines.

**Project Benefit:** High

The Resource Benefit of this project, if constructed, will reduce the existing flooding problem during the 5 year, 8-hour storm event. Structure and street flooding currently occurs in the project area and the project impacts the regional or intermediate drainage system. Ancillary water quality benefits were demonstrated along with the flood protection benefits.

**Cost Effectiveness:** Medium

Benefit/Cost ratio is less than 1, but greater than or equal to 0.7. Benefits include avoided damages to structures and roads.

**Past Performance:** High

Based on an assessment of the schedule and budget for the 8 ongoing projects.

**Complementary Efforts:** High

Cooperator’s Community Rating System class is 5 and is in the 5 or less range.

**Project Readiness:** High

The project is ongoing and on schedule.

**Strategic Goals**

**Strategic Goals:** High

- **Strategic Initiative - Water Quality Maintenance and Improvement:** Develop and implement programs, projects and regulations to maintain and improve water quality.
- **Strategic Initiative – Flood Protection Maintenance and Improvement:** Develop and implement programs, projects and regulations to maintain and improve flood protection, and operate District flood control and conservation structures to minimize flood damage while preserving the water resource.
- **Tampa Bay Region Priority:** Flood Protection: Improve flood protection in Lake Tarpon, the Pithlachascotee, Anclote and Hillsborough Rivers and Pinellas County coastal watersheds

**Overall Ranking and Recommendation**

The City is anticipated to complete the 30% design and third party review by October 2020. Contractually, the City will need Governing Board approval to proceed beyond this task. Anticipating favorable information from the third-party review, and with the understanding that the Governing Board will need to provide approval to proceed, staff is recommending FY2021 funding for design and construction. If constructed, this project will provide flood protection for structures and streets during the 5 year, 8-hour storm event.

**Funding**

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<th>Funding Source</th>
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*Conceptual cost estimate, subject to Governing Board Approval*
**Description**

**Design:** Design, permitting and construction of 100 - 150 acre treatment wetland at the McIntosh Park site and enhancements to the existing 45 acre wetland treatment system. The City's intent is to expand the capacity of the existing McIntosh Park wetland project to capture larger volumes of stormwater for additional water quality treatment and flood protection. The City also proposes to route 1.5 mgd of reclaimed water through the system to improve function of the treatment wetland. Funding was approved in FY20 for 30% design and third-party review. The District required a third-party review as this project has a conceptual construction estimate greater than $5 million. The FY2021 funding request is to complete design and permitting.

**Measurable Benefit:** The contractual Measurable Benefit will be the design, permitting, and construction/restore of at least 100 acres of treatment wetlands through the delivery of 1.5 mgd (ten year average) of reclaimed water.

**Costs:**

- Total conceptual project cost: $9,353,700 (Design, third-party review, permitting, construction)
- Plant City share: $4,676,850
- District share: $4,676,850 with $337,175 budgeted in previous years, $287,175 requested in FY2021, and $4,052,500 anticipated to be requested in future years.

**Evaluation**

- **Application Quality:** Medium - Application included most of the required information in the CFI guidelines. District PM had to work with cooperator to obtain remaining required information.
- **Project Benefit:** High - The Resource Benefit of the project, if constructed, is the reduction of pollutant loads to Blackwater Creek, the Hillsborough River, and Tampa Bay by an estimated 2,700 lbs/year of TN and 1,080 lbs/year of TP. There will be no monitoring or performance testing requirements.
- **Cost Effectiveness:** High - The estimated cost/lb of TN removed is below the historical average of $176/lb and the estimated cost/lb of TP removed is below the historical average $1,498/lb.
- **Past Performance:** High - Based upon an assessment of the schedule and budget for 1 ongoing project.
- **Complementary Efforts:** Medium - Applicant currently maintains open spaces within its park system, has a land management plan, and has other complementary efforts. Plant City currently operates a stormwater maintenance program, has an active street sweeper program, pet waste ordinance, and other complementary water quality efforts.
- **Project Readiness:** High - Project is a new FY20 project and is expected to start on schedule.

**Strategic Goals**

- **Strategic Goal:** Strategic Initiative - Water Quality Maintenance and Improvement: Develop and implement programs, projects and regulations to maintain and improve water quality.
- **Tampa Bay Region Priority:** Improve Lake Thonotosassa, Tampa Bay, Lake Tarpon and Lake Seminole.

**Overall Ranking and Recommendation**

The city is anticipated to complete the 30% design and third-party review by December of 2020. Contractually, the City will need Governing Board approval to proceed beyond this task. Anticipating favorable information from the third party review, and with the understanding that the Governing Board will need to provide approval to proceed, Staff is recommending FY2021 funding to complete design and permitting. If constructed, this project will create 100-150 acres of treatment wetlands and reduce nutrient loading discharged to the Hillsborough River watershed, part of the Tampa Bay watershed, a SWIM priority water body.

**Funding**

<table>
<thead>
<tr>
<th>Funding Source</th>
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</table>

*Conceptual cost estimate, subject to Governing Board Approval*
| Description | Make available financial incentives to residential customers for the replacement of conventional toilets with high-efficiency toilets which use 1.28 gallons per flush or less and to commercial customers for the replacement of conventional toilets with ultra-low flow toilets which use 1.6 gallons per flush or less. This project will make available rebates and program administration for the replacement of approximately 100 high flow toilets. In addition, approximately 100 do-it-yourself conservation kits will be distributed. These include educational materials, low-flow showerheads, and leak detection dye tablets. Also included are educational materials, program promotion, and surveys necessary to ensure the success of the program. Should actual costs be less than anticipated, the Cooperator may perform more installations/rebates as the availability of funds allow. |
| Costs | Total Project Cost: $20,000  
City of Tarpon Springs: $10,000  
District: $10,000 |
| Evaluation | Application Quality: High  
Application included all the required information identified in the CFI guidelines.  
Project Benefit: High  
The benefit of this project is an estimated 3,143 gallons per day saved in the Northern Tampa Bay Water Use Caution Area (NTBWUCA).  
Cost Effectiveness: High  
Project cost effectiveness is below $3.00 per thousand gallons saved.  
Past Performance: Medium  
Based upon an assessment of the schedule and budget for the 3 ongoing projects.  
Complementary Efforts: Medium  
Cooperator per capita is between 75 and 125 gpcd.  
Project Readiness: High  
Project is ready to begin on or before December 1, 2020. |
| Strategic Goals | Strategic Goals: High  
Strategic Initiative - Conservation: Enhance efficiencies in all water-use sectors to ensure beneficial use.  
| Overall Ranking and Recommendation | Project will conserve potable water in the NTBWUCA and is cost effective. |
| Funding | | | FY2021 | Future | Total |
| Funding Source | Prior | District | City of Tarpon Springs | | |
| | | $0 | $10,000 | $0 | $10,000 |
| | | $0 | $10,000 | $0 | $10,000 |
| Total | $0 | $20,000 | $0 | $20,000 |
Risk Level: ASR – Pinellas County Chesnut Park ASR and Aquifer Recharge

Type 3

Multi-Year Contract: No

Description:
30% design, third-party review (TPR) and additional FY21 design and construction for this aquifer storage and recovery (ASR) and aquifer recharge (AR) project to divert excess surface water from Lake Tarpon to an existing ASR well and proposed AR facility to supplement the reclaimed water supply during dry periods, restore water level elevations in the NTBWUCA, and facilitate freshening of the aquifer. If constructed, this project would include design, permitting, construction, testing, and independent performance evaluation (IPE) of one recharge well, two monitoring wells, and surface facilities. District funding is for eligible FY21 design, including 30% design and TPR. The County will apply for future funding to complete design, permitting, construction, start-up, testing, and IPE.

Measurable Benefit:
The contractual measurable benefit will be completion of 30% design of this proposed project to divert excess surface water from Lake Tarpon to an existing ASR well and a proposed AR facility.

