

Your region, Your water, Your voice at the table



Polk Regional
Water Cooperative

PRWC Summit 2017

Value of Water to Polk County

Tuesday January 24, 2017

Presentation Goal

- Provide an understanding of your water quantity needs and discuss which priority projects have been identified to meet those needs



How Much Do You Have?

WATER FROM TRADITIONAL UPPER FLORIDAN AQUIFER SOURCES

Pumped by PRWC member
governments

68 MGD pumped historically

i.e. “CFWI 6% more”

+ 4 MGD more

72 MGD “Sustainable Yield”

Sustainable Yield ≠ Permitted Allocation



How Much Do You Need?

WATER FROM ALL SOURCES

Needs provided by You,
the member governments

118 MGD need, 2035

72 MGD available

46 MGD Deficit

How Much Do You Need?

| Combined Projects | 2035 Deficits | Cost Share |
|-------------------|---------------|----------------------|
| Participants | MGD | Percent of Total (%) |
| Auburndale | 3.29 | 7.07% |
| Bartow | 3.22 | 6.92% |
| Davenport | 0.43 | 0.92% |
| Dundee | 1.04 | 2.25% |
| Eagle Lake | 0.62 | 1.34% |
| Fort Meade | 0.26 | 0.55% |
| Frostproof | 0.19 | 0.42% |
| Haines City | 2.39 | 5.15% |
| Lake Alfred | 0.79 | 1.70% |
| Lake Hamilton | 0.02 | 0.05% |
| Lake Wales | 1.89 | 4.06% |

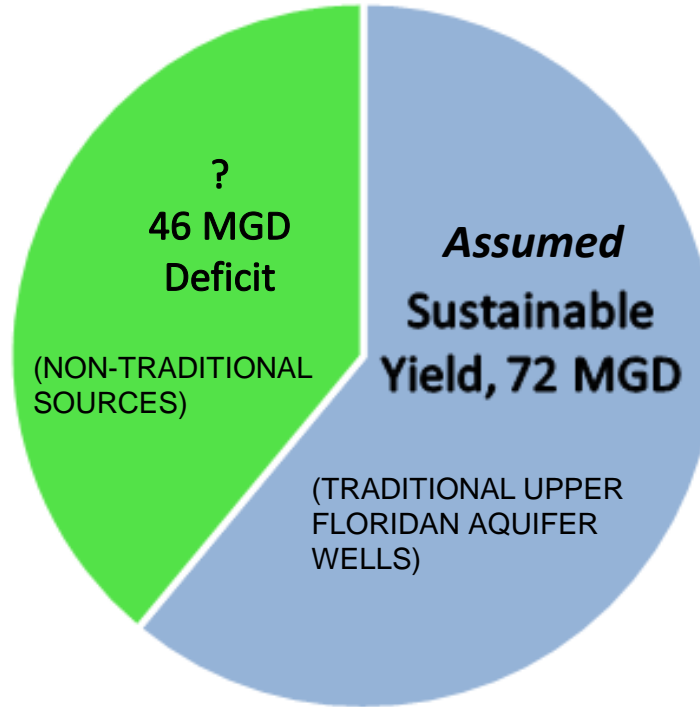


How Much Do You Need?

| Combined Projects Participants | 2035 Deficits MGD | Cost Share Percent of Total (%) |
|--|----------------------|------------------------------------|
| Lakeland | 11.63 | 25.00% |
| Mulberry, City of | 0.36 | 0.77% |
| Polk City, City of | 0.78 | 1.68% |
| Polk County Utilities - CRUSA | 0.79 | 1.70% |
| Polk County Utilities - ERUSA | 0.87 | 1.87% |
| Polk County Utilities – NERUSA (SWFWMD & SFWMD) | 7.29 | 15.68% |
| Polk County Utilities - NWRUSA | 2.27 | 4.87% |
| Polk County Utilities - SERUSA | 0.74 | 1.60% |
| Polk County Utilities - SWRUSA | 3.19 | 6.87% |
| Winter Haven, City of | 4.43 | 9.53% |
| TOTAL | 46.52 | 100.00% |

Your region, Your water, Your voice at the table

How Much Do You Need?



