Heartland Region

FY2021 Cooperative Funding Initiative

Final Project Evaluations and Rankings
<table>
<thead>
<tr>
<th>Project</th>
<th>Cooperator</th>
<th>Project Name</th>
<th>Rank</th>
<th>District Prior Funding</th>
<th>FY2021 Proposed District Funding</th>
<th>District Future Funding</th>
</tr>
</thead>
<tbody>
<tr>
<td>N898</td>
<td>Haines City</td>
<td>Reclaimed - Haines City Reclaimed Water Tank and Pump Stations</td>
<td>1A</td>
<td>2,985,000</td>
<td>1,635,000</td>
<td>0</td>
</tr>
<tr>
<td>Q067</td>
<td>Polk Co</td>
<td>Reclaimed - Polk County NERUSA Southeast Reuse Loop</td>
<td>1A</td>
<td>1,093,375</td>
<td>983,375</td>
<td>110,000</td>
</tr>
<tr>
<td>Q099</td>
<td>Highlands Co</td>
<td>WMP - Sebring WMP Update</td>
<td>1A</td>
<td>131,250</td>
<td>131,250</td>
<td>0</td>
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<tr>
<td>N926</td>
<td>Haines City</td>
<td>Restoration - Lake Eva &amp; Lake Henry Restoration</td>
<td>H</td>
<td>300,000</td>
<td>730,500</td>
<td>4,569,000</td>
</tr>
<tr>
<td>Q166</td>
<td>Bartow</td>
<td>Conservation - Bartow Golf Course Advanced Irrigation System</td>
<td>H</td>
<td>0</td>
<td>250,000</td>
<td>0</td>
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<tr>
<td>Q178</td>
<td>Lakeland</td>
<td>Study - Crystal Lake Water Quality Improvement</td>
<td>H</td>
<td>0</td>
<td>100,000</td>
<td>0</td>
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<tr>
<td>Q184</td>
<td>PRWC</td>
<td>Brackish - Polk Regional Water Cooperative Southeast Wellfield Implementation</td>
<td>H</td>
<td>0</td>
<td>6,750,000</td>
<td>83,496,500</td>
</tr>
<tr>
<td>Q187</td>
<td>PRWC</td>
<td>Conservation - Polk Regional Water Cooperative Demand Management Implementation</td>
<td>H</td>
<td>0</td>
<td>84,355</td>
<td>0</td>
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<tr>
<td>Q200</td>
<td>Winter Haven</td>
<td>Study - Winter Haven Direct Potable Reuse Feasibility</td>
<td>H</td>
<td>0</td>
<td>100,000</td>
<td>0</td>
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<tr>
<td>Q203</td>
<td>Polk Co</td>
<td>Study - Lake Annie Surface Water Restoration</td>
<td>H</td>
<td>0</td>
<td>134,000</td>
<td>0</td>
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<tr>
<td>Q209</td>
<td>Polk Co</td>
<td>Study - Polk Co. Direct Potable Reuse Feasibility and Pilot Demonstration</td>
<td>H</td>
<td>0</td>
<td>795,000</td>
<td>0</td>
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<tr>
<td>Q216</td>
<td>PRWC</td>
<td>Interconnects - Polk Regional Water Cooperative Regional Transmission Southeast Phase 1</td>
<td>H</td>
<td>0</td>
<td>4,950,000</td>
<td>48,094,150</td>
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<tr>
<td>W771</td>
<td>Polk Co</td>
<td>Study - Winter Haven - Lake Lulu Watershed Protection</td>
<td>H</td>
<td>0</td>
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<tr>
<td>Q176</td>
<td>Winter Haven</td>
<td>Study - Winter Haven/Upper Peace Creek Watershed Optimization Model</td>
<td>M</td>
<td>0</td>
<td>225,000</td>
<td>150,000</td>
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<td>Q177</td>
<td>Winter Haven</td>
<td>Reclaimed - Winter Haven Southern Basin Aquifer Recharge</td>
<td>M</td>
<td>0</td>
<td>250,000</td>
<td>1,750,000</td>
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<tr>
<td>Q181</td>
<td>FL State Parks</td>
<td>WMP - Highlands Hammock State Park/Little Charlie Bowlegs WMP</td>
<td>M</td>
<td>0</td>
<td>75,000</td>
<td>195,000</td>
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</tbody>
</table>

Recommended for Funding Total: $17,273,480 $138,364,650

Projects Ranked Low and/or Not Recommended

<table>
<thead>
<tr>
<th>Project</th>
<th>Cooperator</th>
<th>Project Name</th>
<th>Rank</th>
<th>District Prior Funding</th>
<th>FY2021 Proposed District Funding</th>
<th>District Future Funding</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q164</td>
<td>Polk Co</td>
<td>SW IMP - Water Quality - Crooked Lake - Sunset Trail Stormwater Retrofit</td>
<td>L</td>
<td>0</td>
<td>455,000</td>
<td>0</td>
</tr>
</tbody>
</table>

Not Recommended for Funding Total: $455,000 $0

Heartland Region Total: $17,728,480 $138,364,650
## Description

Design, permitting and construction of a transfer pump station, a storage tank, a high service pump station, a booster station, associated yard piping, electrical modifications, instrumentation, controls, and other necessary appurtenances to enable the city to store and supply reclaimed water to existing and future customers in the "Ridge Lakes" area of the Central Florida Water Initiative (CFWI).

## Measurable Benefit

The contractual Measurable Benefit will be the design, permitting, and construction of equipment that will enable the city to store and supply reclaimed water to existing and future customers in the "Ridge Lakes" area of the Central Florida Water Initiative (CFWI). Construction will be done in accordance with the permitted plans.