Costs:
Total project cost: $1,787,000 (30% design, TPR, and additional FY21 design and construction)
Pinellas County: $893,500
District: $893,500

The conceptual estimate for total project costs, including design, permitting, and construction, start-up, testing and IPE is $9,200,000. It is anticipated that the County will request future funds to complete design, permitting, construction, start-up, testing and IPE.

Evaluation:
Application Quality: Medium
Application included most of the required information identified in the CFI guidelines. District PM/CM had to work with the cooperator to obtain remaining information.

Project Benefit: High
If constructed, the project would diminish dry-weather reclaimed water shortages by increasing the reliability and resiliency of the North County Reclaimed Water System (NCRWS) through the use of ASR to store excess surface water from wet season to dry season with a minimum 5-year total recovery quantity of 300 MG. The project would also help restore water level elevations in the NTBWUCA and facilitate freshening of the aquifer through injection of excess surface water capable of achieving a 1 BG minimum recharge volume over a 5-year period. In addition, the project could provide a reduction of nutrients to Old Tampa Bay.

Cost Effectiveness: High
Costs are consistent with similarly funded District projects.

Past Performance: High
Based upon an assessment of the schedule and budget for the 12 ongoing projects.

Complementary Efforts: Medium
Pinellas County has a program in place that includes metering and an incentivized based reuse rate structure for high volume users.

Project Readiness: High
The project is ready to begin on or before December 1, 2020.

Strategic Goals:
Strategic Initiative - Reclaimed Water: Maximize beneficial use of reclaimed water to reduce demand on traditional water supplies.
Tampa Bay Region Priority: Improve Lake Thonotosassa, Tampa Bay, Lake Tarpon and Lake Seminole.

Overall Ranking and Recommendation:
Fund as High Priority. Results from 30% design and TPR will provide the District with information to confirm resource benefits and cost effectiveness. Contractually, the County will need Governing Board approval to proceed beyond 30% design and TPR. The County may pursue potential future net benefit or impact offset potable water supply based on this project. If pursued, the County will be contractually required to comply with District cooperative funding guidelines, policies, procedures, and water use permitting rules. The project would provide for optimization of reclaimed water to reduce reliance on fresh groundwater withdrawals and assist in restoring and freshening groundwater in the NTBWUCA.

Funding:

<table>
<thead>
<tr>
<th>Funding Source</th>
<th>Prior FY21</th>
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</table>

*Conceptual cost estimate, subject to Governing Board Approval
**Risk Level:** Type 2  
**Multi-Year Contract:** Yes, Year 1 of 3

### Description

**Description:** Third party review, design, permitting and construction of a potable water booster pump station to increase delivery capacity to the Regional Delivery Point of Connection at the Lithia Water Treatment Plant by connecting into an existing 30" Brandon-South Central Transmission Main. The new booster pump station will increase the net gain in transmission line flow by approximately 5 – 7 MGD. District funding is for third party review as this project has a conceptual construction estimate greater than $5 million dollars. The FY2021 funding request is to complete third party review and continue design if the Board approves the third party review.

**Measurable Benefit:** The contractual Measurable Benefit if constructed, will be that the project will increase the available alternative water supply by 5 – 7 MGD at the Lithia Point of Connection to support Tampa Bay Water’s (TBW) regional water supplies goals in order to meet projected regional demands.

**Costs:** Total conceptual project cost: $7,100,000 (third party review, design, permitting and construction)  
Tampa Bay Water: $3,550,000;  
District: $3,550,000 with $500,000 requested in FY2021, and $3,050,000 anticipated to be requested in future years.

### Evaluation

**Application Quality:** Medium  
Application included most of the required information identified in the CFI guidelines. District PM had to work with cooperator to obtain remaining required information.

**Project Benefit:** High  
The benefit of this project, if constructed, will be the improved regional distribution of alternative water supplies to the counties of Pasco, Pinellas and Hillsborough. The project will increase the available water supply by 5 – 7 MGD at the Lithia Point of Connection to support Tampa Bay regional water supply demands.

**Cost Effectiveness:** High  
The cost effectiveness is reasonable and consistent with previous cooperative funding average costs for similar projects.

**Past Performance:** High  
Based upon an assessment of the schedule and budget for the 2 ongoing projects.

**Complementary Efforts:** High  
Applicant provides wholesale drinking water to the counties of Hillsborough, Pasco and Pinellas and cities of New Port Richey, Tampa, and St. Petersburg.

**Project Readiness:** High  
Project is ready to begin on or before December 1, 2020.

### Strategic Goals

**Strategic Goals:** High  
- **Strategic Initiative - Regional Water Supply Planning:** Identify, communicate and promote consensus on the strategies and resources necessary to meet future reasonable and beneficial water supply needs.
- **Strategic Initiative - Alternative Water Supplies:** Increase development of alternative sources of water to ensure groundwater and surface water sustainability.

### Overall Ranking and Recommendation

Fund as High Priority. The applicant is anticipated to complete 30% design by October 2020 and requesting funds for third party review and to continue design and construction. Contractually, TBW will need Governing Board approval to proceed beyond third party review. Anticipating favorable information from the third party review, and with the understanding that the Governing Board will need to provide approval to proceed, Staff is recommending FY2021 funding for the third party review and the continuation of design. If constructed, the project will provide additional 5 – 7 MGD of alternative water supply to support Tampa Bay Regional water supply demands.

### Funding

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*Conceptual cost estimate, subject to Governing Board Approval
### Description
Complete a Watershed Management Plan (WMP) for the Coastal Zone 5 Watershed in Pinellas County, through and including Watershed Evaluation, Floodplain Analysis, Level of Service (LOS) Determination, Surface Water Resource Assessment (SWRA), and Best Management Practice (BMP) Alternatives Analysis. FY2021 funding will be used to begin the Watershed Evaluation phase.

### Measurable Benefit:
The contractual Measurable Benefit will be the completion of a WMP that identifies floodplains, establishes LOS, performs SWRA, and evaluates BMPs to address flooding and water quality concerns in the watershed.

### Costs:
- Total project cost: $575,000
- Pinellas County: $287,500
- District: $287,500 with $75,000 requested in FY2021 and $212,500 anticipated to be requested in future years.

### Evaluation
- **Application Quality:** High
  - Application included all the required information identified in the CFI Guidelines.
- **Project Benefit:** High
  - The WMP will analyze flooding problems that exist in the watershed. Currently, flood analysis models are not available or are over 10 years old, and the watershed includes regional or intermediate stormwater systems.
- **Cost Effectiveness:** Medium
  - Project cost per square mile is in the medium range of historic costs (between $69,000 and $93,500/sq mi) for WMPs completed in urban watersheds. The higher cost for this urban watershed is justified due to the flooding in the watershed over the past few years and priority to have reasonable floodplain results incorporating modeling of the adjacent watershed studies in Pinellas County.
- **Past Performance:** High
  - Based upon an assessment of the schedule and budget for the 12 ongoing projects.
- **Complementary Efforts:** High
  - Cooperator’s Community Rating System class is 5 and is in the 5 or better range.
- **Project Readiness:** High
  - Project is ready to begin on or before December 1, 2020.

### Strategic Goals
- **Strategic Initiative - Water Quality Assessment and Planning:** Collect and analyze data to determine local and regional water quality status and trends to support resource management decisions and restoration initiatives.
- **Strategic Initiative - Floodplain Management:** Collect and analyze data to determine local and regional floodplain information, flood protection status and trends to support floodplain management decision and initiatives.
- **Tampa Bay Region Priority:** Flood Protection: Improve flood protection in Lake Tarpon, the Pithlachascotee, Anclote and Hillsborough Rivers and Pinellas County coastal watersheds

### Overall Ranking and Recommendation
This project identifies flood risk in an area that does not have a flood risk model. The resulting product will be utilized for flood zone determination, to help implement solutions that alleviate flood risk and improve water quality, and to enhance the planning of future development in the project area. Fund as High Priority.