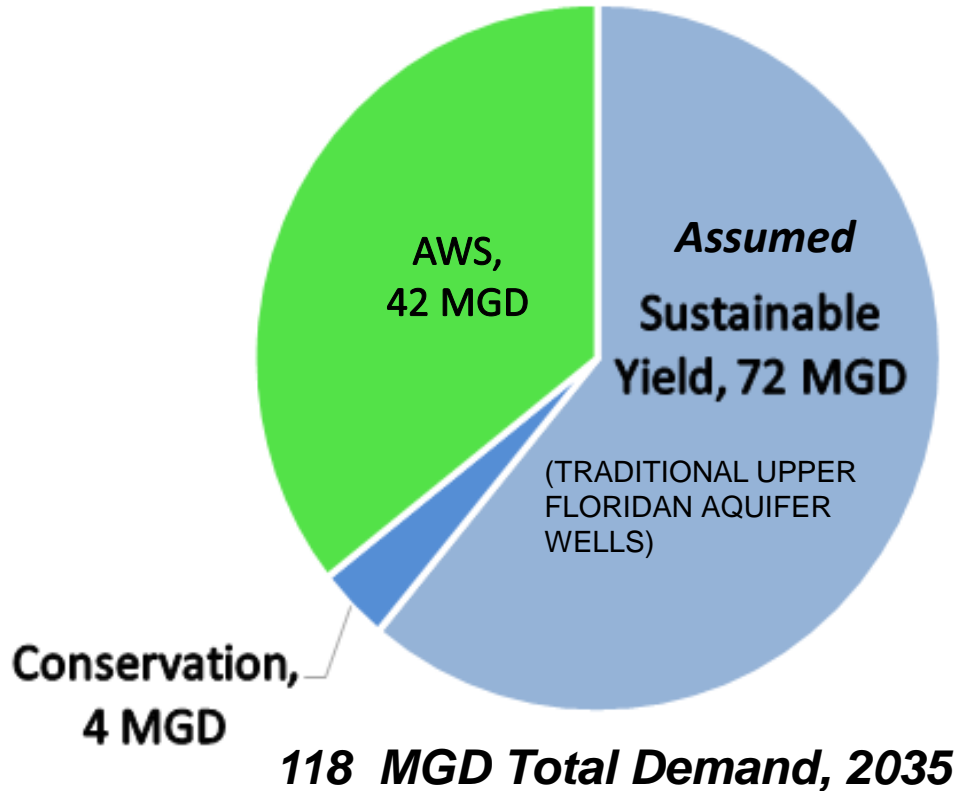
118 MGD Total Demand, 2035



How Do We Overcome the Deficit?

- **Reclaimed Water: 0-? MGD**
 - Needs further study beyond CFWI estimates
- **Conservation: 3-4 MGD**
 - Already a success story
 - Some member governments already have a very low per person per day use

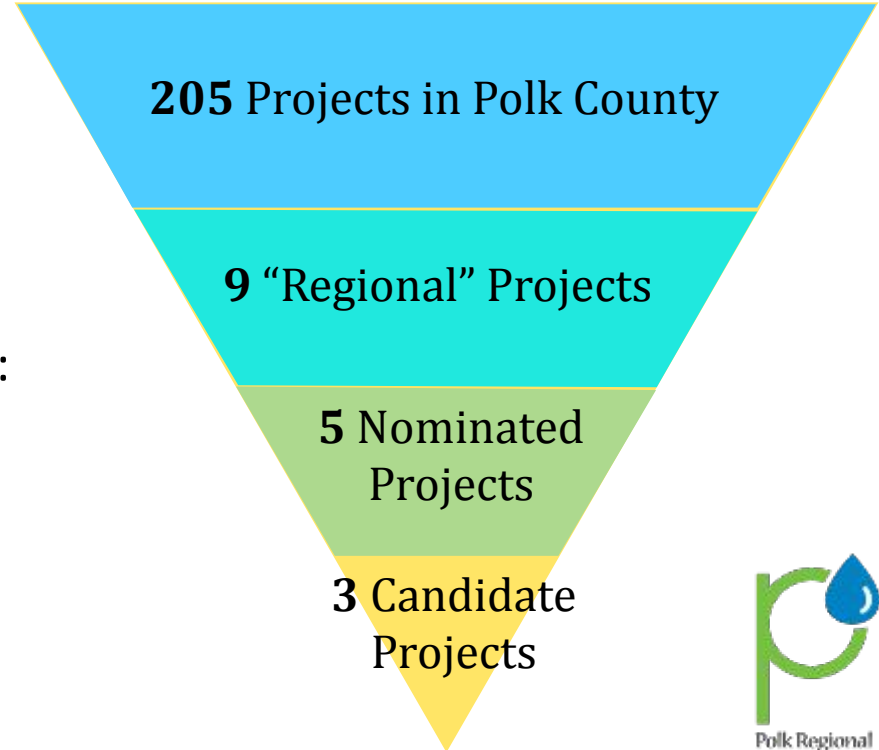
How Do We Overcome the Deficit?