## Costs

Total project cost: $6,800,000 (Design, Third-Party Review, Permitting and Construction);
- Haines City (25% REDI): $2,180,000;
- District: $4,620,000 with $2,985,000 budgeted in previous years, and the final year funding of 1,635,000 requested in FY2021.

## Evaluation

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

**Project Benefit:** Medium  
The benefit will be the improvement of reclaimed water availability to enable future reclaimed water system expansions.

**Cost Effectiveness:** Medium  
The project costs are 1% over the typical range of costs for infrastructure in similar District funded reclaimed water storage and pumping projects.

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

**Complementary Efforts:** High  
The Cooperator has a program in place that includes metering and an incentivized based reuse rate structure for high volume users, and has proactive reclaimed expansion policies which maximize utilization and environmental benefits.

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

## Strategic Goals

**Strategic Goals:** High  
- **Strategic Initiative - Reclaimed Water:** Maximize beneficial use of reclaimed water to reduce demand on traditional water supplies.
- **Heartland Region Priority:** Implement Southern Water Use Caution Area (SWUCA) Recovery Strategy.
- **Heartland Region Priority:** Improve Winter Haven Chain of Lakes and Ridge Lakes

## Overall Ranking and Recommendation

This ongoing project is recommended for funding as it will improve the availability of reclaimed water for future reclaimed water system expansions and is cost effective. The Governing Board approved the third-party review in January 2019, and also approved a project cost increase of $640,000 paid for by Haines City. Haines City qualifies for a 75% cost share as a REDI community as defined by Florida Statute. Under the Governing Board's Cooperative Funding Initiative Policy, the Board can reduce the requirements for matching funds for REDI communities.

## 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>$2,985,000</td>
<td>$1,635,000</td>
<td>$4,620,000</td>
</tr>
<tr>
<td>Haines City</td>
<td>$1,315,000</td>
<td>$865,000</td>
<td>$2,180,000</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>$4,300,000</strong></td>
<td><strong>$2,500,000</strong></td>
<td><strong>$6,800,000</strong></td>
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</tbody>
</table>
Project No. Q067 | Reclaimed – Polk County NERUSA Southeast Reuse Loop Project
---|---
Polk County Utilities | FY2021

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

### Description

**Description:** Design, permitting and construction of approximately 24,800 feet of reclaimed water transmission mains and other necessary appurtenances to construct a loop to supply approximately 1,365 homes in the Southeast reuse portion of the North East Utility Service Area (NERUSA) and to enable supply to future planned subdivisions.

**Measurable Benefit:** The contractual Measurable Benefit will be the supply and utilization of 0.522 mgd of reclaimed water for residential irrigation use for an anticipated 0.522 mgd of water savings in the Central Florida Water Initiative area (CFWI).

**Costs:** Total project cost: $4,373,500 (Design, Permitting, Construction);  
Polk County: $2,186,750;  
District: $2,186,750, with $1,093,375 budgeted in previous years, $983,375 requested in FY2021, and the remaining $110,000 is 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 benefit is the supply of 0.522 mgd of reclaimed water to residential irrigation customers for an anticipated 0.522 mgd of water savings within the CFWI.

**Cost Effectiveness:** High  
$8.38 per gallon per day capital cost which is below the $10 to $15 per gallon average for alternative supplies. The estimated cost effectiveness is $2.02 per thousand gallons of water resource benefit which is within the cost range for reuse projects which typically range from a low of $0.15/1,000 gallons for golf course projects up to $10.00/1,000 gallons for residential projects.

**Past Performance:** High  
Based upon an assessment of the schedule and budget for the 7 ongoing projects.

**Complementary Efforts:** High  
The Cooperator has a program in place that includes metering and an incentivized based reuse rate structure for high volume users, and has proactive reclaimed expansion policies which maximize utilization and environmental benefits.

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

### Strategic Goals

**Strategic Goals:** High  
**Strategic Initiative - Reclaimed Water:** Maximize beneficial use of reclaimed water to reduce demand on traditional water supplies.  
**Heartland Region Priority:** Implement Southern Water Use Caution Area (SWUCA) Recovery Strategy.  
**Heartland Region Priority:** Improve Winter Haven Chain of Lakes and Ridge Lakes

### Overall Ranking and Recommendation

This ongoing project is recommended for funding as it reduces reliance on traditional sources in the SWUCA and is cost effective.

### 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>$1,093,375</td>
<td>$983,375</td>
<td>$110,000</td>
</tr>
<tr>
<td>Polk County</td>
<td>$1,093,375</td>
<td>$983,375</td>
<td>$110,000</td>
</tr>
<tr>
<td>Total</td>
<td>$2,186,750</td>
<td>$1,966,750</td>
<td>$220,000</td>
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</table>
**Project No. Q099**

**WMP - Sebring WMP Update**

**Highlands County**

**FY2021**

**Risk Level:** Type 4  
**Multi-Year Contract:** Yes, Year 2 of 2

**Description**

**Description:** Complete a Watershed Management Plan (WMP) update for the Sebring watershed in Highlands County including Watershed Evaluation, floodplain analysis, Level of Service determination (LOS), and Best Management Practices (BMPs) alternatives analysis. This will identify solutions to the flooding concerns in the Sebring Country Estates, Sebring Hills, Lake Haven, Orange Blossom, Silver Fox, and Sebring Falls areas. FY2021 funding will be used to complete the WMP floodplain analysis through BMP alternatives analysis.

**Measurable Benefit:** The contractual Measurable Benefit will be the update to the Sebring WMP to develop better floodplain information and complete the LOS and BMP alternative analysis.