### Funding

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<tr>
<th>Funding Source</th>
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<td><strong>$425,000</strong></td>
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</table>
Project No. Q156

Pasco County

Risk Level: Type 2  Multi-Year Contract: No

Description

Construction of stormwater implementation Best Management Practices (BMPs) to increase the capacity of the existing outfall of the Port Richey Watershed from the vicinity of Ridge Road then north and west to the Gulf of Mexico to relieve structure and street flooding. Pasco County has completed the 30% design and will continue to move the design forward in order to begin and complete construction in FY2021.

Measurable Benefit:
The contractual Measurable Benefit will be the completion of construction of the drainage conveyance system BMPs to reduce flooding in approximately 3,776 acres of highly urbanized basin. Construction will be in accordance with the permitted plans.

Costs:
Total project cost: $2,300,000 (construction)
Pasco County: $1,150,000
District: $1,150,000 requested in FY2021.

Evaluation

Application Quality: Medium
Application included most of the required information identified in the CFI guidelines. District PM/CM had to work with cooperator to obtain remaining required information.

Project Benefit: High
The Resource Benefit of this project will reduce the existing flooding problem during the 2.33 year, 24-hour storm event. Structure and street flooding currently occurs in the project area and the project impacts the regional or intermediate drainage system. Ancillary water quality benefits were demonstrated along with the flood protection benefits.

Cost Effectiveness: Medium
Benefit/Cost ratio is less than 1, but greater than or equal to 0.7.

Past Performance: Medium
Based upon an assessment of the schedule and budget for the 18 ongoing projects.

Complementary Efforts: Medium
Cooperator's Community Rating System Class is 6 and is in the 6 to 9 range.

Project Readiness: High
Project is ready to begin on or before December 1, 2020.

Strategic Goals

Strategic Goals: High
Strategic Initiative – Flood Protection Maintenance and Improvement: Develop and implement programs, projects and regulations to maintain and improve flood protection, and operate District flood control and conservation structures to minimize flood damage while preserving the water resource.

Tampa Bay Region Priority: Flood Protection: Improve flood protection in Lake Tarpon, the Pithlachascotee, Anclote and Hillsborough Rivers and Pinellas County coastal watersheds

Overall Ranking and Recommendation

Fund as High Priority. This project will reduce flooding in an area that has experienced multiple recent flood events. Pasco County is funding the design and permitting effort in order to begin and complete construction in FY2021.

Funding

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<th>Funding Source</th>
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### Description

This project is for the construction of approximately 14,950 feet of reclaimed water transmission mains and other necessary appurtenances to supply approximately 410 single-family homes, 416 multi-family homes and 15 acres in the Pasco County reclaimed water service area and to enable supply to future planned subdivisions.

### Measurable Benefit

The contractual Measurable Benefit will be construction of a reclaimed water transmission main to supply of 465,000 gpd of reclaimed water for residential and common area irrigation for an anticipated 291,000 gpd of water savings within the Northern Tampa Bay Water Use Caution Area (NTBWUCA). Construction will be done in accordance with the permitted plans.

### Costs

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<tr>
<th>Description</th>
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<tbody>
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### Evaluation

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<tbody>
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<td>Project Benefit</td>
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<td>Cost Effectiveness</td>
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<td>Complementary Efforts</td>
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</tr>
<tr>
<td>Project Readiness</td>
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</tbody>
</table>

### Strategic Goals

- **Strategic Initiative - Alternative Water Supplies**: Increase development of alternative sources of water to ensure groundwater and surface water sustainability.
- **Strategic Initiative - Reclaimed Water**: Maximize beneficial use of reclaimed water to reduce demand on traditional water supplies.
- **Tampa Bay Region Priority**: Implement Minimum Flow and Level (MFL) Recovery Strategies.

### Overall Ranking and Recommendation

The project is recommended for funding as it reduces reliance on traditional supplies in the NTBWUCA, and is cost effective.

### Funding

<table>
<thead>
<tr>
<th>Funding Source</th>
<th>Prior</th>
<th>FY2021</th>
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</table>
### Risk Level:
Type 4

### Multi-Year Contract:
Yes, Year 1 of 2

### Description
Complete a Watershed Management Plan (WMP) for the City of Seminole in Pinellas County, through and including watershed evaluation including a full stormwater inventory, floodplain analysis, Level of Service determination (LOS), and Best Management Practices (BMPs) alternative analysis. FY2021 funding will be utilized to develop a comprehensive GIS based inventory of stormwater system and begin the Watershed Evaluation phase of the project.

### Measurable Benefit:
The contractual Measurable Benefit will be the completion of a WMP that identifies floodplains, establishes LOS, and evaluates BMPs to address flooding concerns in the City of Seminole Watershed.

### Costs:
- Total project cost: $500,000
  - City of Seminole: $250,000
  - District: $250,000 with $125,000 requested in FY2021 and $125,000 anticipated to be requested in future years.

### Evaluation
- **Application Quality:** High
  - Application included all of the required information identified in the CFI guidelines.
- **Project Benefit:** High
  - The WMP will analyze flooding problems that exist in the watershed. Currently, the flood analysis models are not available or over 10 years old, and the watershed includes regional or intermediate stormwater systems. The City watershed is one of the District’s top 20 priority watersheds for WMP updates.
- **Cost Effectiveness:** Medium
  - Project cost per square mile is in the medium range for costs (between $66,001 and $87,000/sq mi) for WMPs completed in urban watersheds.
- **Past Performance:** High
  - Based on the cooperator having no ongoing projects with the District they are ranked high.
- **Complementary Efforts:** Low
  - Cooperator does not participate in the Community Rating System.
- **Project Readiness:** High
  - Project will be ready to begin on or before December 1, 2020.

### Strategic Goals
- **Strategic Goals:** High
  - Strategic Initiative - Floodplain Management: Collect and analyze data to determine local and regional floodplain information, flood protection status and trends to support floodplain management decision and initiatives.
  - Tampa Bay Region Priority: Improve Lake Thonotosassa, Tampa Bay, Lake Tarpon and Lake Seminole.

### Overall Ranking and Recommendation
Fund as High Priority.

This project identifies flood risk in an area that does not have a flood risk model. The resulting product will be utilized for flood zone determination, to help implement solutions that alleviate flood risk, and to enhance the planning of future development in the project area. The higher cost for this urban watershed is justified due to the lack of infrastructure information required to create the best floodplain data in this highly urbanized area.

### Funding

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<tr>
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</table>

**Risk Level:** Type 3  
**Multi-Year Contract:** No

### Description

**Description:** Complete a feasibility study to identify solutions to flooding of roads and residential properties located along Zephyr Creek in Pasco County. The East Pasco Watershed Management Plan (WMP) model will be utilized to perform the analysis.

**Measurable Benefit:** The contractual Measurable Benefit will be the completion of a feasibility study identifying solutions to reduce flooding of roads and residential properties located along Zephyr Creek in the East Pasco Watershed.

### Costs:

- **Total project cost:** $150,000
- **Pasco County:** $75,000
- **District:** $75,000 requested in FY2021

### Evaluation

<table>
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<th>Application Quality</th>
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<th>Application included all the required information identified in the CFI Guidelines.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Benefit</td>
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<td>The project benefit is a feasibility study that will analyze flooding problems in the watershed. Currently, flood analysis models are available and are from 5 to 10 years old, and the watershed includes regional or intermediate stormwater systems.</td>
</tr>
<tr>
<td>Cost Effectiveness</td>
<td>High</td>
<td>Project cost is comparable to other prior projects with similar scopes.</td>
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<tr>
<td>Past Performance</td>
<td>Medium</td>
<td>Based upon an assessment of the schedule and budget for the 18 ongoing projects.</td>
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<td>Complementary Efforts</td>
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<td>Cooperator's Community Rating System class is 6 and is in the 6 to 9 range.</td>
</tr>
<tr>
<td>Project Readiness</td>
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### Strategic Goals

**Strategic Goals:** High  
**Strategic Initiative - Floodplain Management:** Collect and analyze data to determine local and regional floodplain information, flood protection status and trends to support floodplain management decision and initiatives.