What are Your Options?

NON-TRADITIONAL OR ALTERNATIVE WATER SUPPLY SOURCES

- Identified 205 possible projects
- Shortlisted to 9 based on:
 - Regional benefits
 - 30 MGD yield target (for cofunding)
- Scored by you, weighed by you based on:
 - Cost, location, yield, other factors
- Result: 5 Nominated projects
- **Today: 3 Candidate projects**





These Are The Projects You Selected...

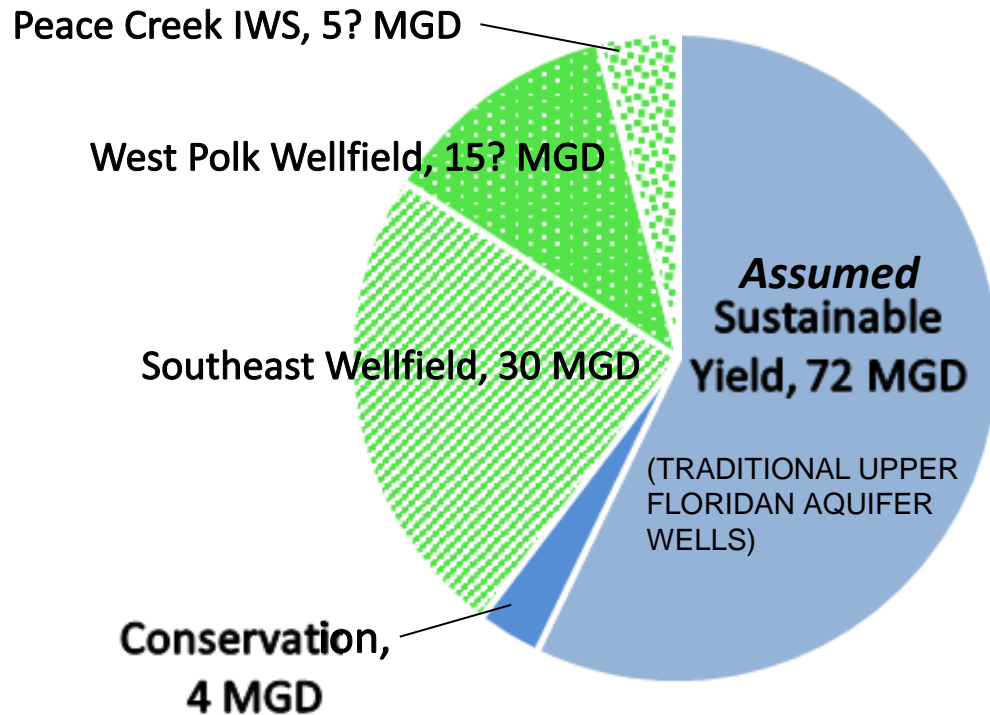
- West Polk County LFA Wellfield
- Southeast Wellfield
- Peace Creek Integrated Water Supply
- Peace River and Land Use Transitions
- Alafia River Basin