**Costs:** Total project cost: $350,000  
Highlands County (25% REDI): $87,500  

**Evaluation**

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

**Project Benefit:** High  
The WMP will evaluate flooding problems that exist in the watershed. Currently, flood analysis models are available and are over 10 years old. The watershed has experienced moderate changes since last study, and the watershed includes regional or intermediate stormwater systems. The Sebring 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 ($15,000 / sq mi or less) for WMP updates completed in mixed watersheds.

**Past Performance:** Medium  
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  
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.

**Heartland Region Priority:** Improve Winter Haven Chain of Lakes and Ridge Lakes

**Overall Ranking and Recommendation**

**Fund as 1A Priority:** This ongoing project updates flood risk in an area with existing flood analysis that is over 10 years old. The project will utilize and update existing watershed models to complete a floodplain analysis, LOS determination, and BMP alternative analysis. The Sebring watershed is one of the District's top 20 priority watersheds for WMP updates. Highlands County qualifies for a 75% cost share as a REDI community as defined by Florida Statute. Under District Policy 130-4, the Board can reduce the requirements for matching funds for REDI communities.

**Funding**

<table>
<thead>
<tr>
<th>Funding Source</th>
<th>Prior FY2021</th>
<th>Future</th>
<th>Total</th>
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<tbody>
<tr>
<td>Highlands County</td>
<td>$43,750</td>
<td>$0</td>
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<tr>
<td>District</td>
<td>$131,250</td>
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<td><strong>Total</strong></td>
<td><strong>$175,000</strong></td>
<td><strong>$0</strong></td>
<td><strong>$350,000</strong></td>
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</table>
### Project No. N926
**Restoration - Lake Eva & Lake Henry Restoration**

**Haines City**

<table>
<thead>
<tr>
<th>Risk Level:</th>
<th>Type 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multi-Year Contract:</td>
<td>Yes, Year 2 of 3</td>
</tr>
</tbody>
</table>

**Description**

Design, permitting, and construction of the Lake Eva and Lake Henry restoration based on preliminary design developed through N830 (Feasibility Study) to connect Lake Eva and Lake Henry through natural systems. Funding was approved in FY2018 for 30% design and third-party review. The FY2021 funding request is to complete final design and bidding documents and start the construction. The conceptual construction cost estimate is greater than $5 million; therefore, Governing Board approval is required to proceed beyond 30% design (currently ongoing) and third-party review.

**Measurable Benefit:**
The contractual Measurable Benefit will be the restoration and enhancement of approximately 145 acres of freshwater marshes, wetland swamp forest, and sloughs within the Morrison Ranch property. Construction will be done in accordance with the permitted plans.

**Costs:**
Total conceptual project cost: $7,466,000 (design, third-party review, permitting, and construction)

- Haines City: $1,866,500 (Eligible REDI Community)
- District: $5,599,500 with $300,000 budgeted in previous years, $730,500 requested in FY2021, and $4,569,000 anticipated to be requested in future years.

**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>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Project Benefit:</th>
<th>High</th>
</tr>
</thead>
<tbody>
<tr>
<td>The benefit of this project, if constructed, will restore regional water bodies, optimize water retention within the region, and improve water quality.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cost Effectiveness:</th>
<th>High</th>
</tr>
</thead>
<tbody>
<tr>
<td>The estimated cost/acre of natural systems restoration is below the historical average of $53,326/acre.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Past Performance:</th>
<th>Medium</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 cooperator has an active stormwater utility that collects assessments and instituted a Lakes Management Initiative.</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>Strategic Initiative - Water Quality Maintenance and Improvement: Develop and implement programs, projects and regulations to maintain and improve water quality.</td>
<td></td>
</tr>
</tbody>
</table>

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

| Heartland Region Priority: | Improve Winter Haven Chain of Lakes and Ridge Lakes |

**Overall Ranking and Recommendation**

30% design and third-party review is anticipated to be completed by September 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 construction related services. If constructed, this project will restore regional water bodies, optimize water retention within the region, and improve water quality. Haines City qualifies for a 75% cost share as a REDI community as defined by Florida Statute. Under District Policy 130-4, the Board can reduce the requirements for matching funds for REDI communities.

**Funding**

<table>
<thead>
<tr>
<th>Funding Source</th>
<th>Prior FY2021</th>
<th>Future</th>
<th>Total *</th>
</tr>
</thead>
<tbody>
<tr>
<td>Haines City</td>
<td>$100,000</td>
<td>$243,500</td>
<td>$1,523,000</td>
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<tr>
<td>District</td>
<td>$300,000</td>
<td>$730,500</td>
<td>$4,569,000</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>$400,000</strong></td>
<td><strong>$974,000</strong></td>
<td><strong>$6,092,000</strong></td>
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</tbody>
</table>

*Conceptual cost estimate, subject to Governing Board Approval*
**Project No. Q166**

Conservation – Bartow Golf Course Advanced Irrigation System

<table>
<thead>
<tr>
<th>Bartow</th>
</tr>
</thead>
</table>

### Risk Level:
Type 2

### Multi-Year Contract:
No

### Description:
Installation of an advanced irrigation system including high efficiency spray heads with remote communication and centralized weather-based control for the city-owned Bartow Golf Course. This higher level of precision irrigation will result in a reduction of irrigated acreage and better distribution uniformity of irrigation events.

### Measurable Benefit:
The contractual Measurable Benefit is the installation of a new advanced irrigation system and associated components to reduce groundwater withdrawals in the Southern Water Use Caution Area (SWUCA). In addition, the completion of a final report documenting pre and post water usage.