**Tampa Bay Region Priority:** Flood Protection: Improve flood protection in Lake Tarpon, the Pithlachascotee, Anclote and Hillsborough Rivers and Pinellas County coastal watersheds.

### Overall Ranking and Recommendation

**Fund as High Priority:** The project will utilize an existing watershed model to complete a feasibility study to identify solutions to flooding of roads and residential properties located along Zephyr Creek. This area experienced flooding and damage to homes in recent years and is identified as a level of service deficiency in the East Pasco WMP.

### Funding

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<th>Funding Source</th>
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<td>Pasco County</td>
<td>$0</td>
<td>$75,000</td>
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<td><strong>$150,000</strong></td>
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</tr>
</tbody>
</table>
**Risk Level:** Type 3  
**Multi-Year Contract:** No

**Description**
Complete a feasibility study to identify solutions to flooding of roads and residential properties located in the Tammy Lane and Timber Lake Estates regional area. This area has experienced flooding and damage to homes and is identified as a level of service deficiency in the New River Watershed Management Plan (WMP). The project combines elements of a model update, cost benefit analysis with focus on mobile homes, and a feasibility study with quantifiable benefits.

**Measurable Benefit:**
The contractual Measurable Benefit will be the completion of a feasibility study identifying and quantifying solutions to reduce flooding of roads and residential properties located in the Tammy Lane and Timber Lake Estates developments.

**Costs:**
- Total project cost: $150,000
- Pasco County: $75,000
- District: $75,000 requested in FY2021.

**Evaluation**

<table>
<thead>
<tr>
<th>Application Quality</th>
<th>High</th>
<th>Application included all the required information identified in the CFI Guidelines.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Benefit</td>
<td>High</td>
<td>The project benefit is a feasibility study that will analyze flooding problems in the watershed. Currently, flood analysis models are available and are from 5 to 10 years old, and the watershed includes regional or intermediate stormwater systems.</td>
</tr>
<tr>
<td>Cost Effectiveness</td>
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<td>Project cost is comparable to other prior projects with similar scopes.</td>
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<tr>
<td>Past Performance</td>
<td>Medium</td>
<td>Based upon an assessment of the schedule and budget for the 18 ongoing projects.</td>
</tr>
<tr>
<td>Complementary Efforts</td>
<td>Medium</td>
<td>Cooperator's Community Rating System class is 6 and is in the 6 to 9 range.</td>
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<tr>
<td>Project Readiness</td>
<td>High</td>
<td>Project is ready to begin on or before December 1, 2020.</td>
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</table>

**Strategic Goals**

| Strategic Goals | High | Strategic Initiative – Flood Protection Maintenance and Improvement: Develop and implement programs, projects and regulations to maintain and improve flood protection, and operate District flood control and conservation structures to minimize flood damage while preserving the water resource. |
|-----------------|------| Tampa Bay Region Priority: Flood Protection: Improve flood protection in Lake Tarpon, the Pithlachascotee, Anclote and Hillsborough Rivers and Pinellas County coastal watersheds |

**Overall Ranking and Recommendation**
Fund as High Priority. This project is to complete a feasibility study to evaluate solutions to reduce flooding, improve water quality, and enhance natural systems in the Tammy Lane and Timber Lake Estates areas of the New River watershed.

**Funding**

<table>
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<td>$75,000</td>
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</table>
Project No. Q190  
City of Tampa  

**SW IMP – Flood Protection – Lower Peninsula Stormwater Improvements - Southeast**

**City of Tampa Region**

Risk Level: Type 3  
Multi-Year Contract: No

### Description

**Description:**  
Third party review of the City's 30% design package of regional stormwater improvements to serve an area of approximately 5,508 acres on the Lower Peninsula of the City of Tampa. The project consists of two stormwater conveyance lines south to the MacDill 48 ELAPP property, which will serve as flood storage, then a single conveyance line east to an outfall in Tampa Bay. District funding is for the third party review as this project has a conceptual construction estimate greater than $5 million dollars. The City is expected to complete the 30% design with their design-build team prior to October 1, 2020. The FY2021 funding request is to complete the third party review only which will provide the necessary information to support funding in future years to complete design, permitting, and construction.

**Measurable Benefit:**  
The contractual Measurable Benefit will be providing 30% design package of the proposed project to construct drainage conveyance system BMP’s to reduce flooding in approximately 5,508 acres of a highly urbanized basin.

**Costs:**  
Total project cost: $70,000 (third party review)
- City of Tampa: $35,000
- District: $35,000; The conceptual estimate to complete design, permitting and construction is $25,000,000. It is anticipated that the City of Tampa will request funding to complete design, permitting, and construction in future years.

### Evaluation

**Application Quality:** High  
Application included all the required information identified in the CFI Guidelines.

**Project Benefit:** High  
The Resource Benefit of this project, if constructed, will reduce the existing flooding problem during the 5-year, 8-hour storm event. Structure and street flooding occurs in the project area and the project impacts the regional or intermediate drainage system. Ancillary water quality benefits were demonstrated along with the flood protection benefits.

**Cost Effectiveness:** Medium  
Benefit/Cost ratio is less than 1, but greater than or equal to 0.7.

**Past Performance:** High  
Based on an assessment of the schedule and budget for 8 ongoing projects.

**Complementary Efforts:** High  
Cooperator’s Community Rating System class is 5 and is in the 5 or less range.

**Project Readiness:** High  
Project is ready to begin on or before December 1, 2020.

### Strategic Goals

**Strategic Goals:** High  
**Strategic Initiative – Flood Protection Maintenance and Improvement:** Develop and implement programs, projects and regulations to maintain and improve flood protection, and operate District flood control and conservation structures to minimize flood damage while preserving the water resource.

**Tampa Bay Region Priority:** Flood Protection: Improve flood protection in Lake Tarpon, the Pithlachascotee, Anclote and Hillsborough Rivers and Pinellas County coastal watersheds

### Overall Ranking and Recommendation

**Fund as High Priority.**  
The City is requesting funds to complete the third party review only of a 30% design that they will have completed without assistance the previous year. The results from the third party review will provide the District with better information to confirm the resource benefits and cost effectiveness of constructing this project. If constructed, the project will provide flood protection for structures and streets during the 5-year, 8-hour event.

### Funding

<table>
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<tr>
<th>Funding Source</th>
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*Conceptual cost estimate, subject to Governing Board Approval
**Project No. Q210**  
**SW IMP – Flood Protection – Griffin Park Flood Abatement Project**  
**Pasco County**  
**FY2021**

### Risk Level:
Type 3

### Multi-Year Contract:
Yes, Year 1 of 2

### Description
Design, permitting, and construction of a pond and conveyance system to divert water from the Griffin Park neighborhood south to Bear Creek. The project was selected based on repetitive flooding in recent years and the floodplain information from the Pithlachascotee / Bear Creek WMP. FY2021 funds will be used to begin design.

### Measurable Benefit:
The contractual Measurable Benefit will be the construction of a pond and stormwater conveyance system in the area of Griffin Park. Construction will be in accordance with permitted plans.

### Costs:
Total project costs: $1,800,000 (design, permitting, and construction)
- Pasco County: $900,000
- District: $900,000 with $195,000 requested in FY2021 and $705,000 anticipated to be requested in future years.