Candidate

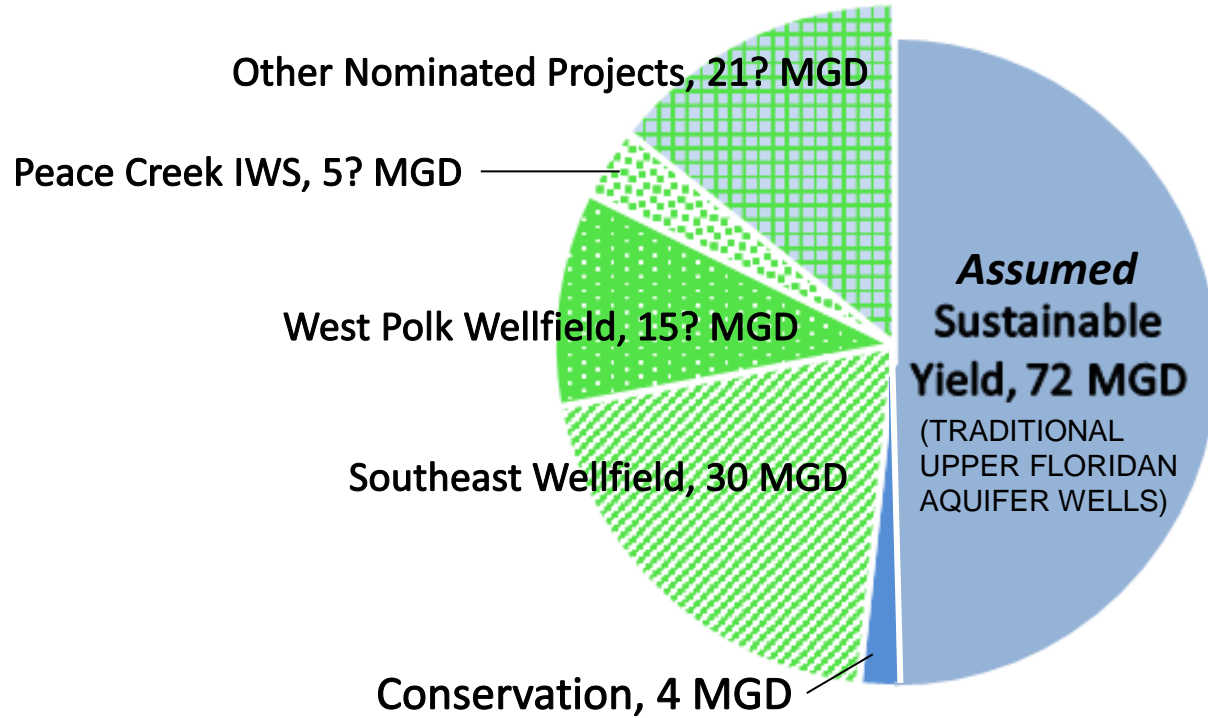


They May Complete Your Water Puzzle...



118 MGD Total Demand, 2035

...and Beyond



118 MGD Total Demand, 2035



What Are The Priority Projects?

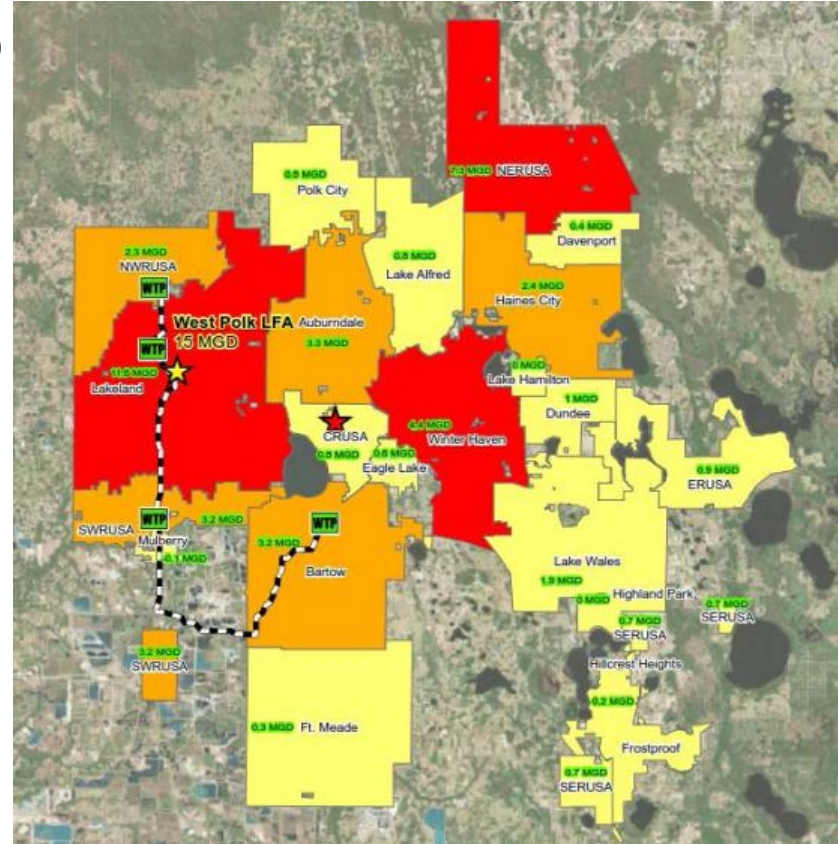
- West Polk County LFA Wellfield
- Southeast Wellfield
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Candidate