### Costs:
- Total project cost: $500,000
  - City of Bartow: $250,000
  - District: $250,000

### Evaluation:

<table>
<thead>
<tr>
<th>Application Quality:</th>
<th>Medium</th>
<th>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.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Benefit:</td>
<td>High</td>
<td>The benefit of this project is an estimated 50,700 gallons per day of water conserved in the SWUCA.</td>
</tr>
<tr>
<td>Cost Effectiveness:</td>
<td>High</td>
<td>Project cost effectiveness is below $3.00 per thousand gallons saved.</td>
</tr>
<tr>
<td>Past Performance:</td>
<td>High</td>
<td>Based on the cooperator having no ongoing projects with the District they are ranked high.</td>
</tr>
<tr>
<td>Complementary Efforts:</td>
<td>High</td>
<td>The City golf course is attempting to enhance water use efficiency with this project. Additionally, the City is considering adoption of a Florida Water Star based ordinance that would improve water use efficiency in new construction.</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 - Conservation**: Enhance efficiencies in all water-use sectors to ensure beneficial use.
- **Heartland Region Priority**: Implement Southern Water Use Caution Area (SWUCA) Recovery Strategy.

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

### 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>$0</td>
<td>$250,000</td>
<td>$0</td>
<td>$250,000</td>
</tr>
<tr>
<td>City of Bartow</td>
<td>$0</td>
<td>$250,000</td>
<td>$0</td>
<td>$250,000</td>
</tr>
<tr>
<td>Total</td>
<td>$0</td>
<td>$500,000</td>
<td>$0</td>
<td>$500,000</td>
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</tbody>
</table>
**Description**

Feasibility study to evaluate nutrient reduction sediment treatment options to improve water quality in Crystal Lake. A previous study showed that sediment cycling contributes over 90 percent of the phosphorus load to the lake. The feasibility study will evaluate options to reduce the phosphorus flux from the sediments to improve water quality. The study will include at least one additional lake to expand the study for application to other lakes.

**Measurable Benefit:**
The contractual Measurable Benefit will be the completion of the study.

**Costs:**
- Total Project Cost: $200,000 (Study)
  - City of Lakeland: $100,000
  - District: $100,000

**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 the feasibility study to identify cost effective water quality improvement options.
- **Cost Effectiveness:** High
  - The cost effectiveness for this study is comparable to past projects.
- **Past Performance:** High
  - 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:** Medium
  - Project is ready to begin on or before March 1, 2021.

**Strategic Goals**

- **Strategic Goals:** Medium
  - 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.

**Overall Ranking and Recommendation**

Fund as High Priority.

This feasibility study will evaluate water quality improvement alternatives to achieve nutrient load reductions for Crystal Lake and will provide data that can be applied to other lakes in the Peace River watershed. The Governor's Executive Order 19-12 instructs the five water management districts to prioritize funding to focus on projects that will address harmful algal blooms and maximize nutrient reductions. This project is consistent with that directive and the project ranking was elevated to high.

**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>$0</td>
<td>$100,000</td>
<td>$0</td>
<td>$100,000</td>
</tr>
<tr>
<td>City of Lakeland</td>
<td>$0</td>
<td>$100,000</td>
<td>$0</td>
<td>$100,000</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>$0</td>
<td>$200,000</td>
<td>$0</td>
<td>$200,000</td>
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</tbody>
</table>
**Project No. Q184**  
**Projects Overview**

**Brackish – Polk Regional Water Cooperative Southeast Wellfield Implementation**

**PRWC**

**Risk Level:** Type 2

**Multi-Year Contract:** Yes, Year 1 of 7

### Description

**Description:** This funding request is for the final design, permitting, and construction of the Southeast Wellfield Water Treatment Facility. Project components include a reverse osmosis facility and brackish water wellfield located east of Lake Wales. The request includes the first two construction phases of the Southeast Wellfield projects with planned completion in 2023 and 2027 respectively. The project will provide alternative water supply for participating members of the Polk Regional Water Cooperative, which will be delivered by a regional transmission system developed as a companion project (Q216), and builds upon the conceptual and preliminary design funded under project N905.

**Measurable Benefit:** The contractual Measurable Benefit will be an alternative supply project providing 12.5 mgd for use by PRWC project partners to reduce stress on the Upper Floridan aquifer.

**Costs:** Total conceptual project cost: $180,493,000 (final design, permitting, and construction)

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<td>166,993,000</td>
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</tr>
</tbody>
</table>

*Conceptual cost estimate, subject to Governing Board Approval*
**Risk Level:** Type 1  
**Multi-Year Contract:** No

### Description

This project will make available financial incentives and services to utility customers within the Polk Regional Water Cooperative (PRWC) service areas for four conservation activities including: toilet/urinal rebates, irrigation evaluations, enhanced conservation kits, and watersense labeled evapotranspiration (ET) irrigation controllers. Previously co-funded conservation projects including: P920, P921, N948, and N971, have generally had low participation thus far due to a lack of program administration and outreach funding. This funding request includes program promotion, public outreach, and administrative costs to ensure the success of the prior co-funded projects (total of 2,099 implementations) as well as this project (total of 815 implementations). Should actual costs be less than anticipated, the Cooperator may perform more rebates and services as the availability of funds allow. PRWC member governments are collaborating with PRWC 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 cost:** $168,710  
  - **PRWC:** $84,355  
  - **District:** $84,355

### 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 benefit of this project is the conservation of approximately 23,300 gallons per day (gpd) in the SWUC A and CFWI. Additionally, there is increased capability to achieve water savings associated with previously co-funded conservation projects which amounts to 147,135 gpd.