### Evaluation

<table>
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<th>Application Quality</th>
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<tbody>
<tr>
<td>Project Benefit</td>
<td>High</td>
<td>The Resource Benefit of this project will reduce the existing flooding problem during the 100 year, 24-hour storm event. Structure and street flooding currently occurs in the project area and the project impacts the regional or intermediate drainage system. Ancillary water quality benefits were demonstrated along with the flood protection benefits.</td>
</tr>
<tr>
<td>Cost Effectiveness</td>
<td>High</td>
<td>Benefit/Cost ratio is greater than or equal to 1. Benefits include avoided damages to structures and roads.</td>
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<tr>
<td>Past Performance</td>
<td>Medium</td>
<td>Based upon an assessment of the schedule and budget for the 18 ongoing projects.</td>
</tr>
<tr>
<td>Complementary Efforts</td>
<td>Medium</td>
<td>Cooperator’s Community Rating System class is 6 and is in the 6 to 9 range.</td>
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<tr>
<td>Project Readiness</td>
<td>Medium</td>
<td>Project is ready to begin on or before March 1, 2021.</td>
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</table>

### Strategic Goals

| Strategic Goals | High | Strategic Initiative - Water Quality Maintenance and Improvement: Develop and implement programs, projects and regulations to maintain and improve water quality. |
|                |      | Strategic Initiative - Floodplain Management: Collect and analyze data to determine local and regional floodplain information, flood protection status and trends to support floodplain management decision and initiatives. |
|                |      | Tampa Bay Region Priority: Flood Protection: Improve flood protection in Lake Tarpon, the Pithlachascotee, Anclote and Hillsborough Rivers and Pinellas County coastal watersheds |

### Overall Ranking and Recommendation
This project consists of the construction of conveyance systems to divert stormwater from streets and homes in the Griffin Park neighborhood into a new pond and then to the Bear Creek system. It will provide flood protection for the 100 year, 24-hour event in an area that experiences structure and street flooding, and is cost effective.

### Funding

<table>
<thead>
<tr>
<th>Funding Source</th>
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</table>
**Project No. Q213**  
**Hillsborough County SCADA System**  
**Hillsborough County**  
**Type 3**  
**Yes, Year 1 of 2**

### Description

**Implementation of real-time water level monitoring systems throughout Hillsborough County, based on the previously funded feasibility study Q001. The current density of real-time gauges throughout the County does not provide suitable flood information that the County requires. The information gained from this connected monitoring system will be used to help make critical decisions in preparation for storm events. FY2021 funding will be used to initiate construction of real-time monitoring systems in Hillsborough County.**

**Measurable Benefit:** The contractual Measurable Benefit will be the installation of approximately 250 real-time monitoring systems at existing and newly constructed water level gauge stations.

**Costs:**

- Total project cost: $1,800,000 (Implementation of SCADA monitoring system)
- Hillsborough County: $900,000
- District: $900,000 with $200,000 requested in FY2021 and $700,000 anticipated to be requested in future years.

### Evaluation

<table>
<thead>
<tr>
<th>Evaluation Category</th>
<th>Rating</th>
<th>Notes</th>
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<tbody>
<tr>
<td>Application Quality</td>
<td>High</td>
<td>Application included all the required information identified in the CFI Guidelines.</td>
</tr>
<tr>
<td>Project Benefit</td>
<td>High</td>
<td>The benefit of this project is related to the implementation of real-time water level monitoring stations for lakes and streams within Hillsborough County. The monitoring system will enhance emergency operations in preparation for storm events.</td>
</tr>
<tr>
<td>Cost Effectiveness</td>
<td>High</td>
<td>Project cost is comparable to other prior projects with similar scopes.</td>
</tr>
<tr>
<td>Past Performance</td>
<td>High</td>
<td>Based upon an assessment of the schedule and budget for the 23 ongoing projects.</td>
</tr>
<tr>
<td>Complementary Efforts</td>
<td>High</td>
<td>Cooperator's Community Rating System class is 5 and is in the 5 or better range.</td>
</tr>
<tr>
<td>Project Readiness</td>
<td>High</td>
<td>Project is ready to begin on or before December 1, 2020.</td>
</tr>
</tbody>
</table>

### Strategic Goals

- **Strategic Initiative - Emergency Flood Response:** Operate District flood control and water conservation structures, providing effective and efficient assistance to state and local governments and the public to minimize flood damage during and after major storm events.
- **Strategic Initiative – Flood Protection Maintenance and Improvement:** Develop and implement programs, projects and regulations to maintain and improve flood protection, and operate District flood control and conservation structures to minimize flood damage while preserving the water resource.
- **Tampa Bay Region Priority:** Flood Protection: Improve flood protection in Lake Tarpon, the Pithlachascotee, Anclote and Hillsborough Rivers and Pinellas County coastal watersheds

### Overall Ranking and Recommendation

**Fund as High Priority.** The construction of additional real-time monitoring of water level gauges throughout Hillsborough County will allow for the support of a flood information system, forecasts for public information and emergency management. Real-time water levels will allow County staff to proactively manage stormwater. Historical data collection and storage with an improved gauge density will also be used to improve calibration efforts for existing watershed models.

### Funding

<table>
<thead>
<tr>
<th>Funding Source</th>
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<td>$1,800,000</td>
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</table>
Risk Level: Type 1

Multi-Year Contract: No

Description: Financial incentives and services to customers for up to ten conservation activities, including: single family high-efficiency toilets; multi-family high-efficiency toilets; commercial industrial institutional (CII) high-efficiency valve type toilets; CII tank type toilets; 0.5 gallon per flush urinals; pre-rinse spray valves; commercial conveyor type energy star dishwashers; cooling tower optimization equipment; soil moisture sensor and evapotranspiration (ET) irrigation controllers; and landscape efficiency incentives. Also included is program promotion and administrative costs to ensure the success of the program. Tampa Bay Water (TBW) member governments are collaborating with TBW to implement and oversee the project.

Measurable Benefit: The contractual Measurable Benefit will be the implementation of the program and the completion of a final report.

Costs:
- Total project costs: $2,864,476
  - Tampa Bay Water: $1,432,238
  - District: $1,432,238

Evaluation:
- Application Quality: High
- Project Benefit: High
- Cost Effectiveness: High
- Past Performance: High
- Complementary Efforts: High
- Project Readiness: High

Strategic Goals:
- Strategic Initiative - Conservation: Enhance efficiencies in all water-use sectors to ensure beneficial use.

Overall Ranking and Recommendation:
- Project will conserve potable water supply in the SWUCA and NTBWUCA and is cost effective.
- Fund as High Priority.

Funding:

<table>
<thead>
<tr>
<th>Funding Source</th>
<th>Prior FY2021</th>
<th>Future FY2021</th>
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<td>Total</td>
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<td>2,864,476</td>
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</table>
The Tampa Bay Environmental Restoration Fund (TBERF) was established to fund restoration, research and education initiatives in Tampa Bay. The Tampa Bay Estuary Program (TBEP) manages the fund and secures local funding to leverage with funds obtained nationally by the Restore America’s Estuaries (RAE) through environmental fines and philanthropic gifts.

The contractual Measurable Benefit will be that the project will fund numerous water quality improvement and habitat restoration projects throughout the Tampa Bay watershed.

Total Project Cost: $700,000
TBEP: $350,000
District: $350,000 (District share includes a 10% administrative fee for each grant managed by the TBEP)

Application Quality: High
Application included all the required information identified in the CFI guidelines.

Project Benefit: High
The Resource Benefit of the project is water quality improvement and natural systems restoration in Tampa Bay, a SWIM priority water body.

Cost Effectiveness: High
District funds will be leveraged with other local, federal, private, and penalty funds.

Past Performance: High
Based upon an assessment of the schedule and budget for the 8 ongoing project.

Complementary Efforts: High
Applicant funds projects that are complementary to preserve natural systems and improve water quality.

Project Readiness: High
Project is ready to begin on or before December 1, 2020.

Strategic Goals:
High

Strategic Initiative - Water Quality Maintenance and Improvement: Develop and implement programs, projects and regulations to maintain and improve water quality.

Strategic Initiative - Conservation and Restoration: Restoration and maintenance of natural ecosystem for the benefit of water and water-related resources.

Tampa Bay Region Priority: Improve Lake Thonotosassa, Tampa Bay, Lake Tarpon and Lake Seminole.