West Polk LFA Wellfield

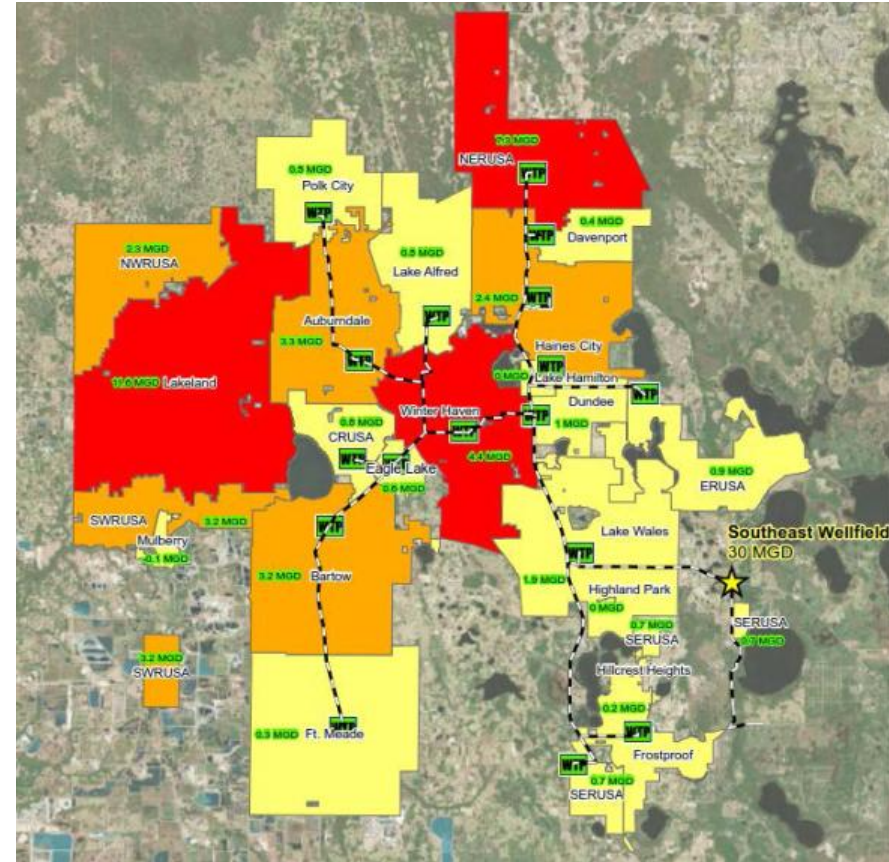
- Brackish, lower Floridan aquifer (LFA) groundwater supply
 - Wellfield
 - Advanced water treatment plant
 - Disposal wells
 - Finished water transmission
- Possible yield: 15 million gallons per day (MGD)