- **Cost Effectiveness:** High  
  - As a stand-alone project the cost effectiveness is $3.06 per thousand gallons (kgal) saved, which results in a medium ranking (between $3.00 and $6.00 per kgal). When combined with previously co-funded projects, cost effectiveness of the comprehensive program is high ($1.50 per kgal).

- **Past Performance:** High  
  - Based upon an assessment of the schedule and budget for the 10 ongoing projects.

- **Complementary Efforts:** High  
  - The PRWC encourages and supports water conservation amongst its member governments.

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

### Strategic Goals

- **Strategic Goals:** High  
  - **Strategic Initiative - Conservation:** Enhance efficiencies in all water-use sectors to ensure beneficial use.  
  - **Heartland Region Priority:** Implement Southern Water Use Caution Area (SWUCA) Recovery Strategy.

### Overall Ranking and Recommendation

- **Fund as High Priority.**  
  - Project will conserve potable water supply in the SWUCA and CFWI and is cost effective. This project will allow uninterrupted implementation of PRWC’s Demand Management Plan (co-funded project Q023).

### Funding

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<th>Funding Source</th>
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</table>
### Study – Winter Haven Direct Potable Reuse Feasibility

**Risk Level:** Type 2  
**Multi-Year Contract:** No  
**Project No.** Q200  
**Winter Haven**  
**Study:** Winter Haven Direct Potable Reuse Feasibility  
**Description:** A direct potable reuse (DPR) feasibility study to provide information on the potential future development of a DPR project for new potable water supply. The project will include data collection and laboratory services necessary to determine the quantity and quality of water sources. Source water characterization will include regulated, unregulated and emerging constituents. The study will also include a desktop evaluation and costing of available advanced treatment technologies for reclaimed water.

**Measurable Benefit:** The contractual Measurable Benefit will include the completion of a feasibility study to determine the quantity and quality of sources and the conceptual costing of treating reclaimed water for new potable water supplies within the Central Florida Water Initiative (CFWI) area.

**Costs:** Total project cost: $200,000 (Feasibility); Winter Haven: $100,000; District: $100,000, all requested in FY2021.

### Evaluation

<table>
<thead>
<tr>
<th>Application Quality</th>
<th>Medium</th>
<th>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.</th>
</tr>
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<tbody>
<tr>
<td>Project Benefit</td>
<td>High</td>
<td>The benefit is the completion of a feasibility study to determine the quantity and quality of sources and the conceptual costing of treating reclaimed water for new potable water supplies.</td>
</tr>
<tr>
<td>Cost Effectiveness</td>
<td>High</td>
<td>The costs are consistent with the range of costs for similarly funded District reclaimed recharge and indirect potable reuse studies.</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 5 ongoing projects.</td>
</tr>
<tr>
<td>Complementary Efforts</td>
<td>High</td>
<td>The Cooperator has a program in place that includes metering and an incentivized based reuse rate structure for high volume users, and has proactive reclaimed expansion policies which maximize utilization and environmental benefits.</td>
</tr>
<tr>
<td>Project Readiness</td>
<td>High</td>
<td>The project is ready to begin on or before December 1, 2020.</td>
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### Strategic Goals

<table>
<thead>
<tr>
<th>Strategic Goals</th>
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<tr>
<td>Strategic Initiative - Alternative Water Supplies: Increase development of alternative sources of water to ensure groundwater and surface water sustainability.</td>
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<tr>
<td>Strategic Initiative - Reclaimed Water: Maximize beneficial use of reclaimed water to reduce demand on traditional water supplies.</td>
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</tr>
<tr>
<td>Heartland Region Priority: Implement Southern Water Use Caution Area (SWUCA) Recovery Strategy.</td>
<td></td>
</tr>
<tr>
<td>Heartland Region Priority: Improve Winter Haven Chain of Lakes and Ridge Lakes</td>
<td></td>
</tr>
</tbody>
</table>

### Overall Ranking and Recommendation

Fund as High Priority. The project is recommended for funding, as it will provide valuable information necessary for the potential development of a future potable reuse option. Future full scale potable reuse projects will be considered AWS and must meet the Governing Board’s Cooperative Funding Initiative Policy which supports multi-jurisdictional development of alternative water supplies.

### Funding

<table>
<thead>
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**Project No. Q203**

**Polk County Natural Resources**

**Study – Lake Annie Surface Water Restoration**

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

### Description

**Description:** A feasibility study investigating the diversion of water from the Peace Creek Canal to a series of previously excavated areas for wetland habitat restoration and water quality improvement for Lake Annie. The project will quantify benefits and develop cost estimates.

**Measurable Benefit:** The contractual Measurable Benefit will be the completion of the study.

**Costs:**
- Total Project Cost: $268,000 (Study)
- Polk County: $134,000
- District: $134,000

### Evaluation

<table>
<thead>
<tr>
<th>Application Quality</th>
<th>High</th>
<th>Application included all the required information identified in the CFI Guidelines.</th>
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<tr>
<td>Project Benefit</td>
<td>High</td>
<td>The Resource Benefit of the project is the feasibility study investigating wetland habitat restoration and water quality improvement for Lake Annie.</td>
</tr>
<tr>
<td>Cost Effectiveness</td>
<td>High</td>
<td>The cost effectiveness for this study is comparable to similar projects.</td>
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<tr>
<td>Past Performance</td>
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<td>Based upon an assessment of the schedule and budget for the 7 ongoing projects.</td>
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<tr>
<td>Complementary Efforts</td>
<td>High</td>
<td>Applicant has an Environmentally Sensitive Land Purchase Programs, Adopt a Road Program, maintains &quot;nature parks&quot; and &quot;open space&quot;, and has other complementary efforts that preserve or restore natural systems.</td>
</tr>
<tr>
<td>Project Readiness</td>
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<td>The project is ready to begin on or before December 1, 2020.</td>
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### Strategic Goals

<table>
<thead>
<tr>
<th>Strategic Goals</th>
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<tr>
<td>Strategic Initiative - Water Quality Assessment and Planning</td>
<td>Collect and analyze data to determine local and regional water quality status and trends to support resource management decisions and restoration initiatives.</td>
</tr>
<tr>
<td>Strategic Initiative - Conservation and Restoration</td>
<td>Restoration and maintenance of natural ecosystem for the benefit of water and water-related resources.</td>
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</table>

### Overall Ranking and Recommendation

Fund as High Priority.