Due to the leveraging of local, federal, private, and penalty funds, this project is a very cost effective means to implement water quality and habitat restoration projects for Tampa Bay, a SWIM priority water body. The District has provided funding for the TBERF since FY2013. For FY2013 - FY2019 the TBERF funded 65 projects at a total grant amount of $5.6 million. Nine District projects have been funded at a grant amount of $1.45 million.

Funding

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<td>FY2021</td>
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<tr>
<td>-----------------</td>
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<tr>
<td>Pinellas County</td>
<td>Type 3</td>
<td>Multi-Year Contract: Yes, Year 1 of 2</td>
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</table>

### Description

**Description:** Design, permitting, and construction of a natural system restoration project which includes hydrologic restoration through elimination of stagnant ditches, dredging of existing ditches to improve circulation, and restoration of diurnal sheet flow by removing spoil mounds in the Weedon Island Preserve. This project is within the Tampa Bay watershed, a SWIM priority water body.

**Measurable Benefit:** The contractual Measurable Benefit of this project is the hydrologic restoration of 42 acres of mangrove forest and estuarine wetland habitat within the Weedon Island Preserve.

**Costs:**
- Total Project Cost: $937,800 (Design, permitting, and construction)
  - Pinellas County: $468,900
  - District: $468,900 with $56,268 requested in FY21 and $412,632 anticipated to be requested in future years.

### Evaluation

**Application Quality:** High
- Application included all the required information identified in the CFI Guidelines.

**Project Benefit:** High
- The Resource Benefit of the project is restoration of 42 acres of mangrove forest and estuarine wetland habitat within the Tampa Bay watershed, a SWIM priority water body.

**Cost Effectiveness:** High
- The estimated cost/acre restored is less than $53,326/acre restored for combined elements.

**Past Performance:** High
- Based upon an assessment of the schedule and budget for the 12 ongoing projects.

**Complementary Efforts:** High
- Applicant has an exotic removal/treatment program, a Land Management Plan for the property, maintains "nature parks" or "open space" within its park system, and has other complementary efforts that preserve or restore natural systems.

**Project Readiness:** Medium
- Project is ready to begin on or before March 1, 2021.

### Strategic Goals

**Strategic Goals:** High

**Strategic Initiative - Conservation and Restoration:** Restoration and maintenance of natural ecosystem for the benefit of water and water-related resources.

**Tampa Bay Region Priority:** Improve Lake Thonotosassa, Tampa Bay, Lake Tarpon and Lake Seminole.

### Overall Ranking and Recommendation

Fund as High Priority. This project is cost effective and will restore 42 acres of natural systems within the Tampa Bay watershed, a SWIM priority water body.

### Funding

<table>
<thead>
<tr>
<th>Funding Source</th>
<th>Prior</th>
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Project No. W220

Redington Beach

**Risk Level:** Type 3

**Project Description:** Design, permitting, and construction of stormwater retrofits in the City of Redington Beach to improve water quality discharging to Boca Ciega Bay within the Tampa Bay watershed, a SWIM priority water body.

**Measurable Benefit:** The contractual Measurable Benefit will be the design, permitting, and construction of LID BMPs to treat approximately 5.15 acres of highly urbanized stormwater runoff. Construction will be done in accordance with the permitted plans. Project also includes ancillary flood protection benefits. There will be no monitoring or performance testing requirements.

**Costs:**
- **Total project cost:** $150,000 (Design, permitting, construction)
  - **Town of Redington Beach:** $75,000
  - **District:** $75,000

**Evaluation**

**Application Quality:** Medium
- Application included most of the required information identified in the CFI Guidelines. District PM/CM had to work with cooperator to obtain remaining required information.

**Project Benefit:** Medium
- The Resource Benefit of the project is the reduction of pollutant loads to Tampa Bay, a SWIM priority water body, by an estimated 67 lbs/yr TN and 11 lbs/yr TP. This project will also have ancillary flood protection benefits.

**Cost Effectiveness:** High
- The estimated cost/lb of TN removed is below the historical average of $176/lb. The estimated cost/lb of TP removed is below the historical average of $1498/lb.

**Past Performance:** High
- Based on the cooperator having no ongoing projects with the District they are ranked high.

**Complementary Efforts:** High
- Applicant has an active stormwater utility that collects fees.

**Project Readiness:** Medium
- Project is ready to begin on or before March 1, 2021.

**Strategic Goals**

**Strategic Goals:** High
- **Strategic Initiative - Water Quality Maintenance and Improvement:** Develop and implement programs, projects and regulations to maintain and improve water quality.
- **Tampa Bay Region Priority:** Improve Lake Thonotosassa, Tampa Bay, Lake Tarpon and Lake Seminole.

**Overall Ranking and Recommendation**

Fund as High Priority. This project is cost effective and improves water quality discharging to Tampa Bay, a SWIM priority water body. This project will also have ancillary flood protection benefits.

**Funding**

<table>
<thead>
<tr>
<th>Funding Source</th>
<th>Prior</th>
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<th>Future</th>
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<tr>
<td>Hillsborough County</td>
<td>FY2021</td>
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<td></td>
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</tbody>
</table>

**Risk Level:** Type 3  
**Multi-Year Contract:** No

### Description

**Description:** Completion of re-delineation of existing FEMA designated floodways within Hillsborough County. The project will utilize recently completed Watershed Management Plans and the latest topographic information collected through the cooperatively funded project Hillsborough County LiDAR (N767). The new floodway delineation will be provided to FEMA for future map revisions. It will also serve as the best available information for District Regulation and County Land Development to make sound regulatory decisions.

**Measurable Benefit:** The contractual Measurable Benefit will be completion of re-delineation of floodways within Hillsborough County.

**Costs:**
- Total project cost: $1,000,000
- Hillsborough County: $500,000
- District: $500,000 requested in FY2021

### Evaluation

<table>
<thead>
<tr>
<th>Application Quality: High</th>
<th>Application included all the required information identified in the CFI Guidelines.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Benefit: Medium</td>
<td>The project will re-delineate floodways within Hillsborough County. Currently, the floodways are over 10 years old and include regional or intermediate stormwater systems.</td>
</tr>
<tr>
<td>Cost Effectiveness: Medium</td>
<td>Project cost appears to be reasonable compared to similar past projects.</td>
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<td>Past Performance: High</td>
<td>Based upon an assessment of the schedule and budget for the 23 ongoing projects.</td>
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<tr>
<td>Complementary Efforts: High</td>
<td>Cooperator's Community Rating System class is 5 and is in the 5 or better range.</td>
</tr>
<tr>
<td>Project Readiness: High</td>
<td>Project is ready to begin on or before December 1, 2020.</td>
</tr>
</tbody>
</table>

### Strategic Goals

| Strategic Goals: High | Strategic Initiative - Floodplain Management: Collect and analyze data to determine local and regional floodplain information, flood protection status and trends to support floodplain management decision and initiatives. |
|----------------------| Tampa Bay Region Priority: Flood Protection: Improve flood protection in Lake Tarpon, the Pithlachascotee, Anclote and Hillsborough Rivers and Pinellas County coastal watersheds |

### Overall Ranking and Recommendation

Fund as Medium Priority. Project will provide updated floodway delineation within Hillsborough County. The information will be provided to FEMA for future map revisions and used for District Regulation and County Land Development to make sound regulatory decisions.

### Funding

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**Project No. Q171**  
Study – McKay Creek Model Update, Alternatives Analysis and Feasibility Study  
Pinellas County  
FY2021

<table>
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<th>Risk Level:</th>
<th>Type 3</th>
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<tbody>
<tr>
<td>Multi-Year Contract:</td>
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**Description**

**Description:** Develop a Preliminary Engineering Report (PER) that evaluates proposed BMPs in the McKay Creek watershed in Pinellas County. These projects were identified as recommendations in the prior McKay Creek BMP Alternatives Analysis (N373) and other studies. The project will provide more detail and refine water quality and flood protection benefits, project costs, property rights/acquisition needs, and permitting/mitigation requirements for proposed BMPs.