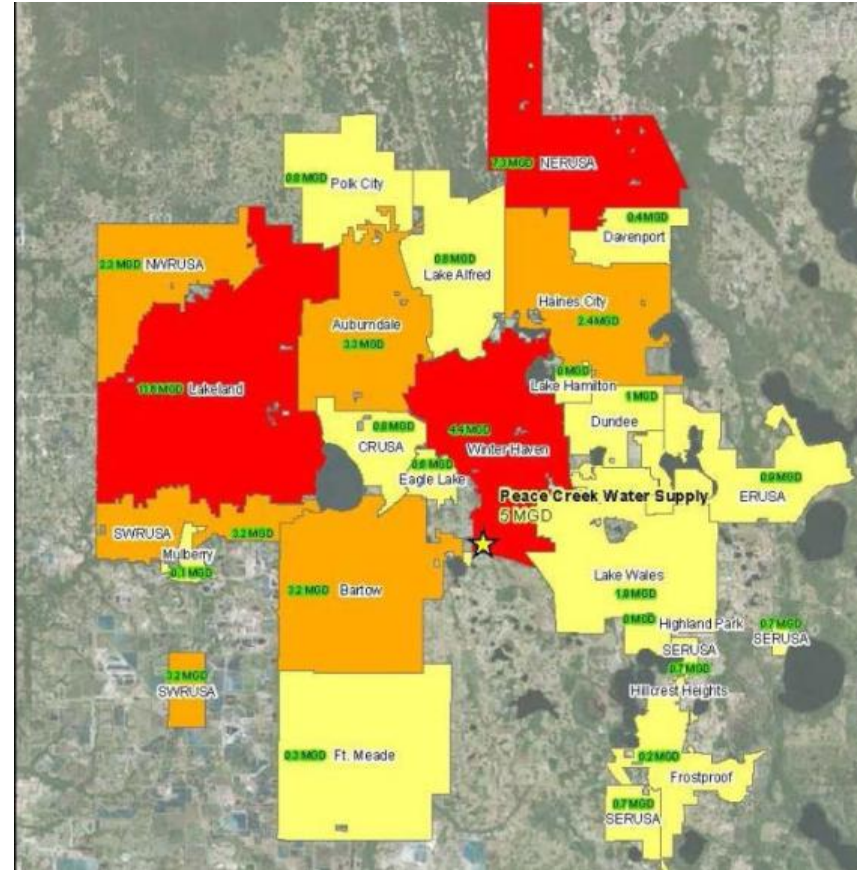
Southeast Wellfield

- Lower Floridan aquifer (LFA) groundwater supply
 - Wellfield
 - Advanced water treatment plant
 - Disposal wells
 - Raw and finished water transmission
- Permitted yield: 30 MGD



Peace Creek Integrated Water Supply

- Wetland rehydration/recharge project
 - Land acquisition
 - Land development regulation revisions
 - Drainage canal dams
 - Earthwork
- Possible yield: 5 MGD through groundwater offset (plus 5 MGD recharge benefit)





How Much Will It Cost?

- Phase 1: Feasibility (all projects)
 - West Polk LFA Wellfield...\$9,300,000
 - Southeast Wellfield...\$11,800,000
 - Peace Creek Integrated Water Supply...\$1,900,000
 - **GRAND TOTAL: \$23,000,000**
- Phase 2: Construction (selected projects)
 - West Polk LFA Wellfield...\$157,454,000
 - Southeast Wellfield...\$340,585,000
 - Peace Creek Integrated Water Supply...\$118,985,000
 - **GRAND TOTAL: \$617,024,000**



WRWSA

Special District Public Facilities Report

Roy Mazur P.E., AICP

WRA

Land Planning / Civil Engineering /
Environmental / Water Use





WRWSA

Special District Public Facilities Report

- Required by 189.08 FS – “to foster coordination between special districts and local governments”



FLORIDA DEPARTMENT of
ECONOMIC OPPORTUNITY

- Division of Community Development –
Special District Accountability Program





WRWSA

Special District Public Facilities Report

- Description of existing facilities owned or operated
- Description of facility being built / proposed to be expanded
- How the new facilities / expansions will be financed
- The anticipated time the construction will be completed.





WRWSA

Special District Public Facilities Report

- Due to local governments 12 months prior to submission of Evaluation and Appraisal Letter to Division of Community Development
 - Citrus County – Submit to Division of Community Development - July 2019
- Local government comprehensive plans – “special district public facilities report may be used and relied upon by the local government”
- Updated every 7 years (by Statute)





WRWSA

Special District Public Facilities Report

- WRA retained via Work Order to produce Draft by Sept 1, final due Sept 30.
- The Final Report will be a template, intended to be easily modified if new facilities come on line or are expanded in the future



ADD-ON ITEM

Chassahowitzka and Homosassa Rivers SWIM Plans Resolution

Mr. Richard Owen, WRWSA, will present this item.

The Southwest Florida Water Management District (SWFWMD) has completed its proposed Surface Water Improvement and Management (SWIM) Plans for the Chassahowitzka and Homosassa River systems. At its July 12, 2017 meeting, the Springs Coast Steering Committee, on which a number of member governments sit, recommended approval of these Plans. The SWFWMD Governing Board is scheduled to consider approval of the Plans at its August 29, 2017 meeting.

There are six SWIM priority waterbodies in the WRWSA four-county area. Waterbodies in the WRWSA region for which SWIM plans have been recently finalized include the Rainbow River, Crystal River / Kings Bay, and the Weeki Wachee river. The Chassahowitzka and Homosassa rivers are the fourth and fifth SWIM plans to be created or updated under the SWFWMD Springs Coast Initiative. The Lake Panasoffkee SWIM plan was last completed in 2000. The WRWSA Board has approved resolutions in support of prior SWIM plans to express its support to the SWFWMD Governing Board. These Plans are intended to guide not only the SWFWMD's future management actions, but also those actions of the many stakeholders involved, including many of the Authority's member governments.

Resolution 17-04, WRWSA Board of Directors Supports the Chassahowitzka and Homosassa Rivers SWIM Plans Prepared by the SWFWMD, is included as an exhibit to this item.