This project will assess the feasibility of diverting water from the Peace Creek Canal to improve Lake Annie’s water quality and natural systems. This project has been coordinated with the Polk Regional Water Cooperative and their Peace Creek Canal Integrated Water Supply Plan (N928) to ensure the projects do not overlap.

### Funding

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Project No. Q209

Study-Polk Co. Direct Potable Reuse Feasibility and Pilot Demonstration Project

Polk County Utilities

Description

A direct potable reuse (DPR) feasibility study and 29,000 gpd educational/testing pilot project by Polk County to test the development of a future DPR project for new potable water supply. The project will include data collection, laboratory services, design, permitting, construction and demonstration testing involving a field scale investigation of the advanced treatment of reclaimed water as well as at least one year of education and testing.

Measurable Benefit:
The contractual Measurable Benefit will include the completion of a feasibility study and pilot scale 29,000 gpd DPR treatment and educational/testing facility within the Central Florida Water Initiative (CFWI) area.

Costs:
Total project cost: $1,590,000 (Feasibility and Pilot);
Polk County: $795,000;
District: $795,000, with all 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 project benefit is the completion of a feasibility study and construction of a 29,000 gpd pilot facility to evaluate potential technologies to treat excess Polk County reclaimed water for potable water supplies.

Cost Effectiveness: High
The costs are consistent with the range of costs for similar potable reuse studies co-funded by other Districts.

Past Performance: High
Based upon an assessment of the schedule and budget for the 7 ongoing projects.

Complementary Efforts: High
The Cooperator has a program in place that includes metering and an incentivized based reuse rate structure for high volume users, and has proactive reclaimed expansion policies which maximize utilization and environmental benefits.

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

Strategic Goals

Strategic Goals: High
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.

Overall Ranking and Recommendation

Fund as High Priority.
The project is recommended for funding as it will provide valuable data and educational opportunities to further the exploration of direct potable reuse as a future water supply. Future full scale potable reuse projects will be considered AWS and must meet the Governing Board’s Cooperative Funding Initiative Policy which supports multi-jurisdictional development of alternative water supplies.

Funding

<table>
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<tr>
<th>Funding Source</th>
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**Project No. Q216**

**Risk Level:**
- Type 2

**Multi-Year Contract:**
- Yes, Year 1 of 3

### Description

**Description:**
This funding request is for the final design, permitting, and construction of the Southeast Wellfield Regional Transmission System, Phase 1. Project components include approximately 43 miles of pipeline extending from the Southeast Wellfield Water Treatment Facility located east of Lake Wales to multiple municipalities along the US-27 corridor. A future phase will extend to municipalities near the Hwy-60 corridor. This project will deliver alternative water supply to members of the Polk Regional Water Cooperative, which will be developed through a companion project, the Southeast Wellfield Implementation Project (Q184), and builds upon the conceptual and preliminary design funded under project N905.

**Measurable Benefit:**
The contractual Measurable Benefit will be the construction of a regional transmission system capable of delivering 7.5 mgd of alternative water supplies and allowing future expansions, promoting regional resource management efforts, and supporting water supply goals within the SWUCA.

**Costs:**
- Total Conceptual Project Cost: $106,088,300 (final design, permitting, and construction)
  - PRWC: $53,044,150
  - District: $53,044,150 with $4,950,000 requested in FY2021 and $48,094,150 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:**
- High
  - Substantial resource benefit expected from the transmission of regional alternative water supply to reduce stress on the Upper Floridan aquifer, lakes, and wetlands.

**Cost Effectiveness:**
- Medium
  - The cost effectiveness is in the medium range of typical regional transmission projects based on staff evaluation of itemized component costs by pipe diameters, terrain types, and construction methods.

**Past Performance:**
- High
  - Based upon an assessment of the schedule and budget for the 10 ongoing projects.

**Complementary Efforts:**
- High
  - Applicant will provide wholesale alternative water supplies to participating PRWC Members.

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

### Strategic Goals

**High**
- **Strategic Initiative - Alternative Water Supplies:** Increase development of alternative sources of water to ensure groundwater and surface water sustainability.
- **Heartland Region Priority:** Implement Southern Water Use Caution Area (SWUCA) Recovery Strategy.

### Overall Ranking and Recommendation

**Fund as High Priority.**
The Regional Transmission System Southeast Phase 1 project has an anticipated total cost of $106,088,300 with $4,950,000 requested in FY2021. The related Southeast Wellfield Implementation project (Q184) is necessary to provide water to the transmission system and has an anticipated total cost of $180,493,000 with $6,750,000 requested in FY2021. The third-party review of preliminary design will be performed under project N905 by February 2021. Contractually, the PRWC will need Governing Board approval to proceed with this project after the 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 recommend FY2021 funding for design.

### Funding

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<td>PRWC</td>
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*Conceptual cost estimate, subject to Governing Board Approval
**Description**

A feasibility study to identify opportunities to improve water quality, provide flood protection, and restore natural systems in the Lake Lulu watershed, which is one of the Winter Haven Chain of Lakes, a SWIM priority water body.