**Measurable Benefit:** The contractual Measurable Benefit will be the completion of the study and a PER that evaluates alternatives to reduce flooding and improve water quality within the McKay Creek watershed.

**Costs:**
- Total project cost: $520,000
  - Pinellas County: $260,000
  - District: $260,000 with $130,000 requested in FY2021 and $130,000 anticipated to be requested in future years.

**Evaluation**

- **Application Quality:** High  
  Application included all the required information identified in the CFI Guidelines.

- **Project Benefit:** Medium  
  The project benefit is a study that will evaluate stormwater improvement alternatives for flood protection and water quality improvement. Currently, flood analysis models are available and are from 5 to 10 years old, and the watershed includes regional or intermediate stormwater systems.

- **Cost Effectiveness:** Medium  
  Project cost per square mile is greater than historic costs for model updates with an alternative analyses. Costs are comparable to other feasibility studies. Project combines elements of each of these project types.

- **Past Performance:** High  
  Based upon an assessment of the schedule and budget for the 12 ongoing projects.

- **Complementary Efforts:** High  
  Cooperate’s Community Rating system class is 5 and is in the 5 or less range.

- **Project Readiness:** High  
  Project is ready to begin on or before December 1, 2020.

**Strategic Goals**

- **Strategic Goals:** High
- **Strategic Initiative - Water Quality Assessment and Planning:** Collect and analyze data to determine local and regional water quality status and trends to support resource management decisions and restoration initiatives.

- **Strategic Initiative - Floodplain Management:** Collect and analyze data to determine local and regional floodplain information, flood protection status and trends to support floodplain management decision and initiatives.

- **Tampa Bay Region Priority:** Improve Lake Thonotosassa, Tampa Bay, Lake Tarpon and Lake Seminole.

- **Tampa Bay Region Priority:** Flood Protection: Improve flood protection in Lake Tarpon, the Pithlachascotee, Anclote and Hillsborough Rivers and Pinellas County coastal watersheds.

**Overall Ranking and Recommendation**

The project will complete a study to evaluate and further define solutions to reduce flooding and improve water quality in the McKay Creek Watershed. It uses an existing watershed model and recommendations from the McKay Creek WMP (N373) Alternatives Analysis as well as other studies. The project combines elements of an alternatives analysis and a feasibility study; costs are comparable to typical feasibility studies.

**Funding**

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**Project No. Q175**

**Study – Bluff Restoration and Erosion Abatement**

**Town of Belleair**

**Risk Level:** Type 3  
**Multi-Year Contract:** No  

**Description**

This feasibility study will investigate the erosion of the bluff shoreline along Bayview Drive due to wave activity and groundwater discharge and develop options to address these issues maximizing natural system restoration opportunities and improving water quality through nutrient reduction BMPs. This study will result in a conceptual project plan, including quantified benefits and conceptual costs.

**Measurable Benefit:** The contractual Measurable Benefit is the completion of the study and conceptual project plan.

**Costs:**

- Total Project Cost: $270,000 (Study)
- Town of Belleair: $135,000
- District: $135,000

**Evaluation**

- **Application Quality:** Medium  
  Application included most of the required information identified in the CFI guidelines. District PM/CM had to work with the cooperator to obtain remaining required information.

- **Project Benefit:** Medium  
  The Resource Benefit of the project is the conceptual project plan that will address and alleviate erosion of the bluff shoreline due to wave activity and groundwater discharge. The Study will identify options that maximize natural system restoration opportunities and improve water quality through nutrient reduction BMPs.

- **Cost Effectiveness:** Medium  
  The cost effectiveness is slightly higher than comparable past projects.

- **Past Performance:** Low  
  Based upon an assessment of the schedule and budget for the 1 ongoing project.

- **Complementary Efforts:** High  
  Applicant has an active stormwater utility that collects fees.

- **Project Readiness:** High  
  The project is ready to begin on or before December 1, 2020.

**Strategic Goals**

- **Strategic Goals:** Medium  
  Strategic Initiative - Conservation and Restoration: Restoration and maintenance of natural ecosystem for the benefit of water and water-related resources.

**Overall Ranking and Recommendation**

Fund as Medium Priority. This study will develop a conceptual plan for erosion abatement for the Bayview Drive bluff shoreline. The study will develop options to address these issues maximizing natural system restoration opportunities and improving water quality through nutrient reduction BMPs and will include quantified benefits and conceptual costs.

**Funding**

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Project No. Q196  Study – Joe’s Creek Model Update, Alternatives Analysis and Feasibility Study

Risk Level: Type 3  Multi-Year Contract: Yes, 1 of 2

Description

Development of a Preliminary Engineering Report (PER) that evaluates proposed BMPs in the Joe’s Creek watershed in Pinellas County. The projects were identified in the prior Joe’s Creek Watershed Improvement Plan BMP Alternatives Analysis (N516). Study will refine the model, provide more detail for water quality, natural systems and flood protection benefits, project costs, property rights/acquisition needs, and permitting/mitigation requirements for proposed BMPs.

Measurable Benefit:
The contractual Measurable Benefit will be the completion of the study and a Preliminary Engineering Report to evaluate alternatives to reduce flooding, improve water quality and enhance natural systems within the Joe’s Creek watershed.

Costs:

- Total project cost: $720,000
  - Pinellas County: $360,000
  - District: $360,000 with $180,000 requested in FY2021 and $180,000 anticipated to be requested in future years.

Evaluation

Application Quality: High
- Application included all the required information identified in the CFI Guidelines.

Project Benefit: Medium
- The project benefit is a study that will evaluate stormwater improvement alternatives for flood protection and water quality improvement. Currently, flood analysis models are available, are less than 5 years old, and the watershed includes regional or intermediate stormwater systems.

Cost Effectiveness: Medium
- Project cost per square mile is greater than historic costs for model updates with an alternative analyses. Costs are comparable to other feasibility studies. Project combines elements of both project types.

Past Performance: High
- Based upon an assessment of the schedule and budget for the 12 ongoing projects.

Complementary Efforts: High
- Cooperator’s Community Rating system class is 5 and is in the 5 or less range.

Project Readiness: High
- Project is ready to begin on or before December 1, 2020.

Strategic Goals

- Strategic Initiative - Water Quality Assessment and Planning: Collect and analyze data to determine local and regional water quality status and trends to support resource management decisions and restoration initiatives.
- Strategic Initiative - Floodplain Management: Collect and analyze data to determine local and regional floodplain information, flood protection status and trends to support floodplain management decision and initiatives.
- Tampa Bay Region Priority: Improve Lake Thonotosassa, Tampa Bay, Lake Tarpon and Lake Seminole.
- Tampa Bay Region Priority: Flood Protection: Improve flood protection in Lake Tarpon, the Pithlachascotee, Anclote and Hillsborough Rivers and Pinellas County coastal watersheds.

Overall Ranking and Recommendation

The project will complete a study to evaluate and further define solutions to reduce flooding, improve water quality and enhance natural systems in the Joe’s Creek Watershed. It uses an existing watershed model and recommendations from the Joe’s Creek BMP Alternatives Analysis. The project combines elements of a model update, alternatives analysis and a feasibility study.

Funding

<table>
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<tr>
<th>Funding Source</th>
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**Project No. Q199**  
**WMP – Starkey Road WMP Update**  
**Pinellas County**  
**FY2021**

<table>
<thead>
<tr>
<th><strong>Risk Level:</strong></th>
<th>Type 3</th>
<th><strong>Multi-Year Contract:</strong></th>
<th>Yes, Year 1 of 3</th>
</tr>
</thead>
</table>

**Description**
Complete a comprehensive update to the Starkey Road Watershed Management Plan (WMP) in Pinellas County, through and including Watershed Evaluation, Floodplain Analysis, Level of Service (LOS) Determination, Surface Water Resource Assessment (SWRA), and Best Management Practice (BMP) Alternatives Analysis. The study will result in recommendations for drainage, water quality and natural systems improvement projects. FY2021 funding will be used to begin the Watershed Evaluation phase.