See Exhibit.

Staff Recommendation:

Approval of Resolution 17-04, Withlacoochee Regional Water Supply Authority Board of Directors Supports the Chassahowitzka and Homosassa Rivers Surface Water Improvement and Management Plans Prepared by the Southwest Florida Water Management District, as contained in the Exhibit.

DRAFT

WITHLACOOCHEE REGIONAL WATER SUPPLY AUTHORITY

RESOLUTION 2017-04

WITHLACOOCHEE REGIONAL WATER SUPPLY AUTHORITY BOARD OF DIRECTORS SUPPORTS THE CHASSAHOWITZKA AND HOMOSASSA RIVERS SWIM PLANS PREPARED BY THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

WHEREAS, the Chassahowitzka and Homosassa Rivers in western Citrus County are significant natural resources of the region and contribute freshwater flows to the estuaries within the coastal regions of the Gulf of Mexico; and

WHEREAS, both river systems are first-magnitude spring systems; and

WHEREAS, recognizing the need to place additional emphasis on restoration, protection, and management of the surface water resources of the State, the Florida Legislature, through the Surface Water Improvement and Management (SWIM) Act of 1987, directed the State's water management districts to "design and implement plans and programs for the improvement and management of surface water"; and

WHEREAS, the Chassahowitzka and Homosassa Rivers were named SWIM priority water bodies in 2014; and

WHEREAS, the Withlacoochee Regional Water Supply Authority (Authority) participated in the development of the Chassahowitzka and Homosassa Rivers SWIM plans within the framework of the Springs Coast Management Committee and appropriate representatives of its member governments participated in the Steering Committee and Technical Working Group; and

WHEREAS, the primary goal of these SWIM plans is to identify and implement management actions and projects that will address the major issues the systems face and that will restore, maintain and preserve the ecological balance of the rivers; and

WHEREAS, we recognize that one entity alone cannot do it all, the most important element of these plans is the consensus and partnerships that came together to ensure these plans take a much broader approach by identifying management actions and projects from a wide variety of stakeholders; and

WHEREAS, these plans are stakeholder developed, comprehensive plans for the restoration, protection and management of the Chassahowitzka and Homosassa rivers and are living documents with adaptive management at their core and as such, these plans will be revised periodically to assess overall progress in meeting the quantifiable objectives.

NOW, THEREFORE, BE IT RESOLVED by the Authority Board of Directors that the Authority hereby expresses its support for the Chassahowitzka and Homosassa Rivers SWIM plans and the Authority Board of Directors commends the diverse teams of the Springs Coast Steering Committee, and Management Committee, and Technical Working Group for the development of these plan and their commitment to the preservation of this unique treasure.

ADOPTED this nineteenth day of July 2017.

Attest:

**BOARD OF DIRECTORS, WITHLACOOCHEE
REGIONAL WATER SUPPLY AUTHORITY**

Richard S. Owen, Executive Director

BY _____
Michelle Stone, Vice Chair

Withlacoochee Regional Water Supply Authority
3600 W. Sovereign Path, Suite 228, Lecanto, Florida 34461

Bills For Payment
6/21/2017

| <u>Administrative Invoices</u> | <u>Invoice Number(s)</u> | <u>Invoice Date</u> | <u>Amount</u> |
|---|------------------------------|-------------------------|--------------------|
| Richard S. Owen, AICP, Executive Director | 2017-05 | 6/1/2017 | \$6,984.50 |
| Larry Haag, Attorney | 33084 33085 | 5/26/2017 | \$676.24 |
| Diane Salz, Governmental Affairs / Professional Fee | #053117 | 5/31/2017 | \$3,500.00 |
| Diane Salz, Governmental Affairs / Travel (Bd Mtg, Summer School) | May 2017 | 5/31/2017 | \$781.98 |
| C. LuAnne Stout, Administrative Assistant / Fee | 5-May-2017 | 6/5/2017 | \$3,125.00 |
| FL Dept of State FAR / cancel June mtg | 703701 | 5/23/2017 | \$38.78 |
| Karen Allen / Web Maint, 3 pages created | #87 | 6/13/2017 | \$162.50 |
| Sun Trust Business Card Statement | 6.2.2017 | 6/2/2017 | \$315.08 |
| Total Administrative Invoices | | | \$15,584.08 |