**Measurable Benefit:**

The contractual Measurable Benefit will be the completion of the study.

**Costs:**

Total project cost: $160,000 (Study)
- Polk County: $80,000
- District: $80,000

**Evaluation**

<table>
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<tr>
<th>Application Quality</th>
<th>Medium</th>
<th>Application included most of the required information identified in the CFI Guidelines. District PM had to work with cooperator to obtain remaining required information.</th>
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</thead>
<tbody>
<tr>
<td>Project Benefit</td>
<td>High</td>
<td>The Resource Benefit of the project is the assessment of opportunities to improve Lake Lulu within the Winter Haven Chain of Lakes, a SWIM priority water body, including water quality, flood protection, and natural systems enhancement/restore.</td>
</tr>
<tr>
<td>Cost Effectiveness</td>
<td>High</td>
<td>The cost effectiveness for this study is comparable to past projects.</td>
</tr>
<tr>
<td>Past Performance</td>
<td>High</td>
<td>Based upon an assessment of the schedule and budget for the 7 ongoing projects.</td>
</tr>
<tr>
<td>Complementary Efforts</td>
<td>High</td>
<td>Applicant has an Environmentally Sensitive Land Purchase Program, Adopt a Road Program, maintains &quot;nature parks&quot; and &quot;open space&quot;, and has other complementary efforts that preserve or restore natural systems.</td>
</tr>
<tr>
<td>Project Readiness</td>
<td>High</td>
<td>This project is ready to begin on or before December 1, 2020.</td>
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</table>

**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.
- **Heartland Region Priority:** Improve Winter Haven Chain of Lakes and Ridge Lakes

**Funding**

<table>
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<th>Funding Source</th>
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</table>
**Project No.** Q176  
**Study – Winter Haven/Upper Peace Creek Watershed Optimization Model**  
**Winter Haven**  
**FY2021**

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

### Description
- **Development of an integrated surface and groundwater planning model for the Upper Peace Creek watershed. The model will incorporate economic, social and environmental considerations to develop options for flood mitigation, water supply and natural system enhancements.**

### Measurable Benefit
- **The contractual measurable benefit is the completion of an integrated optimization model addressing water and related resources for the Winter Haven lakes, Ridge lakes, Upper Peace Creek and the Peace River.**

### Costs
- **Total project cost:** $750,000  
  - **Winter Haven cost:** $375,000  
  - **District cost:** $375,000; with $225,000 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:** Medium  
  - The project is a planning and modeling project to address improvement of flood protection, enhancement of natural systems, water supply and economic development. The resource benefits and costs will be clearly defined for each proposed project.
- **Cost Effectiveness:** Medium  
  - The cost of this project is similar to other projects of similar scope.
- **Past Performance:** Medium  
  - Based upon an assessment of the schedule and budget for the 5 ongoing projects.
- **Complementary Efforts:** High  
  - The applicant has four or more complementary efforts in the areas of water supply, flood protection and natural systems.
- **Project Readiness:** High  
  - Project is ready to begin on December 1, 2020.

### Strategic Goals
- **High**
- **Strategic Initiative - Alternative Water Supplies:** Increase development of alternative sources of water to ensure groundwater and surface water sustainability.
- **Strategic Initiative - Conservation and Restoration:** Restoration and maintenance of natural ecosystem for the benefit of water and water-related resources.
- **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.
- **Heartland Region Priority:** Implement Southern Water Use Caution Area (SWUCA) Recovery Strategy.

### Overall Ranking and Recommendation
- **Fund as Medium Priority.**
  - This study will develop an integrated planning model for the Upper Peace Creek watershed that will result in project options for reduced groundwater use in the SWUCA, flood protection improvements, and natural system restoration. Specific benefits will be provided as a part of the project option analysis.

### Funding

<table>
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<th>Funding Source</th>
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</table>
**Project No. Q177**

**Reclaimed - Winter Haven Southern Basin Aquifer Recharge**

**Winter Haven**

**Risk Level:** Type 3  
**Multi-Year Contract:** Yes, 1 of 5

**Description**

**Description:** Design, permitting, and construction of the Winter Haven Southern Basin Aquifer Recharge Project to indirectly recharge a minimum of 400,000 gpd calculated using a 5-year moving average of reclaimed water delivered by the City of Winter Haven Wastewater Treatment Plant No. 3. This project will be constructed in accordance with results of the current site testing feasibility study (N796) in conjunction with a cooperative owner/development partnership within the Harmony on Lake Eloise Development. The FY2021 funding is to complete preliminary design.

**Measurable Benefit:** The contractual Measurable Benefit is the design, permitting and construction of the indirect aquifer recharge system that will operate for 20 years and will recharge a minimum of 400,000 gpd calculated using a 5-year moving average. Construction will be done in accordance with permitting plans.

**Costs:** Total project cost: $4,000,000 (design, permitting and construction)  
City of Winter Haven: $2,000,000  
District: $2,000,000 with, $250,000 requested in FY2021, and $1,750,000 anticipated to be requested in future years to complete design, permitting and construction.

**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 benefit of this project is to indirectly recharge reclaimed water currently discharged to the Peace Creek Canal to improve groundwater levels in the SWUCA and potentially lake levels in Winter Haven. If constructed, the project will recharge a minimum 400,000 gpd calculated using a 5-year moving average of reclaimed water provided by Winter Haven’s Wastewater Treatment Plant No. 3 at the Harmony on Lake Eloise Development property.