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

**Costs:**
- Total project cost: $500,000
- Pinellas County: $250,000
- District: $250,000 with $75,000 requested in FY2021 and $175,000 anticipated to be requested in future years.

**Evaluation**
- **Application Quality:** High  
  Application included all the required information identified in the CFI Guidelines.
- **Project Benefit:** Medium  
  The WMP will re-evaluate flooding problems that exist in the watershed. Currently, flood analysis models are available and are from 5 to 10 years old, and the watershed includes regional or intermediate stormwater systems.
- **Cost Effectiveness:** Low  
  Project cost per square mile is in the high-range of historic costs (greater than $40,000/sq. mi.) for WMP updates completed in urban watersheds. This is a heavily urbanized watershed and will require a high level of effort during the watershed evaluation and floodplain analysis phases of the project. This study will also include water quality and natural systems components.
- **Past Performance:** High  
  Based upon an assessment of the schedule and budget for the 12 ongoing projects.
- **Complementary Efforts:** High  
  Cooperator's Community Rating System class is 5 and is in the 5 or less range.
- **Project Readiness:** Medium  
  Project is ready to begin on or before March 1, 2021.

**Strategic Goals**
- **Strategic Goal:** High  
  *Strategic Initiative - Water Quality Assessment and Planning:* Collect and analyze data to determine local and regional water quality status and trends to support resource management decisions and restoration initiatives.
- **Strategic Initiative - Floodplain Management:** Collect and analyze data to determine local and regional floodplain information, flood protection status and trends to support floodplain management decision and initiatives.
- **Tampa Bay Region Priority:** Improve Lake Thonotosassa, Tampa Bay, Lake Tarpon and Lake Seminole.
- **Tampa Bay Region Priority:** Flood Protection: Improve flood protection in Lake Tarpon, the Pithlachascotee, Anclote and Hillsborough Rivers and Pinellas County coastal watersheds.

**Overall Ranking and Recommendation**
Fund as Medium Priority. The project will complete a study to evaluate and further define solutions to reduce flooding and improve water quality in the Starkey Road Watershed. It combines elements of a model update and alternatives analysis. In addition to Flood Protection this update will also include Water Quality and Natural Systems components.

**Funding**

<table>
<thead>
<tr>
<th>Funding Source</th>
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</table>
Project No. W299 | SW IMP – Water Quality – Ibis Stormwater Pond Retrofit
---|---
**Pinellas County** | **Multi-Year Contract: No**

**Risk Level:** Type 2

**Description**

**Description:** Construction of stormwater BMP’s to improve water quality discharging into the Tampa Bay watershed, a SWIM priority water body.

**Measurable Benefit:** The contractual Measureable Benefit will be the construction of BMPs to treat stormwater runoff from approximately 12.8 acres of residential urban watershed. Construction will be done in accordance with permitted plans. There will be no monitoring or performance testing requirements.

**Costs:**
- Total Project Cost: $290,000 (Construction)
  - Pinellas County: $145,000
  - District: $145,000

**Evaluation**

**Application Quality:** Medium
- Application included most of the required information identified in the CFI Guidelines. District PM/CM had to work with the cooperator to obtain remaining required information.

**Project Benefit:** Medium
- The Resource Benefit of the project is the reduction of pollutant loads to Tampa Bay, a SWIM priority water body, by an estimated 30.9 lbs/year of TN.

**Cost Effectiveness:** Medium
- The estimated cost/lb of TN removed is between the historical average of $176/lb TN and $475/lb TN.

**Past Performance:** High
- Based on an assessment of the schedule and budget for the 12 ongoing projects.

**Complementary Efforts:** High
- Applicant has an active stormwater utility that collects fees.

**Project Readiness:** High
- This project is scheduled to begin on or before December 1, 2020.

**Strategic Goals**

**Strategic Goals:** High
- **Strategic Initiative - Water Quality Maintenance and Improvement:** Develop and implement programs, projects and regulations to maintain and improve water quality.
- **Tampa Bay Region Priority:** Improve Lake Thonotosassa, Tampa Bay, Lake Tarpon and Lake Seminole.

**Overall Ranking and Recommendation**

Fund as Medium Priority. This project is cost effective, but it has a marginal nutrient reduction benefit. This project will reduce nutrients entering Tampa Bay, a SWIM priority water body.

**Funding**

<table>
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<tr>
<th>Funding Source</th>
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## Description

**Risk Level:** Type 3  
**Project No.:** N901  
**Pasco County:**  
**SW IMP – Flood Protection – Port Richey Alternative Outfall**  
**Multi-Year Contract:** Yes, Year 4 of 5  

**Description:** Land acquisition, design, permitting, and construction of an alternative outfall for the Port Richey Slough system. Currently, stormwater flows from the Magnolia Valley area through a slough system which eventually discharges north under Ridge Road and then west under 19 to the Gulf of Mexico. Flooding is experienced as the wetland slough area narrows into a channel. This project will provide an alternative outfall that connects the slough system to an existing outfall to the Gulf, just south of Ridge Road. Funding was approved in FY2018 for 30% design and third-party review. The District required a third-party review because this project has complex design and land acquisition elements. The FY2021 funding request is for design, permitting, and construction.

**Measurable Benefit:** The contractual Measurable Benefit will be for the design, permitting and construction of an alternative outfall for the Port Richey Slough. Construction will be done in accordance with the permitted plans.

**Costs:** Total project cost: $3,250,000 (land acquisition, design, third-party review, permitting, construction)  
Pasco County: $1,625,000 (Includes $100,000 of land acquisition costs as funding match)  
District: $1,625,000 with $625,000 budgeted in previous years, $750,000 requested in FY2021, and $250,000 anticipated to be requested in future years.

## Evaluation

**Application Quality:** Medium  
Application included most of the required information identified in the CFI guidelines. District PM/CM had to work with cooperator to obtain remaining required information.

**Project Benefit:** Medium  
The Resource Benefit of this project will reduce the existing flooding problem during the 100 year, 24-hour storm event. Street flooding currently occurs in the project area and the project impacts the regional or intermediate drainage system. Ancillary water quality benefits were demonstrated along with the flood protection benefits.

**Cost Effectiveness:** Low  
Benefit/cost ratio is less than 0.7. Benefits include avoided damages to roads.

**Past Performance:** Medium  
Based upon an assessment of the schedule and budget for the 18 ongoing projects.

**Complementary Efforts:** Medium  
Cooperator's Community Rating System class is 6 and is in the 6 to 9 range.

**Project Readiness:** High  
Project is ongoing and on schedule.

## Strategic Goals

## Overall Ranking and Recommendation

Low Priority, not recommended for funding. The County is working on 30% design and third party review which is scheduled for June of 2020. Contractually, the County will need Governing Board approval to proceed beyond this task. Staff is not recommending FY2021 funding for completion of design, permitting, and construction due to the recently received Cost Benefit Analysis which shows the former benefits of this project being realized in other projects.

## Funding

<table>
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<th>Funding Source</th>
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The Southwest Florida Water Management District (District) does not discriminate on the basis of disability. This nondiscrimination policy involves every aspect of the District’s functions, including access to and participation in the District’s programs, services and activities. Anyone requiring reasonable accommodation, or would like information as to the existence and location of accessible services, activities, and facilities, as provided for in the Americans with Disabilities Act, should contact Donna Kaspari, Sr. Performance Management Professional, at 2379 Broad St., Brooksville, FL 34604-6899; telephone (352) 796-7211 or 1-800-423-1476 (FL only), ext. 4706; or email ADACoordinator@WaterMatters.org. If you are hearing or speech impaired, please contact the agency using the Florida Relay Service, 1-800-955-8771 (TDD) or 1-800-955-8770 (Voice). If requested, appropriate auxiliary aids and services will be provided at any public meeting, forum, or event of the District. In the event of a complaint, please follow the grievance procedure located at WaterMatters.org/ADA.