| <u>Water Supply Studies and Facilities</u> | <u>Contract/ Budget</u> | <u>Balance Remaining</u> | <u>Current Invoice(s)</u> |
|---|-----------------------------|------------------------------|-------------------------------|
| General Services Contract | \$75,000.00 | \$50,000.00 | |
| Work Order 17-01. Water Resource Associates | \$25,000.00 | \$23,899.35 | |
| FY2016-17 Water Conservation Grants Program | | | |
| Citrus County | \$36,875.00 | \$36,875.00 | |
| Hernando County | \$47,500.00 | \$47,500.00 | |
| Marion County | \$35,245.00 | \$35,245.00 | |
| Phase 3 Irrigation Program | \$3,500.00 | \$0.00 | |
| Phase 4 Irrigation Program | \$200,000.00 | \$172,144.26 | \$3,450.66 (1) |
| Total Project Invoices | \$423,120.00 | \$365,663.61 | \$3,450.66 |

| | |
|-------------------------------|--------------------|
| Total Bills to be Paid | \$19,034.74 |
|-------------------------------|--------------------|

| | | |
|--------------------------------------|--|--------------------|
| State Board of Administration | Transfer from SBA2 to SBA1 | \$3,450.66 |
| State Board of Administration | Transfer from SBA1 to SunTrust Bank | \$19,034.74 |

Notes:

(1) Phase 4 (N822) - Irrigation Audits

Jack Overdorff, ECO Land Design \$3,450.66 Invoice 275

Withlacoochee Regional Water Supply Authority
3600 W. Sovereign Path, Suite 228, Lecanto, Florida 34461

Bills For Payment
7/19/2017

| <u>Administrative Invoices</u> | <u>Invoice Number(s)</u> | <u>Invoice Date</u> | <u>Amount</u> |
|---|------------------------------|-------------------------|--------------------|
| Richard S. Owen, AICP, Executive Director | 2017-06 | 7/3/2017 | \$6,876.77 |
| Larry Haag, Attorney | 33138 | 6/29/2017 | \$30.00 |
| Diane Salz, Governmental Affairs / Professional Fee | #063017 | 6/30/2017 | \$3,500.00 |
| C. LuAnne Stout, Administrative Assistant | 6-Jun-2017 | 7/12/2017 | \$3,172.61 |
| Nick Nicholson (May Bd Mtg) | | 5/17/2017 | \$19.58 |
| Jeff Kinnard (May Bd Mtg) | | 5/17/2017 | \$11.13 |
| FL Dept of State FAR (cancel mtg, RFP GES) | 704192 | 6/13/2017] | \$81.34 |
| Karen Allen / Web Maint | #88 | 7/4/2017 | \$87.50 |
| Sun Trust Business Card Statement (GoDaddy) | 7.2.2017 | 7/2/2017 | \$237.24 |
| Total Administrative Invoices | | | \$14,016.17 |

| <u>Water Supply Studies and Facilities</u> | <u>Contract/ Budget</u> | <u>Balance Remaining</u> | <u>Current Invoice(s)</u> |
|---|-----------------------------|------------------------------|-------------------------------|
| General Services Contract | \$75,000.00 | \$50,000.00 | |
| Work Order 17-01. Water Resource Associates | \$25,000.00 | \$23,899.35 | |
| FY2016-17 Water Conservation Grants Program | | | |
| Citrus County | \$36,875.00 | \$36,875.00 | |
| Hernando County | \$47,500.00 | \$47,500.00 | |
| Marion County | \$35,245.00 | \$35,245.00 | |
| Phase 3 Irrigation Program | \$3,500.00 | \$0.00 | |
| Phase 4 Irrigation Program | \$200,000.00 | \$170,498.94 | \$1,645.32 (1) |
| Total Project Invoices | \$423,120.00 | \$364,018.29 | \$1,645.32 |

| | |
|-------------------------------|--------------------|
| Total Bills to be Paid | \$15,661.49 |
|-------------------------------|--------------------|

| | | |
|--------------------------------------|--|--------------------|
| State Board of Administration | Transfer from SBA2 to SBA1 | \$1,645.32 |
| State Board of Administration | Transfer from SBA1 to SunTrust Bank | \$15,661.49 |

Notes:

(1) Phase 4 (N822) - Irrigation Audits

| | | |
|---|-------------------|----------------------|
| Jack Overdorff, ECO Land Design | \$1,520.33 | Invoice 277 |
| C. LuAnne Stout (Marion Co envelopes/postage) | \$124.99 | Invoice 03-N822-2017 |
| | <u>\$1,645.32</u> | |