**Cost Effectiveness:** Medium  
The capital cost for this project is $10.00 per gpd of water recharged into the surficial aquifer compared to the $10 - $15 range for Total Capital Cost per gpd of water resource benefit.

**Past Performance:** Medium  
Based upon an assessment of the schedule and budget for the 5 ongoing projects.

**Complementary Efforts:** High  
Programs include metering and an incentive-based reuse rate structure for high volume water users and has proactive reclaimed expansion policies which maximize utilization and environmental benefits.

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

**Strategic Goals**

**Strategic Goals:** High  
**Strategic Initiative - Reclaimed Water:** Maximize beneficial use of reclaimed water to reduce demand on traditional water supplies.  
**Heartland Region Priority:** Improve Winter Haven Chain of Lakes and Ridge Lakes

**Overall Ranking and Recommendation**

**Fund as Medium Priority.** If constructed, this project will lead to efficient use of available reclaimed water to benefit the water resource in the Winter Haven area. The City will not be eligible for reimbursement unless it obtains an executed agreement with the Harmony on Lake Eloise Development landowner that allows the City to construct and operate the project consistent with the objectives of the measurable benefit.

**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>City of Winter Haven</td>
<td>$0</td>
<td>$250,000</td>
<td>$1,750,000</td>
<td>$2,000,000</td>
</tr>
<tr>
<td>District</td>
<td>$0</td>
<td>$250,000</td>
<td>$1,750,000</td>
<td>$2,000,000</td>
</tr>
<tr>
<td>Total</td>
<td>$0</td>
<td>$500,000</td>
<td>$3,500,000</td>
<td>$4,000,000</td>
</tr>
</tbody>
</table>
Project No. Q181 | WMP – Highlands Hammock State Park/Little Charlie Bowlegs WMP
---|---
Type 4 | Multi-Year Contract:
Yes, Year 1 of 3

Description:
Complete a Watershed Management Plan (WMP) for the Little Charlie Bowlegs Watershed with an increased focus on Highlands Hammock State Park in Highlands and Hardee Counties. This study will include a Watershed Evaluation, Floodplain Analysis, Level of Service (LOS) Determination, Surface Water Resource Assessment (SWRA), and Best Management Practice (BMP) Alternatives Analysis with the goal of improving flood protection, water quality and/or natural systems. FY2021 funding will be used to begin the Watershed Evaluation.

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 concerns, and improves water quality and/or enhances natural systems in the watershed.

Costs:
Total Project cost: $540,000
FDEP: $270,000
District: $270,000 with $75,000 requested in FY2021 and $195,000 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 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. Resource benefit is set to medium to reflect that nearly half of the watershed is within the State Park.

Cost Effectiveness: High
Project cost per square mile is in the low range of historic costs (under $14,100/sq mi) for WMPs completed in rural watersheds.

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

Complementary Efforts: High
Cooperator is a state agency and does not participate in the Community Rating System.

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

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

Overall Ranking and Recommendation
Fund as Medium Priority.
This project identifies flood risk and develops improvement plans in an area that does not have a flood risk model. The study includes the Highlands Hammock State Park and the surrounding watershed. The resulting product will be utilized for flood zone determination, to help implement solutions that alleviate flood risk, improve water quality, and/or enhance natural systems.

Funding
<table>
<thead>
<tr>
<th>Funding Source</th>
<th>Prior</th>
<th>FY2021</th>
<th>Future</th>
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<tbody>
<tr>
<td>District</td>
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<tr>
<td>Florida Park Service</td>
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<td>$540,000</td>
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</table>
**Project No. Q164**

<table>
<thead>
<tr>
<th>Description</th>
<th>Construction of water quality BMPs to reduce sediment loading to Crooked Lake. The source of the sediments is an unpaved County-maintained road with no stormwater infrastructure. The County plans to acquire land for construction of the project.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measurable Benefit</td>
<td>The contractual Measurable Benefit is the construction of water quality BMPs to treat an approximate 10-acre drainage area discharging to Crooked Lake. Construction will be in accordance with the permitted plans. There will be no monitoring or testing requirements.</td>
</tr>
</tbody>
</table>
| Costs | Total project cost: $910,000 (Land acquisition and construction)  
District: $455,000  
Polk County: $455,000 (includes $250,000 of land acquisition costs as funding match) |

### Evaluation

<table>
<thead>
<tr>
<th>Application Quality</th>
<th>Medium</th>
<th>Application included most of the required information identified in the CFI guidelines. District PM had to work with the cooperator to obtain remaining required information.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Benefit</td>
<td>Low</td>
<td>The Resource Benefit of the project is the reduction of pollutant loads to Crooked Lake by an estimated 7 lbs/yr TN and 1.9 lbs/yr TP.</td>
</tr>
<tr>
<td>Cost Effectiveness</td>
<td>Low</td>
<td>The estimated cost per pound is above the historical average of $475/lb TN and above the historical average of $4,152/lb TP.</td>
</tr>
<tr>
<td>Past Performance</td>
<td>High</td>
<td>Based upon an assessment of the schedule and budget for the 7 ongoing projects.</td>
</tr>
<tr>
<td>Complementary Efforts</td>
<td>High</td>
<td>Applicant has an active stormwater utility that collects fees.</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 Goals | - |

### Overall Ranking and Recommendation

Low Priority, not recommended for funding. The project is not recommended for funding as it has very low nutrient removal and is not cost effective.

### Funding

<table>
<thead>
<tr>
<th>Funding Source</th>
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<th>FY2021</th>
<th>Future</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>District</td>
<td>$0</td>
<td>$455,000</td>
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<tr>
<td>Polk County</td>
<td>$0</td>
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<tr>
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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.